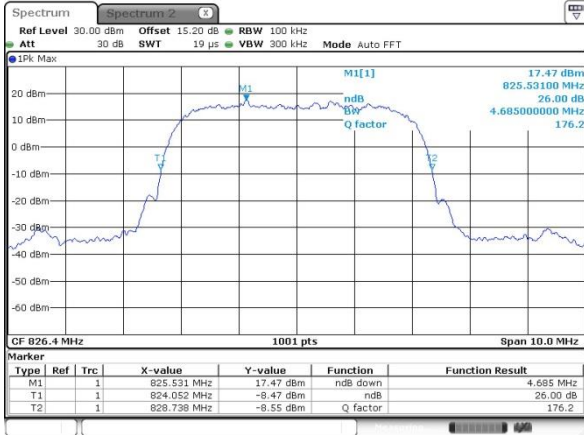




WCDMA Band V (RMC 12.2Kbps)

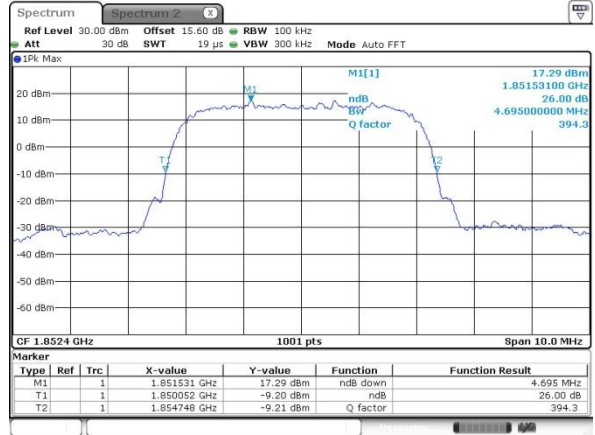
Lowest Channel



Date: 3..JAN.2003 03:25:08

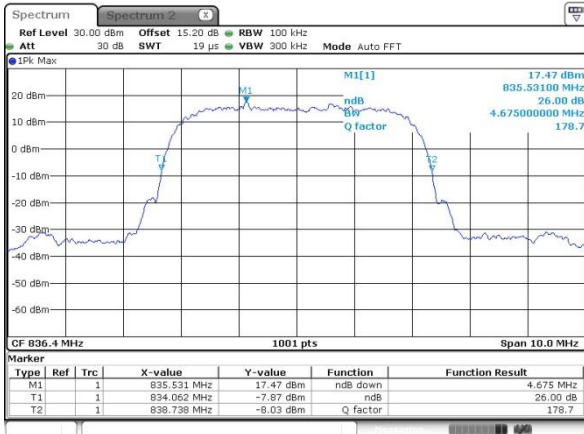
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



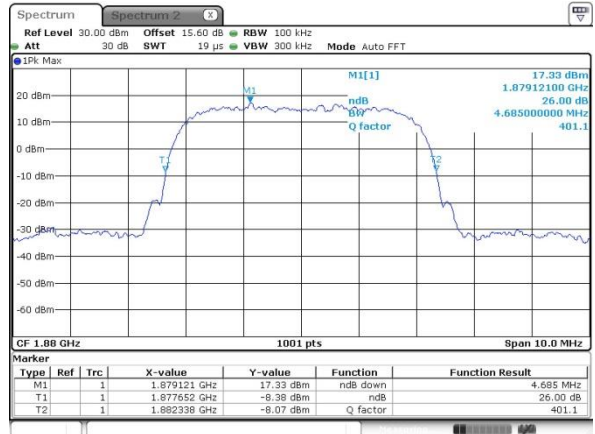
Date: 3..JAN.2003 02:34:36

Middle Channel



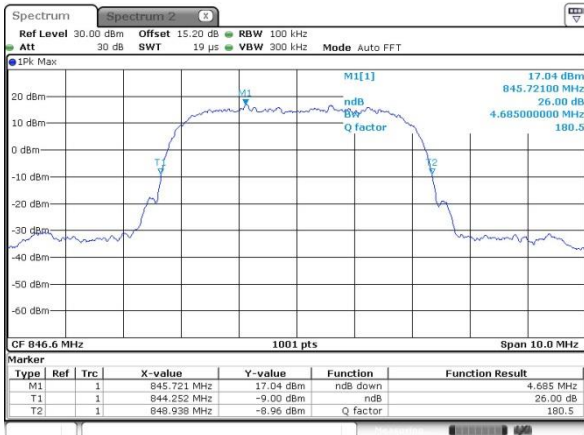
Date: 3..JAN.2003 03:25:36

Middle Channel



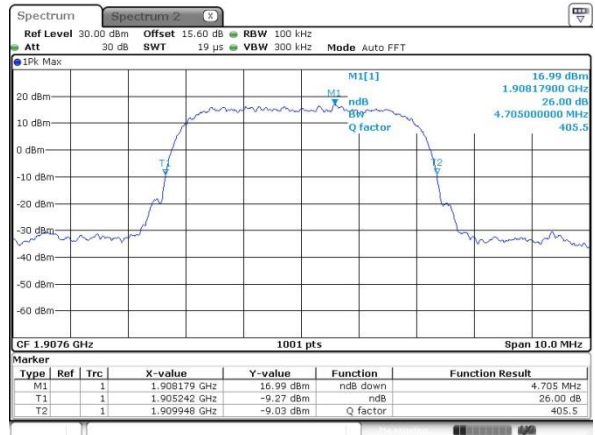
Date: 3..JAN.2003 02:34:58

Highest Channel



Date: 3..JAN.2003 03:26:00

Highest Channel

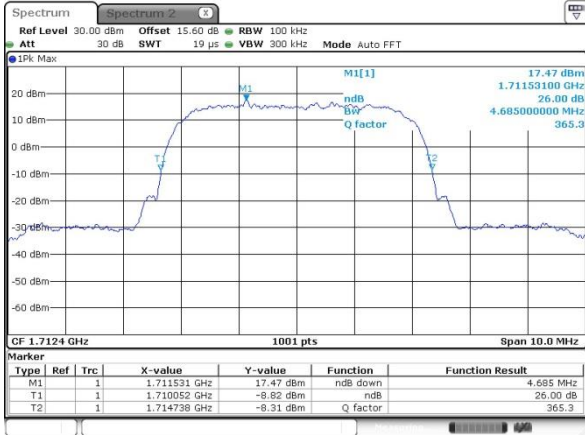


Date: 3..JAN.2003 02:35:31

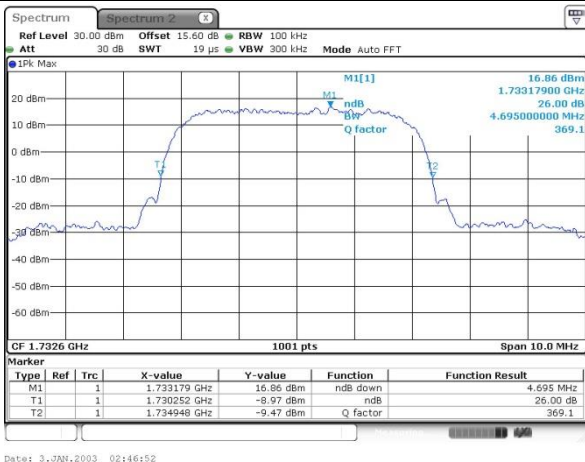


WCDMA Band IV (RMC 12.2Kbps)

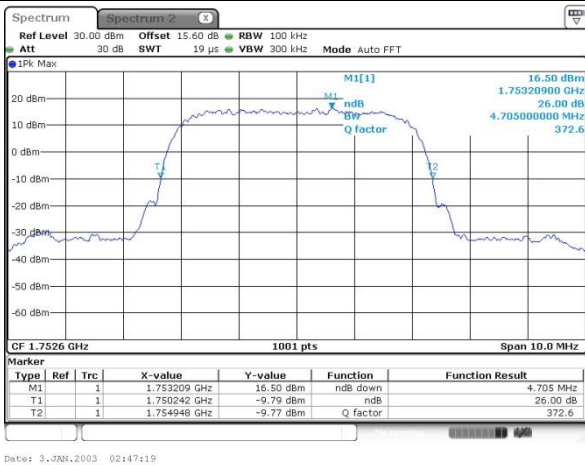
Lowest Channel



Middle Channel



Highest Channel





Occupied Bandwidth

Mode	WCDMA Band V(MHz)	WCDMA Band II(MHz)	WCDMA Band IV(MHz)
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.156	4.146	4.136
Middle CH	4.146	4.146	4.146
Highest CH	4.126	4.146	4.146



WCDMA Band V (RMC 12.2Kbps)

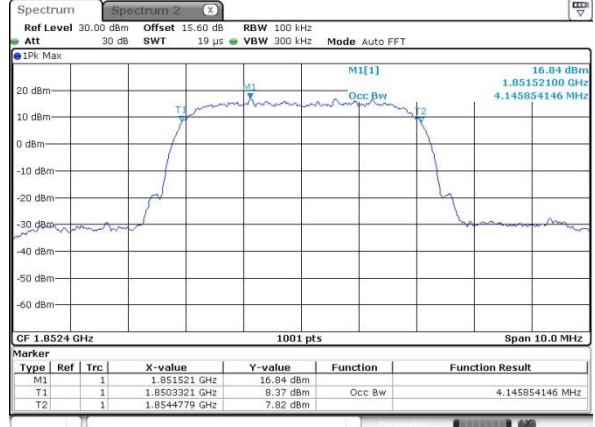
Lowest Channel



Date: 3..JAN.2003 03:13:53

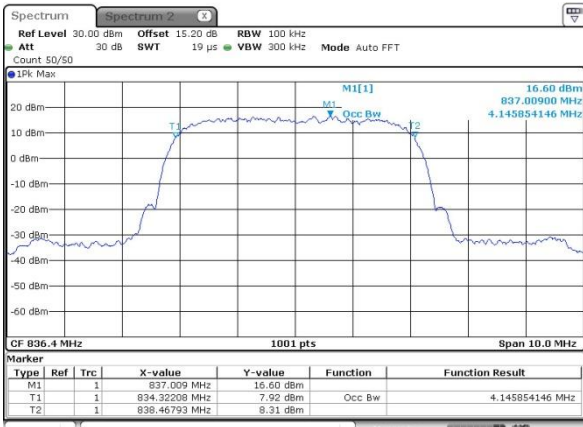
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



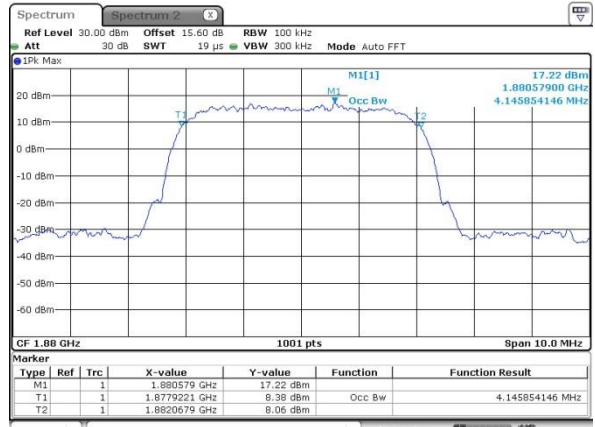
Date: 3..JAN.2003 02:37:16

Middle Channel



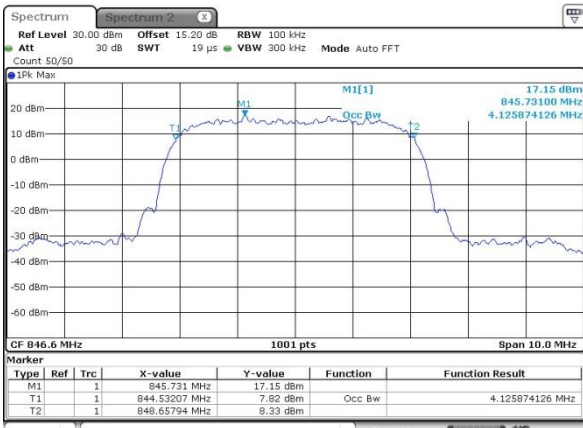
Date: 3..JAN.2003 03:14:10

Middle Channel



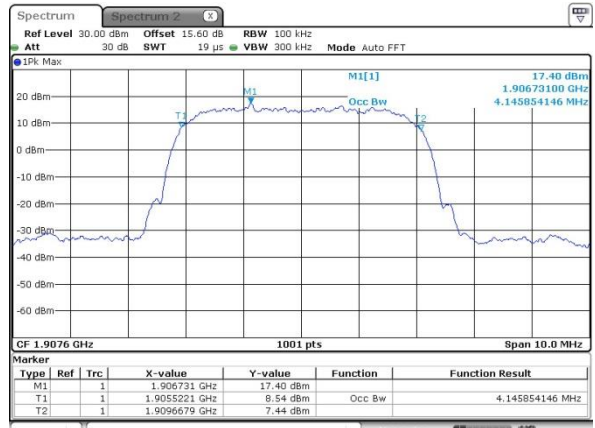
Date: 3..JAN.2003 02:37:36

Highest Channel



Date: 3..JAN.2003 03:14:28

Highest Channel

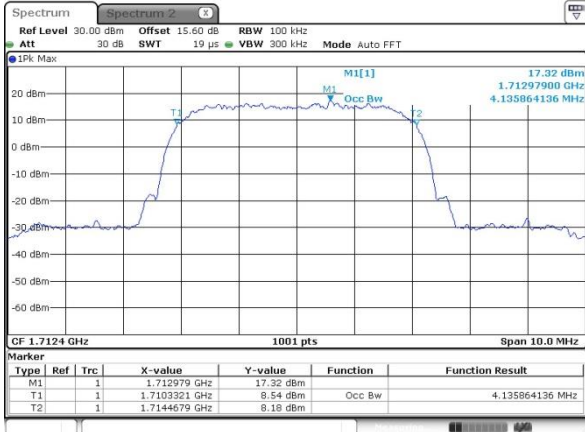


Date: 3..JAN.2003 02:37:59

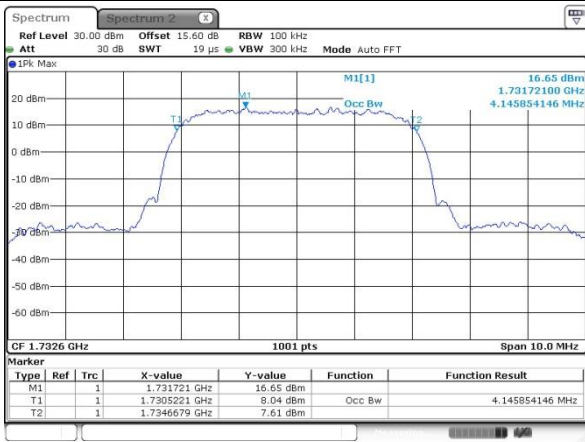


WCDMA Band IV (RMC 12.2Kbps)

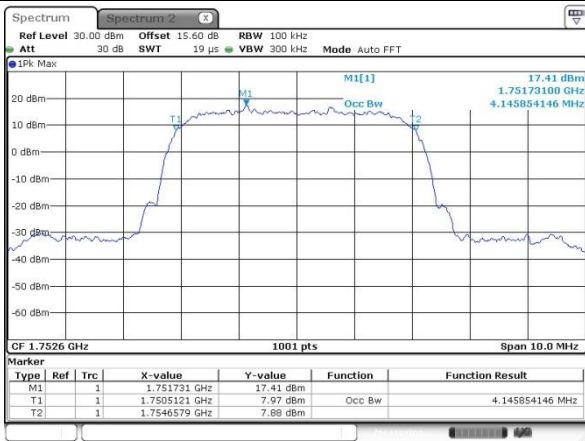
Lowest Channel



Middle Channel

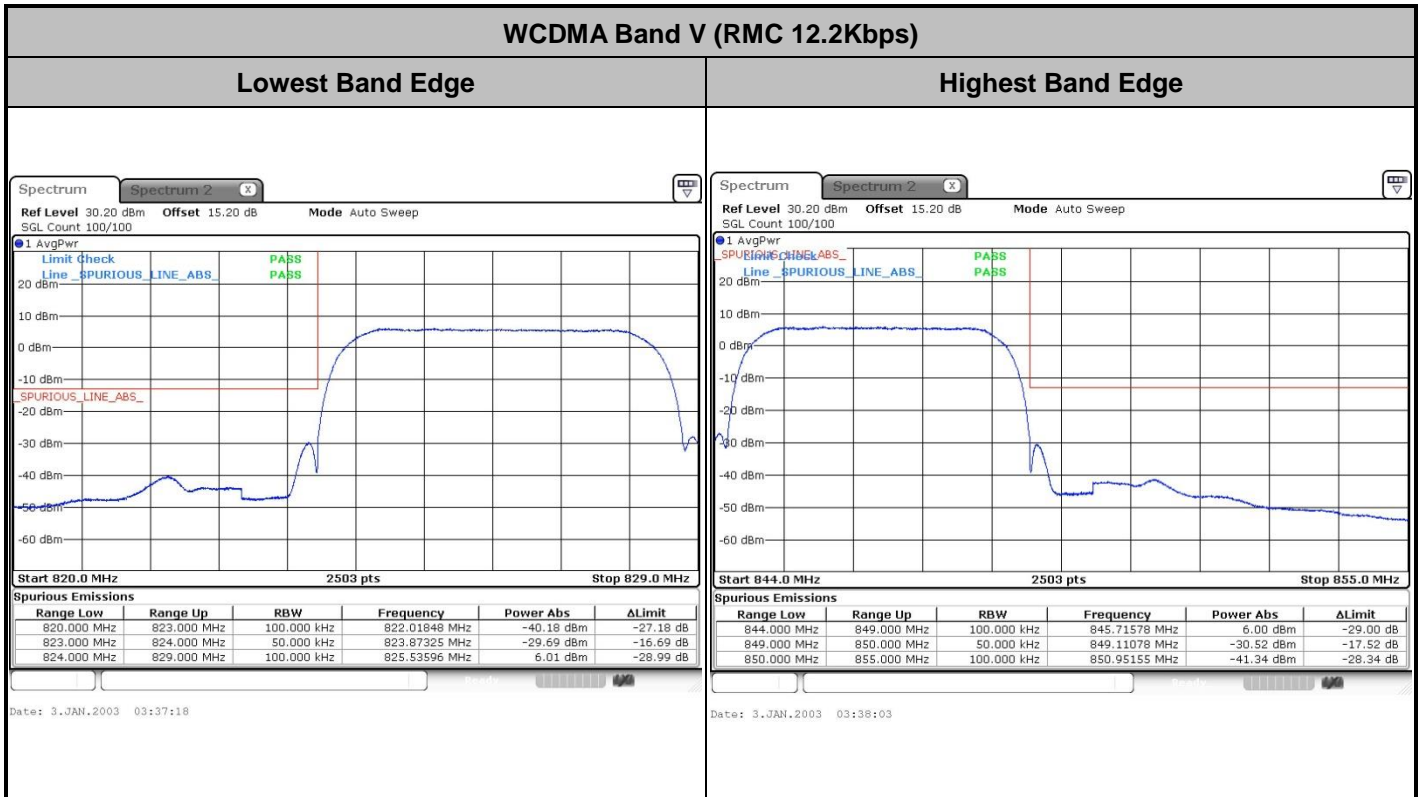


Highest Channel





Conducted Band Edge

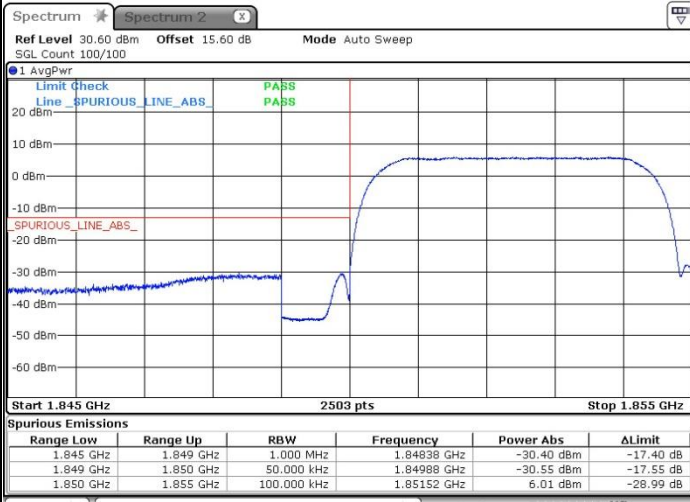




WCDMA Band II (RMC 12.2Kbps)

Lowest Band Edge

Highest Band Edge



Date: 3.JAN.2003 02:38:55

Date: 3.JAN.2003 02:42:21

WCDMA Band IV (RMC 12.2Kbps)

Lowest Band Edge

Highest Band Edge

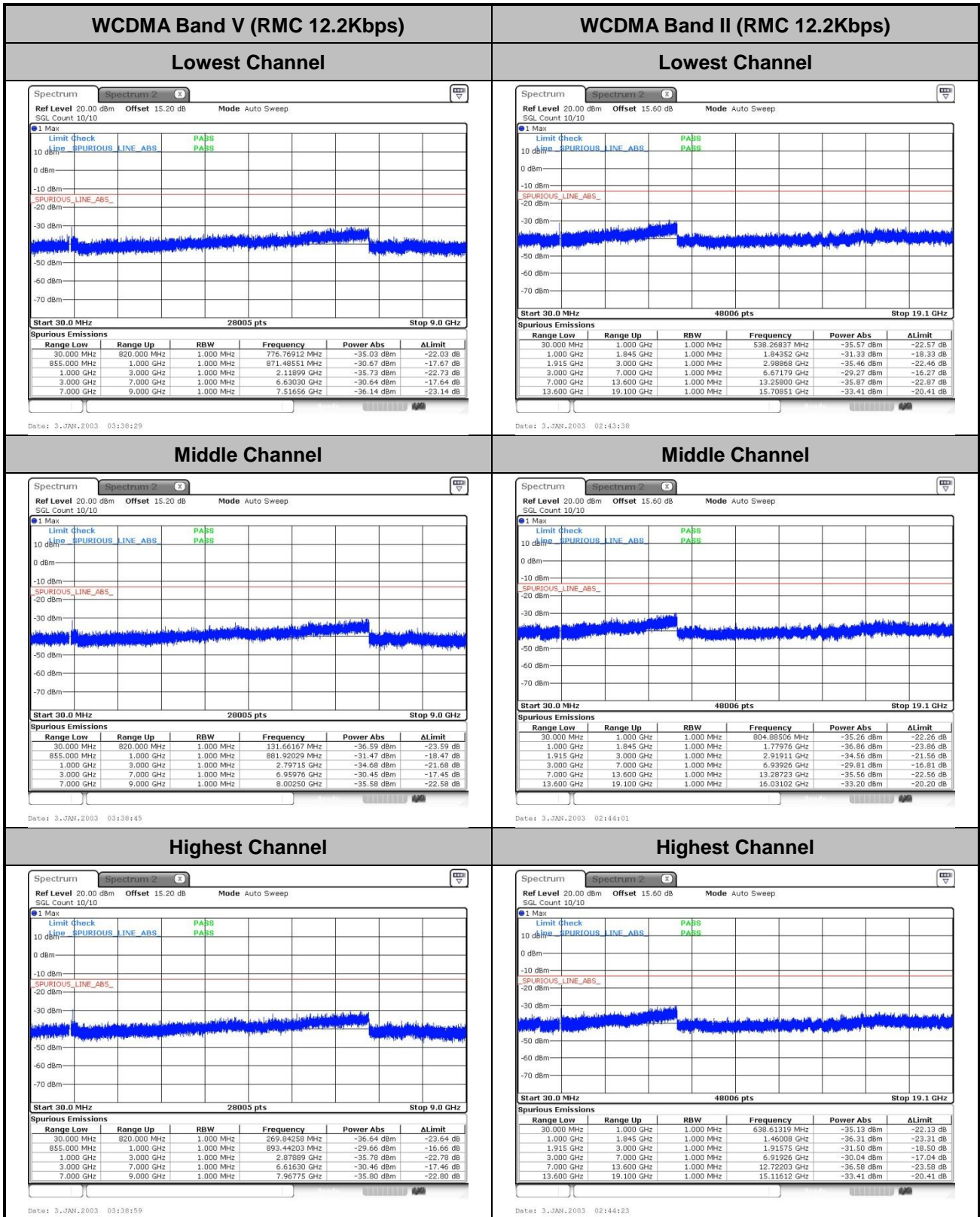


Date: 3.JAN.2003 02:52:05

Date: 3.JAN.2003 02:52:57



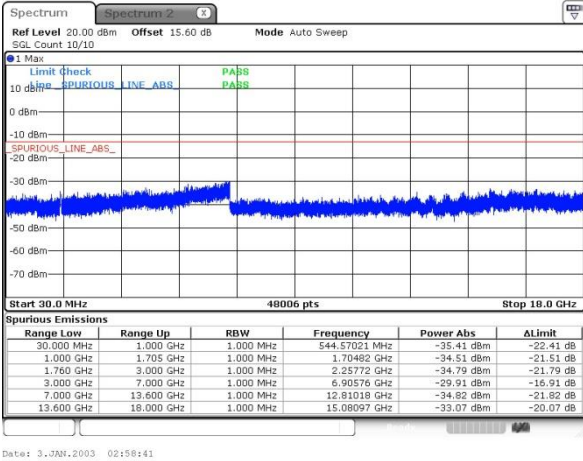
Conducted Spurious Emission



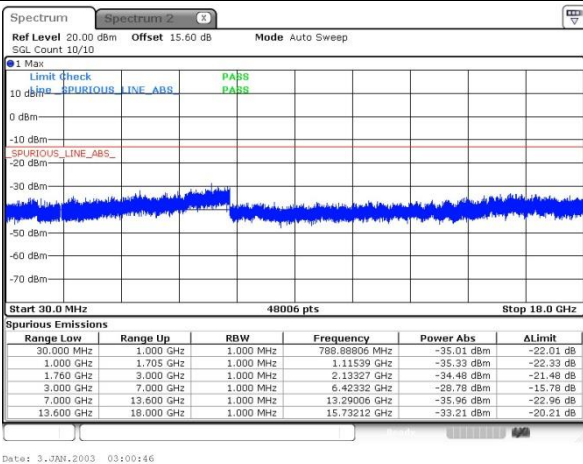


WCDMA Band IV (RMC 12.2Kbps)

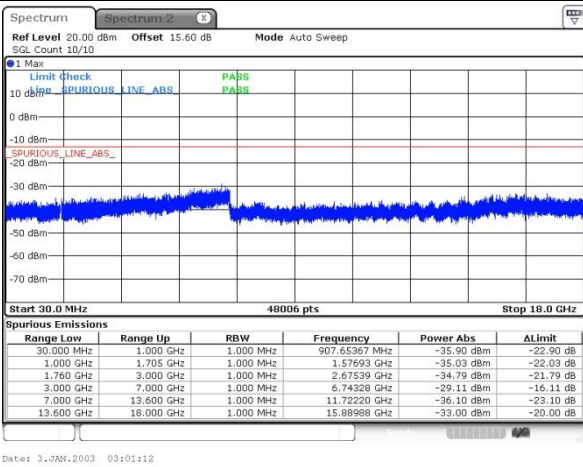
Lowest Channel



Middle Channel



Highest Channel





Frequency Stability

Test Conditions	Middle Channel	WCDMA Band V (RMC 12.2Kbps)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0041	PASS
40	Normal Voltage	0.0358	
30	Normal Voltage	0.0426	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0031	
0	Normal Voltage	0.0352	
-10	Normal Voltage	0.0029	
-20	Normal Voltage	0.0125	
-30	Normal Voltage	0.0451	
20	Maximum Voltage	0.0269	
20	Normal Voltage	0.0126	
20	Battery End Point	0.0247	

Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0156	PASS
40	Normal Voltage	0.0347	
30	Normal Voltage	0.0217	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0059	
0	Normal Voltage	0.0148	
-10	Normal Voltage	0.0273	
-20	Normal Voltage	0.0029	
-30	Normal Voltage	0.0066	
20	Maximum Voltage	0.0128	
20	Normal Voltage	0.0048	
20	Battery End Point	0.0025	



Test Conditions	Middle Channel	WCDMA Band IV (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0074	PASS
40	Normal Voltage	0.0024	
30	Normal Voltage	0.0036	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0048	
0	Normal Voltage	0.0025	
-10	Normal Voltage	0.0044	
-20	Normal Voltage	0.0067	
-30	Normal Voltage	0.0216	
20	Maximum Voltage	0.0475	
20	Normal Voltage	0.0336	
20	Battery End Point	0.0217	

Note:

- 1. Normal Voltage = 3.88 ; Battery End Point (BEP) =3.6. ; Maximum Voltage =4.53V
- 2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	Kuang Jia	Temperature :	21~25°C
		Relative Humidity :	51~53%

Note: Pre-scanned harmonic for the different antennas, we choose the worst antenna mode to perform final test and record in the report.

GSM850 (GSM) Ant.1									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1672.8	-65.64	-13	-52.64	-75.60	-68.89	4.00	9.40	H
	2509.2	-51.97	-13	-38.97	-66.37	-55.54	4.88	10.60	H
	3345.6	-62.30	-13	-49.30	-78.29	-67.23	5.52	12.60	H
	1672.8	-54.01	-13	-41.01	-63.42	-57.26	4.00	9.40	V
	2509.2	-51.01	-13	-38.01	-65.37	-54.58	4.88	10.60	V
	3345.6	-61.21	-13	-48.21	-76.93	-66.14	5.52	12.60	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

GSM850 (EDGE 1 Tx slots) Ant.1									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1672.8	-65.25	-13	-52.25	-75.21	-68.50	4.00	9.40	H
	2509.2	-50.91	-13	-37.91	-65.31	-54.48	4.88	10.60	H
	3345.6	-62.34	-13	-49.34	-78.33	-67.27	5.52	12.60	H
	1672.8	-66.08	-13	-53.08	-75.49	-69.33	4.00	9.40	V
	2509.2	-50.71	-13	-37.71	-65.07	-54.28	4.88	10.60	V
	3345.6	-61.03	-13	-48.03	-76.75	-65.96	5.52	12.60	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



GSM1900 (GSM) Ant.2									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3760	-61.42	-13	-48.42	-80.05	-68.17	5.85	12.60	H
	5640	-57.30	-13	-44.30	-80.56	-63.10	7.30	13.10	H
	7520	-54.87	-13	-41.87	-81.68	-58.02	8.35	11.50	H
	3760	-61.53	-13	-48.53	-80.09	-68.28	5.85	12.60	V
	5640	-57.31	-13	-44.31	-79.82	-63.11	7.30	13.10	V
	7520	-55.04	-13	-42.04	-81.83	-58.19	8.35	11.50	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

GSM1900 (EDGE 1 Tx slots) Ant.2									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3760	-61.66	-13	-48.66	-80.29	-68.41	5.85	12.60	H
	5640	-58.83	-13	-45.83	-82.09	-64.63	7.30	13.10	H
	7520	-55.23	-13	-42.23	-82.04	-58.38	8.35	11.50	H
	3760	-61.68	-13	-48.68	-80.24	-68.43	5.85	12.60	V
	5640	-59.48	-13	-46.48	-81.99	-65.28	7.30	13.10	V
	7520	-55.03	-13	-42.03	-81.82	-58.18	8.35	11.50	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

WCDMA Band V(RMC 12.2Kbps) Ant.1									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1672.8	-65.14	-13	-52.14	-75.10	-68.39	4.00	9.40	H
	2509.2	-63.30	-13	-50.30	-77.70	-66.87	4.88	10.60	H
	3345.6	-62.82	-13	-49.82	-78.81	-67.75	5.52	12.60	H
	1672.8	-65.73	-13	-52.73	-75.14	-68.98	4.00	9.40	V
	2509.2	-63.18	-13	-50.18	-77.54	-66.75	4.88	10.60	V
	3345.6	-62.82	-13	-49.82	-78.54	-67.75	5.52	12.60	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



WCDMA Band II(RMC 12.2Kbps) Ant.2									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3760	-61.39	-13	-48.39	-80.02	-68.14	5.85	12.60	H
	5640	-59.19	-13	-46.19	-82.45	-64.99	7.30	13.10	H
	7520	-55.23	-13	-42.23	-82.04	-58.38	8.35	11.50	H
	3760	-61.78	-13	-48.78	-80.34	-68.53	5.85	12.60	V
	5640	-59.93	-13	-46.93	-82.44	-65.73	7.30	13.10	V
	7520	-55.15	-13	-42.15	-81.94	-58.30	8.35	11.50	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

WCDMA Band IV(RMC 12.2Kbps) Ant.2									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3465.2	-62.25	-13	-49.25	-79.15	-69.10	5.65	12.50	H
	5197.8	-60.83	-13	-47.83	-82.60	-66.50	7.13	12.80	H
	6930.4	-56.75	-13	-43.75	-82.55	-60.15	8.40	11.80	H
	3465.2	-62.25	-13	-49.25	-79.17	-69.10	5.65	12.50	V
	5197.8	-60.37	-13	-47.37	-82.45	-66.04	7.13	12.80	V
	6930.4	-56.20	-13	-43.20	-82.47	-59.60	8.40	11.80	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.