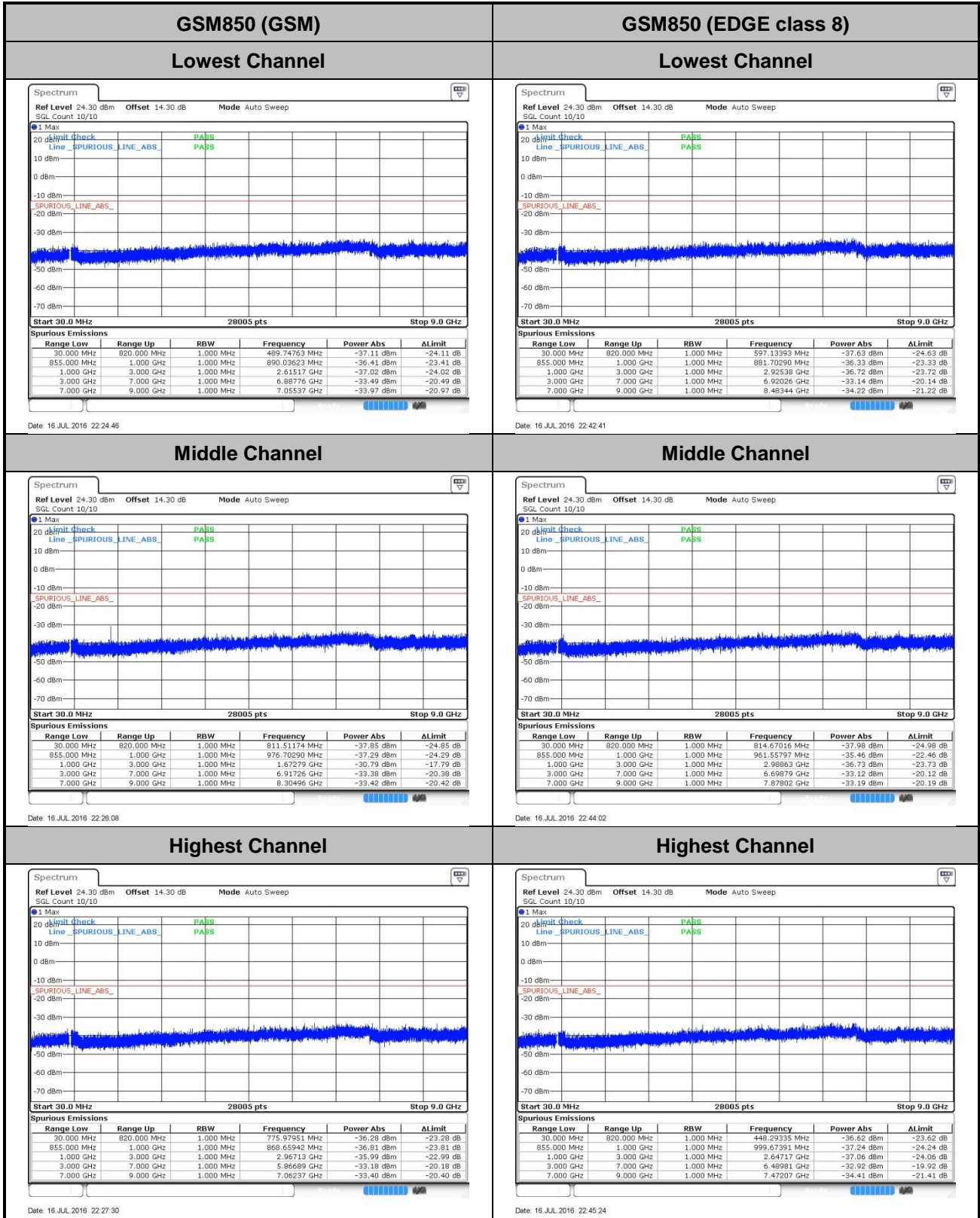




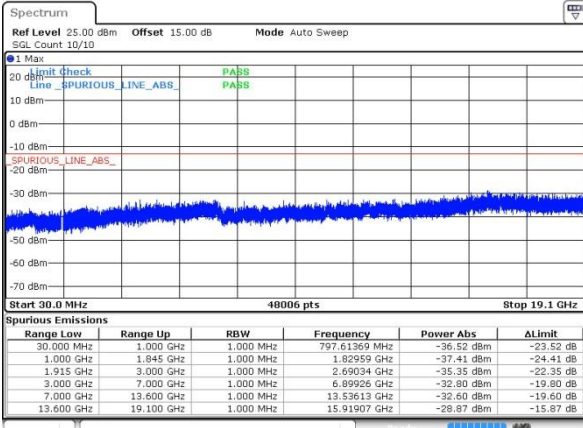
Conducted Spurious Emission





GSM1900 (GSM)

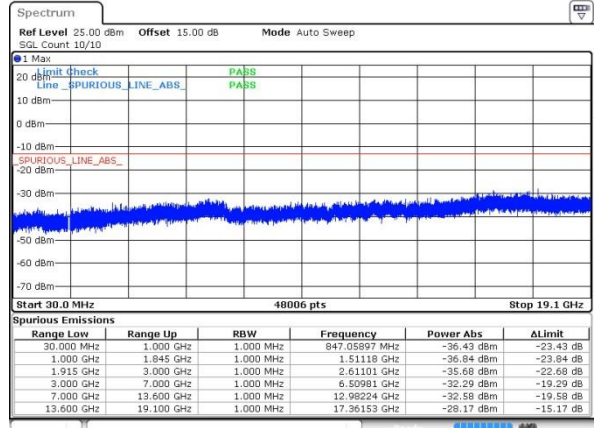
Lowest Channel



Date: 16 JUL 2016 23:00:04

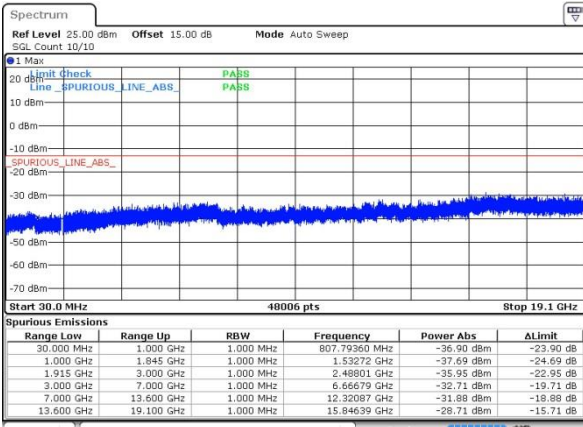
GSM1900 (EDGE class 8)

Lowest Channel



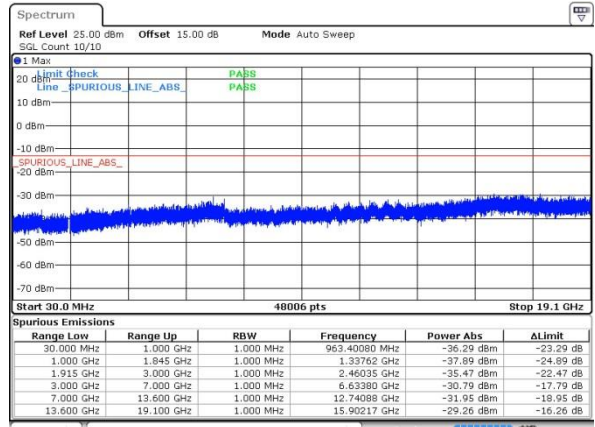
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Middle Channel



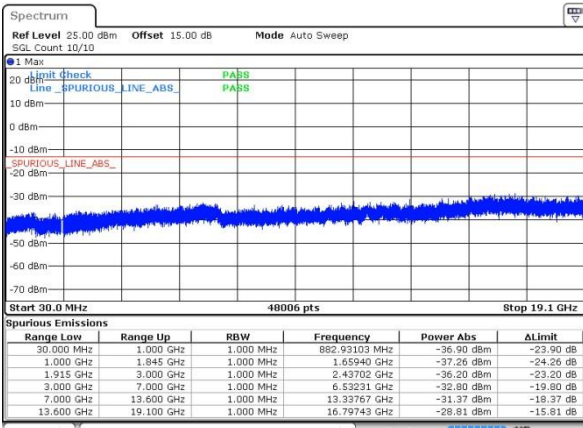
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Middle Channel



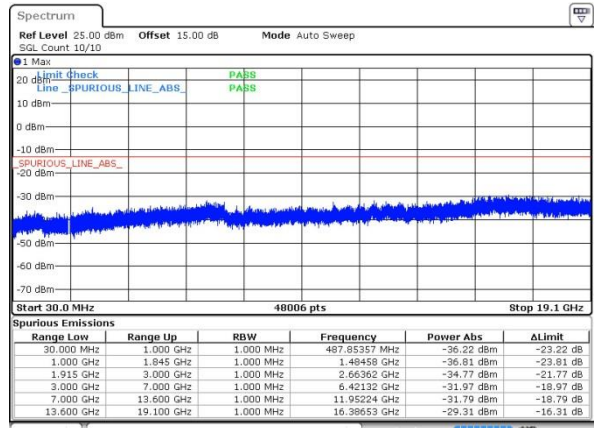
Date: 16 JUL 2016 23:20:03

Highest Channel



Date: 16 JUL 2016 23:02:45

Highest Channel

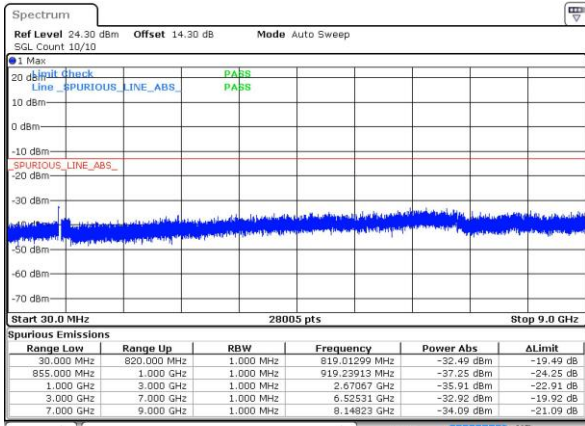


Date: 16 JUL 2016 23:21:24



WCDMA Band V (RMC 12.2Kbps)

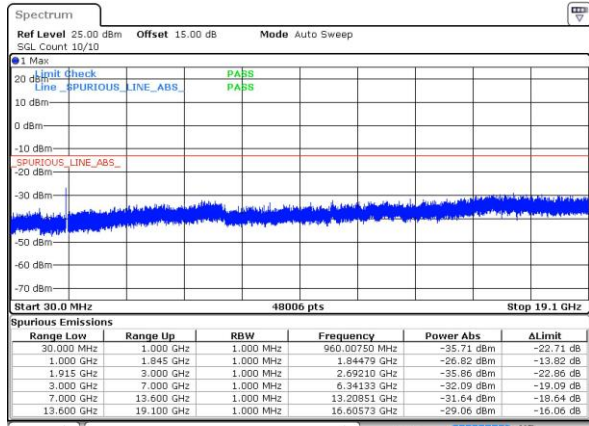
Lowest Channel



Date: 17.JUL.2016 00:58:11

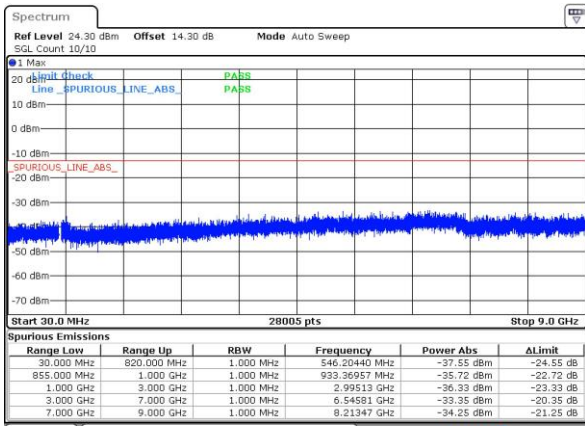
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



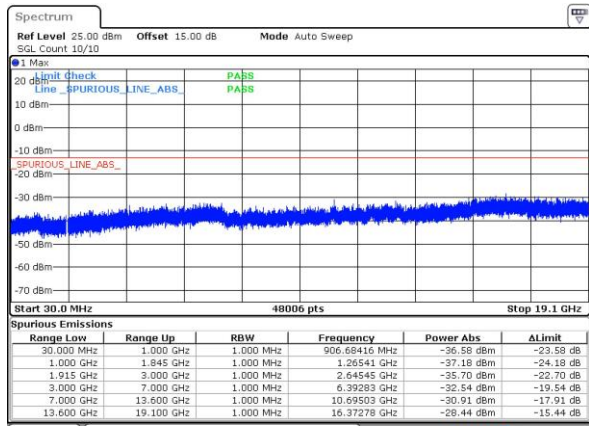
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Middle Channel



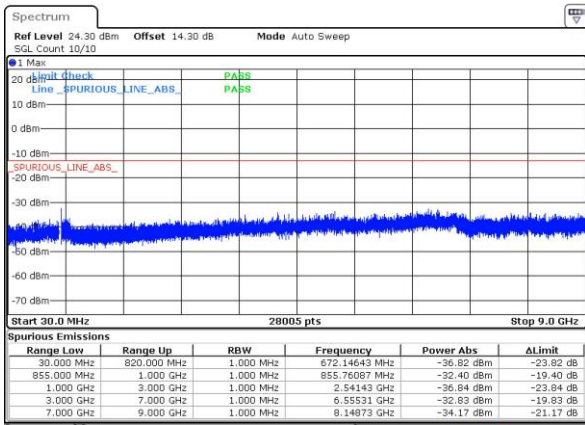
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Middle Channel



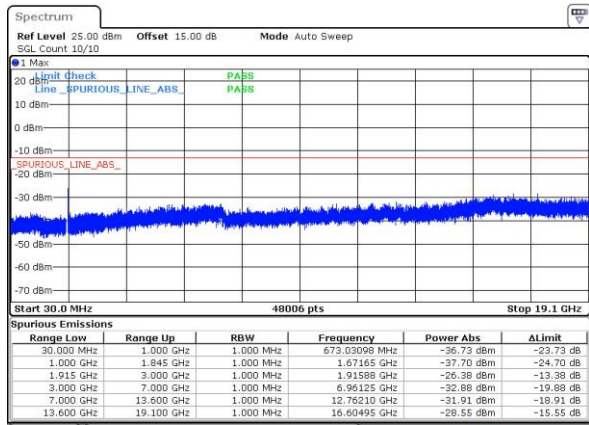
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Highest Channel



Date: 17.JUL.2016 01:01:01

Highest Channel

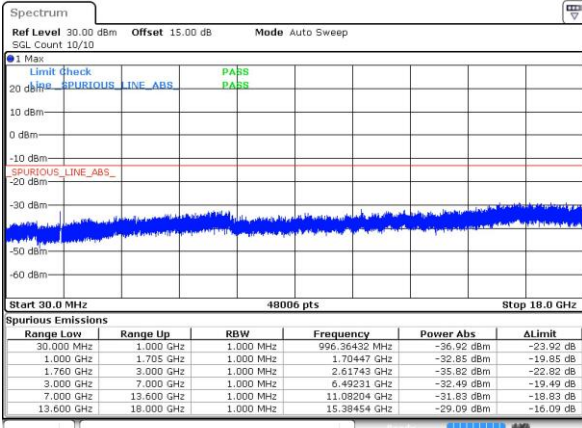


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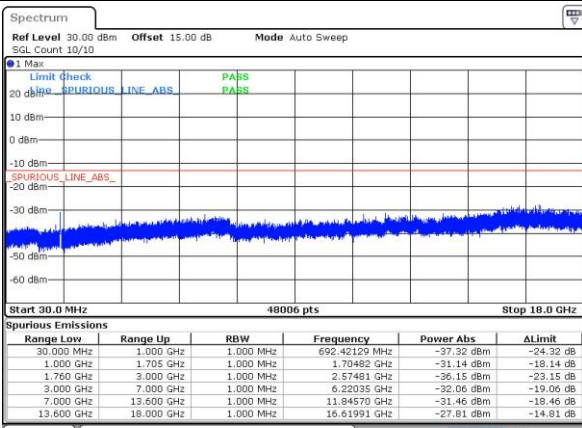
WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



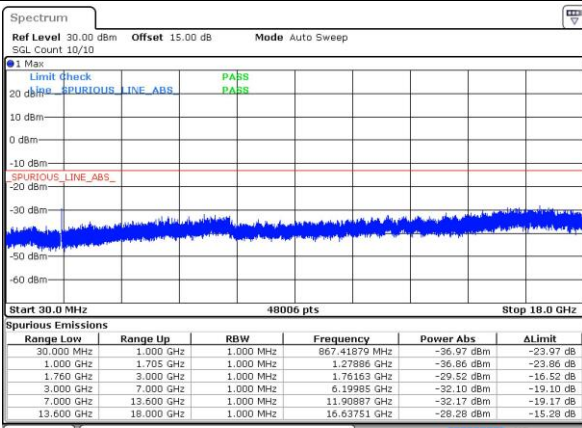
Date: 17.JUL.2016 02:08:24

Middle Channel



Date: 17.JUL.2016 02:09:41

Highest Channel



Date: 17.JUL.2016 02:11:11



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	0.0359	0.0335	PASS
40	Normal Voltage	0.0036	0.0060	
30	Normal Voltage	0.0490	0.0084	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0084	0.0048	
0	Normal Voltage	0.0526	0.0132	
-10	Normal Voltage	0.0012	0.0395	
-20	Normal Voltage	0.0311	0.0430	
-30	Normal Voltage	0.0060	0.0526	
20	Maximum Voltage	0.0514	0.0036	
20	Normal Voltage	0.0371	0.0012	
20	Battery End Point	0.0048	0.0502	

Note: Normal Voltage = 3.85V. ; Battery End Point (BEP) = 3.5 V. ; Maximum Voltage =4.35 V

Test Conditions	Middle Channel	GSM1900 (GSM)	GSM1900 (EDGE class 8)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		Result
50	Normal Voltage	0.0213	0.0032	PASS
40	Normal Voltage	0.0005	0.0122	
30	Normal Voltage	0.0144	0.0021	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0197	0.0043	
0	Normal Voltage	0.0181	0.0245	
-10	Normal Voltage	0.0186	0.0176	
-20	Normal Voltage	0.0032	0.0207	
-30	Normal Voltage	0.0144	0.0149	
20	Maximum Voltage	0.0191	0.0053	
20	Normal Voltage	0.0053	0.0005	
20	Battery End Point	0.0149	0.0021	

Note:

1. Normal Voltage = 3.85V. ; Battery End Point (BEP) = 3.5 V. ; Maximum Voltage =4.35 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	0.0036	PASS
40	Normal Voltage	0.0060	
30	Normal Voltage	0.0048	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0012	
0	Normal Voltage	0.0120	
-10	Normal Voltage	0.0191	
-20	Normal Voltage	0.0203	
-30	Normal Voltage	0.0084	
20	Maximum Voltage	0.0191	
20	Normal Voltage	0.0036	
20	Battery End Point	0.0072	

Note: Normal Voltage = 3.85V. ; Battery End Point (BEP) = 3.5 V. ; Maximum Voltage =4.35V

Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0064	PASS
40	Normal Voltage	0.0005	
30	Normal Voltage	0.0085	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0048	
0	Normal Voltage	0.0096	
-10	Normal Voltage	0.0027	
-20	Normal Voltage	0.0037	
-30	Normal Voltage	0.0090	
20	Maximum Voltage	0.0011	
20	Normal Voltage	0.0112	
20	Battery End Point	0.0032	

Note:

1. Normal Voltage = 3.85V. ; Battery End Point (BEP) = 3.5 V. ; Maximum Voltage =4.35V
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	0.0081	PASS
40	Normal Voltage	0.0017	
30	Normal Voltage	0.0052	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0029	
0	Normal Voltage	0.0104	
-10	Normal Voltage	0.0069	
-20	Normal Voltage	0.0087	
-30	Normal Voltage	0.0023	
20	Maximum Voltage	0.0075	
20	Normal Voltage	0.0035	
20	Battery End Point	0.0006	

Note:

1. Normal Voltage = 3.85V. ; Battery End Point (BEP) = 3.5 V. ; Maximum Voltage =4.35 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

ERP/EIRP

Channel	Mode	Horizontal		Vertical	
		ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	GSM850 GSM	26.69	0.4667	17.83	0.0607
Middle		27.95	0.6237	19.02	0.0798
Highest		29.14	0.8204	19.89	0.0975
Lowest	GSM850 EDGE class 8	18.74	0.0748	9.35	0.0086
Middle		20.12	0.1028	11.39	0.0138
Highest		21.37	0.1371	11.73	0.0149
Lowest	WCDMA Band V RMC 12.2Kbps	17.44	0.0555	8.76	0.0075
Middle		18.31	0.0678	9.44	0.0088
Highest		19.24	0.0839	9.73	0.0094
Limit	ERP < 7W	Result		PASS	

Channel	Mode	Horizontal		Vertical	
		EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	GSM1900 GSM	28.20	0.6607	28.54	0.7145
Middle		27.67	0.5848	28.32	0.6792
Highest		27.65	0.5821	27.74	0.5943
Lowest	GSM1900 EDGE class 8	22.98	0.1986	23.53	0.2254
Middle		23.22	0.2099	23.48	0.2228
Highest		22.85	0.1928	23.03	0.2009
Lowest	WCDMA Band II RMC 12.2Kbps	21.16	0.1306	21.66	0.1466
Middle		21.08	0.1282	21.93	0.1560
Highest		21.05	0.1274	21.25	0.1334
Limit	EIRP < 2W	Result		PASS	

Channel	Mode	Horizontal		Vertical	
		EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	WCDMA Band IV RMC 12.2Kbps	21.26	0.1337	20.49	0.1119
Middle		21.47	0.1403	20.77	0.1194
Highest		21.63	0.1455	20.82	0.1208
Limit	EIRP < 1W	Result		PASS	



Radiated Spurious Emission

GSM850 (GSM)									
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	-43.46	-13	-30.46	-44.32	-45.48	1.73	5.90	H
	2512	-51.03	-13	-38.03	-54.49	-53.57	2.11	6.80	H
	3345.6	-59.23	-13	-46.23	-63.18	-62.01	2.47	7.40	H
	1672	-47.79	-13	-34.79	-47.7	-49.81	1.73	5.90	V
	2512	-55.76	-13	-42.76	-57.74	-58.30	2.11	6.80	V
	3344	-61.16	-13	-48.16	-64.48	-63.94	2.47	7.40	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)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1672	-43.34	-13	-30.34	-44.19	-45.36	1.73	5.90	H
	2512	-53.58	-13	-40.58	-56.57	-56.12	2.11	6.80	H
	3344	-59.38	-13	-46.38	-63.33	-62.16	2.47	7.40	H
	1672	-49.07	-13	-36.07	-48.62	-51.09	1.73	5.90	V
	2512	-56.79	-13	-43.79	-58.77	-59.33	2.11	6.80	V
	3344	-61.20	-13	-48.20	-64.52	-63.98	2.47	7.40	V

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



GSM1900 (GSM)									
Channel	Frequency (MHz)	EIRP (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	3762	-59.82	-13	-46.82	-63.33	-64.82	2.60	7.60	H
	5640	-58.00	-13	-45.00	-66.19	-65.00	3.10	10.10	H
	7520	-57.00	-13	-44.00	-69.03	-63.16	5.77	11.93	H
	3760	-61.44	-13	-48.44	-65.23	-66.44	2.60	7.60	V
	5640	-58.69	-13	-45.69	-67.26	-65.69	3.10	10.10	V
	7518	-53.62	-13	-40.62	-68.26	-59.78	5.77	11.93	V

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

GSM1900 (EDGE class 8)									
Channel	Frequency (MHz)	EIRP (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	3762	-62.54	-13	-49.54	-66.05	-67.54	2.60	7.60	H
	5640	-59.90	-13	-46.90	-68.09	-66.90	3.10	10.10	H
	7520	-56.60	-13	-43.60	-68.63	-62.76	5.77	11.93	H
	3760	-62.10	-13	-49.10	-65.89	-67.10	2.60	7.60	V
	5640	-58.89	-13	-45.89	-67.46	-65.89	3.10	10.10	V
	7518	-54.56	-13	-41.56	-69.2	-60.72	5.77	11.93	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)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1672	-63.41	-13	-50.41	-62.04	-65.43	1.73	5.90	H
	2509.2	-60.02	-13	-47.02	-63.01	-62.56	2.11	6.80	H
	3345	-60.68	-13	-47.68	-64.63	-63.46	2.47	7.40	H
	1672	-63.87	-13	-50.87	-61.83	-65.89	1.73	5.90	V
	2509	-61.35	-13	-48.35	-63.33	-63.89	2.11	6.80	V
	3344	-61.63	-13	-48.63	-64.95	-64.41	2.47	7.40	V

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

WCDMA Band II(RMC 12.2Kbps)									
Channel	Frequency (MHz)	EIRP (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	3762	-61.91	-13	-48.91	-65.42	-66.91	2.60	7.60	H
	5640	-58.00	-13	-45.00	-66.19	-65.00	3.10	10.10	H
	7520	-56.21	-13	-43.21	-68.24	-62.37	5.77	11.93	H
	3760	-62.18	-13	-49.18	-65.97	-67.18	2.60	7.60	V
	5640	-58.44	-13	-45.44	-67.01	-65.44	3.10	10.10	V
	7518	-53.08	-13	-40.08	-67.72	-59.24	5.77	11.93	V

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

WCDMA Band IV(RMC 12.2Kbps)									
Channel	Frequency (MHz)	EIRP (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	3468	-57.90	-13	-44.90	-64.69	-62.79	1.81	6.70	H
	5197.8	-53.43	-13	-40.43	-66.11	-60.33	2.23	9.13	H
	6930.4	-52.23	-13	-39.23	-67.41	-60.29	2.60	10.66	H
	3468	-57.71	-13	-44.71	-62.91	-62.60	1.81	6.70	V
	5197.8	-51.88	-13	-38.88	-65.43	-58.78	2.23	9.13	V
	6930.4	-52.33	-13	-39.33	-67.38	-60.39	2.6	10.66	V

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