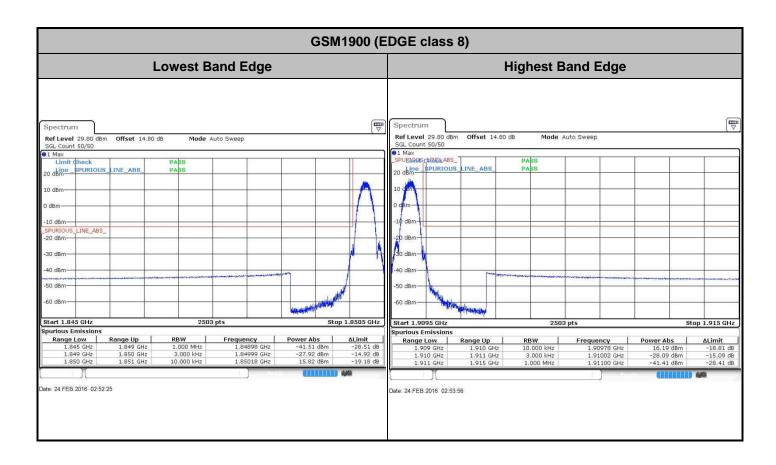


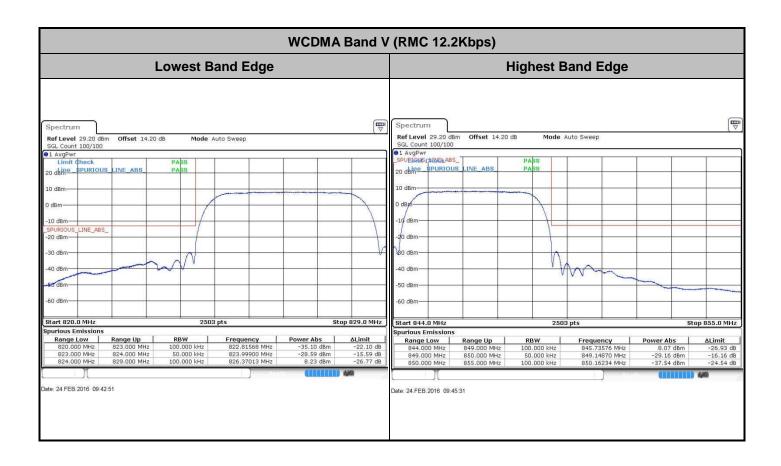
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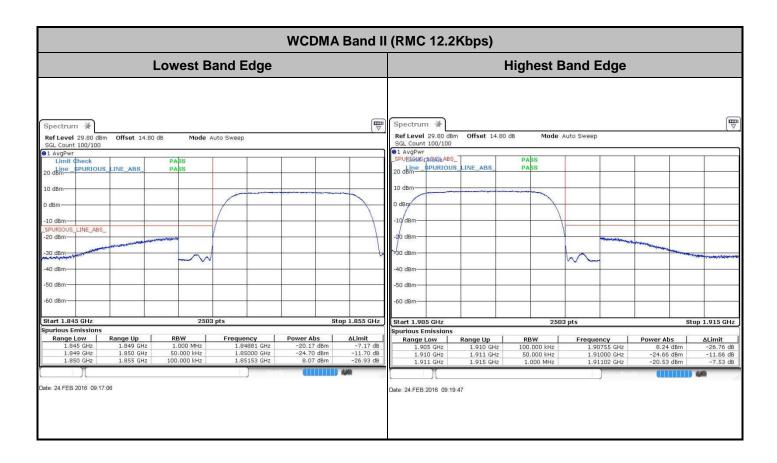
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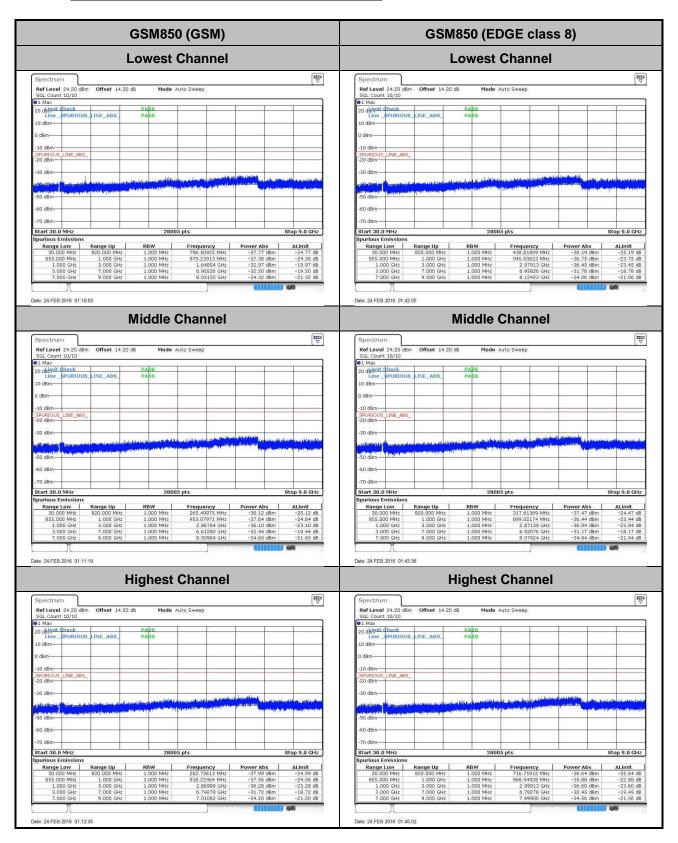
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### **Conducted Spurious Emission**



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**GSM1900 (GSM)** GSM1900 (EDGE class 8) **Lowest Channel Lowest Channel** ♥ **₩** Ref Level 24.80 dBm Offset 14.80 dB SGL Count 10/10 Mode Auto Sweep Mode Auto Sweep Ref Level 24.80 d8m Offset 14.80 d8 Stop 19.1 GHz Start 30.0 MHz Stop 19.1 GHz Range Low 30.000 MHz Frequency 863,54073 MHz Range Low 30.000 MHz Date: 24.FEB.2016 02:37:36 Date: 24 FEB 2016 02:55:25 **Middle Channel Middle Channel □** ♥ Start 30.0 MH Stop 19.1 GHz Start 30.0 MHz Spurious Emissions 8top 19.1 GHz Date: 24 FEB 2016 02:38:58 Date: 24 FEB 2016 02:56:44 **Highest Channel Highest Channel** ▽ SGL Count 10/10 20 deimit Check Line SPURIOUS LINE\_ABS 20 deimit Check Line SPURIOUS LINE ABS dBm-ΔLimit -24.15 dB 
 Frequency
 Power Abs

 803.43078 MHz
 -37.15 dBm

 Frequency
 Power Abs

 969.21789 MHz
 -37.04 dBm

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WCDMA Band V (RMC 12.2Kbps) WCDMA Band II (RMC 12.2Kbps) **Lowest Channel Lowest Channel ₩ ₩** Ref Level 24,80 d8m Offset 14.80 d8 SGL Count 10/10 1 Max dBm Offset 14.20 dB Mode Auto Sweep Ref Level 24.20 Start 30.0 MHz Stop 19.1 GHz Stop 9.0 GHz Start 30.0 MHz Range Low 30,000 MHz Range Low 30,000 MHz Date: 24.FEB.2016 09:46:53 Date: 24.FEB.2016 09:21:23 **Middle Channel Middle Channel** INE ABS -30 dBm Start 30.0 MHz Spurious Emissions Date: 24 FEB 2016 09:48:08 Date: 24 FEB 2016 09:22:40 **Highest Channel Highest Channel** V Ref Level 24.20 SGL Count 10/10 20 deimit Check Line SPURIOUS LINE\_ABS RIOUS LINE ABS dBm-Start 30.0 MHz Stop 9.0 GHz Frequency 956.61419 MHz

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### Frequency Stability

Test Conditions	Middle Channel	GSM850 (GSM)	GSM850 (EDGE class 8)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviatio	n (ppm)	Result
50	Normal Voltage	0.0538	0.0442	
40	Normal Voltage	0.0084	0.0096	
30	Normal Voltage	0.0478	0.0538	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0430	0.0084	
0	Normal Voltage	0.0383	0.0072	
-10	Normal Voltage	0.0120	0.0048	PASS
-20	Normal Voltage	0.0084	0.0622	
-30	Normal Voltage	0.0478	0.0155	
20	Maximum Voltage	0.0538	0.0598	
20	Normal Voltage	0.0048	0.0143	
20	Battery End Point	0.0060	0.0132	

Note: Normal Voltage = 3.9V. ; 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)	Deviatio		Result
50	Normal Voltage	0.0218	0.0202	
40	Normal Voltage	0.0021	0.0223	
30	Normal Voltage	0.0186	0.0016	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0181	0.0032	
0	Normal Voltage	0.0191	0.0239	
-10	Normal Voltage	0.0229	0.0250	PASS
-20	Normal Voltage	0.0037	0.0037	
-30	Normal Voltage	0.0005	0.0037	
20	Maximum Voltage	0.0170	0.0186	
20	Normal Voltage	0.0021	0.0170	
20	Battery End Point	0.0032	0.0027	

#### Note:

- 1. Normal Voltage = 3.9V. ; 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.

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Test Conditions	Middle Channel	WCDMA Band V (RMC 12.2Kbps)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0359	
40	Normal Voltage	0.0084	
30	Normal Voltage	0.0407	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0442	
0	Normal Voltage	0.0024	
-10	Normal Voltage	0.0048	PASS
-20	Normal Voltage	0.0060	
-30	Normal Voltage	0.0347	
20	Maximum Voltage	0.0024	
20	Normal Voltage	0.0418	
20	Battery End Point	0.0179	

Note: Normal Voltage = 3.9V.; Battery End Point (BEP) = 3.5 V.; Maximum Voltage =4.35 V

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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	
40	Normal Voltage	0.0016	
30	Normal Voltage	0.0037	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0160	
0	Normal Voltage	0.0005	
-10	Normal Voltage	0.0165	PASS
-20	Normal Voltage	0.0016	
-30	Normal Voltage	0.0048	
20	Maximum Voltage	0.0011	
20	Normal Voltage	0.0043	
20	Battery End Point	0.0059	

### Note:

- 1. Normal Voltage = 3.9V.; 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.

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### **Appendix B. Test Results of Radiated Test**

## **ERP/EIRP**

Channel	Mode	Horiz	ontal	Vertical		
Channel	wiode	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)	
Lowest	0004050	26.76	0.4742	19.64	0.0920	
Middle	GSM850 GSM	27.35	0.5437	20.79	0.1199	
Highest	GSIVI	27.19	0.5241	21.21	0.1321	
Lowest	0014050	20.16	0.1037	13.02	0.0201	
Middle	GSM850 EDGE class 8	20.08	0.1017	13.56	0.0227	
Highest	EDGE Class o	20.25	0.1060	14.26	0.0267	
Lowest	MCDMA Bond V	18.17	0.0657	11.18	0.0131	
Middle	WCDMA Band V	17.96	0.0625	11.62	0.0145	
Highest	RMC 12.2Kbps	17.99	0.0629	11.86	0.0153	
Limit	ERP < 7W	Re	sult	PASS		

Channel	Mode	Horiz	ontal	Ver	tical	
Channel	Wode	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)	
Lowest	GSM1900	31.19	1.3153	31.47	1.4043	
Middle	GSM1900 GSM	31.50	1.4115	32.07	1.6103	
Highest	GSIVI	30.80	1.2018	31.70	1.4807	
Lowest	00144000	26.76	0.4744	26.90	0.4899	
Middle	GSM1900 EDGE class 8	26.92	0.4922	27.51	0.5640	
Highest	EDGE Class o	26.63	0.4601	27.47	0.5584	
Lowest	MCDMA Bond II	24.16	0.2608	24.52	0.2829	
Middle	WCDMA Band II	24.42	0.2769	24.96	0.3136	
Highest	RMC 12.2Kbps	24.50	0.2817	25.23	0.3334	
Limit	EIRP < 2W	Re	sult	PASS		

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# **Radiated Spurious Emission**

	GSM850 (GSM) for Adapter 1 and USB Cable 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)				
	1674	-49.99	-13	-36.99	-51.49	-52.01	1.73	5.90	Н				
	2510	-52.59	-13	-39.59	-57.00	-55.13	2.11	6.80	Н				
Middle	3345	-59.94	-13	-46.94	-65.02	-62.72	2.47	7.40	Н				
ivildale	1674	-49.45	-13	-36.45	-51.35	-51.47	1.73	5.90	V				
	2510	-43.22	-13	-30.22	-49.16	-45.76	2.11	6.80	V				
	3345	-60.47	-13	-47.47	-65.76	-63.25	2.47	7.40	V				

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

	GSM850 (EDGE class 8) for Adapter 1 and USB Cable 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)				
	1672	-61.75	-13	-48.75	-61.83	-63.77	1.73	5.90	Н				
	2509	-59.03	-13	-46.03	-63.16	-61.57	2.11	6.80	Н				
Middle	3345	-61.05	-13	-48.05	-66.13	-63.83	2.47	7.40	Н				
ivildale	1674	-58.12	-13	-45.12	-59.63	-60.14	1.73	5.90	V				
	2508	-57.84	-13	-44.84	-63.33	-60.38	2.11	6.80	V				
	3345	-60.08	-13	-47.08	-65.37	-62.86	2.47	7.40	V				

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

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	GSM1900 (GSM) for Adapter 1 and USB Cable 1											
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)			
	3760	-57.20	-13	-44.20	-66.76	-62.20	2.60	7.60	Н			
	5640	-49.48	-13	-36.48	-63.47	-56.48	3.10	10.10	Н			
Middle	7521	-50.24	-13	-37.24	-68.97	-56.40	5.77	11.93	Н			
Middle	3759	-55.14	-13	-42.14	-65.66	-60.14	2.60	7.60	V			
	5640	-51.22	-13	-38.22	-65.68	-58.22	3.10	10.10	V			
	7521	-49.52	-13	-36.52	-67.44	-55.68	5.77	11.93	V			

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

	GSM1900 (EDGE class 8) for Adapter 1 and USB Cable 1												
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)				
	3759	-57.20	-13	-44.20	-66.76	-62.20	2.60	7.60	Н				
	5640	-54.02	-13	-41.02	-68.01	-61.02	3.10	10.10	Н				
NA: el ell e	7521	-50.12	-13	-37.12	-68.85	-56.28	5.77	11.93	Н				
Middle	3760	-55.36	-13	-42.36	-65.88	-60.36	2.60	7.60	V				
	5640	-53.54	-13	-40.54	-68	-60.54	3.10	10.10	V				
	7521	-50.78	-13	-37.78	-68.7	-56.94	5.77	11.93	V				

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

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	WCDMA Band V(RMC 12.2Kbps) for Adapter 1 and USB Cable 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)				
	1672	-59.75	-13	-46.75	-59.98	-61.77	1.73	5.90	Н				
	2509	-58.26	-13	-45.26	-62.39	-60.80	2.11	6.80	Н				
Middle	3345	-60.73	-13	-47.73	-65.81	-63.51	2.47	7.40	Н				
Middle	1670	-55.55	-13	-42.55	-57.26	-57.57	1.73	5.90	V				
	2508	-57.08	-13	-44.08	-62.57	-59.62	2.11	6.80	V				
	3345	-59.77	-13	-46.77	-65.06	-62.55	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) for Adapter 1 and USB Cable 1												
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)				
	3759	-54.95	-13	-41.95	-64.51	-59.95	2.60	7.60	Н				
	5640	-52.94	-13	-39.94	-66.93	-59.94	3.10	10.10	Н				
Middle	7521	-50.07	-13	-37.07	-68.80	-56.23	5.77	11.93	Н				
Middle	3760	-55.55	-13	-42.55	-66.07	-60.55	2.60	7.60	V				
	5640	-53.74	-13	-40.74	-68.2	-60.74	3.10	10.10	V				
	7521	-51.67	-13	-38.67	-69.59	-57.83	5.77	11.93	V				

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	GSM850 (GSM) for Adapter 2 and USB Cable 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	1674	-44.58	-13	-31.58	-45.30	-46.60	1.73	5.90	Н			
	2510	-54.18	-13	-41.18	-58.31	-56.72	2.11	6.80	Н			
	3345	-60.68	-13	-47.68	-65.76	-63.46	2.47	7.40	Н			
	1674	-41.38	-13	-28.38	-43.48	-43.40	1.73	5.90	V			
	2510	-49.27	-13	-36.27	-54.96	-51.81	2.11	6.80	V			
	3345	-60.54	-13	-47.54	-65.83	-63.32	2.47	7.40	V			

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

GSM1900 (GSM) for Adapter 2 and USB Cable 2											
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	3702	-48.60	-13	-35.60	-58.91	-53.60	2.60	7.60	Н		
	5550	-49.83	-13	-36.83	-63.82	-56.83	3.10	10.10	Н		
	7521	-50.60	-13	-37.60	-69.33	-56.76	5.77	11.93	Н		
	3702	-50.41	-13	-37.41	-61.09	-55.41	2.60	7.60	V		
	5550	-43.01	-13	-30.01	-58.51	-50.01	3.10	10.10	V		
	7521	-51.70	-13	-38.70	-69.62	-57.86	5.77	11.93	V		

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