



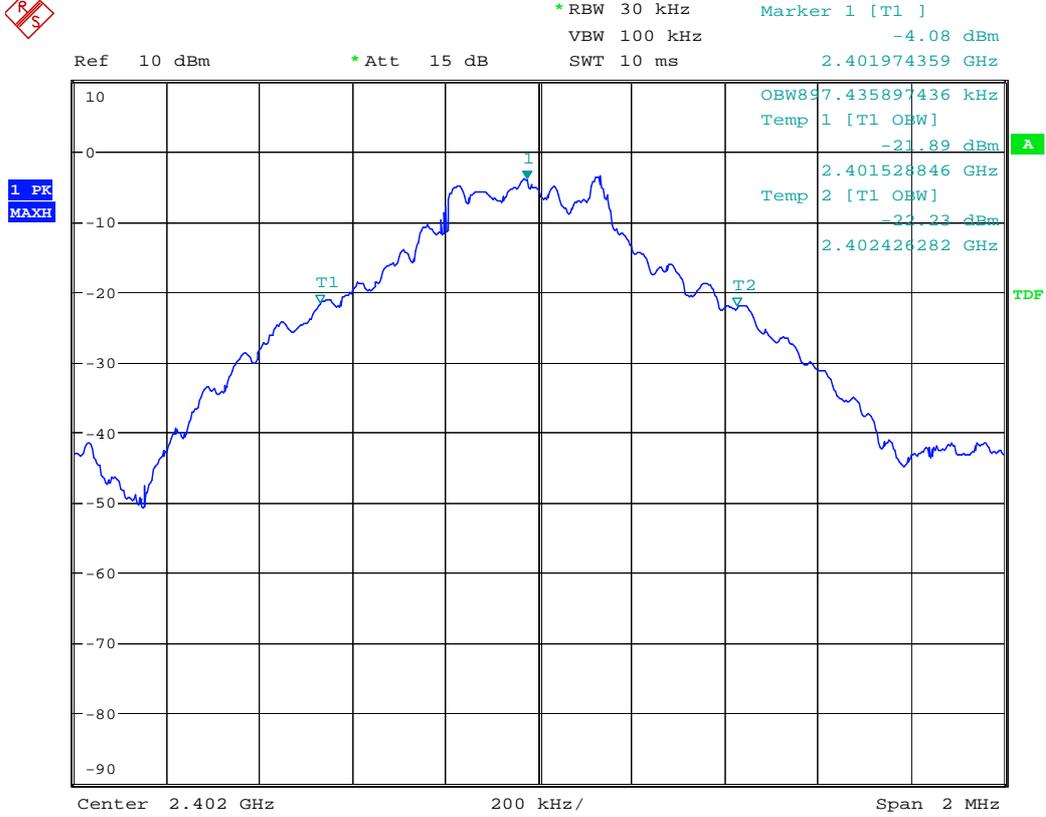
# **Appendix A**

## 20dB bandwidth measurement

According to FCC Part 15.247 (a) (1)



# Channel 0 (2402MHz)

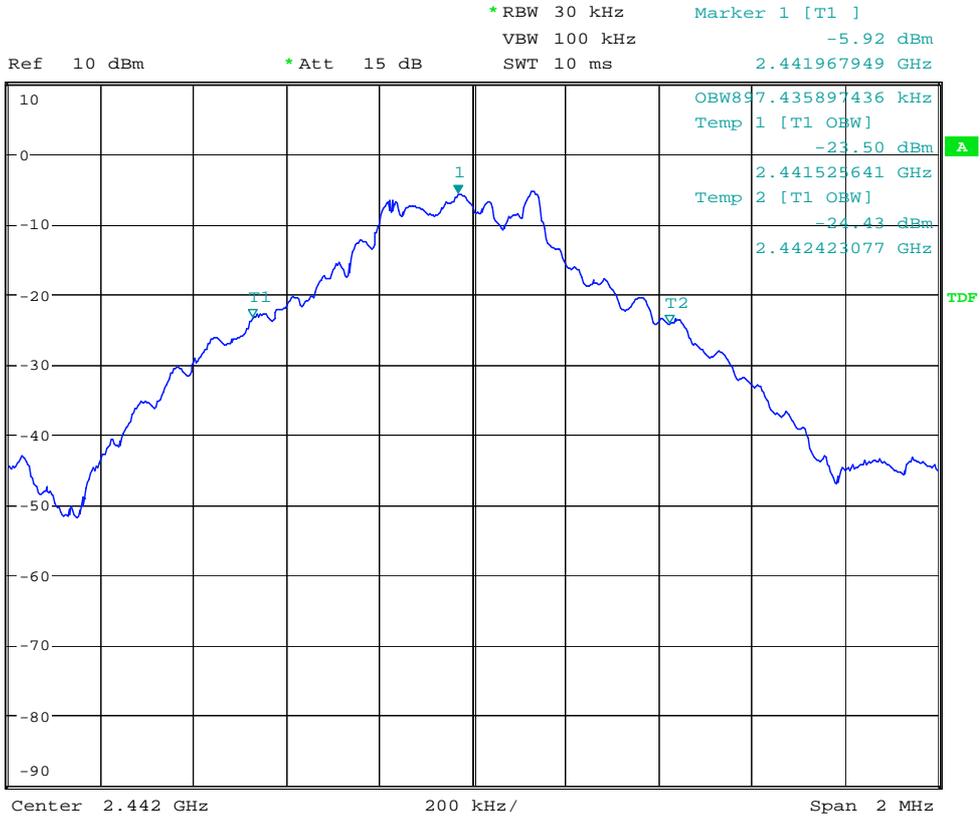


AB

Date: 7.MAY.2008 11:09:35



# Channel 40 (2442MHz)

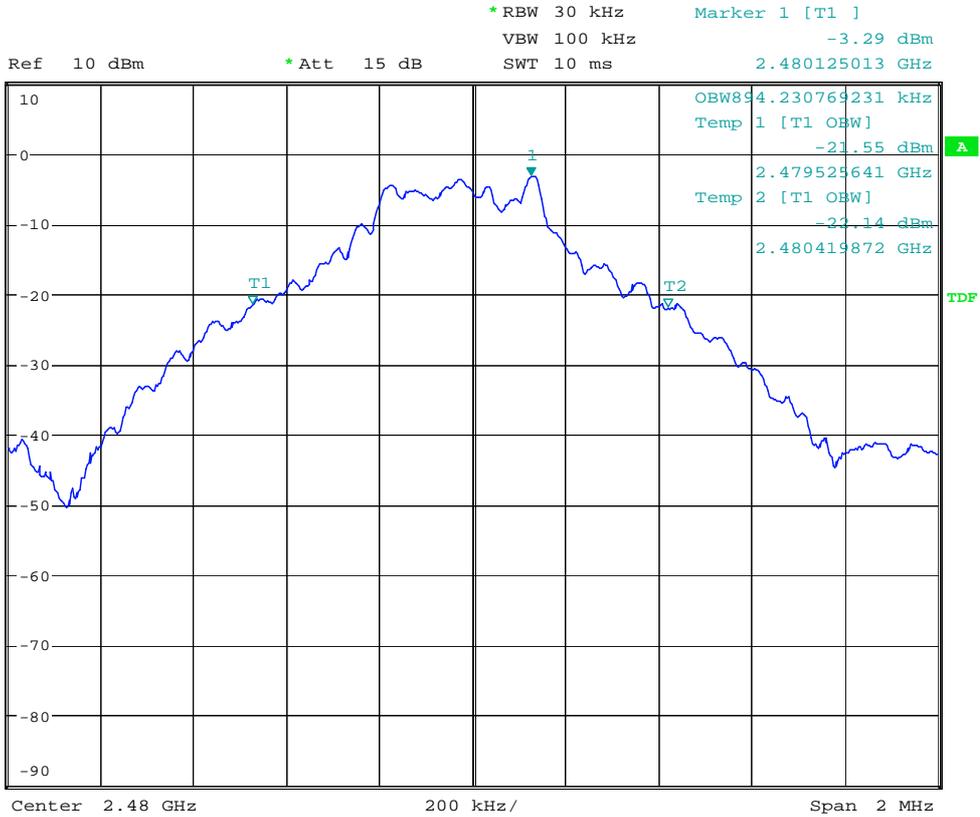


AB

Date: 7.MAY.2008 11:08:20



# Channel 78 (2480MHz)



AB

Date: 7.MAY.2008 11:07:03



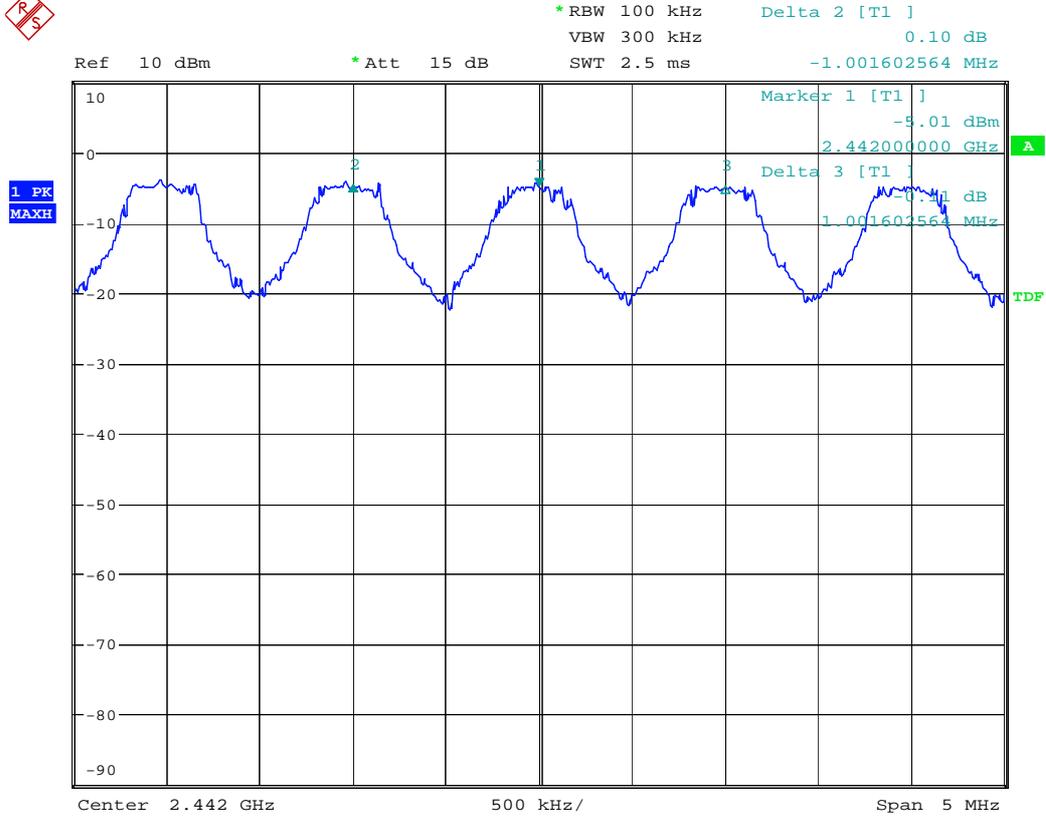
## **Appendix B**

# Carrier frequency separation measurement

According to FCC Part 15.247 (a) (1)



# Centred at Channel 40



AB

Date: 7.MAY.2008 11:48:07



## Appendix C

### Number of hopping channel

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



# Total hopping channels = 79

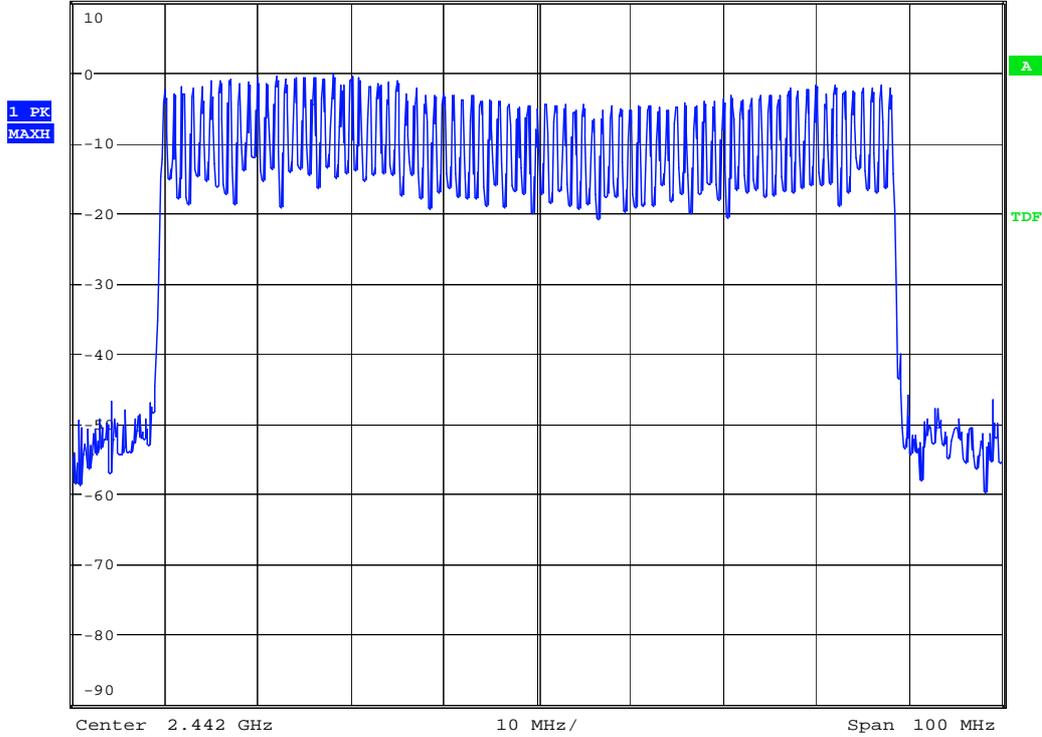


\*RBW 100 kHz  
VBW 300 kHz  
SWT 10 ms

Ref 10 dBm

\*Att 15 dB

SWT 10 ms



AB

Date: 7.MAY.2008 12:38:02



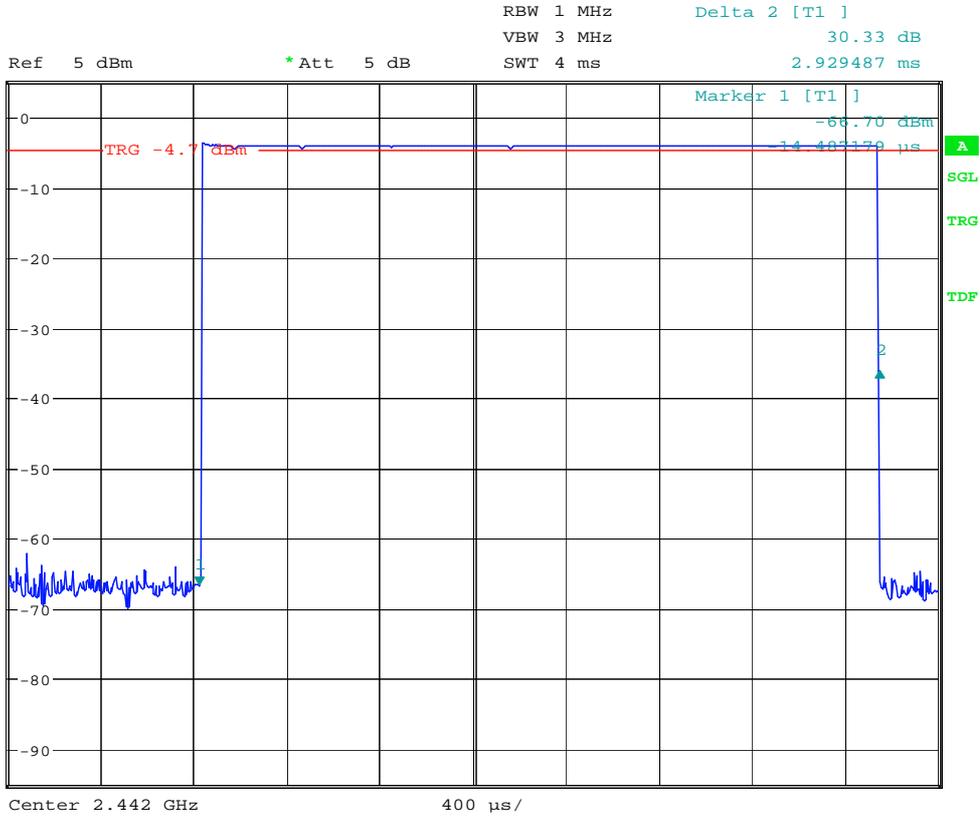
## Appendix D

### Time of occupancy

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



# A burst (One time slot)

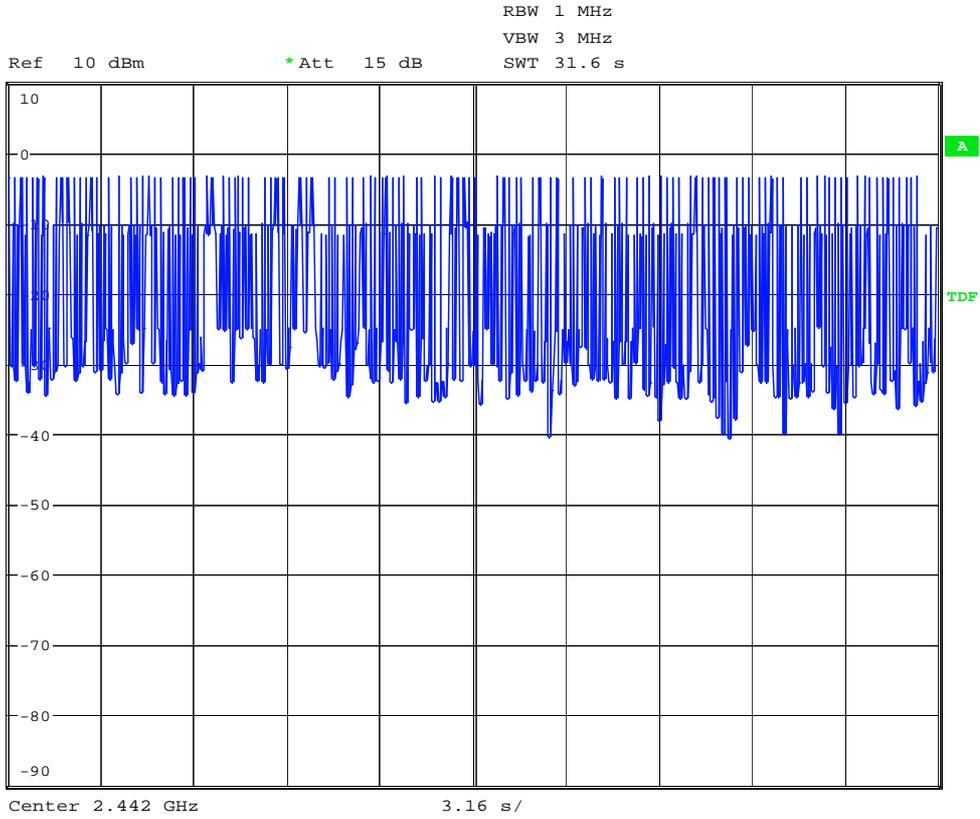


AB

Date: 7.MAY.2008 12:21:39



# A period (Less than 106.7 burst)



AB

Date: 7.MAY.2008 12:45:11



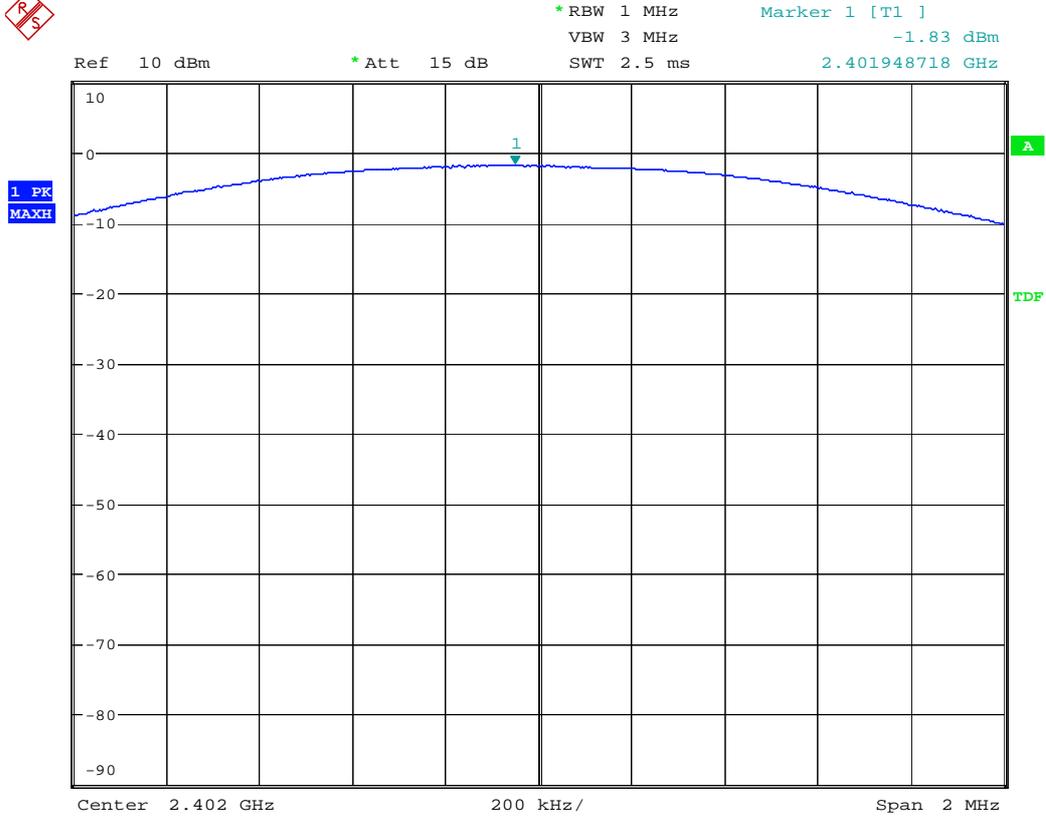
# Appendix E

## Peak output power

According to FCC Part 15.247 (b) (1)



# Channel 0 (2402MHz)



AB

Date: 7.MAY.2008 11:11:02







# Appendix F

## Band edge spurious emission

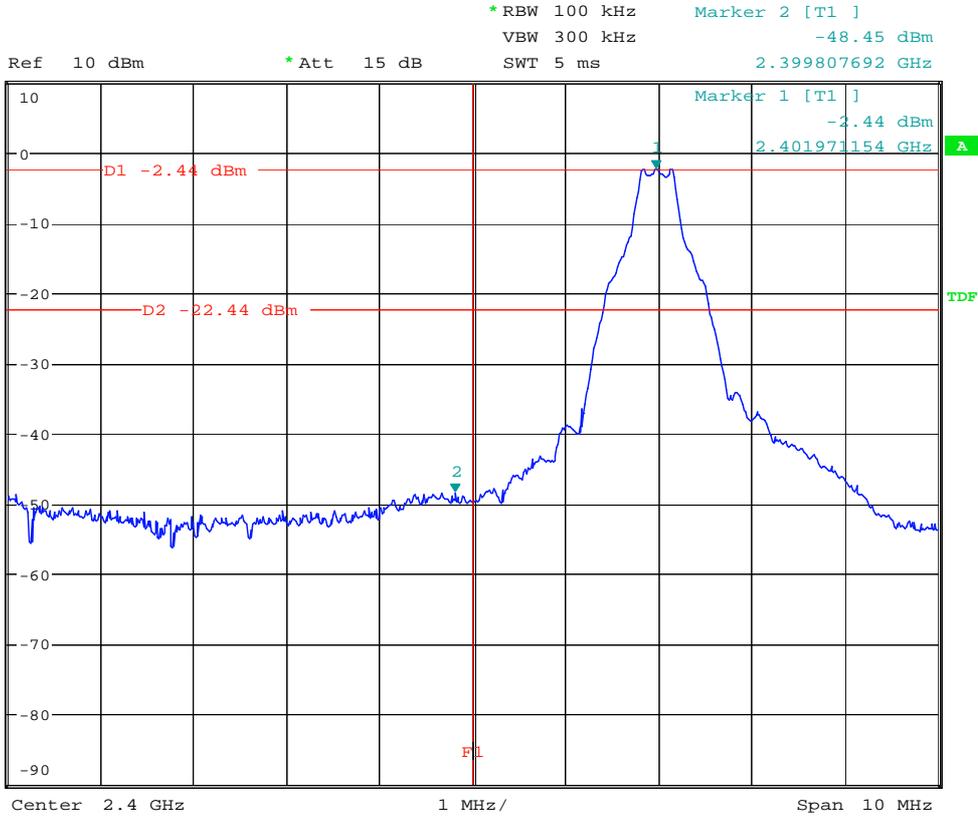
According to FCC Part 15.247 (d)



# Low edge (Channel 0, no hopping)



1 PK  
MAXH

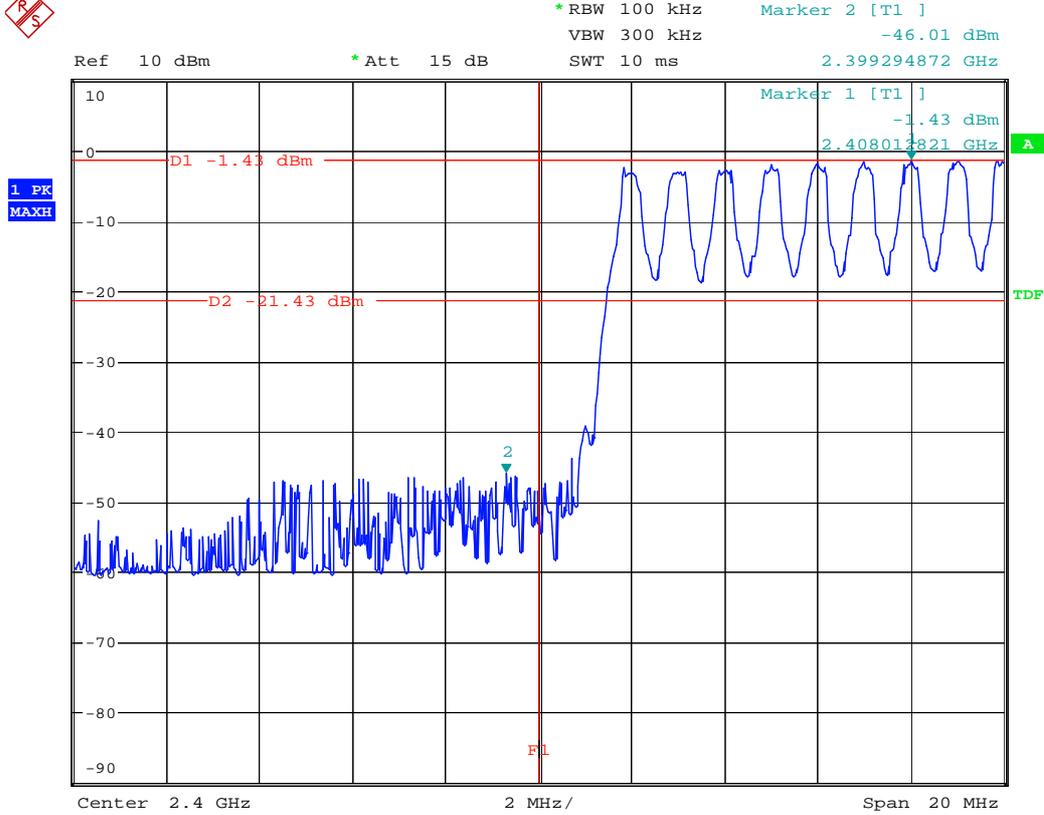


AB

Date: 7.MAY.2008 11:21:40



# Low edge (with hopping)

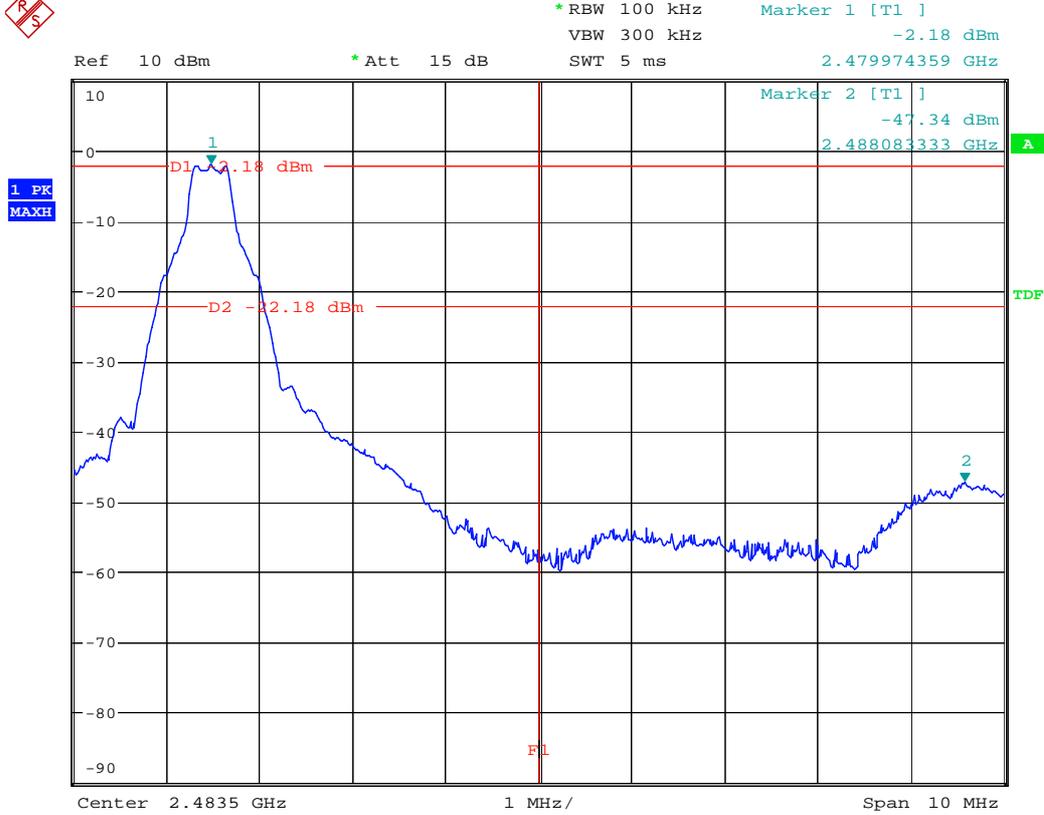


AB

Date: 7.MAY.2008 11:27:48



# High edge (Channel 78, no hopping)

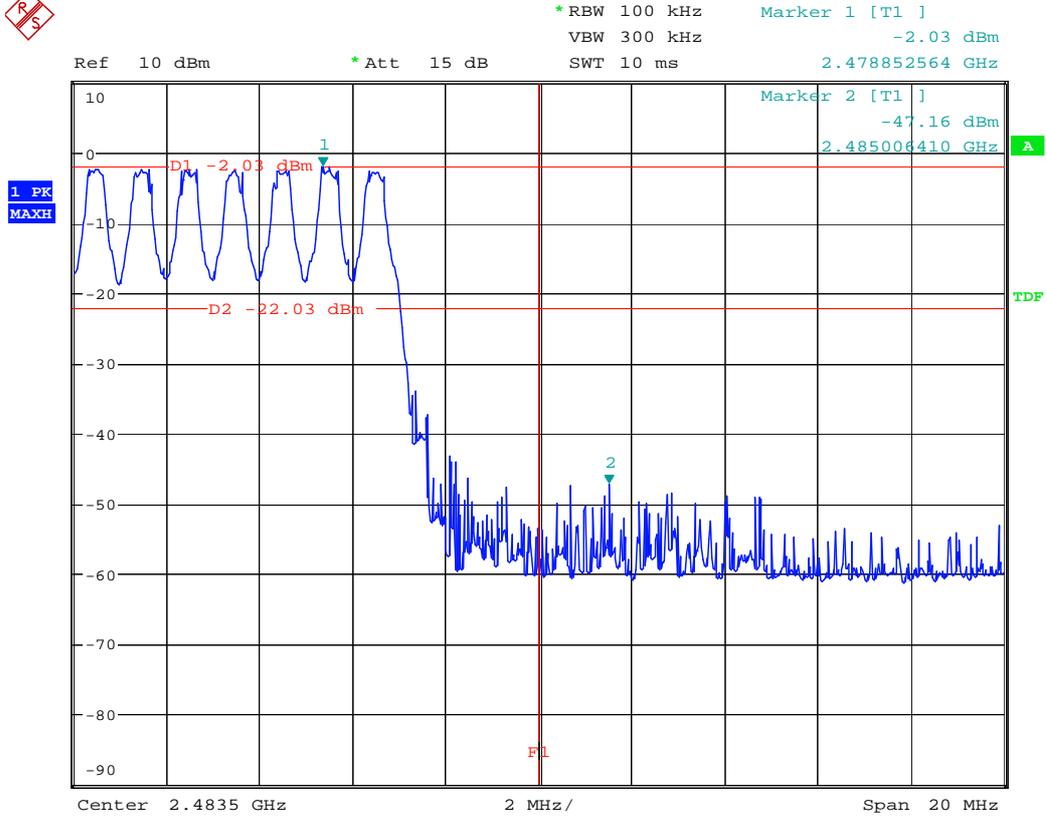


AB

Date: 7.MAY.2008 11:18:51



# High edge (with hopping)

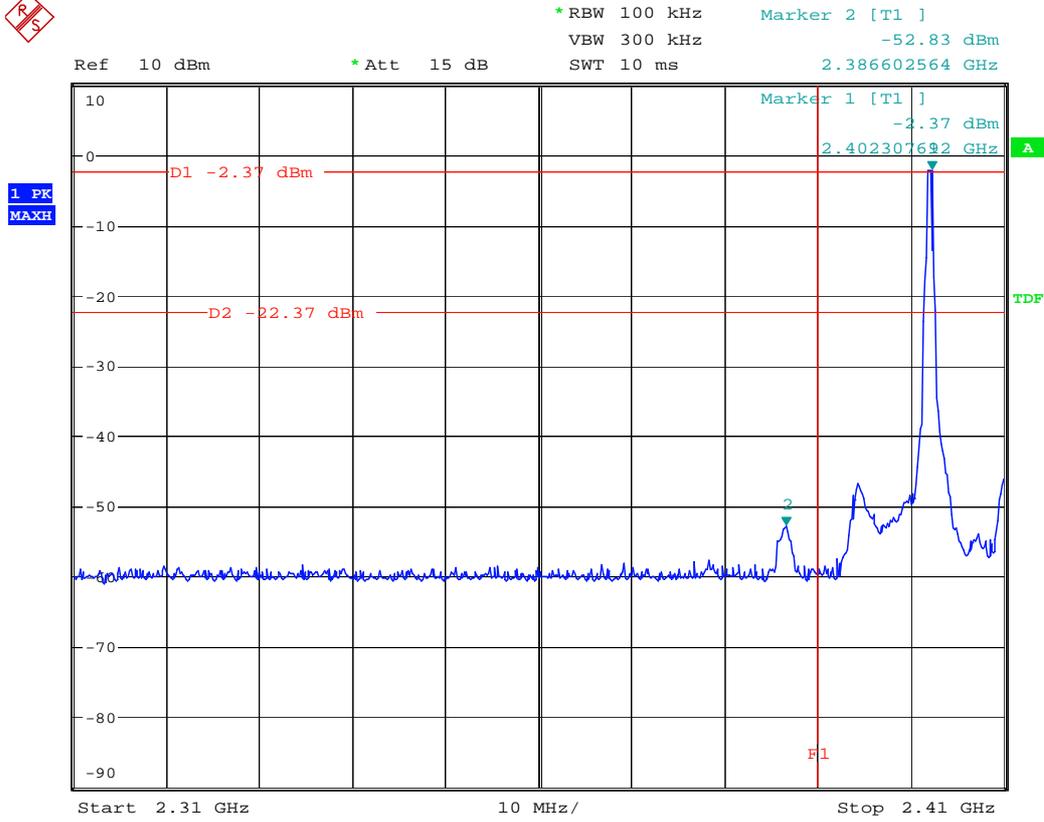


AB

Date: 7.MAY.2008 11:30:26



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



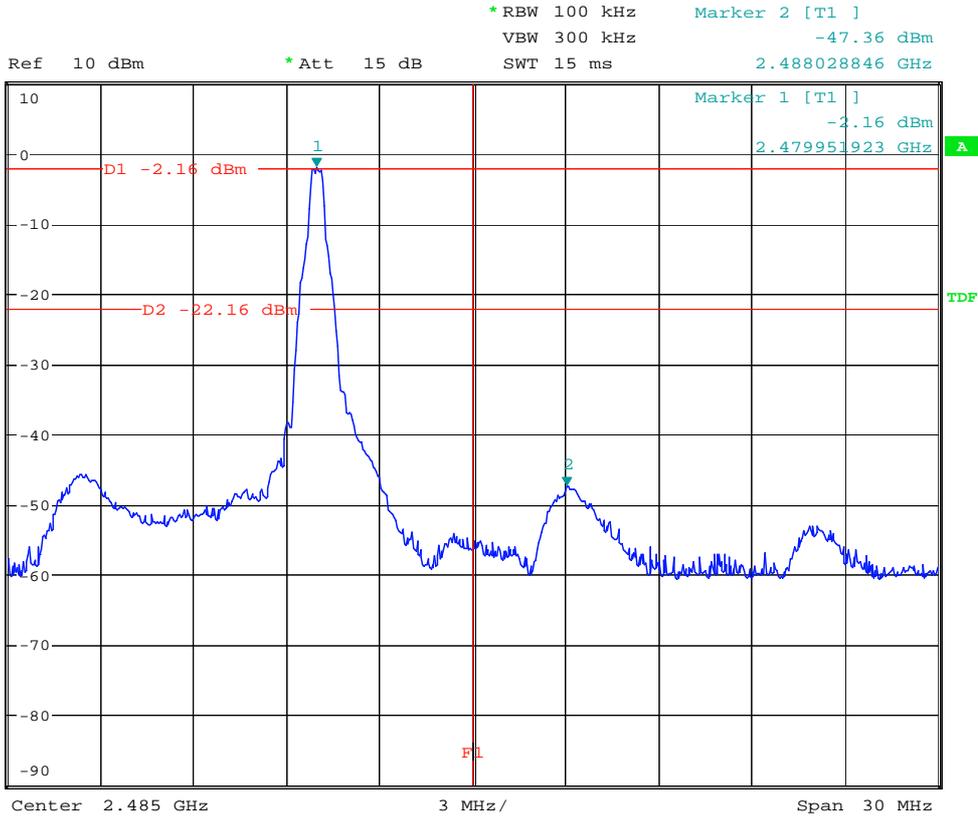
AB

Date: 7.MAY.2008 11:41:28





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



AB

Date: 7.MAY.2008 11:36:39





# Appendix G

## Conducted RF spurious

According to FCC Part 15.247 (d)



# Channel 0

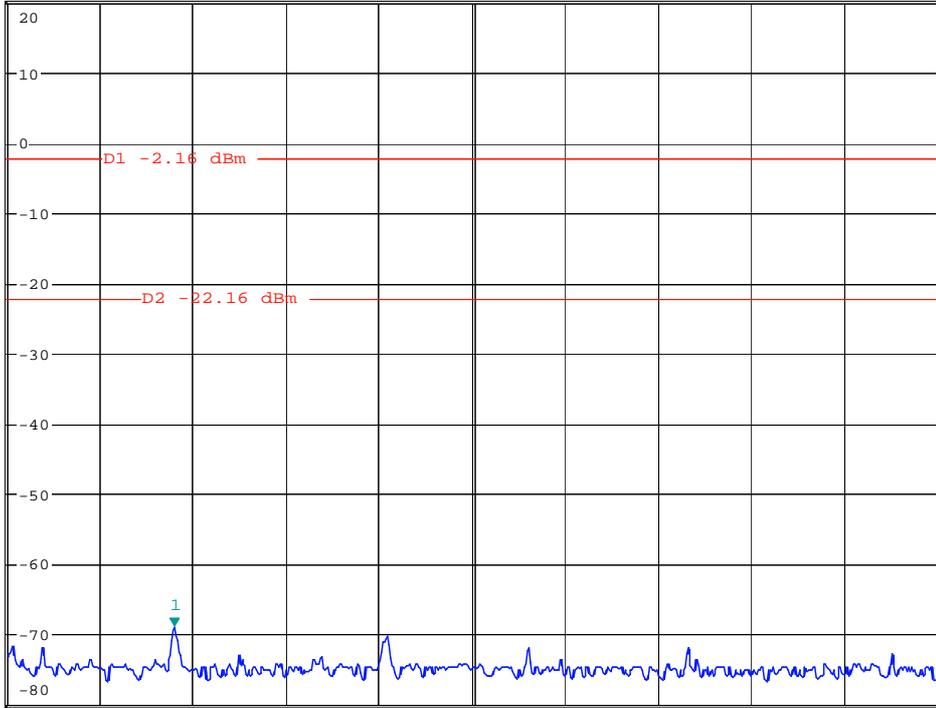


\*RBW 1 kHz  
VBW 3 kHz  
SWT 145 ms  
Marker 1 [T1 ]  
-69.03 dBm  
34.307692308 kHz

Ref 20 dBm \*Att 15 dB

1 PK

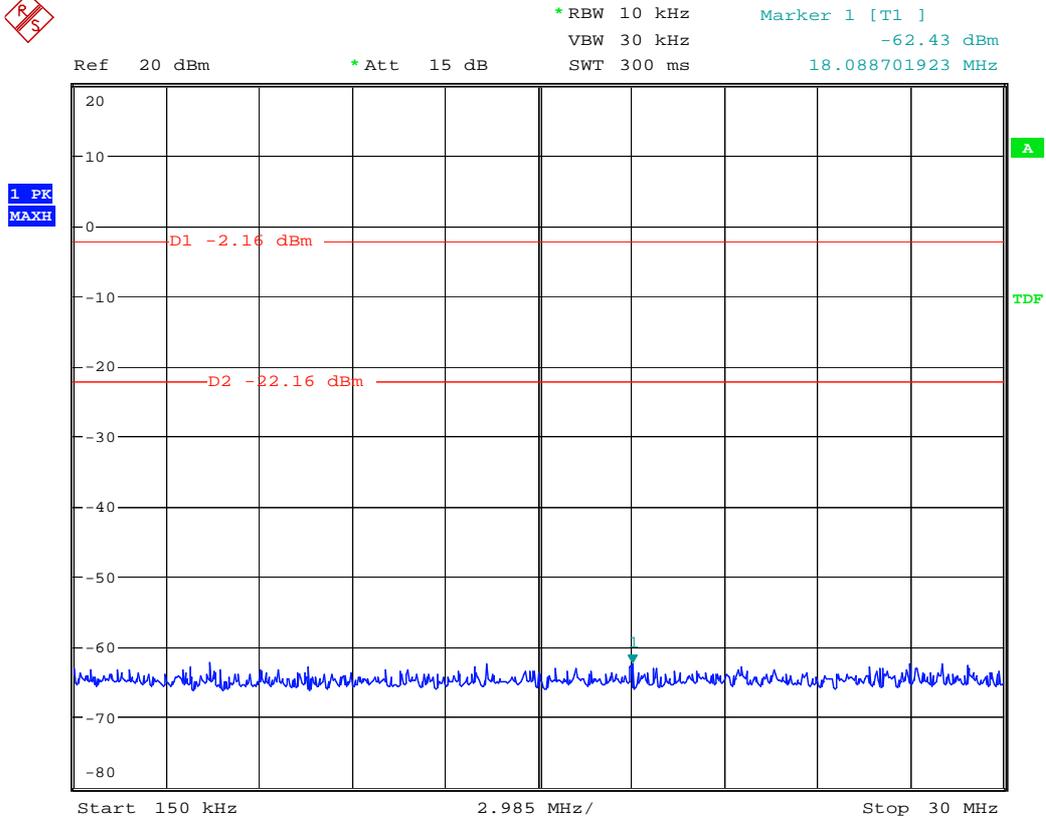
MAXH



Start 9 kHz 14.1 kHz/ Stop 150 kHz

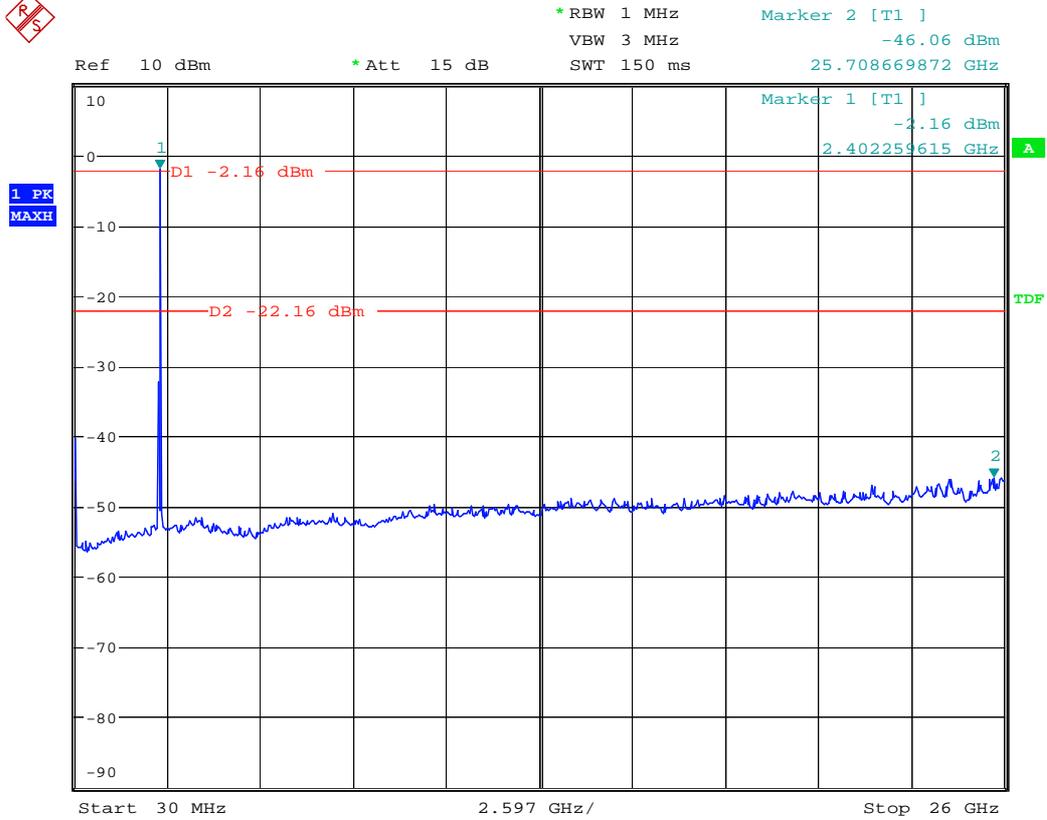
AB

Date: 7.MAY.2008 10:52:39



AB

Date: 7.MAY.2008 10:51:10



AB

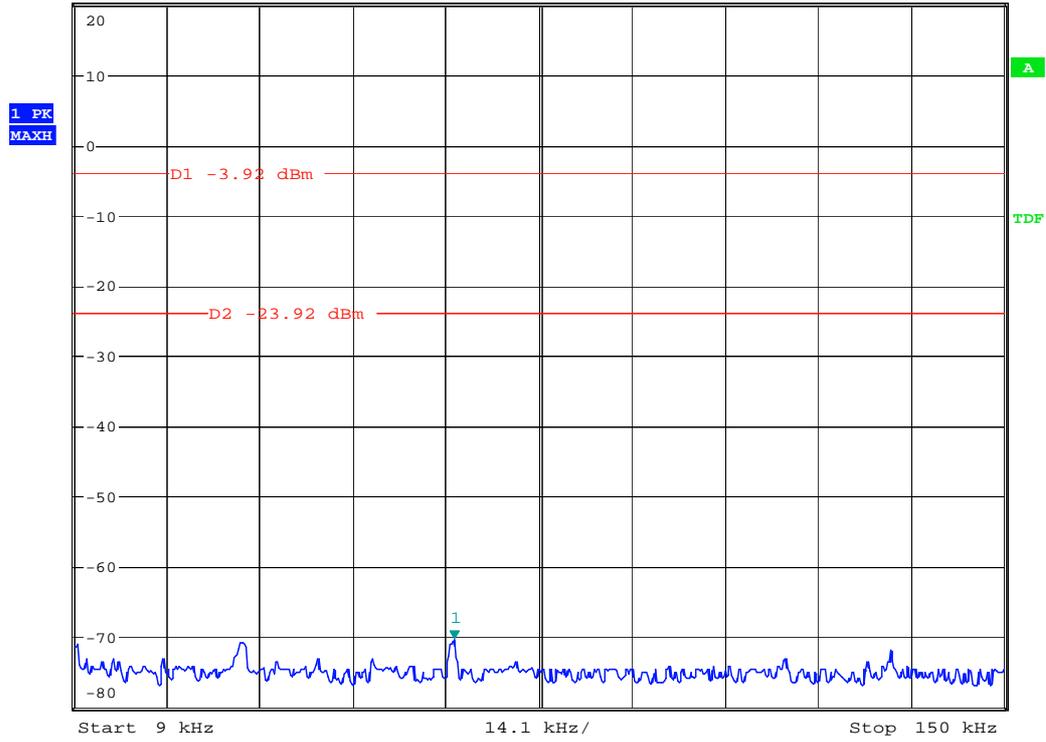
Date: 7.MAY.2008 10:46:24



# Channel 40

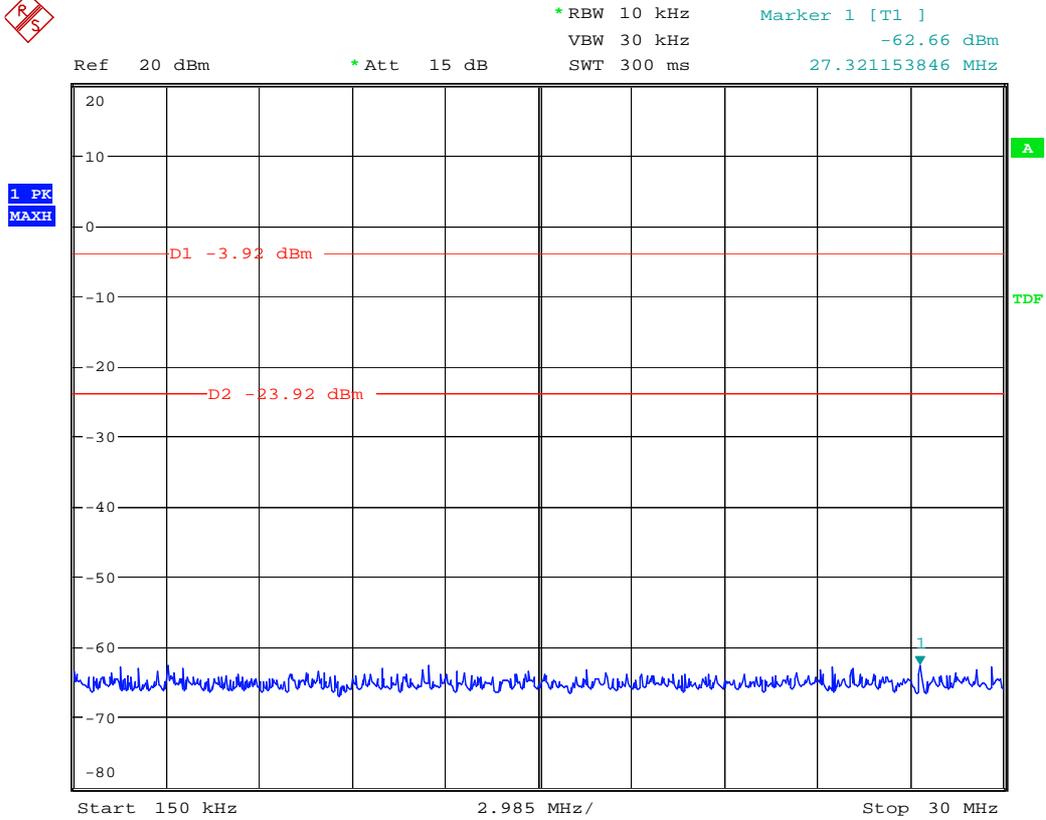


Ref 20 dBm      \*Att 15 dB      \*RBW 1 kHz      Marker 1 [T1 ]  
VBW 3 kHz      -70.51 dBm  
SWT 145 ms      66.620192308 kHz



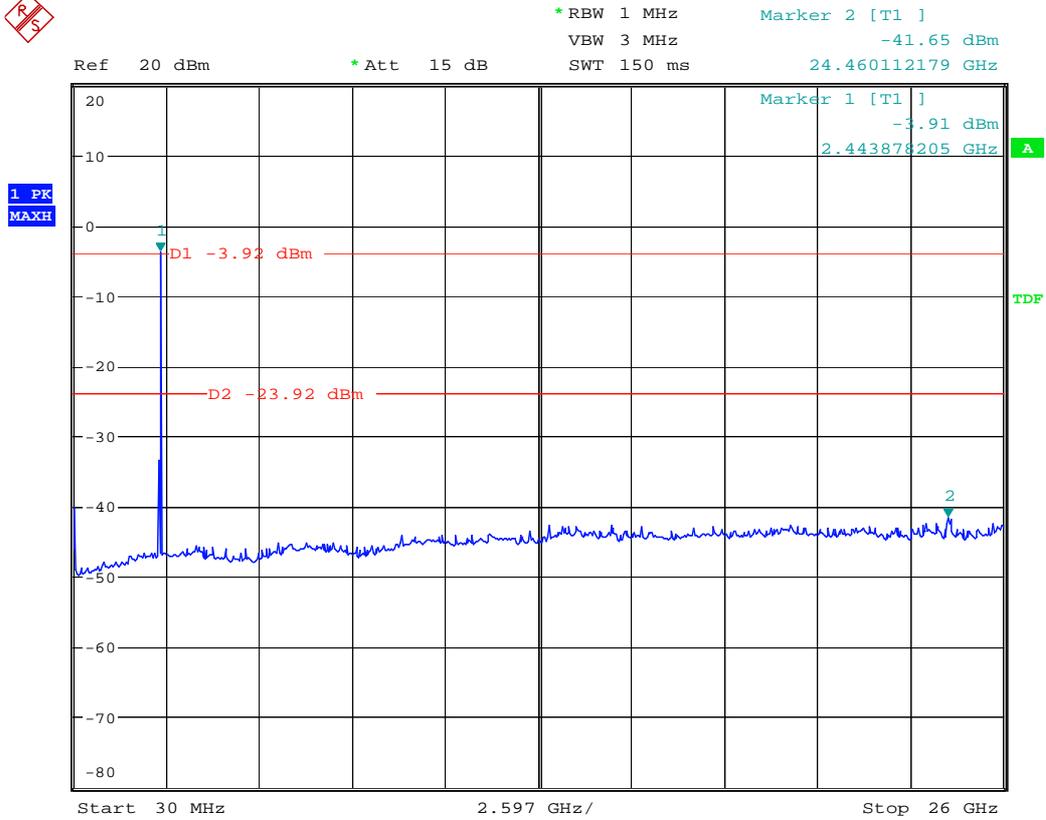
AB

Date: 7.MAY.2008 11:00:17



AB

Date: 7.MAY.2008 10:56:26



AB

Date: 7.MAY.2008 10:55:30



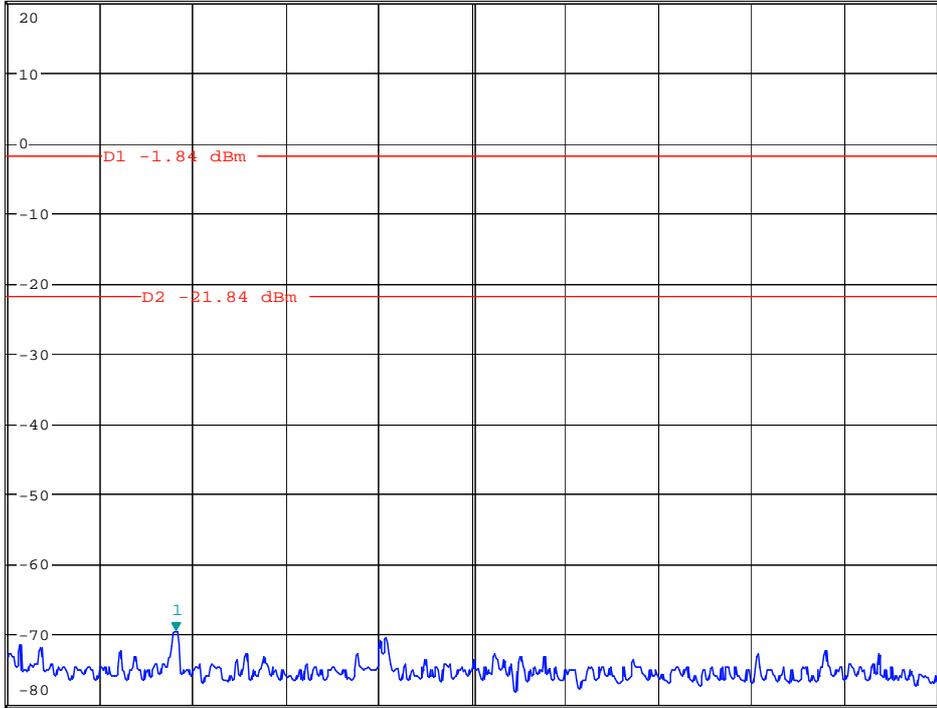
# Channel 78



\*RBW 1 kHz      Marker 1 [T1 ]  
VBW 3 kHz      -69.57 dBm  
SWT 145 ms      34.533653846 kHz

Ref 20 dBm      \*Att 15 dB

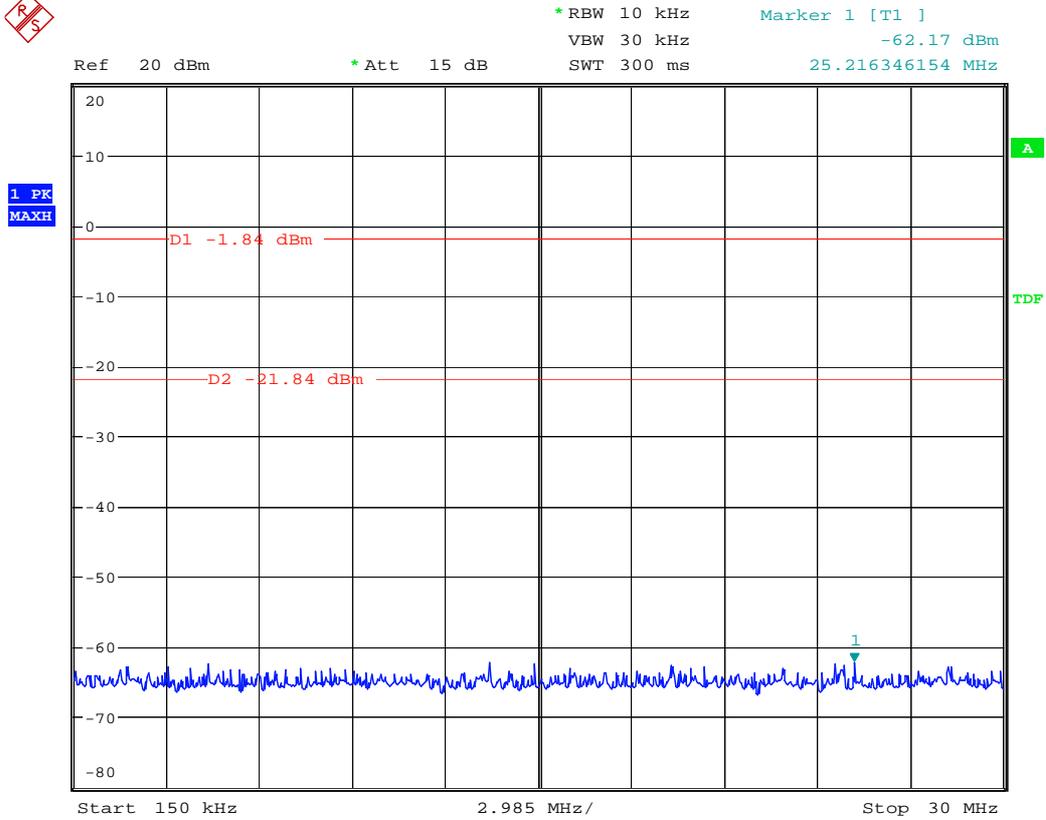
1 PK  
MAXH



Start 9 kHz      14.1 kHz/      Stop 150 kHz

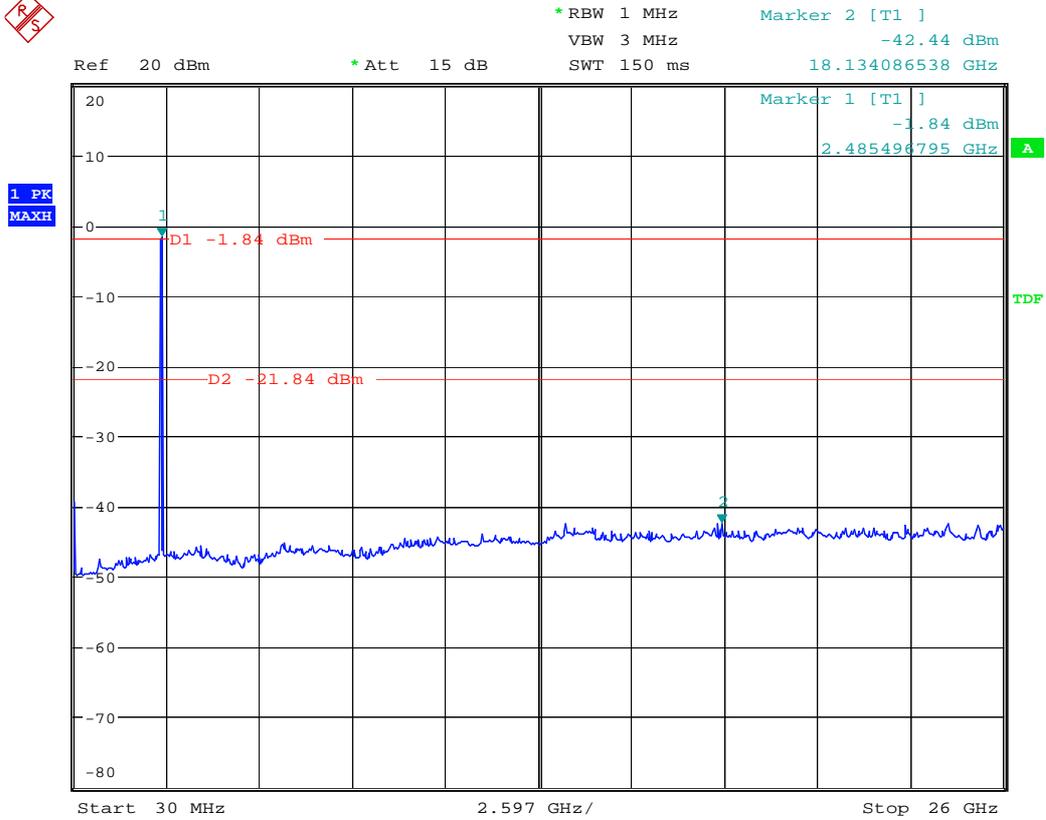
AB

Date: 7.MAY.2008 11:04:00



AB

Date: 7.MAY.2008 11:02:52



AB

Date: 7.MAY.2008 11:01:55



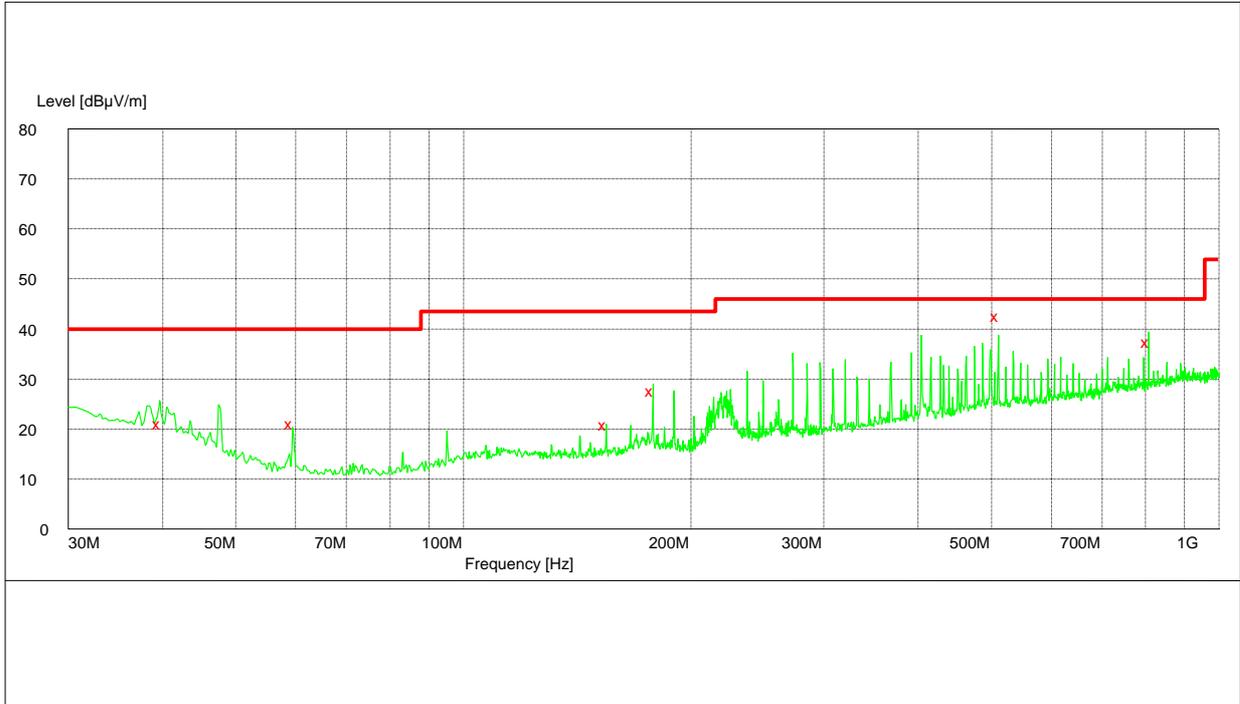
# **Appendix H**

## **Radiated spurious emission**

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



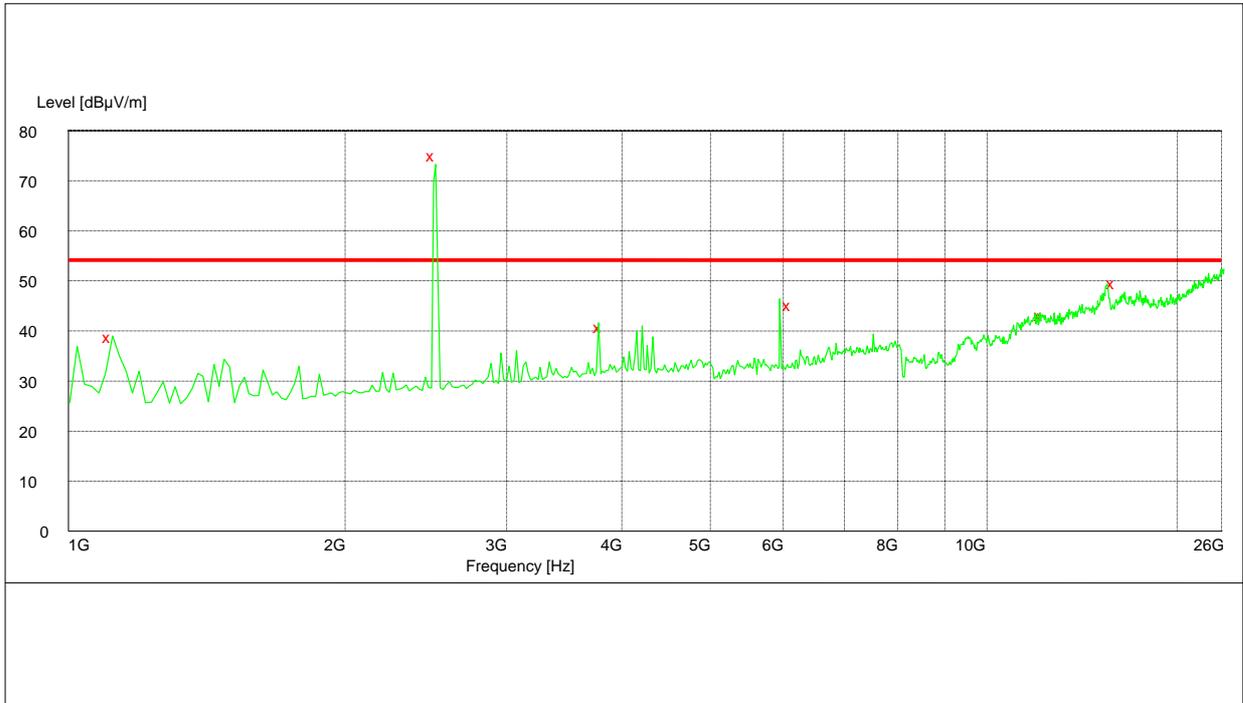
## Channel 0 30MHz to 1GHz



Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Plarization
39.600000	21.20	-11.8	40.0	18.8	259.0	221.00	HORIZONTAL
59.280000	21.20	-18.6	40.0	18.8	300.0	39.00	HORIZONTAL
154.140000	20.90	-14.6	43.5	22.6	177.0	63.00	HORIZONTAL
177.840000	27.80	-13.9	43.5	15.7	179.0	352.00	HORIZONTAL
509.940000	42.70	-5.5	46.0	3.3	185.0	300.00	HORIZONTAL
806.340000	37.50	-1.3	46.0	8.5	114.0	282.00	HORIZONTAL



## 1GHz to 26GHz

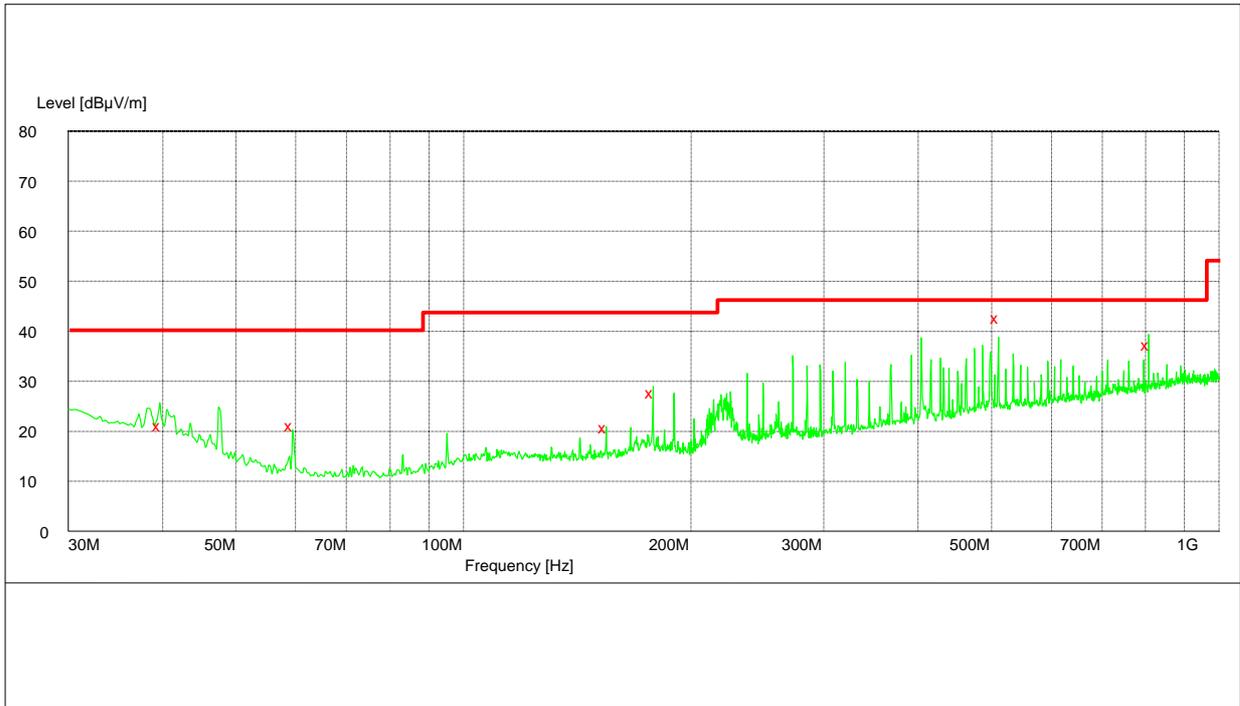


Note: The peak exceeds the limit line is carrier frequency.

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
1100.000000	39.60	-6.5	54.0	14.4	170.0	240.00	HORIZONTAL
2402.000000	72.5	2.0	54.0	-18.5	102.0	50.00	VERTICAL
3750.000000	41.20	7.0	54.0	12.8	100.0	0.00	VERTICAL
5925.500000	46.20	12.7	54.0	7.8	200.0	300.00	HORIZONTAL
12921.000000	43.00	31.6	54.0	11.0	100.0	150.00	HORIZONTAL
15430.000000	49.80	38.0	54.0	4.2	300.0	300.00	VERTICAL



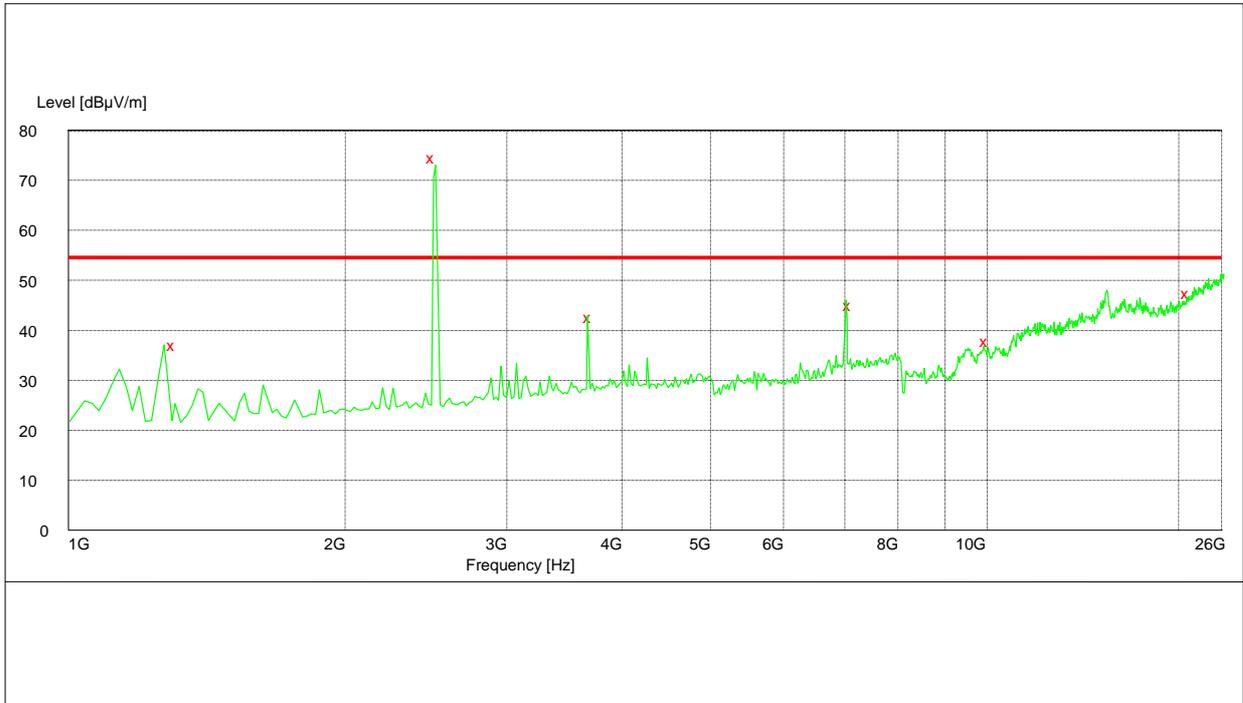
# Channel 40 30MHz to 1GHz



Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
39.600000	21.20	-11.8	40.0	18.8	259.0	221.00	HORIZONTAL
59.280000	21.20	-18.6	40.0	18.8	300.0	39.00	HORIZONTAL
154.140000	20.90	-14.6	43.5	22.6	177.0	63.00	HORIZONTAL
177.840000	27.80	-13.9	43.5	15.7	179.0	352.00	HORIZONTAL
509.940000	42.70	-5.5	46.0	3.3	185.0	300.00	HORIZONTAL
806.340000	37.50	-1.3	46.0	8.5	114.0	282.00	HORIZONTAL



## 1GHz to 26GHz

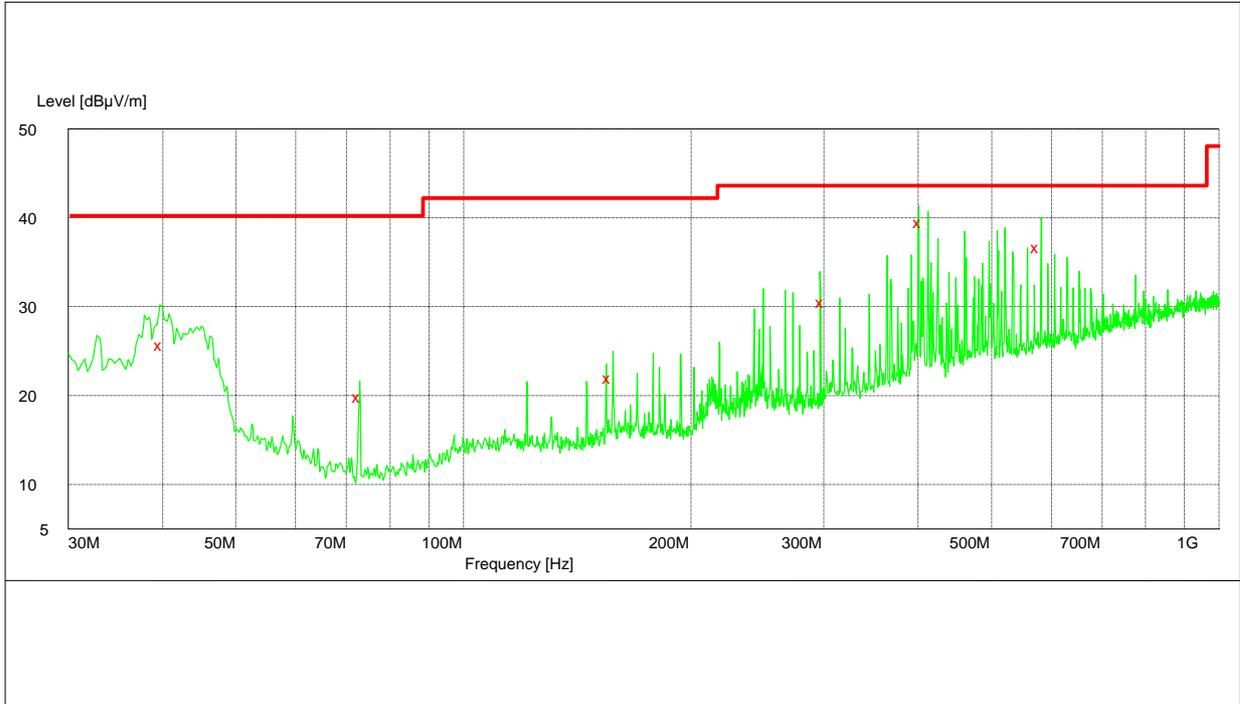


Note: The peak exceeds the limit line is carrier frequency.

Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Height cm	Azimuth deg	Polarization
1380.000000	38.10	-5.0	54.0	15.9	200.0	300.00	HORIZONTAL
2442.000000	72.90	2.1	54.0	-18.9	100.0	276.00	VERTICAL
3750.000000	41.90	7.0	54.0	12.1	100.0	4.00	VERTICAL
6990.500000	46.10	18.6	54.0	7.9	200.0	26.00	VERTICAL
9980.000000	39.10	25.1	54.0	14.9	200.0	286.00	HORIZONTAL
24998.000000	48.50	52.1	54.0	5.5	100.0	115.00	VERTICAL



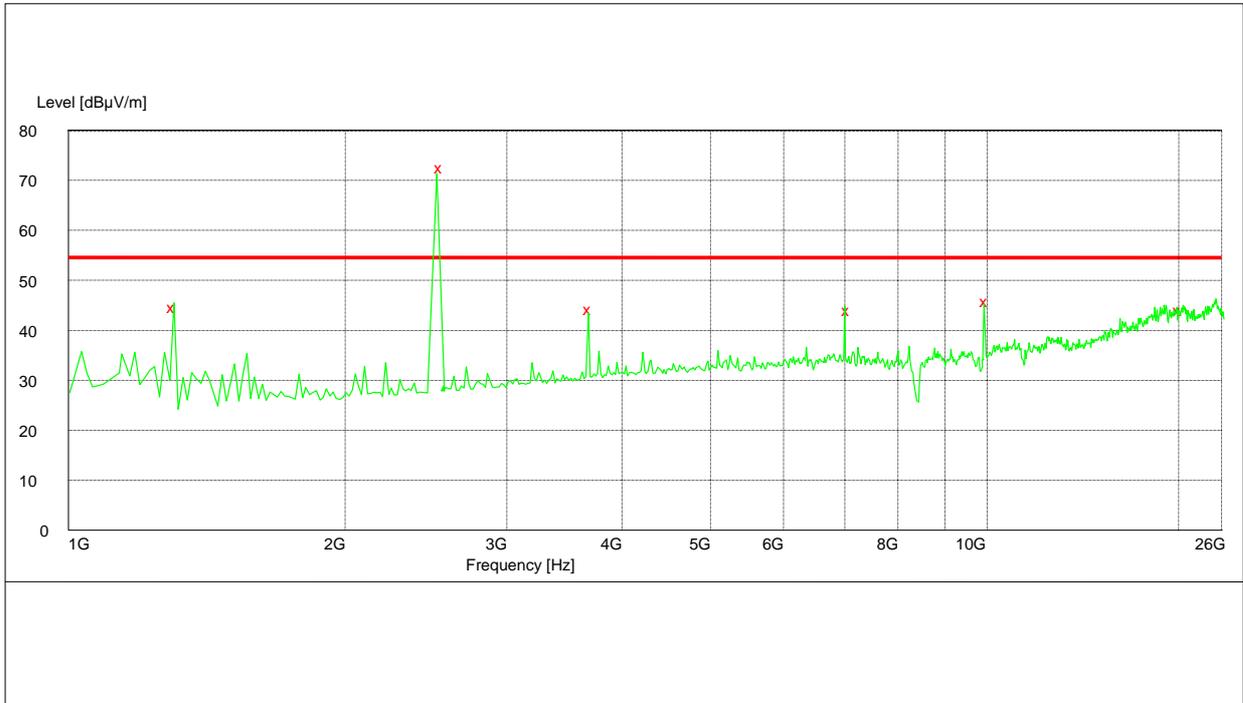
## Channel 78 30MHz to 1GHz



Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
39.840000	25.80	-11.9	40.0	14.2	258.0	0.00	HORIZONTAL
72.900000	19.90	-11.9	40.0	20.1	258.0	0.00	HORIZONTAL
156.420000	22.10	-14.6	43.5	21.4	270.0	14.00	HORIZONTAL
299.520000	30.60	-10.0	46.0	15.4	100.0	360.00	HORIZONTAL
403.200000	39.60	-7.2	46.0	6.4	100.0	173.00	HORIZONTAL
575.940000	36.80	-4.5	46.0	9.2	300.0	0.00	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
1380.000000	45.10	-5.0	54.0	8.9	200.0	300.00	HORIZONTAL
2480.000000	71.90	2.1	54.0	-17.9	100.0	260.00	VERTICAL
3750.000000	44.90	7.0	54.0	9.1	100.0	16.00	VERTICAL
6990.500000	43.10	18.6	54.0	10.9	100.0	50.00	VERTICAL
9980.000000	48.20	25.1	54.0	5.8	200.0	270.00	HORIZONTAL
24998.000000	44.50	52.1	54.0	9.5	240.0	110.00	VERTICAL



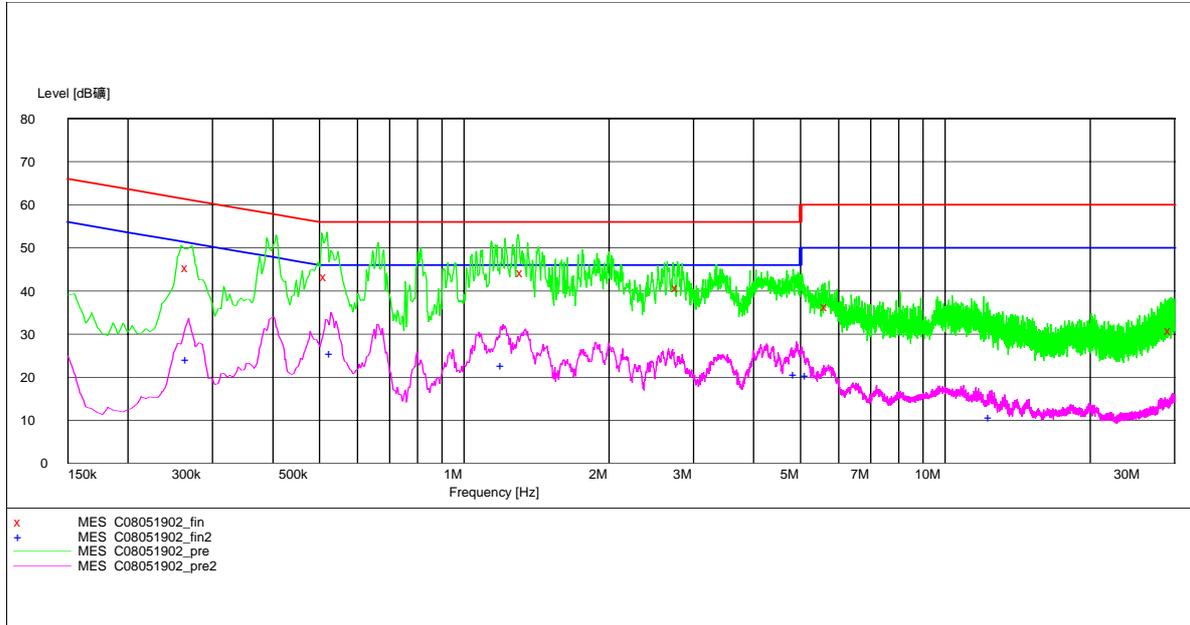
# Appendix I

## 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
0.267000	45.50	10.0	61	15.5	QP	N	GND
0.519000	43.40	10.0	56	12.6	QP	L3	GND
1.329000	44.20	10.1	56	11.8	QP	L3	GND
2.791500	40.70	10.1	56	15.3	QP	L3	GND
5.712000	36.40	10.1	60	23.6	QP	N	GND
29.553000	30.80	10.5	60	29.2	QP	L3	GND

### MEASUREMENT RESULT:

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.267000	24.10	10.0	51	26.9	AV	L3	GND
0.532500	25.50	10.0	46	20.5	AV	L3	GND
1.207500	22.80	10.0	46	23.2	AV	L3	GND
4.911000	20.60	10.1	46	25.4	AV	N	GND
5.190000	20.40	10.1	50	29.6	AV	N	GND
12.498000	10.70	10.2	50	39.3	AV	N	GND

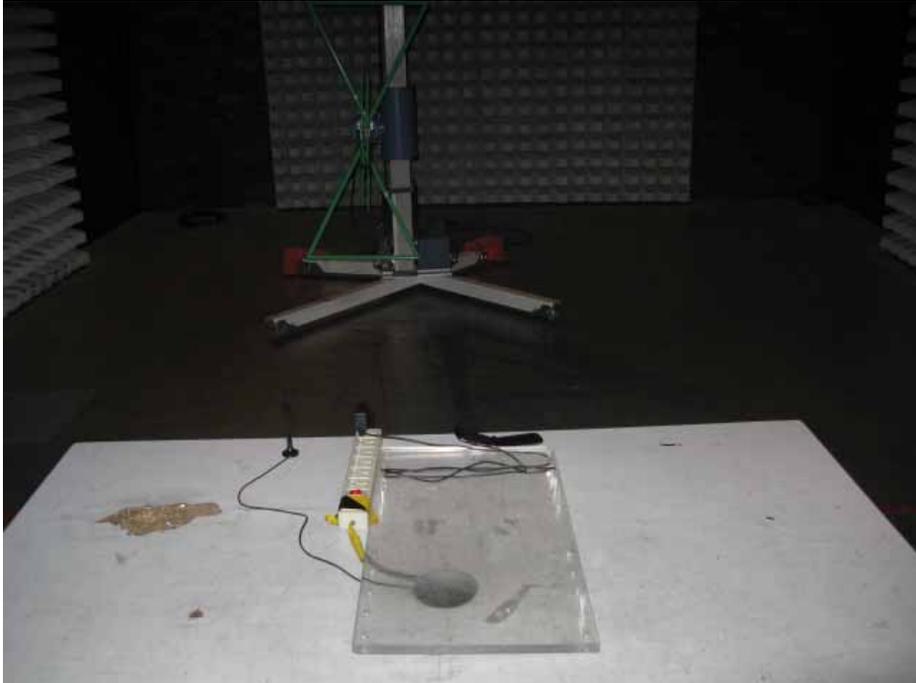


# Appendix J

## Photos of Test Setup



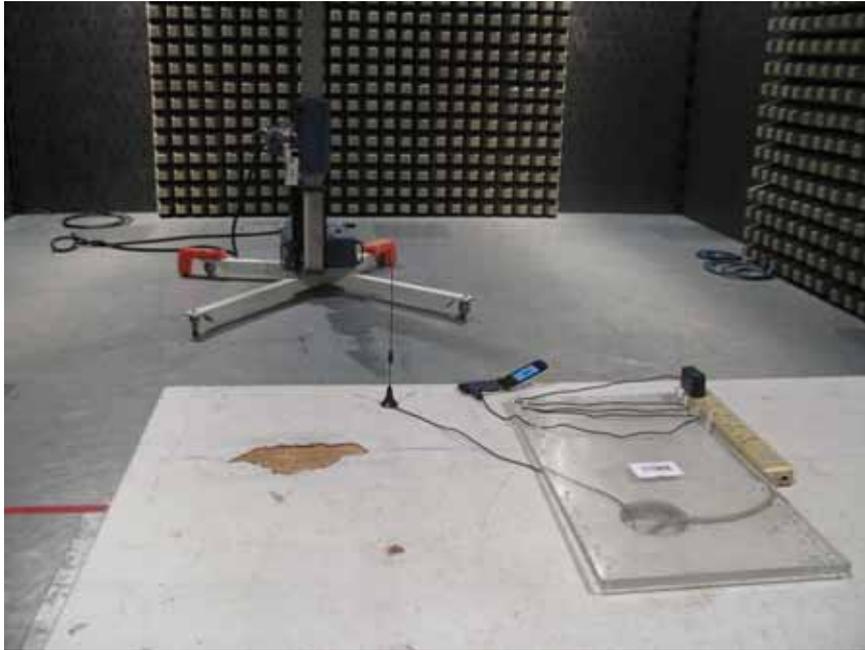
# 1 Radiated Spurious Emissions



Radiated Spurious Emission (below 2GHz)



Radiated Spurious Emission (2GHz to18GHz)



Radiated Spurious Emission (above 18GHz)

## 2 Conducted Emissions



Conducted Emissions for AC Ports