



Appendix A

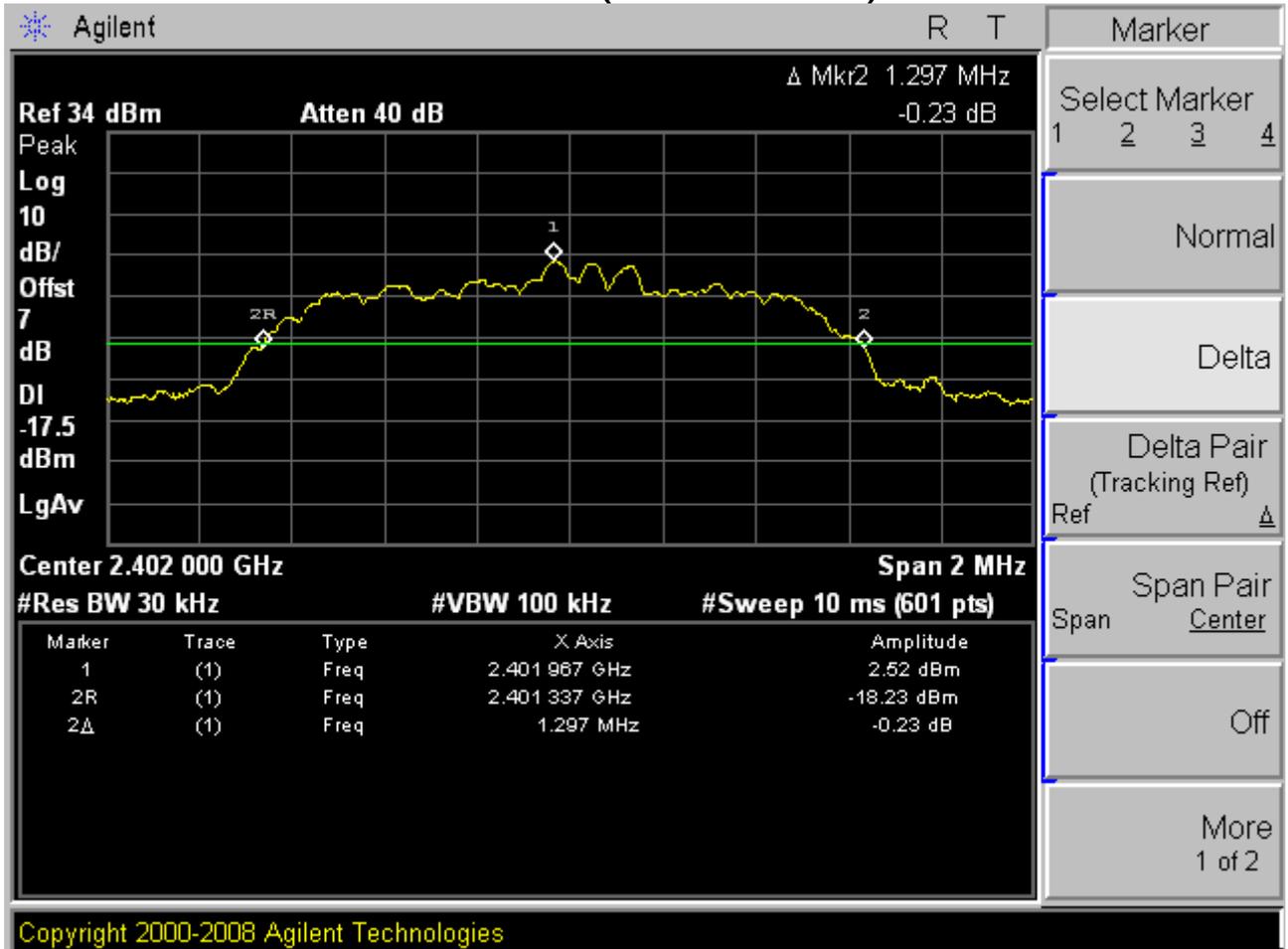
20dB bandwidth measurement

According to FCC Part 15.247 (a) (1)



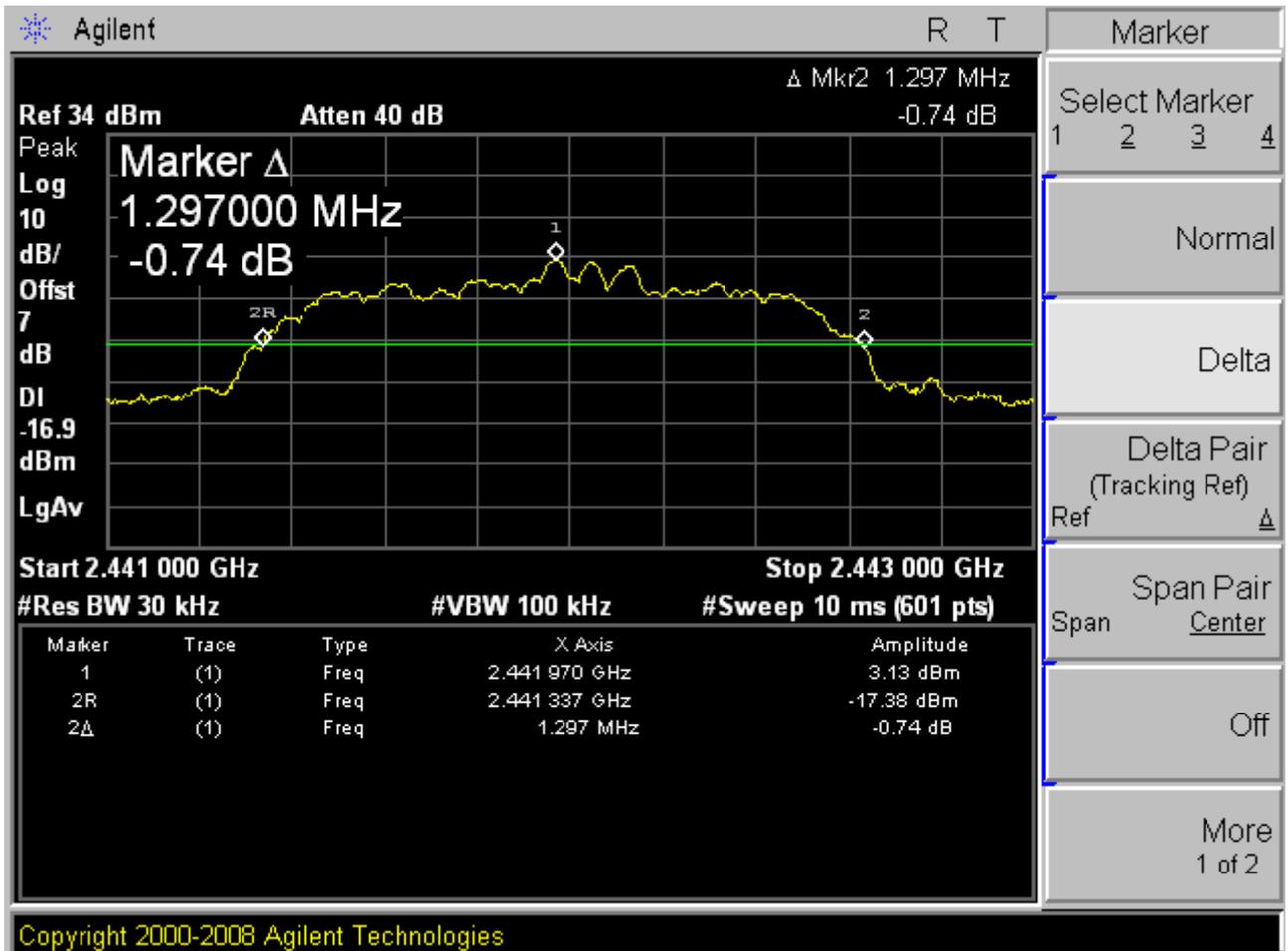
Modulation: $\pi/4$ -DQPSK

Channel 0 (2402MHz)



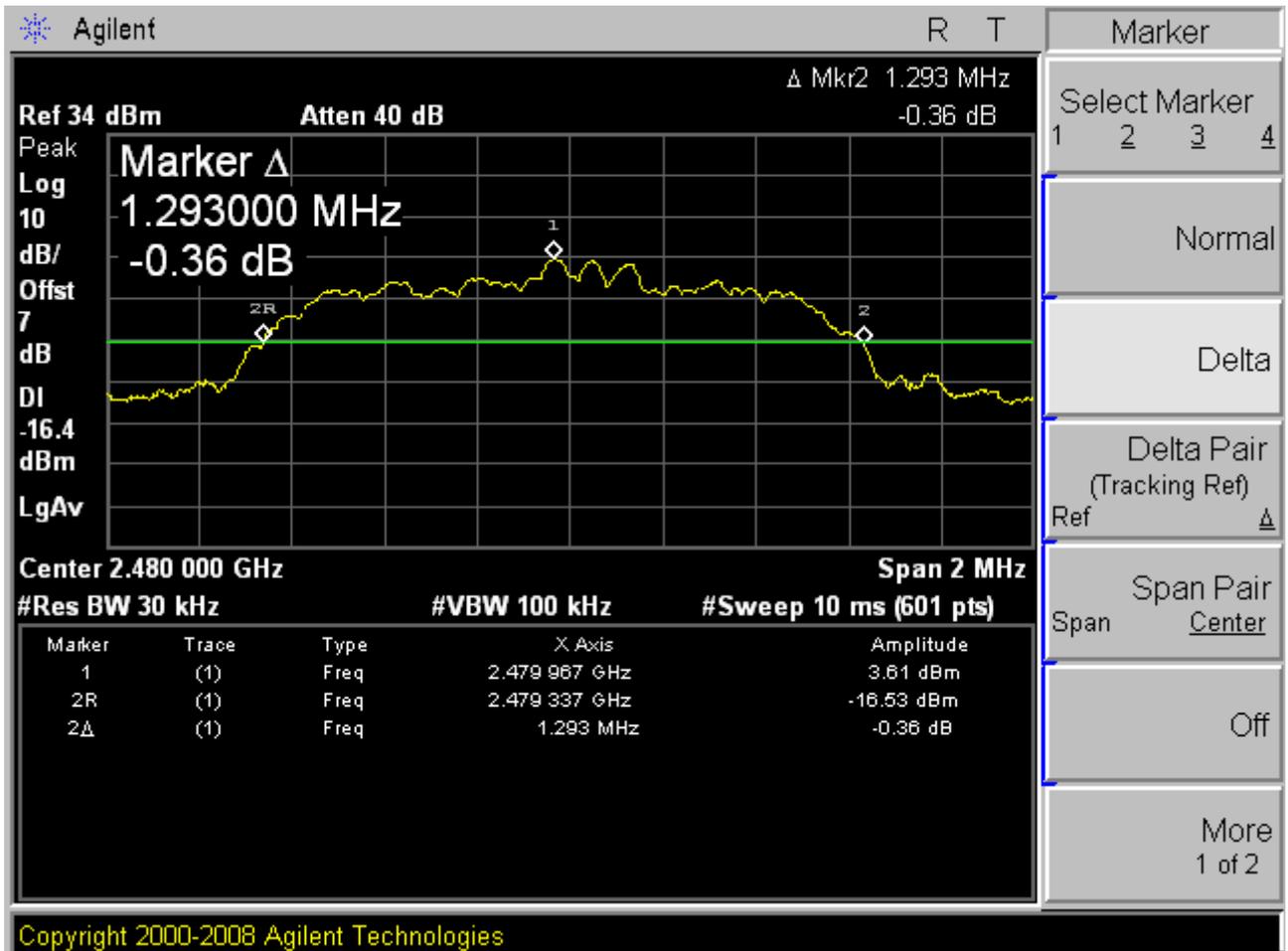


Channel 40 (2442MHz)





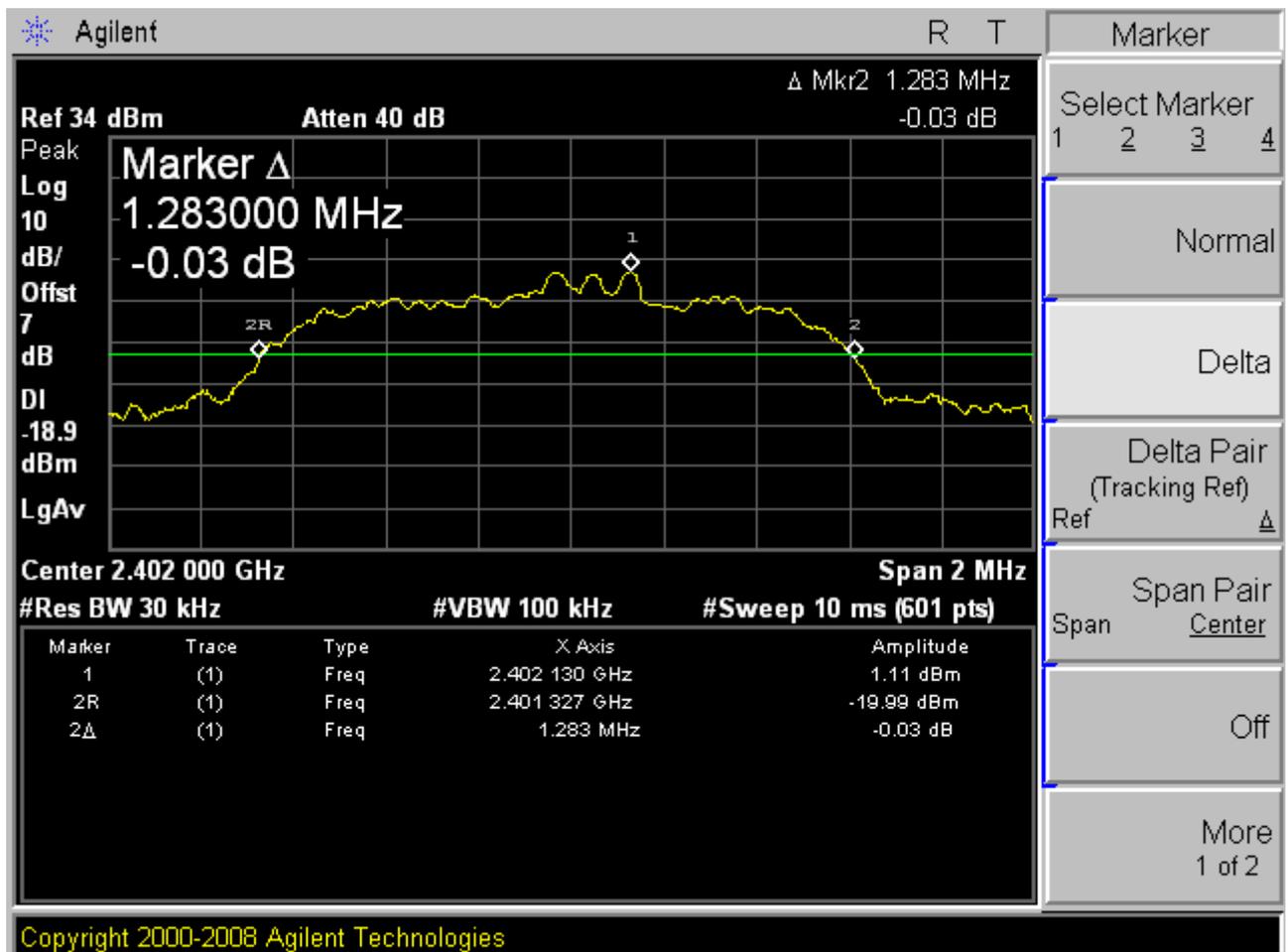
Channel 78 (2480MHz)





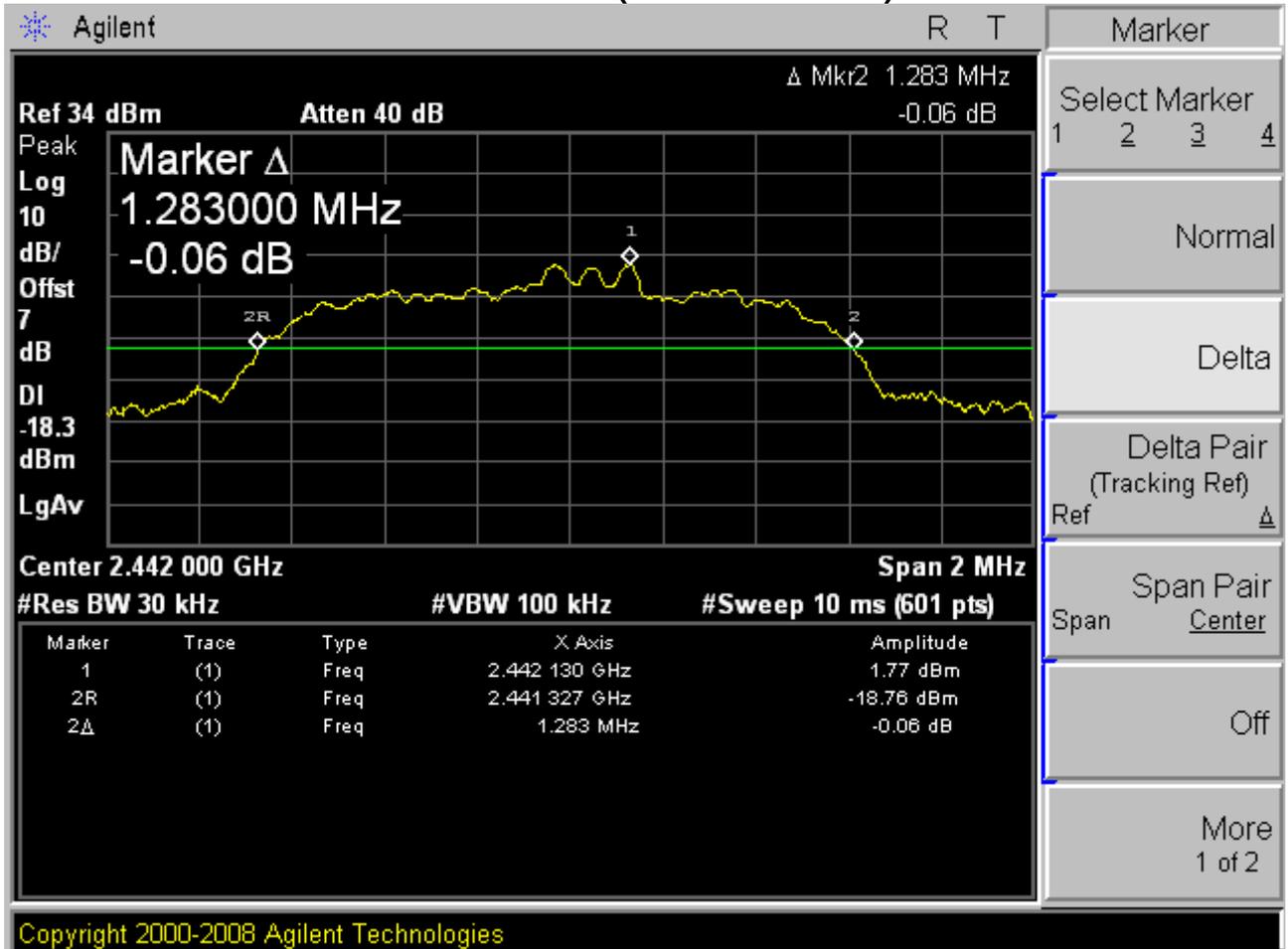
Modulation: 8DPSK

Channel 0 (2402MHz)



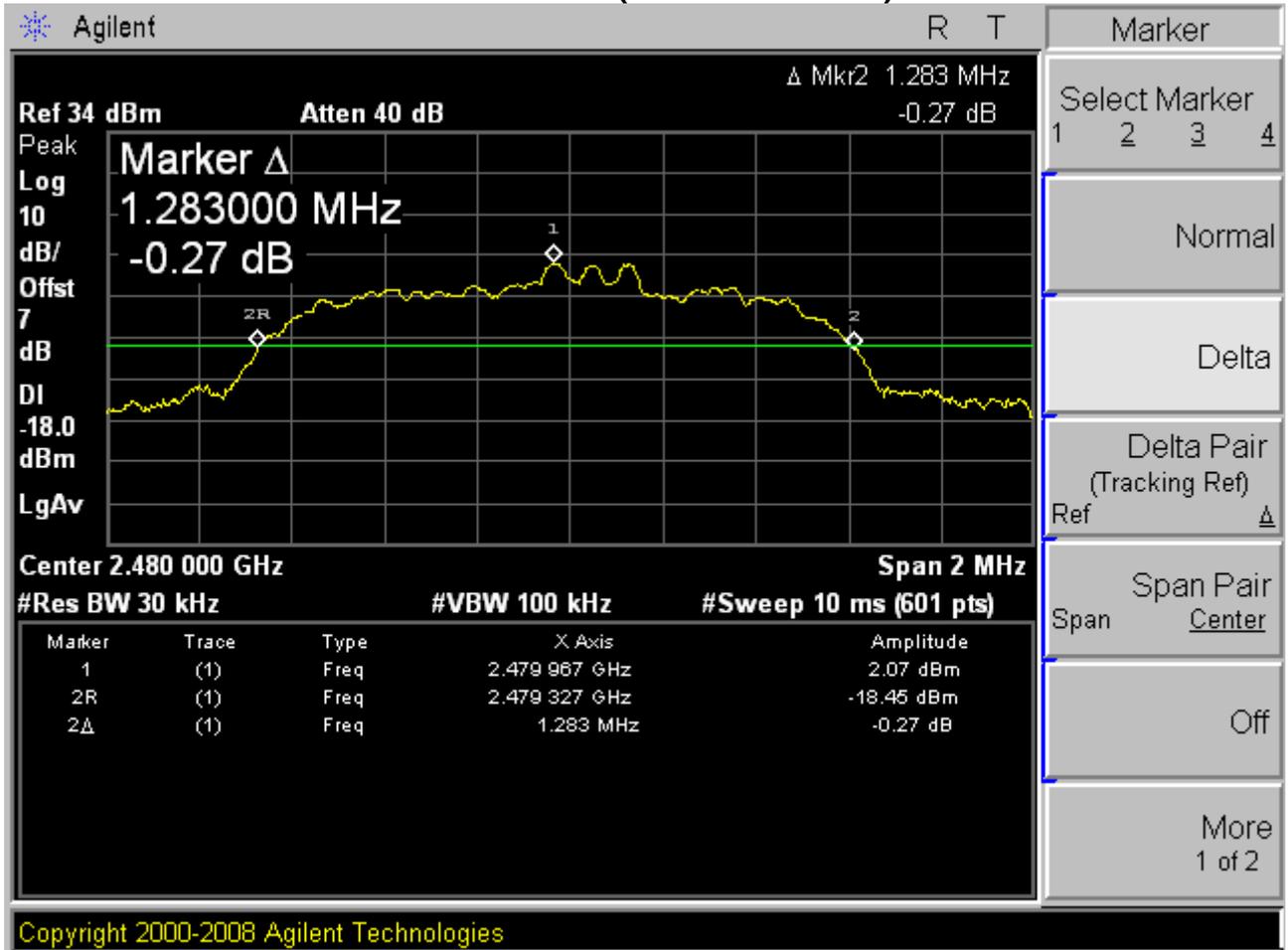


Channel 40 (2442MHz)





Channel 78 (2480MHz)





Appendix B

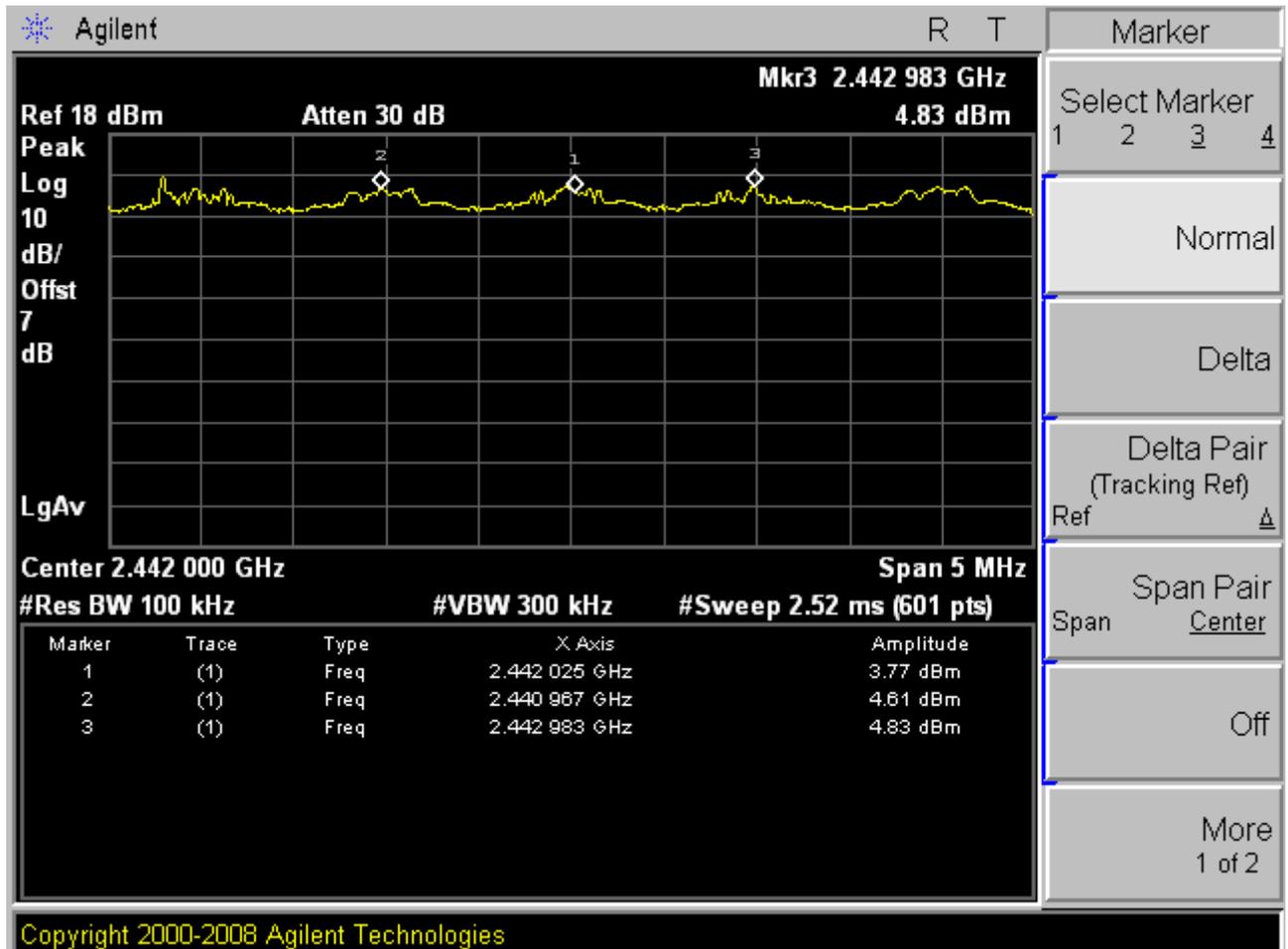
Carrier frequency separation measurement

According to FCC Part 15.247 (a) (1)



Modulation: $\pi/4$ -DQPSK

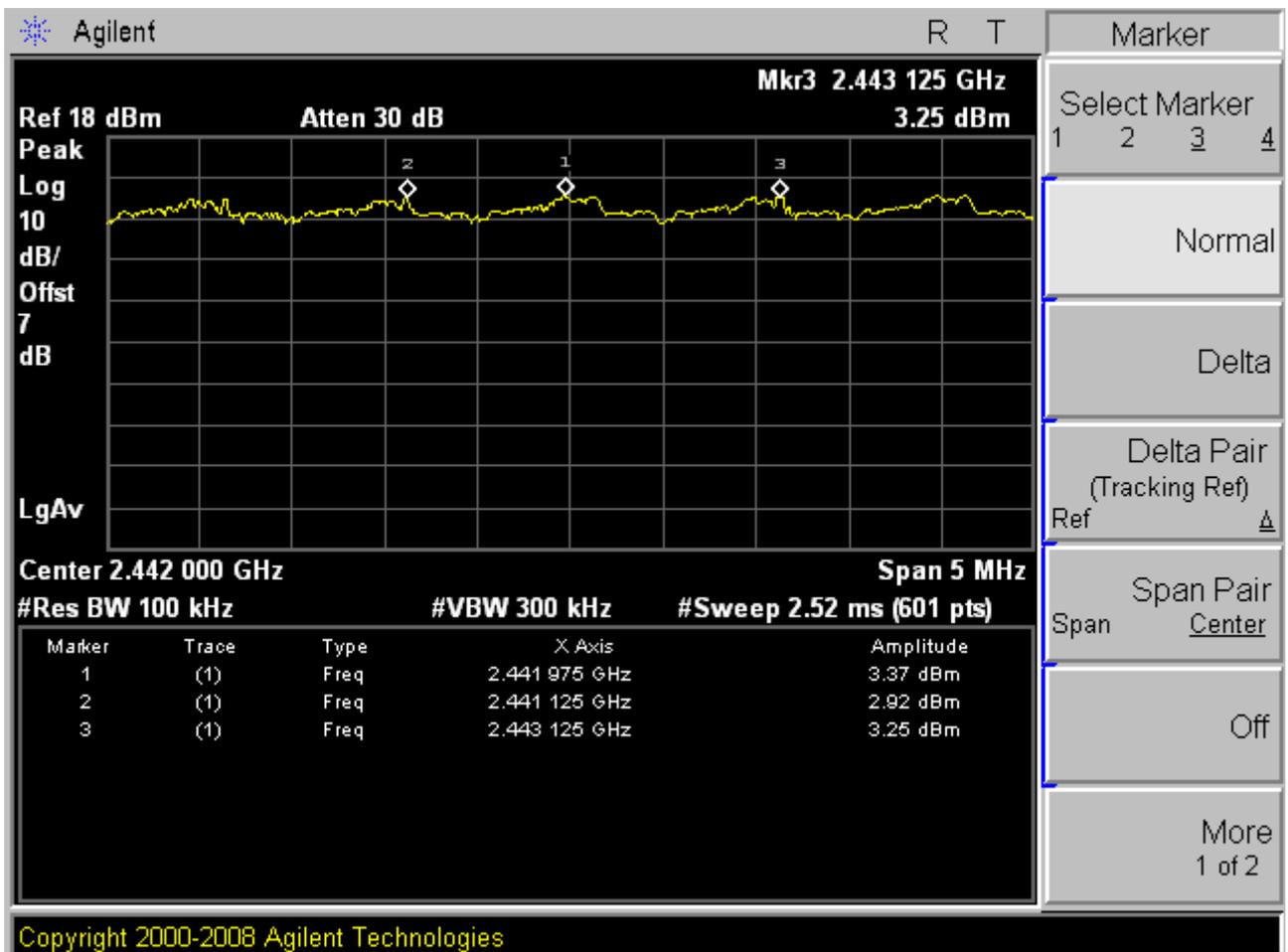
Centred at Channel 40





Modulation: 8DPSK

Centred at Channel 40





Appendix C

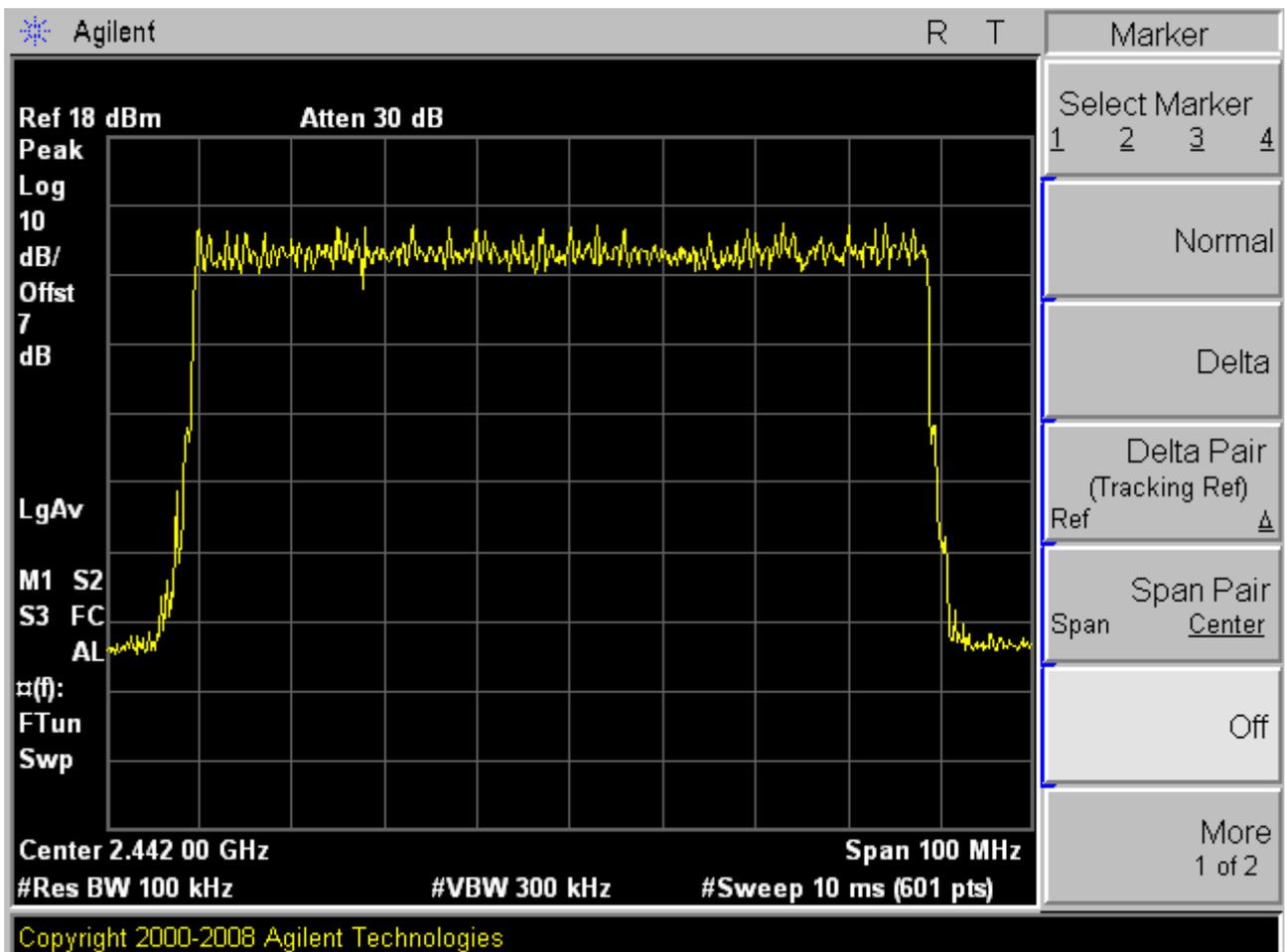
Number of hopping channel

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



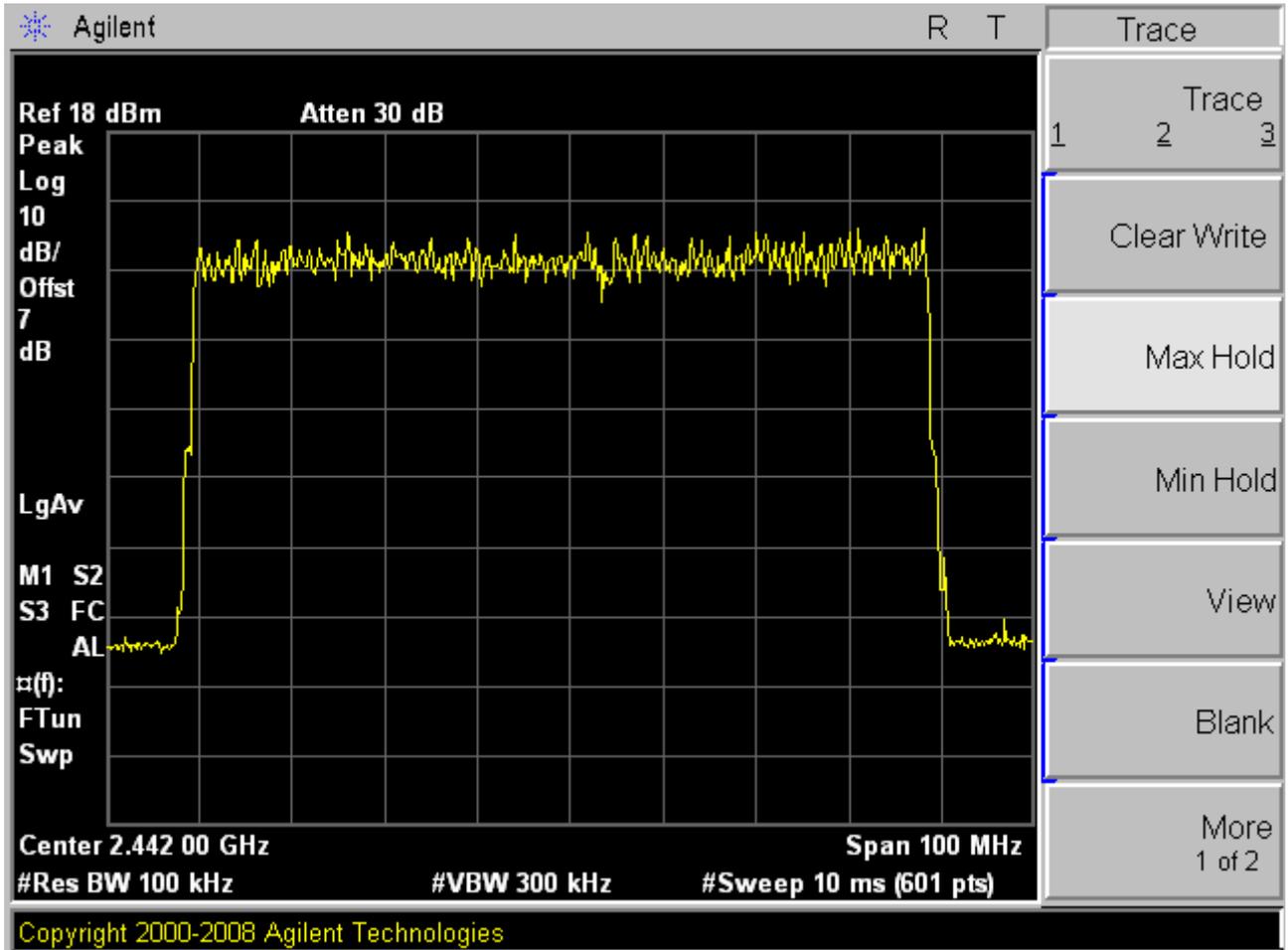
Modulation: $\pi/4$ -DQPSK

Total hopping channels = 79





Modulation: 8DPSK





Appendix D

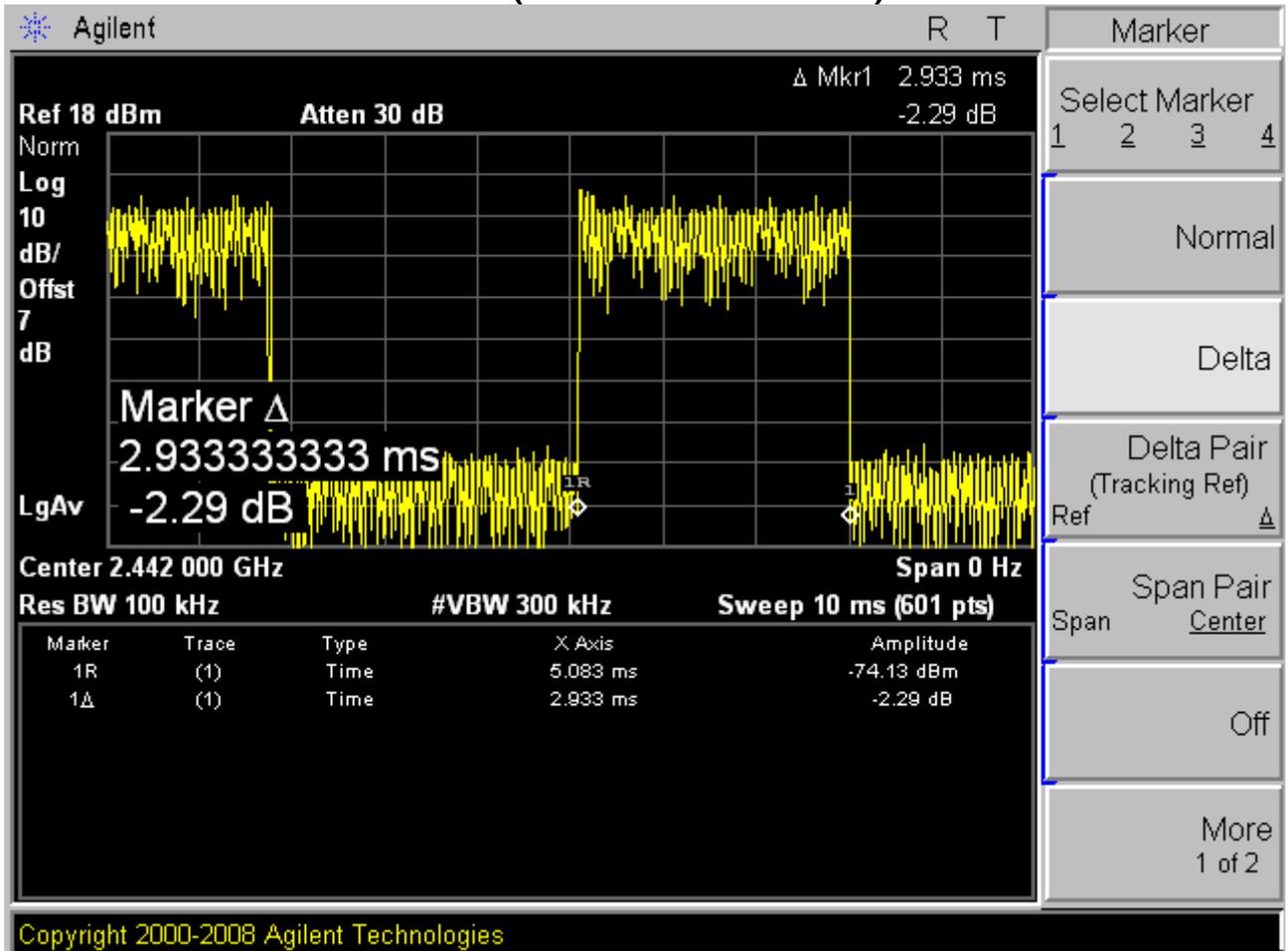
Time of occupancy

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



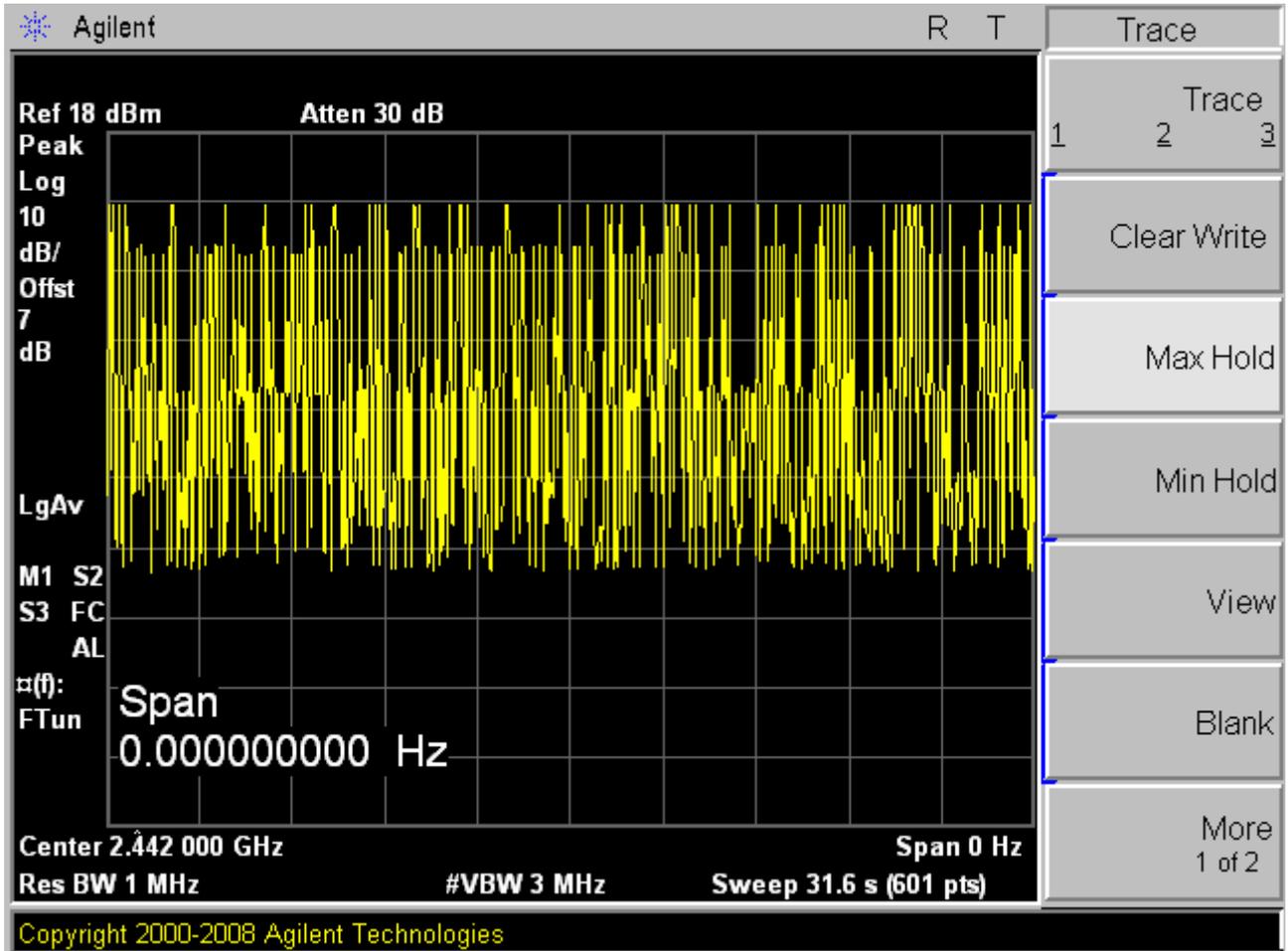
Modulation: $\pi/4$ -DQPSK

A burst (One time slot)





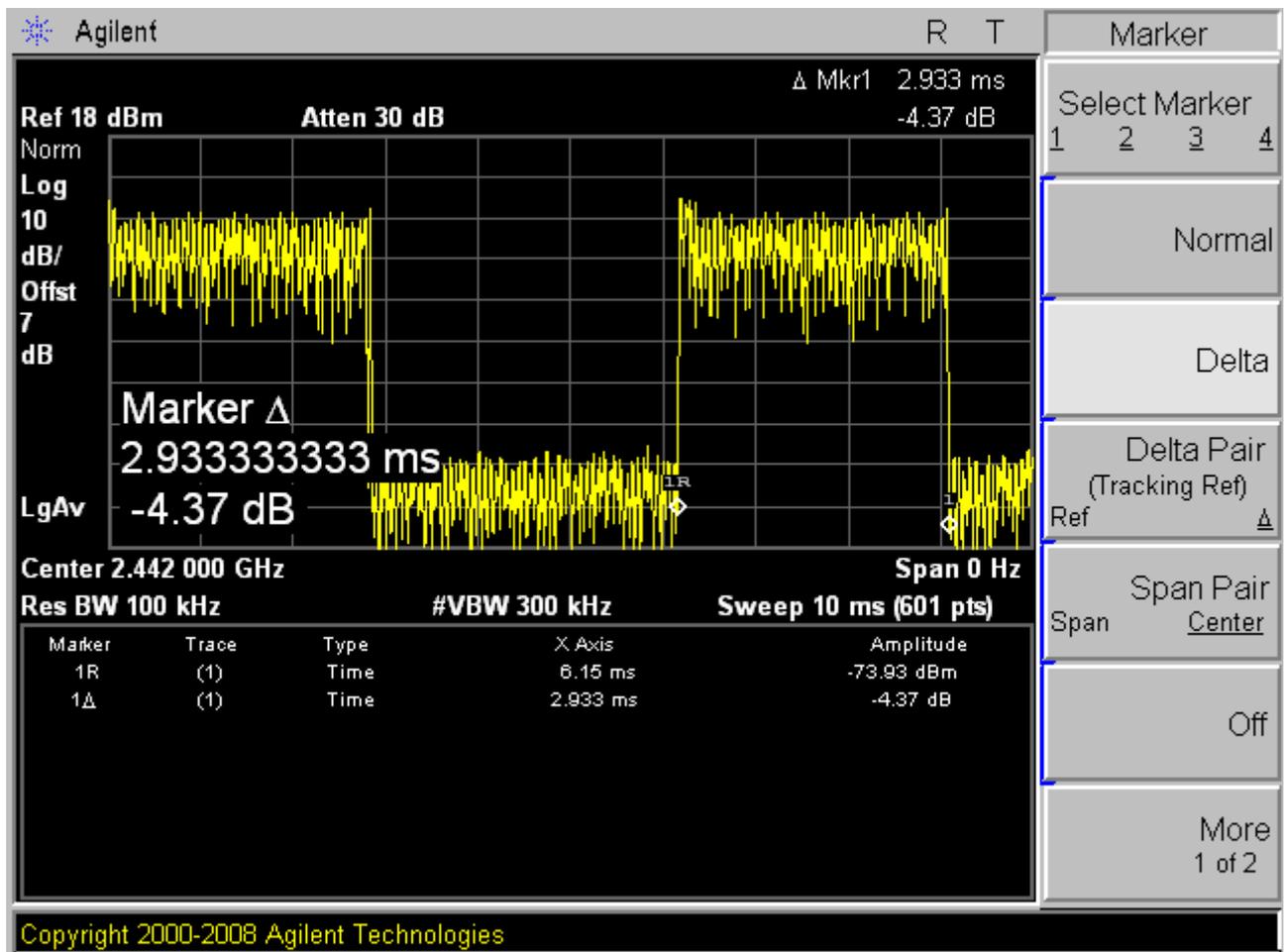
A period (Less than 106.7 burst)





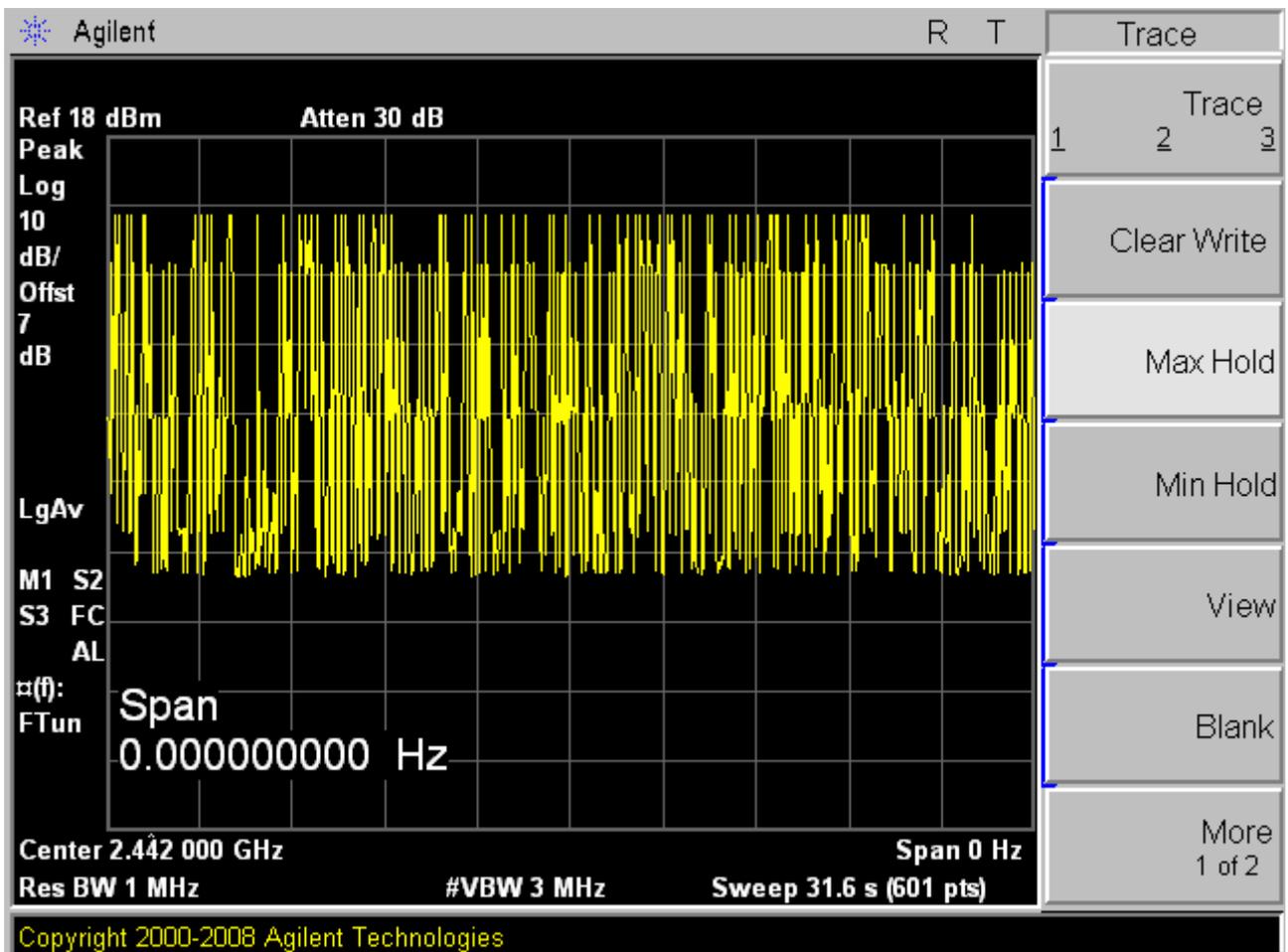
Modulation: 8DPSK

A burst (One time slot)





A period (Less than 106.7 burst)





Appendix E

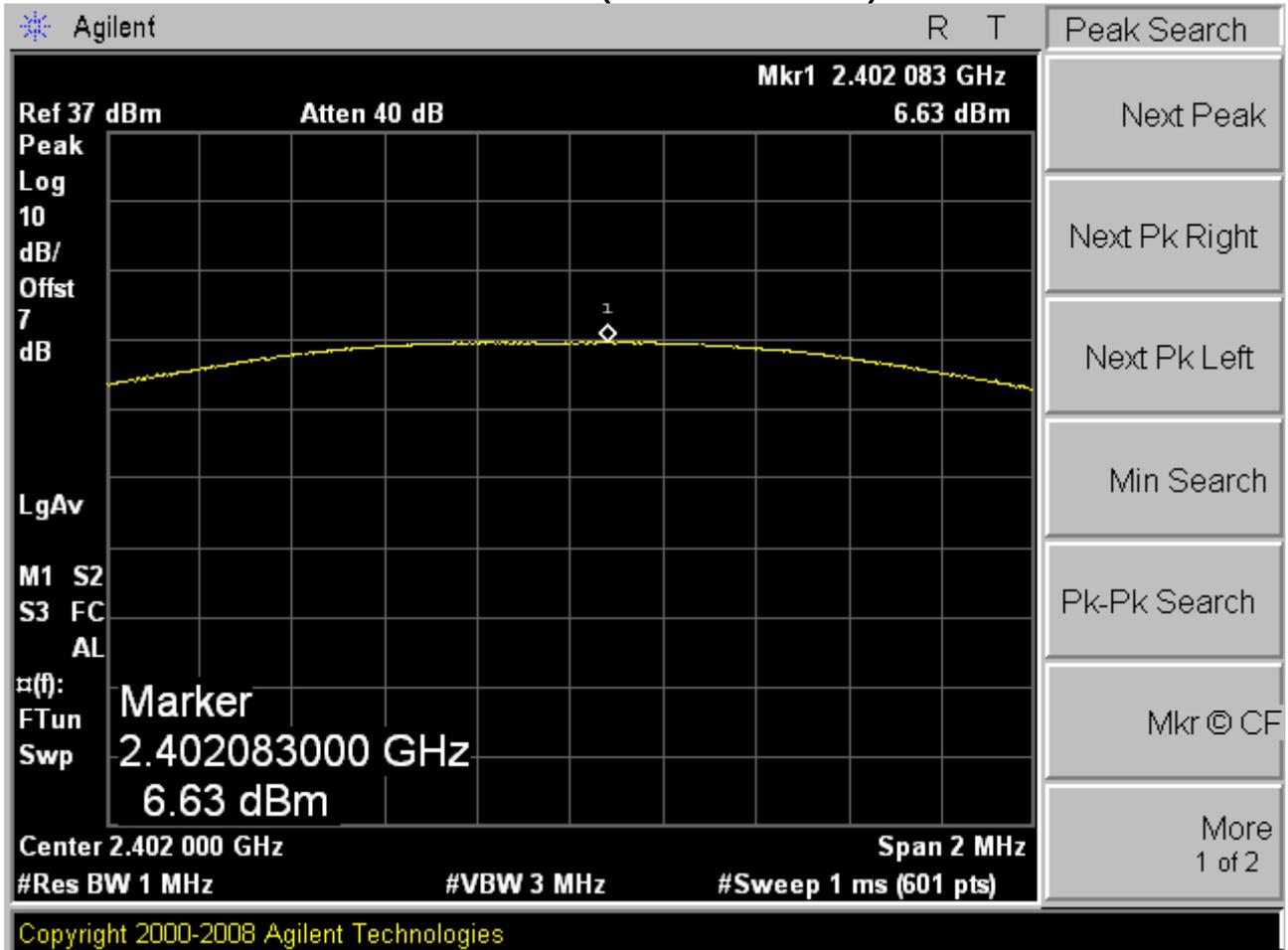
Peak output power

According to FCC Part 15.247 (b) (1)



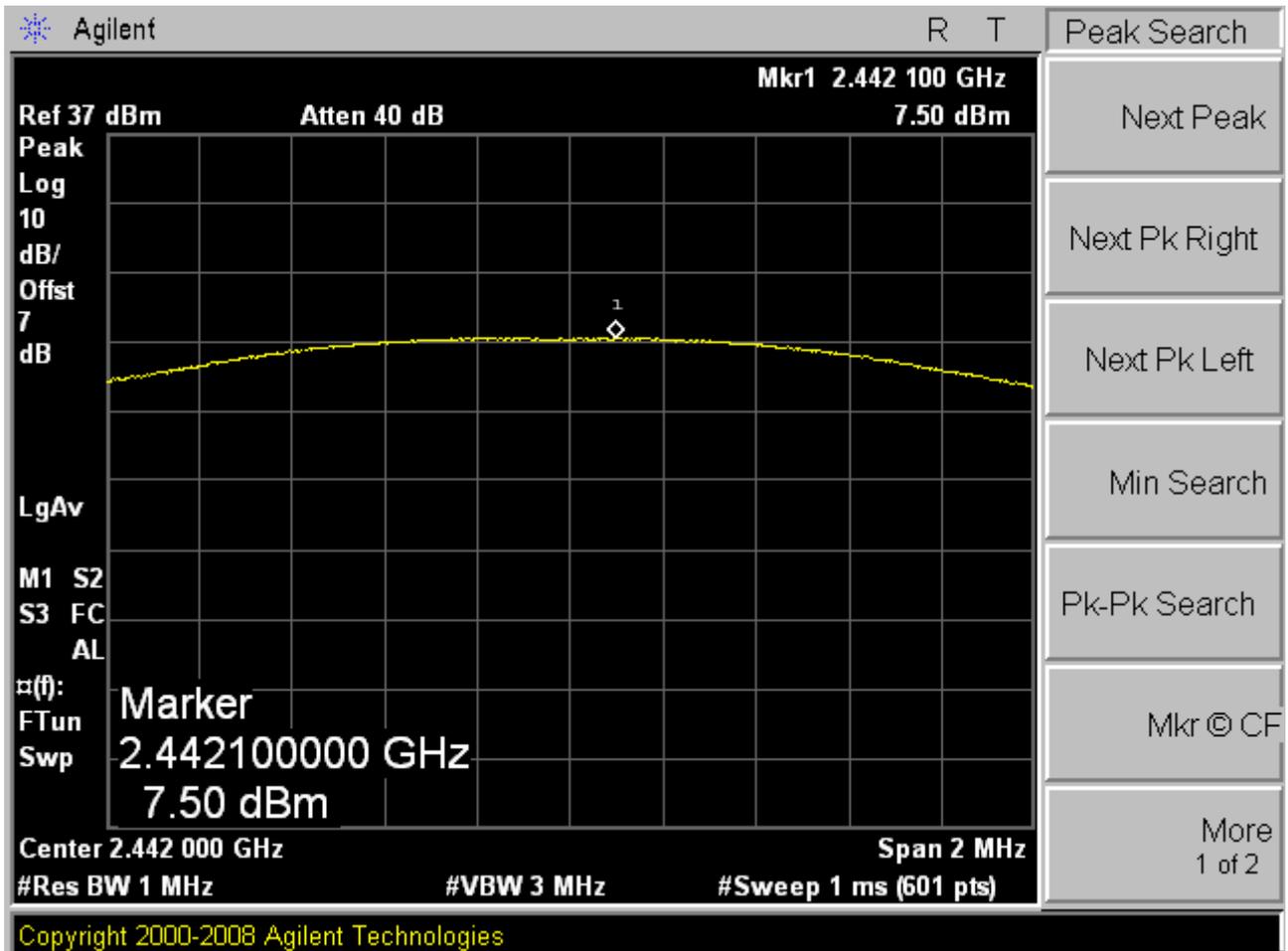
Modulation: $\pi/4$ -DQPSK)

Channel 0 (2402MHz)



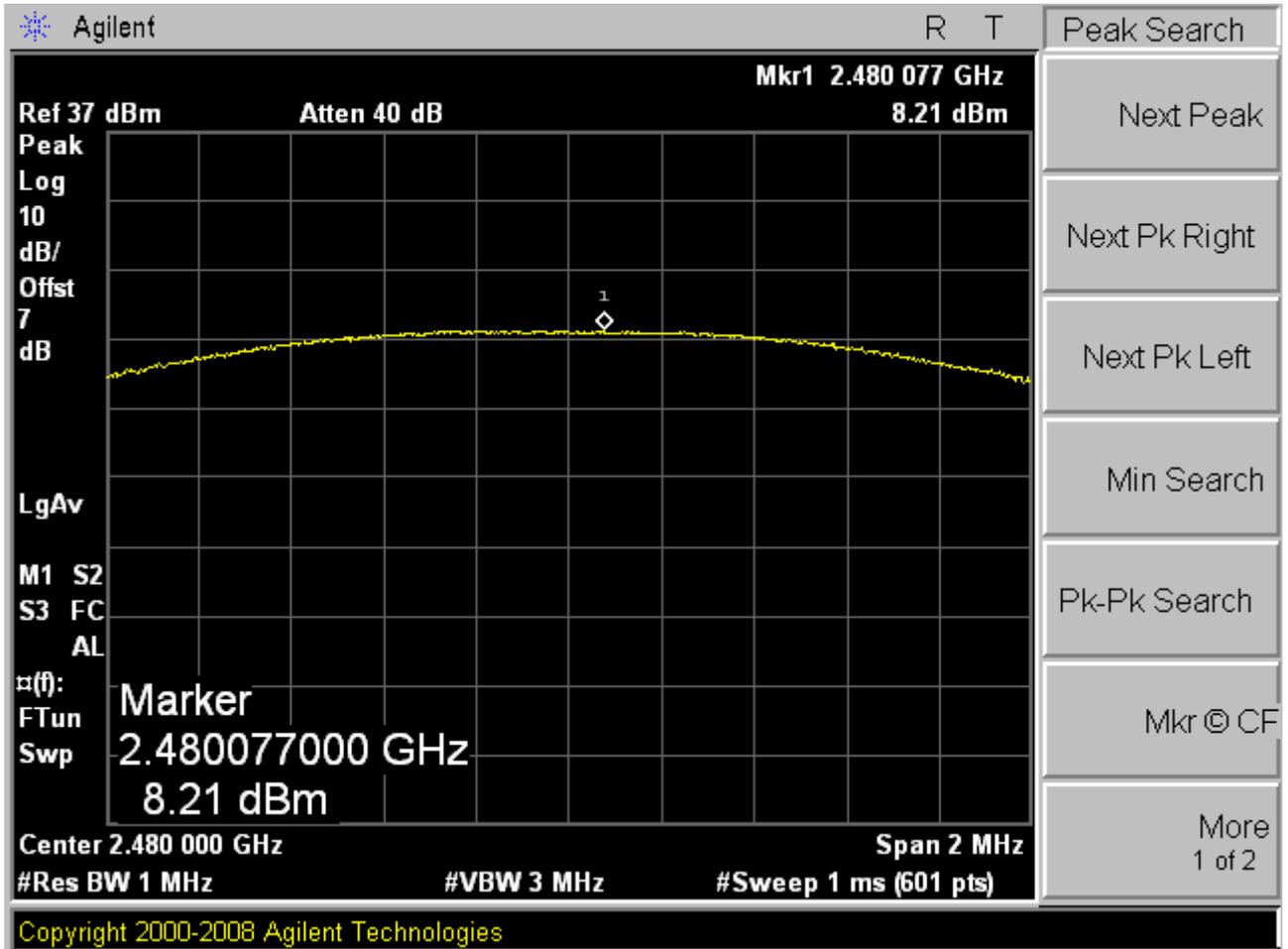


Channel 40 (2442MHz)





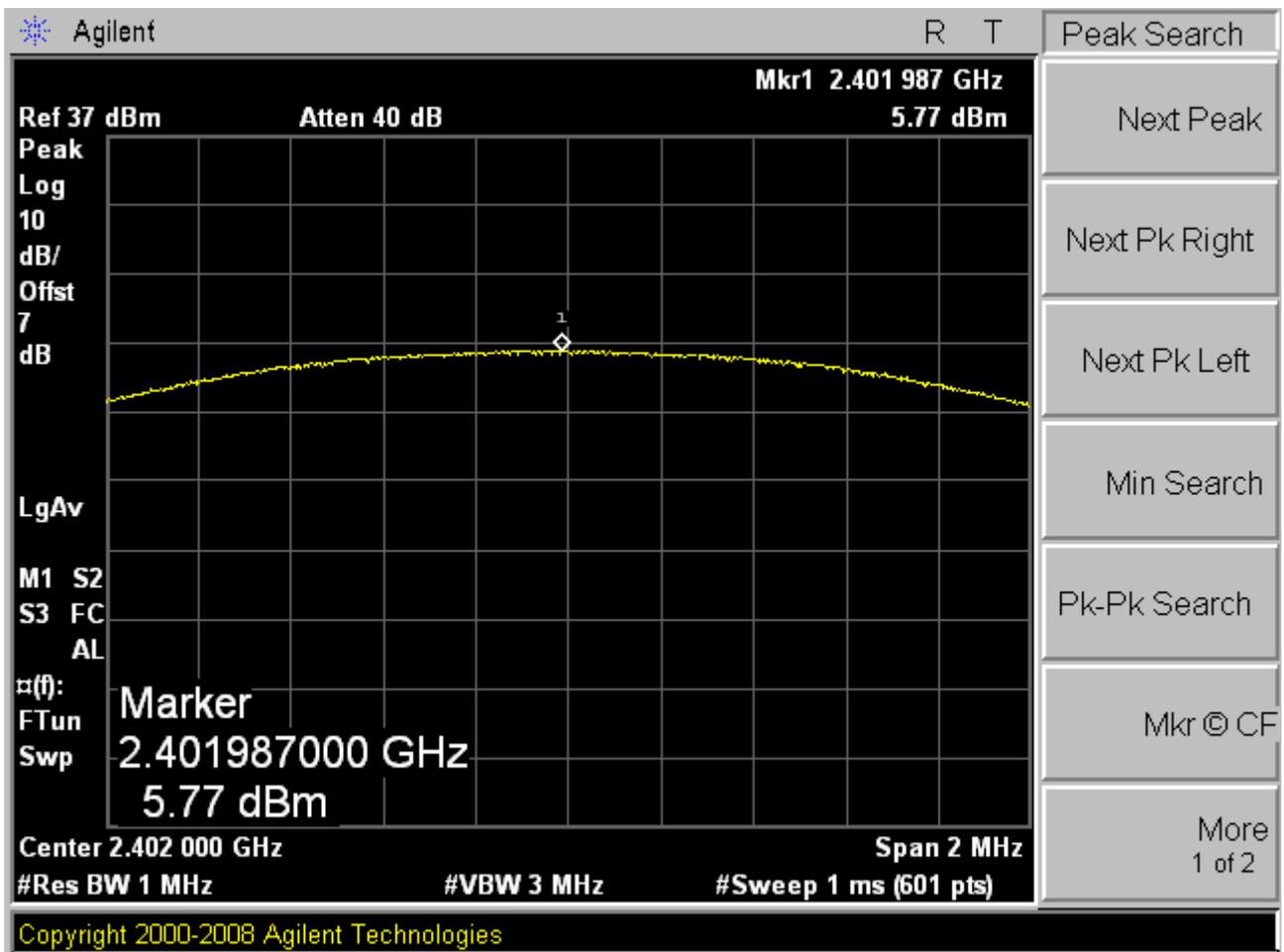
Channel 78 (2480MHz)





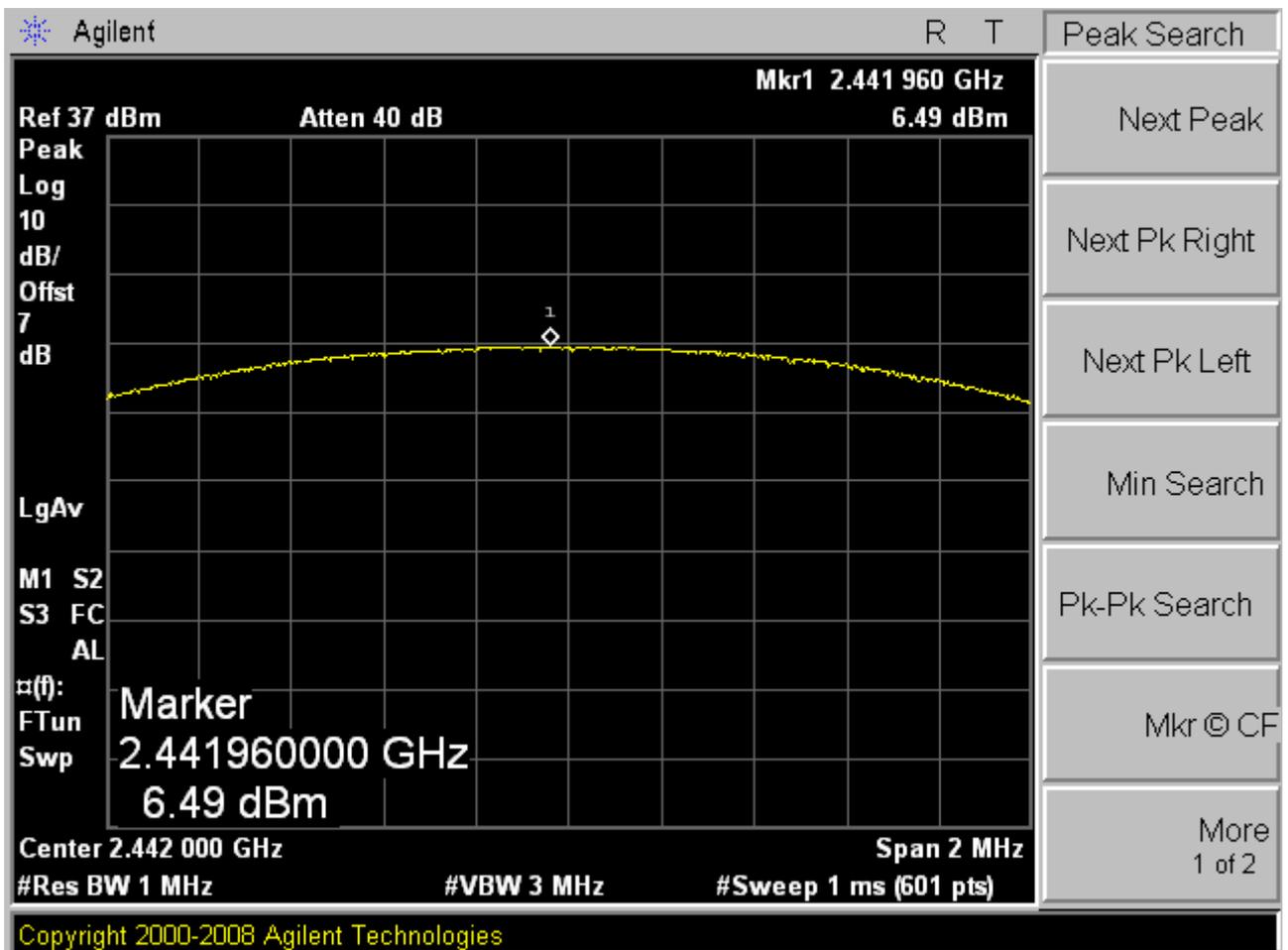
Modulation: 8DPSK)

Channel 0 (2402MHz)



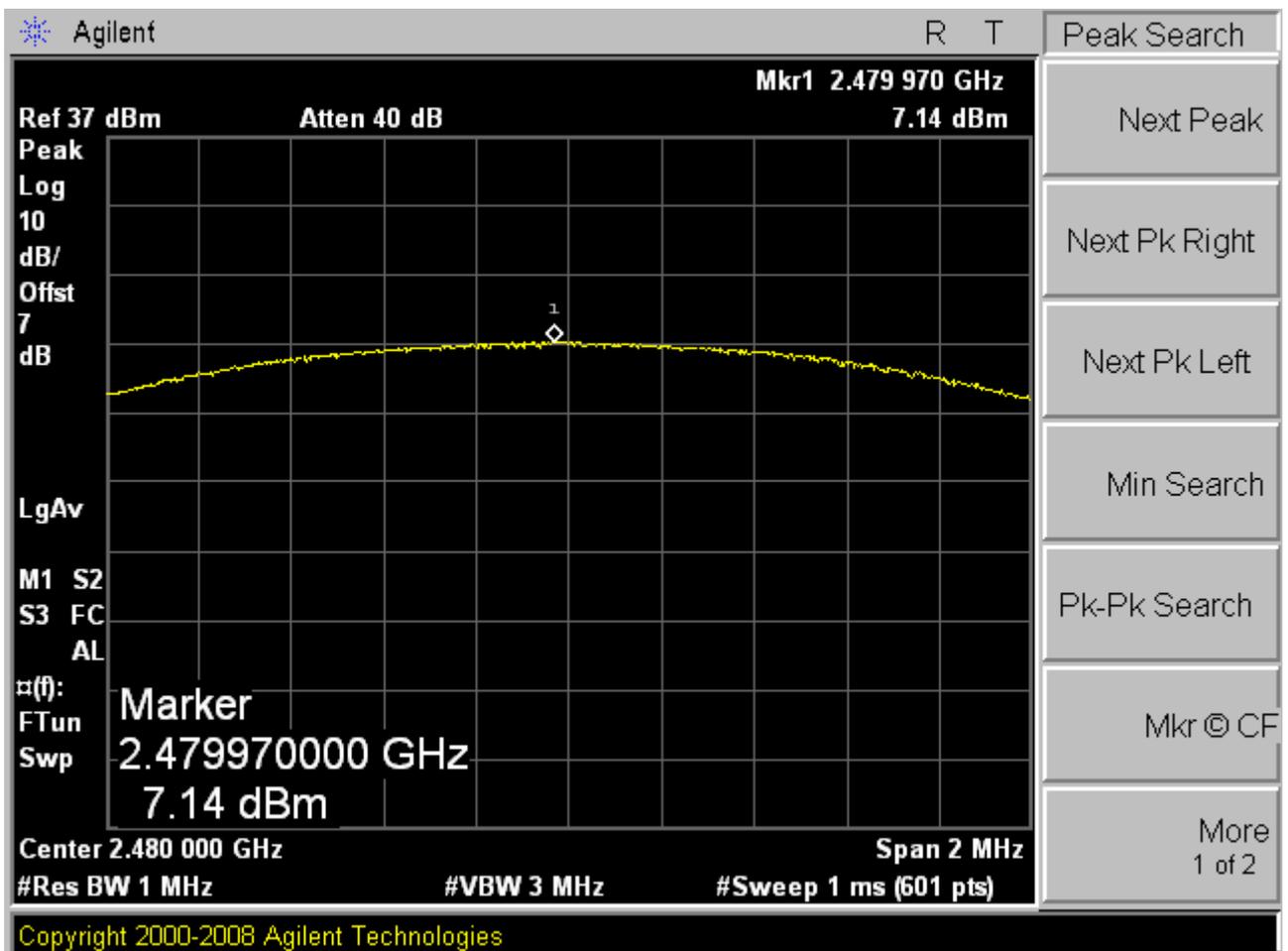


Channel 40 (2442MHz)





Channel 78 (2480MHz)





Appendix F

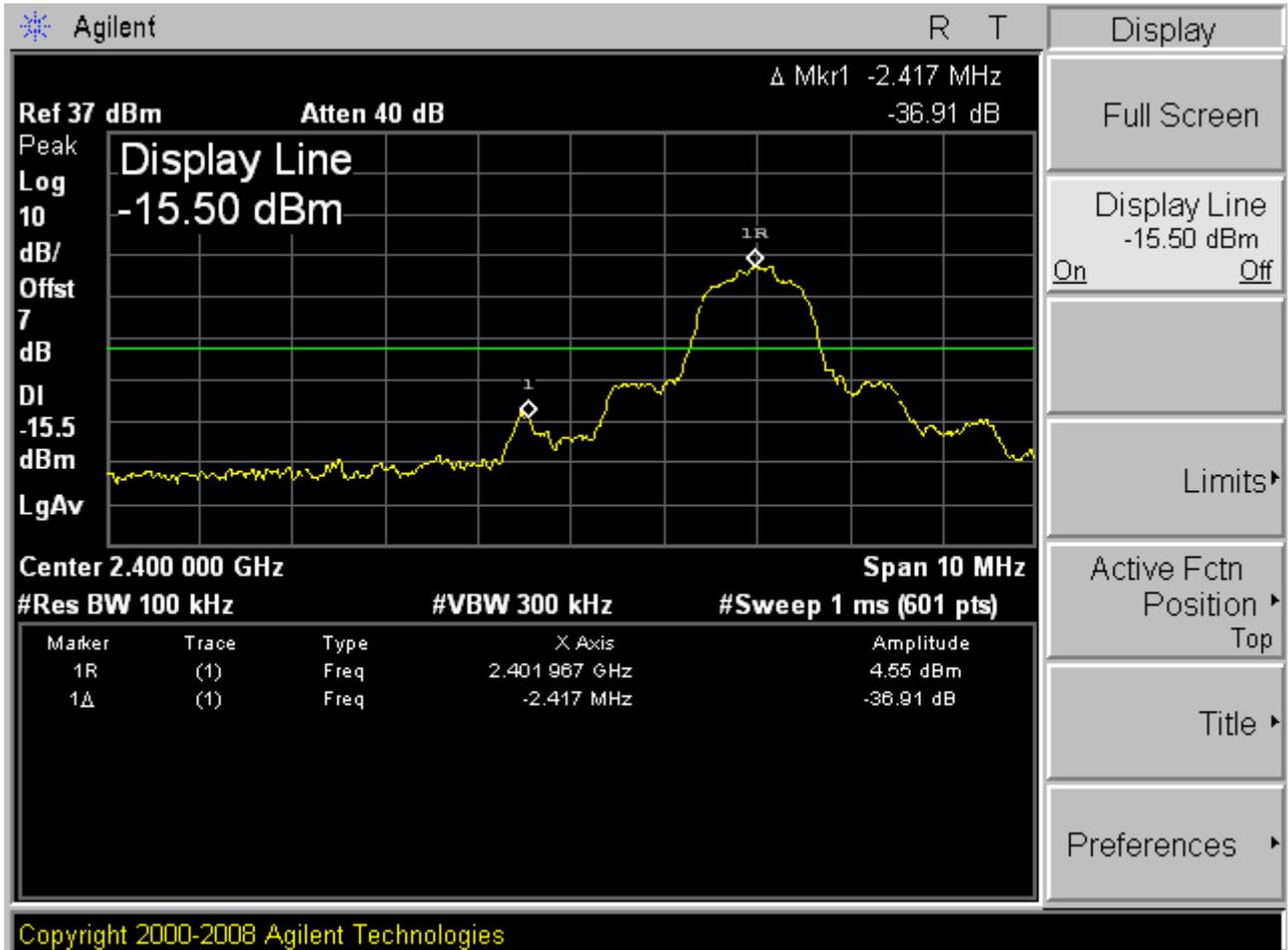
Band edge spurious emission

According to FCC Part 15.247 (d)



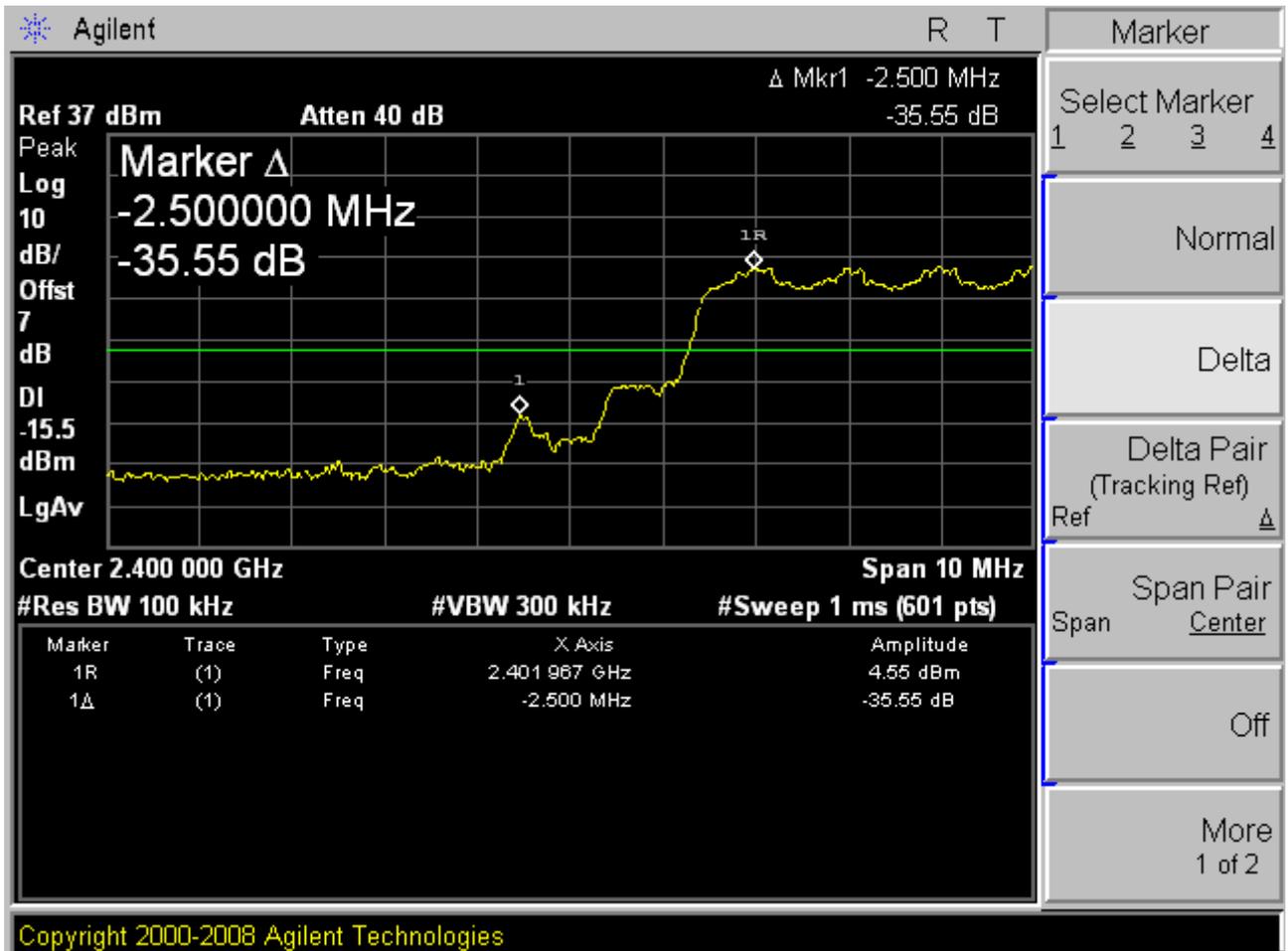
(Modulation: $\pi/4$ -DQPSK)

Low edge (Channel 0, no hopping)



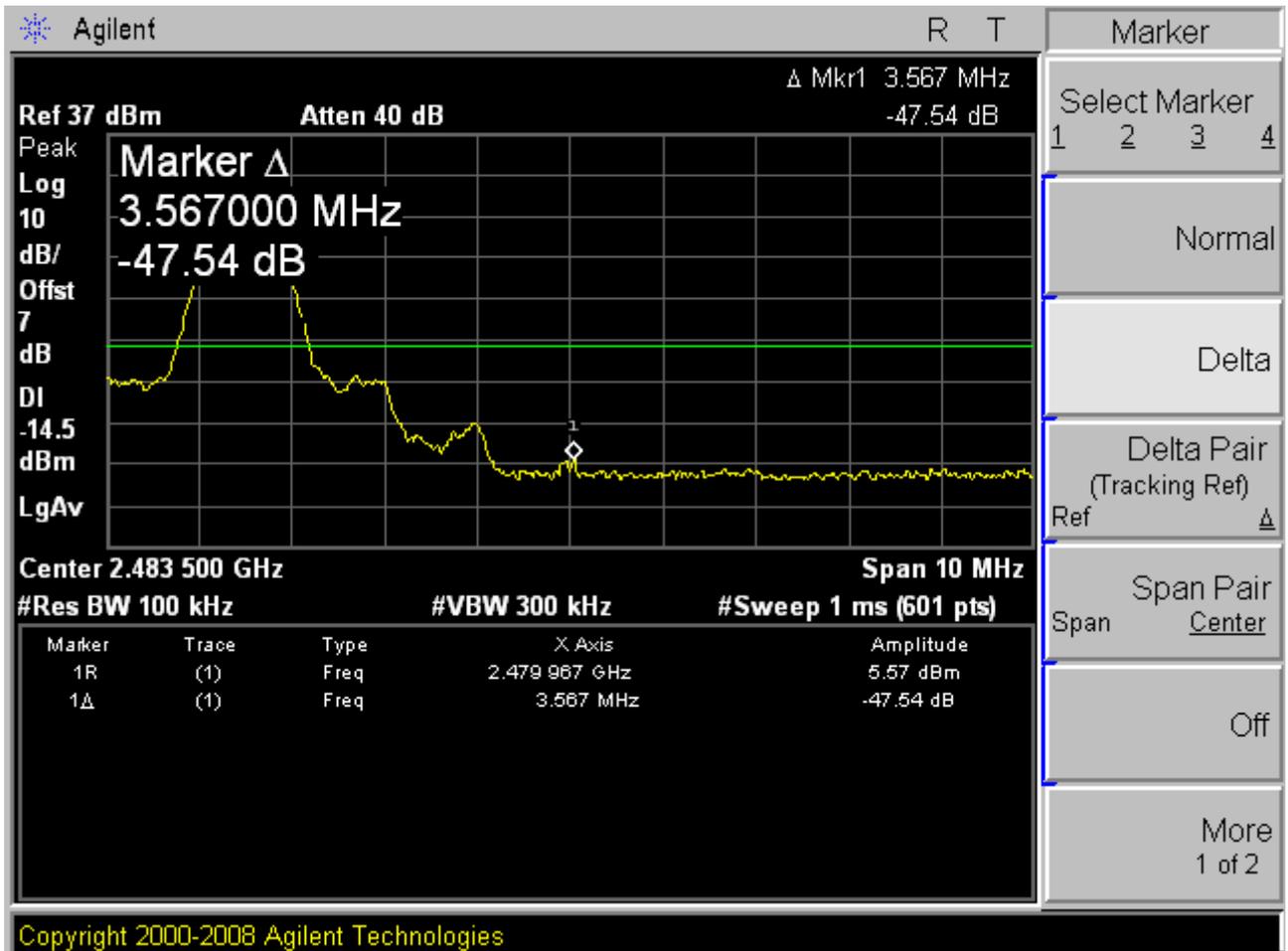


Low edge (with hopping)



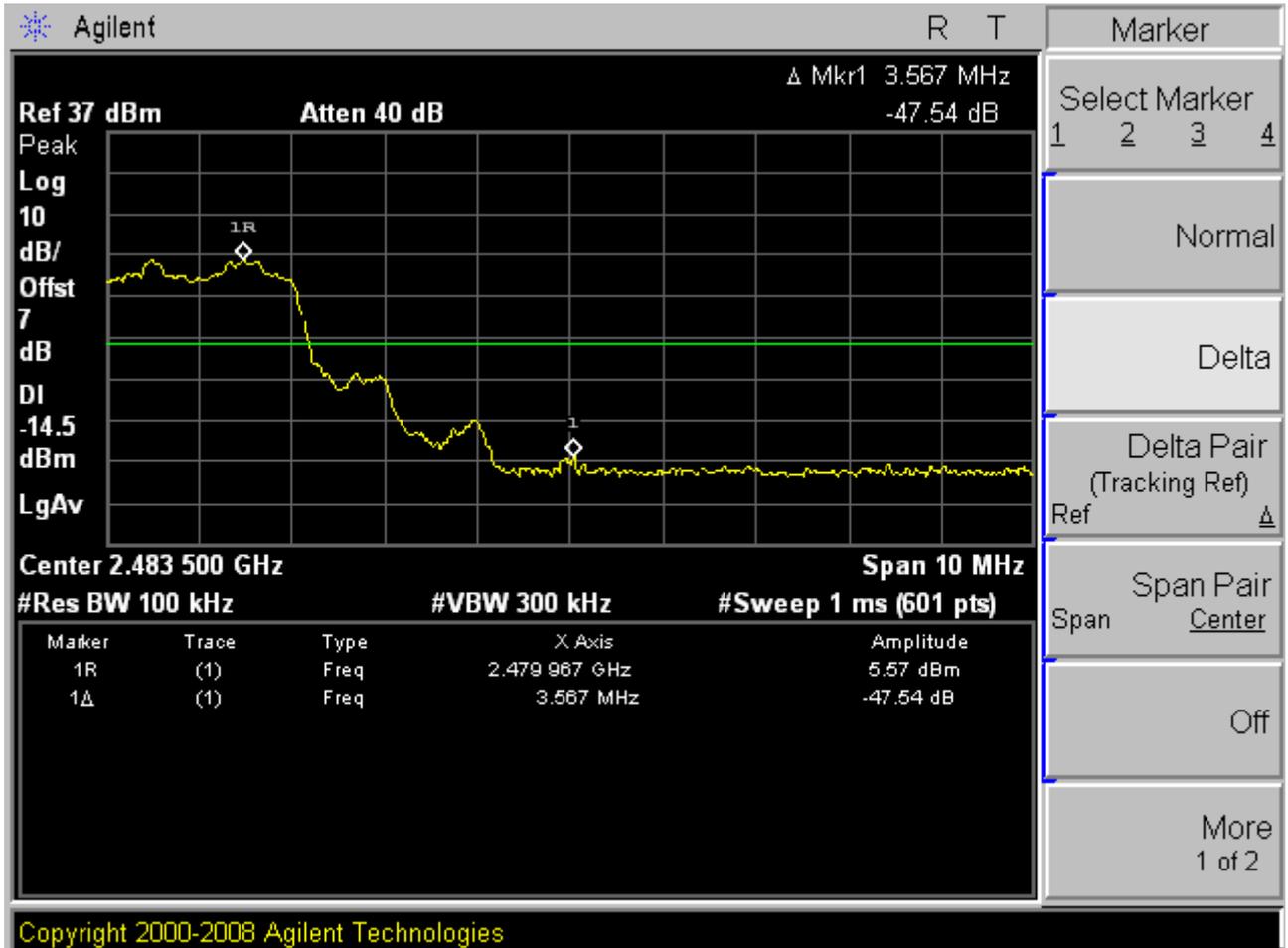


High edge (Channel 78, no hopping)





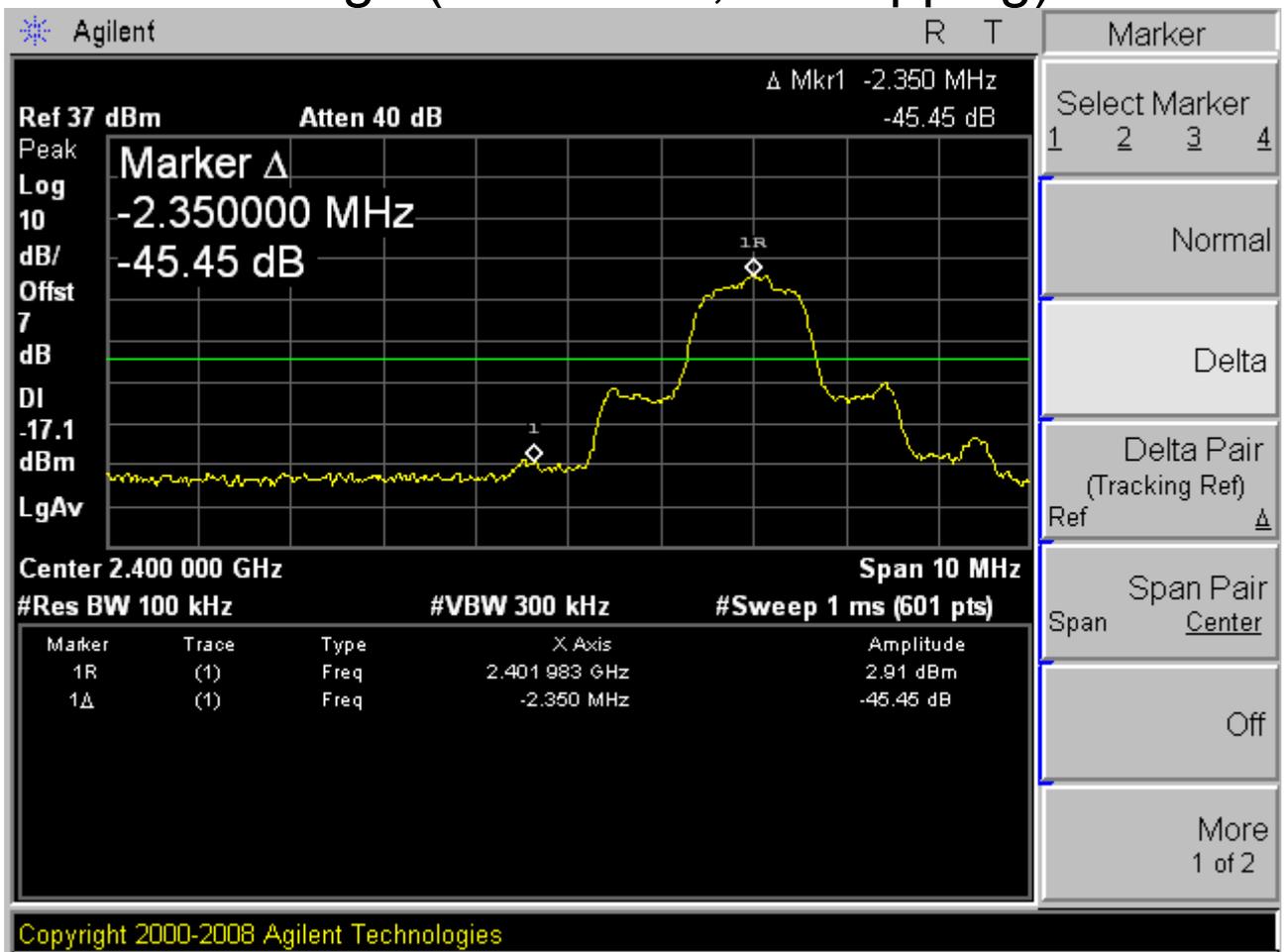
High edge (with hopping)





(Modulation: 8DPSK)

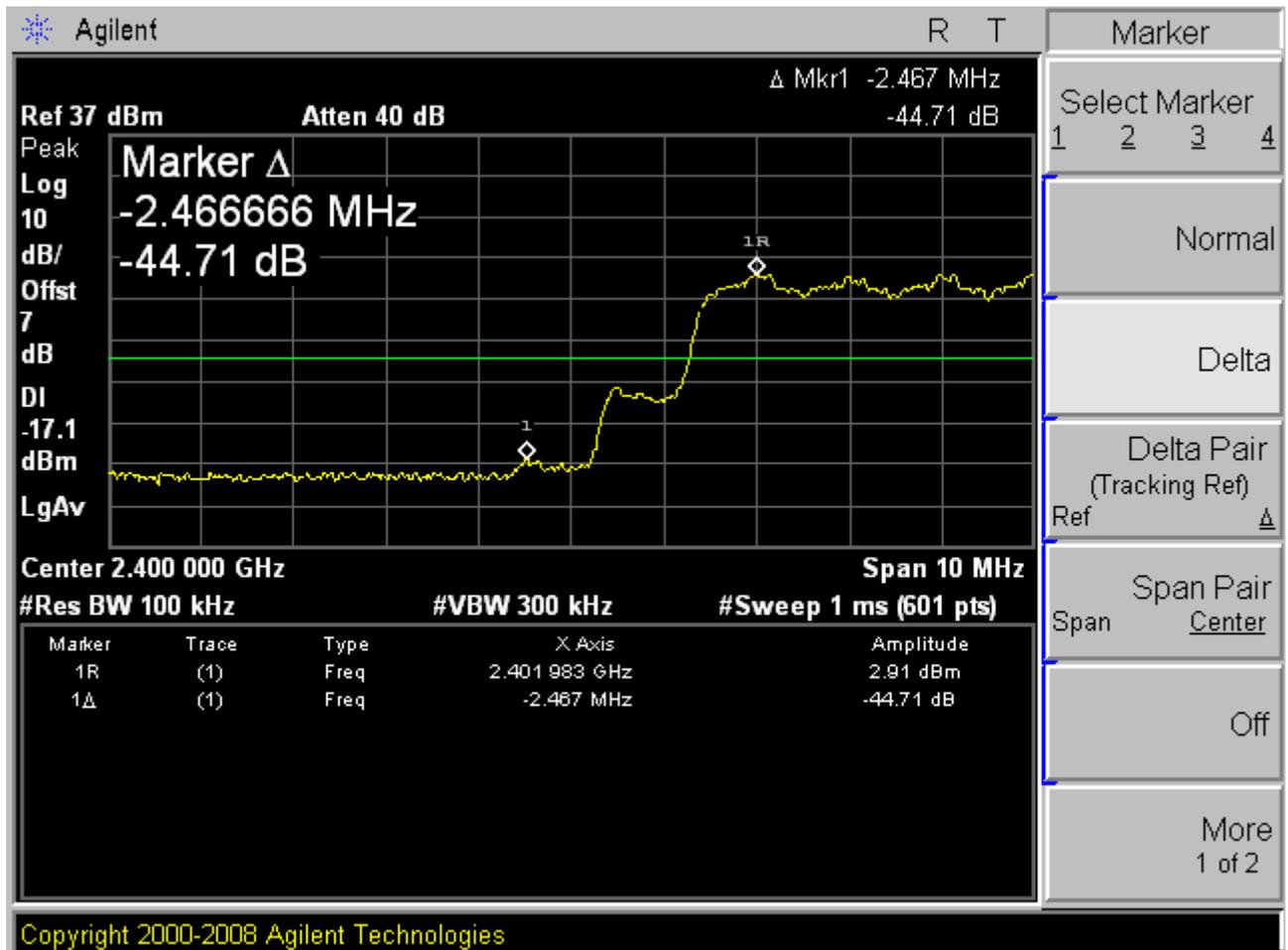
.Low edge (Channel 0, no hopping)



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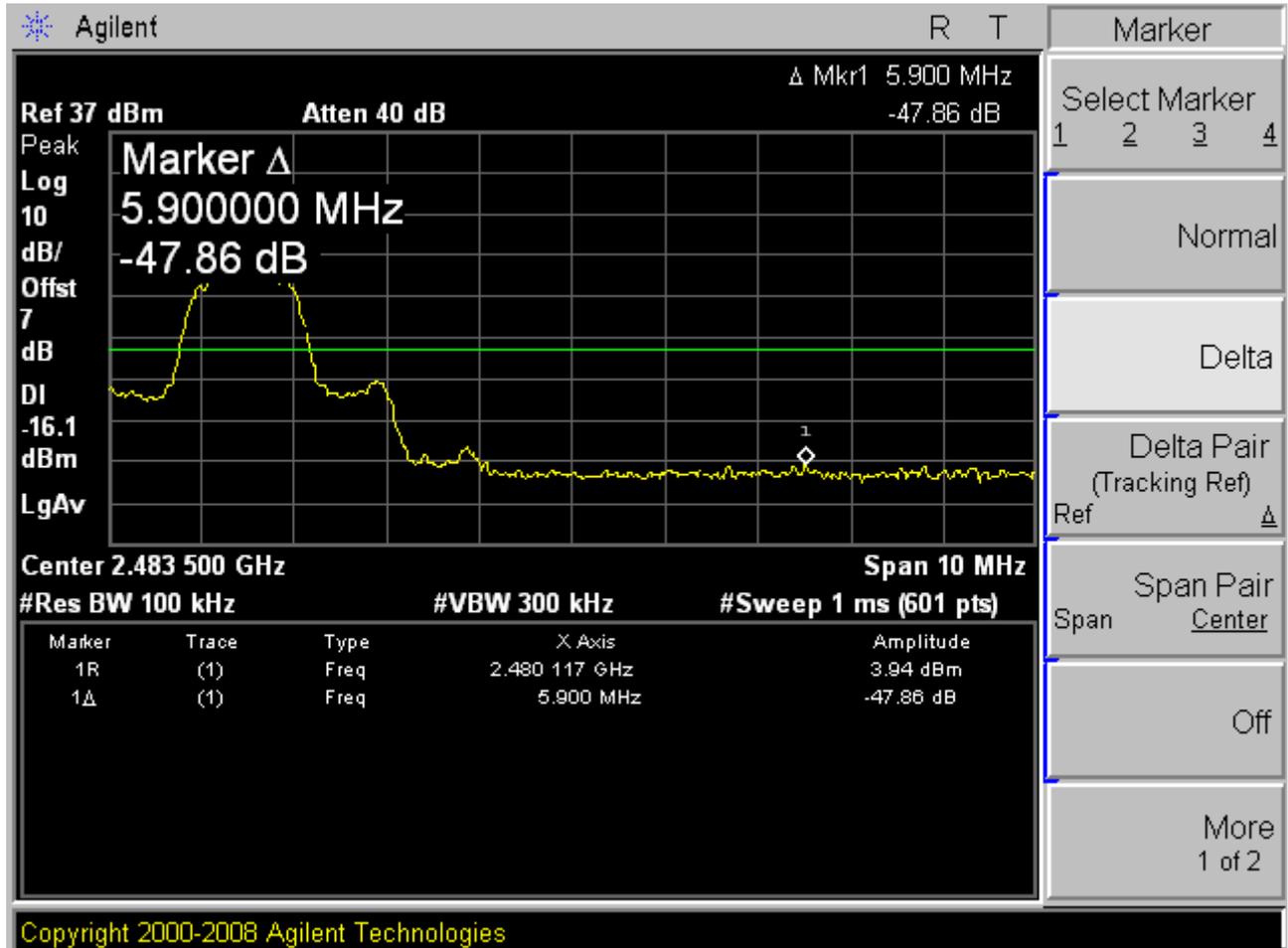


Low edge (with hopping)



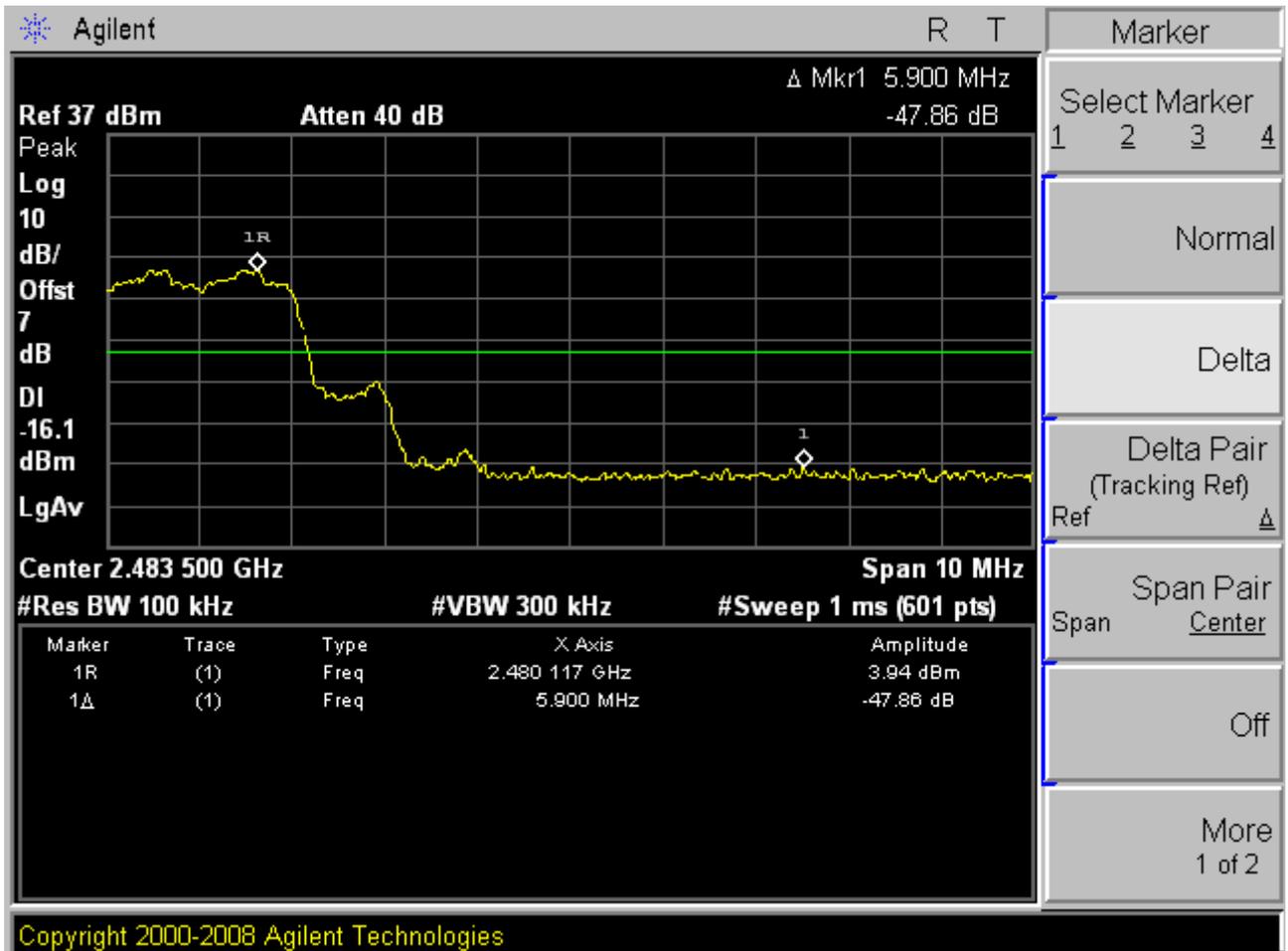


High edge (Channel 78, no hopping)





High edge (with hopping)





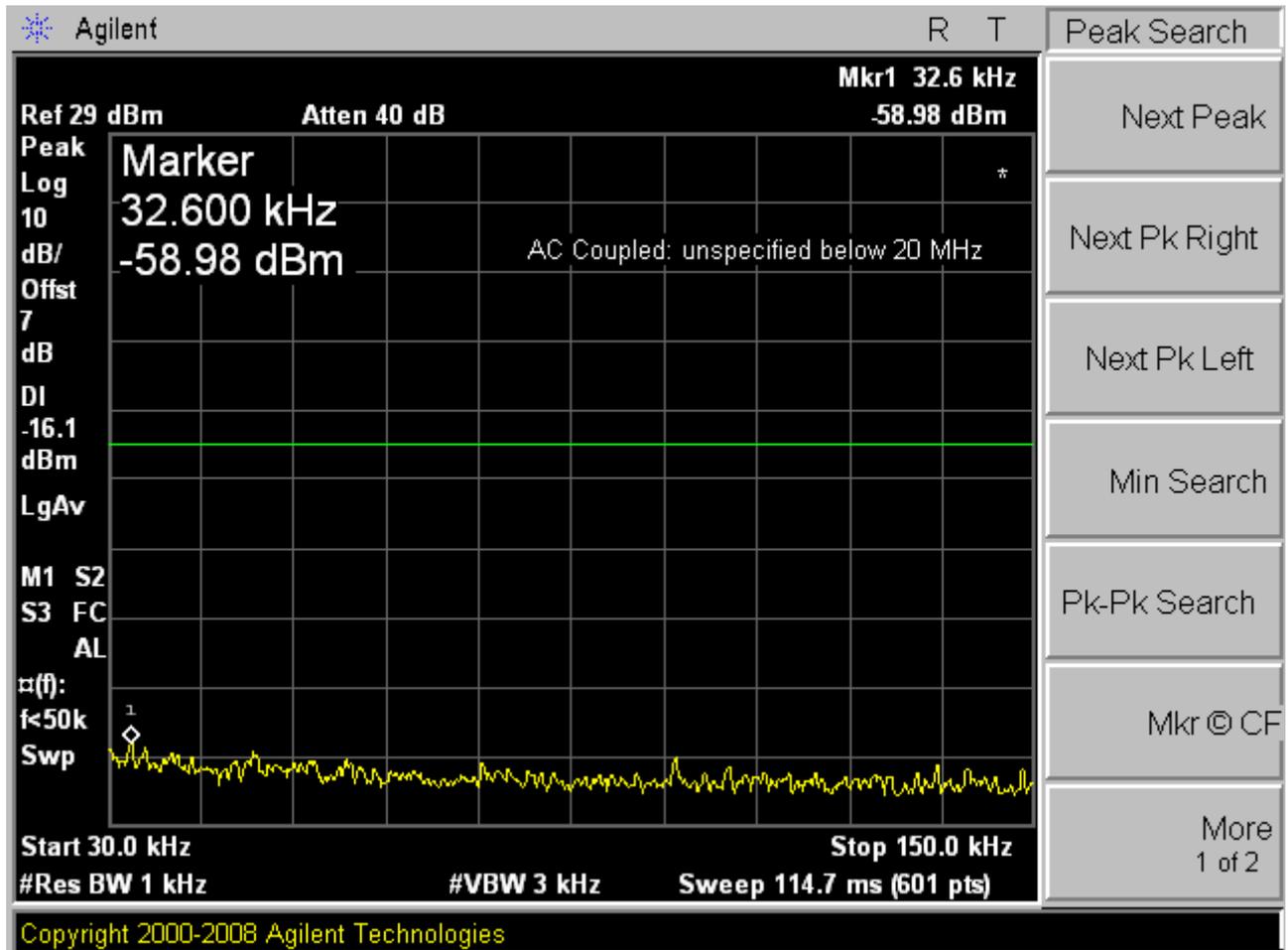
Appendix G

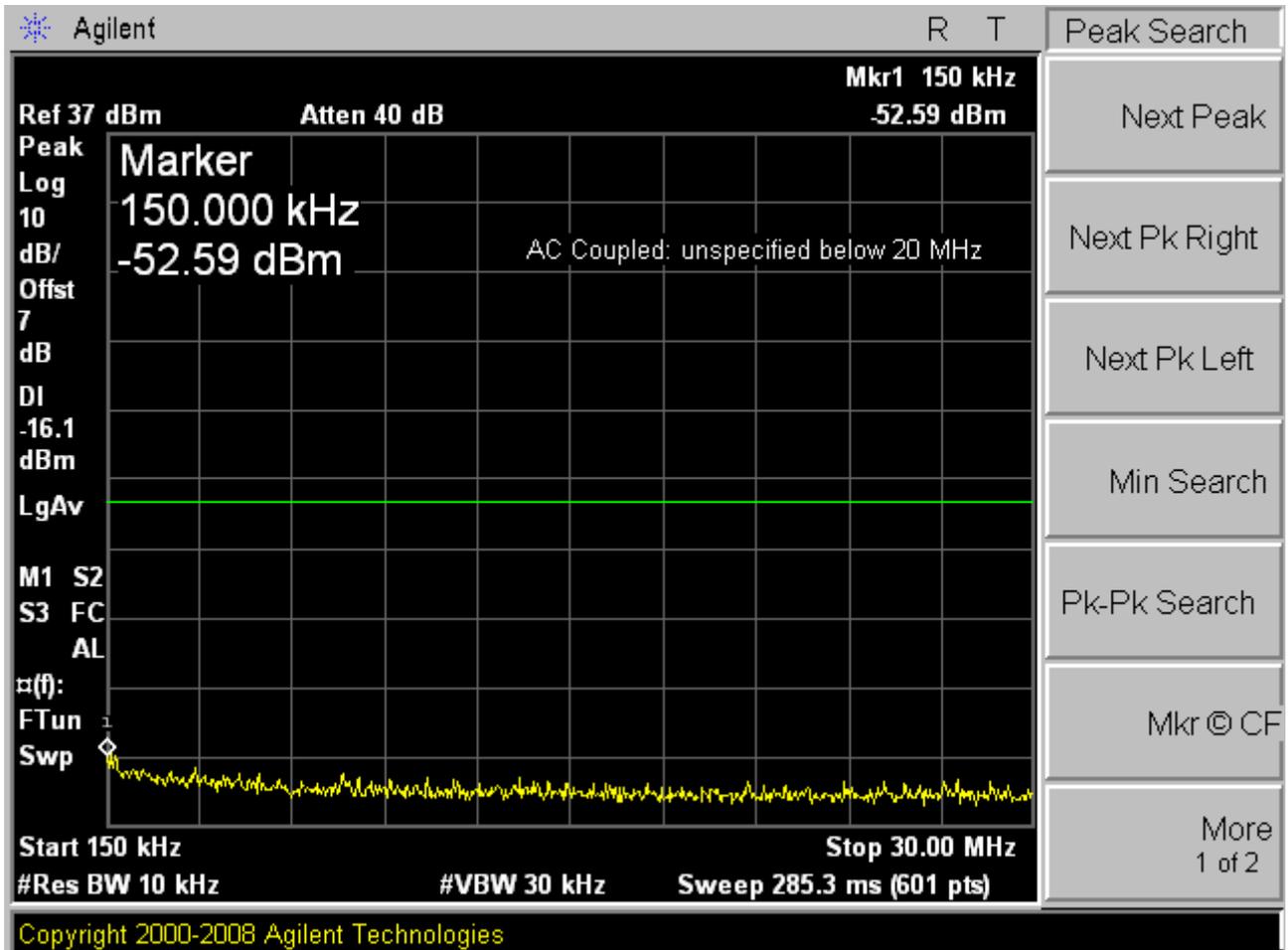
Conducted RF spurious

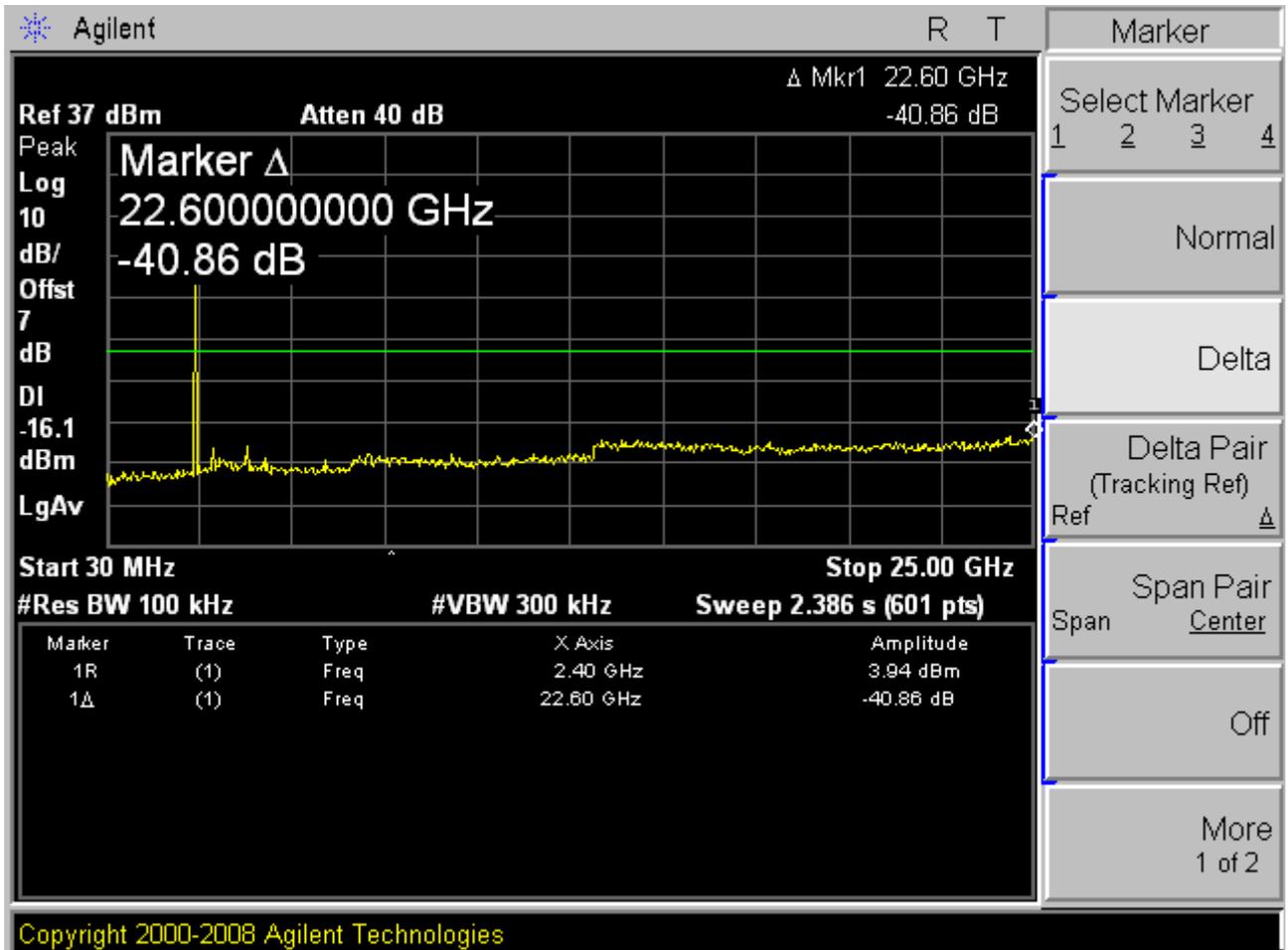
According to FCC Part 15.247 (d)



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

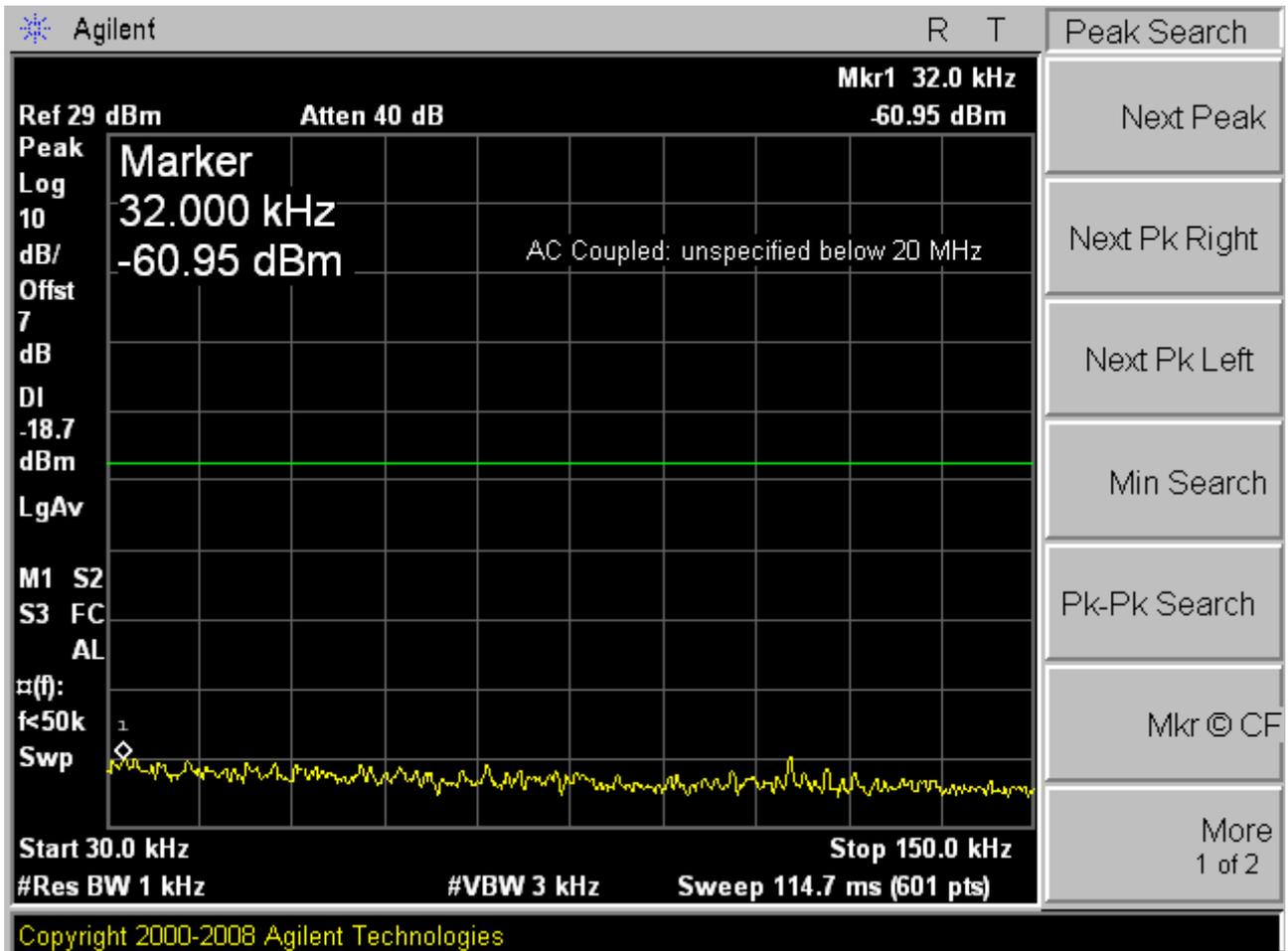


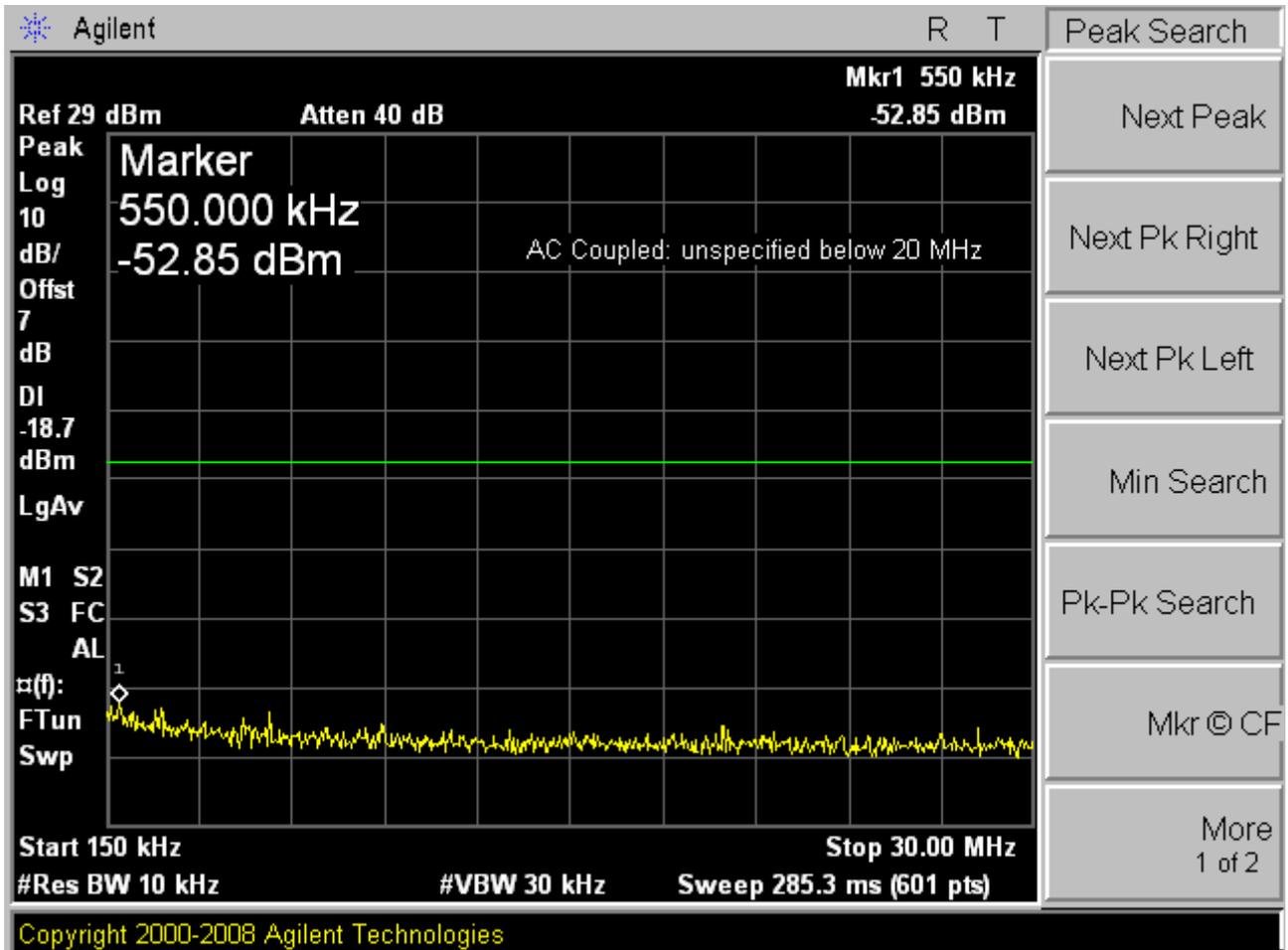


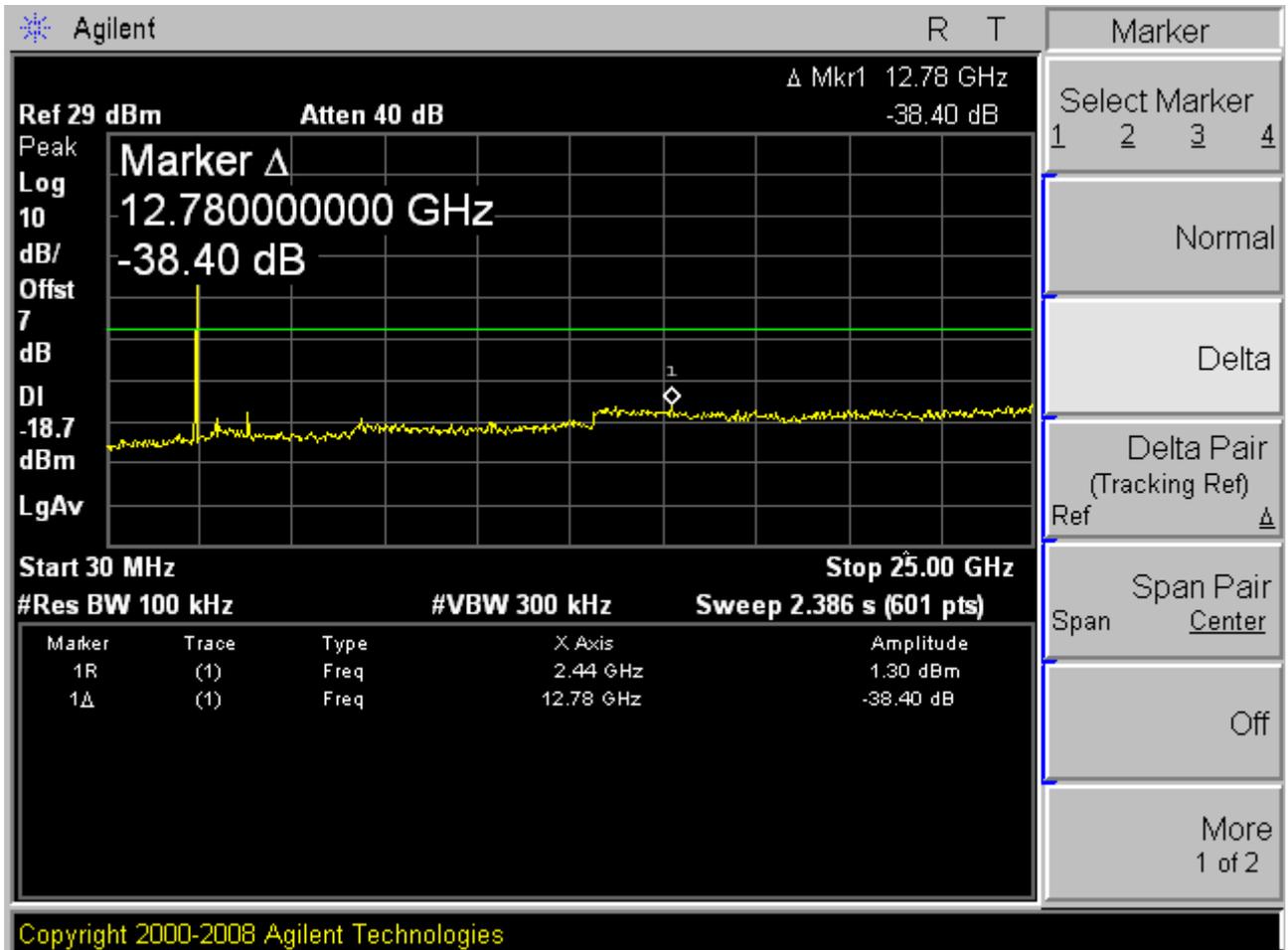




Channel 40

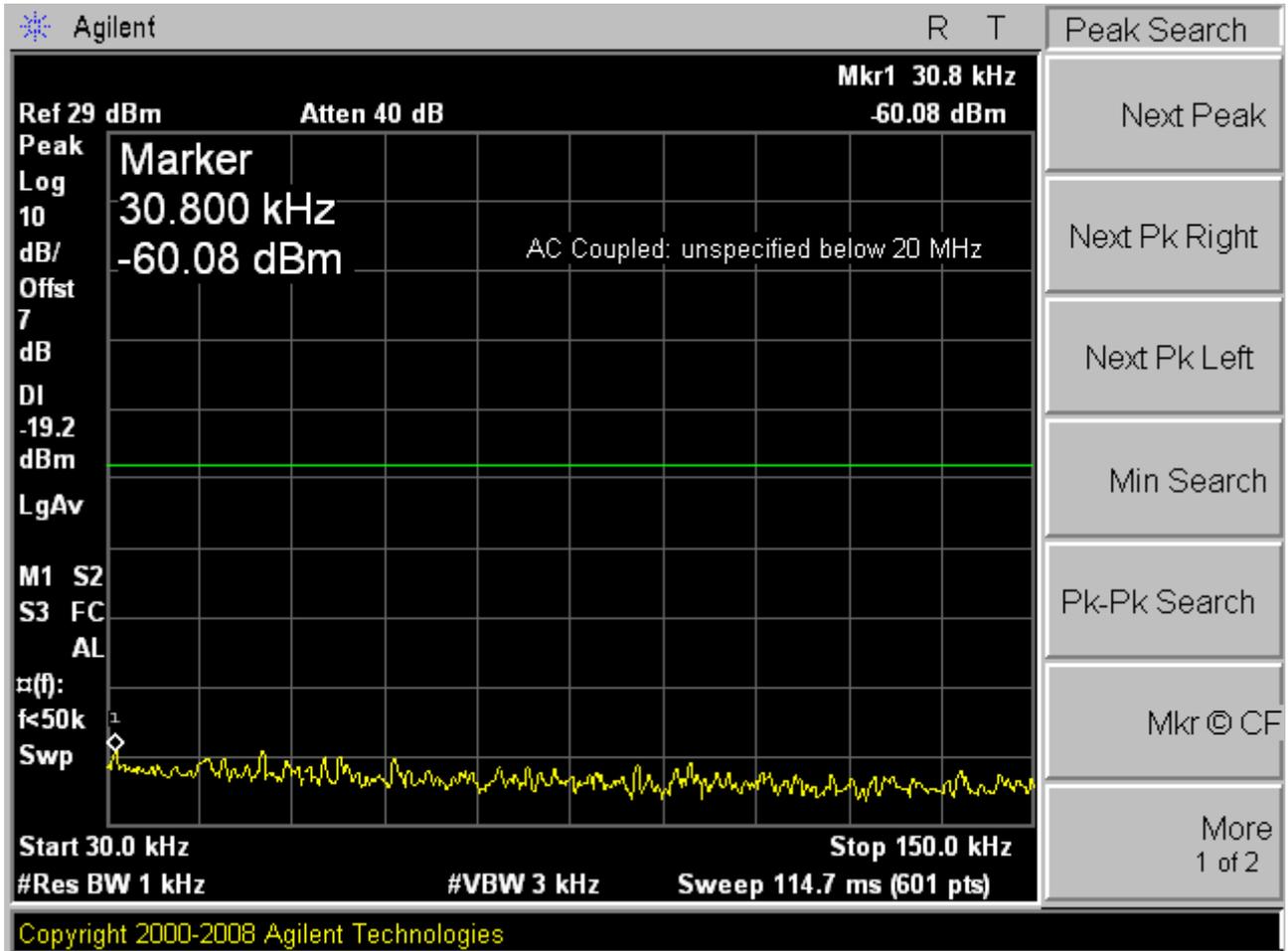


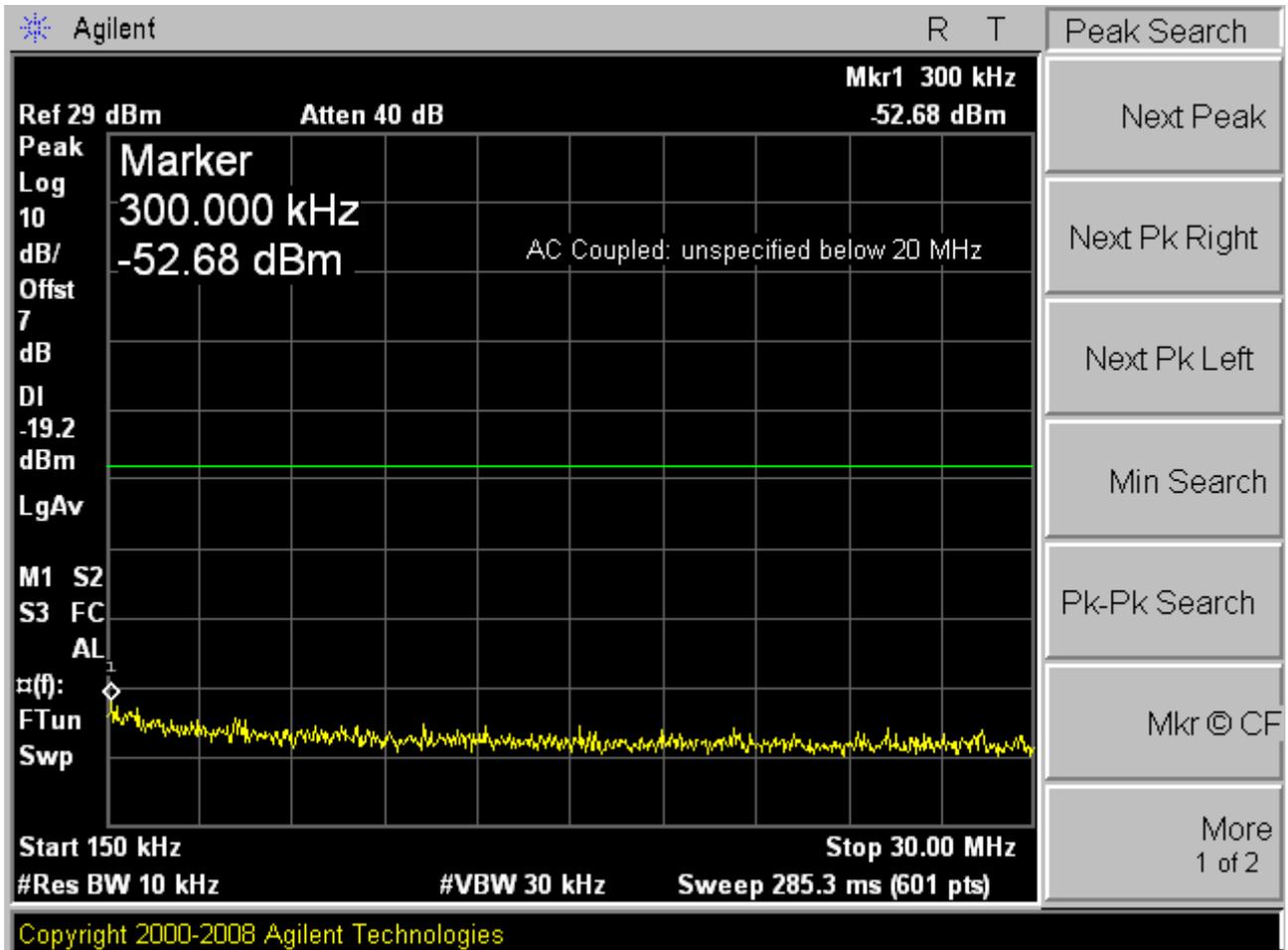


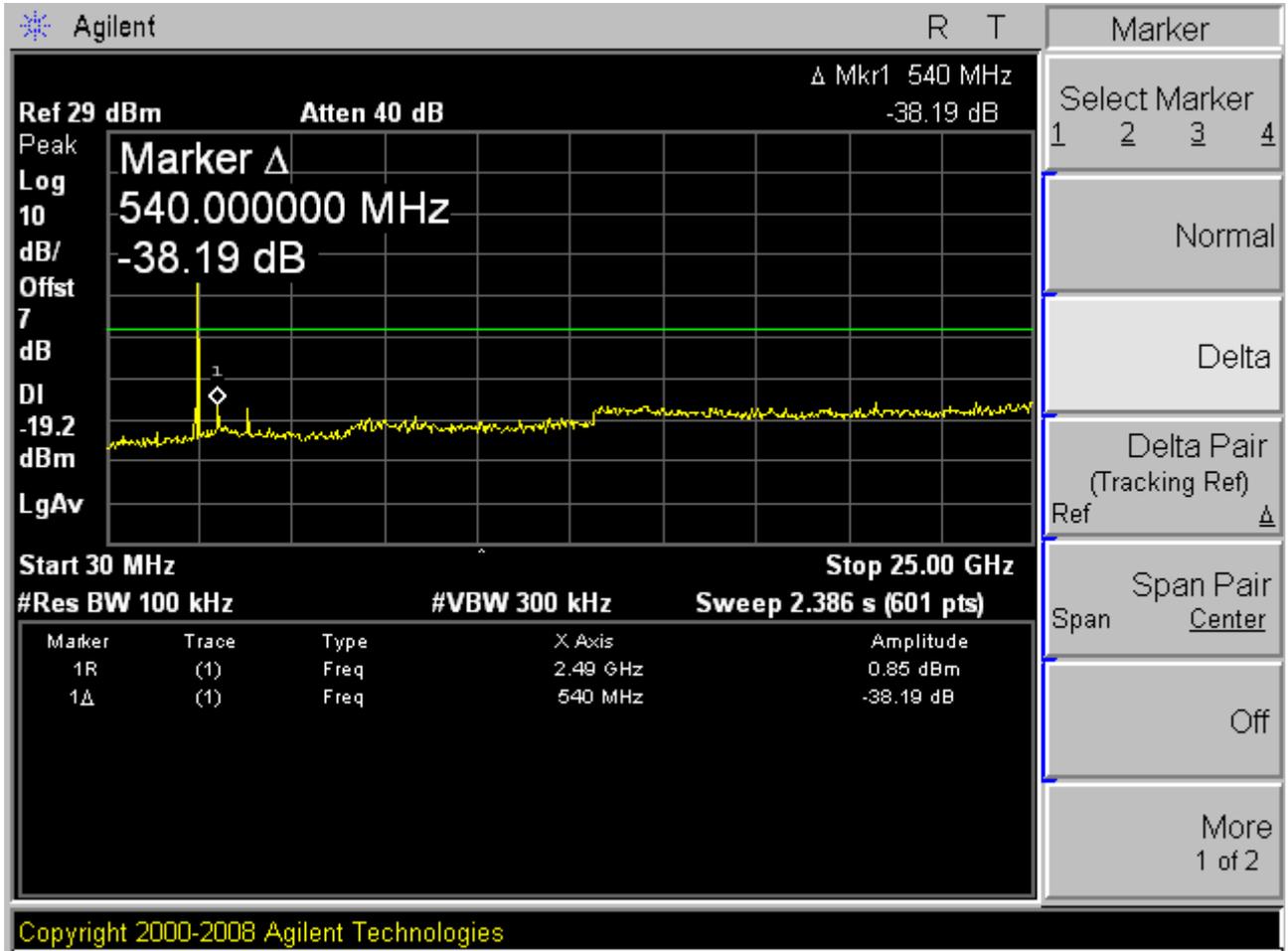




Channel 78

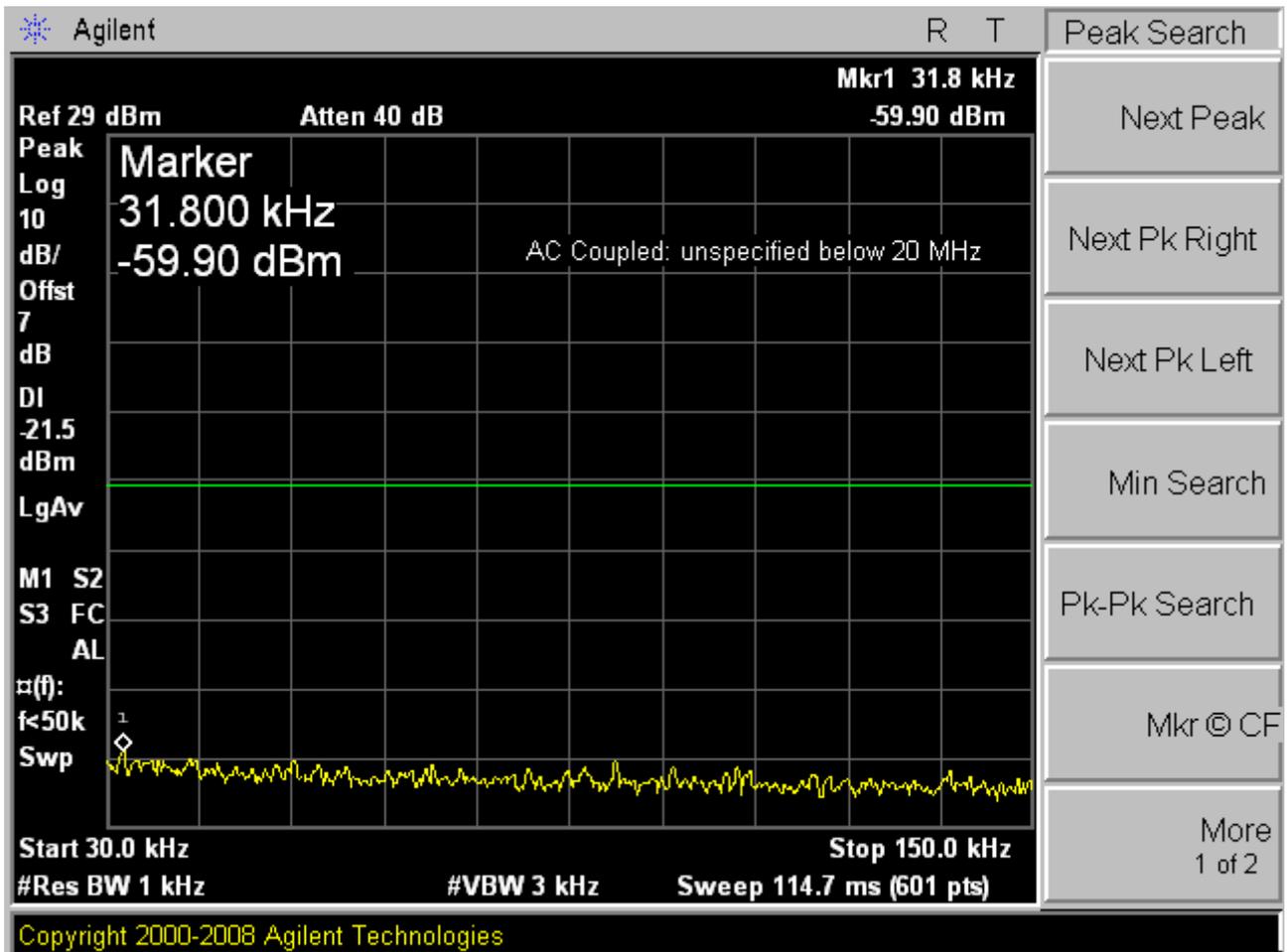


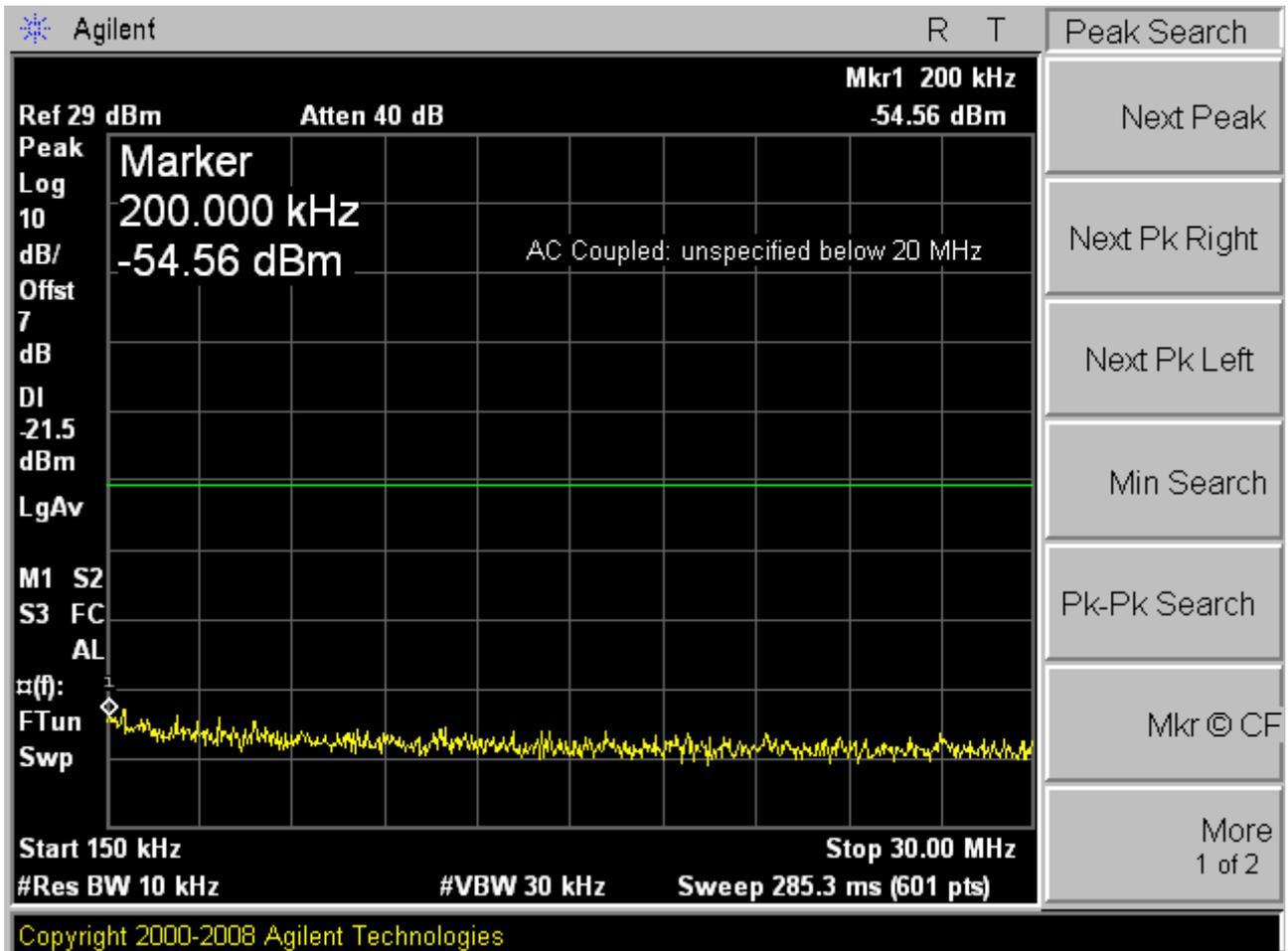


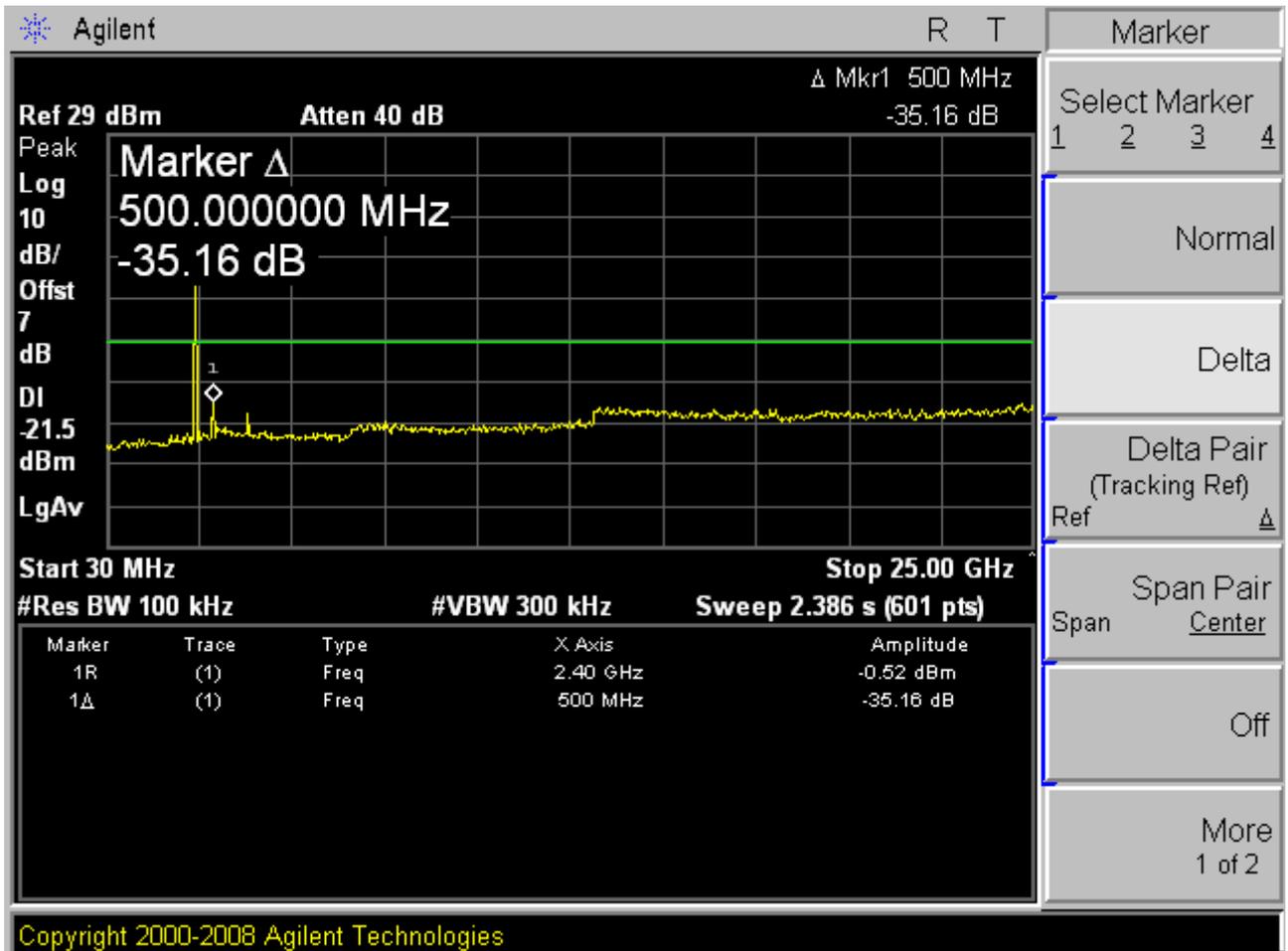




(Modulation: 8DPSK) Channel 0

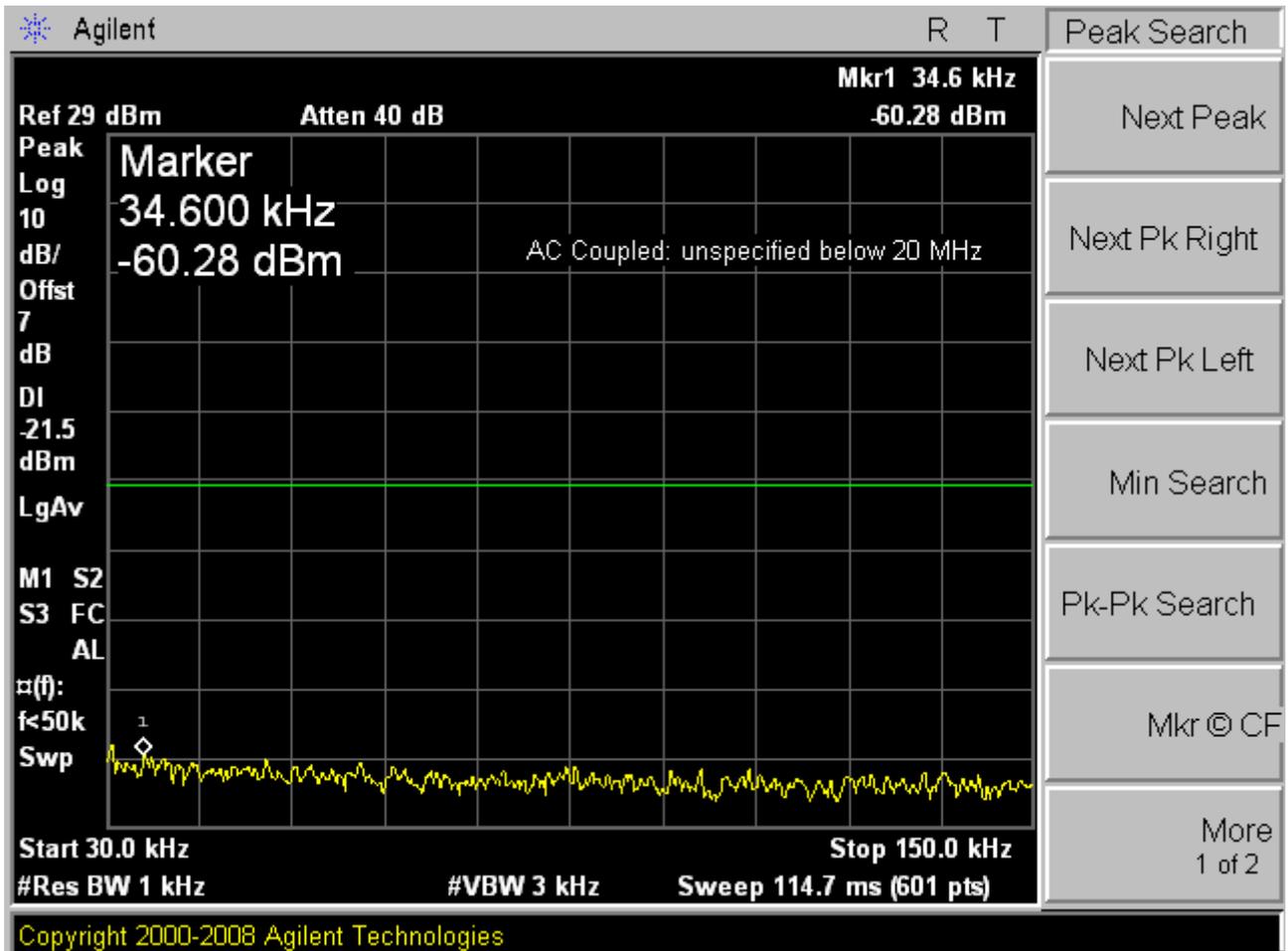


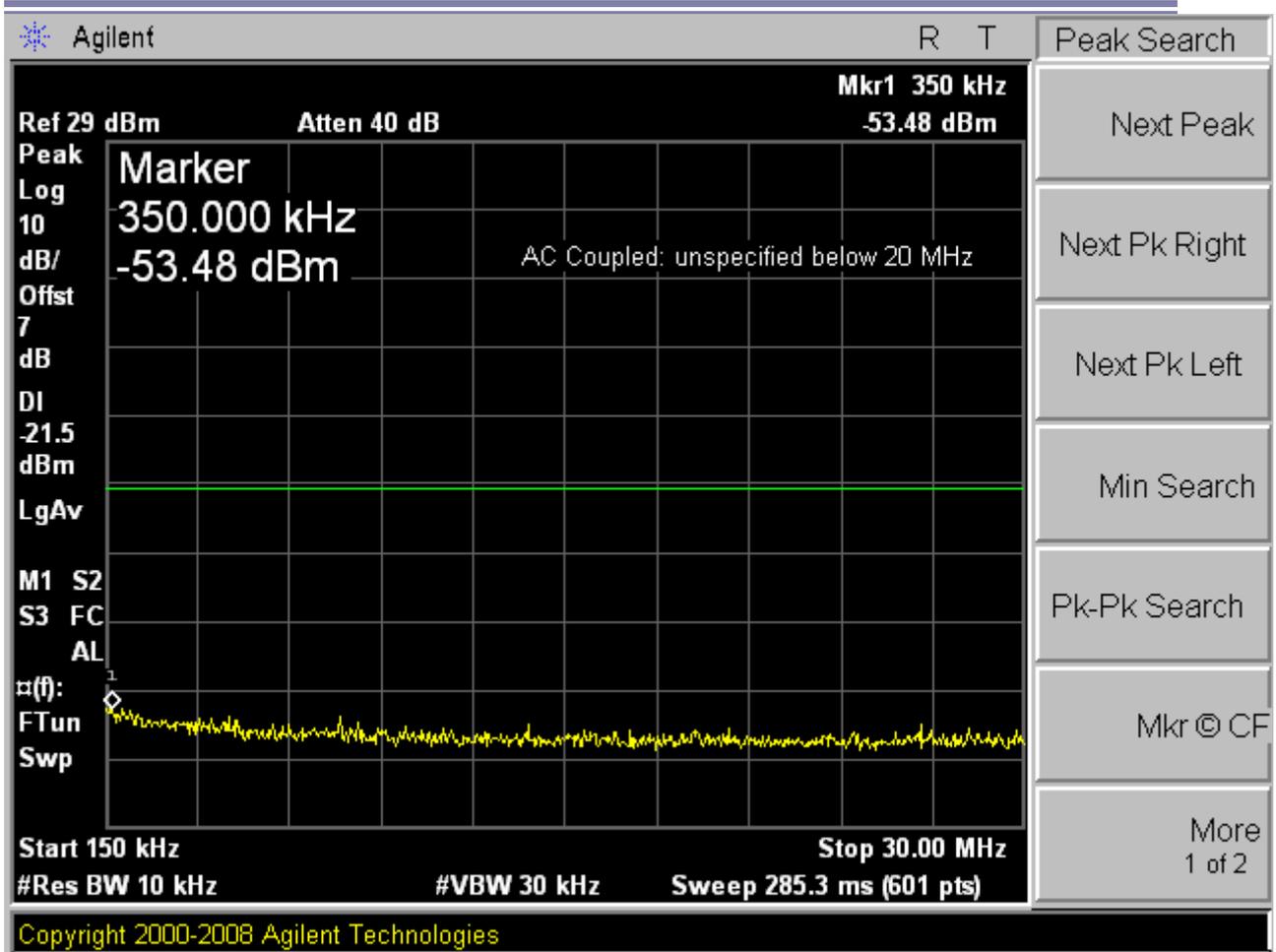


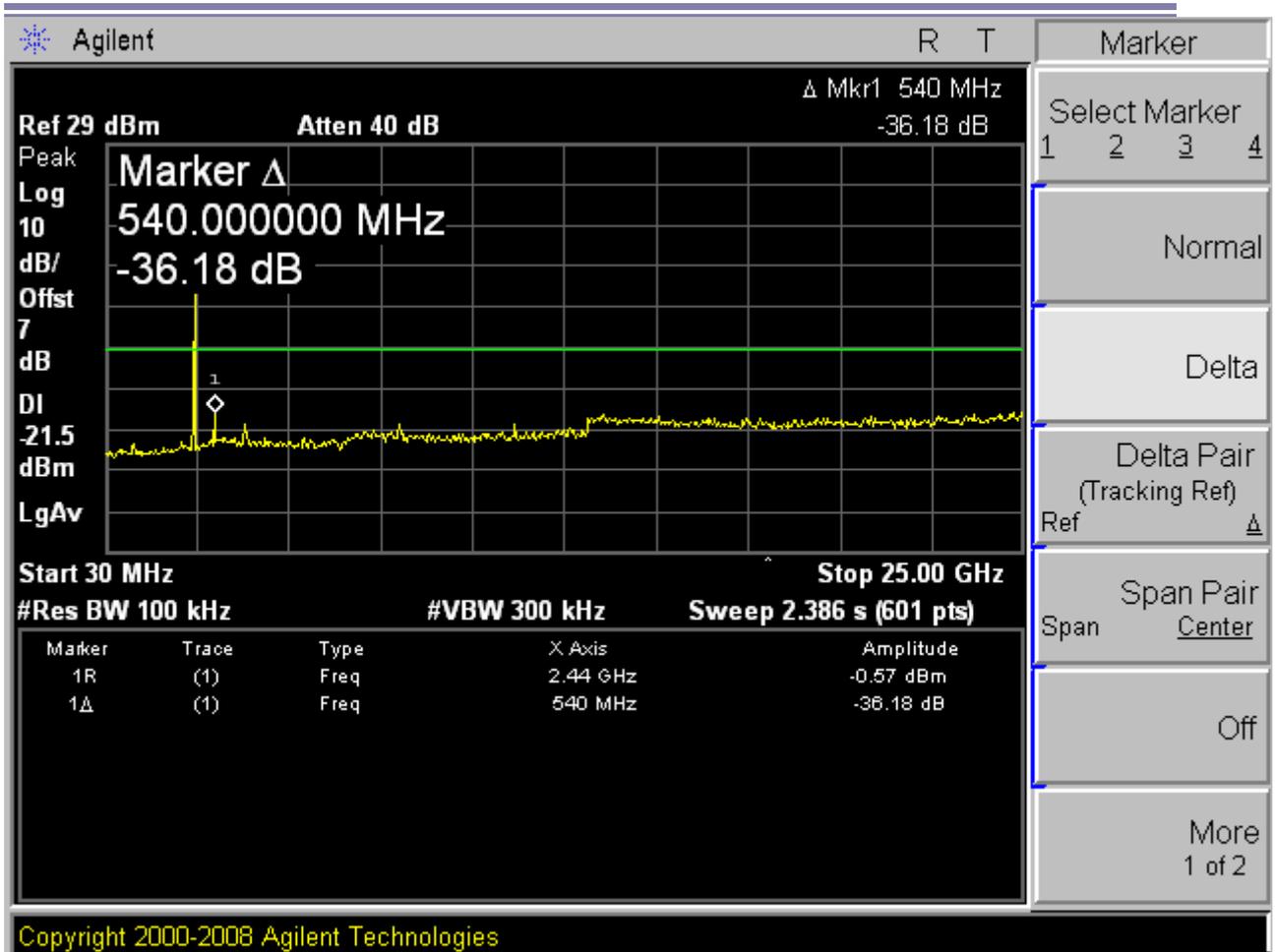




Channel 40

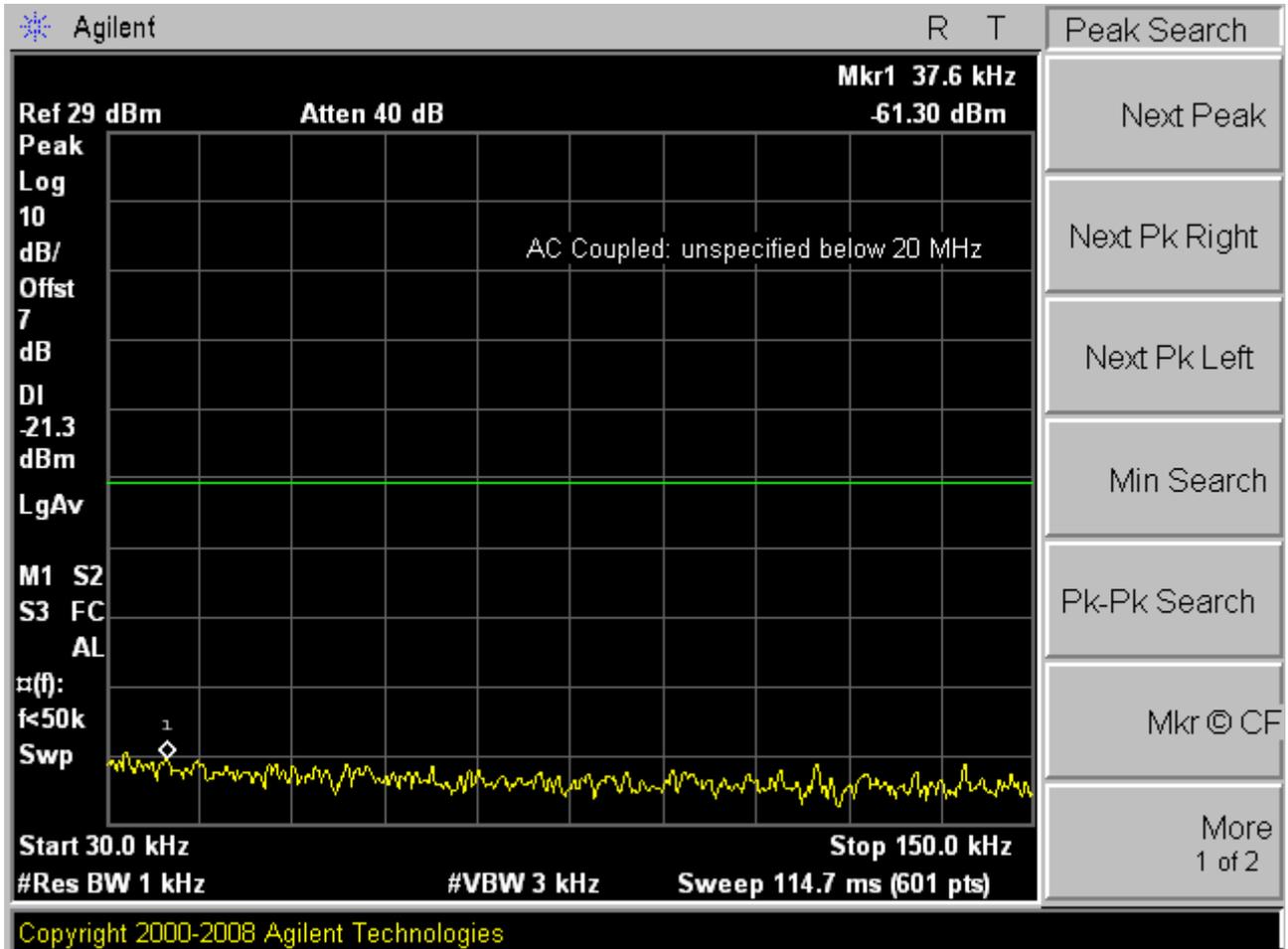


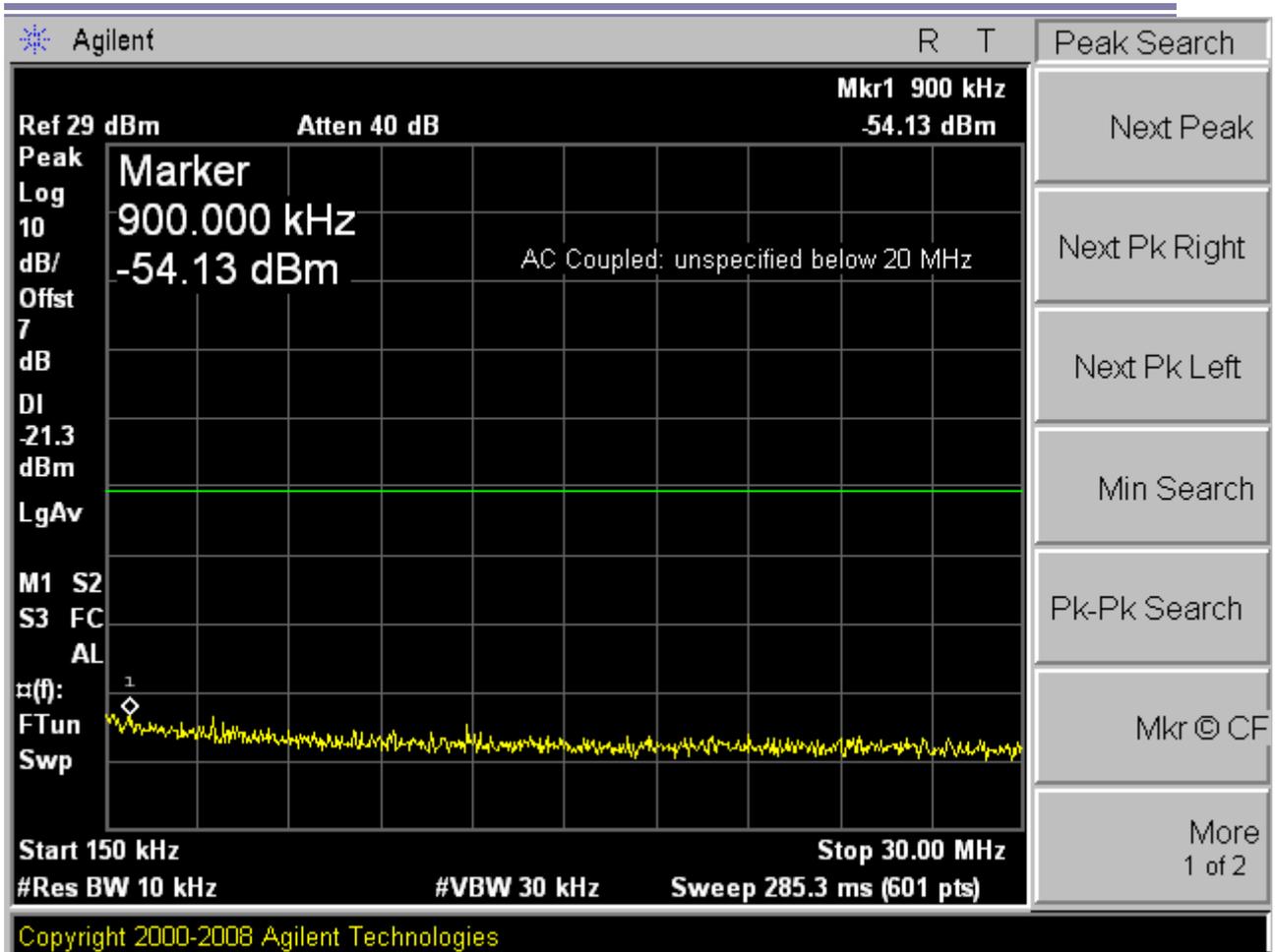


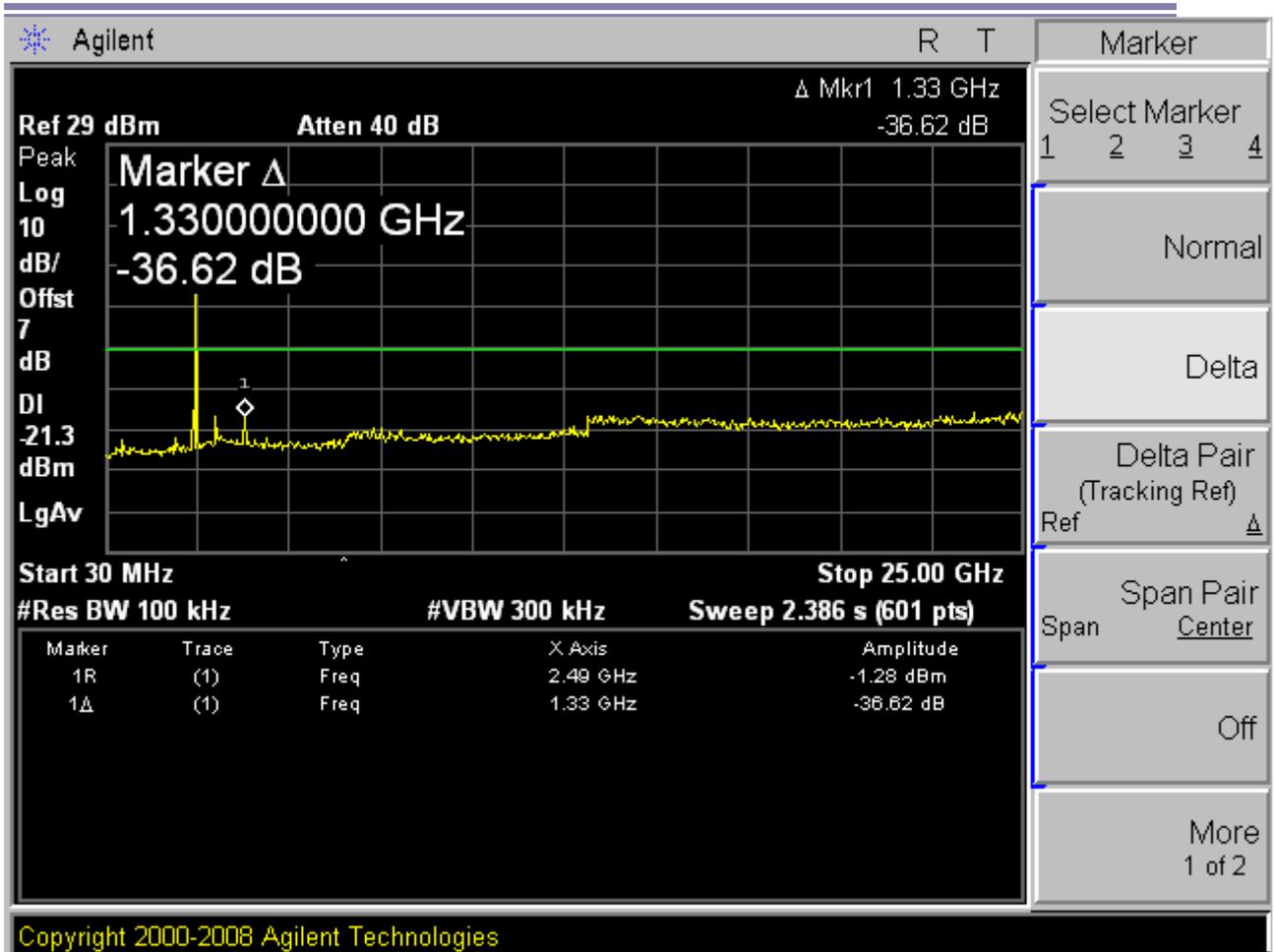




Channel 78









Appendix H

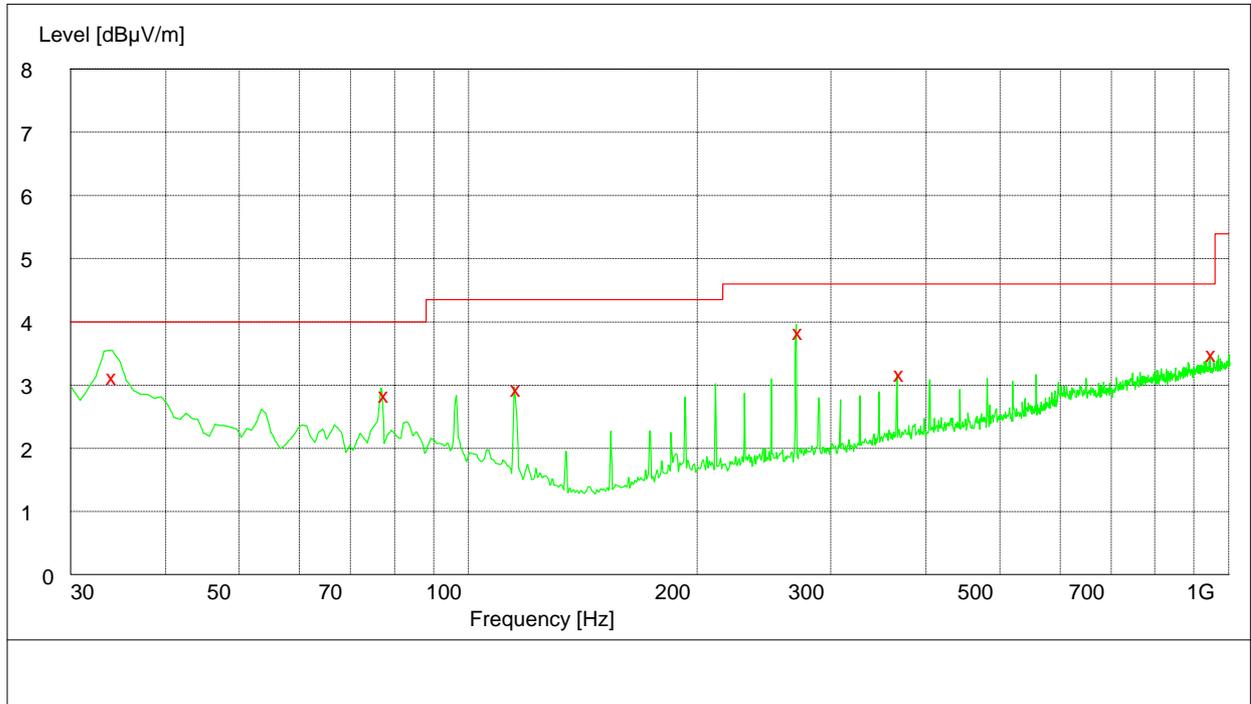
Radiated spurious emission

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



Channel 0

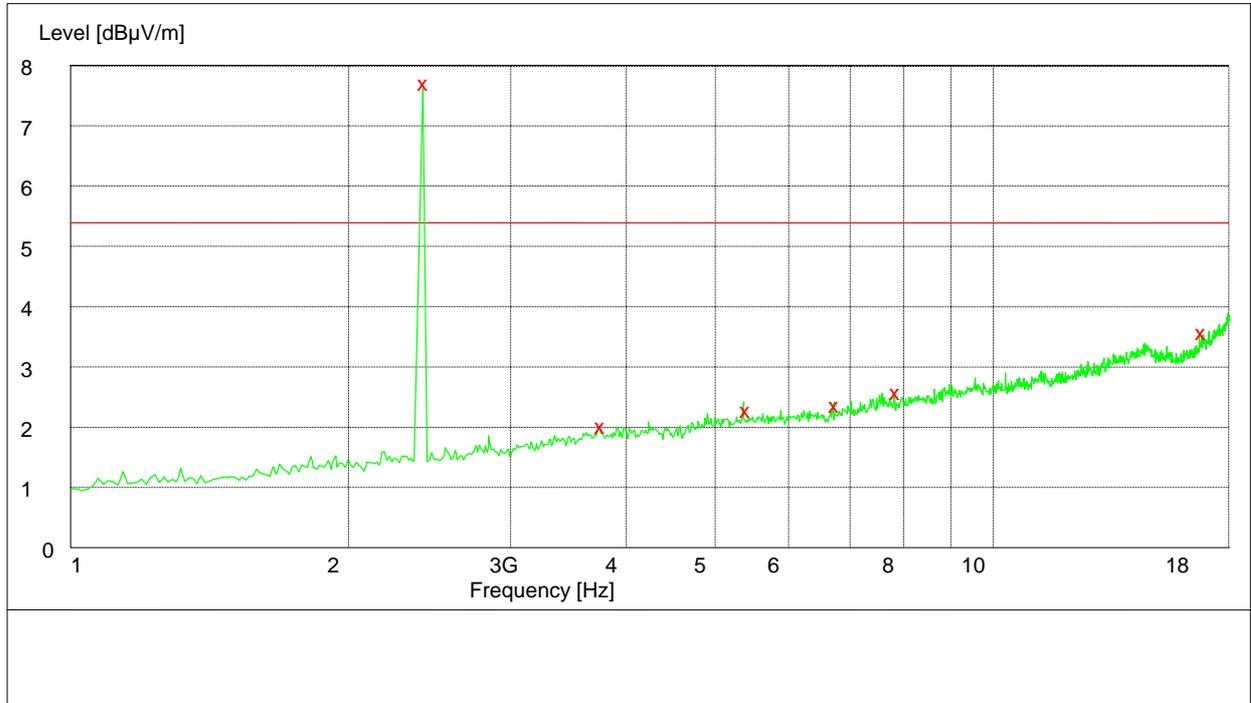
30MHz to 1GHz



Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Plarization
34.260000	30.60	11.7	40.0	9.4	216.0	120.00	HORIZONTAL
76.800000	28.10	7.9	40.0	11.9	289.0	35.00	HORIZONTAL
115.200000	29.80	11.4	43.5	13.7	199.0	311.00	VERTICAL
268.800000	38.30	14.5	46.0	8.7	119.0	49.00	HORIZONTAL
364.800000	32.10	17.4	46.0	13.9	194.0	117.00	VERTICAL
940.980000	34.70	26.5	46.0	11.3	231.0	230.00	VERTICAL



1GHz to 18GHz

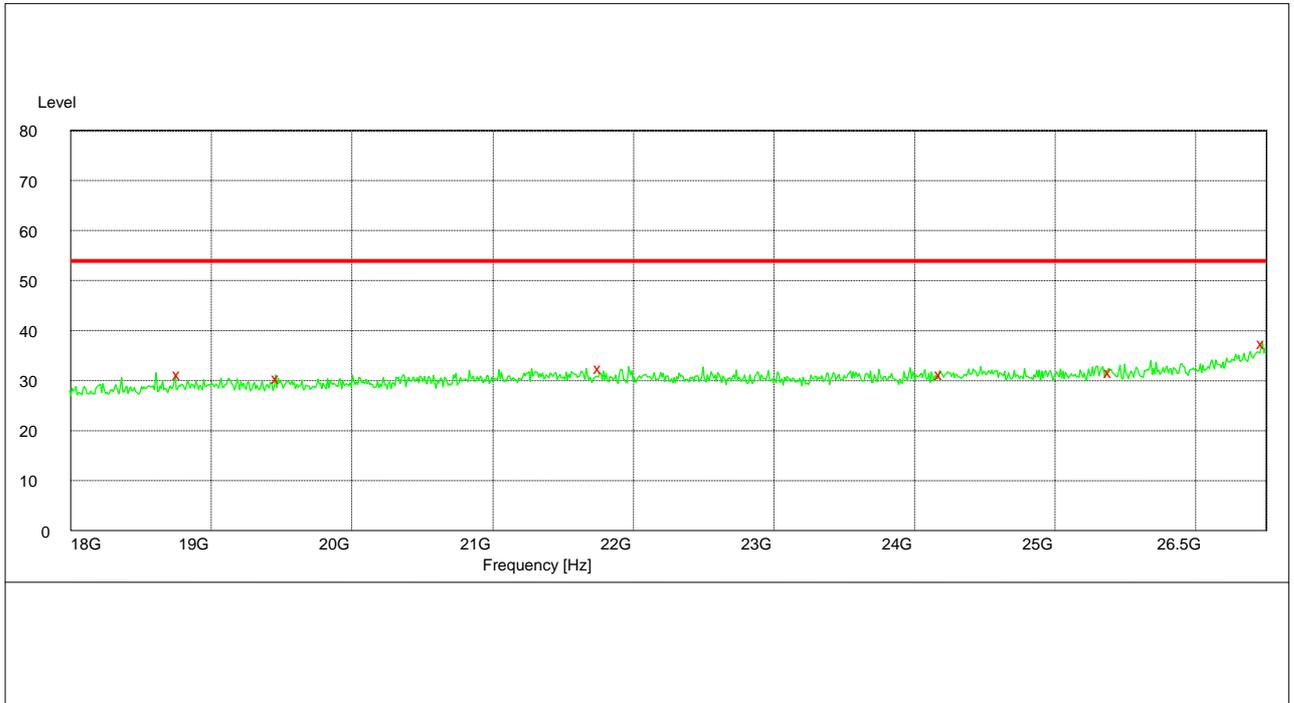


Note: The peak exceeds the limit line is carrier frequency.

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2402.000000	78.40	-11.5	54.0	-24.4	151.0	274.00	VERTICAL
3732.000000	20.00	-6.6	54.0	34.0	104.0	16.00	VERTICAL
5342.500000	22.40	-2.6	54.0	31.6	123.0	21.00	VERTICAL
6679.000000	23.10	-0.7	54.0	30.9	198.0	268.00	HORIZONTAL
7792.500000	26.10	1.8	54.0	27.9	127.0	113.00	VERTICAL
16691.000000	36.20	12.3	54.0	17.8	177.0	196.00	HORIZONTAL



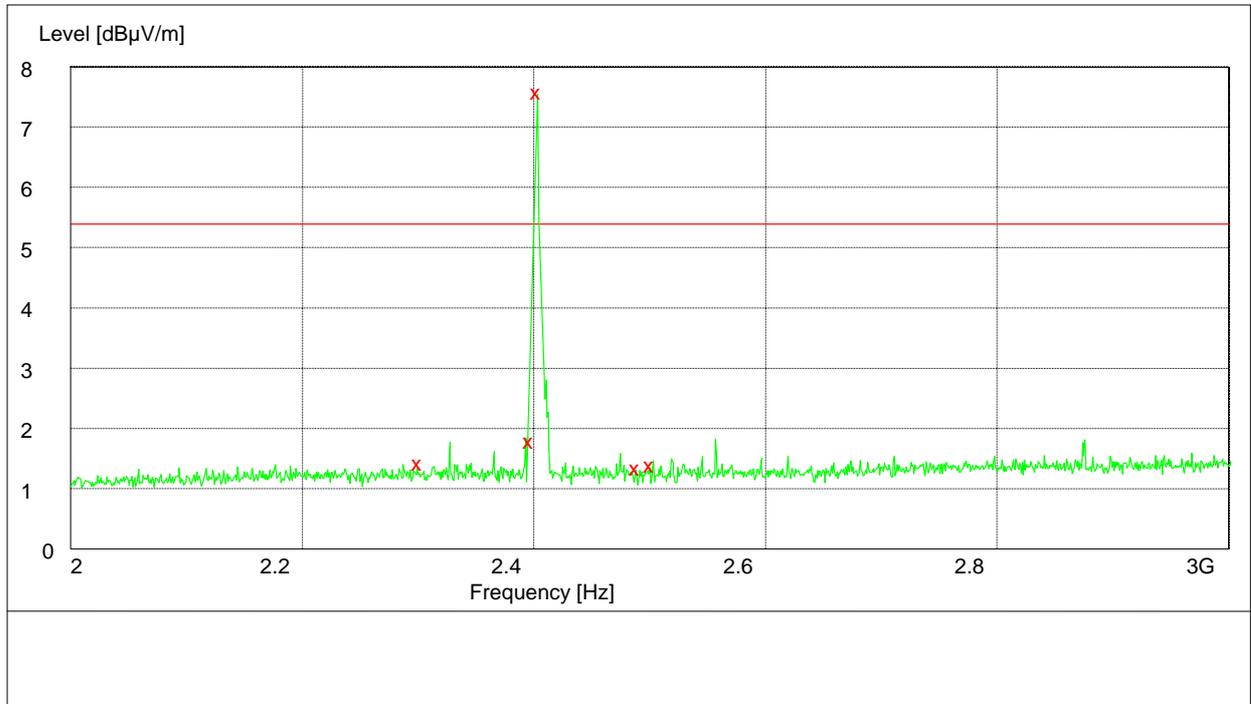
18GHz to 26GHz



Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Height cm	Azimuth deg	Polarization
18774.000000	30.90	18.5	54.0	23.1	171.0	196.00	HORIZONTAL
19495.000000	30.00	18.9	54.0	24.0	195.0	3.00	VERTICAL
21787.000000	32.10	20.5	54.0	21.9	174.0	296.00	HORIZONTAL
24196.000000	30.80	21.5	54.0	23.2	107.0	49.00	VERTICAL
25283.000000	30.80	23.1	54.0	23.2	196.0	311.00	VERTICAL
26491.000000	38.20	27.9	54.0	15.8	105.0	83.00	VERTICAL



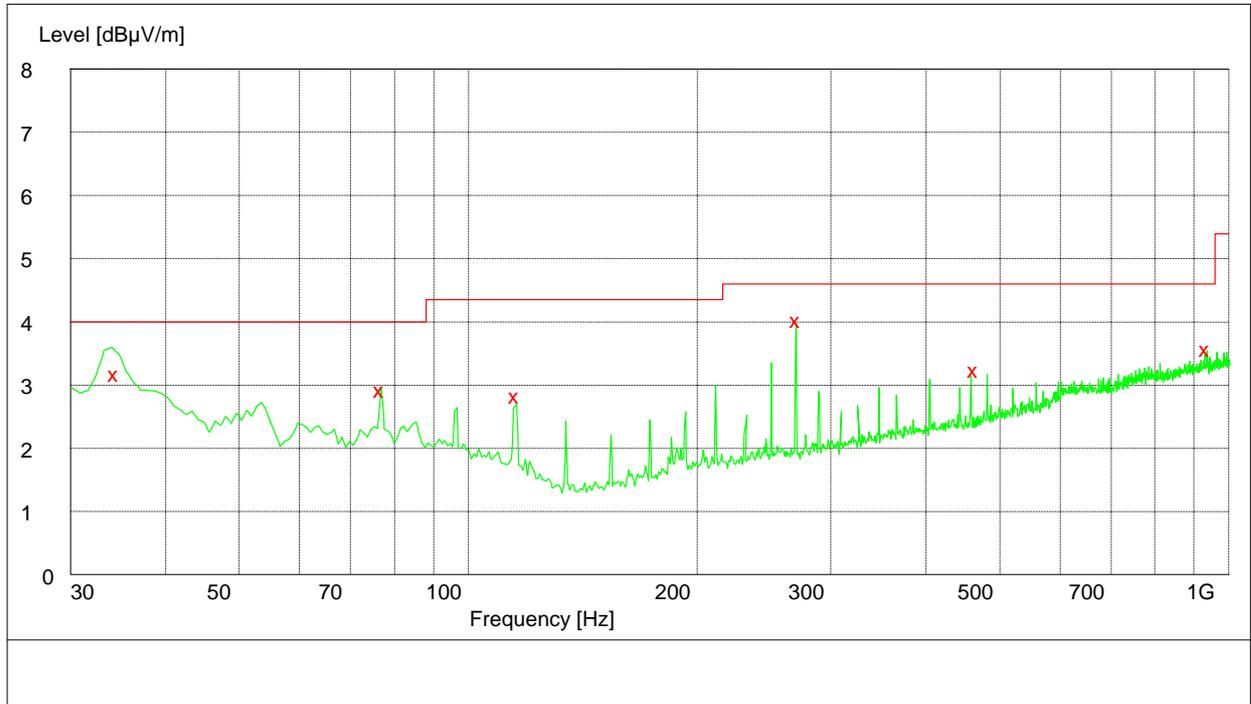
2GHz to 3GHz



Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2310.000000	13.3	-11.9	54.0	40.7	114.0	128.00	VERTICAL
2390.000000	18.6	-11.6	54.0	35.4	123.0	197.00	HORIZONTAL
2402.000000	77.1	-11.5	54.0	-23.1	188.0	1.00	VERTICAL
2483.500000	12.6	-11.3	54.0	41.4	121.0	4.00	VERTICAL
2500.000000	13.1	-11.1	54.0	40.9	151.0	116.00	VERTICAL



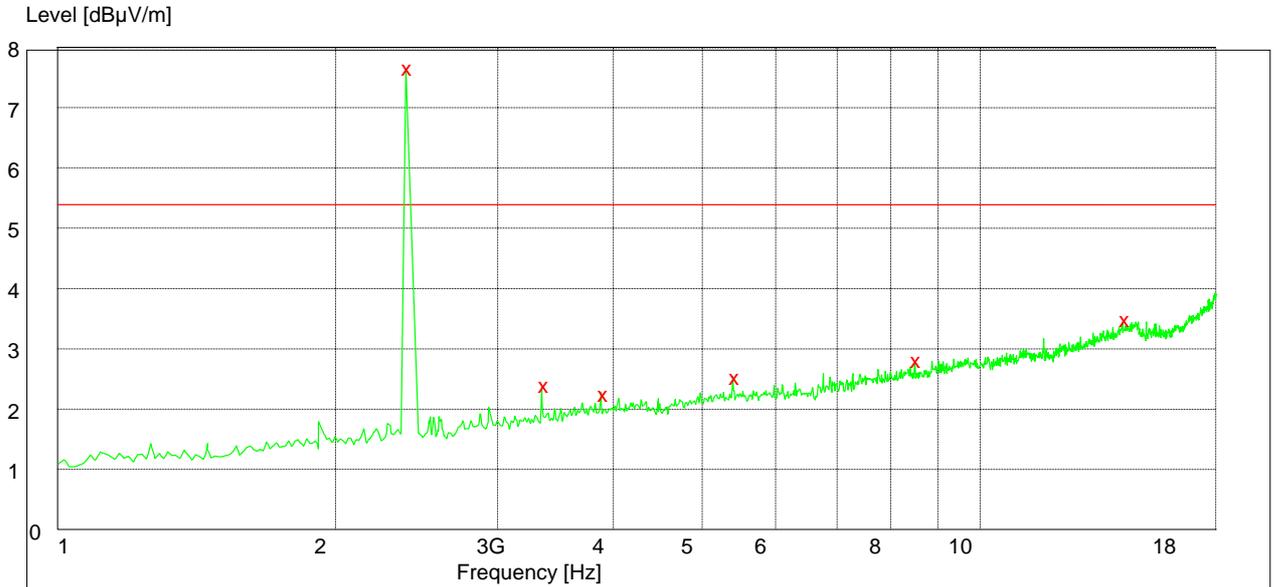
Channel 40 30MHz to 1GHz



Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
34.380000	32.00	11.7	40.0	8.0	180.0	249.00	VERTICAL
76.800000	29.60	7.9	40.0	10.4	152.0	156.00	HORIZONTAL
115.200000	28.50	11.4	43.5	15.0	255.0	76.00	HORIZONTAL
268.800000	40.00	14.5	46.0	6.0	167.0	258.00	VERTICAL
455.940000	31.80	19.0	46.0	14.2	279.0	17.00	VERTICAL
934.500000	35.80	26.5	46.0	10.2	157.0	358.00	HORIZONTAL



1GHz to 18GHz

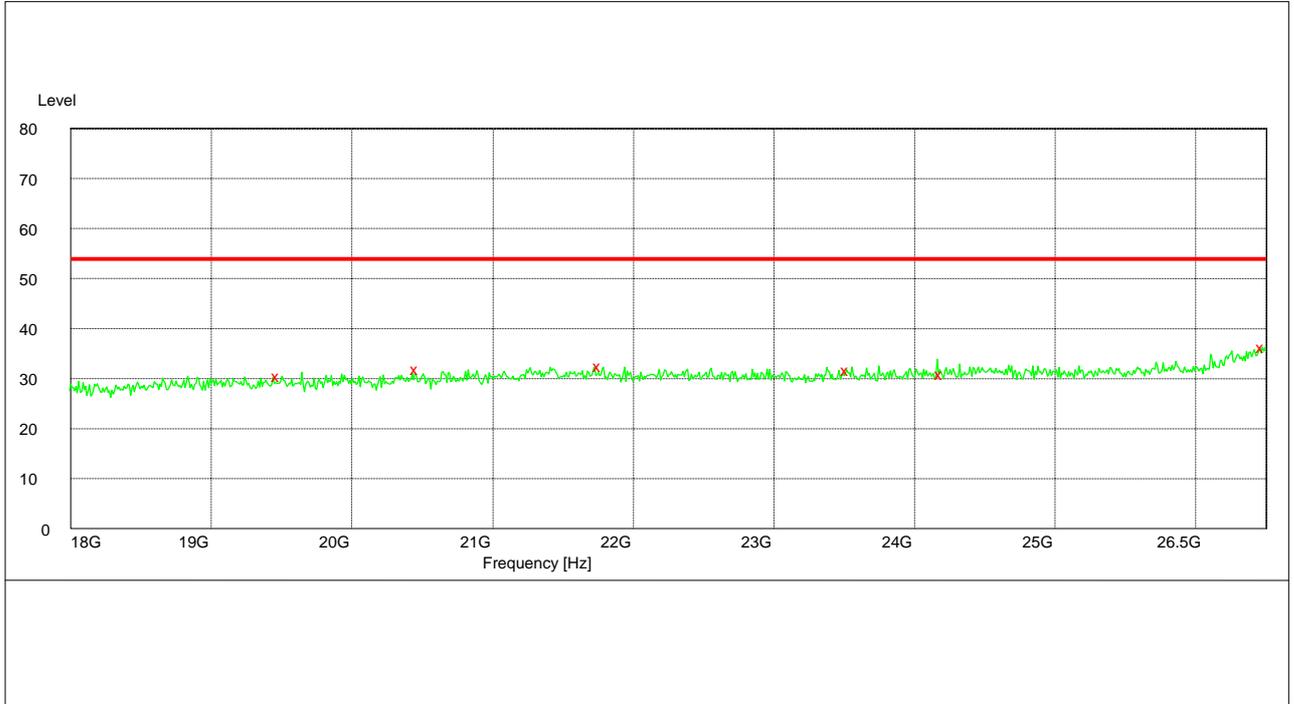


Note: The peak exceeds the limit line is carrier frequency.

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2442.000000	77.7	-11.4	54.0	-23.7	139.0	209.00	HORIZONTAL
3346.000000	23.9	-7.9	54.0	30.1	123.0	8.00	VERTICAL
3872.000000	22.2	-6.2	54.0	31.8	107.0	188.00	VERTICAL
5384.000000	24.8	-2.5	54.0	29.2	142.0	300.00	HORIZONTAL
8466.000000	28.5	3.0	54.0	25.5	144.0	355.00	VERTICAL
14229.000000	34.9	11.5	54.0	19.1	168.0	118.00	VERTICAL



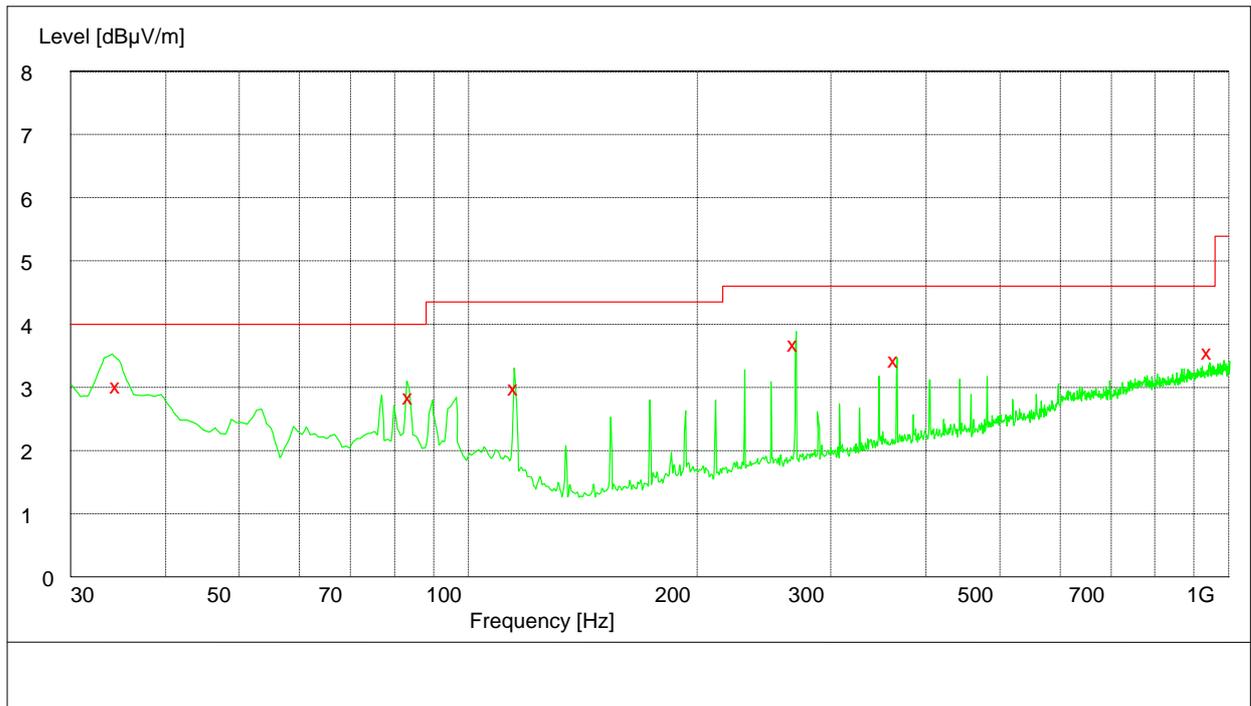
18GHz to 26GHz



Frequency MHz	Level dB μ V/m	Transd dB	Limit dB μ V/m	Margin dB	Height cm	Azimuth deg	Polarization
19485.000000	30.00	18.9	54.0	24.0	149.0	12.00	VERTICAL
20482.000000	32.10	19.7	54.0	21.9	105.0	328.00	VERTICAL
21787.000000	32.40	20.5	54.0	21.6	157.0	219.00	VERTICAL
23535.000000	31.40	20.5	54.0	22.6	107.0	155.00	HORIZONTAL
24201.000000	30.50	21.5	54.0	23.5	134.0	241.00	VERTICAL
26495.000000	36.60	27.9	54.0	17.4	116.0	327.00	HORIZONTAL



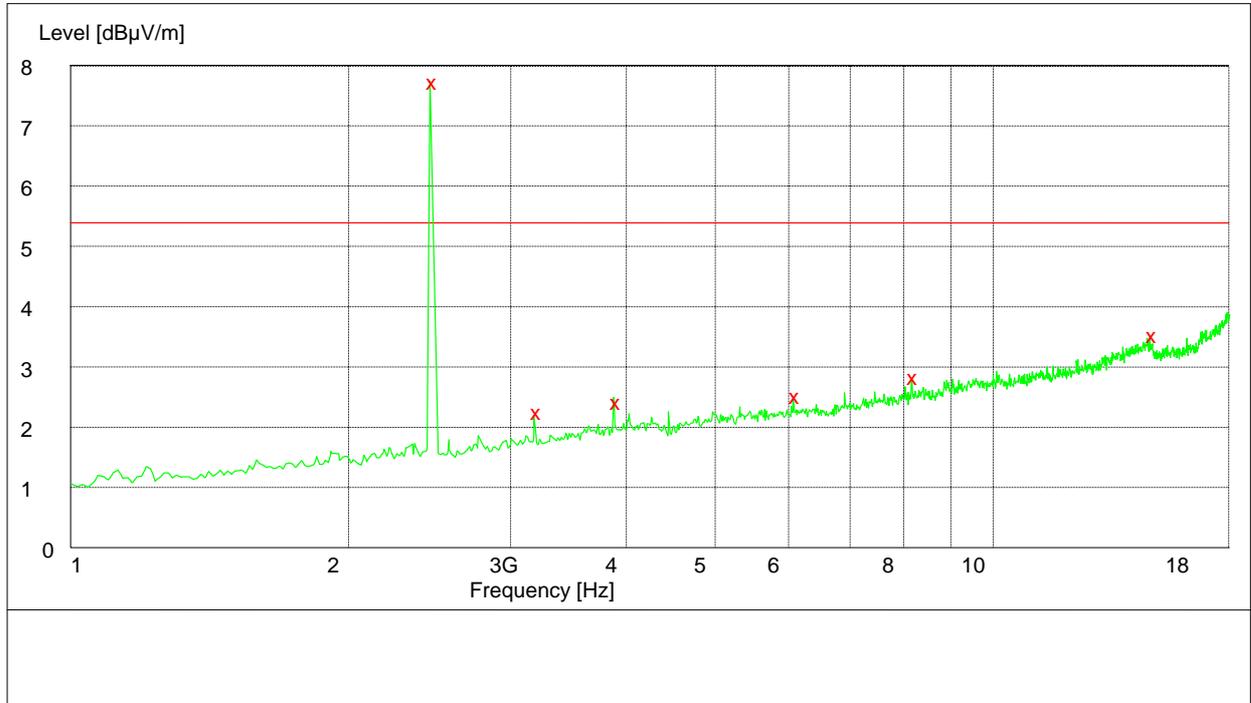
Channel 78 30MHz to 1GHz



Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
34.560000	30.00	11.7	40.0	10.0	160.0	283.00	HORIZONTAL
83.580000	29.30	9.7	40.0	10.7	158.0	90.00	HORIZONTAL
115.200000	29.90	11.4	43.5	13.6	160.0	16.00	VERTICAL
268.800000	37.20	14.5	46.0	8.8	203.0	349.00	VERTICAL
364.800000	34.70	17.4	46.0	11.3	132.0	55.00	VERTICAL
942.060000	35.40	26.5	46.0	10.6	176.0	137.00	HORIZONTAL



1GHz to 18GHz

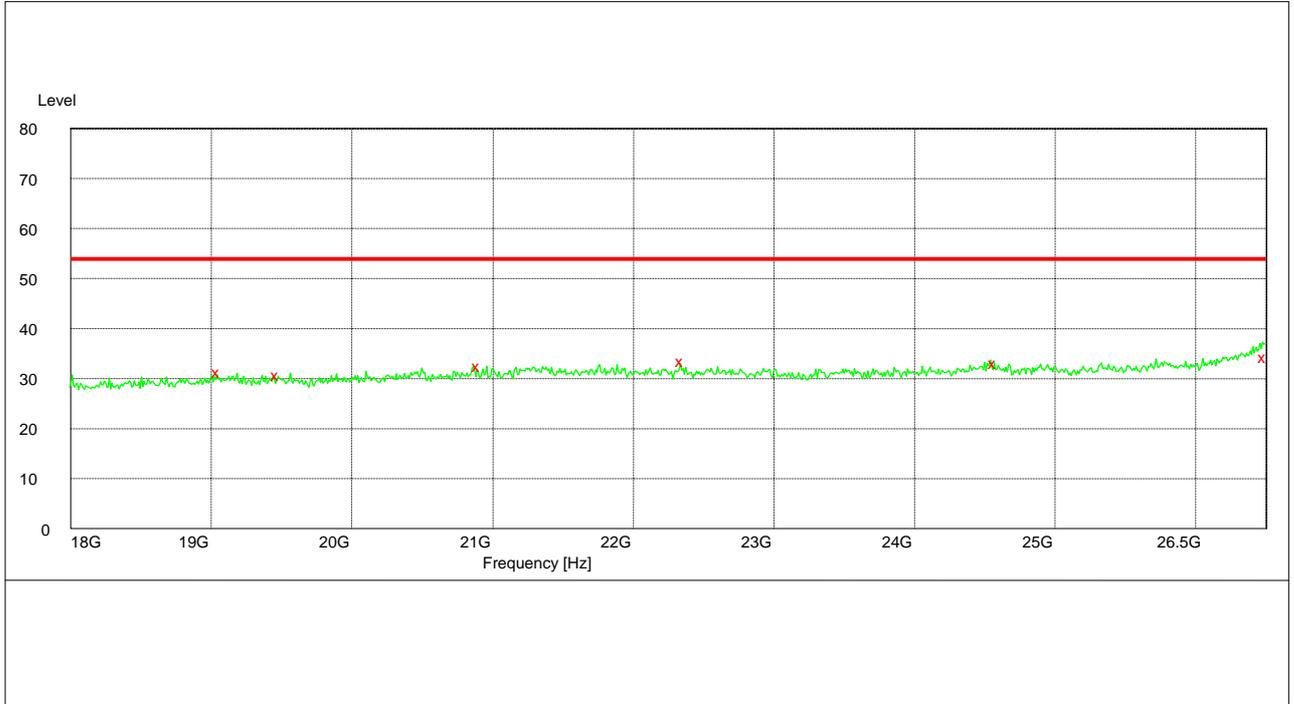


Note: The peak exceeds the limit line is carrier frequency.

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2480.000000	78.5	-11.3	54.0	-24.5	115.0	189.00	HORIZONTAL
3183.000000	22.3	-8.3	54.0	31.7	158.0	317.00	HORIZONTAL
3868.000000	23.7	-6.2	54.0	30.3	127.0	246.00	HORIZONTAL
6055.000000	25.1	-1.5	54.0	28.9	182.0	311.00	HORIZONTAL
8141.000000	28.7	2.4	54.0	25.3	168.0	28.00	HORIZONTAL
14750.500000	35.3	11.5	54.0	18.7	177.0	246.00	VERTICAL



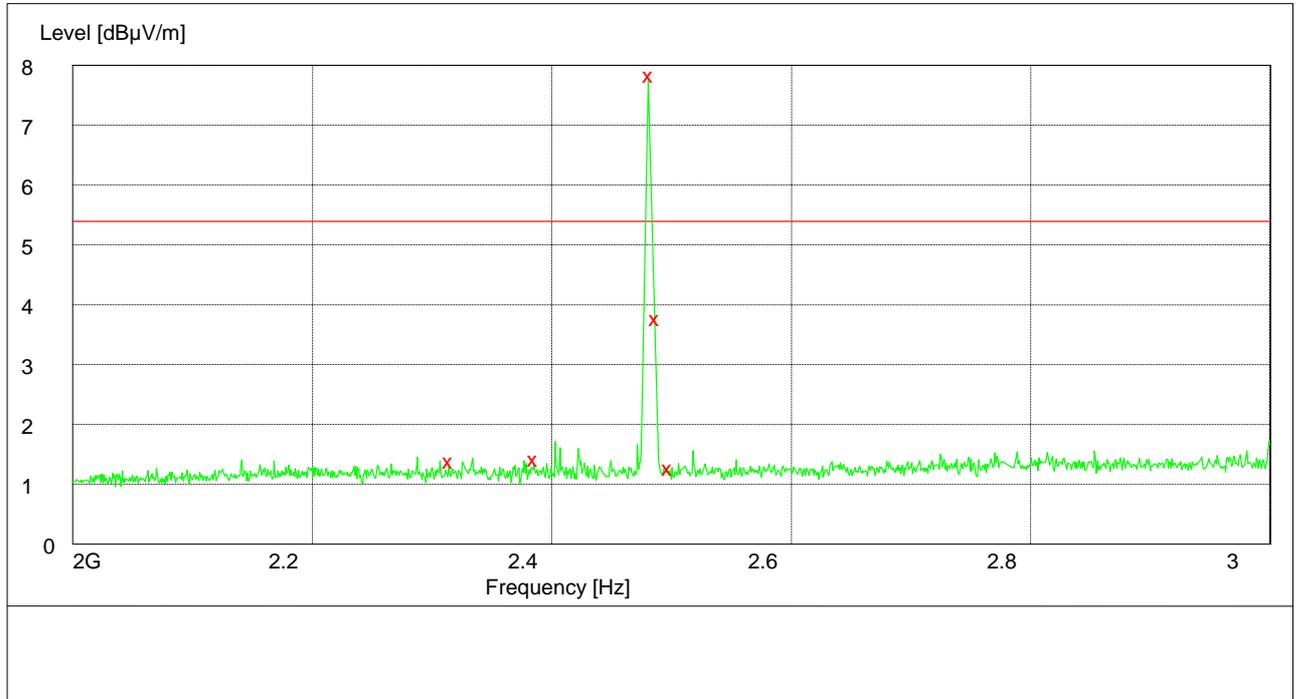
18GHz to 26GHz



Frequency MHz	Level dB μ V/m	Transd dB	Limit dB μ V/m	Margin dB	Height cm	Azimuth deg	Polarization
19012.500000	31.10	18.6	54.0	22.9	145.0	63.00	HORIZONTAL
19487.000000	30.20	18.9	54.0	23.8	183.0	251.00	HORIZONTAL
20895.000000	32.50	20.2	54.0	21.5	173.0	122.00	VERTICAL
22460.000000	33.40	20.3	54.0	20.6	139.0	145.00	HORIZONTAL
24583.000000	32.40	22.0	54.0	21.6	119.0	30.00	VERTICAL
26496.000000	34.30	27.9	54.0	19.7	129.0	195.00	HORIZONTAL



2GHz to 3GHz



Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2310.000000	13.1	-11.9	54.0	40.9	148.0	281.00	HORIZONTAL
2390.000000	13.2	-11.6	54.0	40.8	185.0	33.00	HORIZONTAL
2480.000000	78.4	-11.3	54.0	-24.4	194.0	196.00	VERTICAL
2483.500000	37.2	-11.3	54.0	16.8	115.0	137.00	HORIZONTAL
2500.000000	12.5	-11.1	54.0	41.5	101.0	166.00	VERTICAL



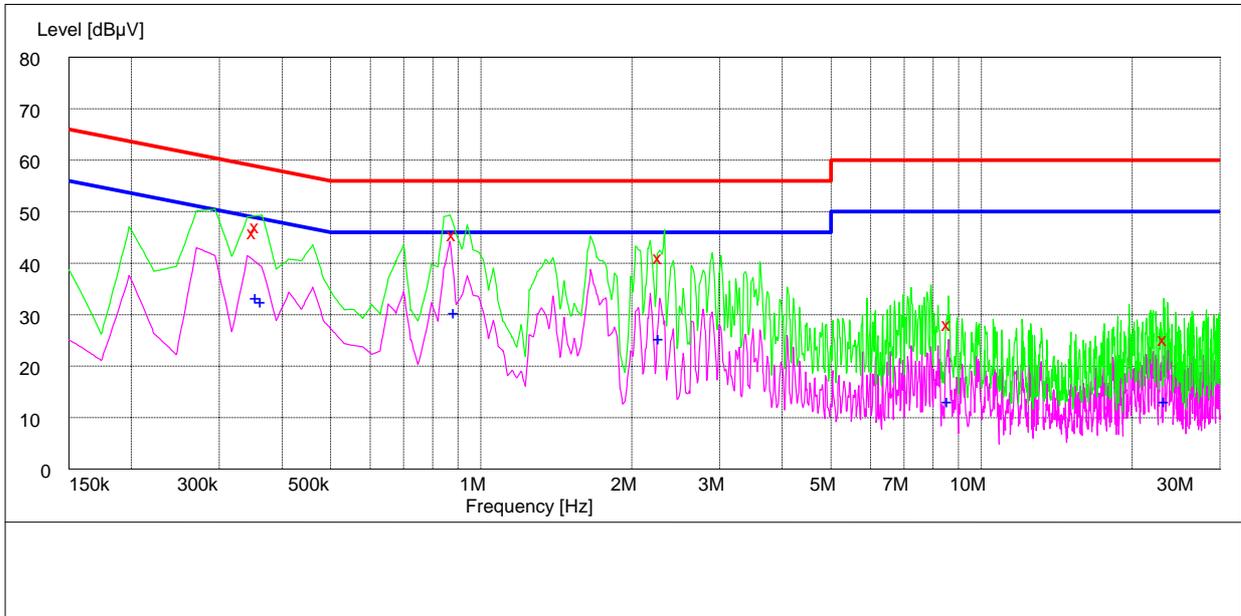
Appendix I

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

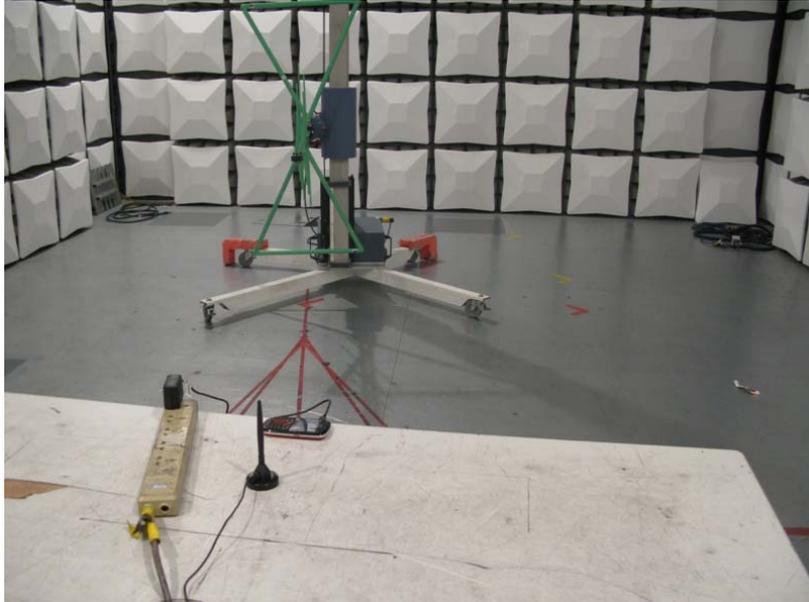


Appendix J

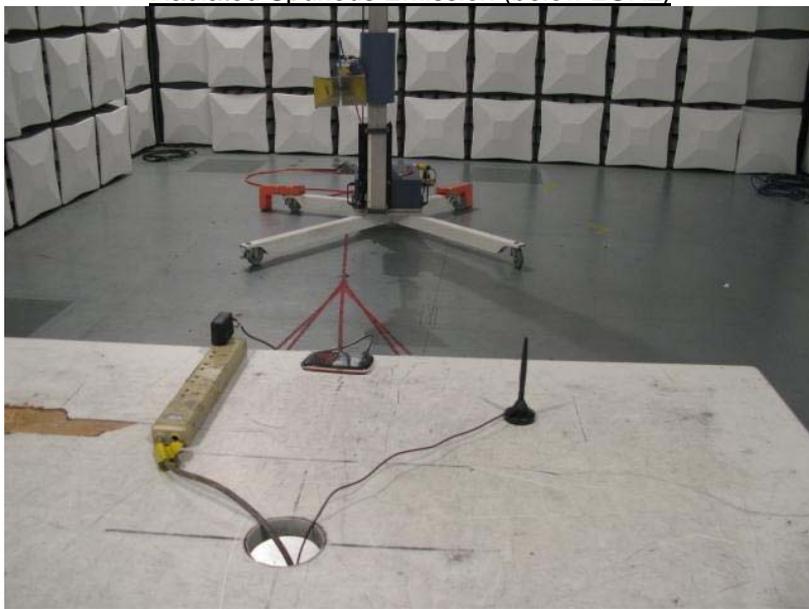
Photos of Test Setup



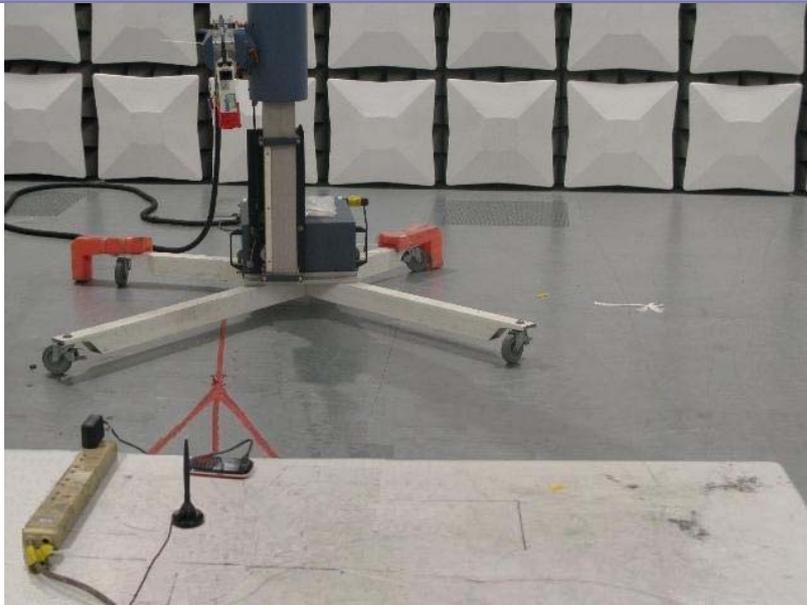
1 Radiated Spurious Emissions



Radiated Spurious Emission (below 2GHz)



Radiated Spurious Emission (2GHz to18GHz)



Radiated Spurious Emission (above 18GHz)

2 Conducted Emissions



Conducted Emissions for AC Ports