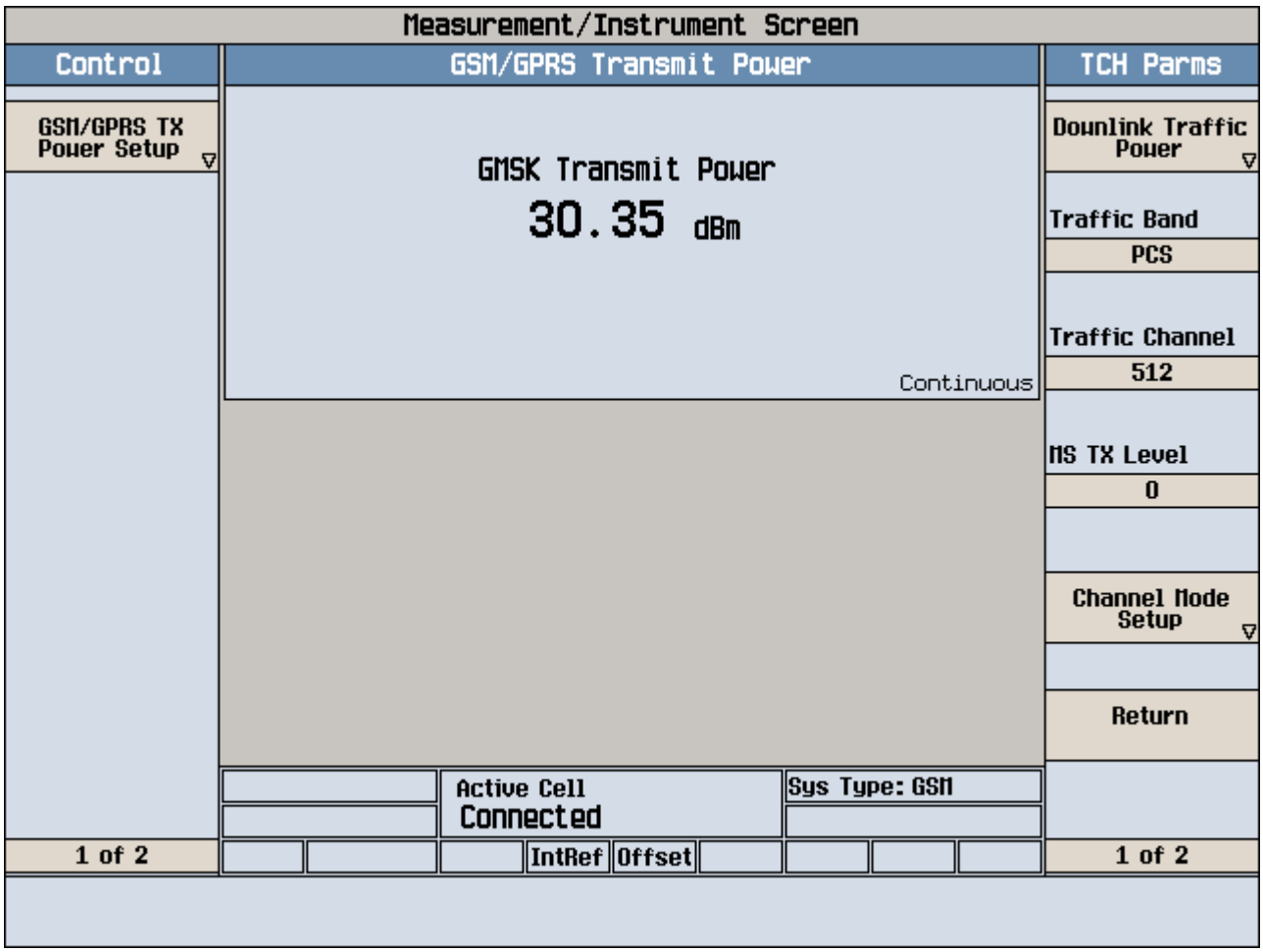
Appendix A

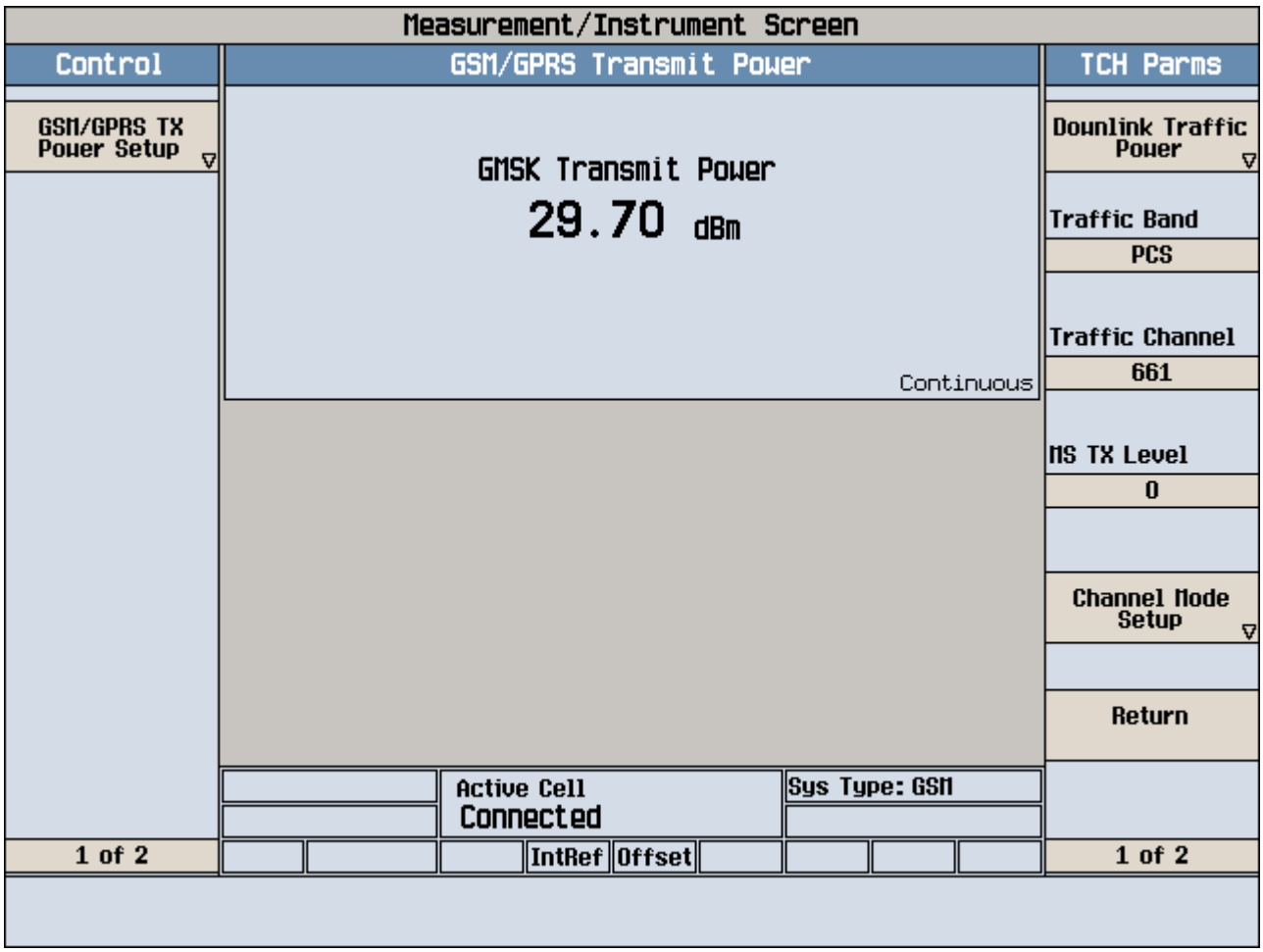
Effective Radiated Power of Transmitter

According to FCC Part 2.1046 & 24.232

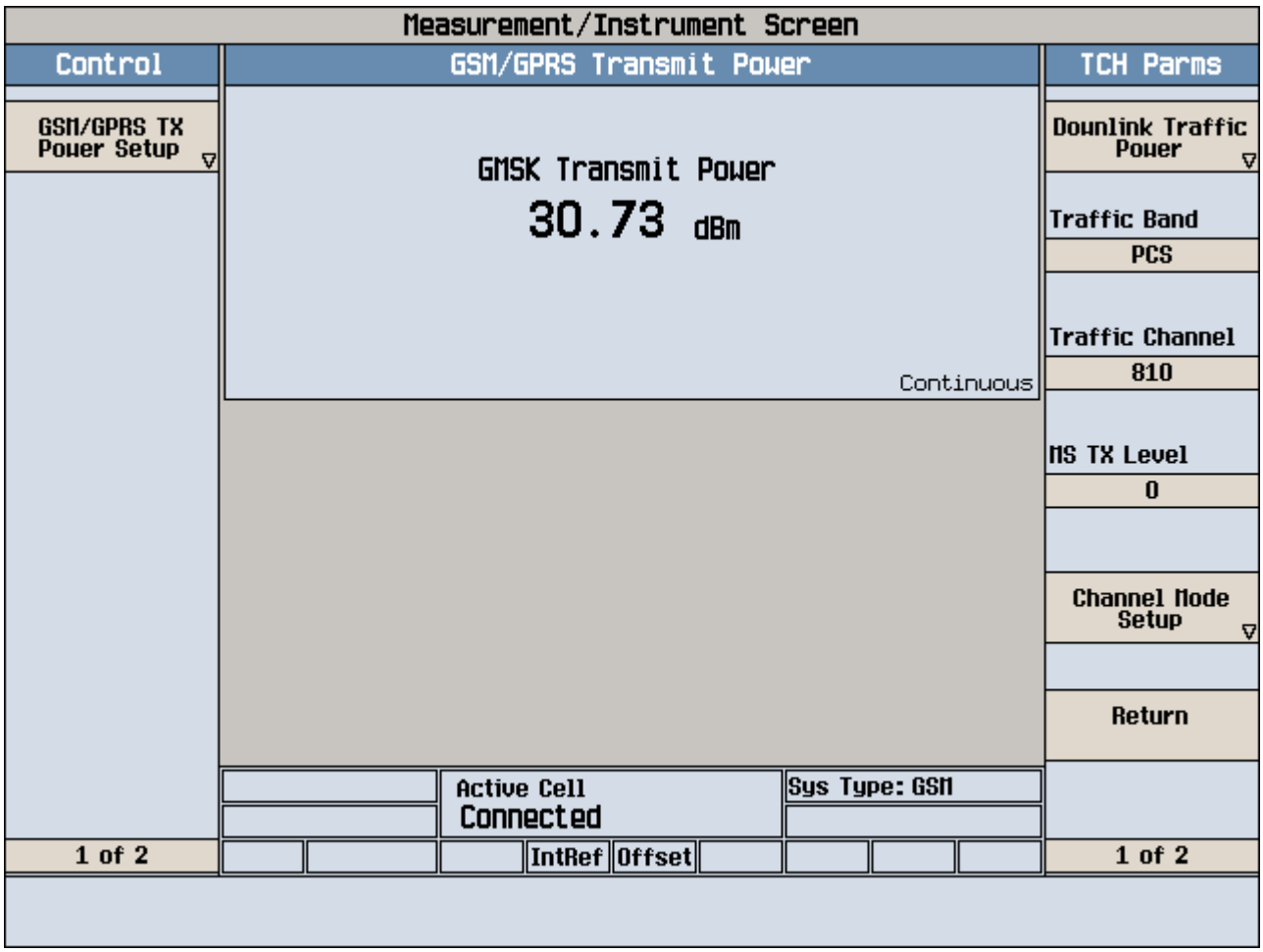
Channel 512


Measurement/Instrument Screen
Control
GSM/GPRS Transmit Power
TCH Parms
GSM/GPRS TX Power Setup
GMSK Transmit Power
30.35 dBm
Continuous
Dounlink Traffic Power
Traffic Band
PCS
Traffic Channel
512
MS TX Level
0
Channel Mode Setup
Return
Active Cell
Connected
Sys Type: GSM
1 of 2
IntRef
Offset
1 of 2

Channel 661


Measurement/Instrument Screen
Control
GSM/GPRS Transmit Power
TCH Parms
GSM/GPRS TX Power Setup
GMSK Transmit Power
29.70 dBm
Continuous
Dounlink Traffic Power
Traffic Band
PCS
Traffic Channel
661
MS TX Level
0
Channel Mode Setup
Return
Active Cell
Connected
Sys Type: GSM
1 of 2
IntRef
Offset
1 of 2

Channel 810

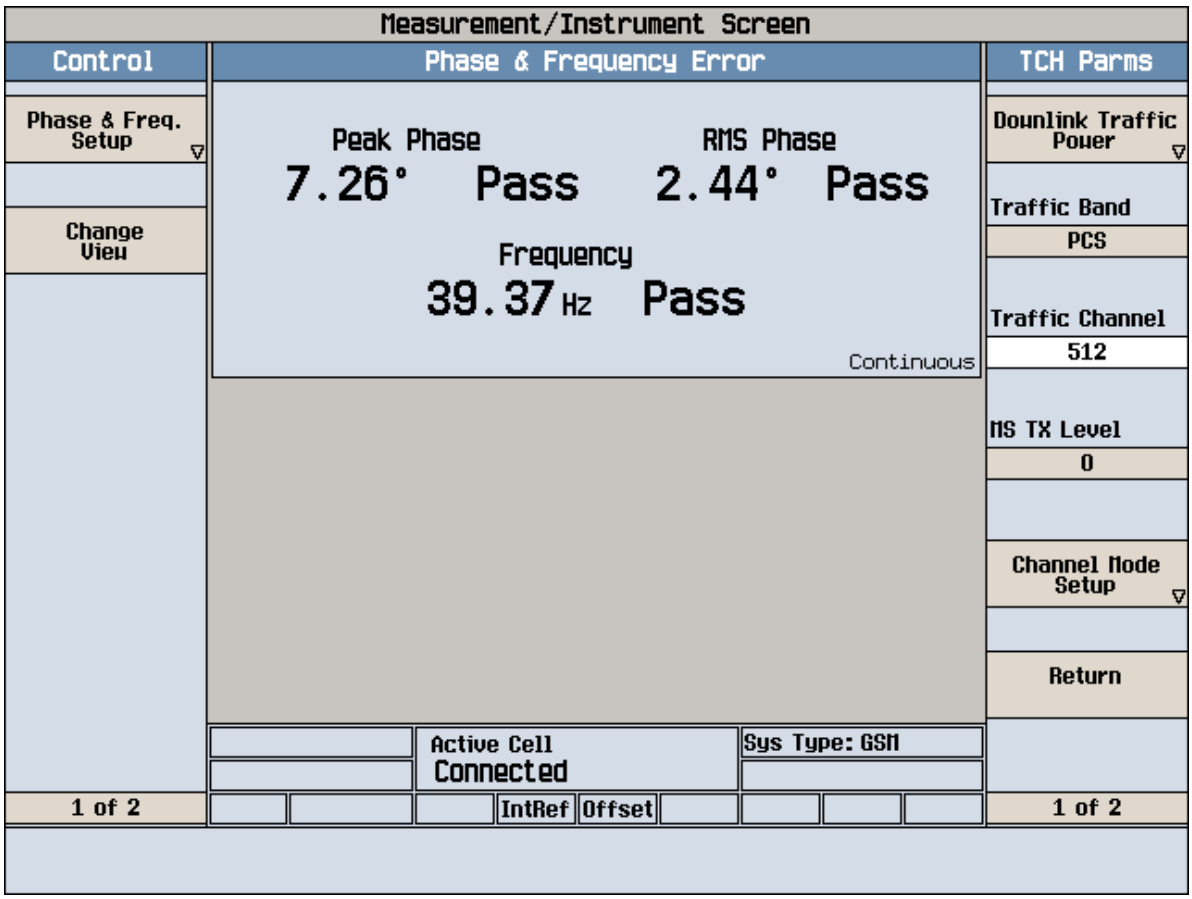

Measurement/Instrument Screen
Control
GSM/GPRS Transmit Power
TCH Parms
GSM/GPRS TX Power Setup
GMSK Transmit Power
30.73 dBm
Continuous
Dounlink Traffic Power
Traffic Band
PCS
Traffic Channel
810
MS TX Level
0
Channel Mode Setup
Return
Active Cell
Connected
Sys Type: GSM
IntRef
Offset
1 of 2
1 of 2

Appendix B

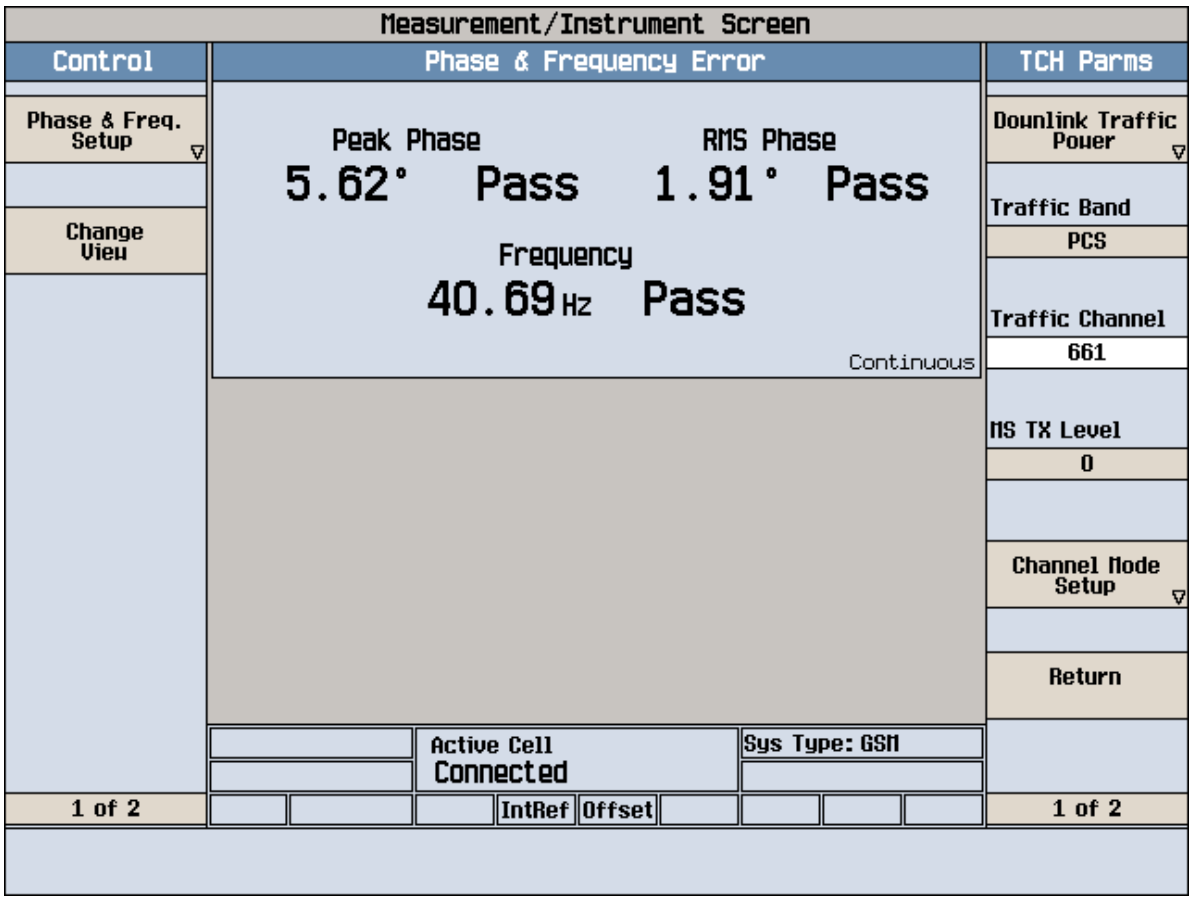
Modulation Characteristics

According to FCC Part 2.1047& Part 24 Subpart E

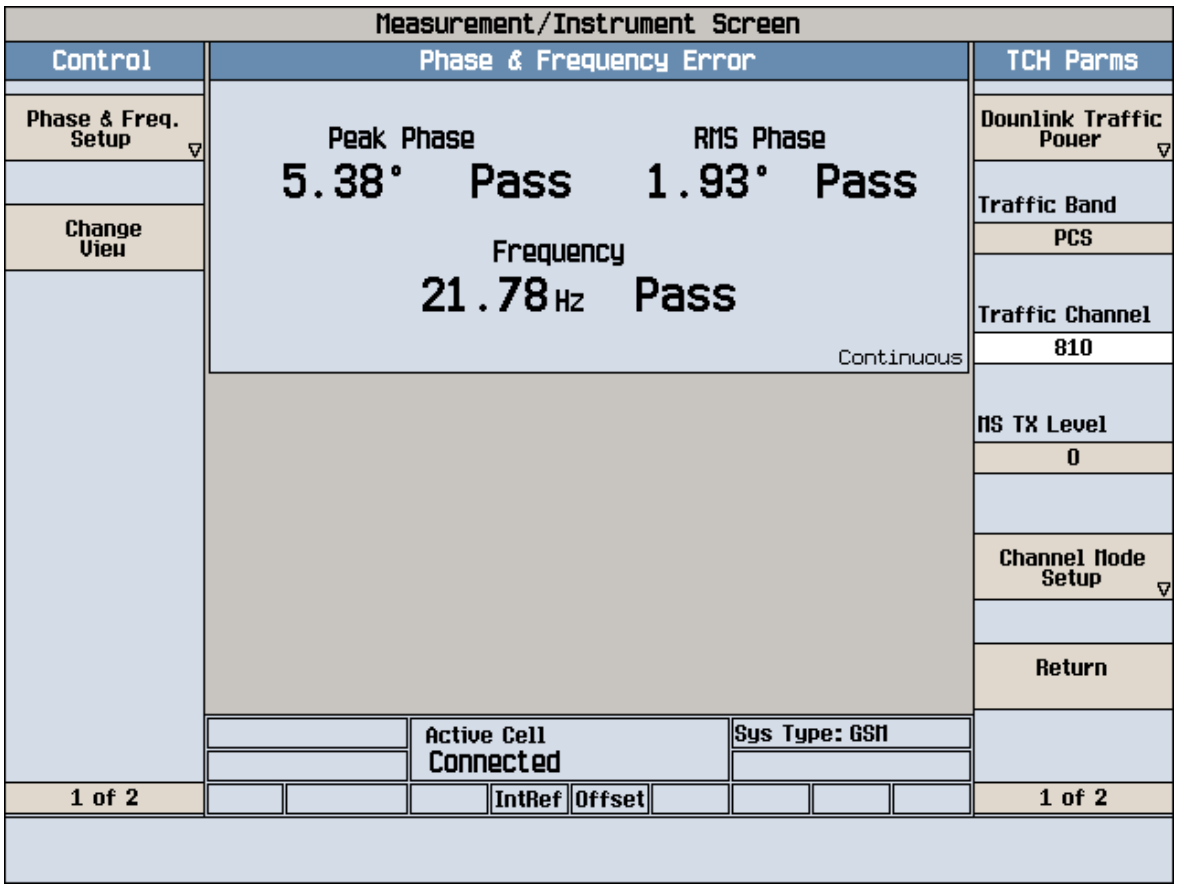
Channel 512


Measurement/Instrument Screen
Control
Phase & Freq. Setup
Change View
1 of 2
Phase & Frequency Error
Peak Phase
7.26° Pass
RMS Phase
2.44° Pass
Frequency
39.37 Hz Pass
Continuous
Active Cell
Connected
Sys Type: GSM
IntRef
Offset
TCH Parms
Dounlink Traffic Power
Traffic Band
PCS
Traffic Channel
512
MS TX Level
0
Channel Mode Setup
Return
1 of 2

Channel 661


Measurement/Instrument Screen
Control
Phase & Freq. Setup
Change View
1 of 2
Phase & Frequency Error
Peak Phase
5.62° Pass
RMS Phase
1.91° Pass
Frequency
40.69 Hz Pass
Continuous
Active Cell
Connected
Sys Type: GSM
IntRef
Offset
TCH Parms
Dounlink Traffic Power
Traffic Band
PCS
Traffic Channel
661
MS TX Level
0
Channel Mode Setup
Return
1 of 2

Channel 810

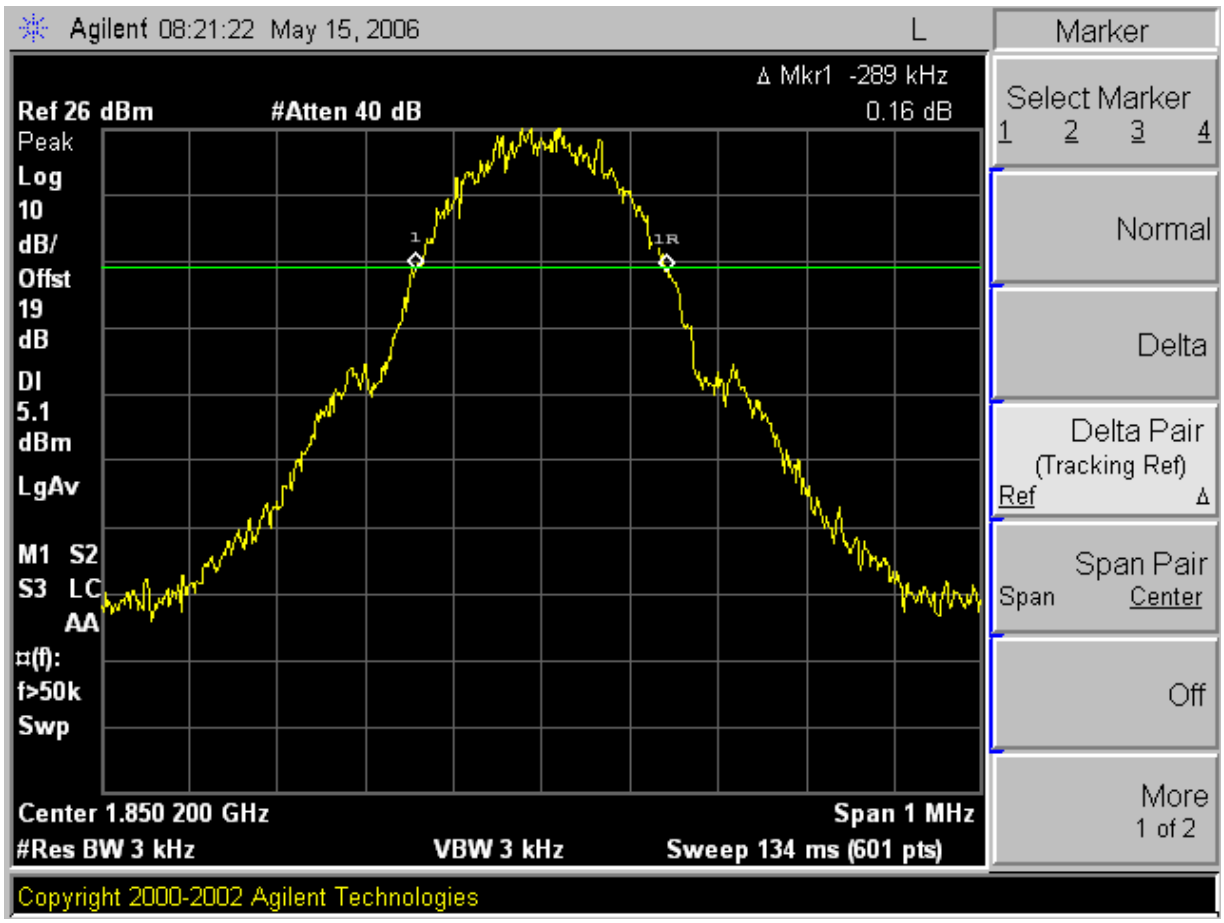

Measurement/Instrument Screen
Control
Phase & Frequency Error
TCH Parms
Phase & Freq. Setup
Change View
Peak Phase
5.38° Pass
RMS Phase
1.93° Pass
Frequency
21.78 Hz Pass
Continuous
Dounlink Traffic Power
Traffic Band
PCS
Traffic Channel
810
MS TX Level
0
Channel Mode Setup
Return
Active Cell
Connected
Sys Type: GSM
IntRef
Offset
1 of 2
1 of 2

Appendix C

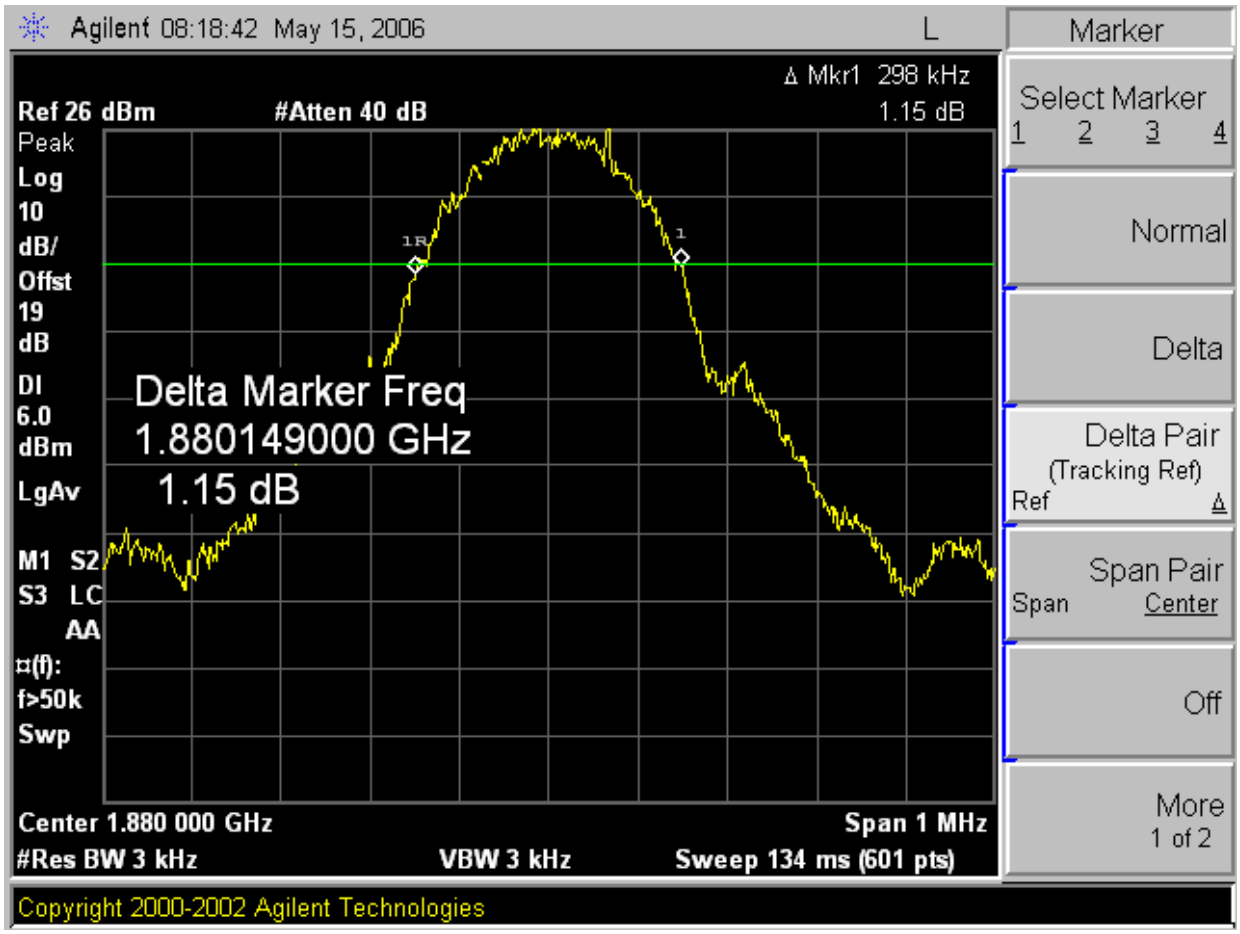
Occupied Bandwidth

According to FCC part 2.1049 & Part 24 Subpart E

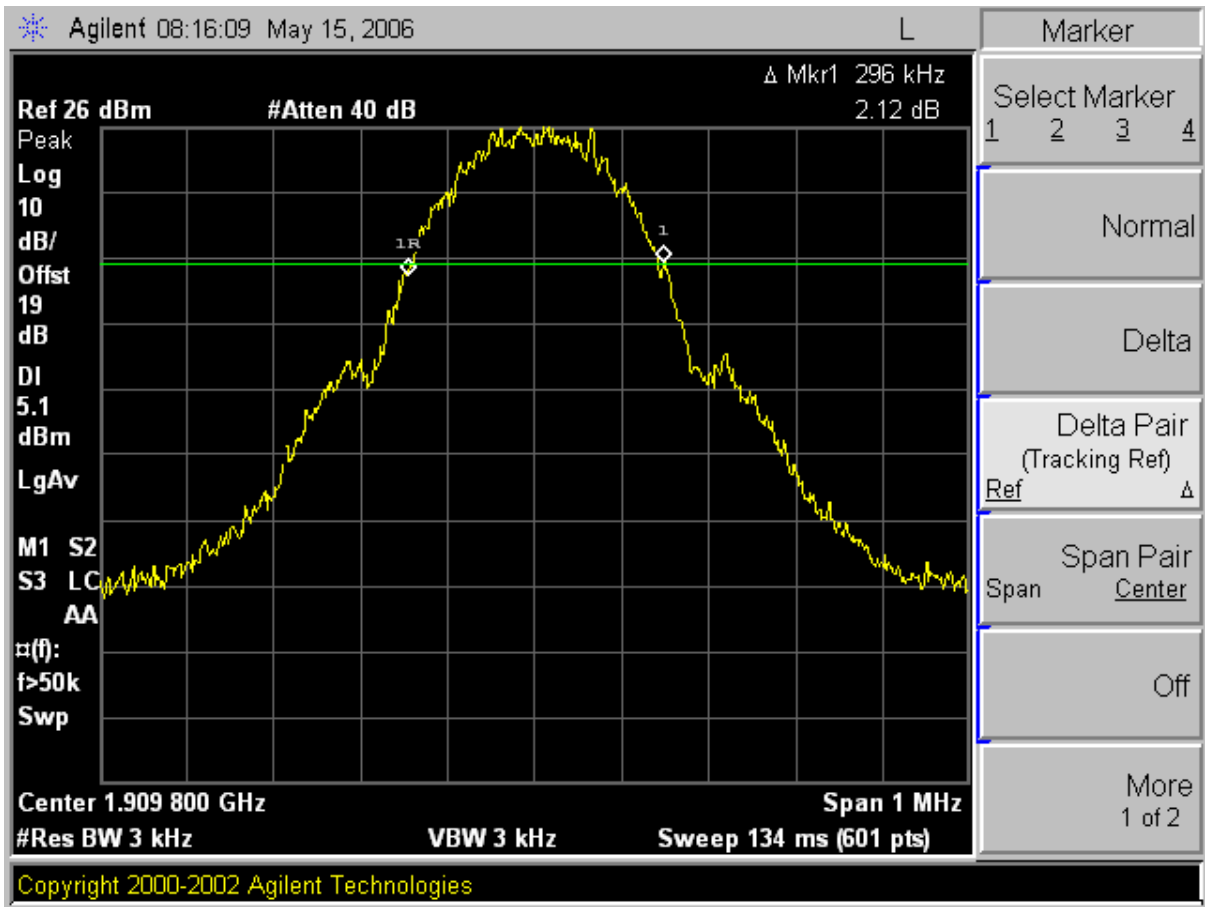
Channel 512


Agilent 08:21:22 May 15, 2006
L
Marker
Δ Mkr1 -289 kHz
Ref 26 dBm
#Atten 40 dB
0.16 dB
Peak
Log
10
dB/
Offst
19
dB
Dl
5.1
dBm
LgAv
M1 S2
S3 LC
AA
¤(f):
f>50k
Swp
Select Marker
1 2 3 4
Normal
Delta
Delta Pair
(Tracking Ref)
Ref Δ
Span Pair
Span Center
Off
More
1 of 2
Center 1.850 200 GHz
Span 1 MHz
#Res BW 3 kHz
VBW 3 kHz
Sweep 134 ms (601 pts)
Copyright 2000-2002 Agilent Technologies

Channel 661


Agilent 08:18:42 May 15, 2006
L
Marker
Δ Mkr1 298 kHz
1.15 dB
Ref 26 dBm
#Atten 40 dB
Peak
Log
10
dB/
Offst
19
dB
Dl
6.0
dBm
LgAv
M1 S2
S3 LC
AA
¤(f):
f>50k
Swp
Delta Marker Freq
1.880149000 GHz
1.15 dB
Select Marker
1 2 3 4
Normal
Delta
Delta Pair
(Tracking Ref)
Ref Δ
Span Pair
Span Center
Off
More
1 of 2
Center 1.880 000 GHz
Span 1 MHz
#Res BW 3 kHz
VBW 3 kHz
Sweep 134 ms (601 pts)
Copyright 2000-2002 Agilent Technologies

Channel 810

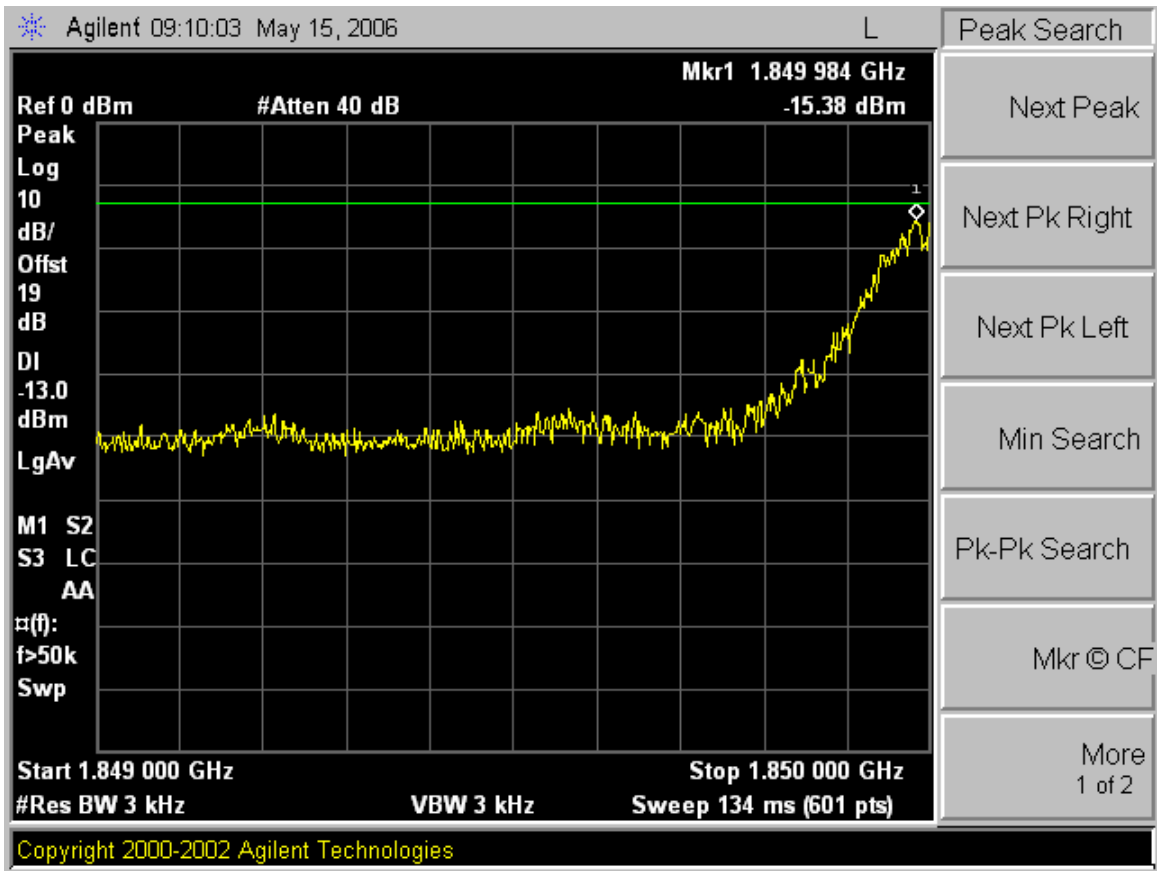

Agilent 08:16:09 May 15, 2006
L
Marker
Δ Mkr1 296 kHz
2.12 dB
Ref 26 dBm
#Atten 40 dB
Peak
Log
10
dB/
Offst
19
dB
Dl
5.1
dBm
LgAv
M1 S2
S3 LC
AA
¤(f):
f>50k
Swp
1R
1
Select Marker
1 2 3 4
Normal
Delta
Delta Pair
(Tracking Ref)
Ref Δ
Span Pair
Span Center
Off
More
1 of 2
Center 1.909 800 GHz
Span 1 MHz
#Res BW 3 kHz
VBW 3 kHz
Sweep 134 ms (601 pts)
Copyright 2000-2002 Agilent Technologies

Appendix D

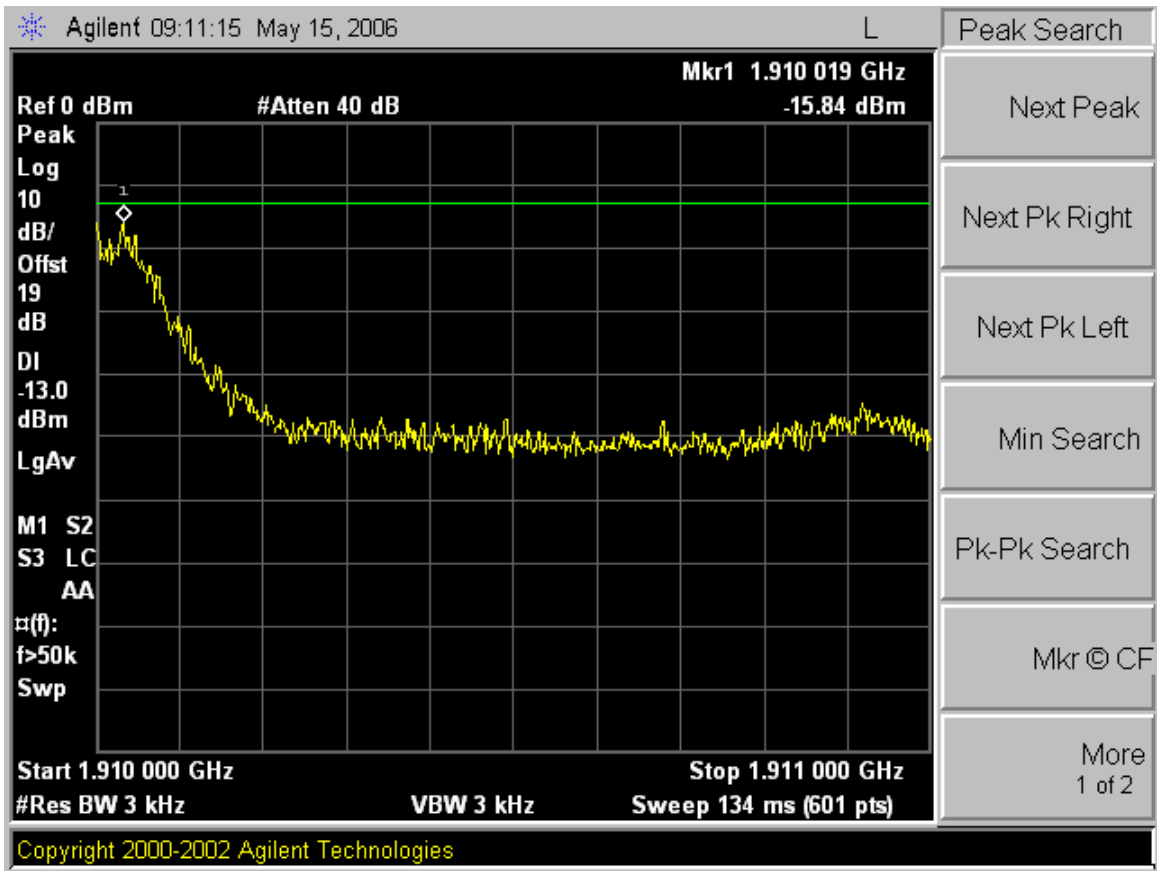
Band Edges Compliance

According to FCC Part 2.1051 & 24.238

Channel 512


Agilent 09:10:03 May 15, 2006
L
Peak Search
Mkr1 1.849 984 GHz
Ref 0 dBm
#Atten 40 dB
-15.38 dBm
Peak
Log
10
dB/
Offst
19
dB
Dl
-13.0
dBm
LgAv
M1 S2
S3 LC
AA
¤(f):
f>50k
Swp
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
Mkr © CF
More
1 of 2
Start 1.849 000 GHz
Stop 1.850 000 GHz
#Res BW 3 kHz
VBW 3 kHz
Sweep 134 ms (601 pts)
Copyright 2000-2002 Agilent Technologies

Channel 810

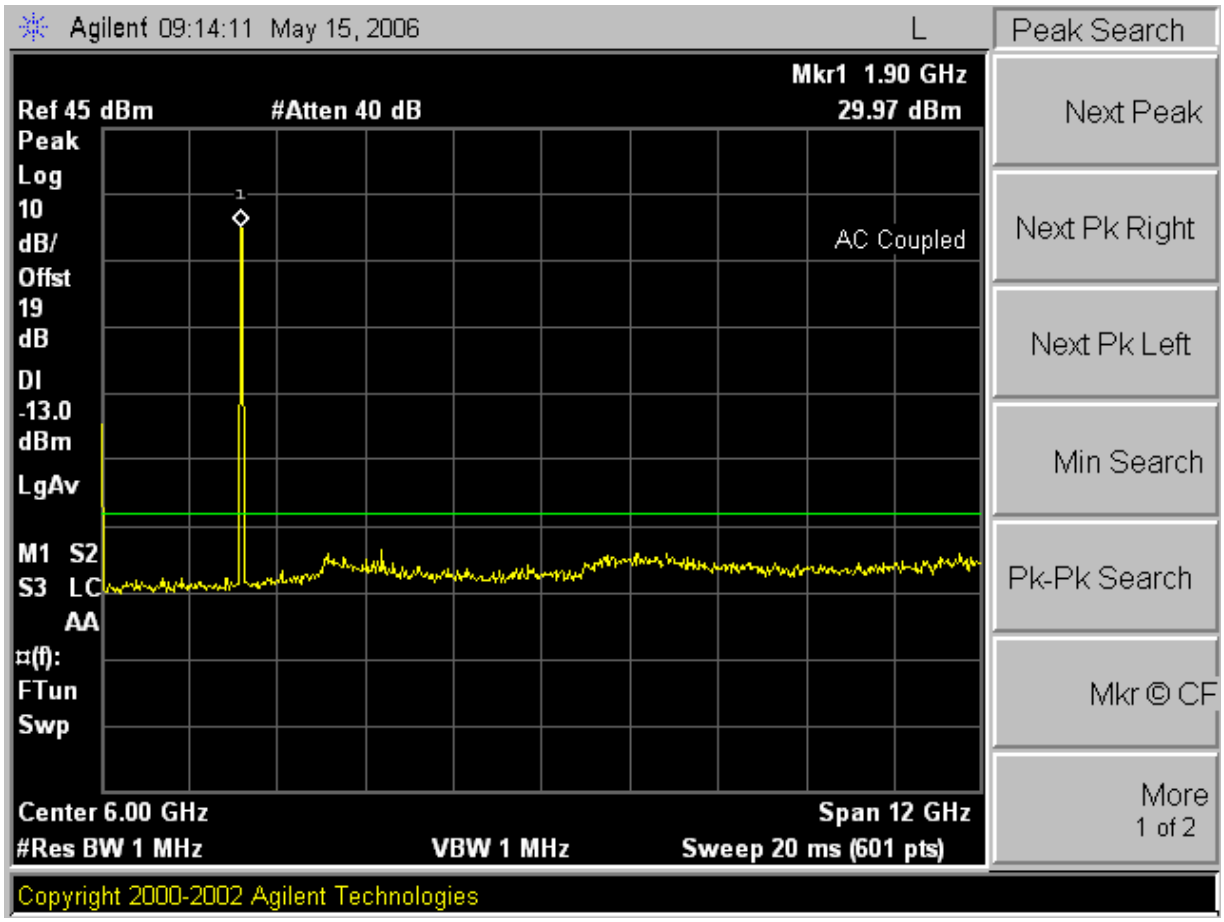

Agilent 09:11:15 May 15, 2006
L
Peak Search
Mkr1 1.910 019 GHz
Ref 0 dBm
#Atten 40 dB
-15.84 dBm
Peak
Log
10
dB/
Offst
19
dB
Dl
-13.0
dBm
LgAv
M1 S2
S3 LC
AA
¤(f):
f>50k
Swp
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
Mkr © CF
More
1 of 2
Start 1.910 000 GHz
Stop 1.911 000 GHz
#Res BW 3 kHz
VBW 3 kHz
Sweep 134 ms (601 pts)
Copyright 2000-2002 Agilent Technologies

Appendix E

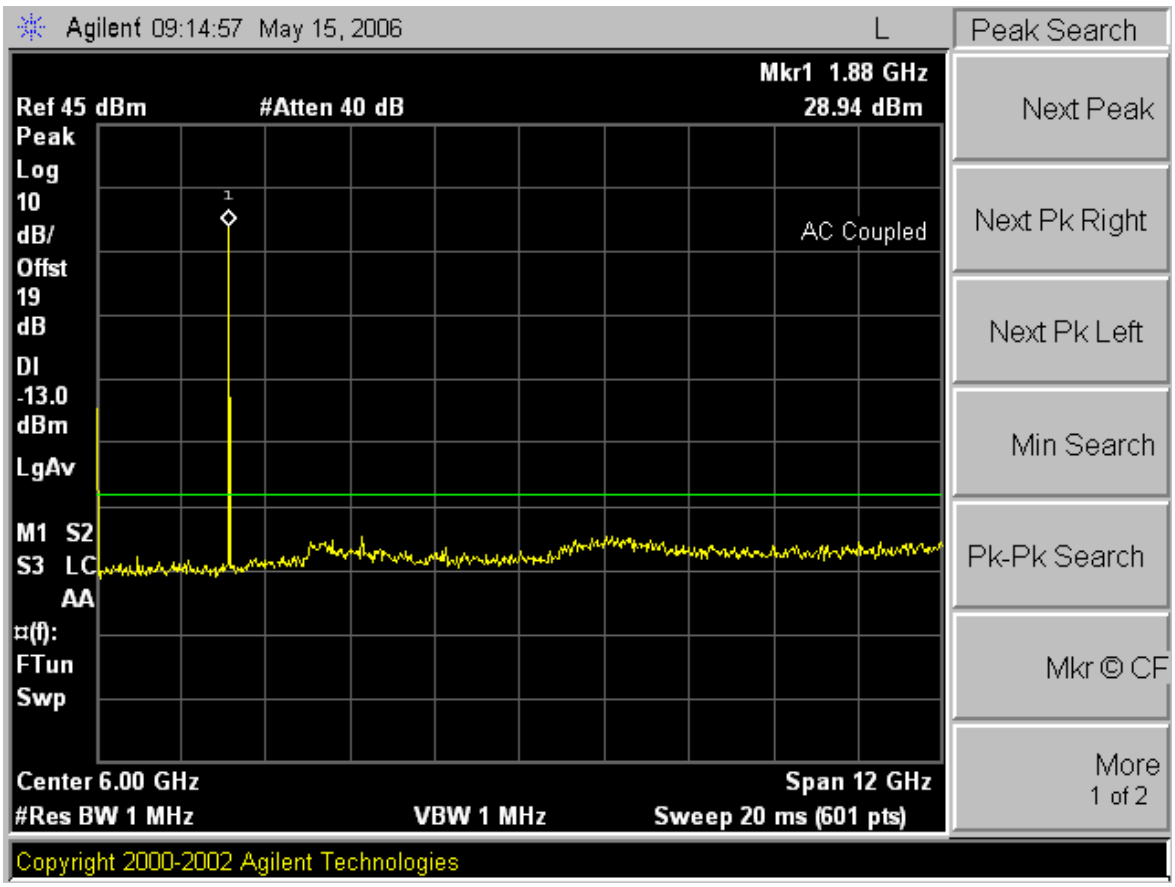
Spurious Emission at Antenna Terminal

According to FCC Part 2.1051 & 24.238

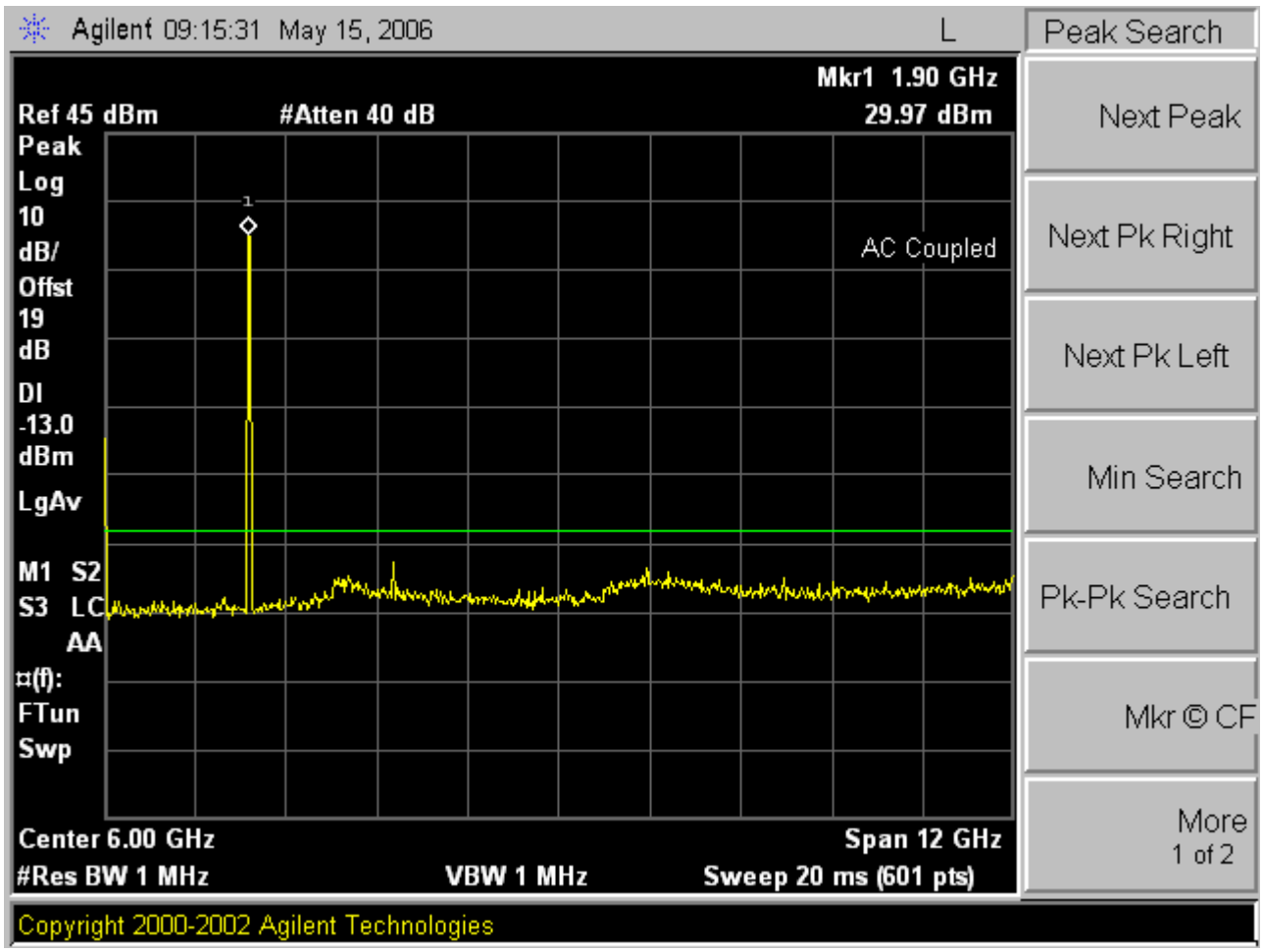
Channel 512


Agilent 09:14:11 May 15, 2006
L
Peak Search
Mkr1 1.90 GHz
29.97 dBm
Ref 45 dBm
#Atten 40 dB
Peak
Log
10
dB/
Offst
19
dB
Dl
-13.0
dBm
LgAv
AC Coupled
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
Mkr © CF
More
1 of 2
M1 S2
S3 LC
AA
¤(f):
FTun
Swp
Center 6.00 GHz
Span 12 GHz
#Res BW 1 MHz
VBW 1 MHz
Sweep 20 ms (601 pts)
Copyright 2000-2002 Agilent Technologies

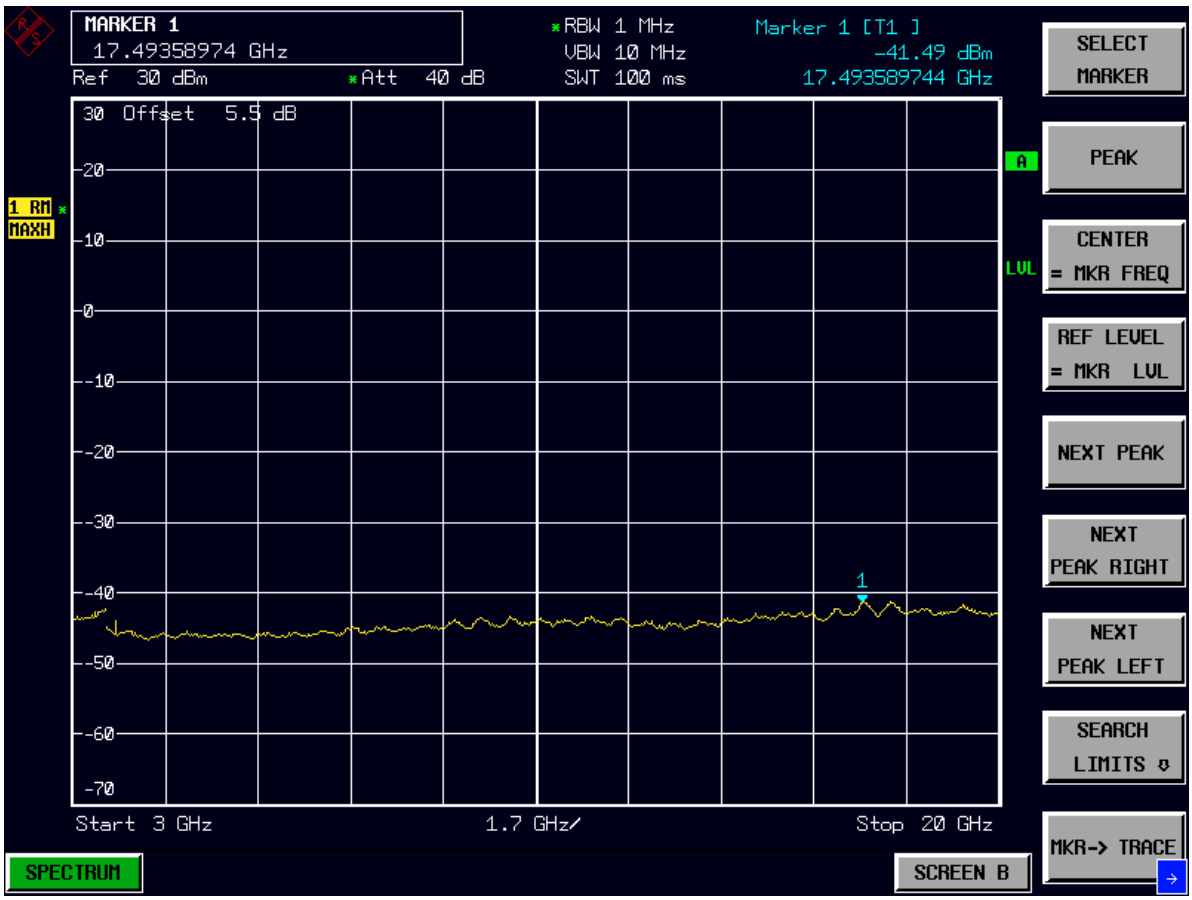
Channel 661


Agilent 09:14:57 May 15, 2006
L
Peak Search
Mkr1 1.88 GHz
28.94 dBm
Ref 45 dBm
#Atten 40 dB
Peak
Log
10
dB/
Offst
19
dB
Dl
-13.0
dBm
LgAv
AC Coupled
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
Mkr © CF
More
1 of 2
M1 S2
S3 LC
AA
¤(f):
FTun
Swp
Center 6.00 GHz
Span 12 GHz
#Res BW 1 MHz
VBW 1 MHz
Sweep 20 ms (601 pts)
Copyright 2000-2002 Agilent Technologies

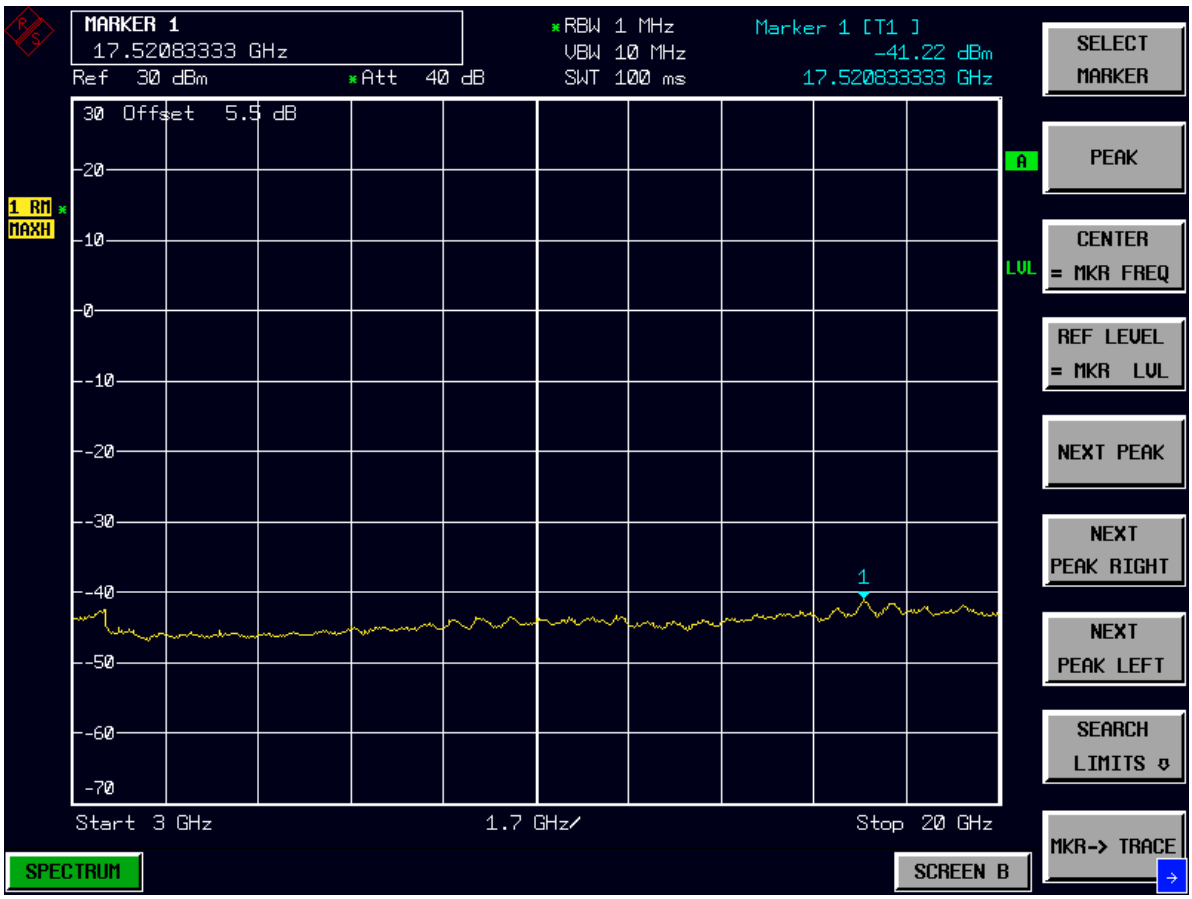
Channel 810


Agilent 09:15:31 May 15, 2006
L
Peak Search
Mkr1 1.90 GHz
Ref 45 dBm
#Atten 40 dB
29.97 dBm
Peak
Log
10
dB/
Offst
19
dB
Dl
-13.0
dBm
LgAv
AC Coupled
M1 S2
S3 LC
AA
¤(f):
FTun
Swp
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
Mkr © CF
More
1 of 2
Center 6.00 GHz
Span 12 GHz
#Res BW 1 MHz
VBW 1 MHz
Sweep 20 ms (601 pts)
Copyright 2000-2002 Agilent Technologies

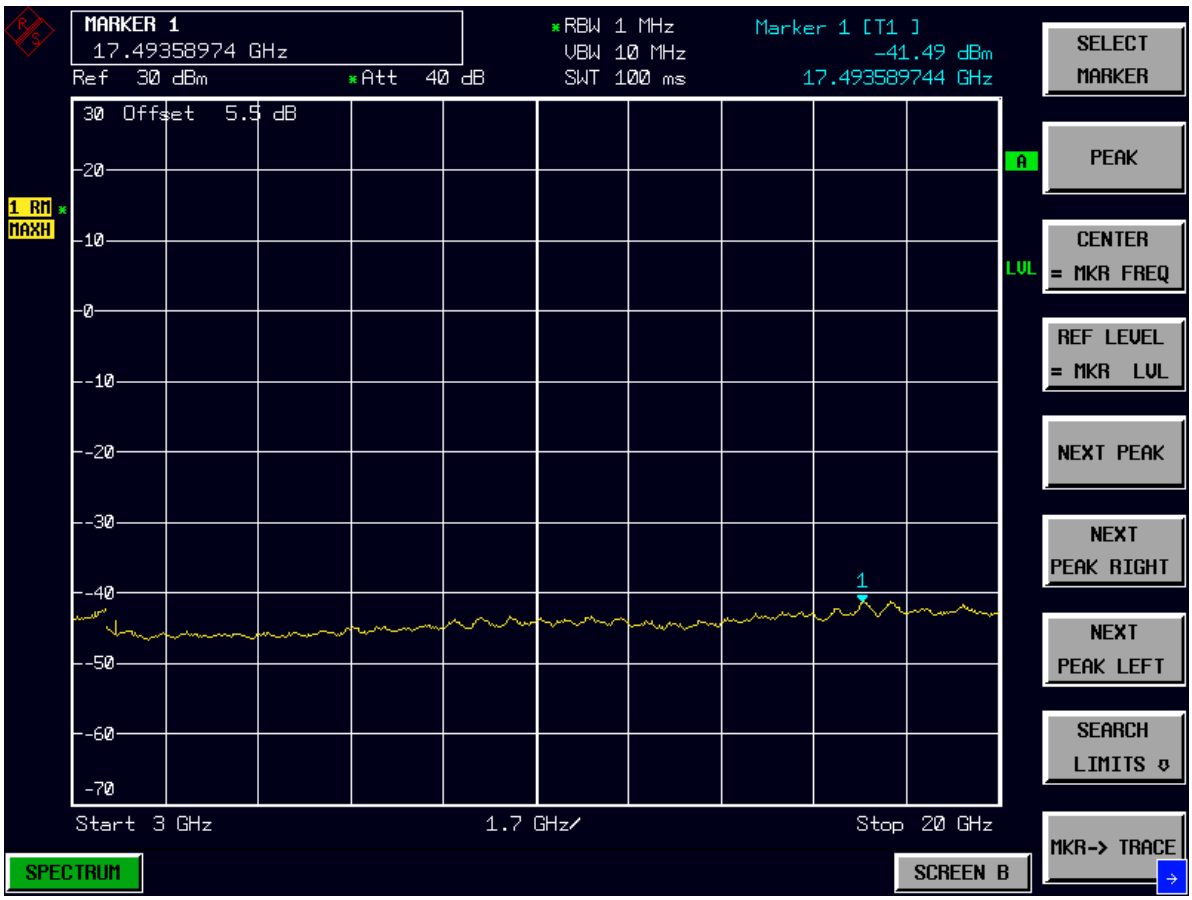
Channel 512


MARKER 1
17.49358974 GHz
Ref 30 dBm
Att 40 dB
RBW 1 MHz
VBW 10 MHz
SWT 100 ms
Marker 1 [T1]
-41.49 dBm
17.493589744 GHz
30 Offset 5.5 dB
1 RM
MAXH
A
LVL
Start 3 GHz
1.7 GHz/
Stop 20 GHz
SPECTRUM
SCREEN B
SELECT MARKER
PEAK
CENTER = MKR FREQ
REF LEVEL = MKR LVL
NEXT PEAK
NEXT PEAK RIGHT
NEXT PEAK LEFT
SEARCH LIMITS
MKR-> TRACE

Channel 661


MARKER 1
17.52083333 GHz
Ref 30 dBm
Att 40 dB
RBW 1 MHz
VBW 10 MHz
SWT 100 ms
Marker 1 [T1]
-41.22 dBm
17.520833333 GHz
30 Offset 5.5 dB
1 RM
MAXH
A
LVL
Start 3 GHz
1.7 GHz/
Stop 20 GHz
SPECTRUM
SCREEN B
SELECT MARKER
PEAK
CENTER = MKR FREQ
REF LEVEL = MKR LVL
NEXT PEAK
NEXT PEAK RIGHT
NEXT PEAK LEFT
SEARCH LIMITS
MKR-> TRACE

Channel 810

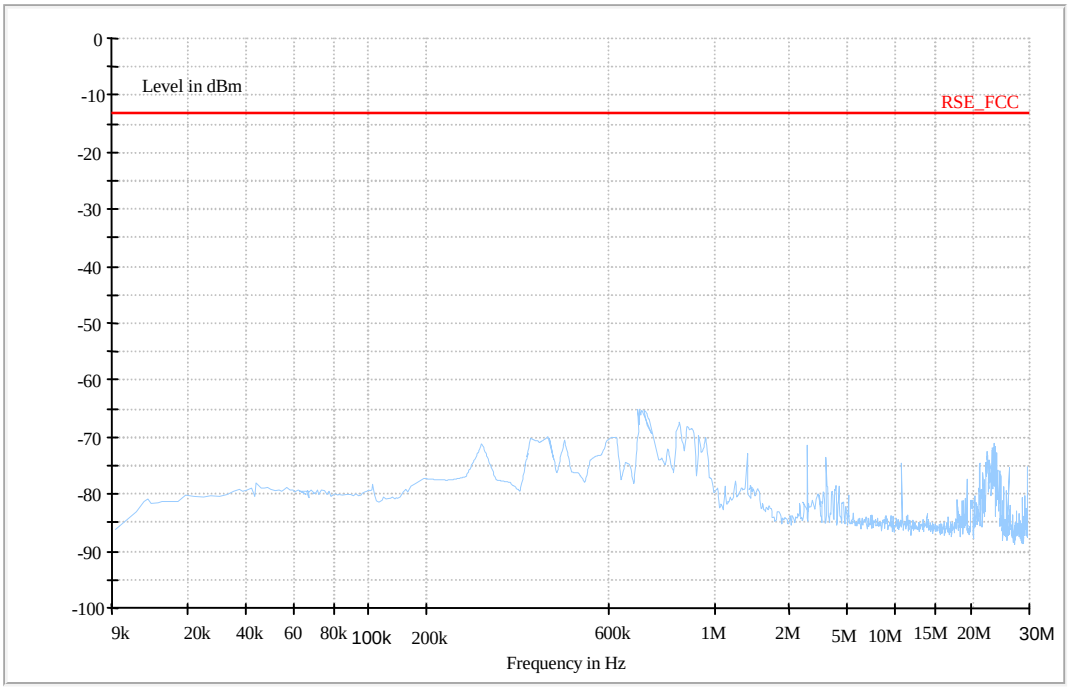

MARKER 1
17.49358974 GHz
Ref 30 dBm
Att 40 dB
RBW 1 MHz
VBW 10 MHz
SWT 100 ms
Marker 1 [T1]
-41.49 dBm
17.493589744 GHz
30 Offset 5.5 dB
1 RM
MAXH
A
LVL
Start 3 GHz
1.7 GHz/
Stop 20 GHz
SPECTRUM
SCREEN B
SELECT MARKER
PEAK
CENTER = MKR FREQ
REF LEVEL = MKR LVL
NEXT PEAK
NEXT PEAK RIGHT
NEXT PEAK LEFT
SEARCH LIMITS
MKR-> TRACE

Appendix F

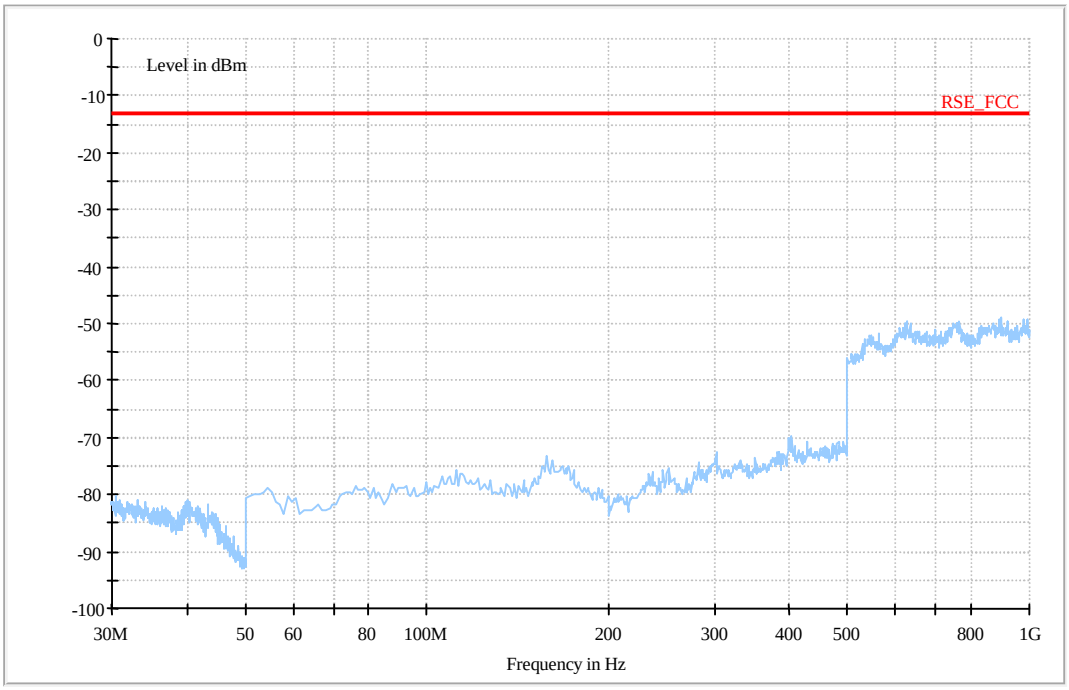
Radiated Spurious Emission

According to FCC Part 2.1053 & 24.238

Traffic Mode (9kHz-30MHz)

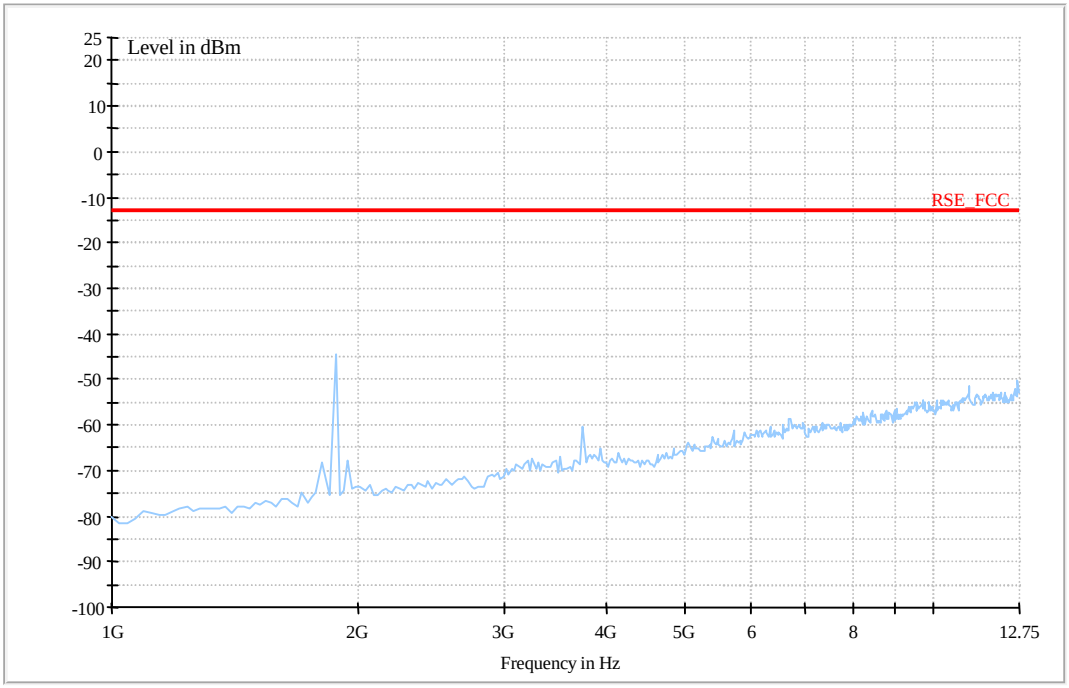


Traffic Mode (30MHz-1GHz)

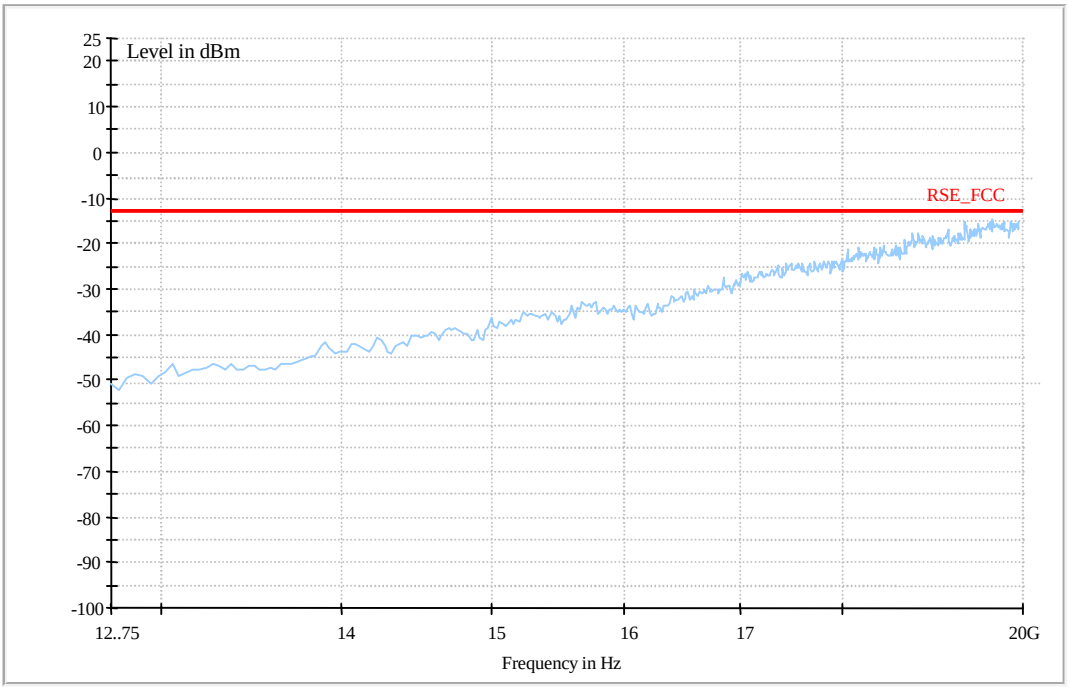


Traffic Mode (1GHz-12.75GHz)

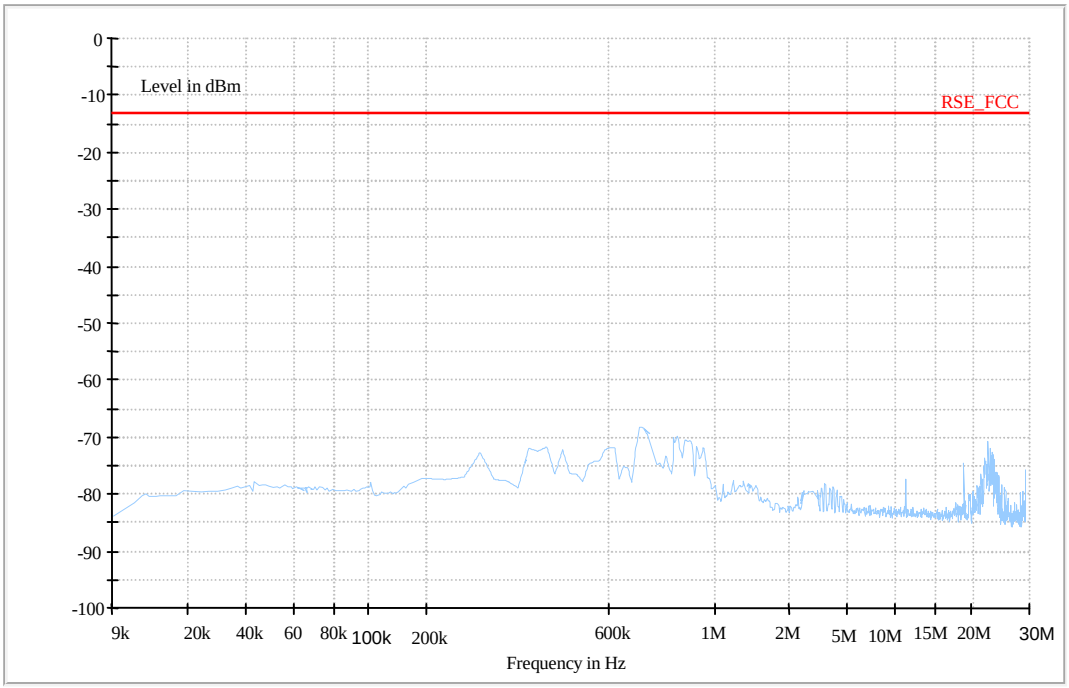
Note: The frequency which exceeded the limit was the carrier frequency.



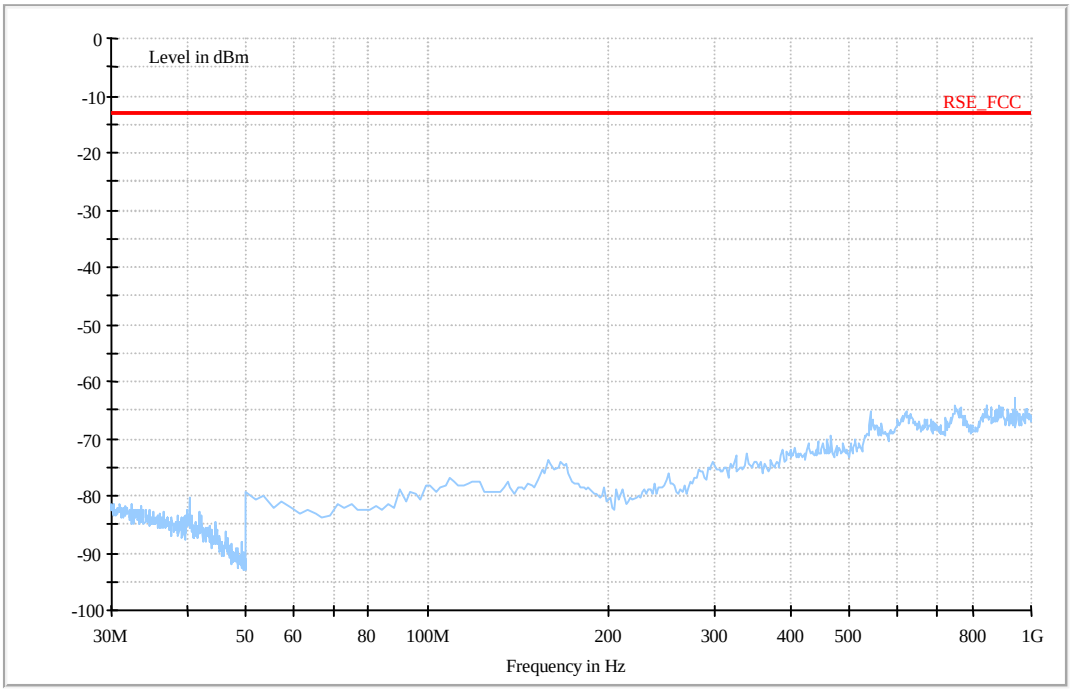
Traffic Mode (12GHz-20GHz)



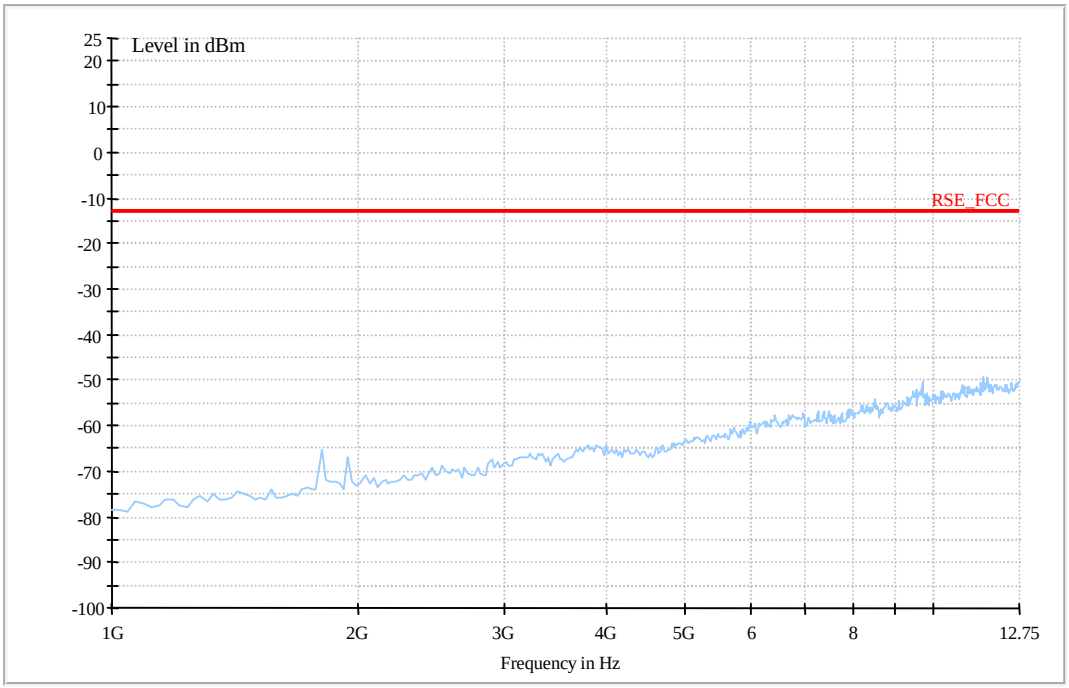
IDLE Mode (9 kHz-30MHz)



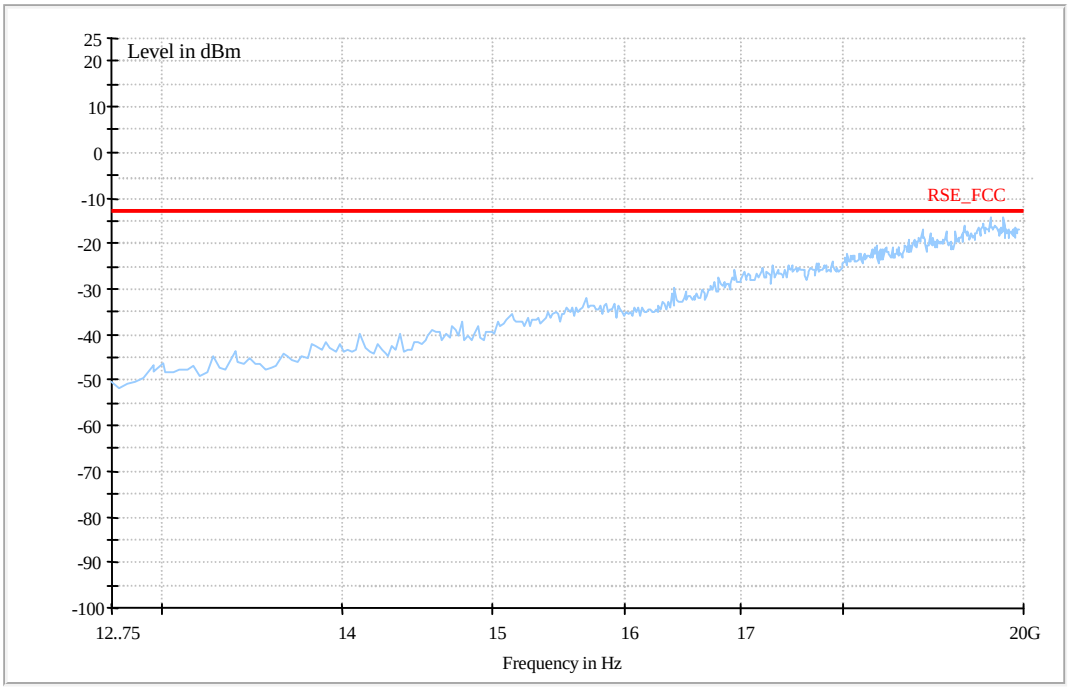
IDLE Mode (30MHz-1GHz)



IDLE Mode (1GHz-12.75GHz)



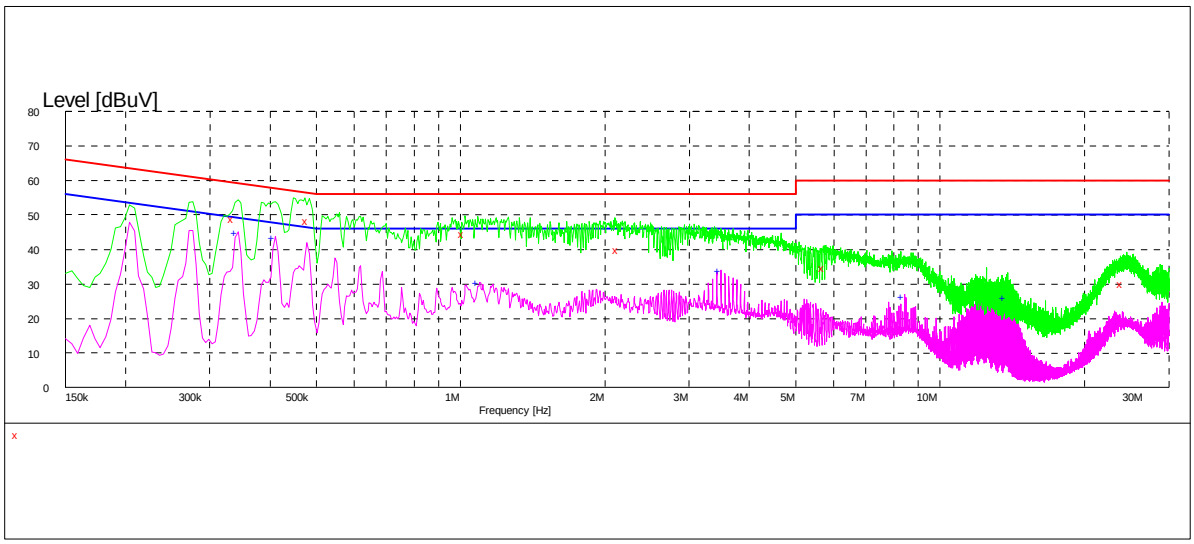
IDLE Mode (12GHz-20GHz)



Appendix G

Conducted Emission at Power Port

According to FCC Part 15.107



MEASUREMENT RESULT:QP DECTER

Frequency (MHz)	Level (dBμV)	Transd (dB)	Limit (dBμV)	Margin (dB)	Line	PE
0.339000	48.90	10.2	59	10.1	L3	FLOAT
0.483000	48.30	10.0	56	7.7	L3	FLOAT
1.023000	44.60	9.9	56	11.4	L3	FLOAT
2.148000	40.20	10.1	56	15.8	L3	FLOAT
5.779500	34.80	10.2	60	25.2	L3	FLOAT
24.247500	30.10	15.1	60	29.9	L3	FLOAT

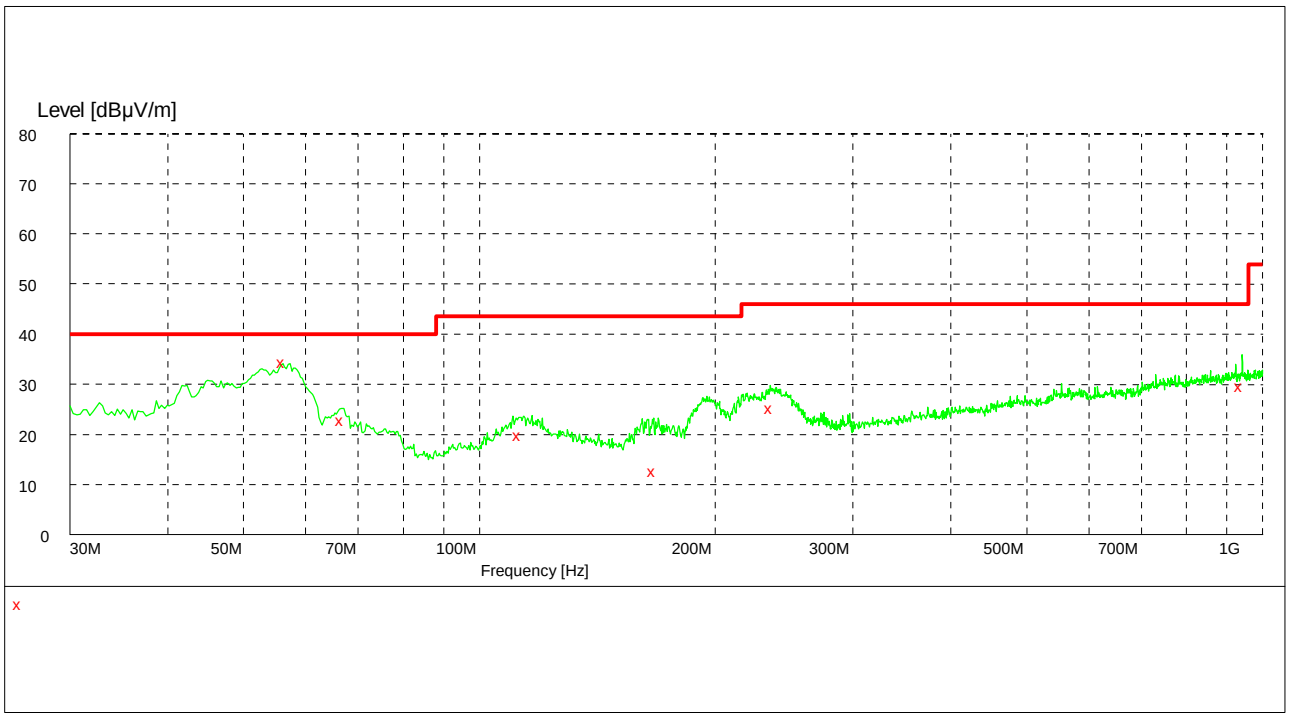
MEASUREMENT RESULT:AV DECTER

Frequency (MHz)	Level (dBμV)	Transd (dB)	Limit (dBμV)	Margin (dB)	Line	PE
0.343500	45.00	10.2	49	4.0	L3	FLOAT
0.411000	43.50	10.1	48	4.5	L3	FLOAT
1.095000	30.30	10.0	46	15.7	L3	FLOAT
3.493500	34.00	10.1	46	12.0	L3	FLOAT
8.425500	26.50	10.5	50	23.5	L3	FLOAT
13.767000	26.20	11.4	50	23.8	L3	FLOAT

Appendix H

Radiated Emission of Enclosure in Idle Mode

According to FCC Part 15.109



MEASUREMENT RESULT: QP DECTER

Frequency （MHz）	Level （dBµV/m ）	Transd （dB）	Limit （dBµV/m ）	Margin （dB）	Height （cm）	Azimuth （deg）	Polarisation
56.400000	34.60	-18.4	40.0	5.4	100.0	302.00	VERTICAL
66.960000	23.00	-19.1	40.0	17.0	100.0	53.00	VERTICAL
112.980000	20.10	-12.2	43.5	23.4	154.0	264.00	HORIZONTAL
167.460000	12.90	-13.8	43.5	30.6	100.0	155.00	VERTICAL
236.520000	25.60	-11.9	46.0	20.4	100.0	78.00	VERTICAL
941.280000	29.70	0.4	46.0	16.3	100.0	0.00	VERTICAL

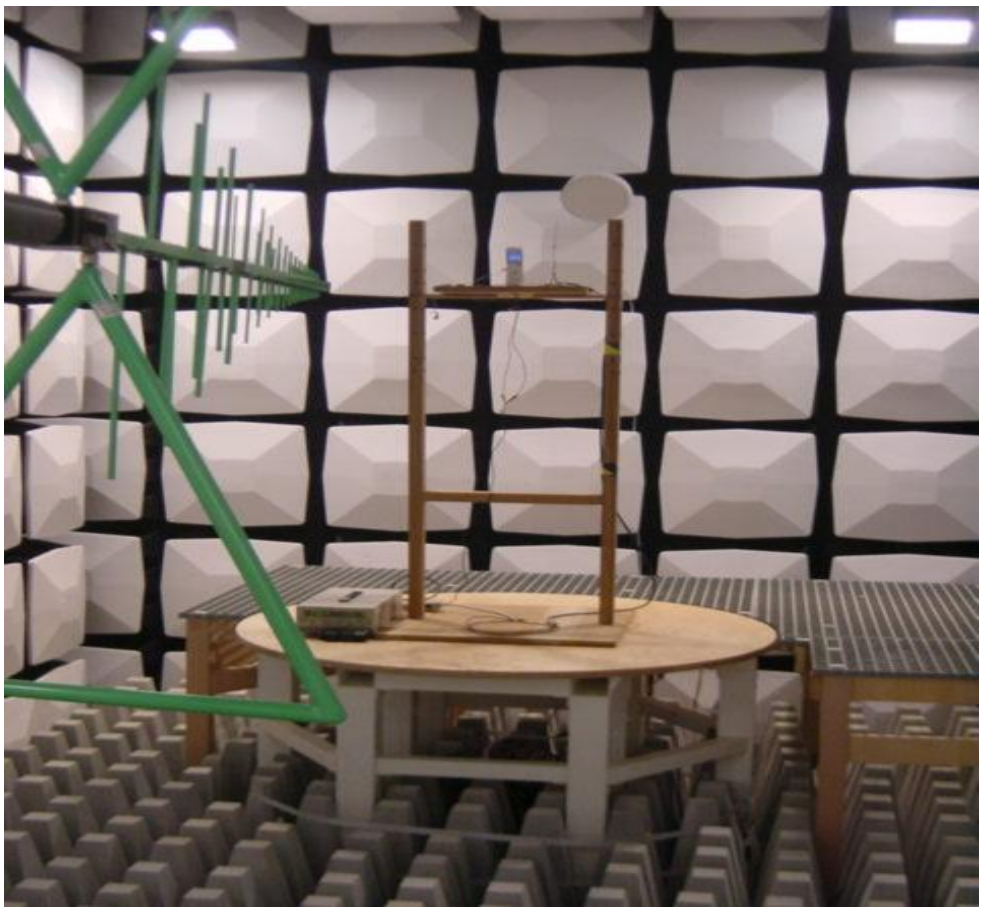
Appendix I

Photos of Test Setup

1 Radiated Emissions

Radiated Disturbance

2 Radiated Spurious Emissions



Radiated Spurious Emission (below 1GHz)

Radiated Spurious Emission (above 1GHz)

3 Conducted Emissions

Conducted Emissions for AC Ports