



Appendix A

20dB bandwidth measurement

According to FCC Part 15.247 (a) (1)



Channel 0 (2402MHz)





Channel 40 (2442MHz)

Agilent
R T

Ch Freq 2.442 GHz **Trig** Free

Occupied Bandwidth

Center Freq
2.44200000 GHz

Start Freq
2.44100000 GHz

Stop Freq
2.44300000 GHz

CF Step
200.000000 kHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

Ref 20 dBm #Atten 30 dB

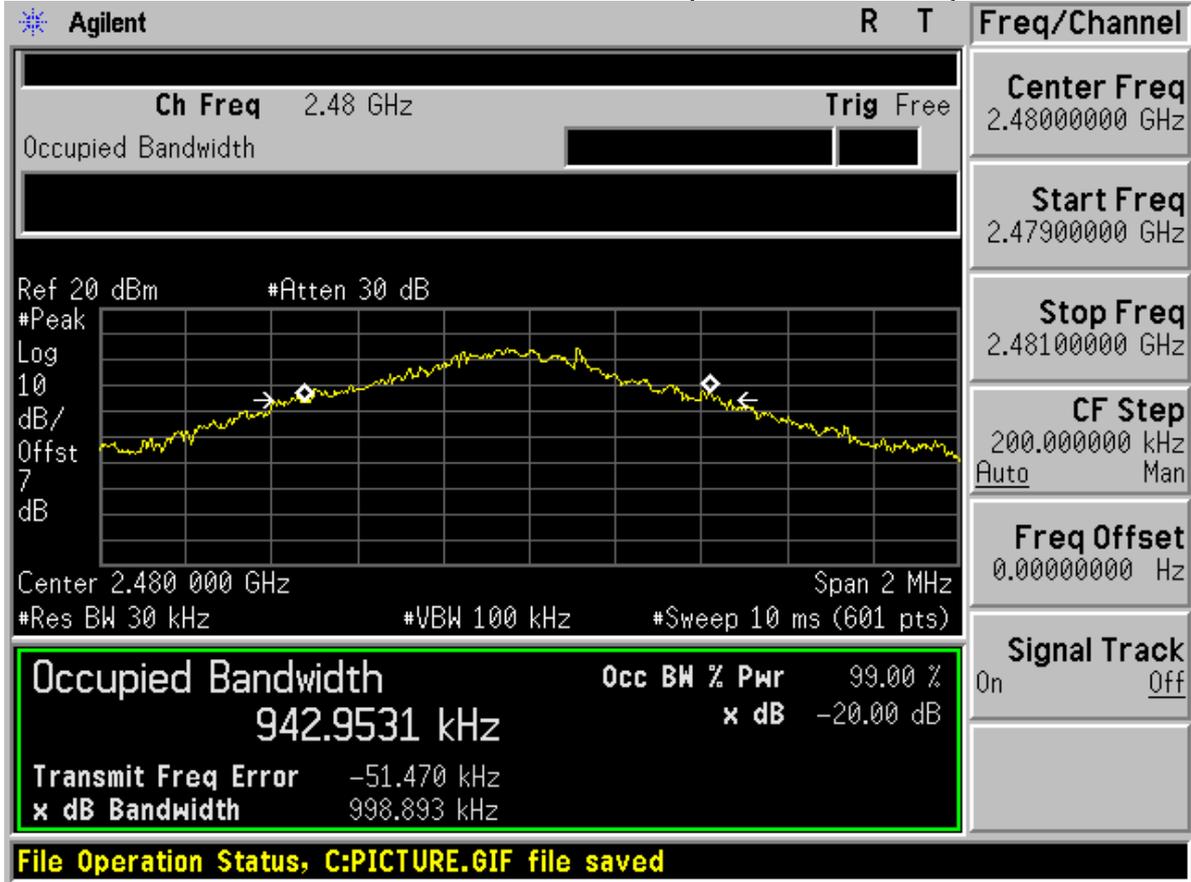
Center 2.442 000 GHz Span 2 MHz
 #Res BW 30 kHz #VBW 100 kHz #Sweep 10 ms (601 pts)

Occupied Bandwidth	Occ BW % Pwr 99.00 %
939.0519 kHz	x dB -20.00 dB
Transmit Freq Error	-48.686 kHz
x dB Bandwidth	955.062 kHz

File Operation Status, C:PICTURE.GIF file saved



Channel 78 (2480MHz)





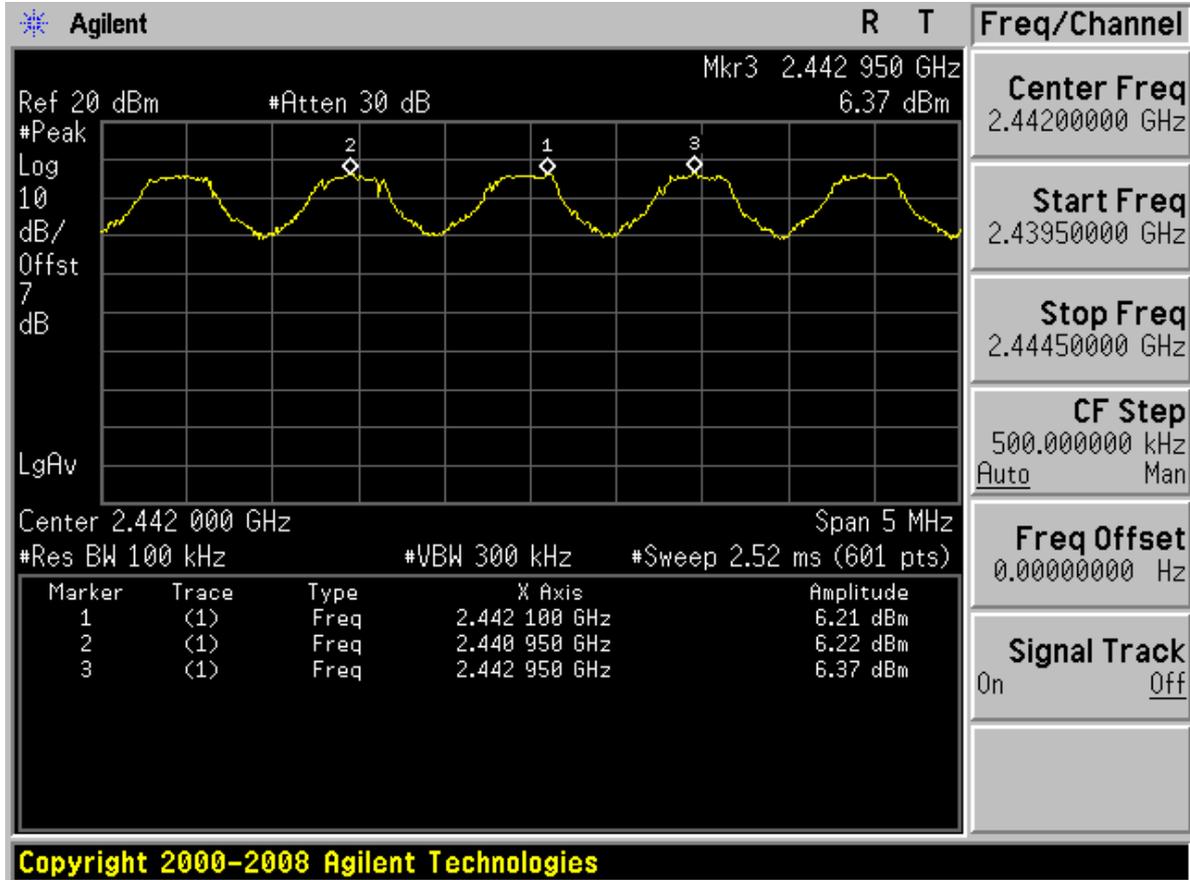
Appendix B

Carrier frequency separation measurement

According to FCC Part 15.247 (a) (1)



Centred at Channel 40





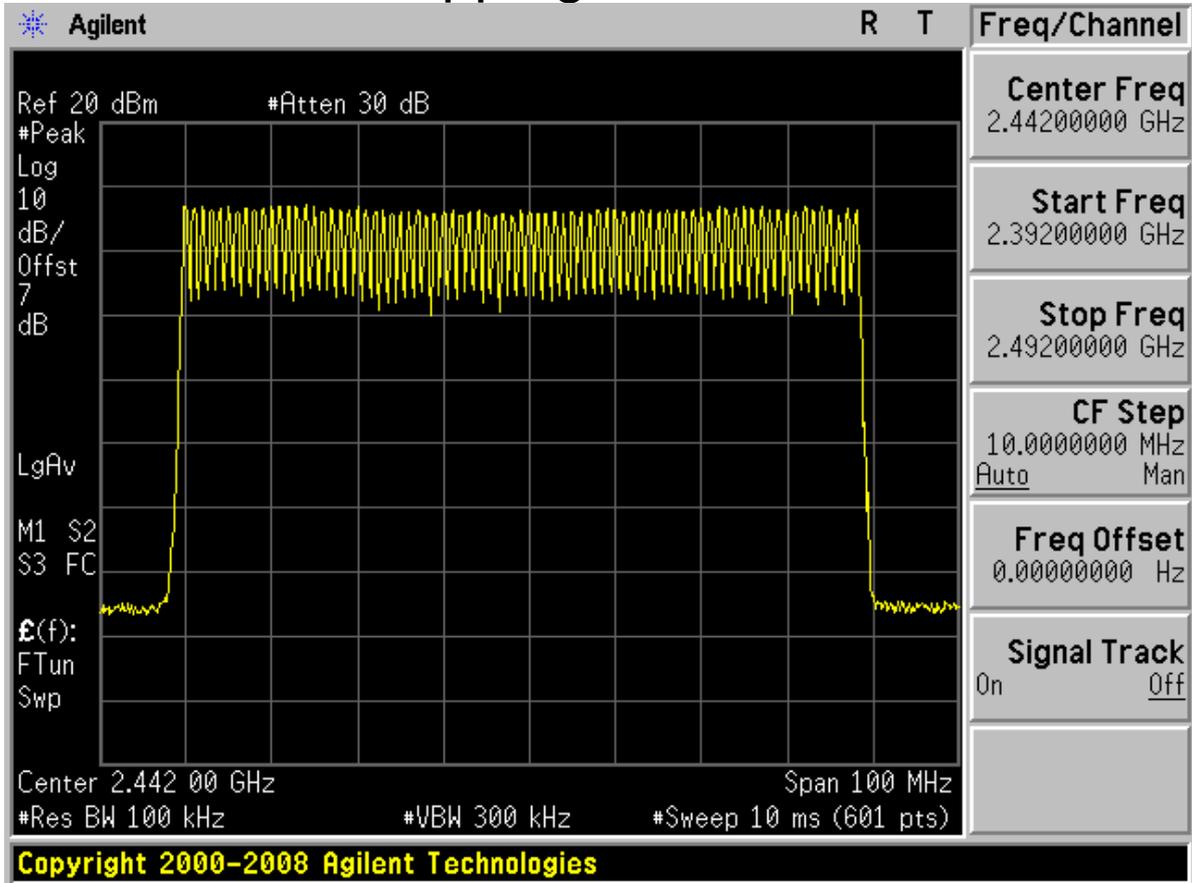
Appendix C

Number of hopping channel

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



Total hopping channels = 79





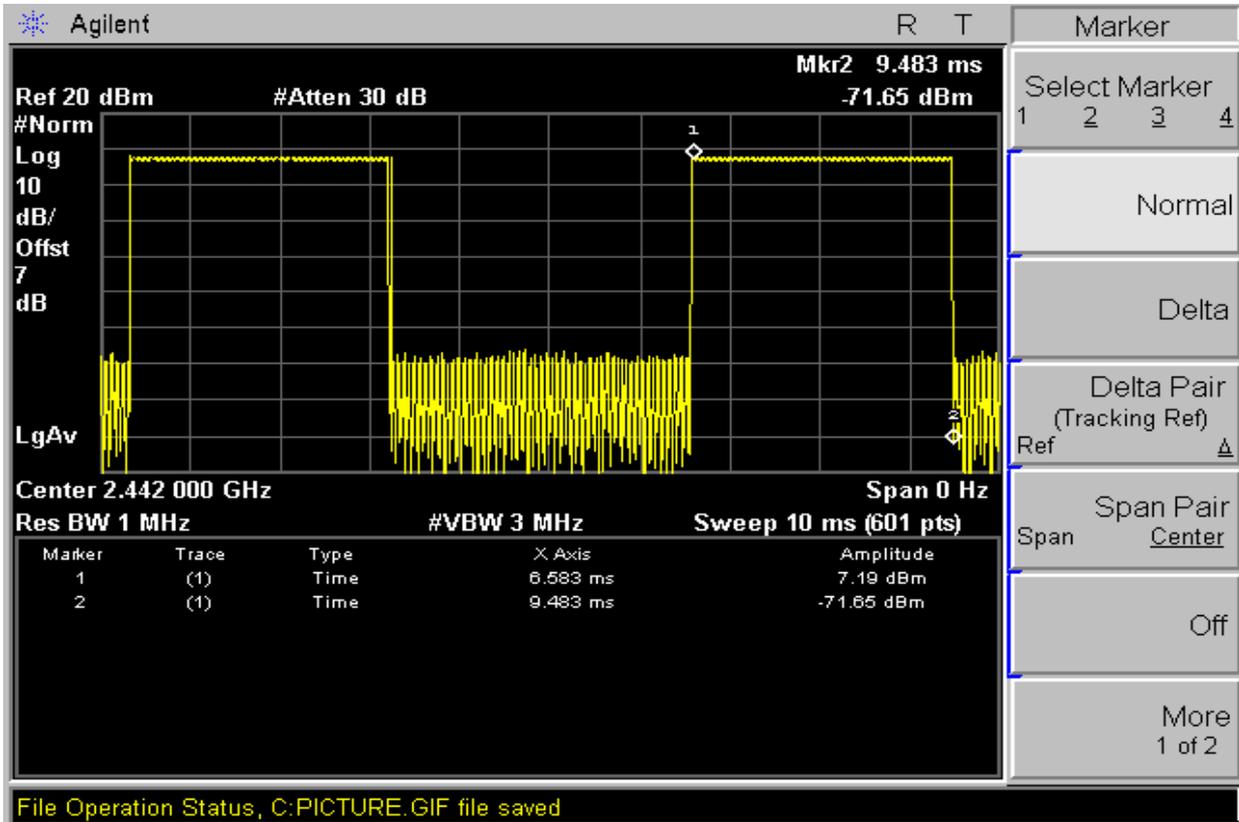
Appendix D

Time of occupancy

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

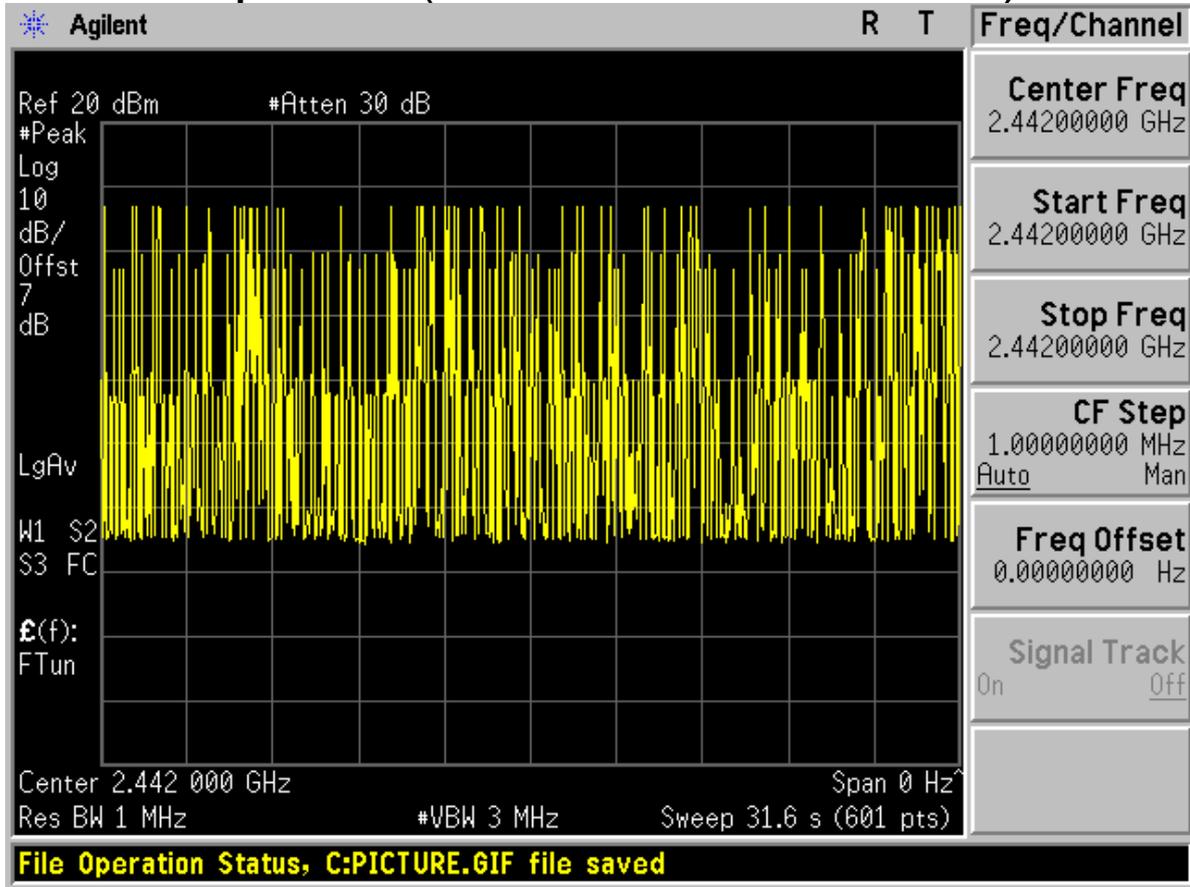


A burst (One time slot)





A period (Less than 106.7 burst)





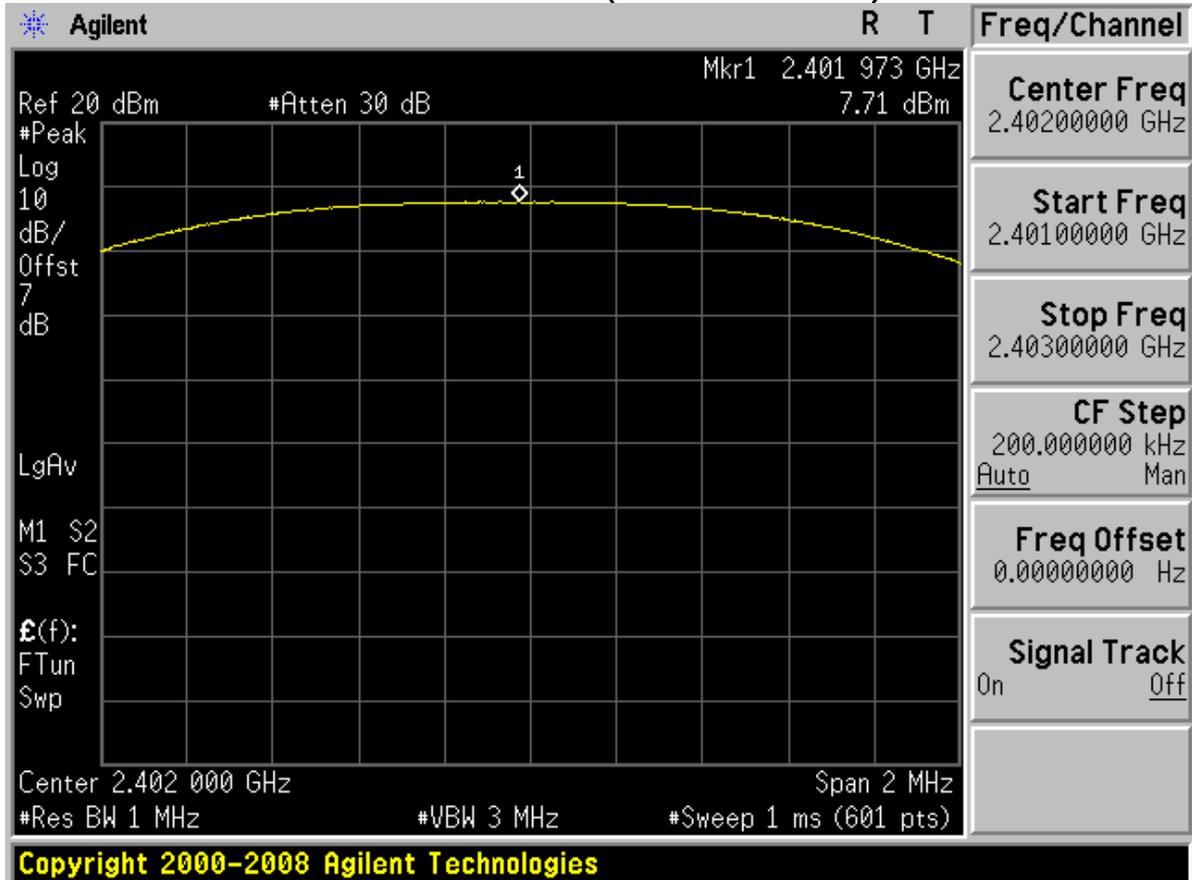
Appendix E

Peak output power

According to FCC Part 15.247 (b) (1)

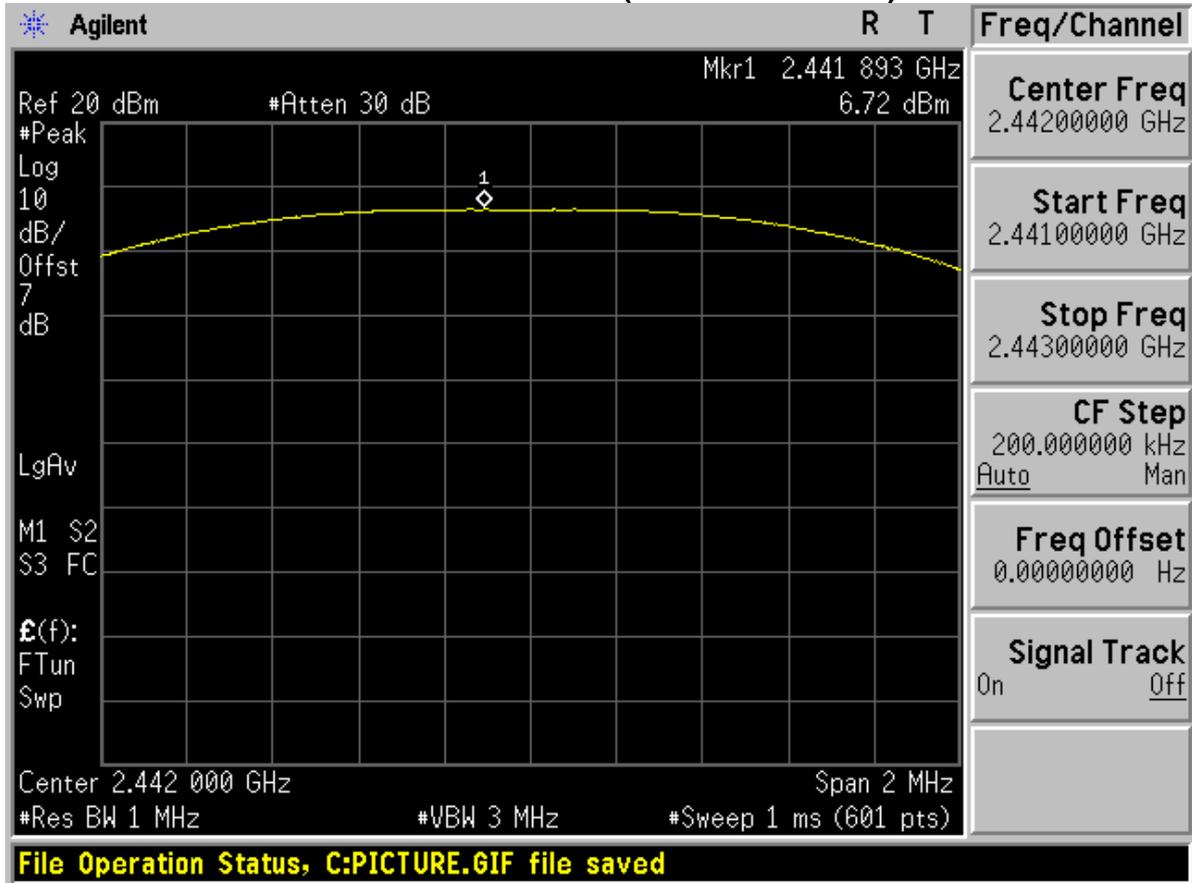


Channel 0 (2402MHz)



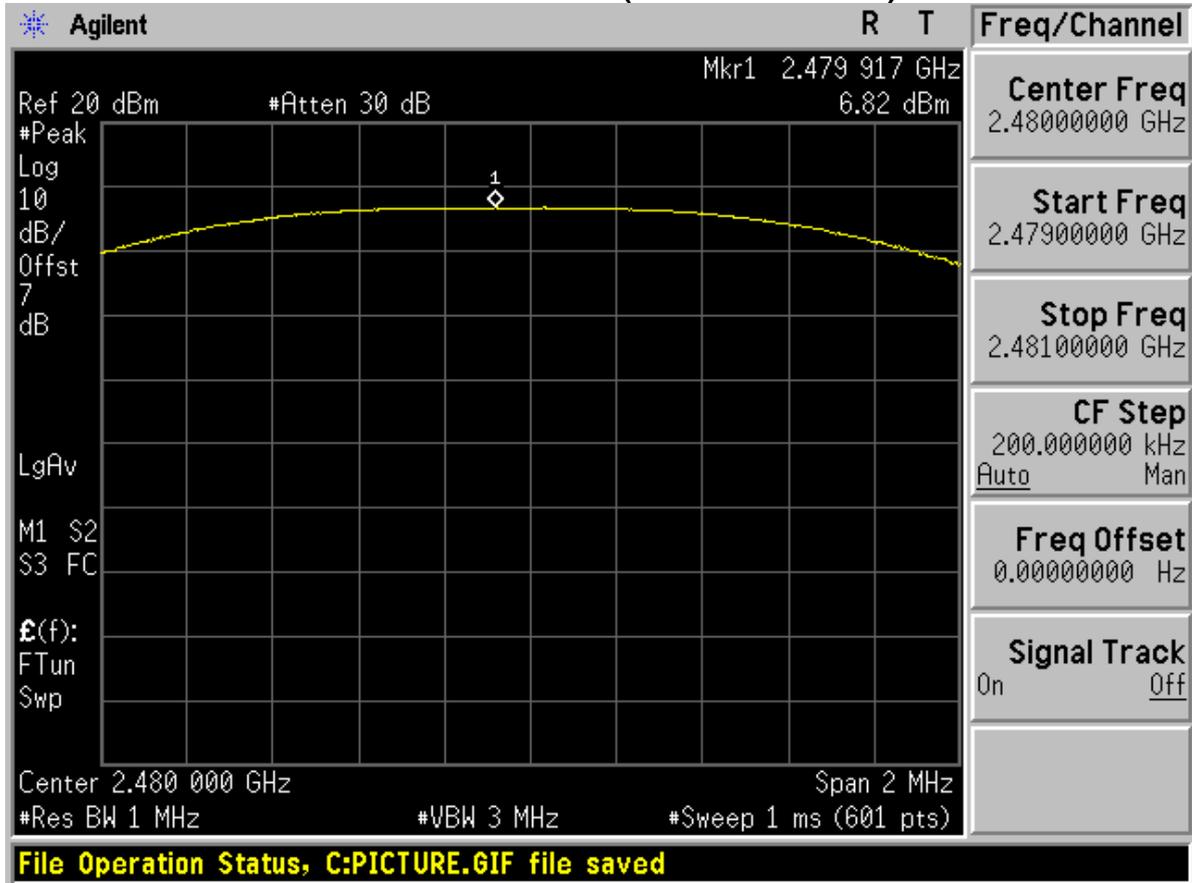


Channel 40 (2442MHz)





Channel 78 (2480MHz)





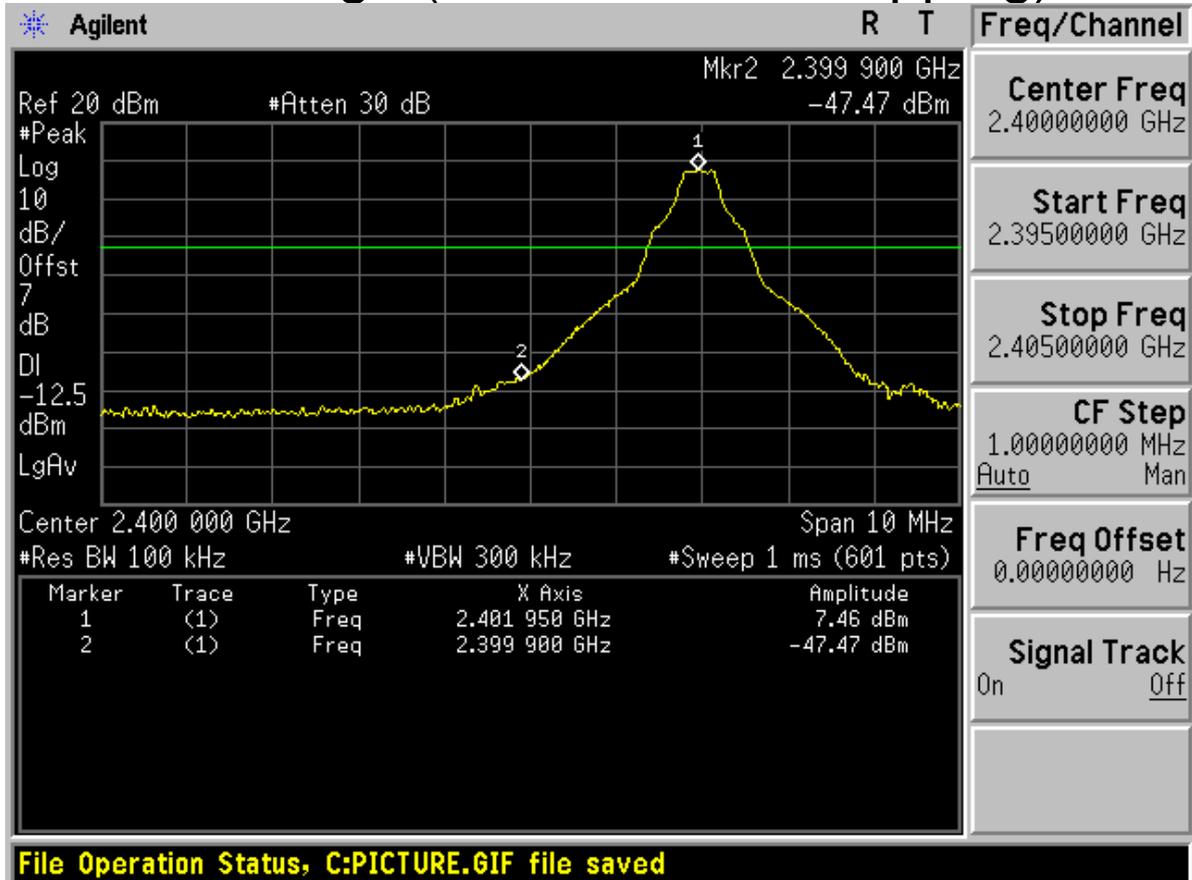
Appendix F

Band edge spurious emission

According to FCC Part 15.247 (d)

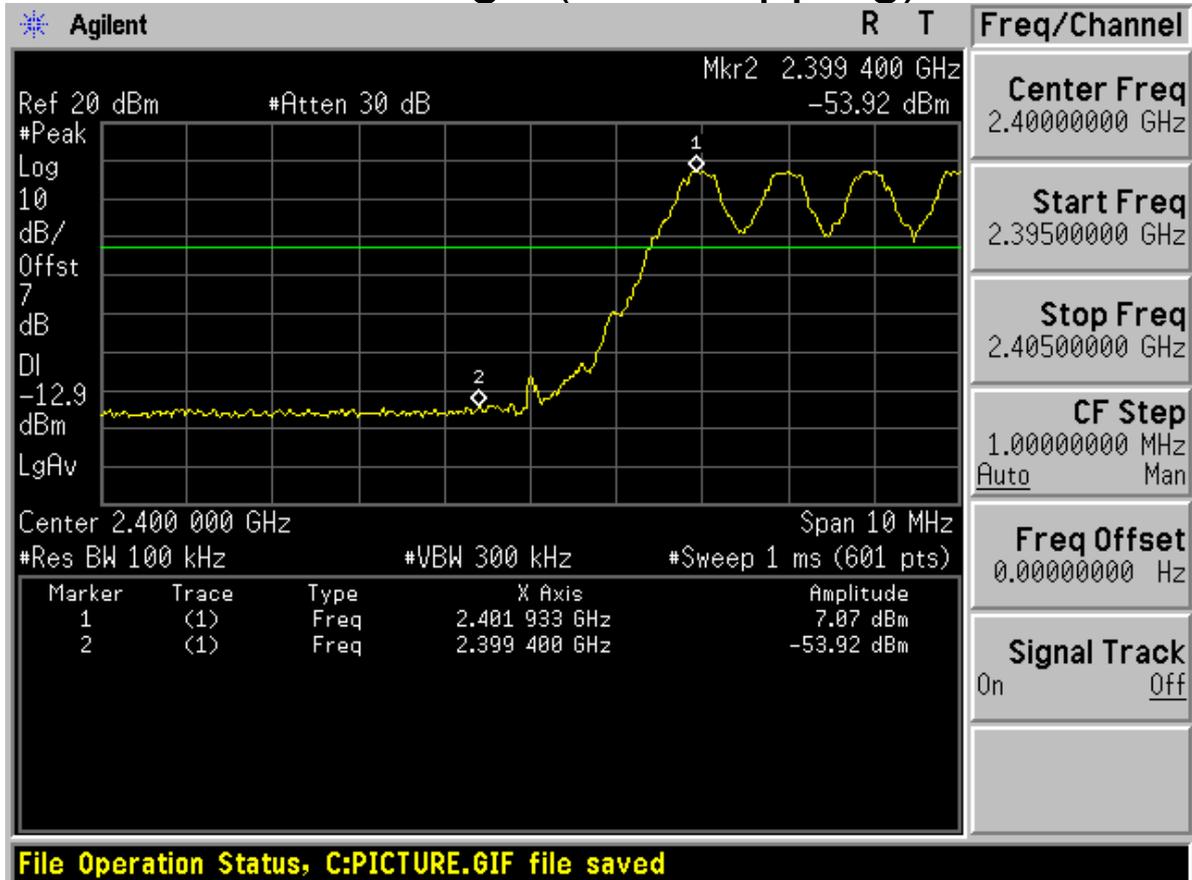


Low edge (Channel 0, no hopping)



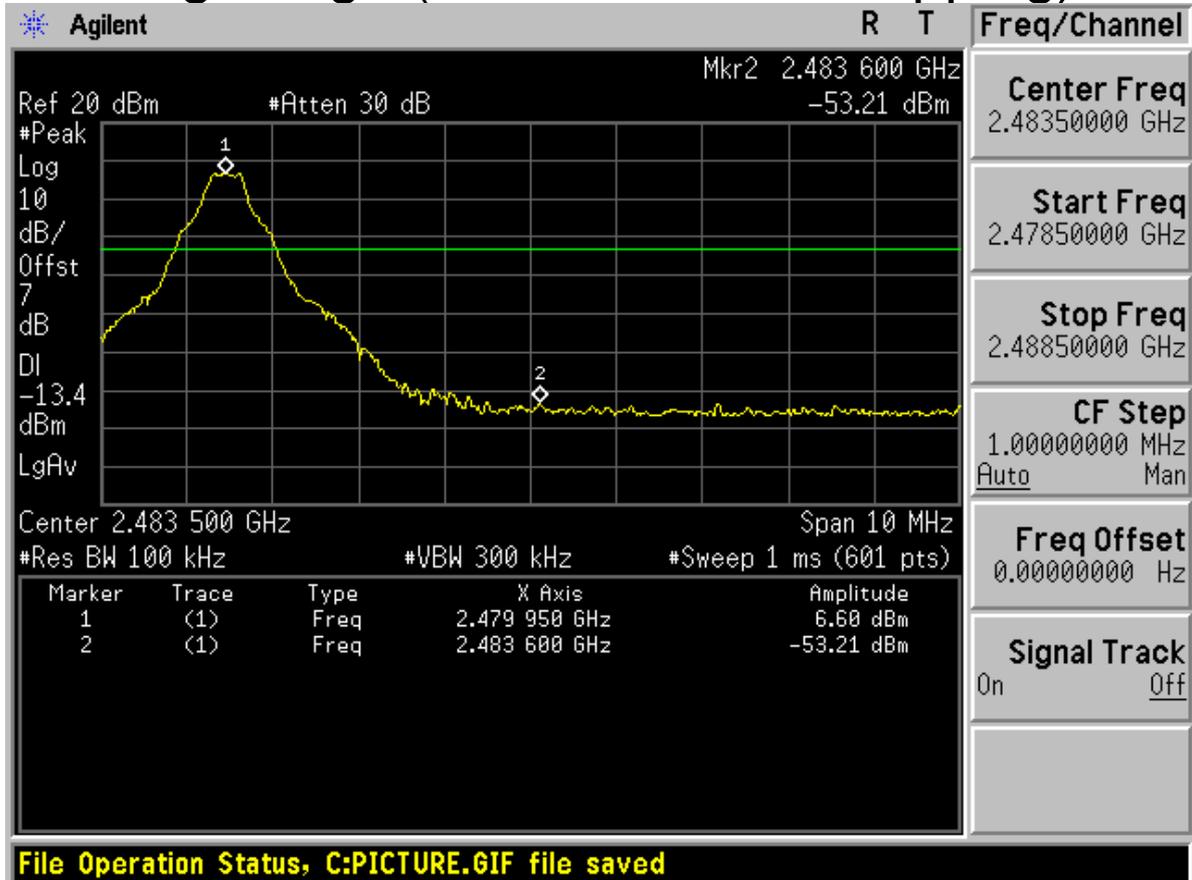


Low edge (with hopping)



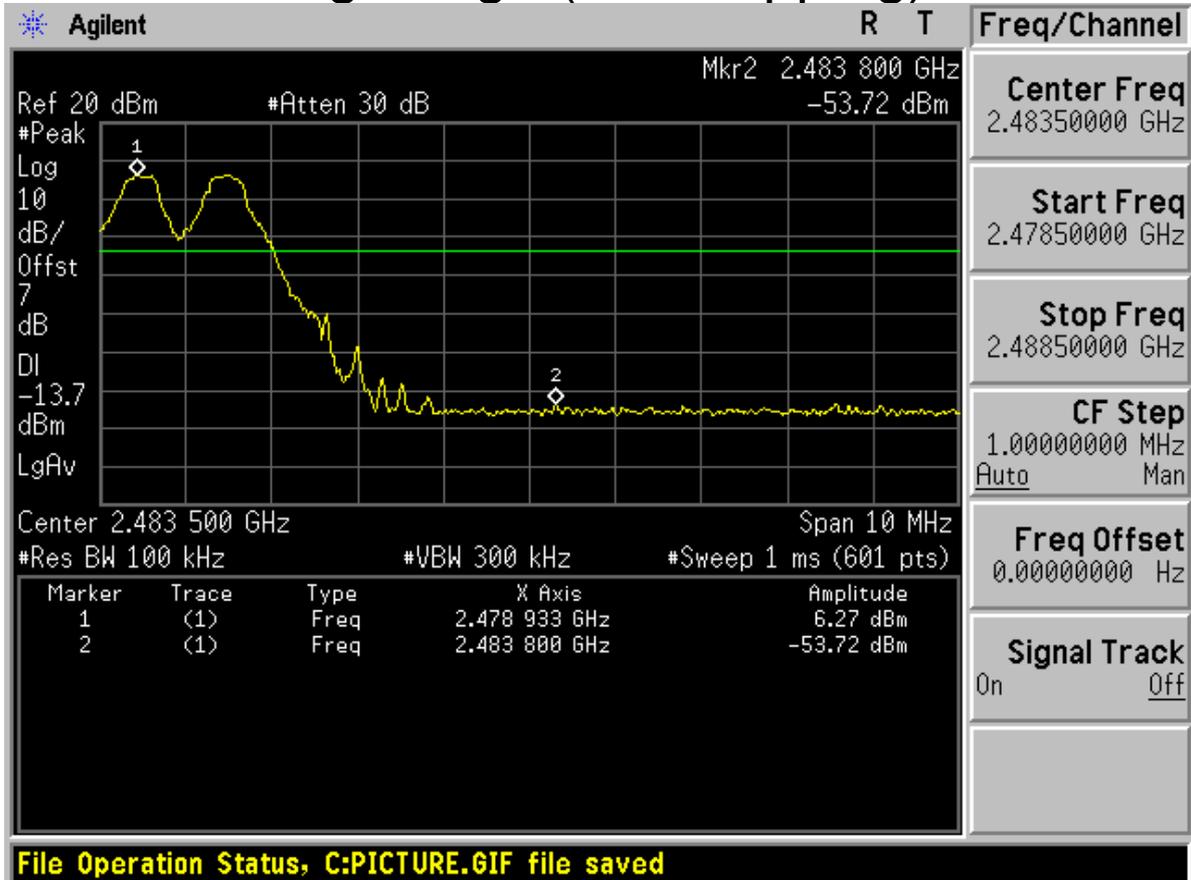


High edge (Channel 78, no hopping)





High edge (with hopping)





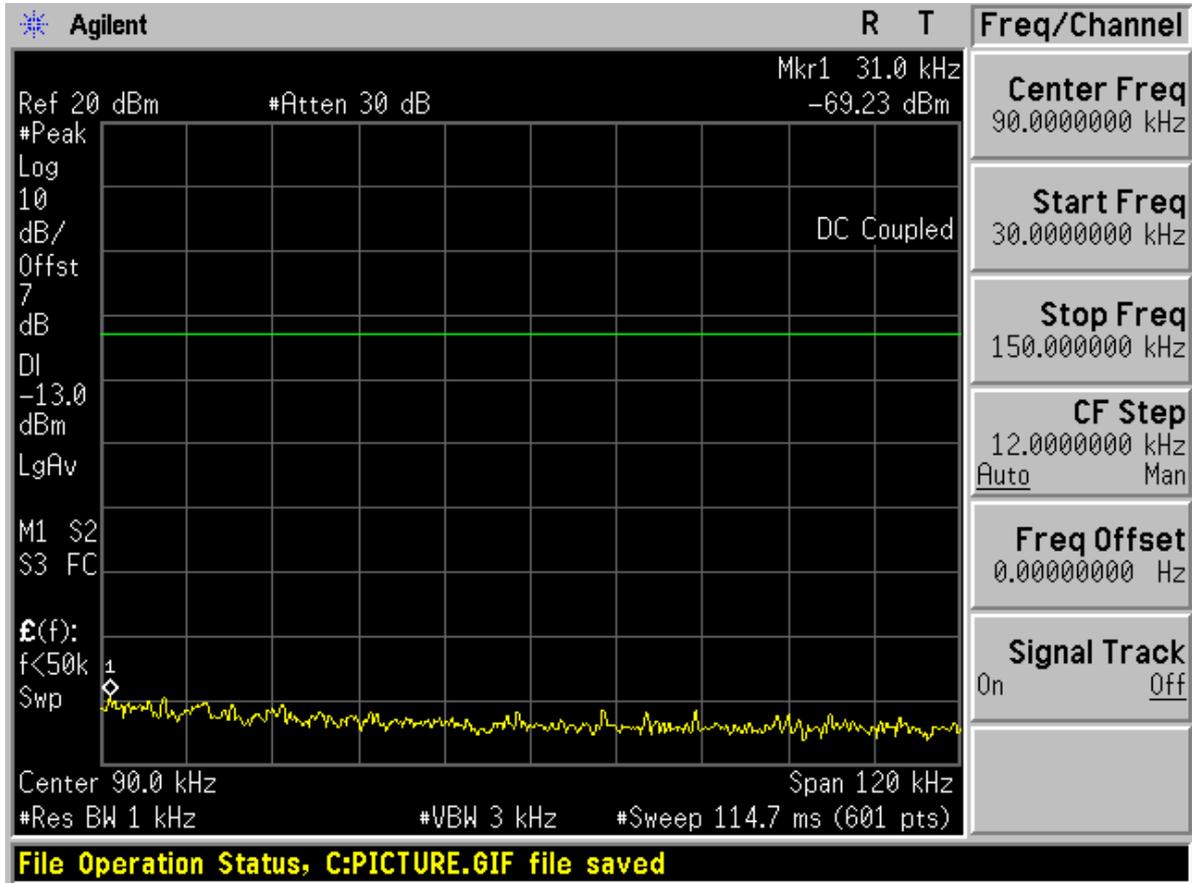
Appendix G

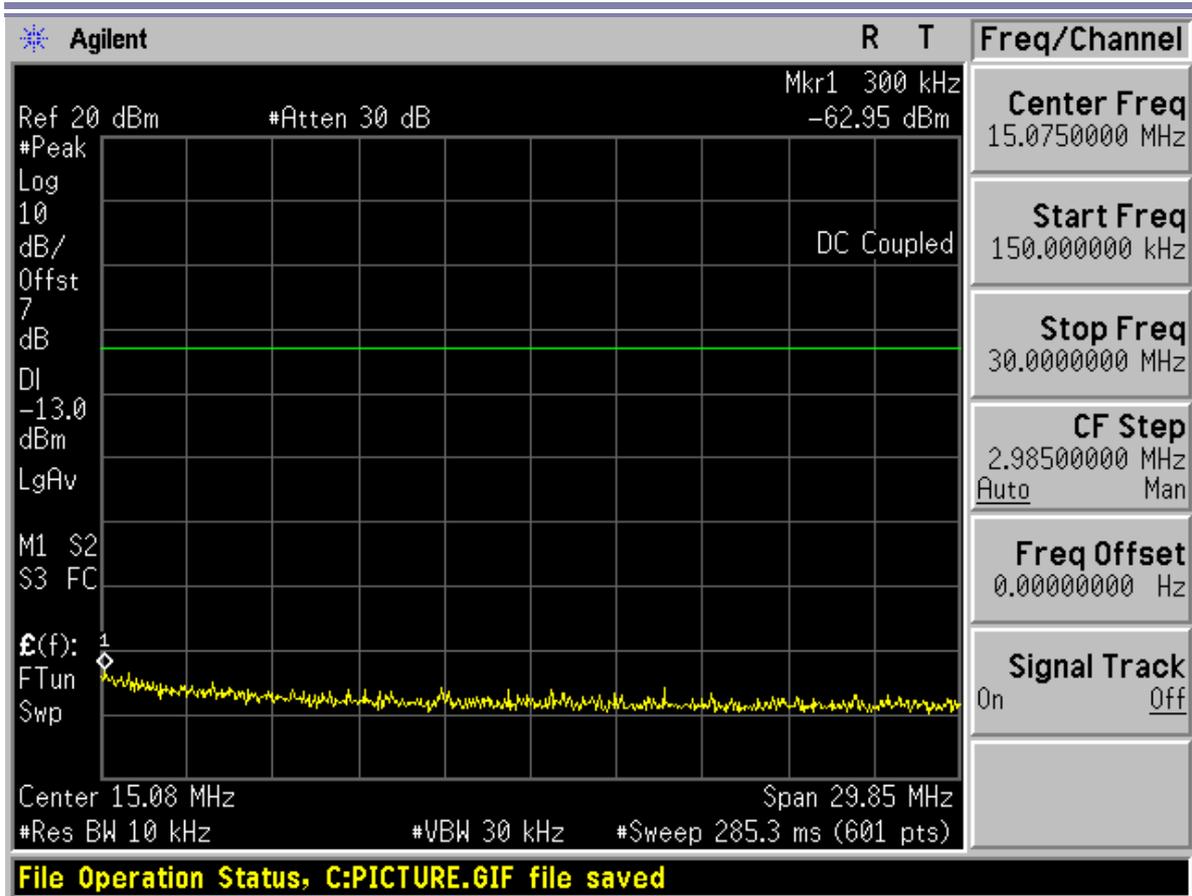
Conducted RF spurious

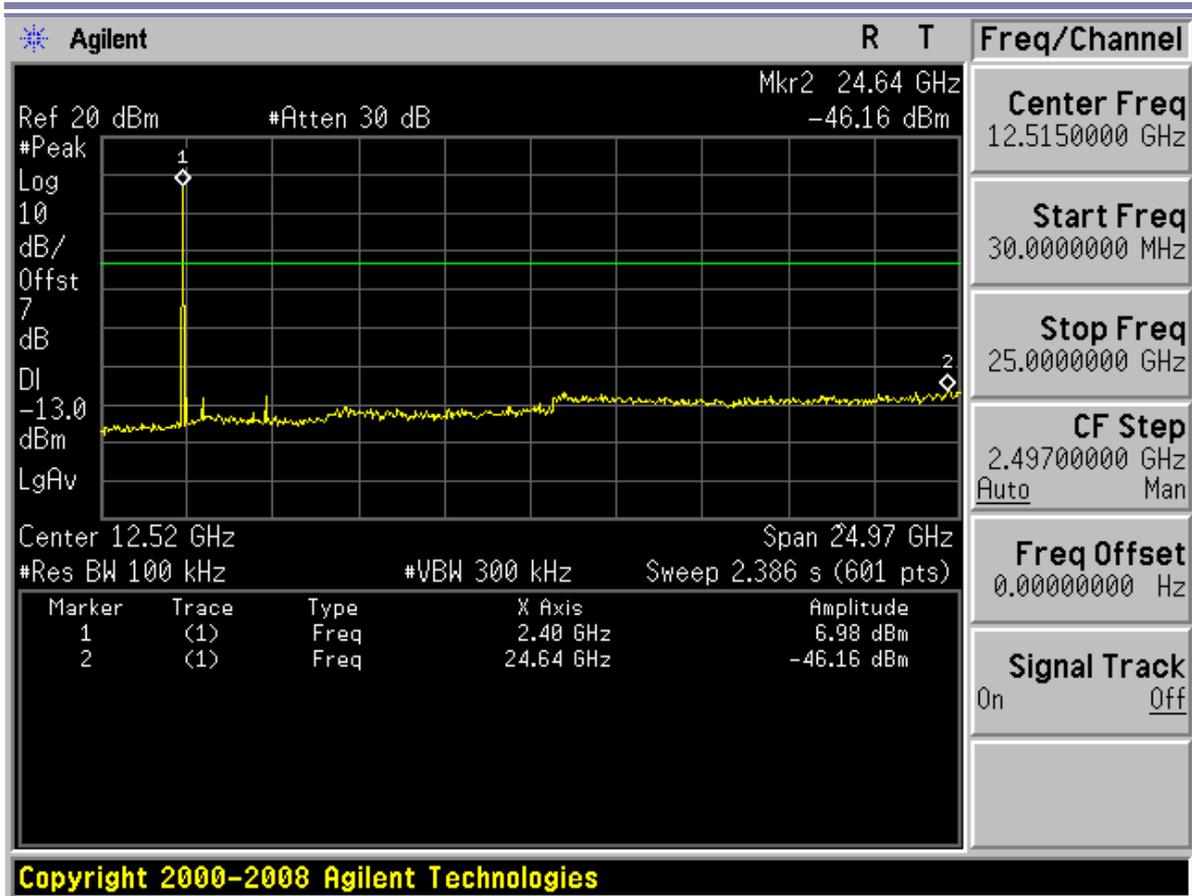
According to FCC Part 15.247 (d)



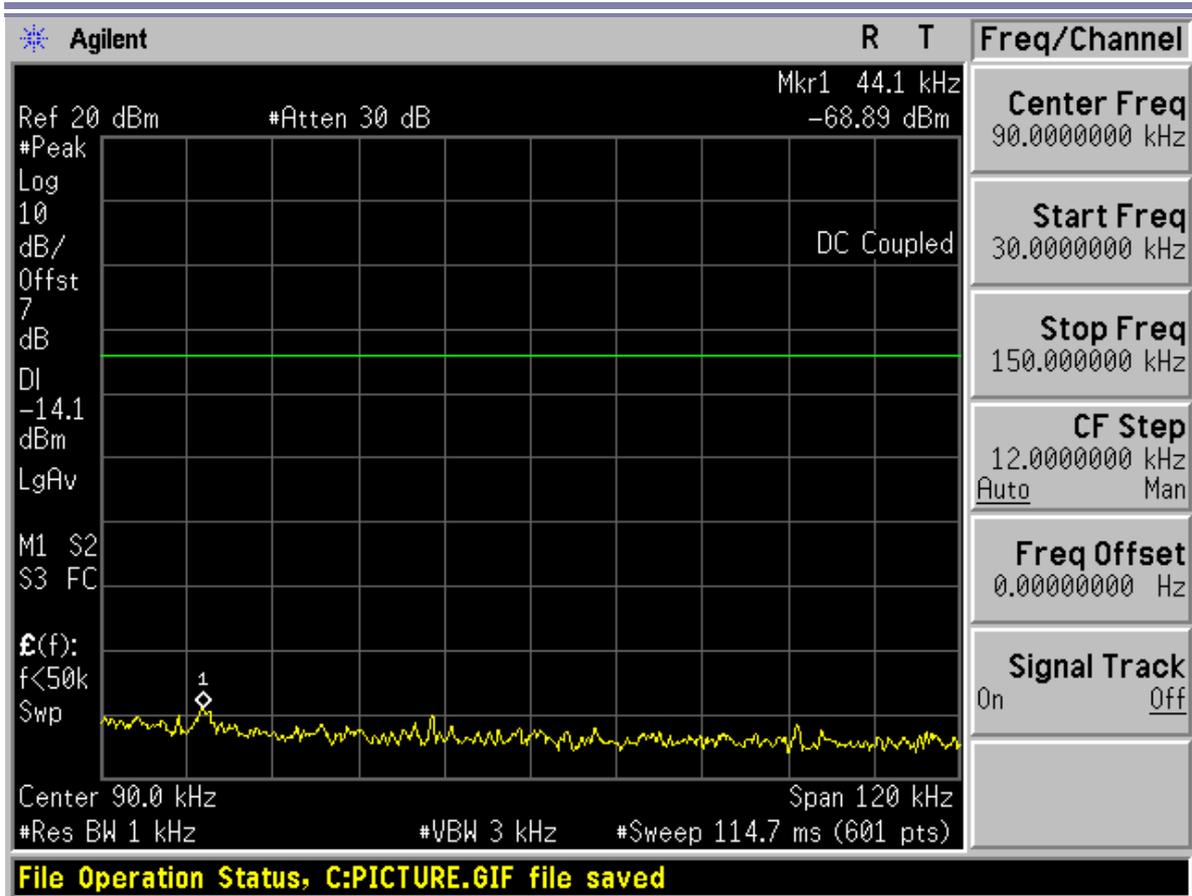
Channel 0

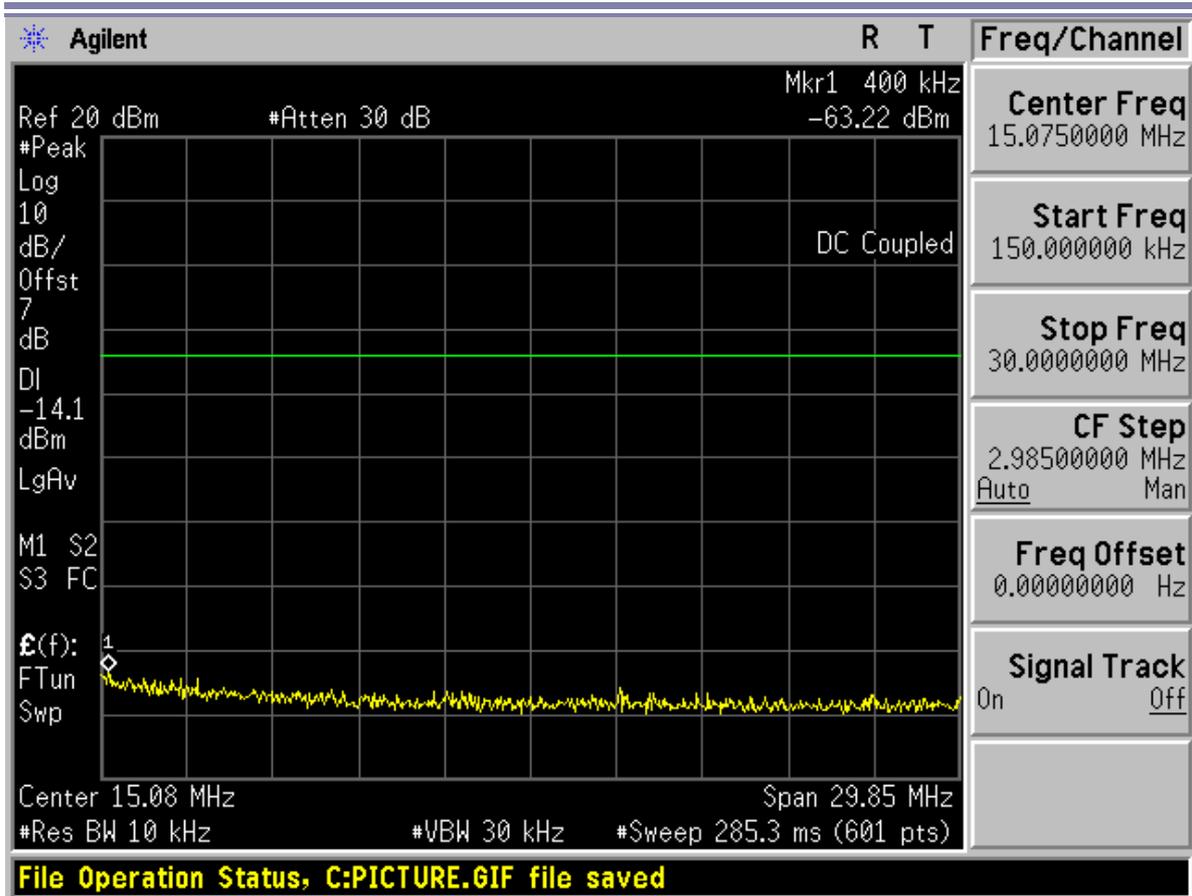


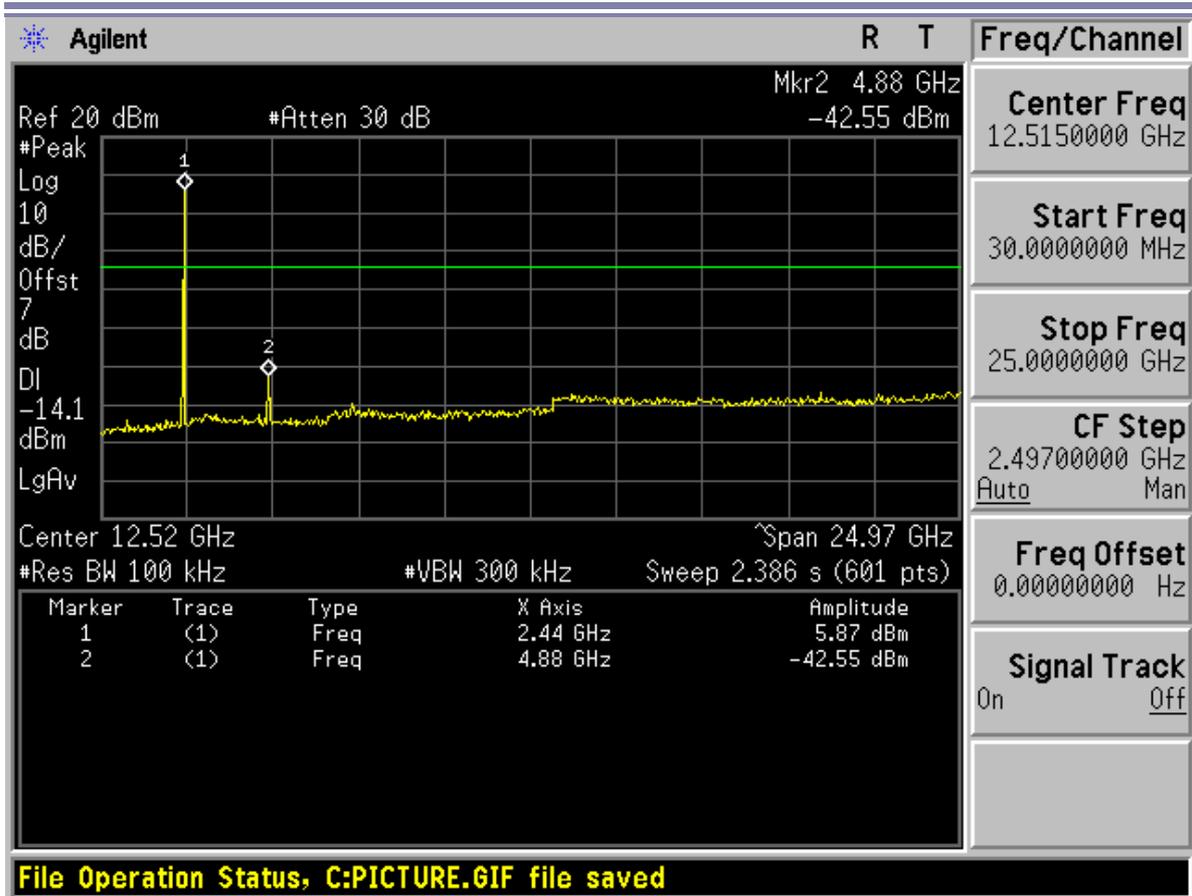




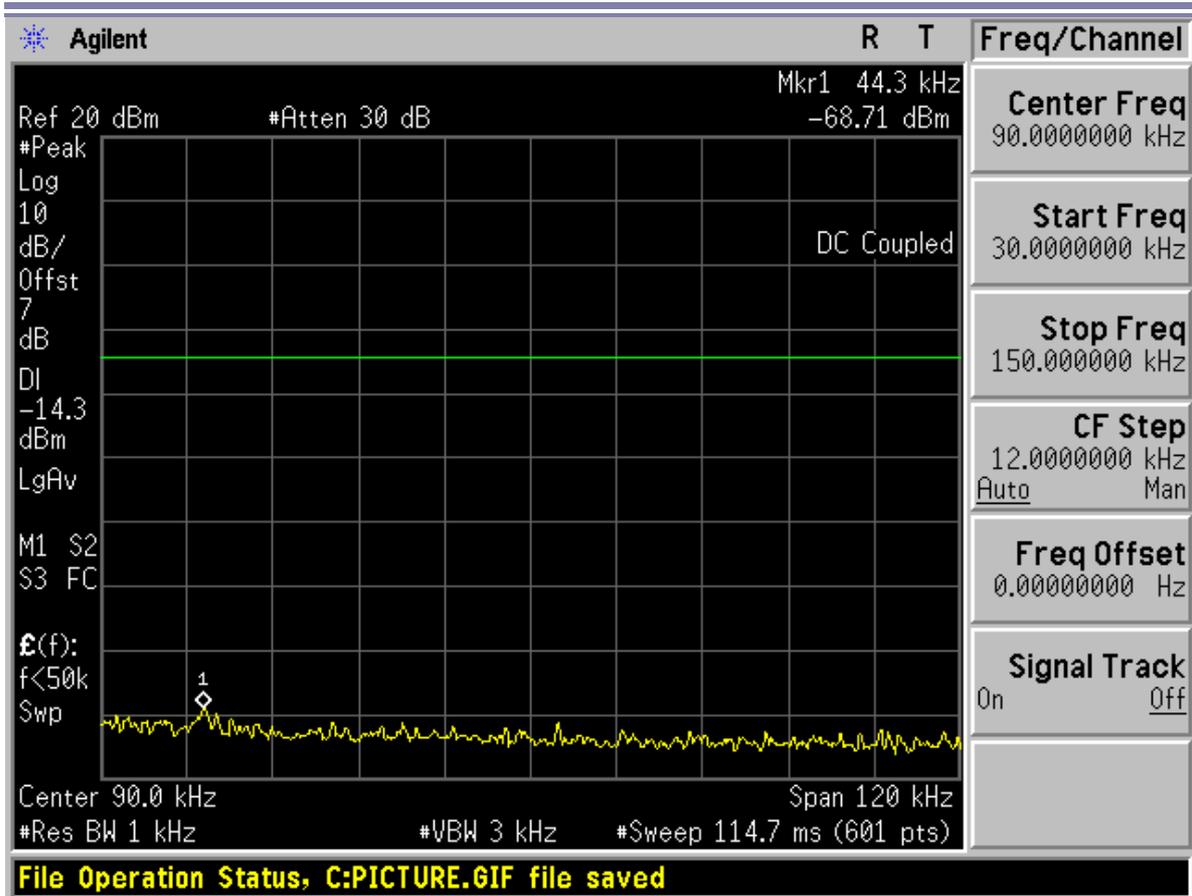
Channel 40

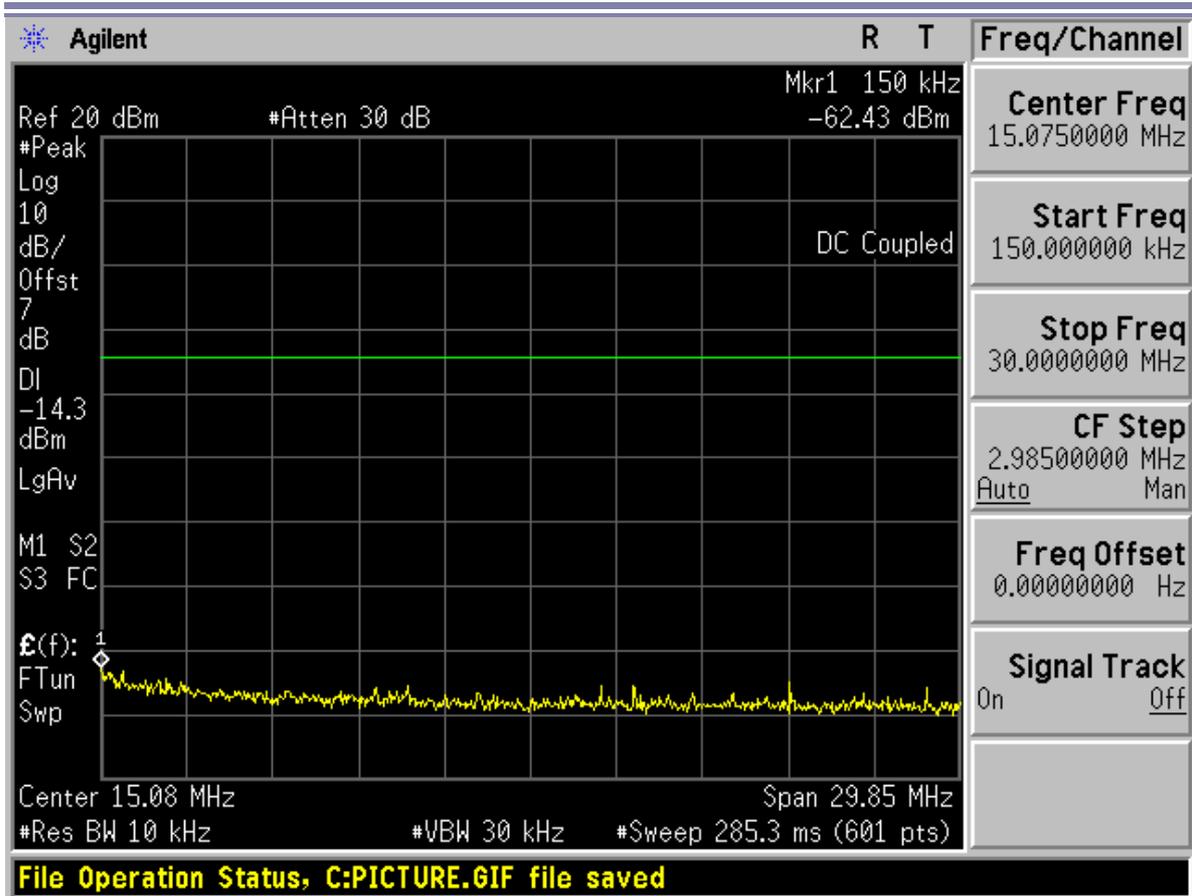


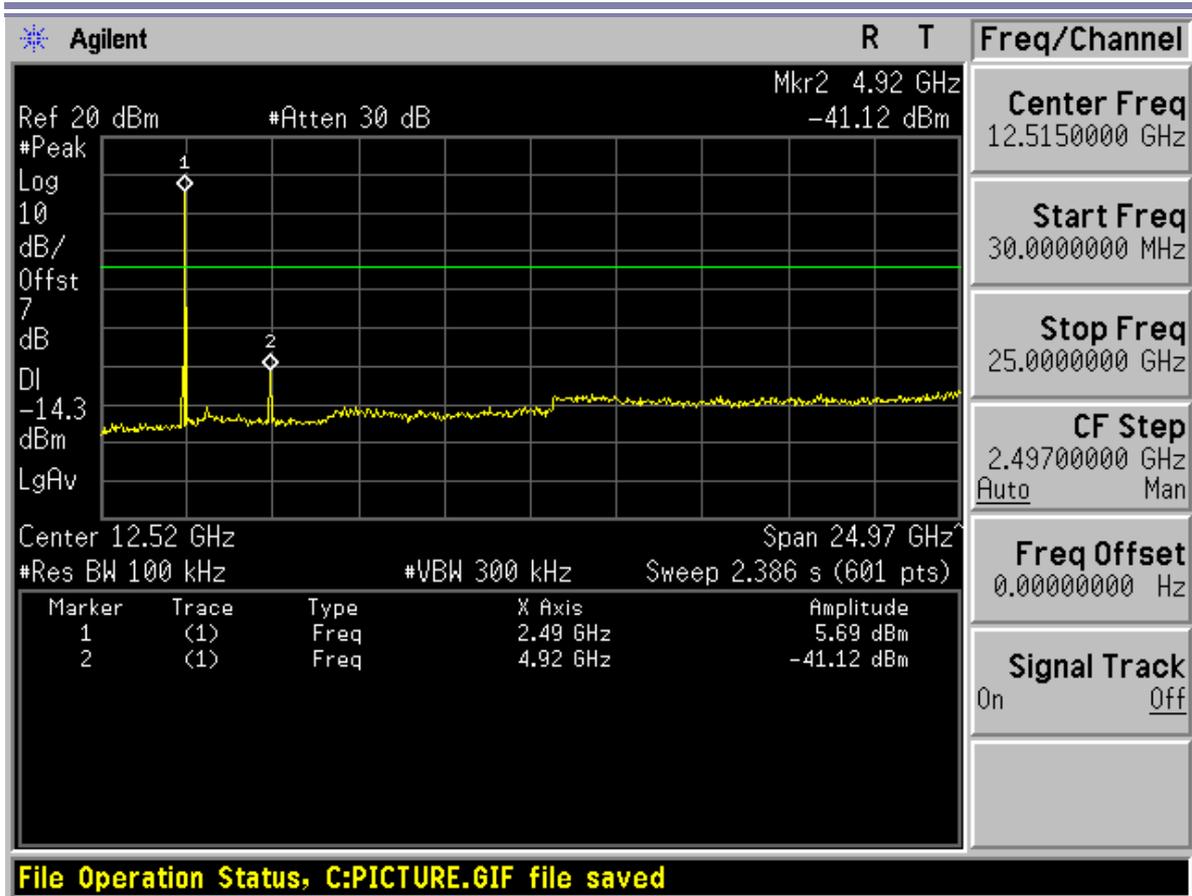




Channel 78









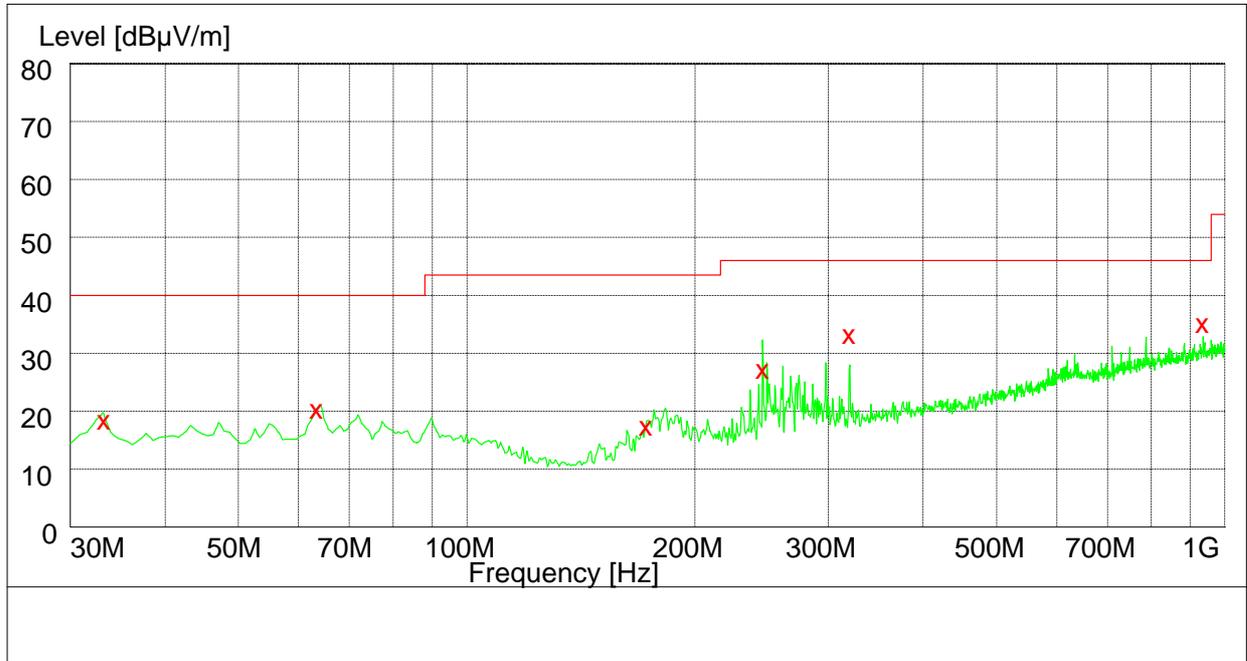
Appendix H

Radiated spurious emission

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



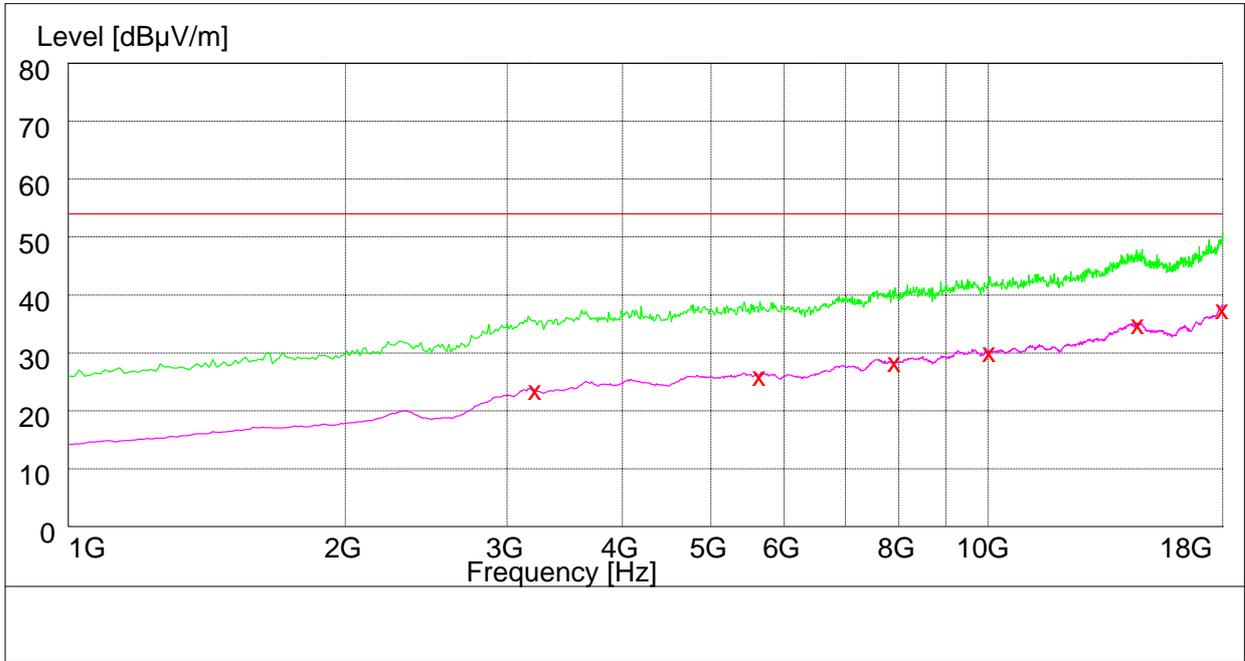
Channel 0 30MHz to 1GHz



Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Plarization
33.300000	19.30	11.7	40.0	20.7	178.0	190.00	HORIZONTAL
63.420000	20.10	11.0	40.0	19.9	154.0	356.00	VERTICAL
172.800000	18.60	10.3	43.5	24.9	145.0	221.00	HORIZONTAL
245.820000	27.00	14.1	46.0	19.0	142.0	89.00	HORIZONTAL
319.980000	33.00	16.0	46.0	13.0	137.0	360.00	VERTICAL
936.540000	35.00	26.5	46.0	11.0	100.0	339.00	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
3155.000000	23.30	-8.5	54.0	30.7	100.0	36.00	HORIZONTAL
5650.500000	25.70	-2.2	54.0	28.3	112.0	231.00	HORIZONTAL
7921.000000	28.10	1.9	54.0	25.9	136.0	50.00	HORIZONTAL
10048.000000	29.90	5.2	54.0	24.1	144.0	29.00	VERTICAL
14566.500000	34.60	12.2	54.0	19.4	108.0	87.00	VERTICAL
17991.000000	37.30	17.3	54.0	16.7	100.0	75.00	HORIZONTAL

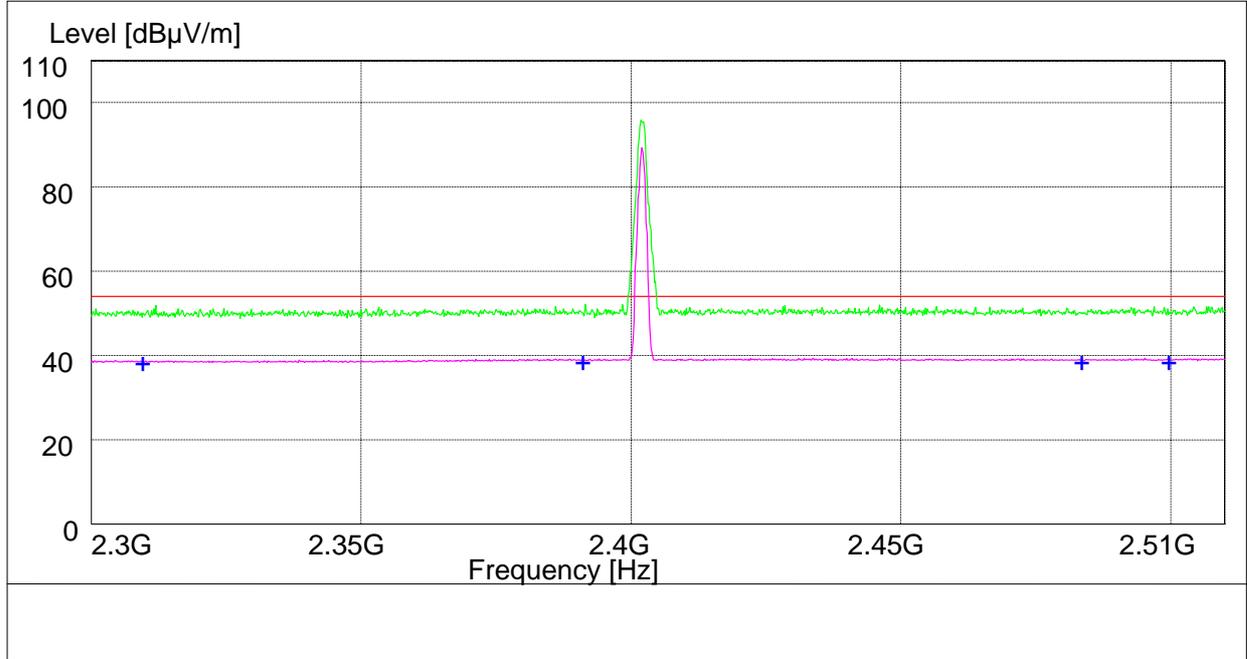


18GHz to 26GHz

Note: No peak found in pre- test.



2GHz to 3GHz

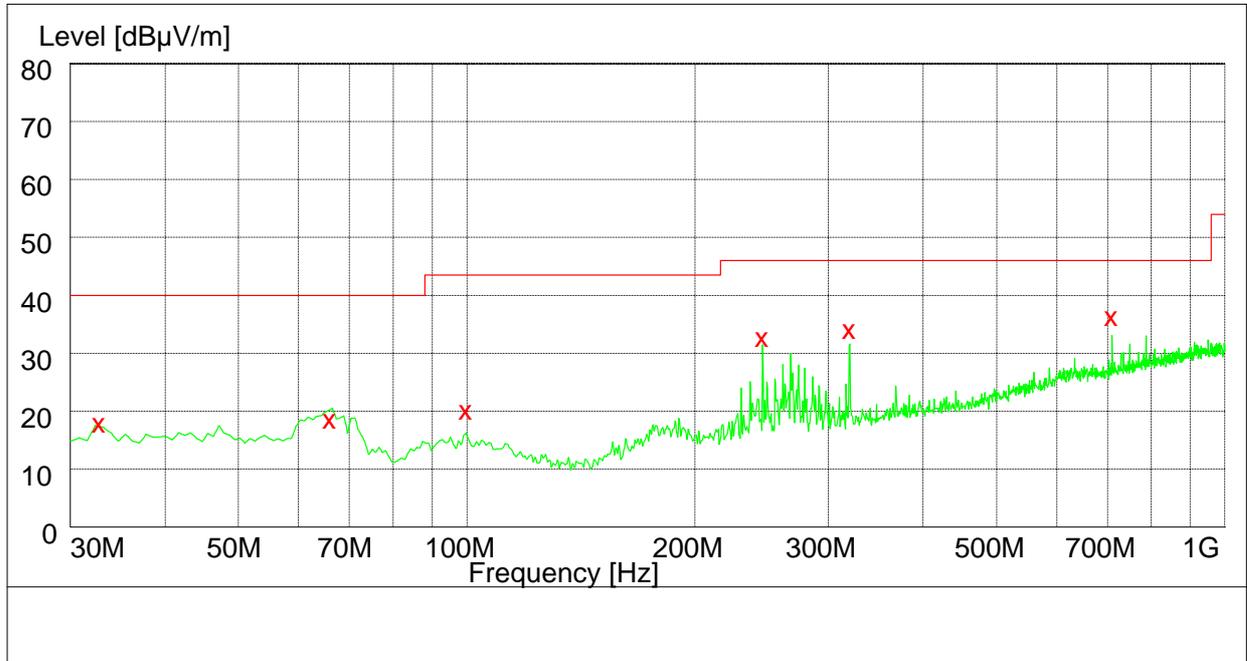


Note: The highest peak exceeds the limit line is carrier frequency.

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2310.000000	38.00	33.3	54.0	16.0	120.0	317.00	VERTICAL
2390.000000	38.40	33.5	54.0	15.6	124.0	178.00	VERTICAL
2483.500000	38.30	33.7	54.0	15.7	125.0	98.00	HORIZONTAL
2500.000000	38.40	33.8	54.0	16.6	108.0	168.00	VERTICAL



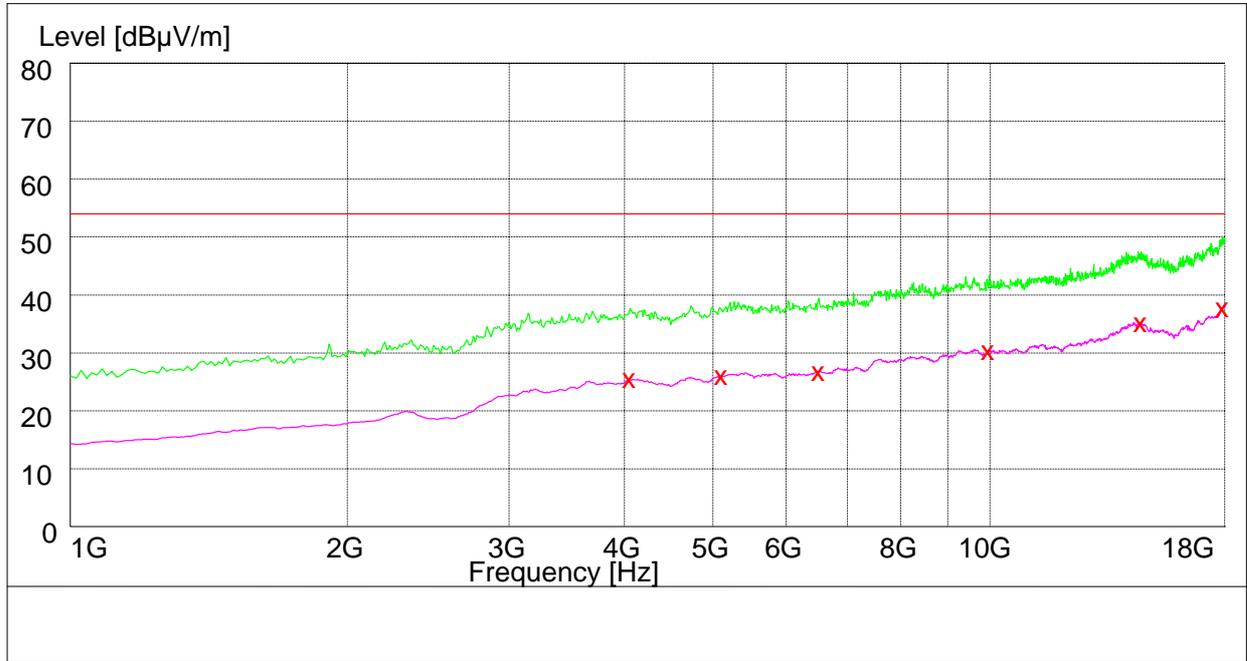
Channel 40 30MHz to 1GHz



Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
32.760000	19.20	11.7	40.0	20.8	214.0	40.00	VERTICAL
66.000000	19.80	10.0	40.0	20.2	247.0	166.00	HORIZONTAL
99.960000	20.00	13.1	43.5	23.5	123.0	252.00	VERTICAL
245.760000	32.60	14.1	46.0	13.4	114.0	157.00	VERTICAL
319.980000	33.90	16.0	46.0	12.1	115.0	314.00	HORIZONTAL
710.400000	36.10	23.4	46.0	9.9	100.0	21.00	VERTICAL



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
4060.500000	25.00	-5.7	54.0	29.0	124.0	179.00	VERTICAL
5104.500000	25.50	-3.5	54.0	28.5	112.0	78.00	VERTICAL
6512.500000	26.20	-0.9	54.0	27.8	102.0	289.00	HORIZONTAL
9968.500000	29.80	5.1	54.0	24.2	107.0	358.00	HORIZONTAL
14595.500000	34.60	12.1	54.0	19.4	106.0	316.00	HORIZONTAL
17908.500000	37.30	16.7	54.0	16.7	125.0	67.00	VERTICAL

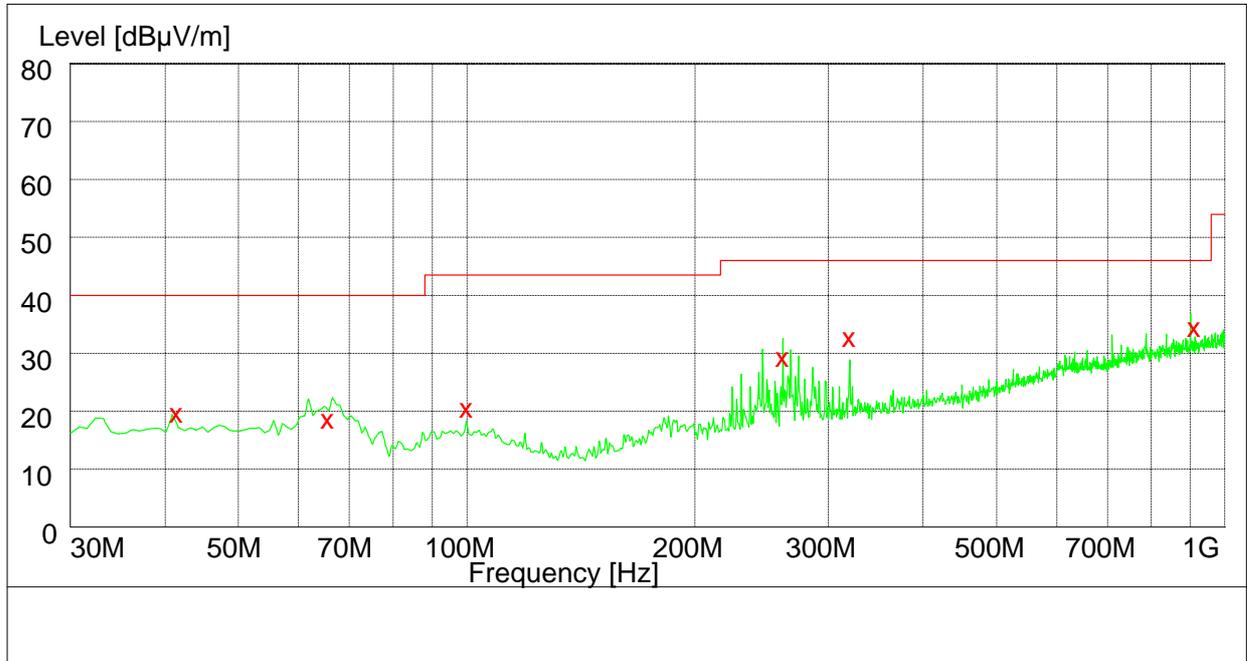


18GHz to 26GHz

Note: No peak found in pre- test.



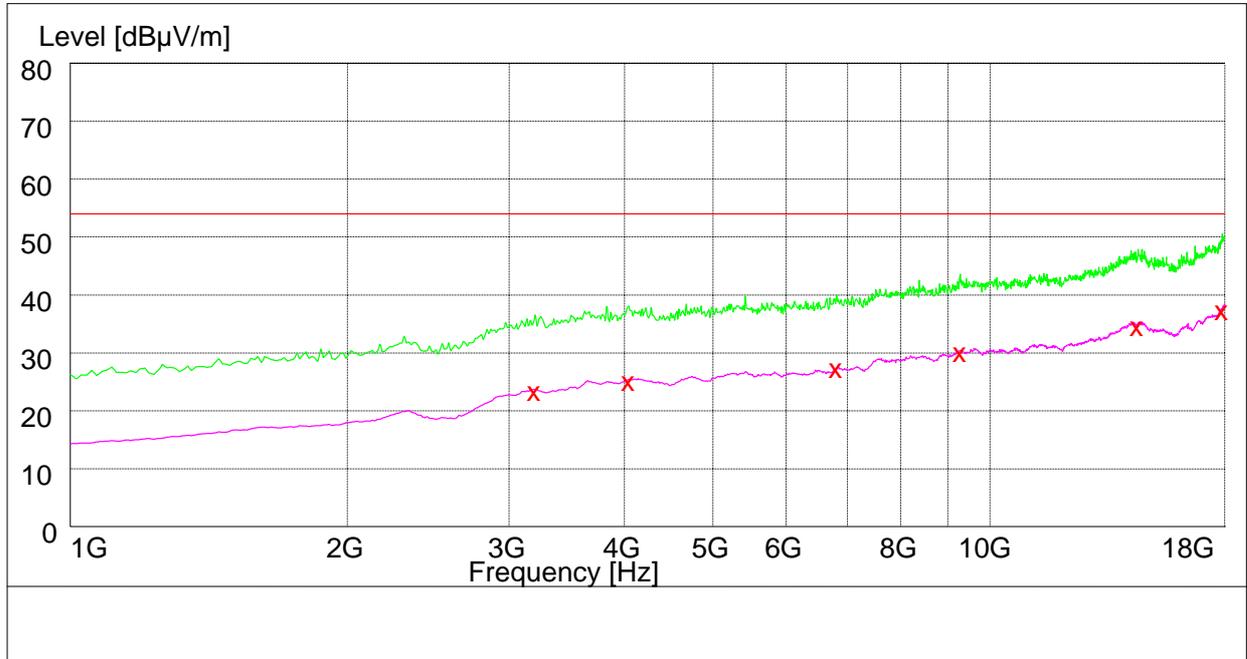
Channel 78 30MHz to 1GHz



Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
41.460000	19.70	13.1	40.0	20.3	186.0	151.00	VERTICAL
65.700000	18.40	10.1	40.0	21.6	154.0	206.00	HORIZONTAL
100.020000	20.40	13.1	43.5	23.1	141.0	137.00	VERTICAL
261.120000	29.50	14.2	46.0	16.5	100.0	354.00	VERTICAL
319.980000	32.60	16.0	46.0	13.4	152.0	0.00	HORIZONTAL
901.260000	34.20	26.2	46.0	11.8	135.0	326.00	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
3198.500000	23.20	-8.3	54.0	30.8	123.0	350.00	VERTICAL
4045.000000	24.90	-5.7	54.0	29.1	100.0	304.00	HORIZONTAL
6809.500000	27.00	-0.3	54.0	27.0	154.0	30.00	HORIZONTAL
9279.500000	29.90	4.6	54.0	24.1	125.0	1.00	HORIZONTAL
14466.000000	34.60	12.3	54.0	19.4	127.0	334.00	VERTICAL
17885.500000	37.10	16.6	54.0	16.9	102.0	101.00	VERTICAL

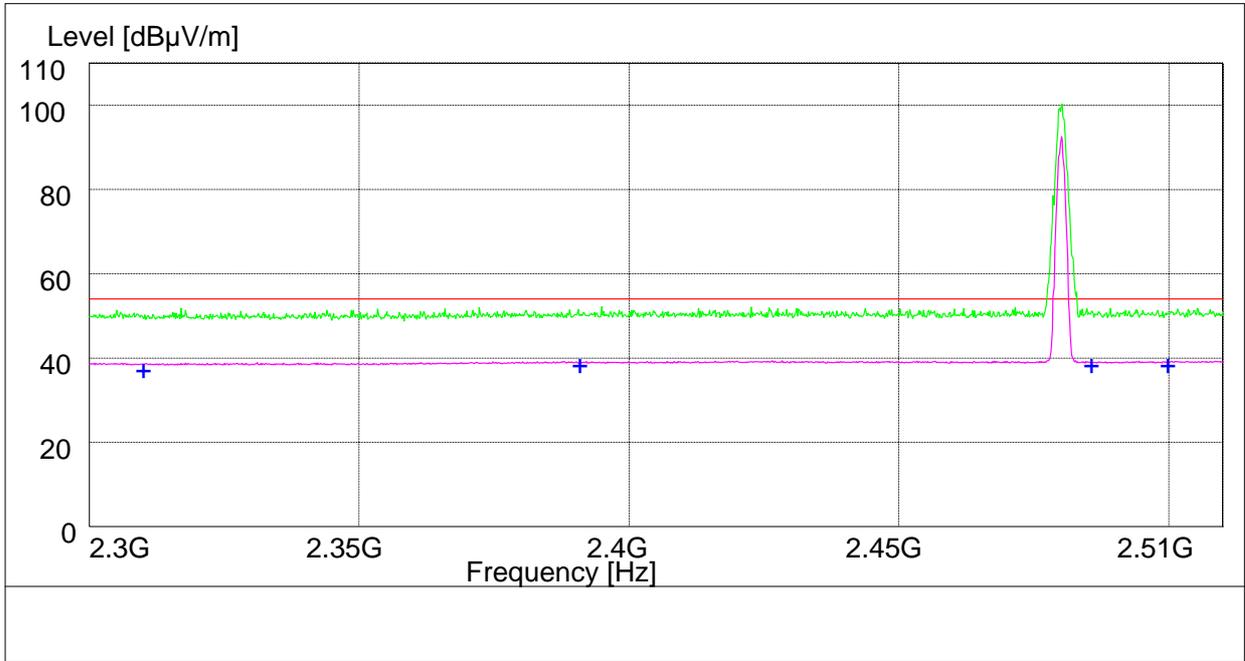


18GHz to 26GHz

Note: No peak found in pre- test.



2GHz to 3GHz



Note: The highest 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	38.00	33.3	54.0	16.0	125.0	88.00	HORIZONTAL
2390.000000	38.40	33.5	54.0	15.6	135.0	124.00	VERTICAL
2483.500000	38.30	33.7	54.0	15.7	121.0	333.00	HORIZONTAL
2500.000000	38.40	33.8	54.0	15.6	124.0	203.00	HORIZONTAL



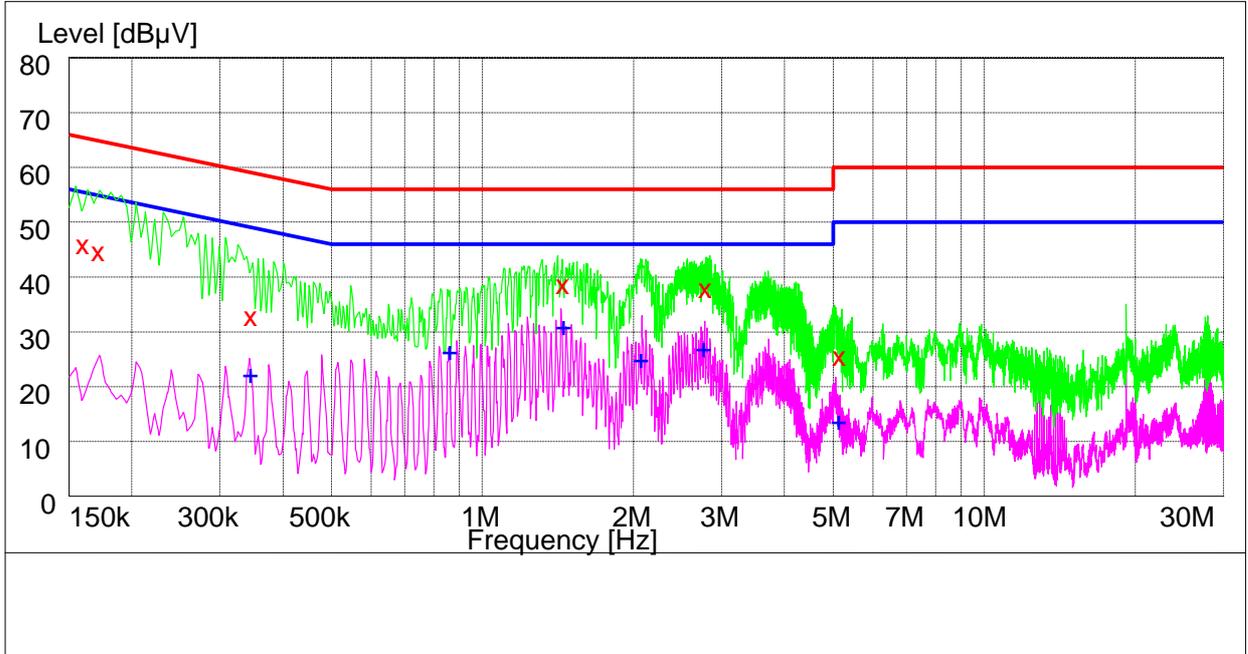
Appendix I

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
0.160000	47.20	10.1	66	18.8	N	FLO
0.172000	46.10	10.1	65	18.9	N	FLO
0.346000	34.20	10.0	59	24.8	N	FLO
1.450000	39.90	10.1	56	16.1	N	FLO
2.796000	39.20	10.2	56	16.8	N	FLO
5.168000	26.80	10.2	60	33.2	N	FLO

MEASUREMENT RESULT: AV Detector

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.344000	23.70	10.0	49	25.3	N	FLO
0.862000	27.80	10.1	46	18.2	N	FLO
1.452000	32.30	10.1	46	13.7	N	FLO
2.068000	26.30	10.1	46	19.7	N	FLO
2.760000	28.20	10.2	46	17.8	N	FLO
5.136000	15.10	10.2	50	34.9	N	FLO