
Agilent Spectrum Analyzer - Swept SA
50 Ω
AC
SENSE:INT
ALIGN AUTO
08:10:07 AM Feb 16, 2009
Input: RF
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
#Avg Type: Log-Pwr
Avg|Hold:>1/1
TRACE 1 2 3 4 5 6
TYPE M WWWWW
DET P N N N N N
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Mkr2 8.366 GHz
-65.684 dBm
Log
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-100
Start 7.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 10.000 GHz
#Sweep 500 ms (1001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 7.529 GHz -63.452 dBm
2 N 1 f 8.366 GHz -65.684 dBm
3
4
5
6
7
8
9
10
11
12
MSG
STATUS
Frequency
Auto Tune
Center Freq
8.500000000 GHz
Start Freq
7.000000000 GHz
Stop Freq
10.000000000 GHz
CF Step
300.000000 MHz
Auto
Man
Freq Offset
0 Hz

Product	HSUPA PCI Express mini card module		
Test Mode	Spurious Emission (Conducted)		
Date of Test	2009/02/18	Test Site	CTR
Test Condition	WCDMA BAND V HSDPA	Test Range	30MHz~20GHz

WCDMA BAND V HSDPA Mid-Channel 4183

Frequency (MHz)	Reading Level (dBm)	Path Loss (dB)	Emission Level (dBm)	Limit (dBm)
1673.2	-60.38	0.58	-59.80	-13
2509.8	-62.11	0.7	-61.41	-13
3346.4	-54.70	1.01	-53.69	-13
4183	-64.76	1.18	-63.58	-13
5019.6	-62.13	1.23	-60.90	-13
5856.2	-60.69	1.45	-59.24	-13
6692.8	-61.12	1.56	-59.56	-13
7529.4	-63.44	1.59	-61.85	-13
8366	-65.87	1.82	-64.05	-13


Agilent Spectrum Analyzer - Swept SA
50 Ω
AC
SENSE:INT
ALIGN AUTO
08:38:53 AM Feb 16, 2009
Input: RF
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
#Avg Type: Log-Pwr
Avg|Hold:>1/1
Frequency
Auto Tune
Mkr3 3.349 GHz
-54.703 dBm
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Log
Center Freq
2.500000000 GHz
Start Freq
1.000000000 GHz
Stop Freq
4.000000000 GHz
Start 1.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 4.000 GHz
#Sweep 500 ms (1001 pts)
CF Step
300.000000 MHz
Auto
Man
Freq Offset
0 Hz
1 N 1 f 1.673 GHz -60.379 dBm
2 N 1 f 2.510 GHz -62.112 dBm
3 N 1 f 3.349 GHz -54.703 dBm
MSG
STATUS

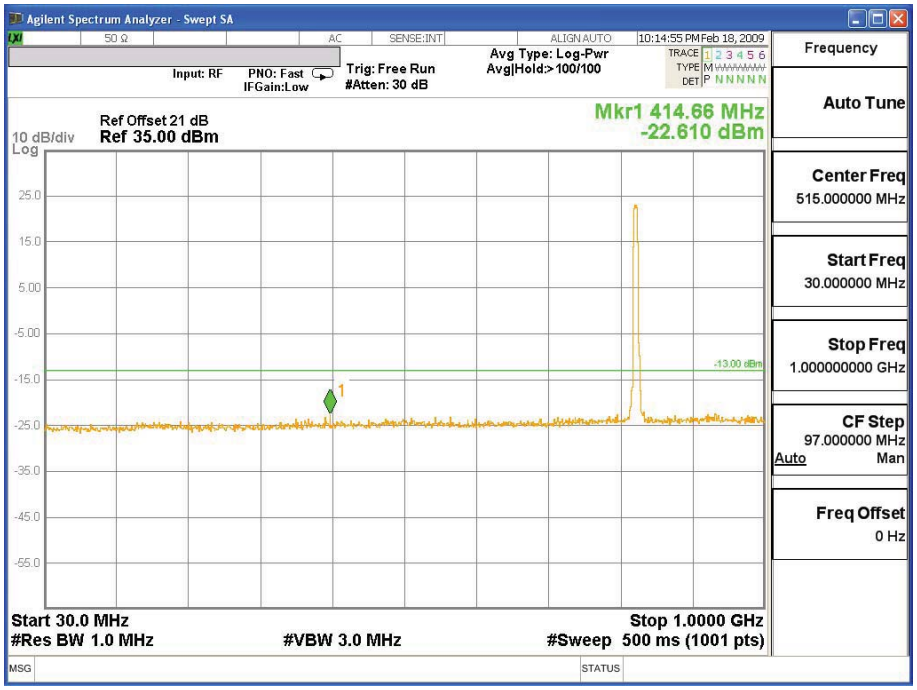

Agilent Spectrum Analyzer - Swept SA
50 Ω
AC
SENSE:INT
ALIGN AUTO
08:39:41 AM Feb 16, 2009
Input: RF
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
#Avg Type: Log-Pwr
Avg|Hold:>1/1
Frequency
Auto Tune
Mkr4 6.693 GHz
-61.123 dBm
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Log
Center Freq
5.500000000 GHz
Start Freq
4.000000000 GHz
Stop Freq
7.000000000 GHz
Start 4.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 7.000 GHz
#Sweep 500 ms (1001 pts)
CF Step
300.000000 MHz
Auto
Man
Freq Offset
0 Hz
1 N 1 f 4.183 GHz -64.761 dBm
2 N 1 f 5.020 GHz -62.128 dBm
3 N 1 f 5.856 GHz -60.689 dBm
4 N 1 f 6.693 GHz -61.123 dBm
MSG
STATUS


Agilent Spectrum Analyzer - Swept SA
50 Ω
AC
SENSE:INT
ALIGN AUTO
08:40:27 AM Feb 16, 2009
Input: RF
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
#Avg Type: Log-Pwr
Avg|Hold:>1/1
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Log
Mkr2 8.366 GHz
-65.866 dBm
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-100
Start 7.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 10.000 GHz
#Sweep 500 ms (1001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 7.529 GHz -63.440 dBm
2 N 1 f 8.366 GHz -65.866 dBm
3
4
5
6
7
8
9
10
11
12
MSG
STATUS
Frequency
Auto Tune
Center Freq
8.500000000 GHz
Start Freq
7.000000000 GHz
Stop Freq
10.000000000 GHz
CF Step
300.000000 MHz
Auto
Man
Freq Offset
0 Hz

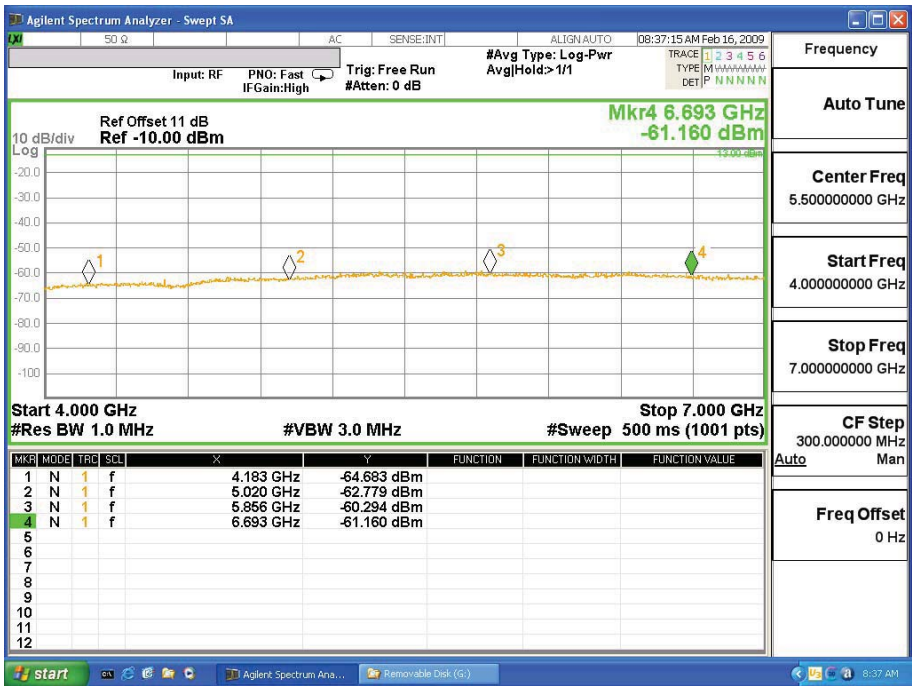
Product	HSUPA PCI Express mini card module		
Test Mode	Spurious Emission (Conducted)		
Date of Test	2009/02/18	Test Site	CTR
Test Condition	WCDMA BAND V HSUPA	Test Range	30MHz~20GHz

WCDMA BAND V HSUPA Mid-Channel 4183

Frequency (MHz)	Reading Level (dBm)	Path Loss (dB)	Emission Level (dBm)	Limit (dBm)
1673.2	-60.38	0.58	-59.80	-13
2509.8	-62.37	0.7	-61.67	-13
3346.4	-54.58	1.01	-53.57	-13
4183	-64.68	1.18	-63.50	-13
5019.6	-62.78	1.23	-61.55	-13
5856.2	-60.29	1.45	-58.84	-13
6692.8	-61.16	1.56	-59.60	-13
7529.4	-63.91	1.59	-62.32	-13
8366	-65.84	1.82	-64.02	-13




Agilent Spectrum Analyzer - Swept SA
50 Ω
AC
SENSE:INT
ALIGN AUTO
08:36:29 AM Feb 16, 2009
Input: RF
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
#Avg Type: Log-Pwr
Avg|Hold:>1/1
Frequency
Auto Tune
Mkr3 3.352 GHz
-54.581 dBm
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Log
Center Freq
2.500000000 GHz
Start Freq
1.000000000 GHz
Stop Freq
4.000000000 GHz
Start 1.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 4.000 GHz
#Sweep 500 ms (1001 pts)
CF Step
300.000000 MHz
Auto
Man
Freq Offset
0 Hz
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 1.673 GHz -60.377 dBm
2 N 1 f 2.510 GHz -62.370 dBm
3 N 1 f 3.352 GHz -54.581 dBm
start
Agilent Spectrum Ana...
Removable Disk (G:)
8:36 AM

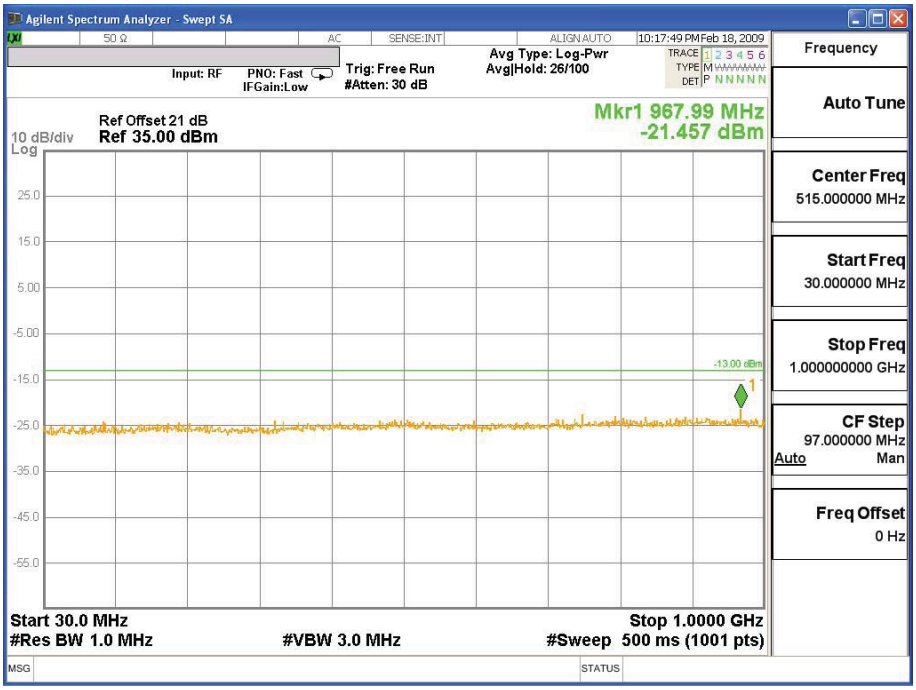

Agilent Spectrum Analyzer - Swept SA
50 Ω
AC
SENSE:INT
ALIGN AUTO
08:37:15 AM Feb 16, 2009
Input: RF
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
#Avg Type: Log-Pwr
Avg|Hold:>1/1
Frequency
Auto Tune
Mkr4 6.693 GHz
-61.160 dBm
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Log
Center Freq
5.500000000 GHz
Start Freq
4.000000000 GHz
Stop Freq
7.000000000 GHz
Start 4.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 7.000 GHz
#Sweep 500 ms (1001 pts)
CF Step
300.000000 MHz
Auto
Man
Freq Offset
0 Hz
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 4.183 GHz -64.683 dBm
2 N 1 f 5.020 GHz -62.779 dBm
3 N 1 f 5.856 GHz -60.294 dBm
4 N 1 f 6.693 GHz -61.160 dBm
start
Agilent Spectrum Ana...
Removable Disk (G:)
8:37 AM


Agilent Spectrum Analyzer - Swept SA
50 Ω
AC
SENSE:INT
ALIGN AUTO
08:35:27 AM Feb 16, 2009
Input: RF
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
#Avg Type: Log-Pwr
Avg|Hold:>1/1
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Log
Mkr2 8.366 GHz
-65.835 dBm
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-100
Start 7.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 10.000 GHz
#Sweep 500 ms (1001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 7.529 GHz -63.912 dBm
2 N 1 f 8.366 GHz -65.835 dBm
3
4
5
6
7
8
9
10
11
12
Frequency
Auto Tune
Center Freq
8.500000000 GHz
Start Freq
7.000000000 GHz
Stop Freq
10.000000000 GHz
CF Step
300.000000 MHz
Auto
Man
Freq Offset
0 Hz
start
Agilent Spectrum Ana...
Removable Disk (G:)
8:35 AM

Product	HSUPA PCI Express mini card module		
Test Mode	Spurious Emission (Conducted)		
Date of Test	2009/02/18	Test Site	CTR
Test Condition	WCDMA BAND II	Test Range	30MHz~20GHz

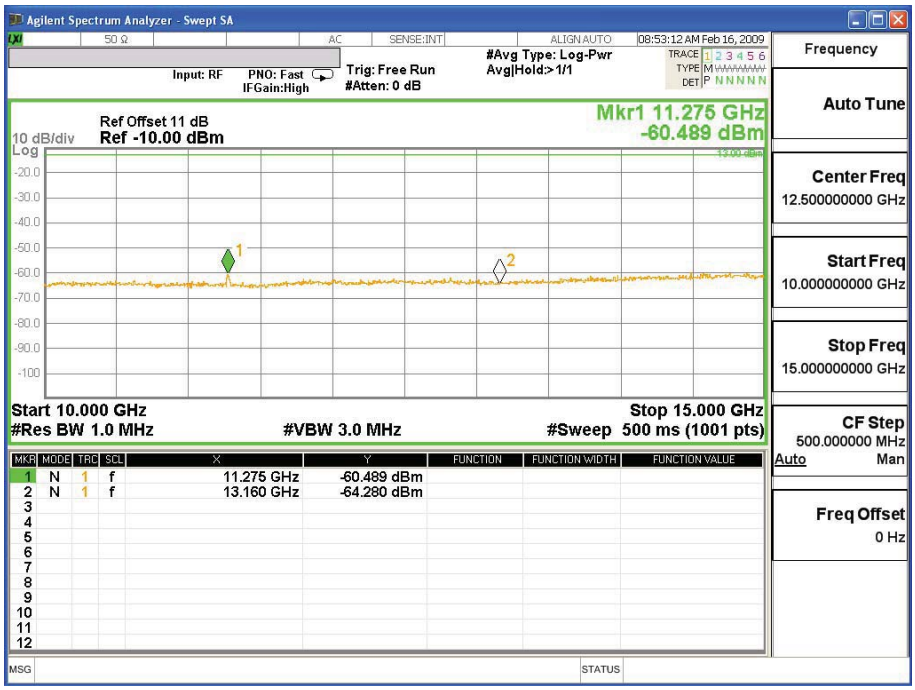
WCDMA BAND II Mid-Channel 9400

Frequency (MHz)	Reading Level (dBm)	Path Loss (dB)	Emission Level (dBm)	Limit (dBm)
3760	-50.66	1.1	-49.56	-13
5640	-57.68	1.23	-56.45	-13
7520	-63.24	1.59	-61.65	-13
9400	-64.31	1.89	-62.42	-13
11280	-60.49	2.07	-58.42	-13
13160	-64.28	2.26	-62.02	-13
15040	-61.10	2.64	-58.46	-13
16920	-60.38	3.5	-56.88	-13
18800	-59.75	3.7	-56.05	-13




Agilent Spectrum Analyzer - Swept SA
50 Ω
AC
SENSE:INT
ALIGN AUTO
08:52:10 AM Feb 16, 2009
Input: RF
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
#Avg Type: Log-Pwr
Avg|Hold:>1/1
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Mkr1 3.760 GHz
-50.663 dBm
Start 1.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 5.000 GHz
#Sweep 500 ms (1001 pts)
1 N 1 f 3.760 GHz -50.663 dBm
Frequency
Auto Tune
Center Freq
3.000000000 GHz
Start Freq
1.000000000 GHz
Stop Freq
5.000000000 GHz
CF Step
400.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS


Agilent Spectrum Analyzer - Swept SA
50 Ω
AC
SENSE:INT
ALIGN AUTO
08:52:40 AM Feb 16, 2009
Input: RF
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
#Avg Type: Log-Pwr
Avg|Hold:>1/1
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Mkr3 9.400 GHz
-64.309 dBm
Start 5.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 10.000 GHz
#Sweep 500 ms (1001 pts)
1 N 1 f 5.640 GHz -57.681 dBm
2 N 1 f 7.520 GHz -63.243 dBm
3 N 1 f 9.400 GHz -64.309 dBm
Frequency
Auto Tune
Center Freq
7.500000000 GHz
Start Freq
5.000000000 GHz
Stop Freq
10.000000000 GHz
CF Step
500.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

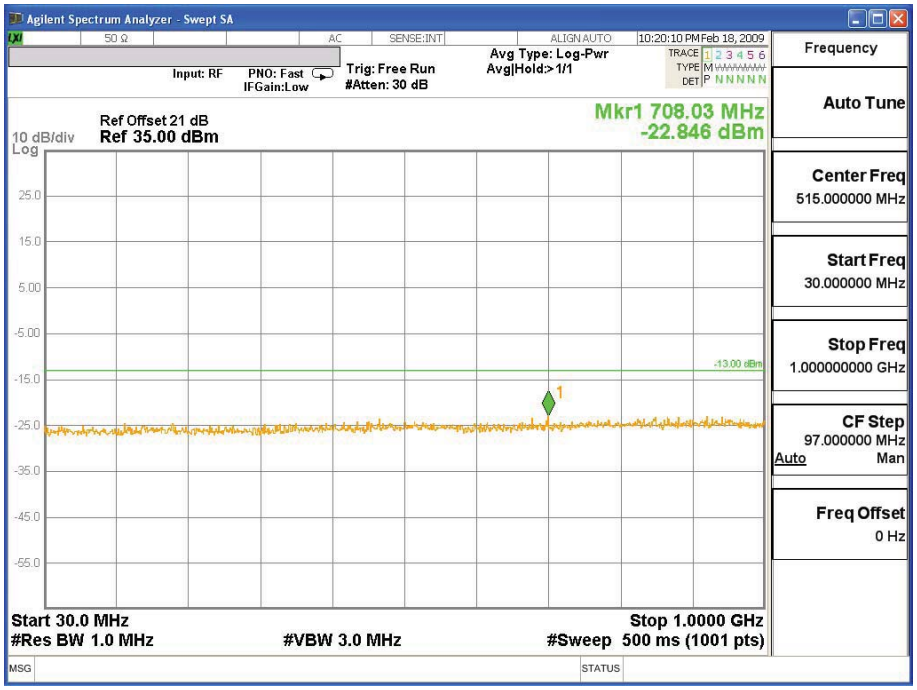

Agilent Spectrum Analyzer - Swept SA
50 Ω
AC
SENSE:INT
ALIGN AUTO
08:53:12 AM Feb 16, 2009
Input: RF
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
#Avg Type: Log-Pwr
Avg|Hold:>1/1
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Mkr1 11.275 GHz
-60.489 dBm
Start 10.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 15.000 GHz
#Sweep 500 ms (1001 pts)
1 N 1 f 11.275 GHz -60.489 dBm
2 N 1 f 13.160 GHz -64.280 dBm
Frequency
Auto Tune
Center Freq
12.500000000 GHz
Start Freq
10.000000000 GHz
Stop Freq
15.000000000 GHz
CF Step
500.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS


Agilent Spectrum Analyzer - Swept SA
50 Ω
AC
SENSE:INT
ALIGN AUTO
08:51:41 AM Feb 16, 2009
Input: RF
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
#Avg Type: Log-Pwr
Avg|Hold:>1/1
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Mkr3 18.800 GHz
-59.745 dBm
Start 15.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 20.000 GHz
#Sweep 500 ms (1001 pts)
1 N 1 f 15.040 GHz -61.095 dBm
2 N 1 f 16.920 GHz -60.375 dBm
3 N 1 f 18.800 GHz -59.745 dBm
Frequency
Auto Tune
Center Freq
17.500000000 GHz
Start Freq
15.000000000 GHz
Stop Freq
20.000000000 GHz
CF Step
500.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

Product	HSUPA PCI Express mini card module		
Test Mode	Spurious Emission (Conducted)		
Date of Test	2009/02/18	Test Site	CTR
Test Condition	WCDMA BAND II HSDPA	Test Range	30MHz~20GHz

WCDMA BAND II HSDPA Mid-Channel 9400

Frequency (MHz)	Reading Level (dBm)	Path Loss (dB)	Emission Level (dBm)	Limit (dBm)
3760	-50.28	1.1	-49.18	-13
5640	-58.07	1.23	-56.84	-13
7520	-63.31	1.59	-61.72	-13
9400	-64.63	1.89	-62.74	-13
11280	-60.58	2.07	-58.51	-13
13160	-63.67	2.26	-61.41	-13
15040	-60.95	2.64	-58.31	-13
16920	-60.82	3.5	-57.32	-13
18800	-59.99	3.7	-56.29	-13




Agilent Spectrum Analyzer - Swept SA
50 Ω
AC
SENSE:INT
ALIGN AUTO
08:43:20 AM Feb 16, 2009
Input: RF
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
#Avg Type: Log-Pwr
Avg|Hold:>1/1
Frequency
Auto Tune
Mkr1 3.760 GHz
-50.282 dBm
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Log
Center Freq
3.000000000 GHz
Start Freq
1.000000000 GHz
Stop Freq
5.000000000 GHz
Start 1.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 5.000 GHz
#Sweep 500 ms (1001 pts)
CF Step
400.000000 MHz
Auto
Man
Freq Offset
0 Hz
1 N 1 f 3.760 GHz -50.282 dBm
MSG
STATUS


Agilent Spectrum Analyzer - Swept SA
50 Ω
AC
SENSE:INT
ALIGN AUTO
08:44:25 AM Feb 16, 2009
Input: RF
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
#Avg Type: Log-Pwr
Avg|Hold:>1/1
Frequency
Auto Tune
Mkr3 9.400 GHz
-64.632 dBm
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Log
Center Freq
7.500000000 GHz
Start Freq
5.000000000 GHz
Stop Freq
10.000000000 GHz
Start 5.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 10.000 GHz
#Sweep 500 ms (1001 pts)
CF Step
500.000000 MHz
Auto
Man
Freq Offset
0 Hz
1 N 1 f 5.640 GHz -58.070 dBm
2 N 1 f 7.520 GHz -63.312 dBm
3 N 1 f 9.400 GHz -64.632 dBm
MSG
STATUS

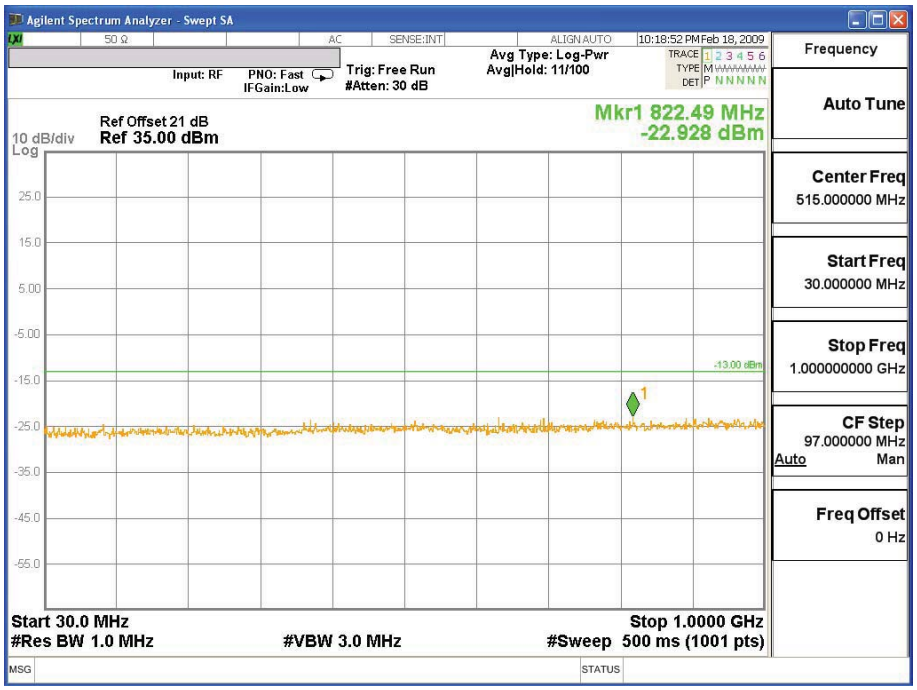

Agilent Spectrum Analyzer - Swept SA
08:45:16 AM Feb 16, 2009
Input: RF
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
#Avg Type: Log-Pwr
Avg|Hold:>1/1
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Mkr1 11.275 GHz
-60.577 dBm
Start 10.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 15.000 GHz
#Sweep 500 ms (1001 pts)
1 N 1 f 11.275 GHz -60.577 dBm
2 N 1 f 13.160 GHz -63.665 dBm
Frequency
Auto Tune
Center Freq
12.500000000 GHz
Start Freq
10.000000000 GHz
Stop Freq
15.000000000 GHz
CF Step
500.000000 MHz
Auto
Man
Freq Offset
0 Hz


Agilent Spectrum Analyzer - Swept SA
08:45:56 AM Feb 16, 2009
Input: RF
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
#Avg Type: Log-Pwr
Avg|Hold:>1/1
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Mkr3 18.800 GHz
-59.985 dBm
Start 15.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 20.000 GHz
#Sweep 500 ms (1001 pts)
1 N 1 f 15.040 GHz -60.946 dBm
2 N 1 f 16.920 GHz -60.818 dBm
3 N 1 f 18.800 GHz -59.985 dBm
Frequency
Auto Tune
Center Freq
17.500000000 GHz
Start Freq
15.000000000 GHz
Stop Freq
20.000000000 GHz
CF Step
500.000000 MHz
Auto
Man
Freq Offset
0 Hz

Product	HSUPA PCI Express mini card module		
Test Mode	Spurious Emission (Conducted)		
Date of Test	2009/02/18	Test Site	CTR
Test Condition	WCDMA BAND II HSUPA	Test Range	30MHz~20GHz

WCDMA BAND II HSUPA Mid-Channel 9400

Frequency (MHz)	Reading Level (dBm)	Path Loss (dB)	Emission Level (dBm)	Limit (dBm)
3760	-50.25	1.1	-49.15	-13
5640	-57.89	1.23	-56.66	-13
7520	-63.40	1.59	-61.81	-13
9400	-64.60	1.89	-62.71	-13
11280	-62.44	2.07	-60.37	-13
13160	-61.65	2.26	-59.39	-13
15040	-61.23	2.64	-58.59	-13
16920	-60.15	3.5	-56.65	-13
18800	-58.75	3.7	-55.05	-13




Agilent Spectrum Analyzer - Swept SA
50 Ω
AC
SENSE:INT
ALIGN AUTO
08:49:02 AM Feb 16, 2009
Input: RF
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
#Avg Type: Log-Pwr
Avg|Hold:>1/1
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Mkr1 3.760 GHz
-50.247 dBm
Start 1.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 5.000 GHz
#Sweep 500 ms (1001 pts)
1 N 1 f 3.760 GHz -50.247 dBm
Frequency
Auto Tune
Center Freq
3.000000000 GHz
Start Freq
1.000000000 GHz
Stop Freq
5.000000000 GHz
CF Step
400.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS


Agilent Spectrum Analyzer - Swept SA
50 Ω
AC
SENSE:INT
ALIGN AUTO
08:49:39 AM Feb 16, 2009
Input: RF
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
#Avg Type: Log-Pwr
Avg|Hold:>1/1
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Mkr3 9.400 GHz
-64.595 dBm
Start 5.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 10.000 GHz
#Sweep 500 ms (1001 pts)
1 N 1 f 5.640 GHz -57.892 dBm
2 N 1 f 7.520 GHz -63.404 dBm
3 N 1 f 9.400 GHz -64.595 dBm
Frequency
Auto Tune
Center Freq
7.500000000 GHz
Start Freq
5.000000000 GHz
Stop Freq
10.000000000 GHz
CF Step
500.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS


Agilent Spectrum Analyzer - Swept SA
08:50:07 AM Feb 16, 2009
Input: RF
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
#Avg Type: Log-Pwr
Avg|Hold:>1/1
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Mkr2 13.185 GHz
-61.650 dBm
Start 10.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 15.000 GHz
#Sweep 500 ms (1001 pts)
1 N 1 f 11.280 GHz -62.437 dBm
2 N 1 f 13.185 GHz -61.650 dBm
Frequency
Auto Tune
Center Freq
12.500000000 GHz
Start Freq
10.000000000 GHz
Stop Freq
15.000000000 GHz
CF Step
500.000000 MHz
Auto
Man
Freq Offset
0 Hz


Agilent Spectrum Analyzer - Swept SA
08:50:35 AM Feb 16, 2009
Input: RF
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
#Avg Type: Log-Pwr
Avg|Hold:>1/1
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Mkr3 18.800 GHz
-58.750 dBm
Start 15.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 20.000 GHz
#Sweep 500 ms (1001 pts)
1 N 1 f 15.040 GHz -61.232 dBm
2 N 1 f 16.920 GHz -60.147 dBm
3 N 1 f 18.800 GHz -58.750 dBm
Frequency
Auto Tune
Center Freq
17.500000000 GHz
Start Freq
15.000000000 GHz
Stop Freq
20.000000000 GHz
CF Step
500.000000 MHz
Auto
Man
Freq Offset
0 Hz

Product	HSUPA PCI Express mini card module		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2009/02/18	Test Site	OATS 3
Test Condition	Channel 189 (GSM 850 GPRS)	Test Range	30MHz~20GHz

Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)

Horizontal Emissions

1672.8	-48	-48.44	1.41	9.8	-40.05	-13
2509.2	-54.79	-53.98	1.56	10.6	-44.94	-13
3345.6	-57.7	-57.48	2.01	12.3	-47.19	-13
4182	-56.98	-52.78	2.74	12.6	-42.92	-13
5018.4	-60.94	-56.65	2.64	12.7	-46.59	-13
5854.8	-56.56	-47.21	2.36	13	-36.57	-13
6691.2	-61.88	-55.62	3.16	12.1	-46.68	-13
7527.6	-62.65	-53.22	3.3	11.5	-45.02	-13
8364	-61.82	-51.21	3.16	11.5	-42.87	-13

Vertical Emissions

1672.8	-44.82	-44.91	1.41	9.8	-36.52	-13
2509.2	-59.9	-61.69	1.56	10.6	-52.65	-13
3345.6	-55.81	-54.62	2.01	12.3	-44.33	-13
4182	-58.48	-55.91	2.74	12.6	-46.05	-13
5018.4	-54.01	-44.93	2.64	12.7	-34.87	-13
5854.8	-59.36	-52.18	2.36	13	-41.54	-13
6691.2	-55.85	-44.75	3.16	12.1	-35.81	-13
7527.6	-55.29	-39.52	3.3	11.5	-31.32	-13
8364	-57.75	-44.81	3.16	11.5	-36.47	-13

Note:

1. Receiver setting (Peak Detector) : RBW:3MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss

Product	HSUPA PCI Express mini card module		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2009/02/18	Test Site	OATS 3
Test Condition	Channel 661 (PCS1900 GPRS)	Test Range	30MHz~20GHz

Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)
Horizontal Emissions						
3760	-54.610	-56.260	1.41	12.6	-45.070	-13
5640	-51.640	-48.634	1.56	13.1	-37.094	-13
7520	-51.440	-42.080	2.01	11.5	-32.590	-13
9400	-61.020	-46.103	2.74	12	-36.843	-13
11280	-64.880	-51.682	2.64	12	-42.322	-13
13160	-63.240	-50.758	2.36	13.3	-39.818	-13
Vertical Emissions						
3760	-48.470	-50.402	1.41	12.6	-39.212	-13
5640	-47.050	-44.470	1.56	13.1	-32.930	-13
7520	-50.810	-41.754	2.01	11.5	-32.264	-13
9400	-61.270	-46.378	2.74	12	-37.118	-13
11280	-63.580	-50.848	2.64	12	-41.488	-13
13160	-63.760	-51.576	2.36	13.3	-40.636	-13

Note:

1. Receiver setting (Peak Detector) : RBW:3MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 12GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	HSUPA PCI Express mini card module		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2009/02/18	Test Site	OATS 3
Test Condition	Channel 189 (GSM 850 EGPRS)	Test Range	30MHz~20GHz

Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)
Horizontal Emissions						
1672.8	-52.9	-55.49	1.41	9.8	-47.10	-13
2509.2	-59.57	-61.73	1.56	10.6	-52.69	-13
3345.6	-59.6	-60.61	2.01	12.3	-50.32	-13
4182	-60.8	-60.16	2.74	12.6	-50.30	-13
5018.4	-61.39	-57.50	2.64	12.7	-47.44	-13
5854.8	-60.72	-55.16	2.36	13	-44.52	-13
6691.2	-60.86	-53.43	3.16	12.1	-44.49	-13
7527.6	-62.44	-52.76	3.3	11.5	-44.56	-13
8364	-60.28	-48.44	3.16	11.5	-40.10	-13
Vertical Emissions						
1672.8	-47.9	-48.72	1.41	9.8	-40.33	-13
2509.2	-60.14	-61.94	1.56	10.6	-52.90	-13
3345.6	-57.91	-58.36	2.01	12.3	-48.07	-13
4182	-59.38	-57.61	2.74	12.6	-47.75	-13
5018.4	-57.63	-50.04	2.64	12.7	-39.98	-13
5854.8	-60.29	-53.76	2.36	13	-43.12	-13
6691.2	-59.42	-50.00	3.16	12.1	-41.06	-13
7527.6	-58.98	-46.84	3.3	11.5	-38.64	-13
8364	-57.56	-44.52	3.16	11.5	-36.18	-13

Note:

1. Receiver setting (Peak Detector) : RBW:3MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss

Product	HSUPA PCI Express mini card module		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2009/02/18	Test Site	OATS 3
Test Condition	Channel 661 (PCS1900 EGPRS)	Test Range	30MHz~20GHz

Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)
Horizontal Emissions						
3760	-56.940	-58.872	1.41	9.8	-47.682	-13
5640	-53.420	-50.840	1.56	10.6	-39.300	-13
7520	-56.270	-47.214	2.01	12.3	-37.724	-13
9400	-61.490	-46.598	2.74	12.6	-37.338	-13
11280	-62.730	-49.998	2.64	12.7	-40.638	-13
Vertical Emissions						
3760	-48.690	-50.622	1.41	9.8	-39.432	-13
5640	-47.960	-45.380	1.56	10.6	-33.840	-13
7520	-57.300	-48.244	2.01	12.3	-38.754	-13
9400	-62.570	-47.678	2.74	12.6	-38.418	-13
11280	-63.870	-51.138	2.64	12.7	-41.778	-13

Note:

1. Receiver setting (Peak Detector) : RBW:3MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 12GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	HSUPA PCI Express mini card module		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2009/02/18	Test Site	OATS 3
Test Condition	Channel 4183 (WCDMA BAND V)	Test Range	30MHz~20GHz

Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)
Horizontal Emissions						
1762	-51.97	-54.06	1.41	9.8	-45.67	-13
2644	-57.84	-59.24	1.56	10.6	-50.20	-13
3345.6	-58.68	-59.23	2.01	12.3	-48.94	-13
4182	-59.00	-56.33	2.74	12.6	-46.47	-13
5018.4	-61.96	-58.58	2.64	12.7	-48.52	-13
5854.8	-61.44	-56.81	2.36	13	-46.17	-13
6691.2	-61.78	-55.29	3.16	12.1	-46.35	-13
7527.6	-63.20	-54.44	3.3	11.5	-46.24	-13
8364	-63.21	-53.44	3.16	11.5	-45.10	-13
Vertical Emissions						
1763.2	-48.69	-49.70	1.41	9.8	-41.31	-13
2641.8	-55.95	-56.22	1.56	10.6	-47.18	-13
3346.4	-56.73	-56.20	2.01	12.3	-45.91	-13
4182	-59.65	-58.13	2.74	12.6	-48.27	-13
5018.4	-60.4	-55.77	2.64	12.7	-45.71	-13
5854.8	-60.3	-53.78	2.36	13	-43.14	-13
6691.2	-61.6	-59.26	3.16	12.1	-50.32	-13
7527.6	-63.17	-60.77	3.3	11.5	-52.57	-13
8364	-62.79	-57.14	3.16	11.5	-48.80	-13

Note:

1. Receiver setting (Peak Detector) : RBW:3MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss

Product	HSUPA PCI Express mini card module		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2009/02/18	Test Site	OATS 3
Test Condition	Channel 4183 (WCDMA BAND V HSDPA)	Test Range	30MHz~20GHz

Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)
Horizontal Emissions						
1763.2	-50.62	-52.03	1.41	9.8	-43.64	-13
2641.8	-46.25	-42.73	1.56	10.6	-33.69	-13
3346.4	-59.97	-61.08	2.01	12.3	-50.79	-13
4182	-59.3	-56.98	2.74	12.6	-47.12	-13
5018.4	-61.01	-56.78	2.64	12.7	-46.72	-13
5854.8	-61.52	-57.00	2.36	13	-46.36	-13
6691.2	-60.97	-53.64	3.16	12.1	-44.70	-13
7527.6	-62.73	-53.40	3.3	11.5	-45.20	-13
8364	-62.42	-52.17	3.16	11.5	-43.83	-13
Vertical Emissions						
1763.2	-34.56	-33.62	1.41	9.8	-25.23	-13
2644	-35.57	-31.23	1.56	10.6	-22.19	-13
3526	-55.54	-54.23	2.01	12.3	-43.94	-13
4182	-60.2	-59.17	2.74	12.6	-49.31	-13
5018.4	-60.94	-57.05	2.64	12.7	-46.99	-13
5854.8	-60.59	-54.27	2.36	13	-43.63	-13
6691.2	-61.56	-59.12	3.16	12.1	-50.18	-13
7527.6	-63.07	-60.52	3.3	11.5	-52.32	-13
8364	-62.98	-57.65	3.16	11.5	-49.31	-13

Note:

1. Receiver setting (Peak Detector) : RBW:3MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss

Product	HSUPA PCI Express mini card module		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2009/02/18	Test Site	OATS 3
Test Condition	Channel 4183 (WCDMA BAND V HSUPA)	Test Range	30MHz~20GHz

Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)

Horizontal Emissions

1763.2	-45.42	-45.29	1.41	9.8	-36.90	-13
2641.8	-41.42	-37.29	1.56	10.6	-28.25	-13
3346.4	-60.06	-61.19	2.01	12.3	-50.90	-13
4182	-60.4	-59.35	2.74	12.6	-49.49	-13
5018.4	-62.19	-59.02	2.64	12.7	-48.96	-13
5854.8	-61.63	-57.25	2.36	13	-46.61	-13
6691.2	-60.68	-53.09	3.16	12.1	-44.15	-13
7527.6	-62.72	-53.38	3.3	11.5	-45.18	-13
8364	-62.12	-51.69	3.16	11.5	-43.35	-13

Vertical Emissions

1763.2	-40.29	-39.67	1.41	9.8	-31.28	-13
2641.8	-32.36	-27.91	1.56	10.6	-18.87	-13
3526	-55.5	-54.17	2.01	12.3	-43.88	-13
4182	-59.51	-57.86	2.74	12.6	-48.00	-13
5018.4	-61.03	-57.26	2.64	12.7	-47.20	-13
5854.8	-59.91	-53.12	2.36	13	-42.48	-13
6691.2	-61.2	-57.83	3.16	12.1	-48.89	-13
7527.6	-62.13	-54.59	3.3	11.5	-46.39	-13
8364	-62.7	-56.90	3.16	11.5	-48.56	-13

Note:

1. Receiver setting (Peak Detector) : RBW:3MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss

Product	HSUPA PCI Express mini card module		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2009/02/18	Test Site	OATS 3
Test Condition	Channel 9400 (WCDMA BAND II)	Test Range	30MHz~20GHz

Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)
Horizontal Emissions						
3760	-56.750	-58.400	1.41	12.6	-47.210	-13
5640	-62.250	-59.244	1.56	13.1	-47.704	-13
7520	-62.650	-53.290	2.01	11.5	-43.800	-13
9400	-64.010	-49.093	2.74	12	-39.833	-13
11280	-63.710	-50.512	2.64	12	-41.152	-13
Vertical Emissions						
3760	-51.660	-53.592	1.41	12.6	-42.402	-13
5640	-61.680	-59.100	1.56	13.1	-47.560	-13
7520	-60.420	-51.364	2.01	11.5	-41.874	-13
9400	-59.870	-44.978	2.74	12	-35.718	-13
11280	-61.410	-48.678	2.64	12	-39.318	-13

Note:

1. Receiver setting (Peak Detector) : RBW:3MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 12GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	HSUPA PCI Express mini card module		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2009/02/18	Test Site	OATS 3
Test Condition	Channel 9400 (WCDMA BAND II HSDPA)	Test Range	30MHz~20GHz

Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)
Horizontal Emissions						
3760	-55.930	-57.580	1.41	12.6	-46.390	-13
5640	-62.460	-59.454	1.56	13.1	-47.914	-13
7520	-63.260	-53.900	2.01	11.5	-44.410	-13
9400	-63.600	-48.683	2.74	12	-39.423	-13
11280	-64.050	-50.852	2.64	12	-41.492	-13
Vertical Emissions						
3760	-52.130	-54.062	1.41	12.6	-42.872	-13
5640	-61.210	-58.630	1.56	13.1	-47.090	-13
7520	-61.310	-52.254	2.01	11.5	-42.764	-13
9400	-59.910	-45.018	2.74	12	-35.758	-13
11280	-62.420	-49.688	2.64	12	-40.328	-13

Note:

1. Receiver setting (Peak Detector) : RBW:3MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 12GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	HSUPA PCI Express mini card module		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2009/02/18	Test Site	OATS 3
Test Condition	Channel 9400 (WCDMA BAND II HSUPA)	Test Range	30MHz~20GHz

Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)

Horizontal Emissions

3760	-56.200	-57.850	1.41	12.6	-46.660	-13
5640	-62.620	-59.614	1.56	13.1	-48.074	-13
7520	-62.620	-53.260	2.01	11.5	-43.770	-13
9400	-64.170	-49.253	2.74	12	-39.993	-13
11280	-62.940	-49.742	2.64	12	-40.382	-13

Vertical Emissions

3760	-51.950	-53.882	1.41	12.6	-42.692	-13
5640	-62.090	-59.510	1.56	13.1	-47.970	-13
7520	-60.760	-51.704	2.01	11.5	-42.214	-13
9400	-60.080	-45.188	2.74	12	-35.928	-13
11280	-58.900	-46.168	2.64	12	-36.808	-13

Note:

1. Receiver setting (Peak Detector) : RBW:3MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 12GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

6. Frequency Stability Under Temperature & Voltage Variations

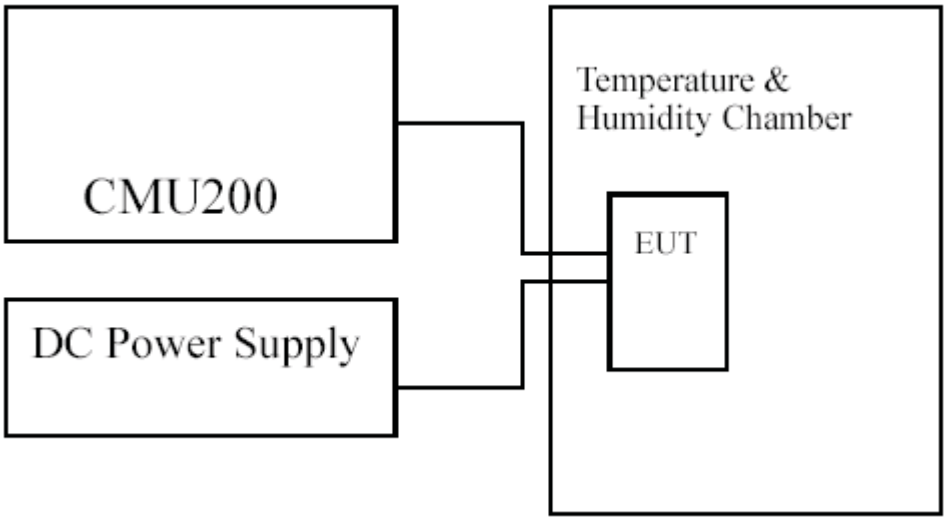
6.1. Test Equipment

The following test equipments are used during the frequency stability test:

Equipment	Manufacturer	Model No./Serial No.	Last Cal.
Universal Radio Communication Tester	R & S	CMU200 / 104846	Apr., 2008
Standard Temperature & Humidity Chamber	WIT	TH-1S-B / 108210	Aug., 2008
DC Power Supply	Topward	6303D / 670302	N/A

Note: All equipments upon which need to be calibrated are with calibration period of 1 year

6.2. Test Setup



6.3. Limits

Limit	**<±2.5ppm**

6.4. Test Procedure

The frequency stability of transmitter is measured by:

(a) Temperature: The temperature is varied from -30°C to 50°C in 10°C increament using a standard temperature & Humidity chamber.

(b) Primary Supply Voltage: The primary supply voltage is varied 85% to 115% of the nominal value for non hand-carried equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating endpoint which shall be specified by the manufacturer.

The EUT was connected via the base station simulator. Universal Radio Communication Tester, (CMU200), was used to measure The Frequency Error. The maximum result of measurements was recorded.

6.5. Test Specification

According to Part 2.1055,22.355,24.235

6.6. Test Result of Frequency Stability Under Temperature Variations

Product	HSUPA PCI Express mini card module		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2009/02/18	Test Site	CTR
Test Condition	GSM 850 GPRS / Channel 189	Test Range	-30℃~+50℃

Temperature Interval(℃)	Test Frequency (GHz)	Deviation (Hz)	Limit (KHz)
-30	0.836	-44	±2.09
-20	0.836	-37	±2.09
-10	0.836	24	±2.09
0	0.836	28	±2.09
10	0.836	-29	±2.09
20	0.836	-33	±2.09
30	0.836	-32	±2.09
40	0.836	-36	±2.09
50	0.836	-39	±2.09

.Product	HSUPA PCI Express mini card module		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2009/02/18	Test Site	CTR
Test Condition	PCS 1900 GPRS / Channel 661	Test Range	-30℃~+50℃

Temperature Interval(℃)	Test Frequency (GHz)	Deviation (Hz)	Limit (KHz)
-30	1.88	-82	±4.7
-20	1.88	-74	±4.7
-10	1.88	-31	±4.7
0	1.88	-62	±4.7
10	1.88	-32	±4.7
20	1.88	-58	±4.7
30	1.88	-43	±4.7
40	1.88	-84	±4.7
50	1.88	-43	±4.7

Product	HSUPA PCI Express mini card module		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2009/02/18	Test Site	CTR
Test Condition	GSM 850 EGPRS / Channel 189	Test Range	-30℃~+50℃

Temperature Interval(℃)	Test Frequency (GHz)	Deviation (Hz)	Limit (KHz)
-30	0.836	-44	±2.09
-20	0.836	46	±2.09
-10	0.836	48	±2.09
0	0.836	-35	±2.09
10	0.836	-52	±2.09
20	0.836	-24	±2.09
30	0.836	-37	±2.09
40	0.836	-29	±2.09
50	0.836	-35	±2.09

.Product	HSUPA PCI Express mini card module		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2009/02/18	Test Site	CTR
Test Condition	PCS 1900 EGPRS / Channel 661	Test Range	-30℃~+50℃

Temperature Interval(℃)	Test Frequency (GHz)	Deviation (Hz)	Limit (KHz)
-30	1.88	-64	±4.7
-20	1.88	-61	±4.7
-10	1.88	32	±4.7
0	1.88	-73	±4.7
10	1.88	-59	±4.7
20	1.88	-67	±4.7
30	1.88	-62	±4.7
40	1.88	-67	±4.7
50	1.88	-81	±4.7

Product	HSUPA PCI Express mini card module		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2009/02/18	Test Site	CTR
Test Condition	WCDMA BAND V / Channel 4183	Test Range	-30℃~+50℃

Temperature Interval(℃)	Test Frequency (GHz)	Deviation (Hz)	Limit (KHz)
-30	0.836	18	±2.09
-20	0.836	20	±2.09
-10	0.836	-16	±2.09
0	0.836	-19	±2.09
10	0.836	-23	±2.09
20	0.836	-16	±2.09
30	0.836	14	±2.09
40	0.836	-13	±2.09
50	0.836	-13	±2.09

.Product	HSUPA PCI Express mini card module		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2009/02/18	Test Site	CTR
Test Condition	WCDMA BAND V HSDPA / Channel 4183	Test Range	-30℃~+50℃

Temperature Interval(℃)	Test Frequency (GHz)	Deviation (Hz)	Limit (KHz)
-30	0.836	17	±2.09
-20	0.836	25	±2.09
-10	0.836	28	±2.09
0	0.836	-19	±2.09
10	0.836	-27	±2.09
20	0.836	-20	±2.09
30	0.836	-17	±2.09
40	0.836	-27	±2.09
50	0.836	-19	±2.09

.Product	HSUPA PCI Express mini card module		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2009/02/18	Test Site	CTR
Test Condition	WCDMA BAND V HSUPA / Channel 4183	Test Range	-30℃~+50℃

Temperature Interval(℃)	Test Frequency (GHz)	Deviation (Hz)	Limit (KHz)
-30	0.836	17	±2.09
-20	0.836	26	±2.09
-10	0.836	31	±2.09
0	0.836	22	±2.09
10	0.836	20	±2.09
20	0.836	-24	±2.09
30	0.836	-22	±2.09
40	0.836	-17	±2.09
50	0.836	19	±2.09

Product	HSUPA PCI Express mini card module		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2009/02/18	Test Site	CTR
Test Condition	WCDMA BAND II / Channel 9400	Test Range	-30℃~+50℃

Temperature Interval(℃)	Test Frequency (GHz)	Deviation (Hz)	Limit (KHz)
-30	1.88	-46	±4.7
-20	1.88	26	±4.7
-10	1.88	-46	±4.7
0	1.88	-33	±4.7
10	1.88	-26	±4.7
20	1.88	28	±4.7
30	1.88	-41	±4.7
40	1.88	-30	±4.7
50	1.88	29	±4.7

.Product	HSUPA PCI Express mini card module		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2009/02/18	Test Site	CTR
Test Condition	WCDMA BAND II HSDPA / Channel 9400	Test Range	-30℃~+50℃

Temperature Interval(℃)	Test Frequency (GHz)	Deviation (Hz)	Limit (KHz)
-30	1.88	-26	±4.7
-20	1.88	-29	±4.7
-10	1.88	-40	±4.7
0	1.88	-34	±4.7
10	1.88	-40	±4.7
20	1.88	-27	±4.7
30	1.88	34	±4.7
40	1.88	-26	±4.7
50	1.88	29	±4.7

.Product	HSUPA PCI Express mini card module		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2009/02/18	Test Site	CTR
Test Condition	WCDMA BAND II HSUPA / Channel 9400	Test Range	-30℃~+50℃

Temperature Interval(℃)	Test Frequency (GHz)	Deviation (Hz)	Limit (KHz)
-30	1.88	-31	±4.7
-20	1.88	-29	±4.7
-10	1.88	-32	±4.7
0	1.88	38	±4.7
10	1.88	-35	±4.7
20	1.88	33	±4.7
30	1.88	-44	±4.7
40	1.88	-35	±4.7
50	1.88	28	±4.7

7. EMI Reduction Method During Compliance Testing

No modification was made during testing.