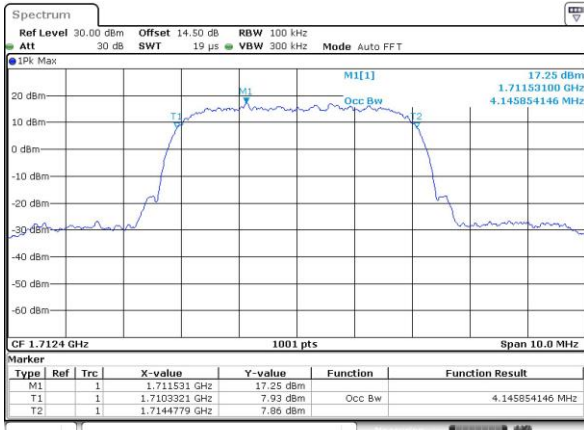




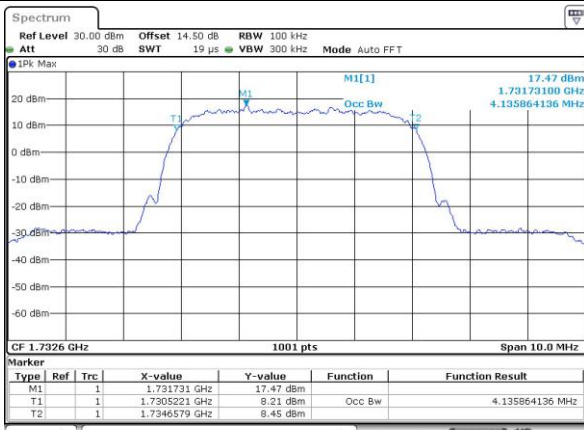
WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



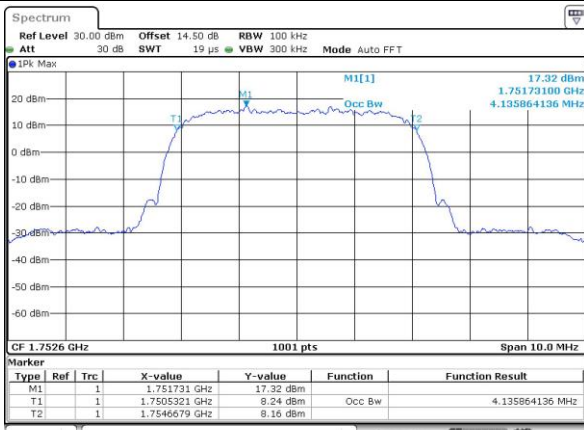
Date: 18, MAY, 2023 11:22:34

Middle Channel



Date: 18, MAY, 2023 11:24:47

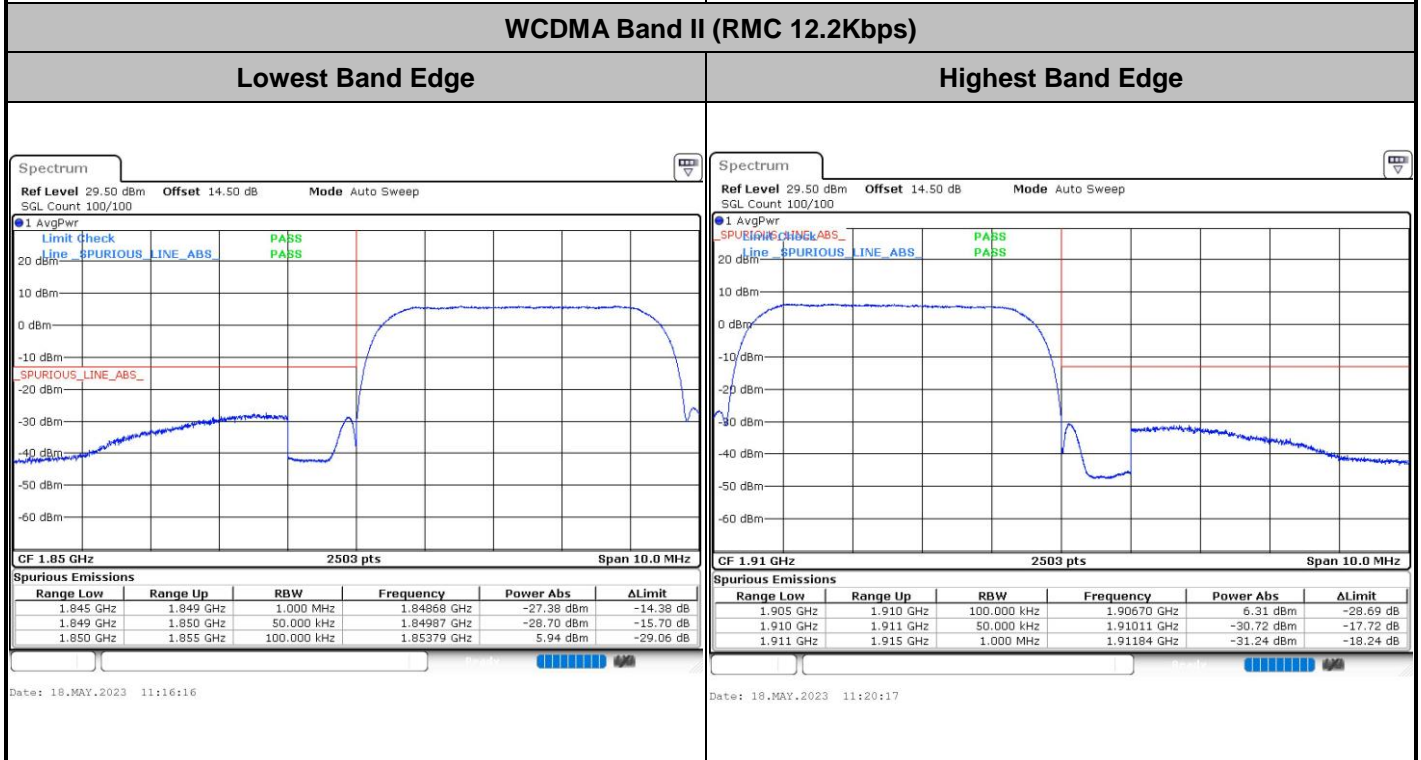
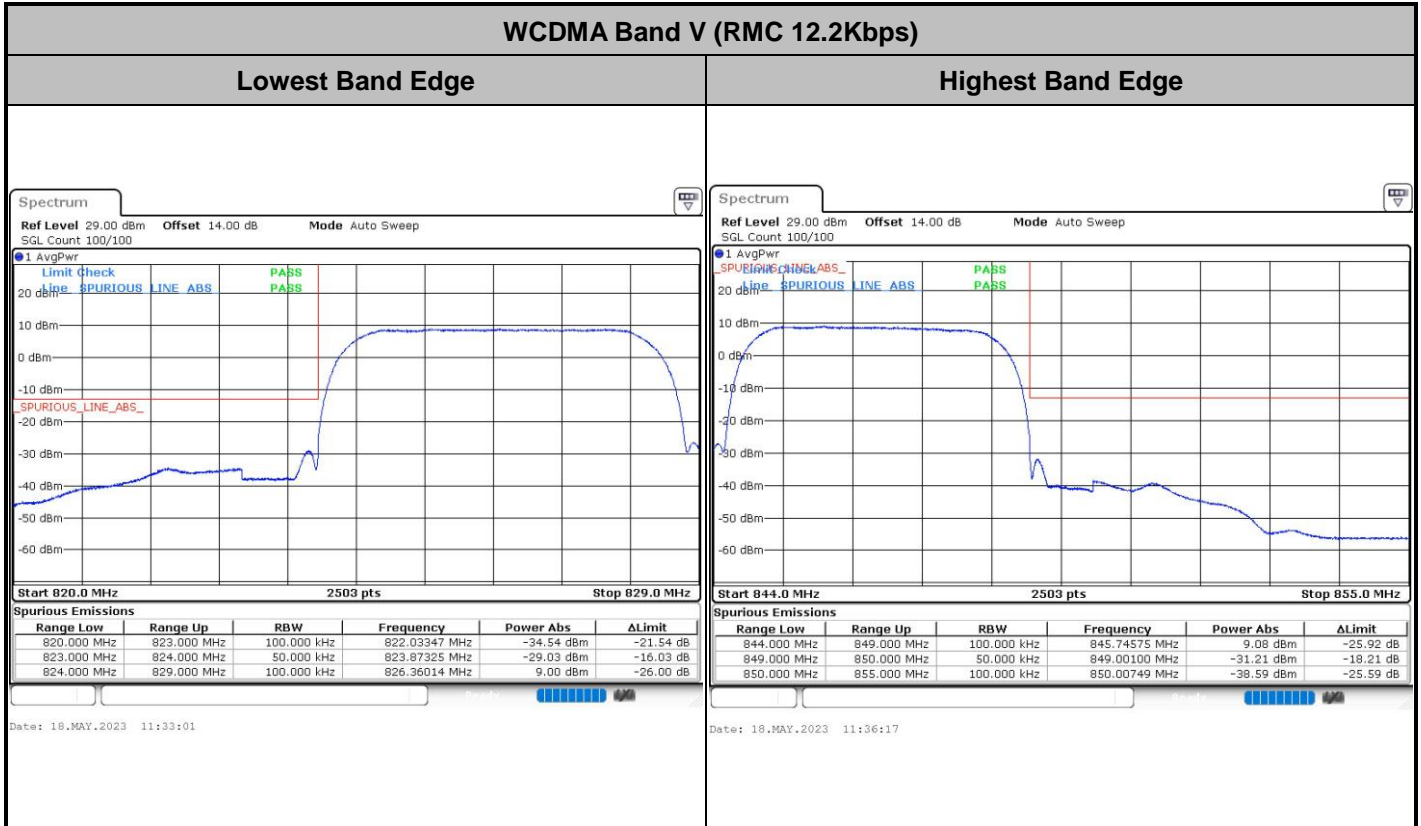
Highest Channel

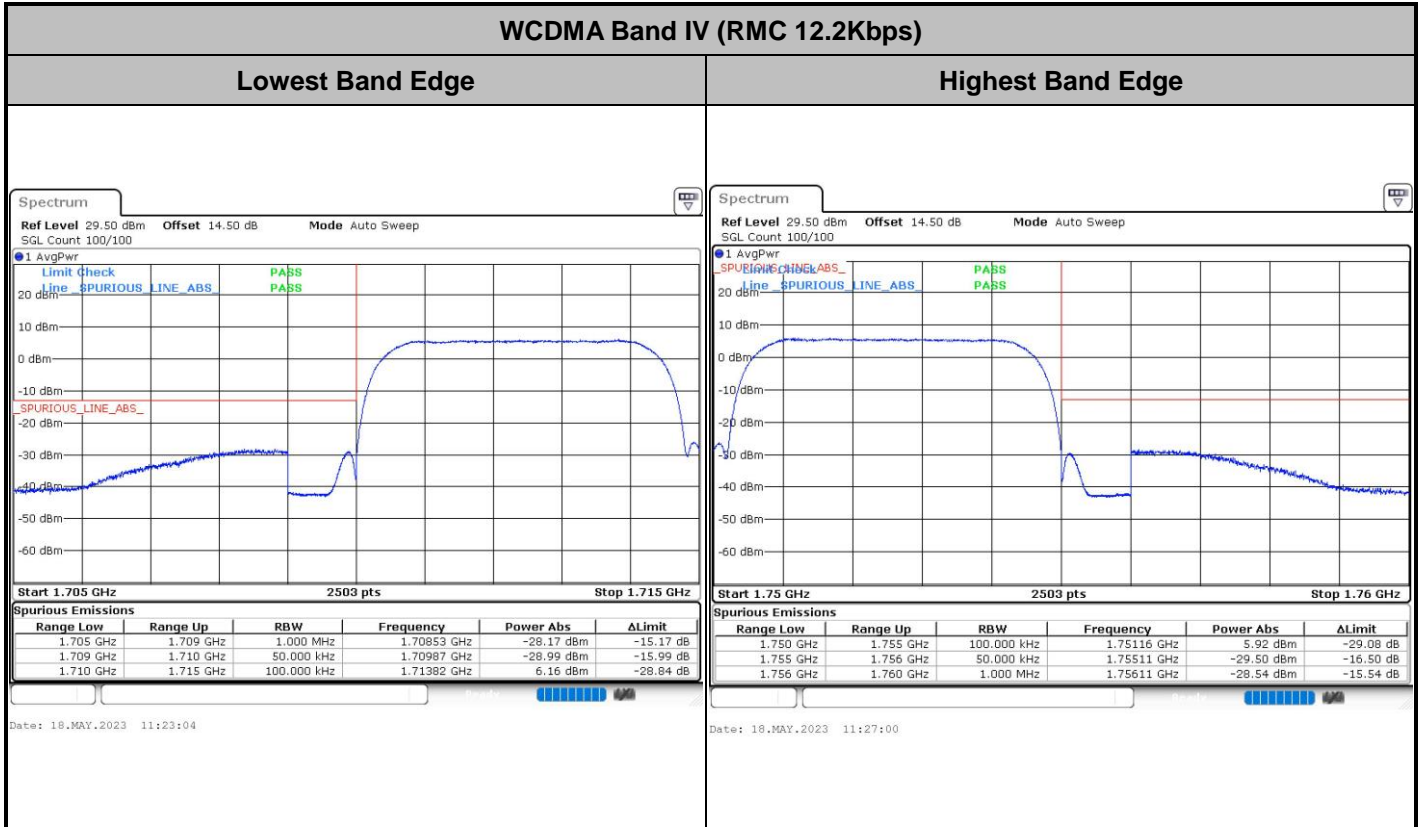


Date: 18, MAY, 2023 11:25:53



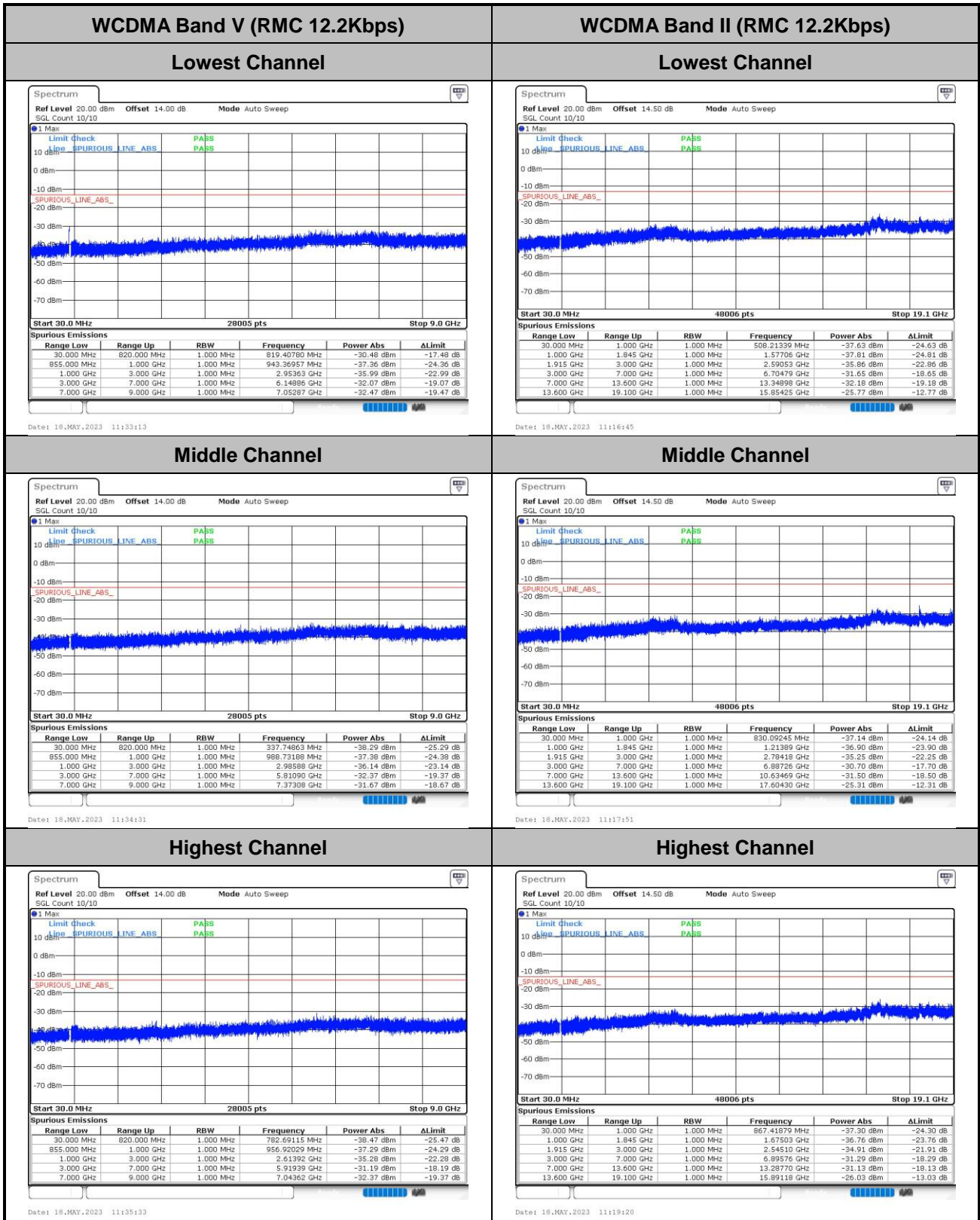
Conducted Band Edge







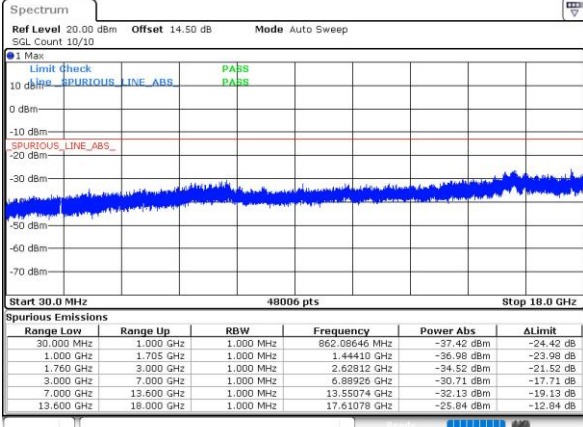
Conducted Spurious Emission





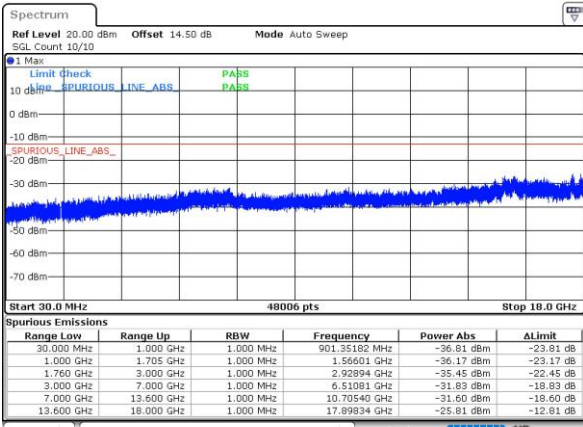
WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



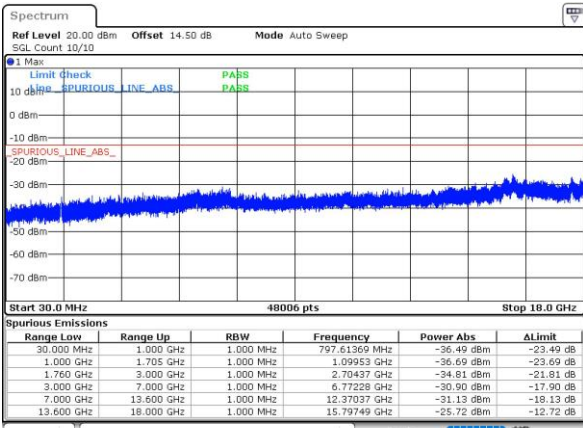
Date: 18.MAY.2023 11:23:30

Middle Channel



Date: 18.MAY.2023 11:24:59

Highest Channel



Date: 18.MAY.2023 11:26:07



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	0.0012	PASS
40	Normal Voltage	0.0007	
30	Normal Voltage	0.0126	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0010	
0	Normal Voltage	0.0006	
-10	Normal Voltage	0.0016	
-20	Normal Voltage	0.0023	
-30	Normal Voltage	0.0018	
20	Maximum Voltage	0.0004	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0006	

Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0014	PASS
40	Normal Voltage	0.0005	
30	Normal Voltage	0.0065	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0061	
0	Normal Voltage	0.0012	
-10	Normal Voltage	0.0059	
-20	Normal Voltage	0.0001	
-30	Normal Voltage	0.0001	
20	Maximum Voltage	0.0010	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0010	



Test Conditions	Middle Channel	WCDMA Band IV (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0002	PASS
40	Normal Voltage	0.0010	
30	Normal Voltage	0.0066	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0005	
0	Normal Voltage	0.0068	
-10	Normal Voltage	0.0002	
-20	Normal Voltage	0.0005	
-30	Normal Voltage	0.0010	
20	Maximum Voltage	0.0003	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0073	

Note:

1. Normal Voltage = 3.89V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage =4.48 V
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 :	Chris Chen	Temperature :	23~25°C
		Relative Humidity :	41~42%

RSE pretest all the support Antennas, only the worst results are shown in the report.

GSM850 (GSM) / Ant.0								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1672	-37.72	-13	-24.72	-44.69	1.58	10.70	H
	2510	-49.18	-13	-36.18	-57.43	2.102	12.50	H
	3345	-59.88	-13	-46.88	-68.77	2.856	13.90	H
	1672	-39.66	-13	-26.66	-46.63	1.58	10.70	V
	2510	-51.56	-13	-38.56	-59.81	2.10	12.50	V
	3345	-64.38	-13	-51.38	-73.27	2.86	13.90	V

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

GSM850 (EDGE 1 Tx slots) / Ant.0								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1672	-54.96	-13	-41.96	-61.93	1.58	10.70	H
	2510	-50.32	-13	-37.32	-58.57	2.102	12.50	H
	3348	-67.84	-13	-54.84	-76.73	2.856	13.90	H
	1672	-51.77	-13	-38.77	-58.74	1.58	10.70	V
	2510	-47.72	-13	-34.72	-55.97	2.10	12.50	V
	3348	-67.30	-13	-54.30	-76.19	2.86	13.90	V

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

WCDMA Band V(RMC 12.2Kbps) / Ant.0								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1672	-71.57	-13	-58.57	-78.54	1.58	10.70	H
	2510	-68.57	-13	-55.57	-76.82	2.102	12.50	H
	3348	-67.92	-13	-54.92	-76.81	2.856	13.90	H
	1672	-71.18	-13	-58.18	-78.15	1.58	10.70	V
	2510	-68.38	-13	-55.38	-76.63	2.10	12.50	V
	3348	-67.59	-13	-54.59	-76.48	2.86	13.90	V

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



GSM1900 (GSM) / Ant.2								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3759	-58.84	-13	-45.84	-71.10	2.64	14.90	H
	5640	-45.73	-13	-32.73	-57.59	2.94	14.80	H
	7524	-45.67	-13	-32.67	-55.44	3.39	13.16	H
	3759	-64.61	-13	-51.61	-76.87	2.64	14.90	V
	5640	-46.49	-13	-33.49	-58.35	2.94	14.80	V
	7524	-52.18	-13	-39.18	-61.95	3.39	13.16	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)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3759	-62.98	-13	-49.98	-75.24	2.64	14.90	H
	5640	-60.50	-13	-47.50	-72.36	2.94	14.80	H
	7524	-48.53	-13	-35.53	-58.30	3.39	13.16	H
	3759	-62.73	-13	-49.73	-74.99	2.64	14.90	V
	5640	-60.13	-13	-47.13	-71.99	2.94	14.80	V
	7524	-52.18	-13	-39.18	-61.95	3.39	13.16	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)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3759	-65.36	-13	-52.36	-77.62	2.64	14.90	H
	5640	-60.78	-13	-47.78	-72.64	2.94	14.80	H
	7524	-58.31	-13	-45.31	-68.08	3.39	13.16	H
	3759	-66.11	-13	-53.11	-78.37	2.64	14.90	V
	5640	-60.60	-13	-47.60	-72.46	2.94	14.80	V
	7524	-58.17	-13	-45.17	-67.94	3.39	13.16	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)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3465	-66.73	-13	-53.73	-77.47	2.604	13.34	H
	5199	-58.57	-13	-45.57	-69.08	3.011	13.52	H
	6936	-57.81	-13	-44.81	-68.01	3.271	13.47	H
	3465	-67.02	-13	-54.02	-77.76	2.604	13.34	V
	5199	-56.07	-13	-43.07	-66.58	3.011	13.52	V
	6936	-57.75	-13	-44.75	-67.95	3.271	13.47	V

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