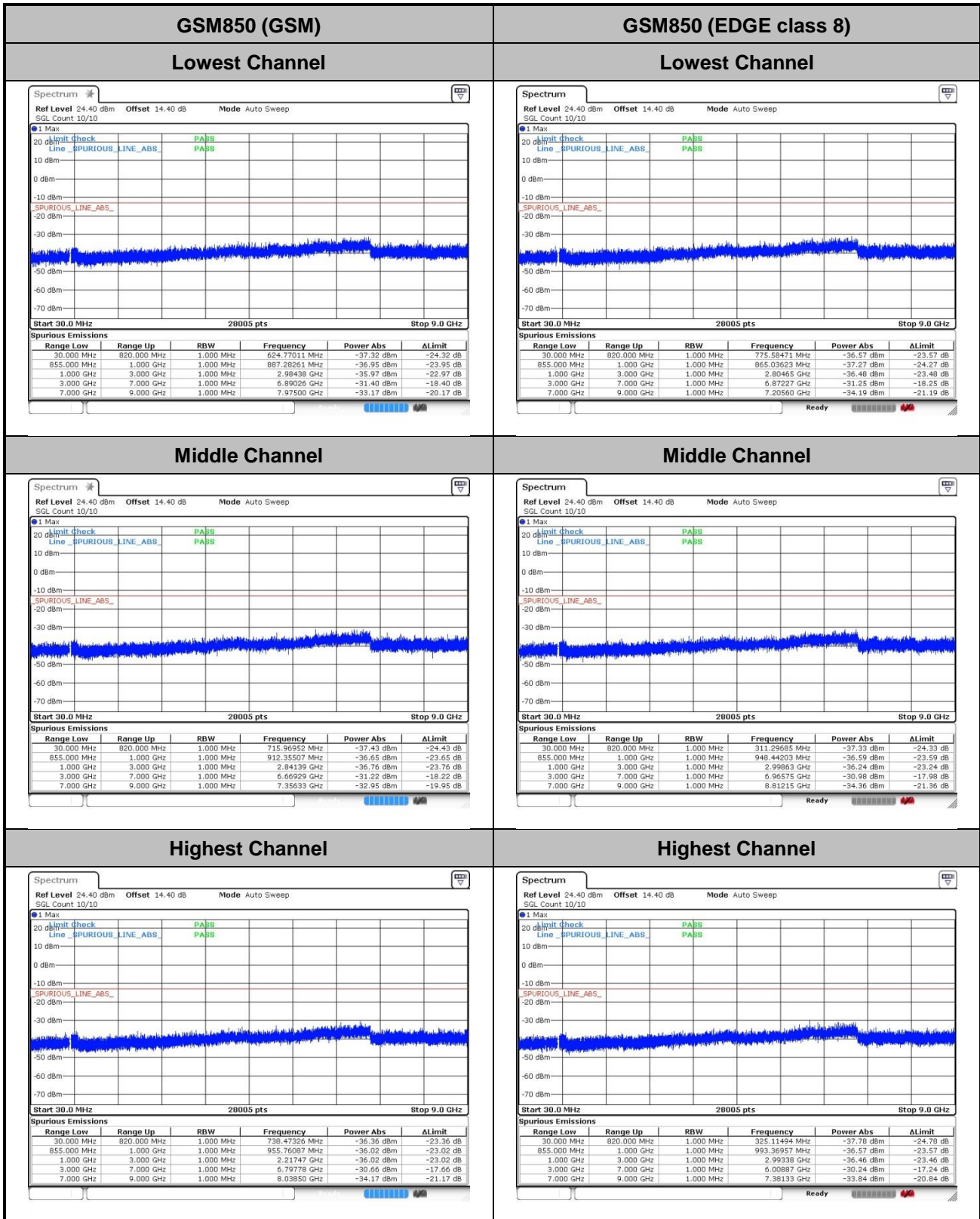




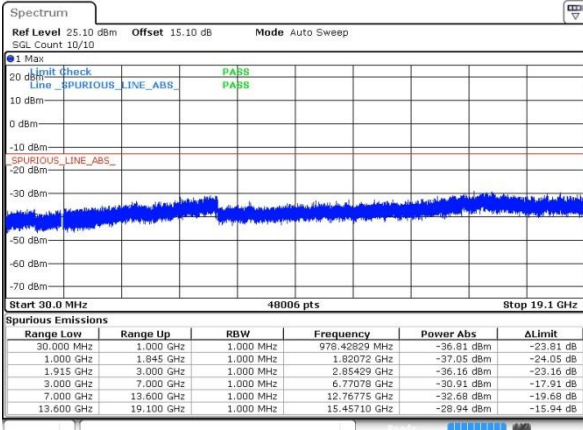
# Conducted Spurious Emission





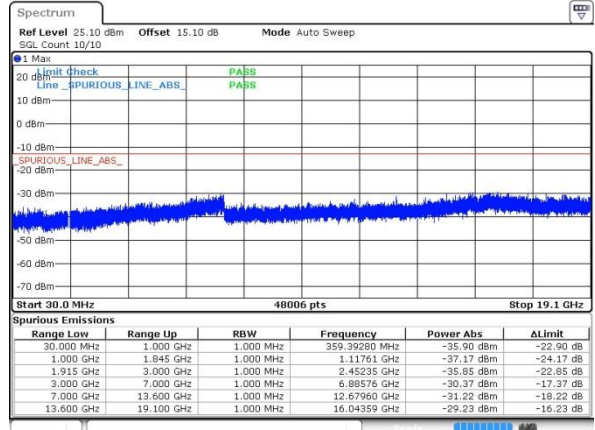
GSM1900 (GSM)

Lowest Channel

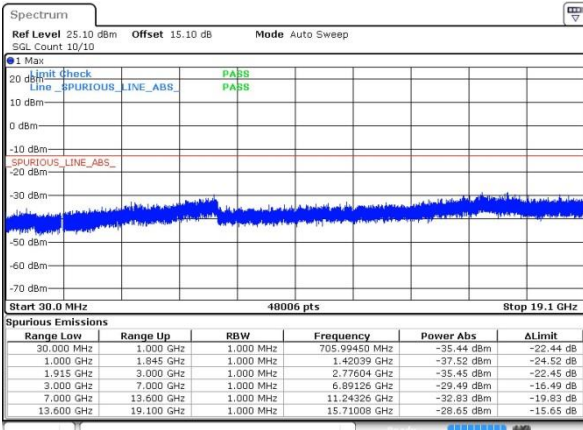


GSM1900 (EDGE class 8)

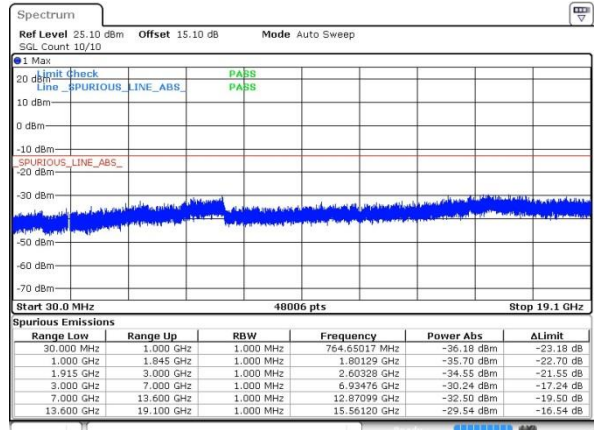
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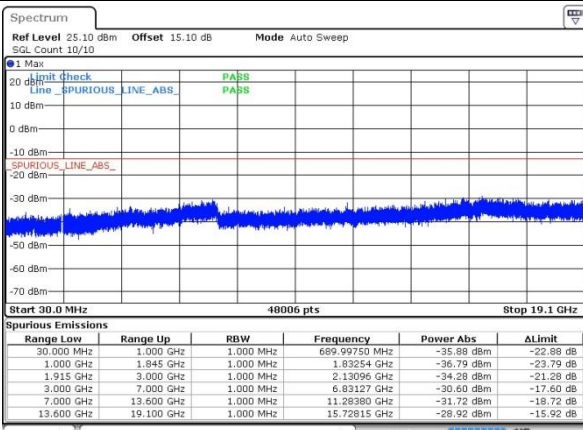
Middle Channel



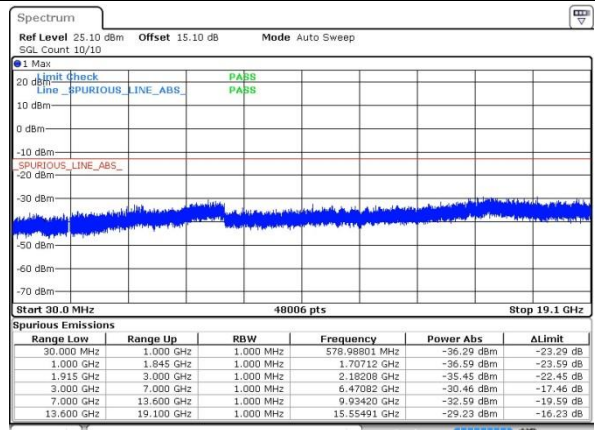
Middle Channel



Highest Channel



Highest Channel

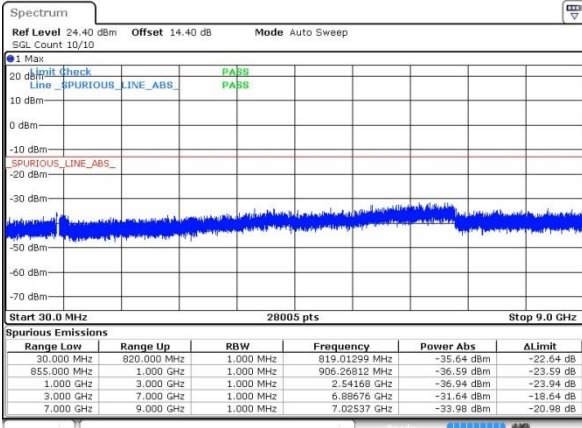






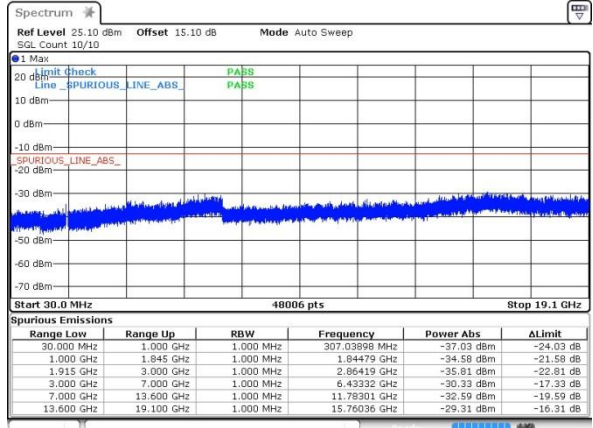
WCDMA Band V (RMC 12.2Kbps)

Lowest Channel

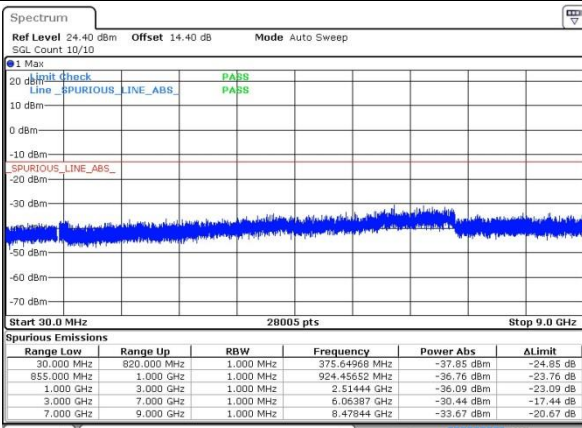


WCDMA Band II (RMC 12.2Kbps)

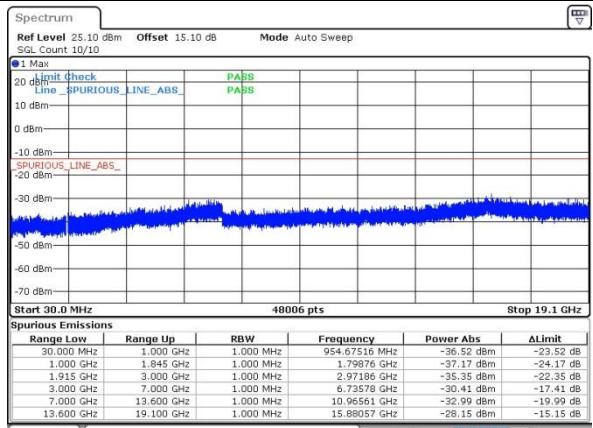
Lowest Channel



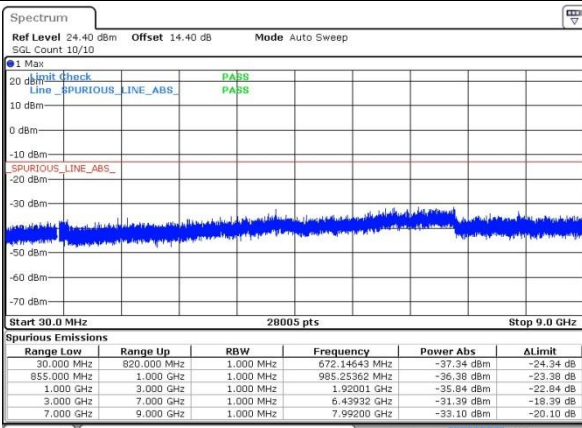
Middle Channel



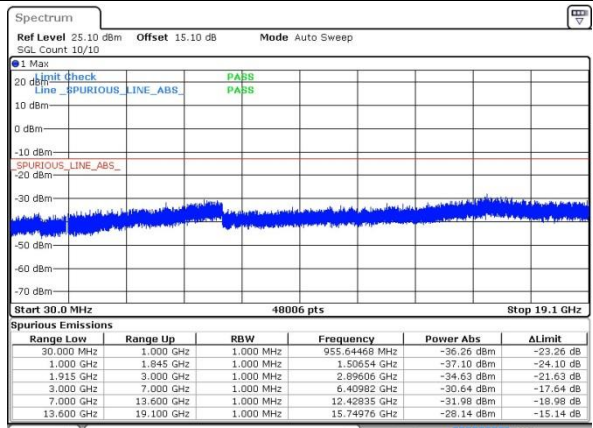
Middle Channel

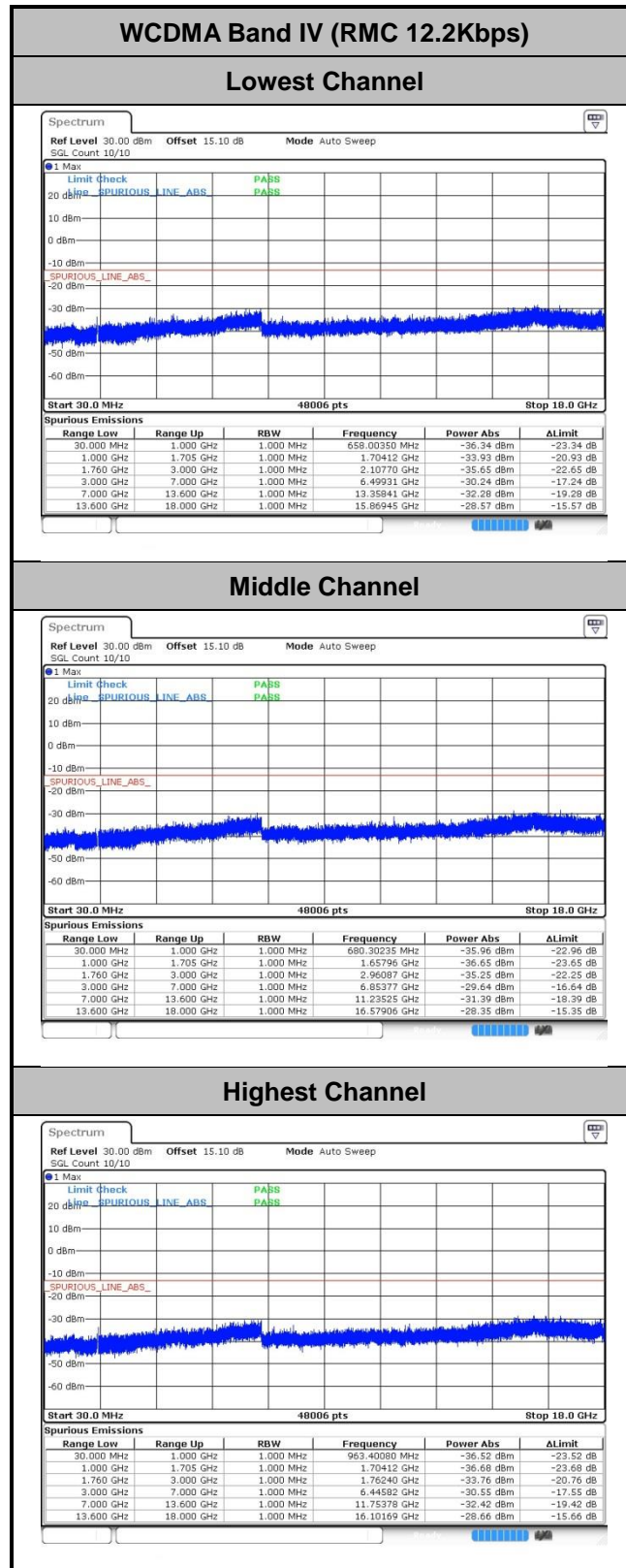


Highest Channel



Highest Channel







Frequency Stability

Test Conditions	Middle Channel	GSM850 (GSM)	GSM850 (EDGE class 8)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		Result
50	Normal Voltage	0.0155	0.0227	PASS
40	Normal Voltage	0.0407	0.0072	
30	Normal Voltage	0.0012	0.0299	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0371	0.0167	
0	Normal Voltage	0.0227	0.0335	
-10	Normal Voltage	0.0323	0.0347	
-20	Normal Voltage	0.0012	0.0072	
-30	Normal Voltage	0.0024	0.0239	
20	Maximum Voltage	0.0036	0.0143	
20	Normal Voltage	0.0036	0.0108	
20	Battery End Point	0.0251	0.0263	

Note:

1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage =4.2 V
2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



Test Conditions	Middle Channel	GSM1900 (GSM)	GSM1900 (EDGE class 8)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		Result
50	Normal Voltage	0.0037	0.0053	PASS
40	Normal Voltage	0.0011	0.0021	
30	Normal Voltage	0.0048	0.0032	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0170	0.0011	
0	Normal Voltage	0.0138	0.0218	
-10	Normal Voltage	0.0011	0.0011	
-20	Normal Voltage	0.0133	0.0053	
-30	Normal Voltage	0.0016	0.0202	
20	Maximum Voltage	0.0027	0.0048	
20	Normal Voltage	0.0005	0.0154	
20	Battery End Point	0.0037	0.0138	

**Note:**

1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage =4.2 V
2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.





Test Conditions	Middle Channel	WCDMA Band V (RMC 12.2Kbps)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0048	PASS
40	Normal Voltage	0.0335	
30	Normal Voltage	0.0335	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0263	
0	Normal Voltage	0.0275	
-10	Normal Voltage	0.0024	
-20	Normal Voltage	0.0120	
-30	Normal Voltage	0.0227	
20	Maximum Voltage	0.0311	
20	Normal Voltage	0.0072	
20	Battery End Point	0.0036	

**Note:**

1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage =4.2 V
2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit
			Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0165	PASS
40	Normal Voltage	0.0016	
30	Normal Voltage	0.0138	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0027	
0	Normal Voltage	0.0101	
-10	Normal Voltage	0.0037	
-20	Normal Voltage	0.0149	
-30	Normal Voltage	0.0117	
20	Maximum Voltage	0.0133	
20	Normal Voltage	0.0011	
20	Battery End Point	0.0021	

**Note:**

1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage =4.2 V
2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



Test Conditions	Middle Channel	WCDMA Band IV (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0208	PASS
40	Normal Voltage	0.0196	
30	Normal Voltage	0.0075	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0173	
0	Normal Voltage	0.0208	
-10	Normal Voltage	0.0069	
-20	Normal Voltage	0.0058	
-30	Normal Voltage	0.0133	
20	Maximum Voltage	0.0190	
20	Normal Voltage	0.0023	
20	Battery End Point	0.0087	

**Note:**

1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage =4.2 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 Conducted Test

### Radiated Spurious Emission

GSM850 (GPRS class 8)								
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Margin (dB)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1672	-40.72	-13	-27.72	-42.63	1.14	5.20	H
	2510	-53.89	-13	-40.89	-56.52	1.12	5.90	H
	3345	-47.14	-13	-34.14	-50.35	1.34	6.70	H
	4182	-55.41	-13	-42.41	-58.87	1.59	7.20	H
	1672	-36.75	-13	-23.75	-38.66	1.14	5.20	V
	2510	-45.73	-13	-32.73	-48.36	1.12	5.90	V
	3345	-52.41	-13	-39.41	-55.62	1.34	6.70	V
	4182	-54.51	-13	-41.51	-57.97	1.59	7.20	V

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

GSM850 (EDGE class 8)								
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Margin (dB)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1672	-49.74	-13	-36.74	-51.65	1.14	5.20	H
	2510	-60.33	-13	-47.33	-62.96	1.12	5.90	H
	3345	-58.49	-13	-45.49	-61.70	1.34	6.70	H
	1672	-44.10	-13	-31.10	-46.01	1.14	5.20	V
	2510	-55.98	-13	-42.98	-58.61	1.12	5.90	V
	3345	-58.59	-13	-45.59	-61.80	1.34	6.70	V

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



GSM1900 (GPRS class 8)								
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Margin (dB)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3759	-48.15	-13	-35.15	-49.87	5.08	6.80	H
	5640	-41.83	-13	-28.83	-43.50	8.03	9.70	H
	7521	-49.88	-13	-36.88	-52.26	9.43	11.81	H
	3759	-49.30	-13	-36.30	-51.02	5.08	6.80	V
	5640	-45.72	-13	-32.72	-47.39	8.03	9.70	V
	7521	-49.95	-13	-36.95	-52.33	9.43	11.81	V

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

GSM1900 (EDGE class 8)								
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Margin (dB)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3759	-51.55	-13	-38.55	-53.27	5.08	6.80	H
	5640	-51.25	-13	-38.25	-52.92	8.03	9.70	H
	7521	-50.01	-13	-37.01	-52.39	9.43	11.81	H
	3759	-54.07	-13	-41.07	-55.79	5.08	6.80	V
	5640	-50.69	-13	-37.69	-52.36	8.03	9.70	V
	7521	-49.48	-13	-36.48	-51.86	9.43	11.81	V

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





WCDMA Band V(RMC 12.2Kbps)								
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Margin (dB)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1672	-63.24	-13	-50.24	-65.15	1.14	5.20	H
	2510	-60.41	-13	-47.41	-63.04	1.12	5.90	H
	3345	-59.22	-13	-46.22	-62.43	1.34	6.70	H
	1672	-61.82	-13	-48.82	-63.73	1.14	5.20	V
	2510	-60.10	-13	-47.10	-62.73	1.12	5.90	V
	3345	-58.83	-13	-45.83	-62.04	1.34	6.70	V

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

WCDMA Band II(RMC 12.2Kbps)								
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Margin (dB)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3760	-57.18	-13	-44.18	-58.90	5.08	6.80	H
	5643	-50.93	-13	-37.93	-52.60	8.03	9.70	H
	7521	-49.69	-13	-36.69	-52.07	9.43	11.81	H
	3759	-56.90	-13	-43.90	-58.62	5.08	6.80	V
	5643	-52.27	-13	-39.27	-53.94	8.03	9.70	V
	7521	-49.84	-13	-36.84	-52.22	9.43	11.81	V

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

WCDMA Band IV(RMC 12.2Kbps)								
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Margin (dB)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3465	-50.76	-13	-37.76	-54.73	4.87	8.84	H
	5199	-55.29	-13	-42.29	-56.73	7.70	9.14	H
	6930	-50.90	-13	-37.90	-52.59	8.98	10.66	H
	3465	-54.71	-13	-41.71	-58.68	4.87	8.84	V
	5199	-54.80	-13	-41.80	-56.24	7.70	9.14	V
	6930	-50.82	-13	-37.82	-52.51	8.98	10.66	V

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