

Appendix A

20dB bandwidth measurement

According to FCC Part 15.247 a (1)

Channel 0 (2402MHz)

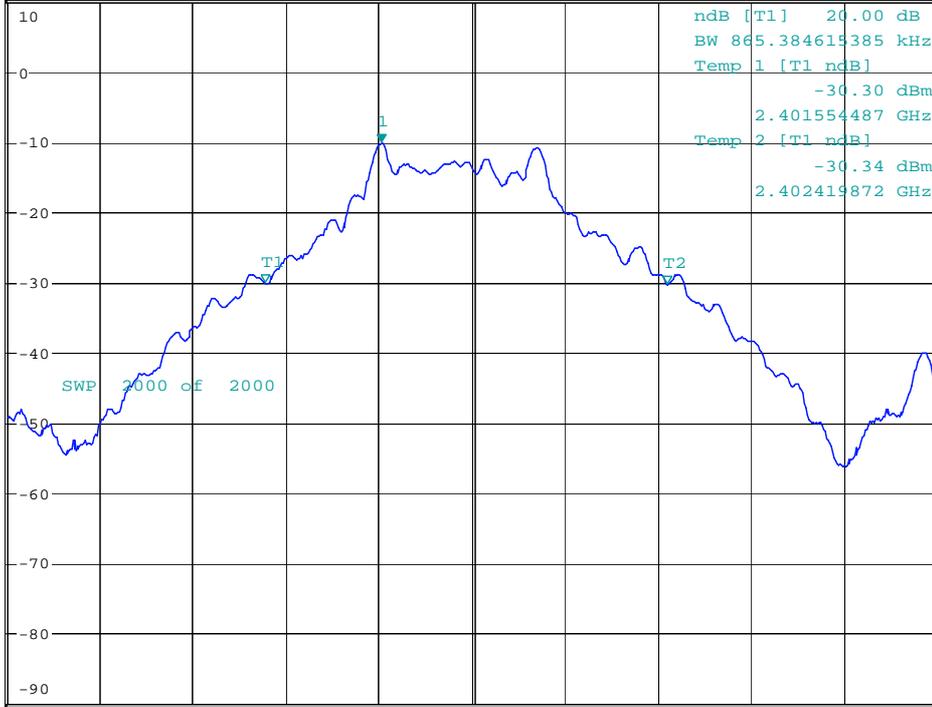


*RBW 30 kHz Marker 1 [T1]
VBW 100 kHz -10.26 dBm
SWT 10 ms 2.401804487 GHz

Ref 10 dBm

Att 35 dB

1 PK
MAXH



Center 2.402 GHz

200 kHz/

Span 2 MHz

Date: 25.AUG.2007 15:45:54

Channel 40 (2442MHz)

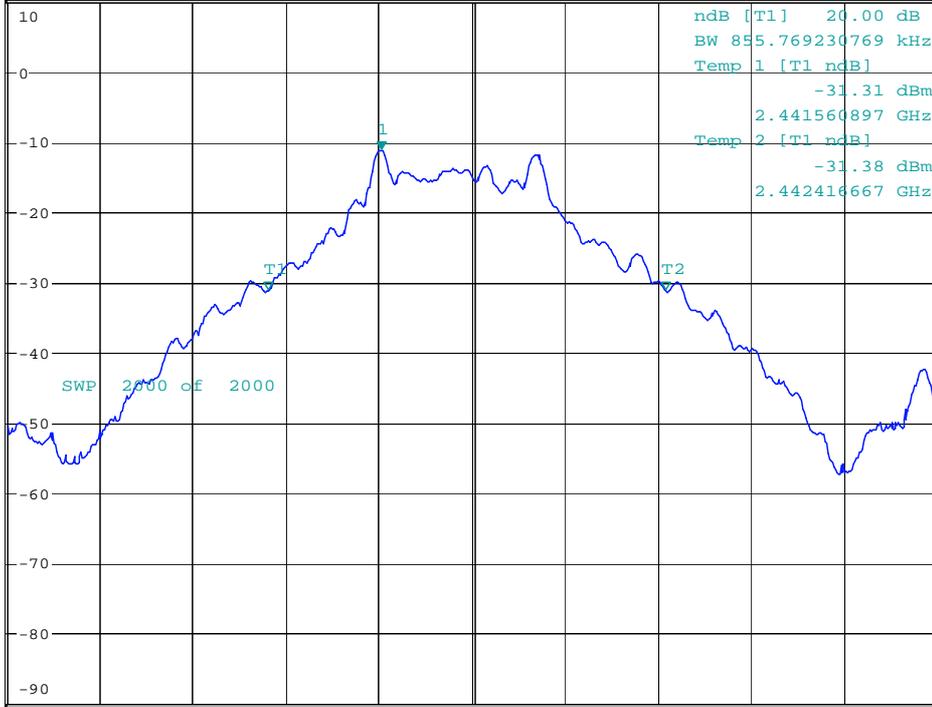


*RBW 30 kHz Marker 1 [T1]
VBW 100 kHz -11.26 dBm
SWT 10 ms 2.441804487 GHz

Ref 10 dBm

Att 35 dB

1 PK
MAXH



Date: 25.AUG.2007 15:59:17

Channel 78 (2480MHz)

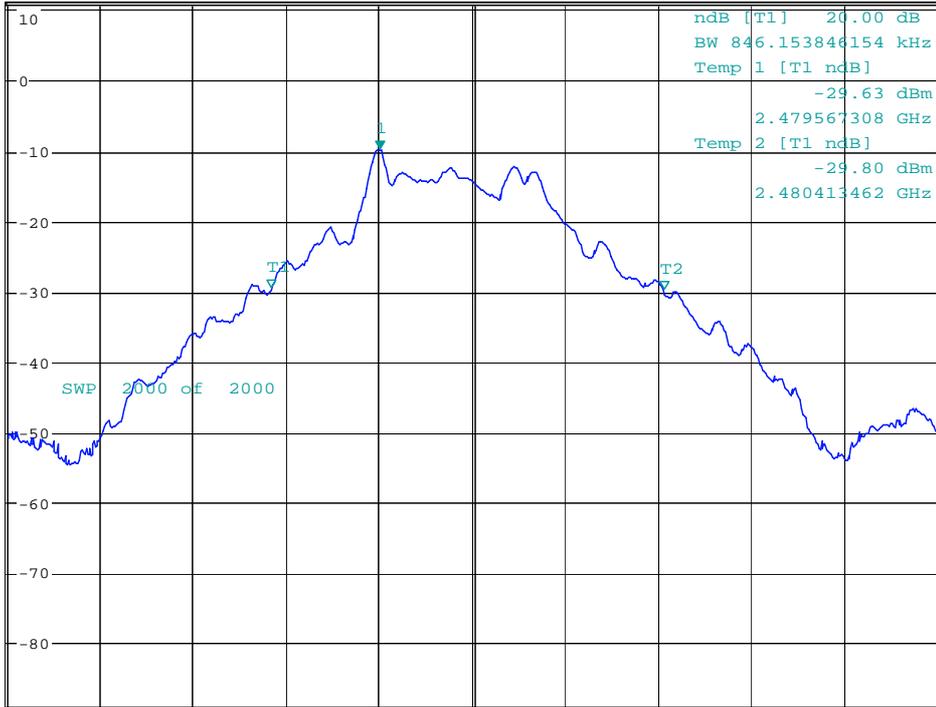


*RBW 30 kHz Marker 1 [T1]
VBW 100 kHz -9.80 dBm
SWT 10 ms 2.479801282 GHz

Ref 11 dBm

Att 40 dB

1 PK
MAXH



Center 2.48 GHz

200 kHz/

Span 2 MHz

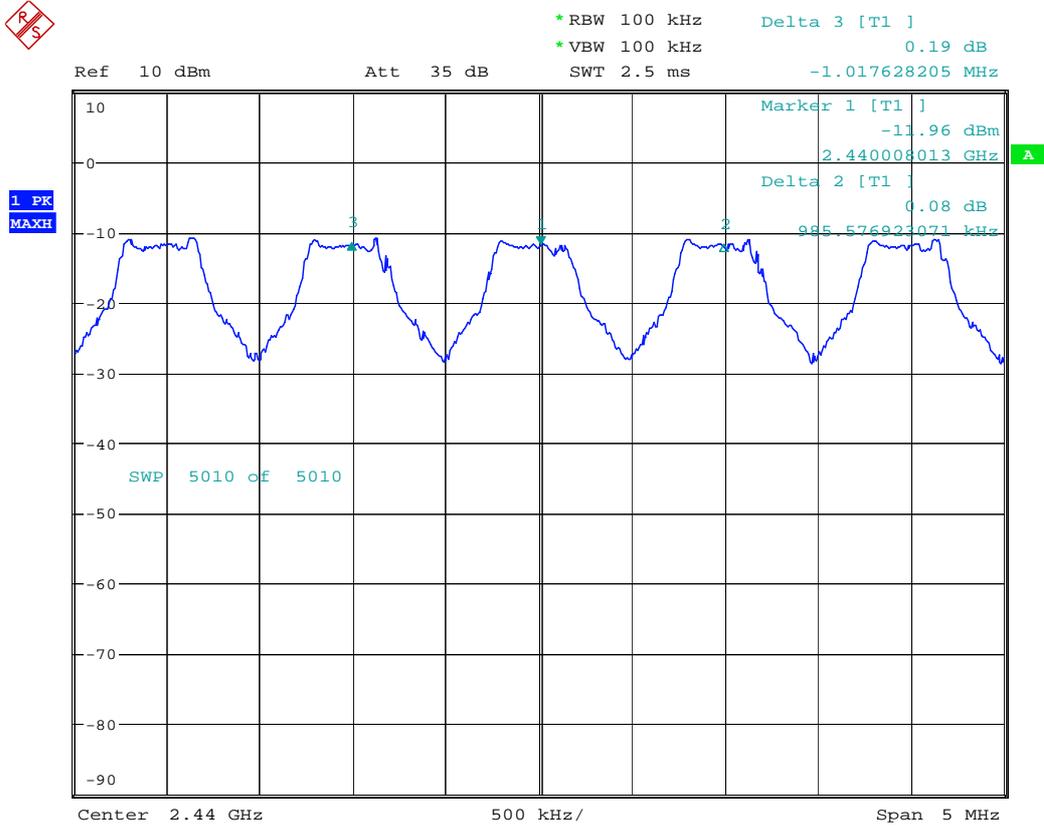
Date: 25.JUL.2007 17:19:03

Appendix B

Carrier frequency separation measurement

According to FCC Part 15.247 a (1)

Centred at Channel 39



Date: 25.AUG.2007 16:14:15

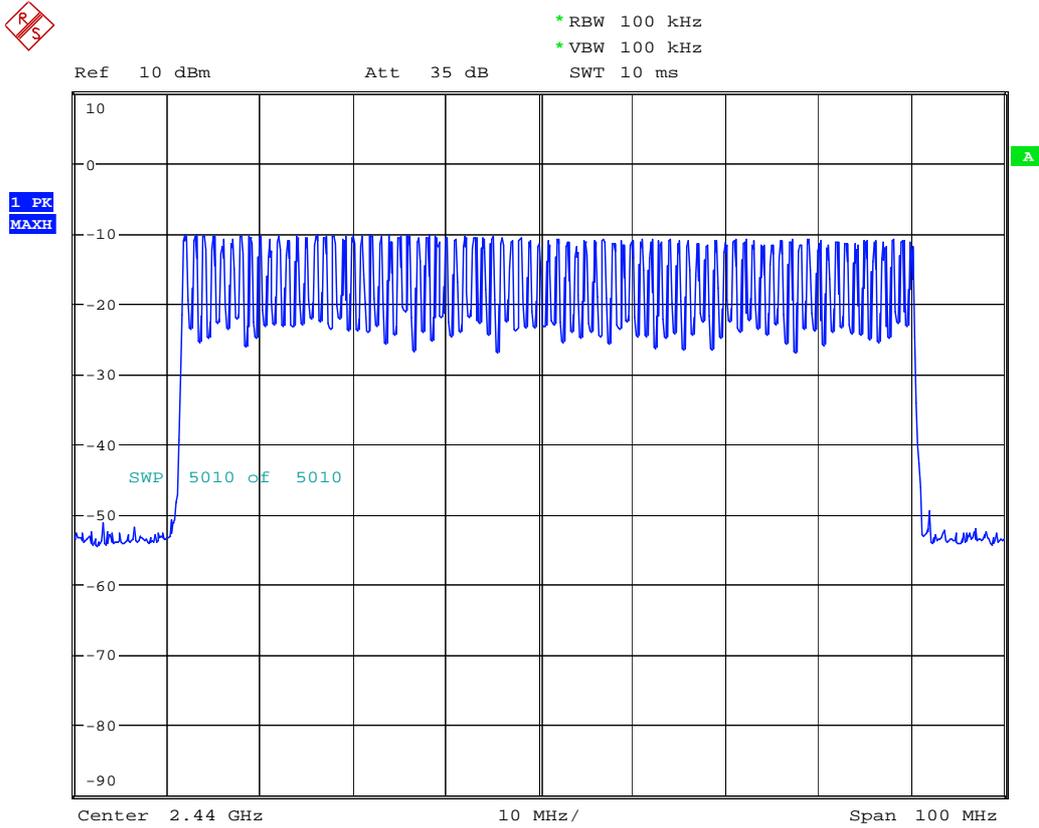
Appendix C

Number of hopping channel

According to FCC Part 15.247 a (1)

Total hopping channels = 79

There are 41 peaks between marker1 and marker3



Date: 25.AUG.2007 16:44:53

Appendix D

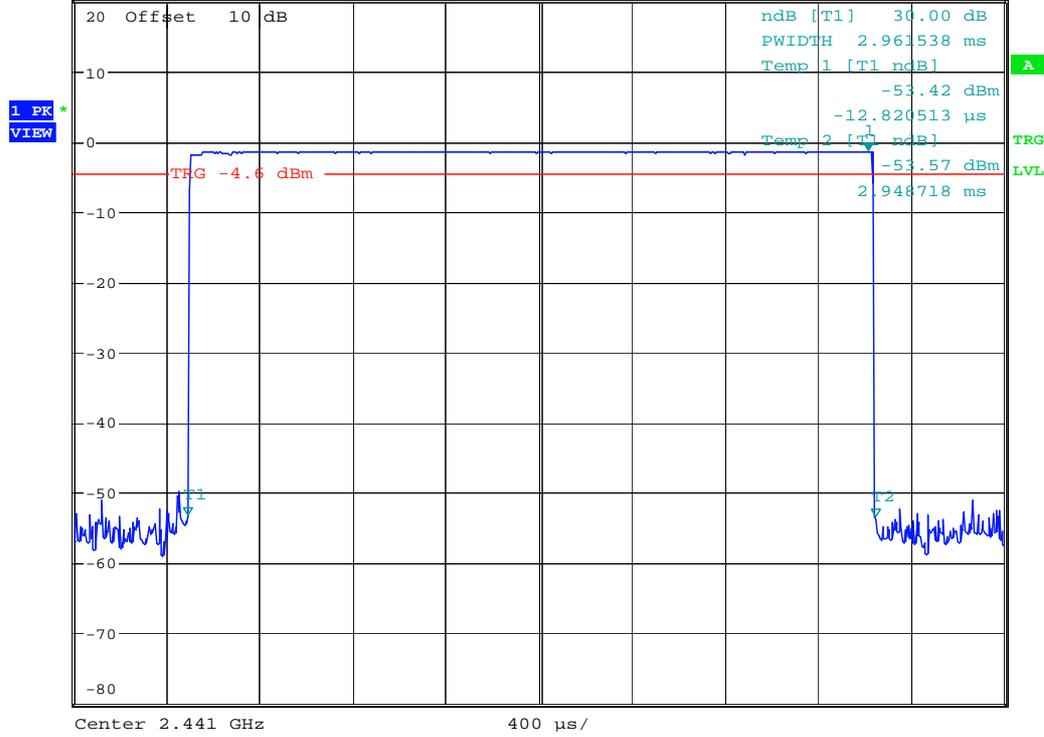
Time of occupancy

According to FCC Part 15.247 a (1)

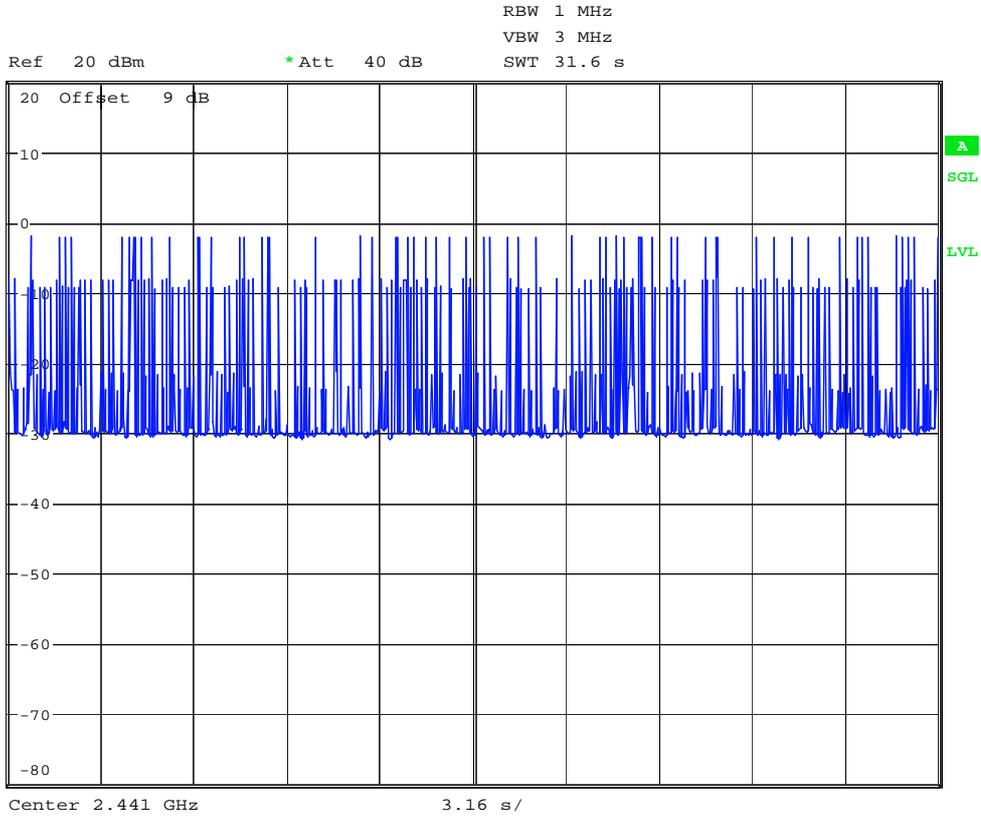
A burst (One time slot)



RBW 1 MHz Marker 1 [T1] -1.61 dBm
* VBW 1 MHz 2.916667 ms
Ref 20 dBm * Att 20 dB SWT 4 ms



A period (less than 116.7 burst)



Appendix E

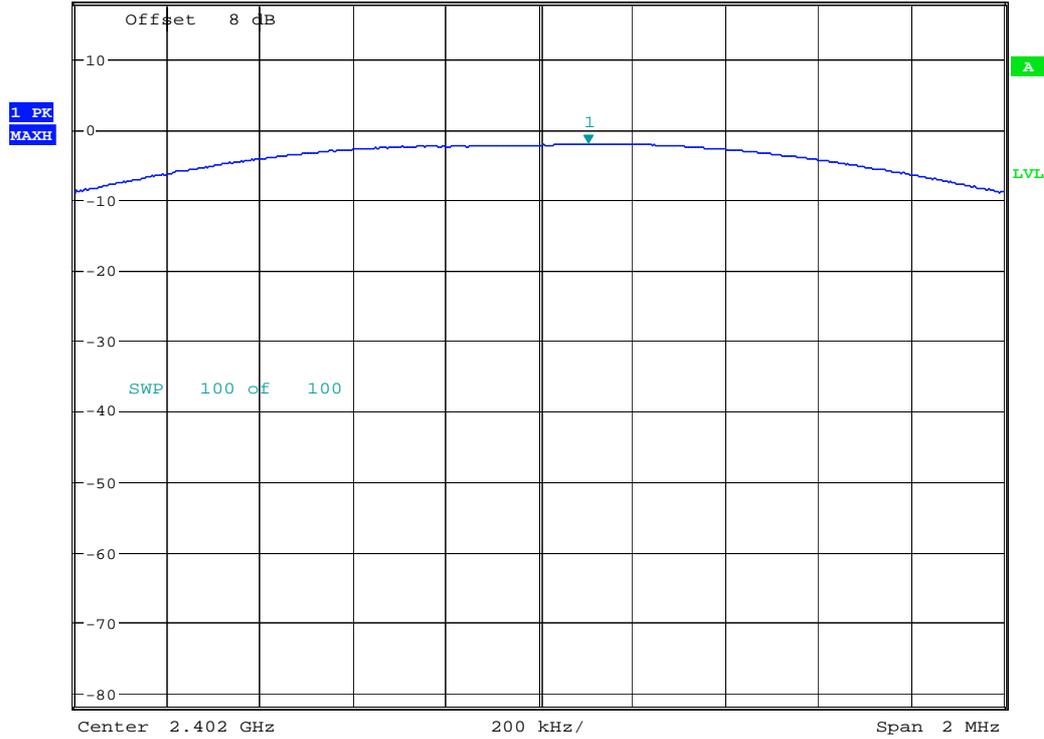
Peak output power

According to FCC Part 15.247 b (1)

Channel 0 (2402MHz)

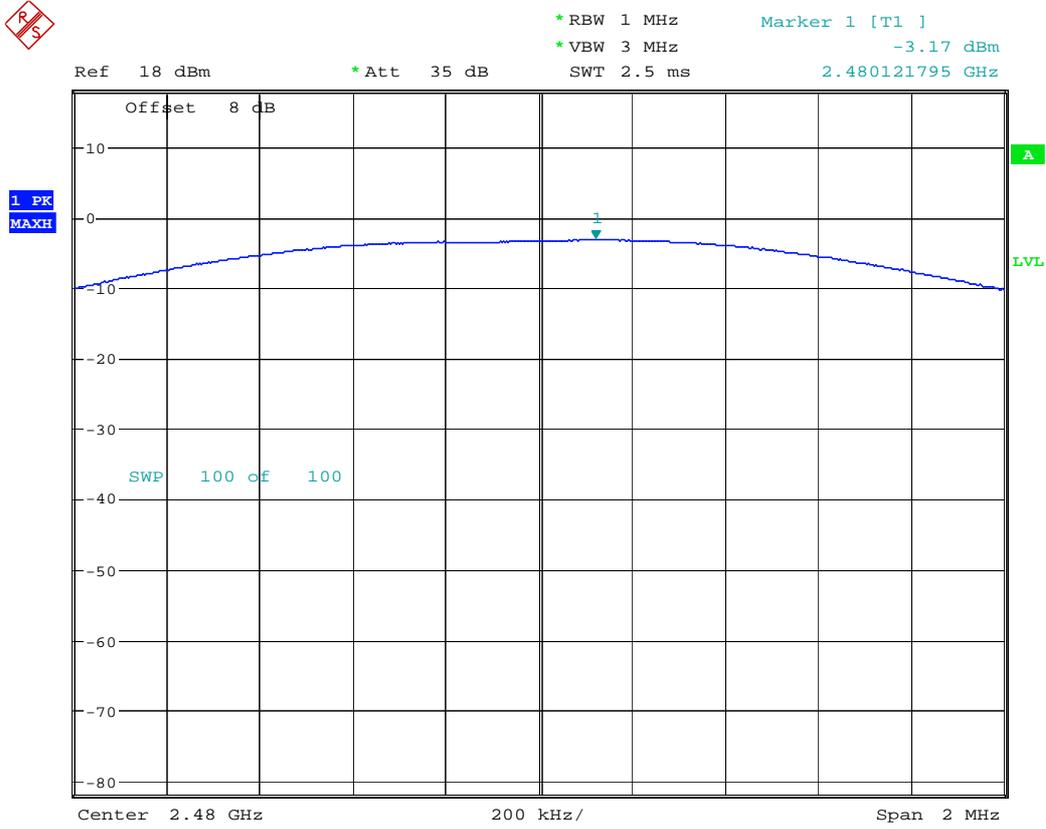


Ref 18 dBm *Att 35 dB *RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz -2.06 dBm
SWT 2.5 ms 2.402105769 GHz



Date: 25.AUG.2007 18:18:38

Channel 78 (2480MHz)



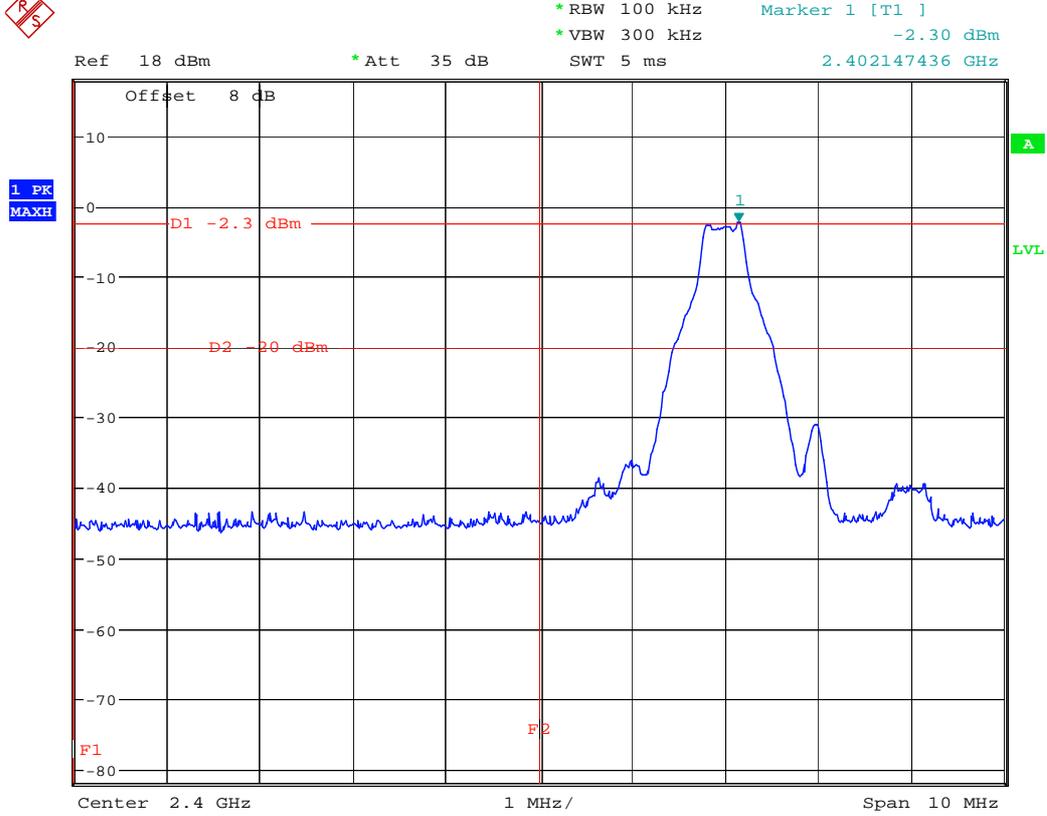
Date: 25.AUG.2007 18:19:43

Appendix F

Band edge spurious emission

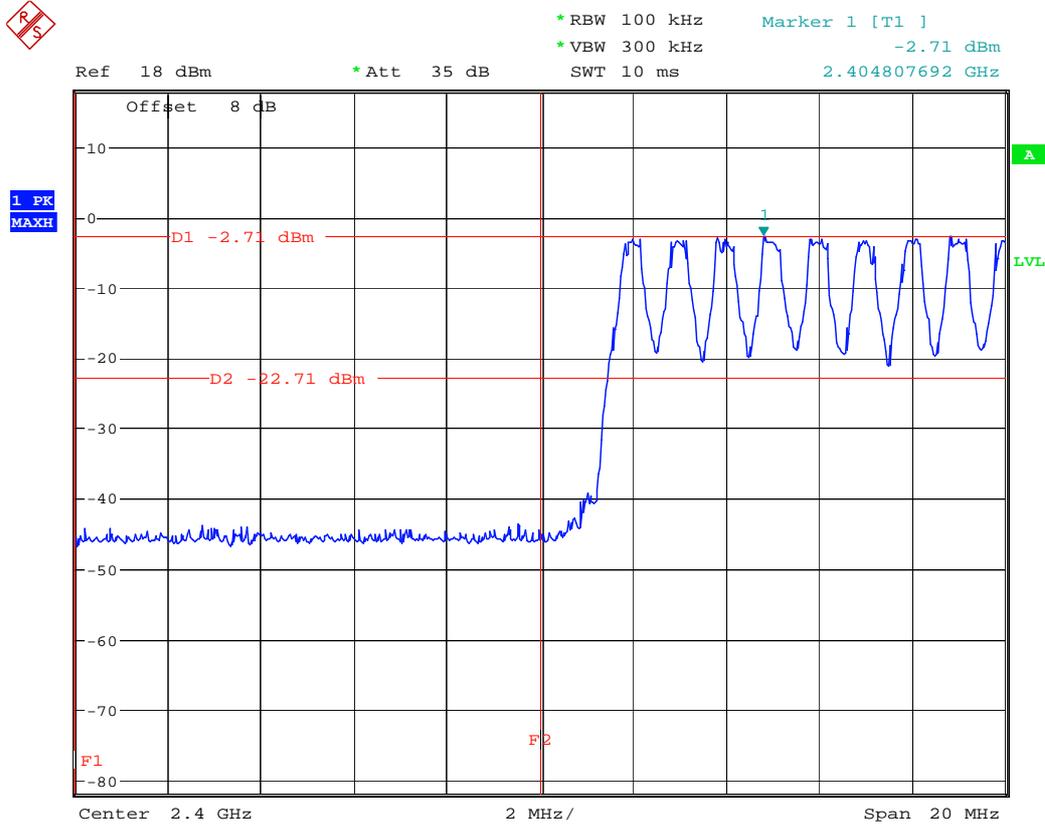
According to FCC Part 15.247 d

Low edge (Channel 0, no hopping)

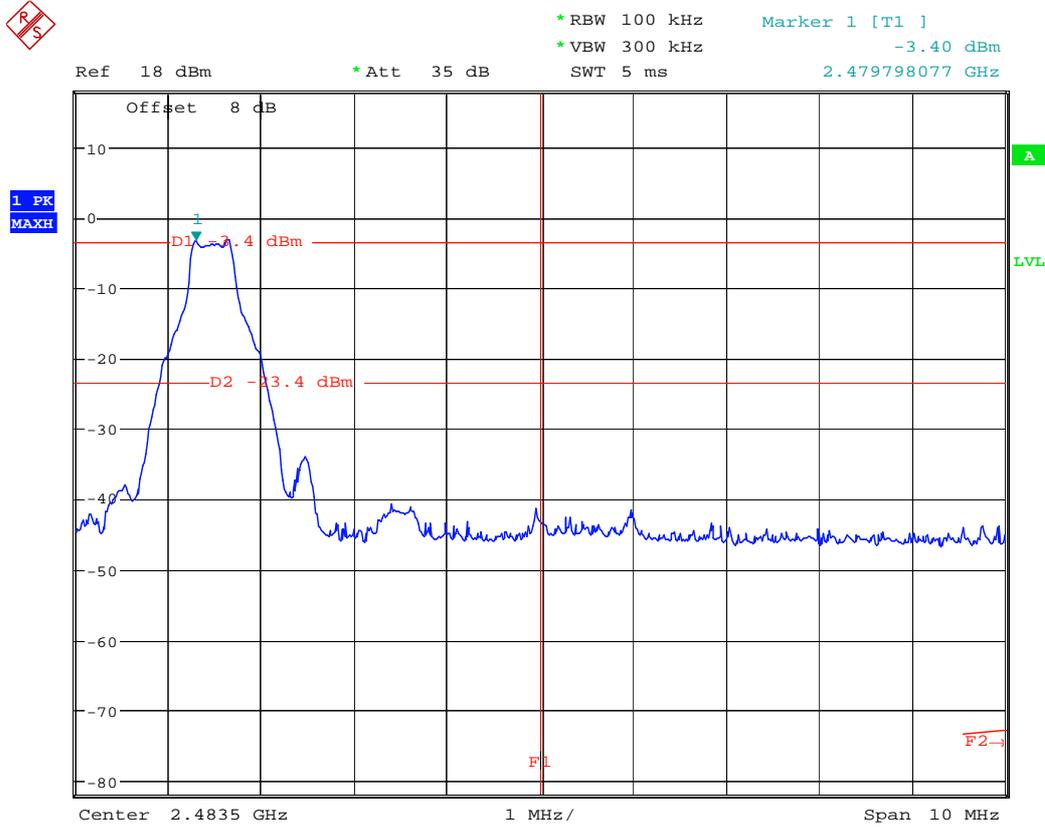


Date: 25.AUG.2007 18:28:15

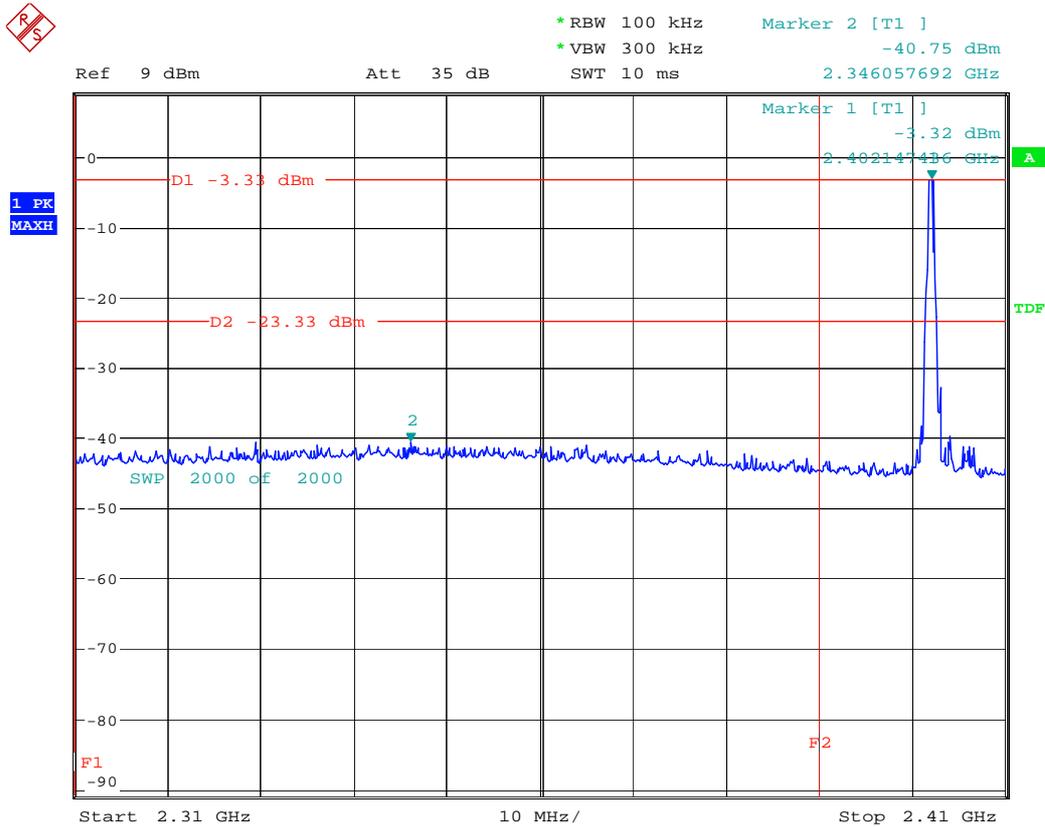
Low edge (with hopping)



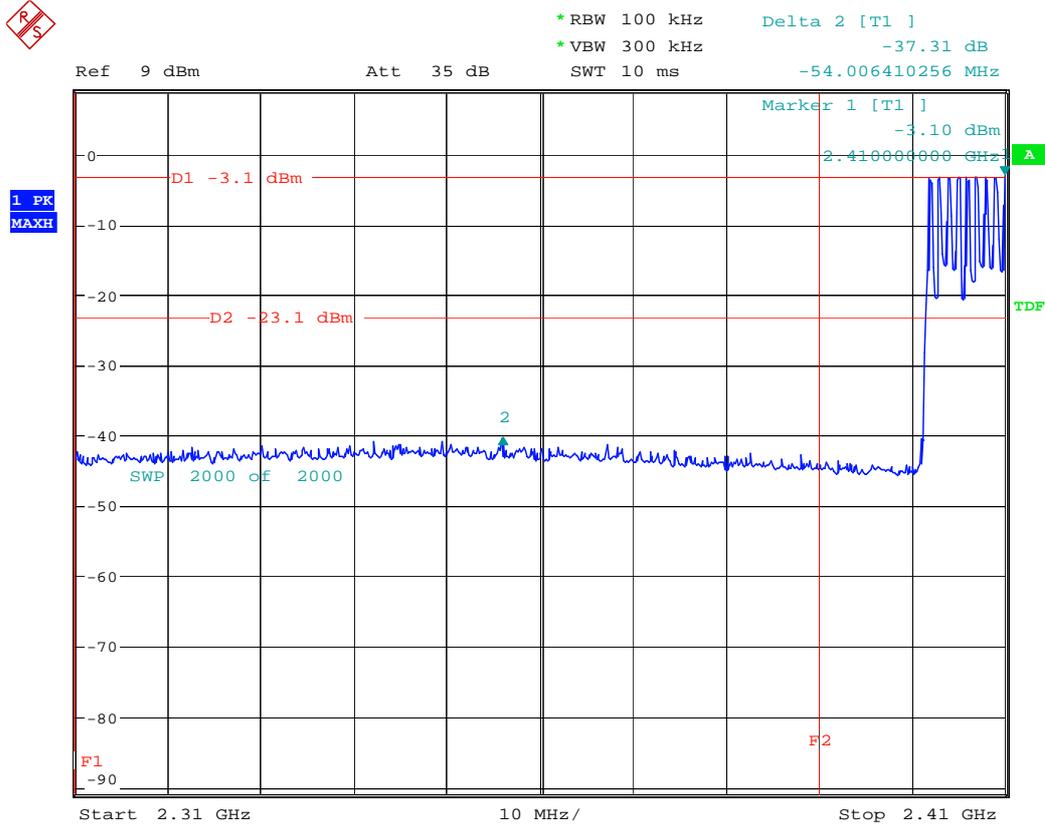
High edge (Channel 78, no hopping)



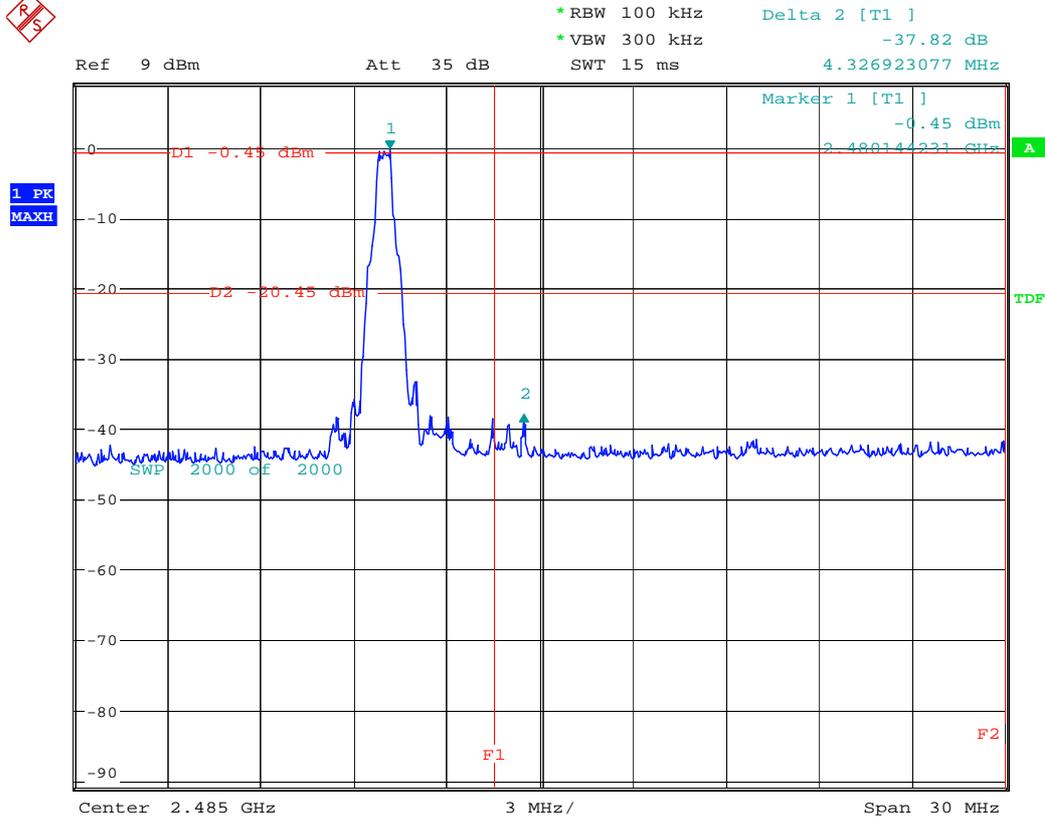
Restrict band 2310MHz to 2390MHz (Channel 0, no hopping)



Restrict band 2310MHz to 2390MHz (hopping)

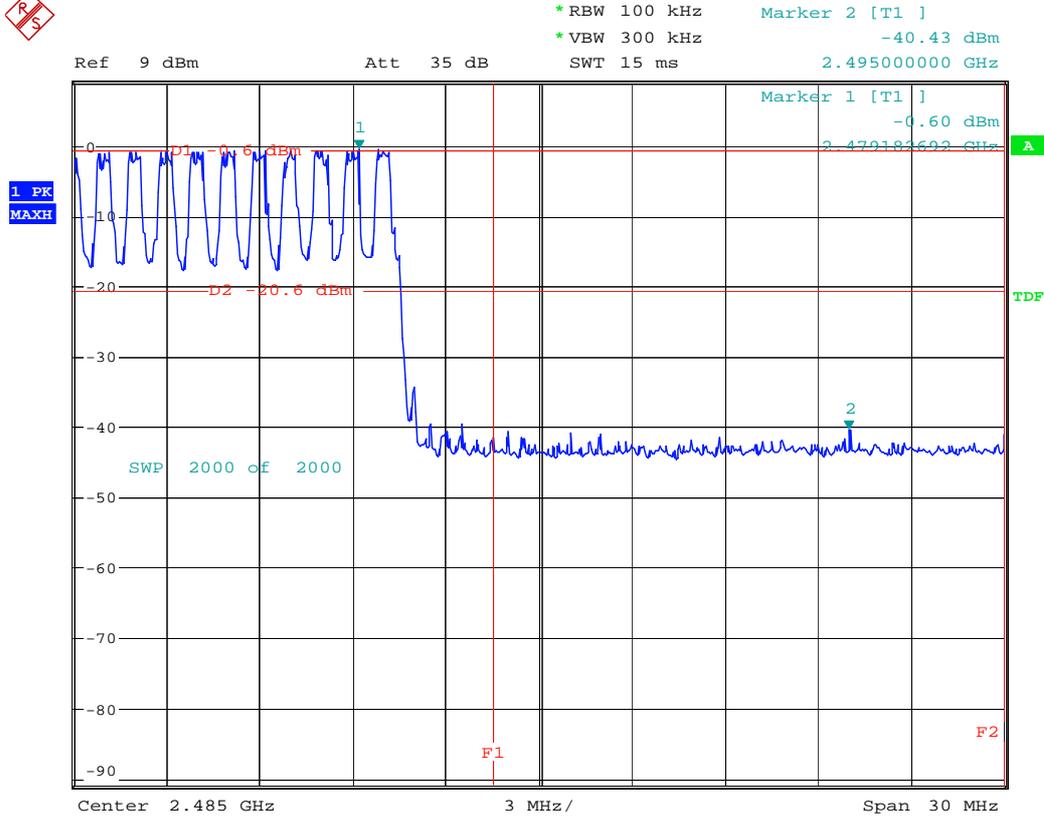


Restrict band 2483.5MHz to 2500MHz (channel 78, no hopping)



Date: 25.JUL.2007 21:13:16

Restrict band 2483.5MHz to 2500MHz (channel 78, with hopping)



Date: 25.JUL.2007 21:18:12

Appendix G

Conducted RF spurious

According to FCC Part 15.247 d

Channel 0

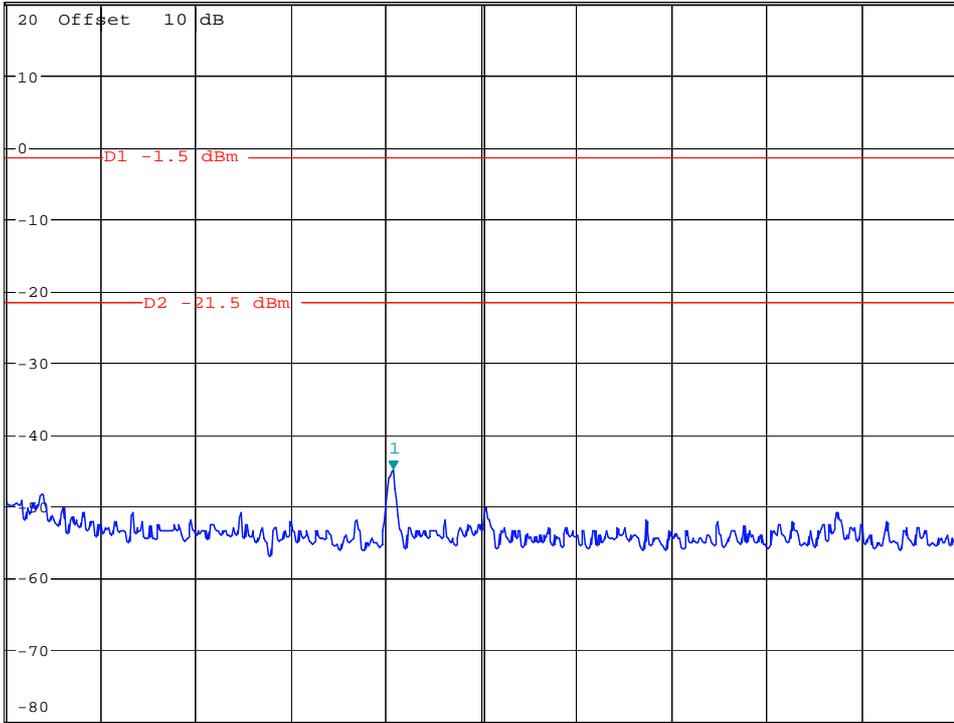


* RBW 1 kHz Marker 1 [T1]
VBW 3 kHz -45.08 dBm
SWT 145 ms 66.394230769 kHz

Ref 20 dBm

* Att 40 dB

1 PK
MAXH



Start 9 kHz

14.1 kHz/

Stop 150 kHz

Date: 3.SEP.2007 20:04:19

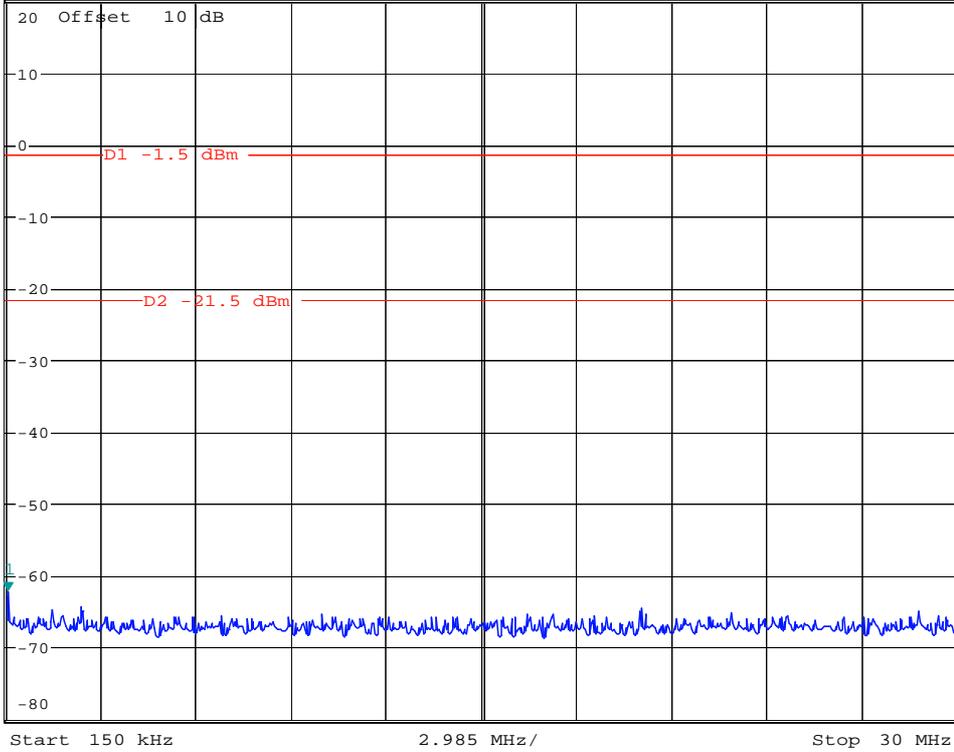


*RBW 10 kHz Marker 1 [T1]
VBW 30 kHz -62.17 dBm
SWT 300 ms 197.836538462 kHz

Ref 20 dBm

*Att 20 dB

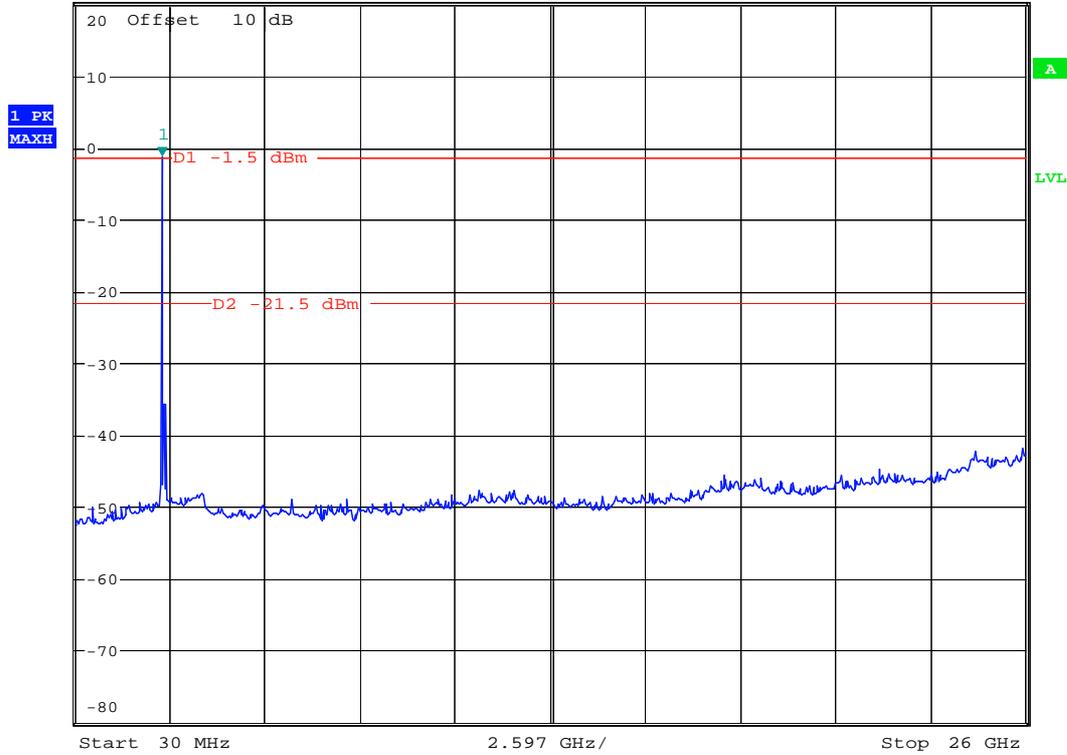
1 PK
MAXH



Date: 3.SEP.2007 20:03:14



*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz -1.40 dBm
Ref 20 dBm *Att 20 dB SWT 150 ms 2.402259615 GHz



Date: 3.SEP.2007 19:59:08

Channel 40

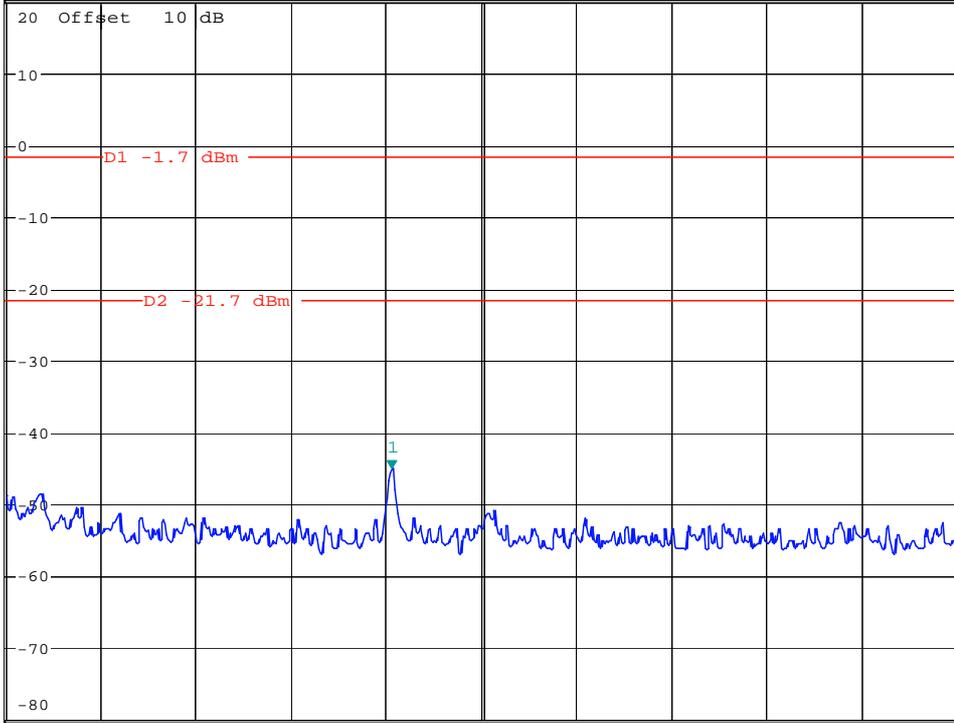


*RBW 1 kHz Marker 1 [T1]
VBW 3 kHz -45.20 dBm
SWT 145 ms 66.168269231 kHz

Ref 20 dBm

*Att 40 dB

1 PK
MAXH



Start 9 kHz

14.1 kHz/

Stop 150 kHz

Date: 3.SEP.2007 20:05:31

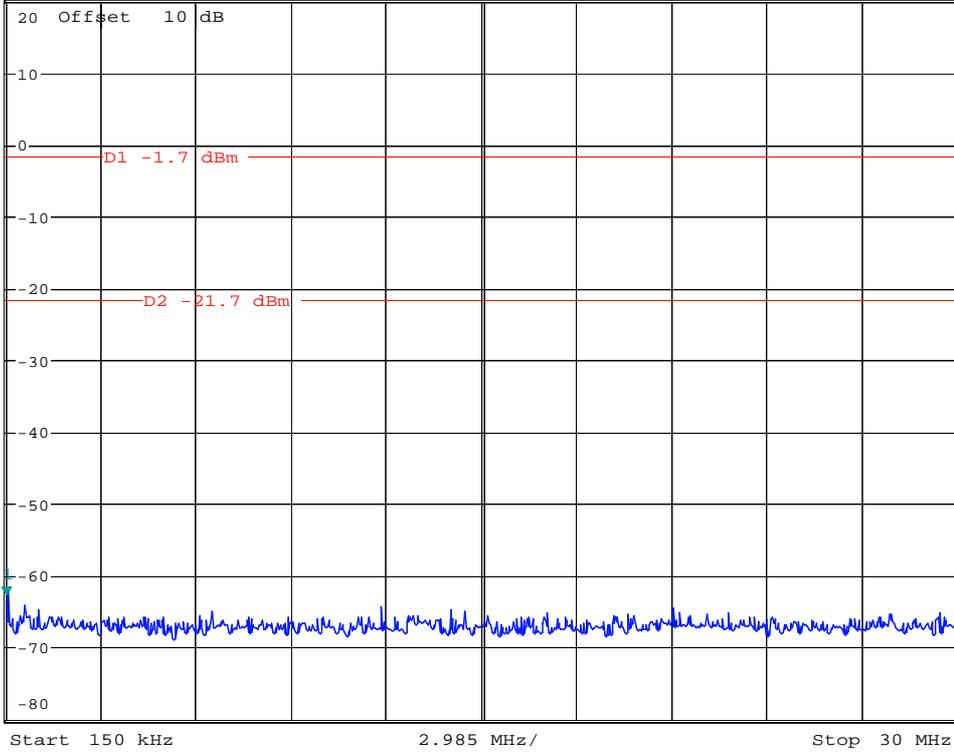


*RBW 10 kHz Marker 1 [T1]
VBW 30 kHz -62.82 dBm
SWT 300 ms 150.00000000 kHz

Ref 20 dBm

*Att 20 dB

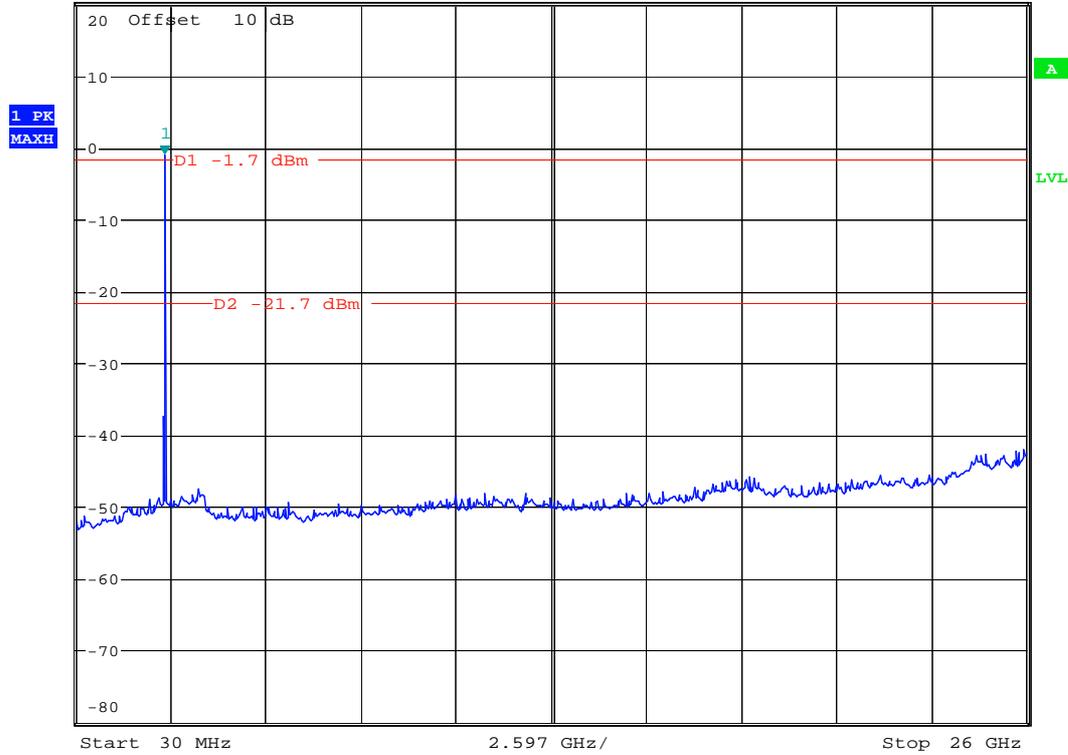
1 PK
MAXH



Date: 3.SEP.2007 20:07:07



Ref 20 dBm * Att 20 dB * RBW 1 MHz Marker 1 [T1]
VBW 3 MHz -1.13 dBm
SWT 150 ms 2.443878205 GHz

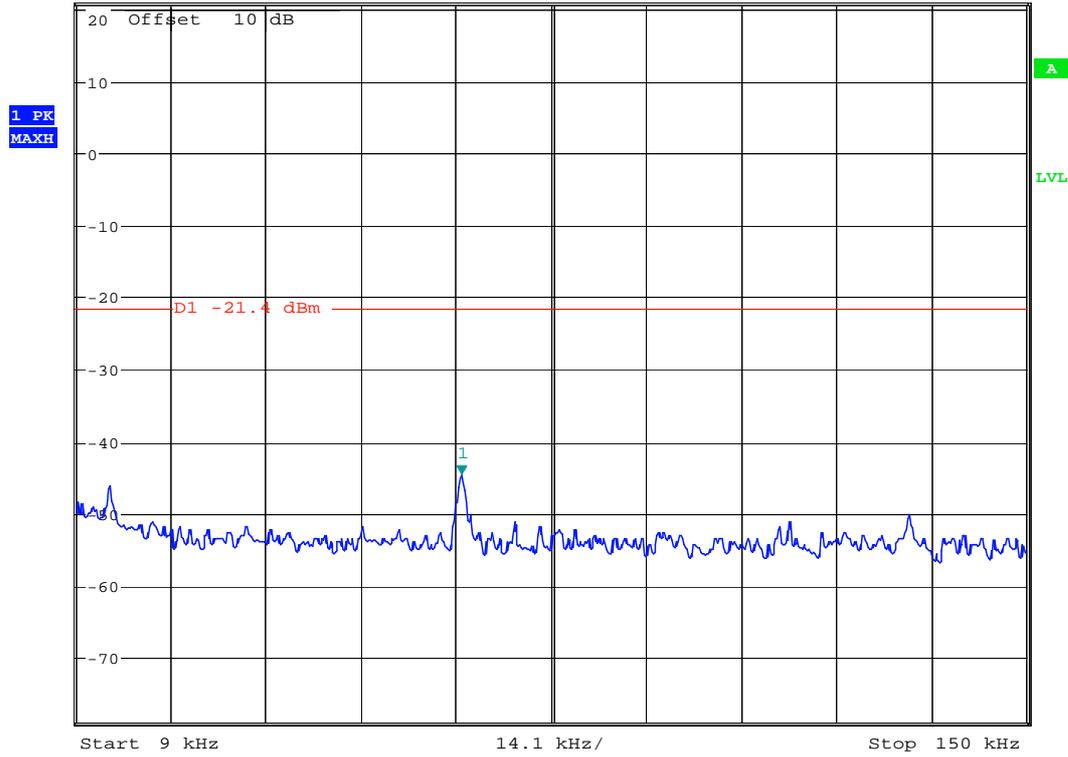


Date: 3.SEP.2007 20:07:54

Channel 78



Ref 20.9 dBm * Att 40 dB * RBW 1 kHz Marker 1 [T1]
* VBW 3 kHz -44.68 dBm
SWT 145 ms 66.168269231 kHz



Date: 3.SEP.2007 19:37:22

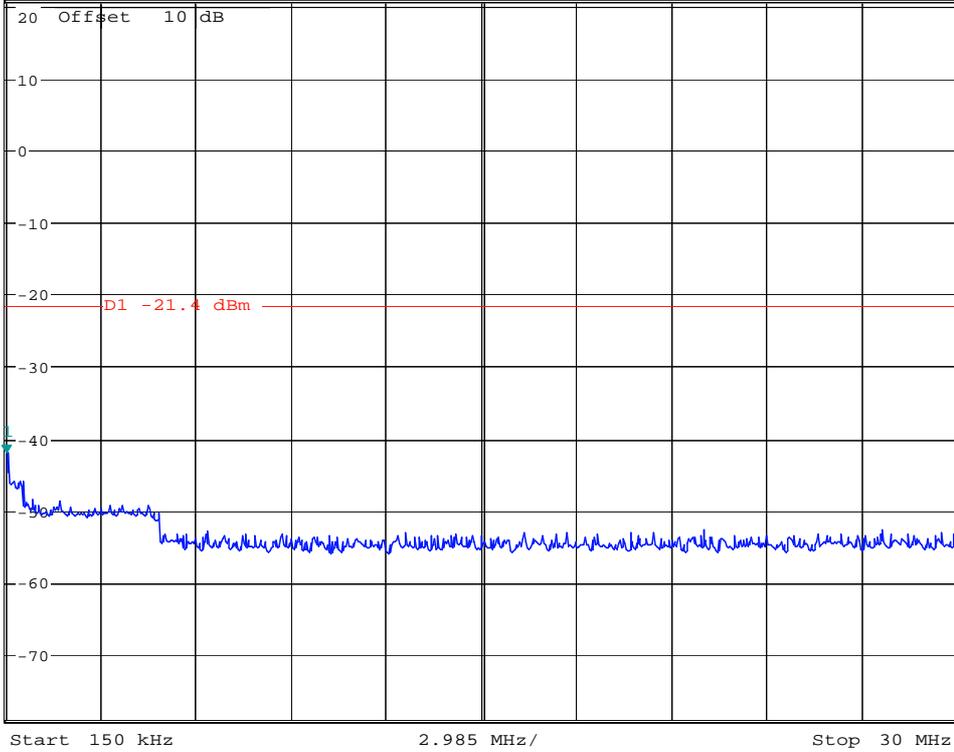


*RBW 10 kHz Marker 1 [T1]
*VBW 30 kHz -42.17 dBm
SWT 300 ms 150.00000000 kHz

Ref 20.9 dBm

*Att 40 dB

1 PK
MAXH

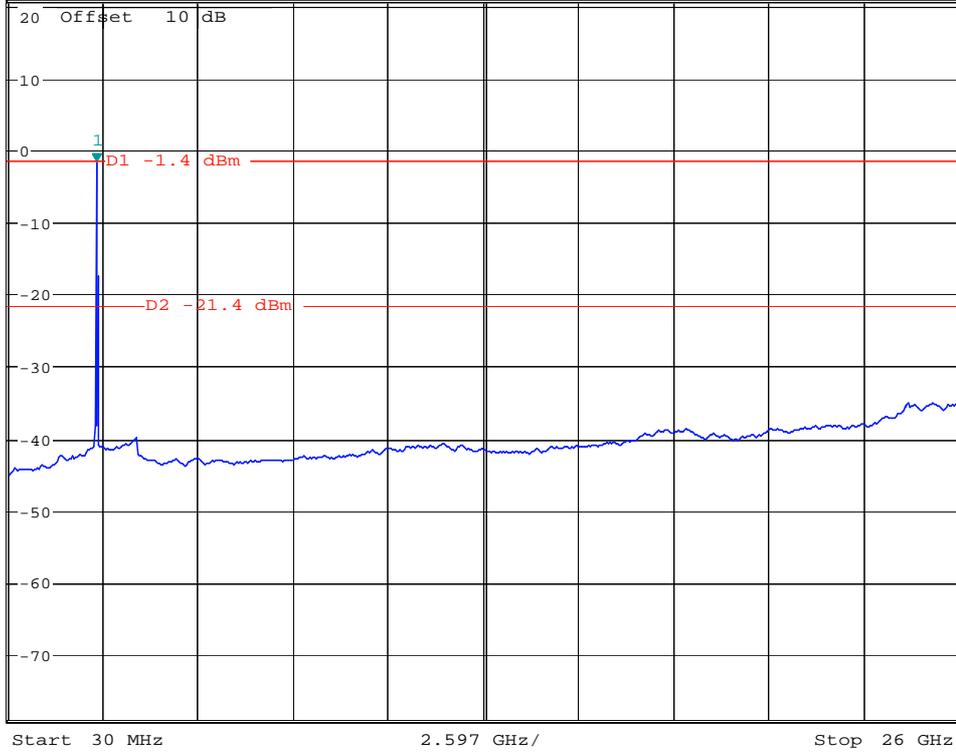


Date: 3.SEP.2007 19:34:22



* RBW 1 MHz Marker 1 [T1]
* VBW 3 kHz -1.77 dBm
Ref 20.9 dBm * Att 40 dB SWT 8.8 s 2.443878205 GHz

1 PK
MAXH



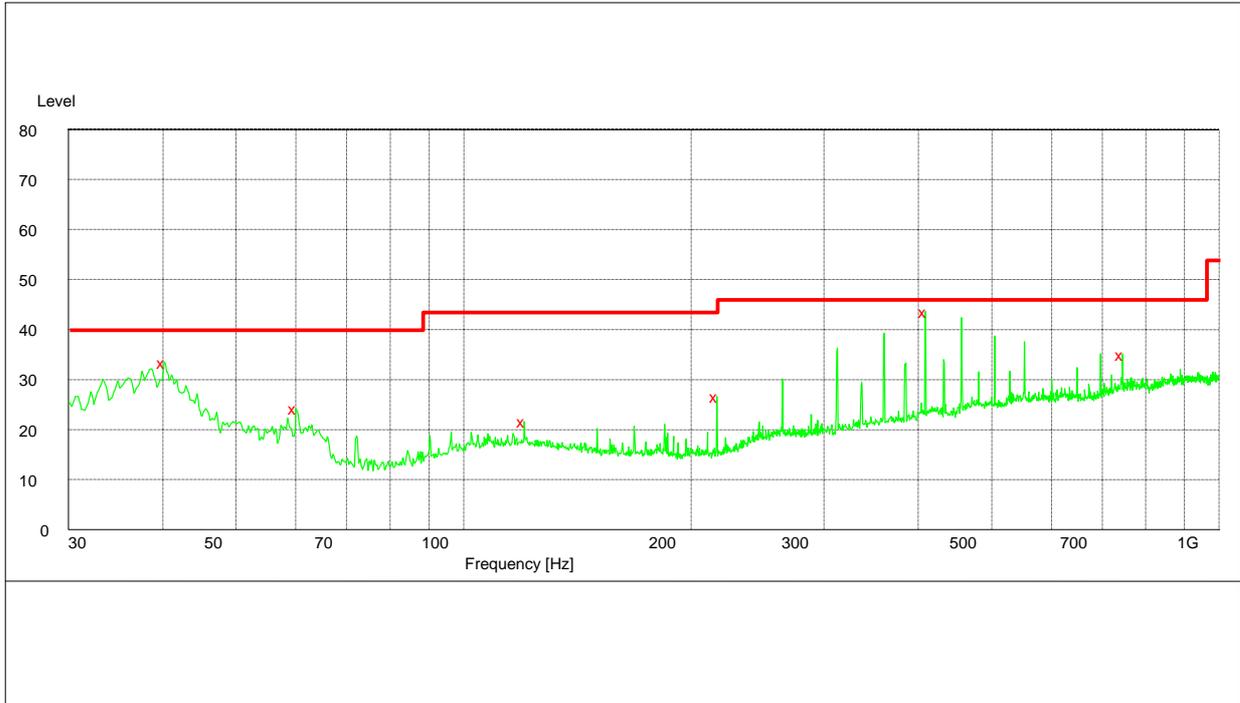
Date: 3.SEP.2007 19:41:36

Appendix H

Radiated spurious emission & spurious in restricted band

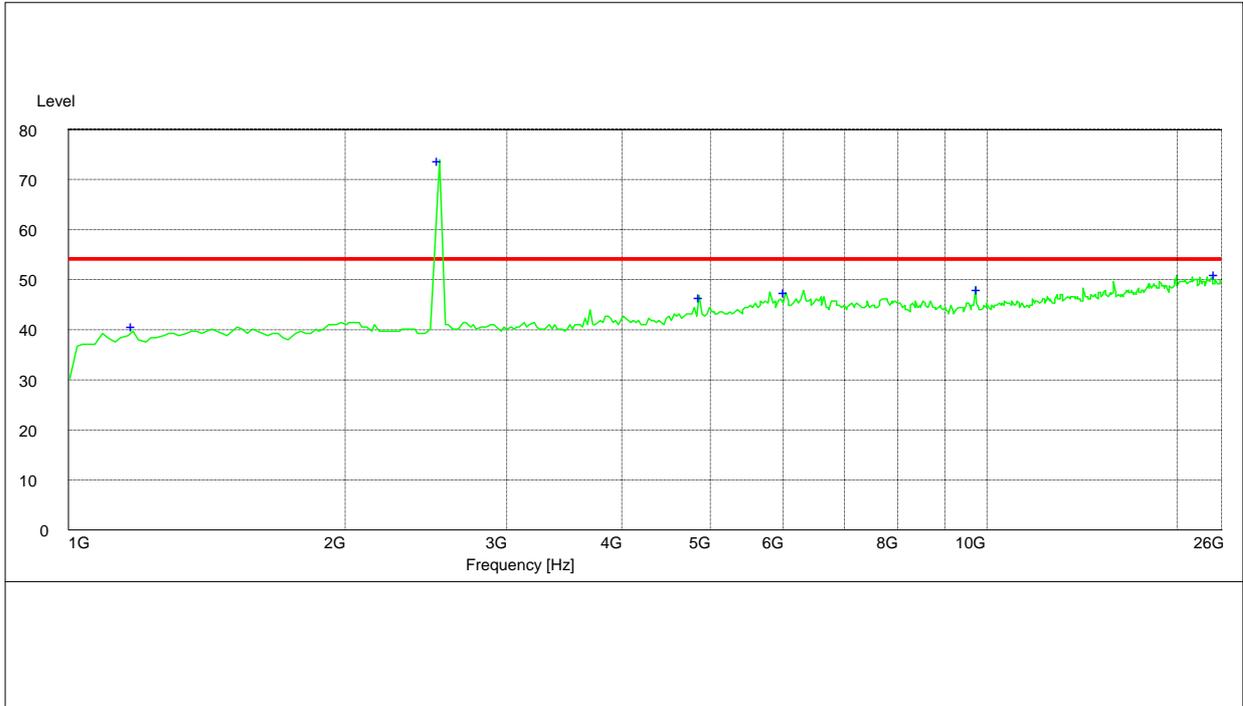
According to FCC Part 15.247 d & 15.205 & 15.209

Channel 0 30MHz to 1GHz



Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
40.200000	33.50	-9.7	40.0	6.5	100.0	90.00	VERTICAL
60.000000	24.20	-16.4	40.0	15.8	100.0	90.00	VERTICAL
120.300000	21.60	-9.5	43.5	21.9	100.0	0.00	VERTICAL
216.300000	26.70	-11.5	46.0	19.3	100.0	90.00	HORIZONTAL
408.888889	43.60	-3.9	46.0	2.4	100.0	270.00	HORIZONTAL
744.888889	35.10	-0.2	46.0	11.9	100.0	90.00	HORIZONTAL

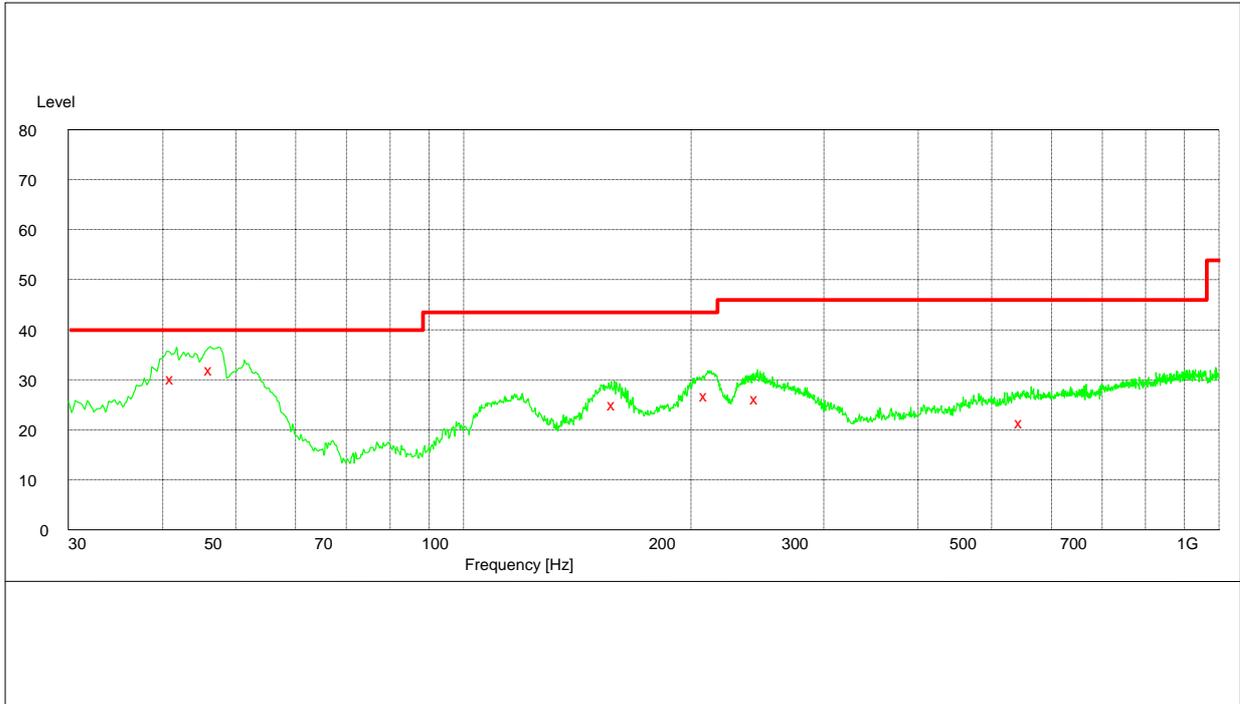
1GHz to 26GHz



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

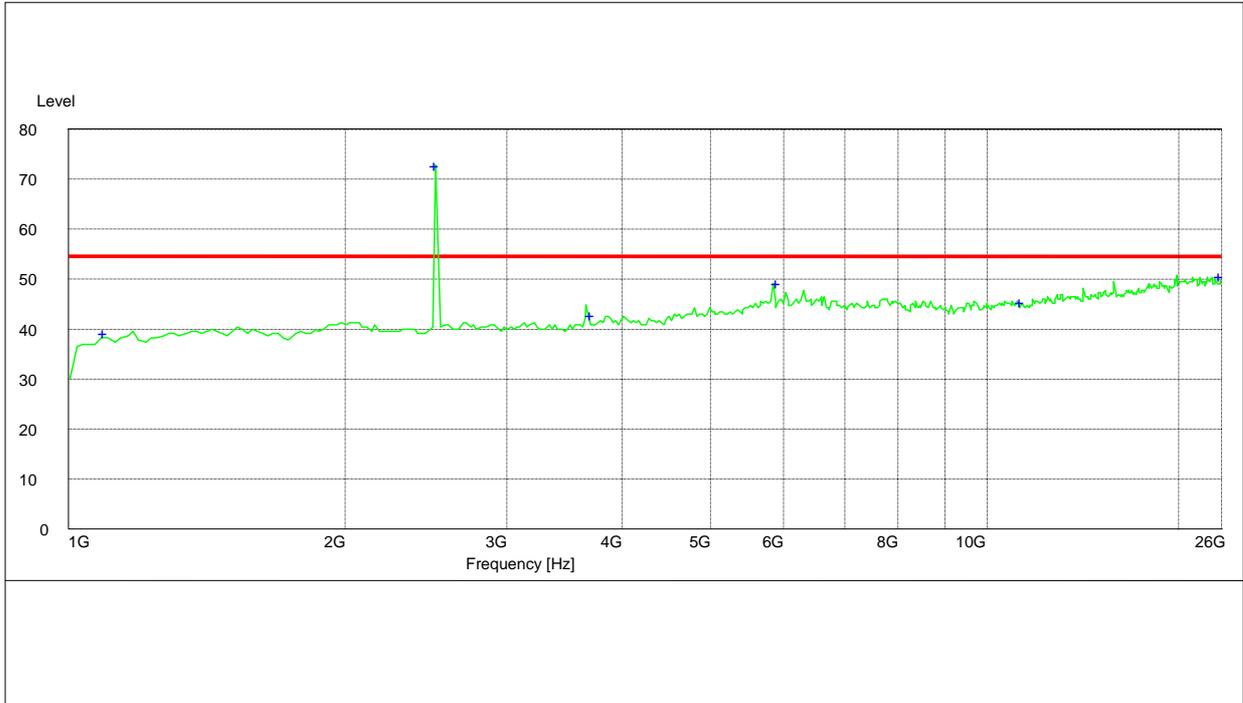
Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Height cm	Azimuth deg	Polarization
1175.500000	40.20	-6.5	54.0	13.8	100.0	300.00	HORIZONTAL
2402.000000	74.80	2.0	54.0	-20.8	100.0	50.00	VERTICAL
4805.000000	46.50	10.0	54.0	7.5	100.0	0.00	VERTICAL
6000.500000	47.10	12.7	54.0	6.9	200.0	325.00	HORIZONTAL
12921.000000	48.20	31.6	54.0	5.8	100.0	120.00	HORIZONTAL
25300.000000	50.80	51.0	54.0	3.2	300.0	300.00	VERTICAL

Channel 40 30MHz to 1GHz



Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Height cm	Azimuth deg	Polarization
41.280000	30.30	-10.4	40.0	9.7	105.0	360.00	VERTICAL
46.440000	32.10	-12.8	40.0	7.9	100.0	302.00	VERTICAL
158.580000	25.20	-11.6	43.5	18.3	212.0	122.00	HORIZONTAL
210.240000	26.90	-11.7	43.5	16.6	105.0	278.00	HORIZONTAL
244.980000	26.30	-8.7	46.0	19.7	112.0	161.00	HORIZONTAL
548.700000	21.60	-1.7	46.0	14.4	224.0	158.00	VERTICAL

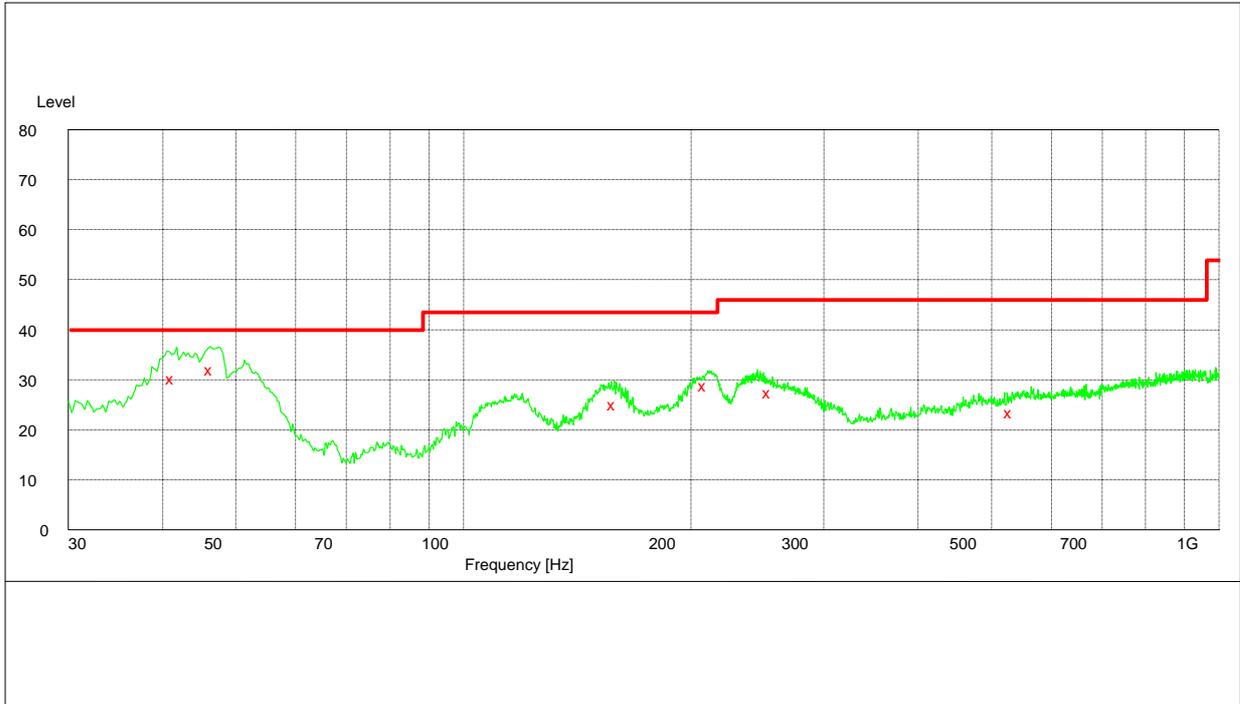
1GHz to 26GHz



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

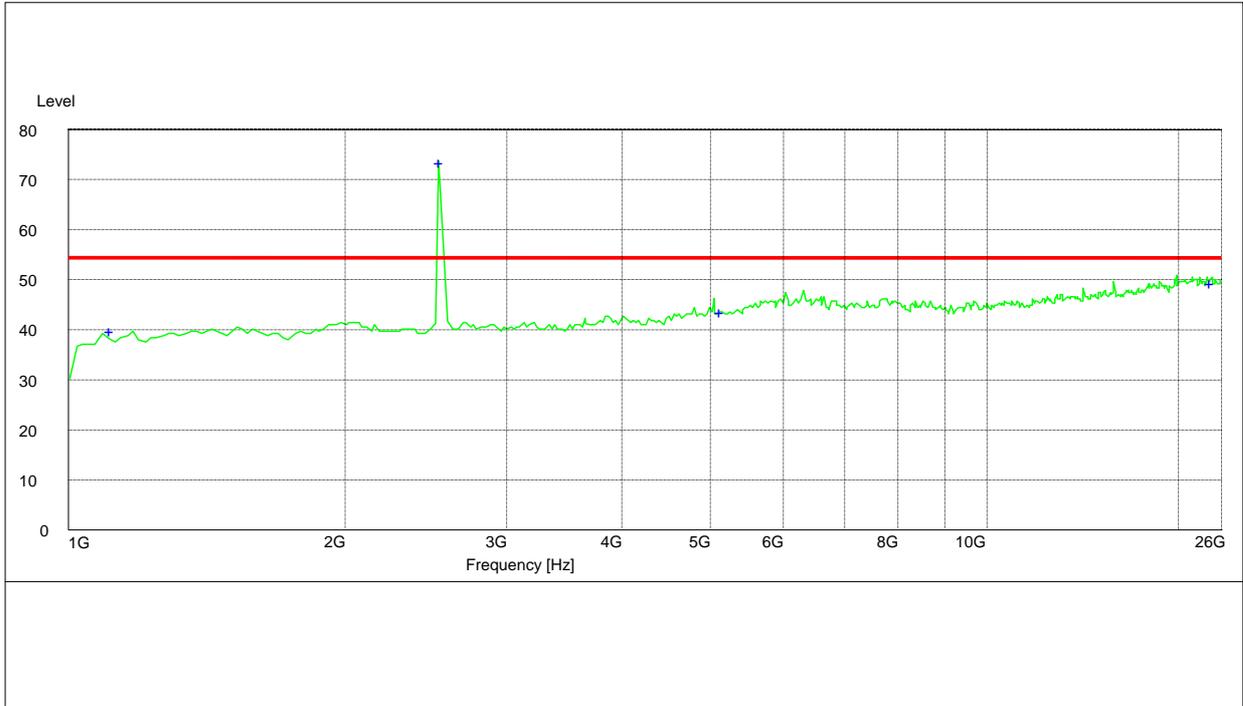
Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Height cm	Azimuth deg	Polarization
1100.000000	39.30	-6.5	54.0	14.7	220.0	305.00	HORIZONTAL
2442.000000	72.80	2.1	54.0	-18.8	100.0	266.00	VERTICAL
3750.000000	42.00	7.0	54.0	12.0	106.0	4.00	VERTICAL
5925.500000	49.90	12.7	54.0	4.1	112.0	26.00	VERTICAL
12924.500000	45.10	31.6	54.0	8.9	300.0	275.00	HORIZONTAL
25998.000000	50.90	52.1	54.0	3.1	200.0	115.00	VERTICAL

Channel 78 30MHz to 1GHz



Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Height cm	Azimuth deg	Polarization
41.950000	30.30	-10.4	40.0	9.7	105.0	360.00	VERTICAL
47.210000	32.10	-12.8	40.0	7.9	100.0	302.00	VERTICAL
159.580000	25.20	-11.6	43.5	18.3	212.0	122.00	HORIZONTAL
210.240000	26.90	-11.7	43.5	16.6	105.0	278.00	HORIZONTAL
246.980000	26.30	-8.7	46.0	19.7	112.0	161.00	HORIZONTAL
548.700000	21.60	-1.7	46.0	14.4	224.0	158.00	VERTICAL

1GHz to 26GHz



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

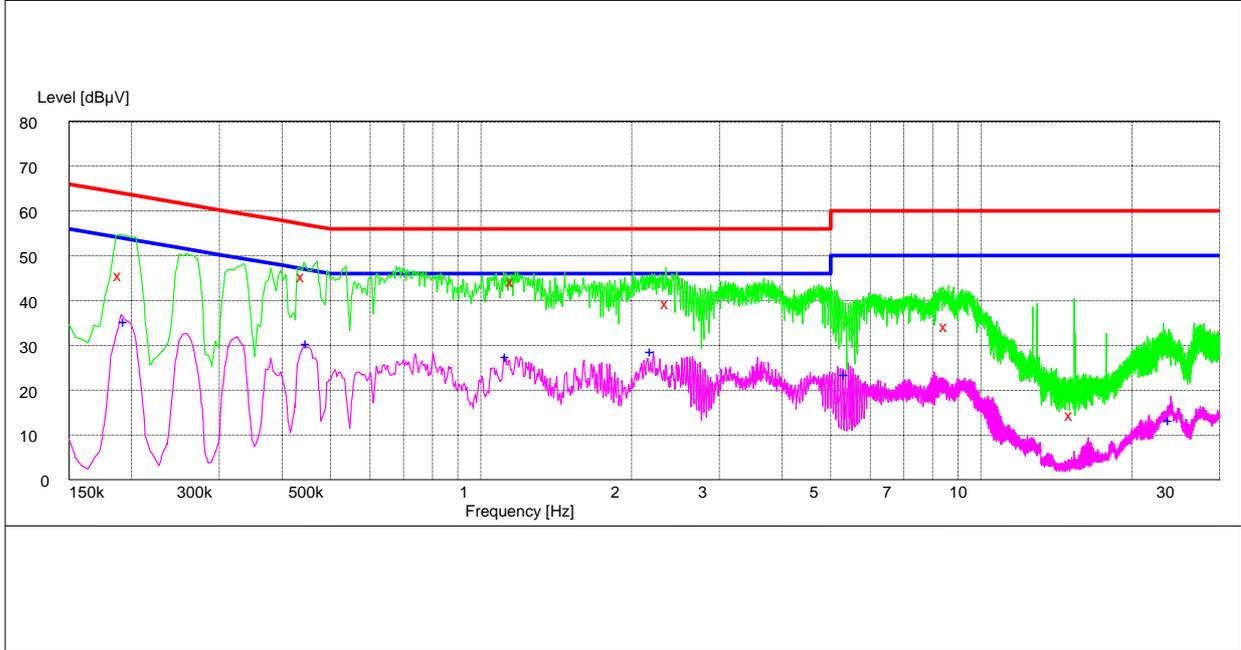
Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Height cm	Azimuth deg	Polarization
1100.000000	39.50	-6.5	54.0	14.5	130.0	125.00	VERTICAL
2480.000000	74.50	2.3	54.0	-20.5	90.0	250.00	VERTICAL
5087.500000	43.60	12.1	54.0	10.4	180.0	240.00	VERTICAL
22248.500000	49.00	48.8	54.0	5.0	100.0	200.00	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	Detector	Line	PE
0.190500	46.00	10.6	64	18.0	QP	L3	FLO
0.442500	45.80	10.0	57	11.2	QP	L3	FLO
1.162500	44.60	10.0	56	11.4	QP	L3	FLO
2.368500	39.80	10.1	56	16.2	QP	L3	FLO
8.547000	34.70	10.6	60	25.3	QP	L3	FLO
15.247500	14.70	11.3	60	45.3	QP	L3	FLO

MEASUREMENT RESULT:

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.195000	35.60	10.5	54	18.4	AV	L3	FLO
0.451500	30.90	10.0	47	16.1	AV	L3	FLO
1.131000	28.00	10.0	46	18.0	AV	L3	FLO
2.202000	29.10	10.1	46	16.9	AV	L3	FLO
5.388000	23.90	10.1	50	26.1	AV	L3	FLO
23.932500	13.60	15.2	50	36.4	AV	L3	FLO

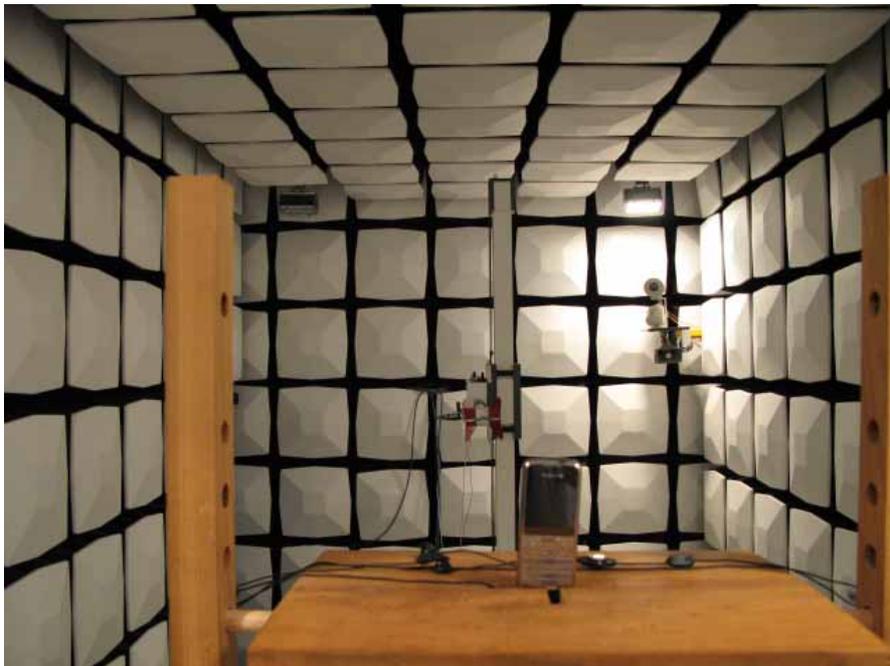
Appendix J

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