

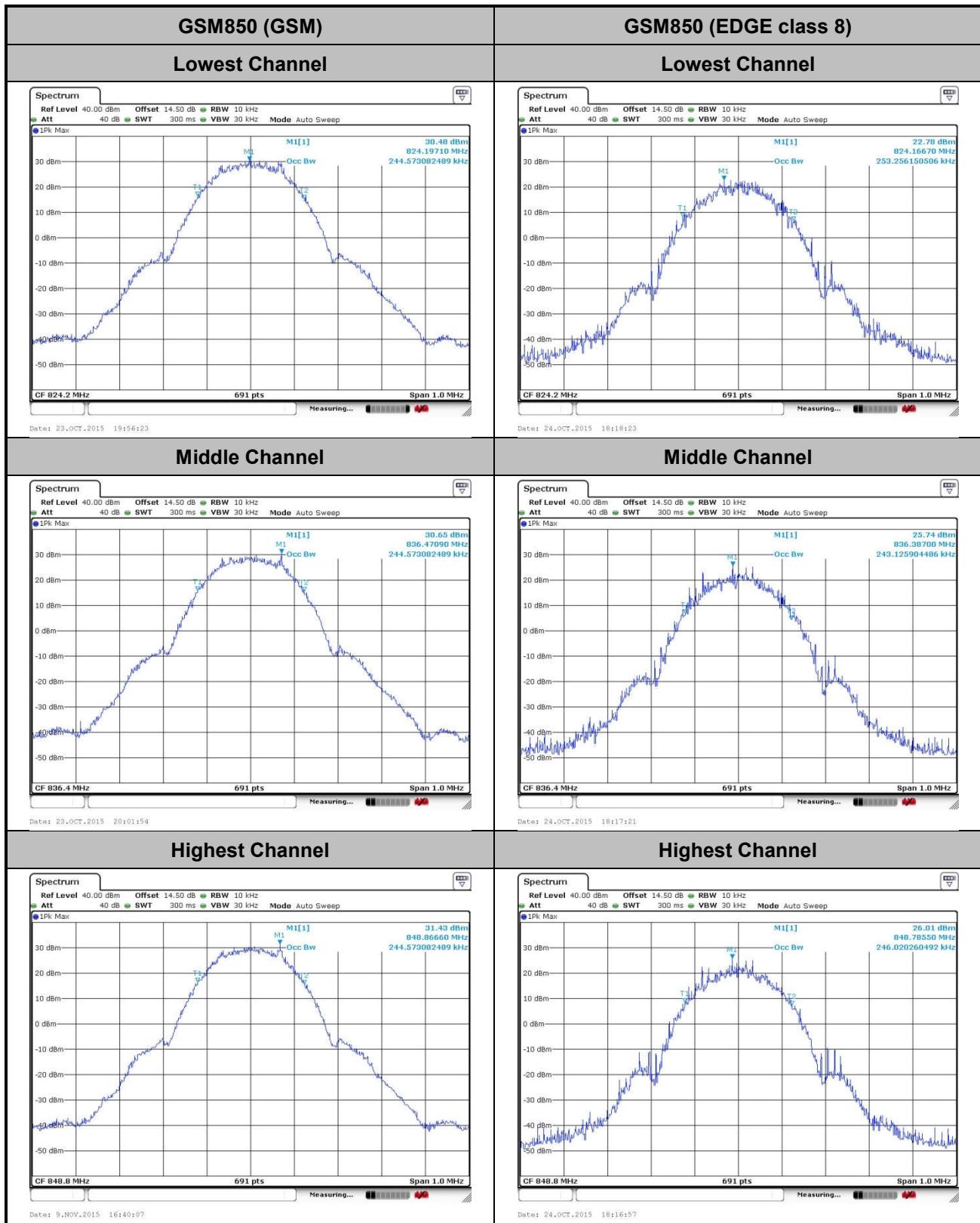


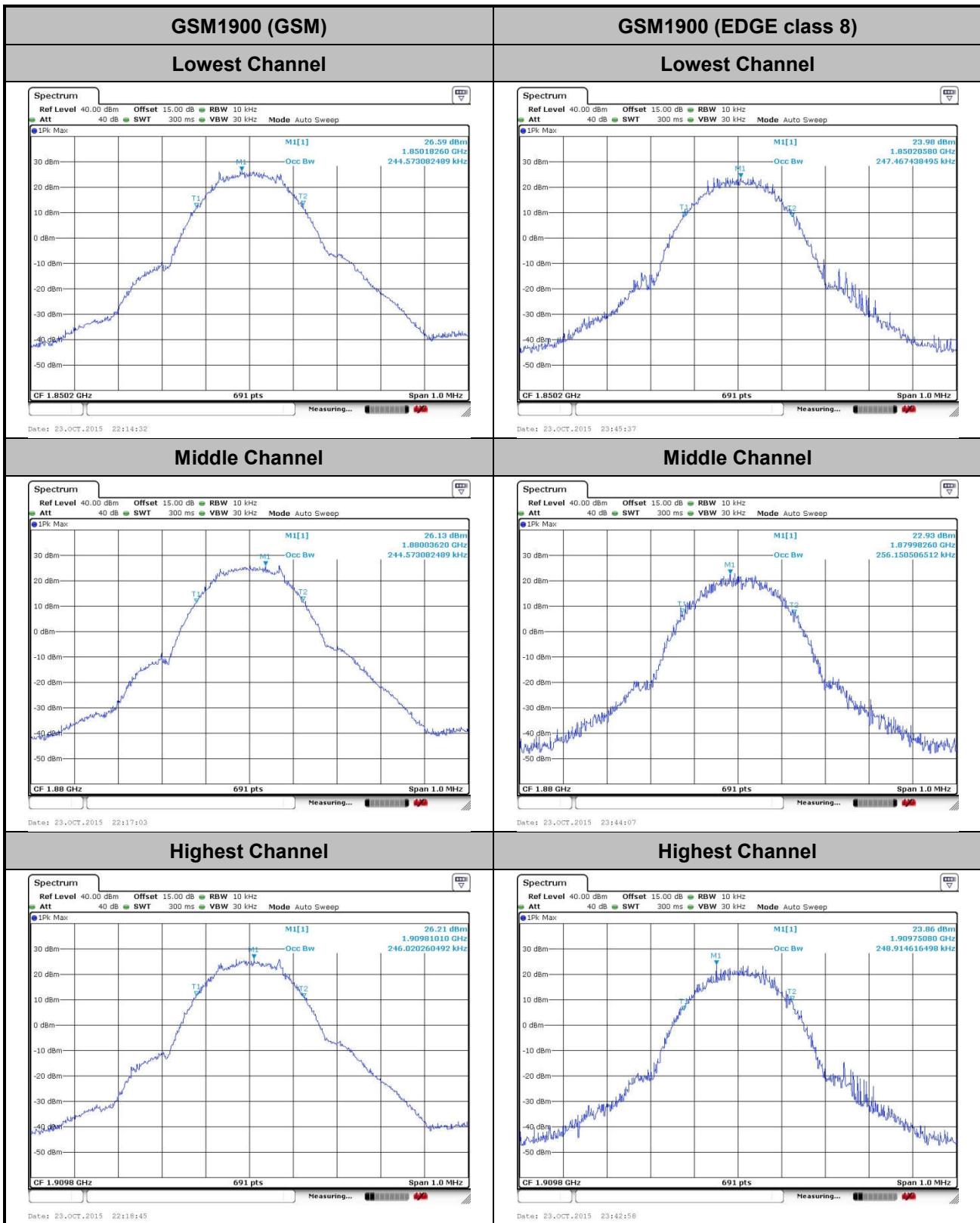
Occupied Bandwidth

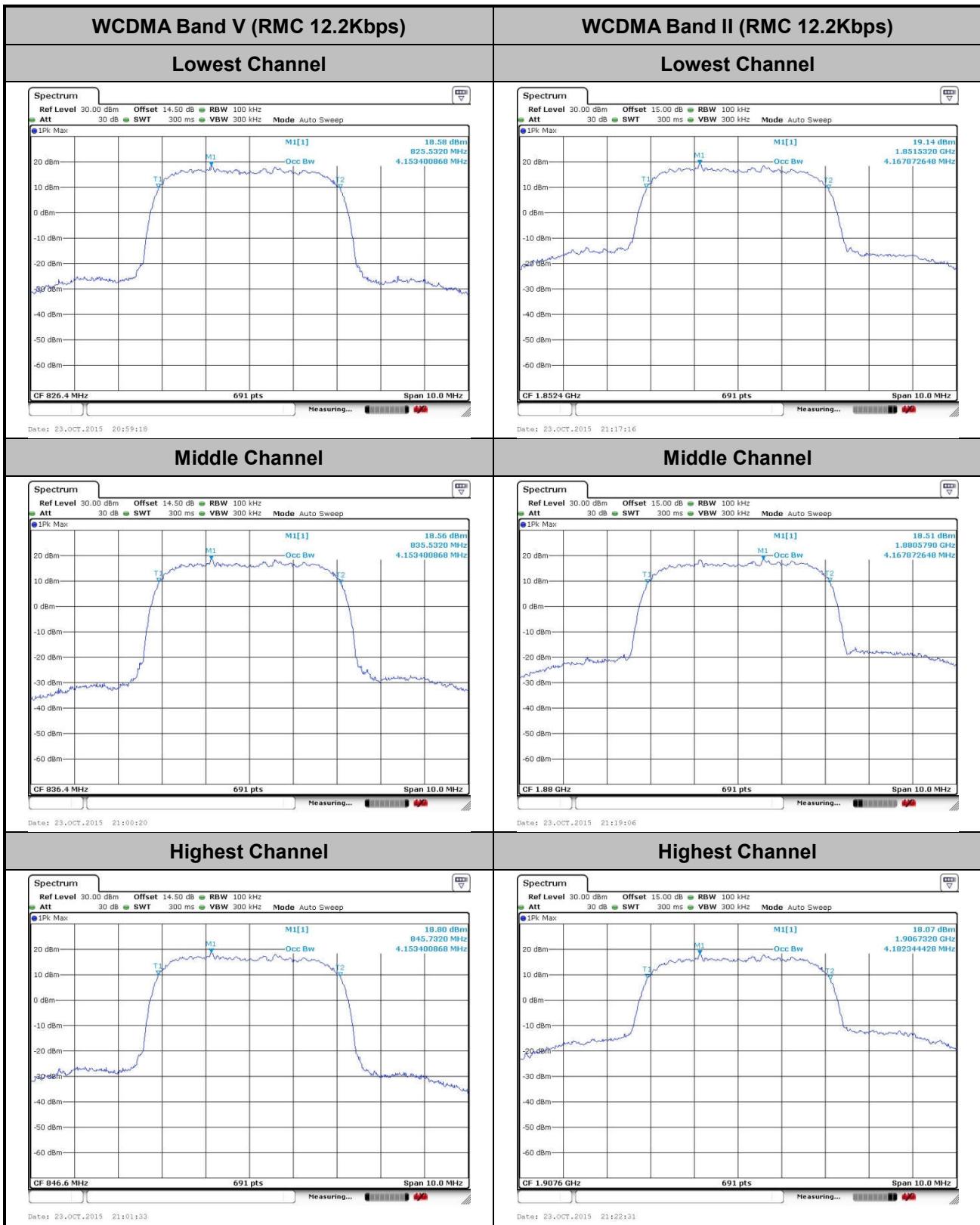
Mode	GSM850	
Mod.	GSM	EDGE class 8
Lowest CH	244.57	253.26
Middle CH	244.57	243.13
Highest CH	244.57	246.02

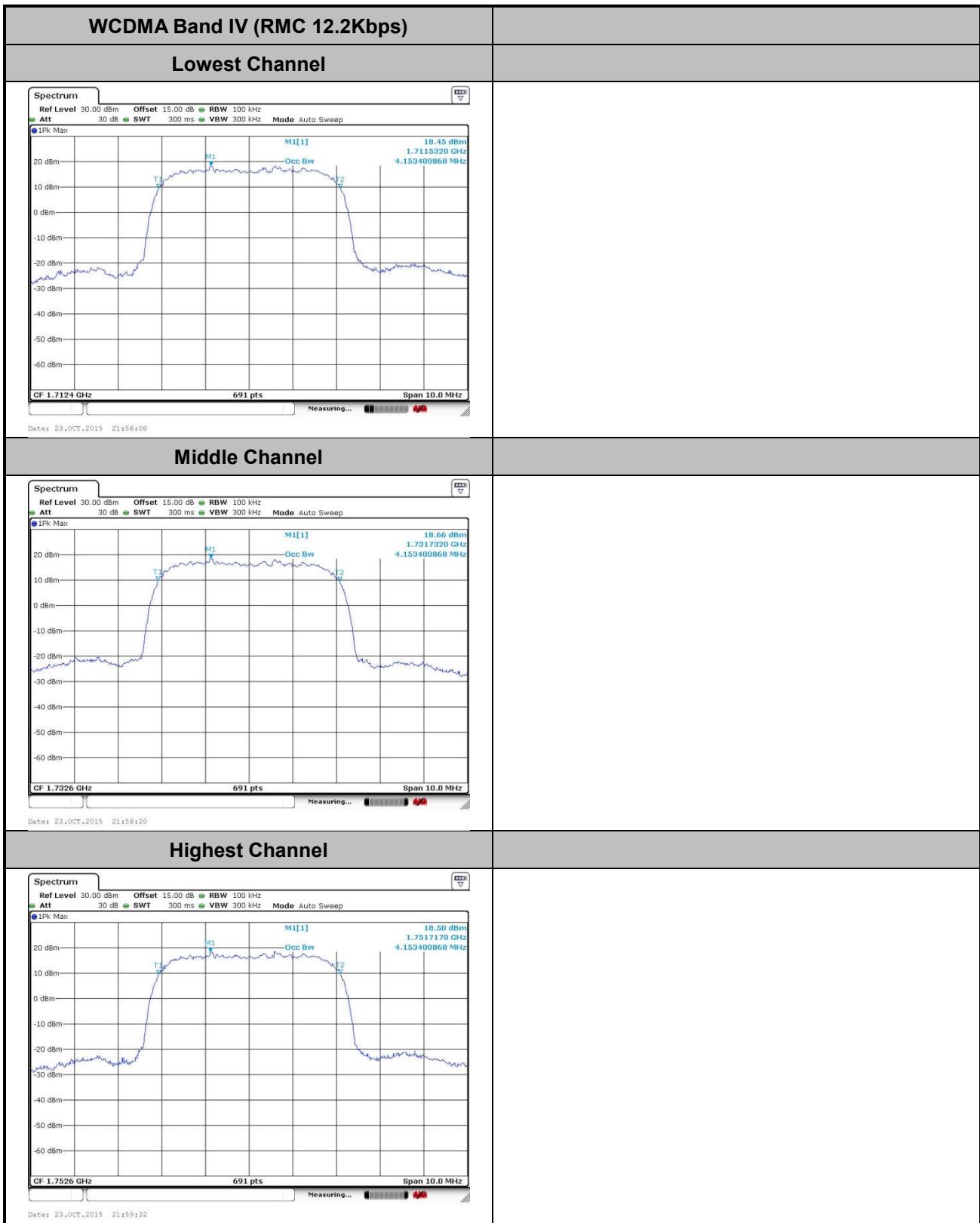
Mode	GSM1900	
Mod.	GSM	EDGE class 8
Lowest CH	244.57	247.47
Middle CH	244.57	256.15
Highest CH	246.02	248.91

Mode	WCDMA Band V	WCDMA Band II	WCDMA Band IV
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.15	4.17	4.15
Middle CH	4.15	4.17	4.15
Highest CH	4.15	4.18	4.15



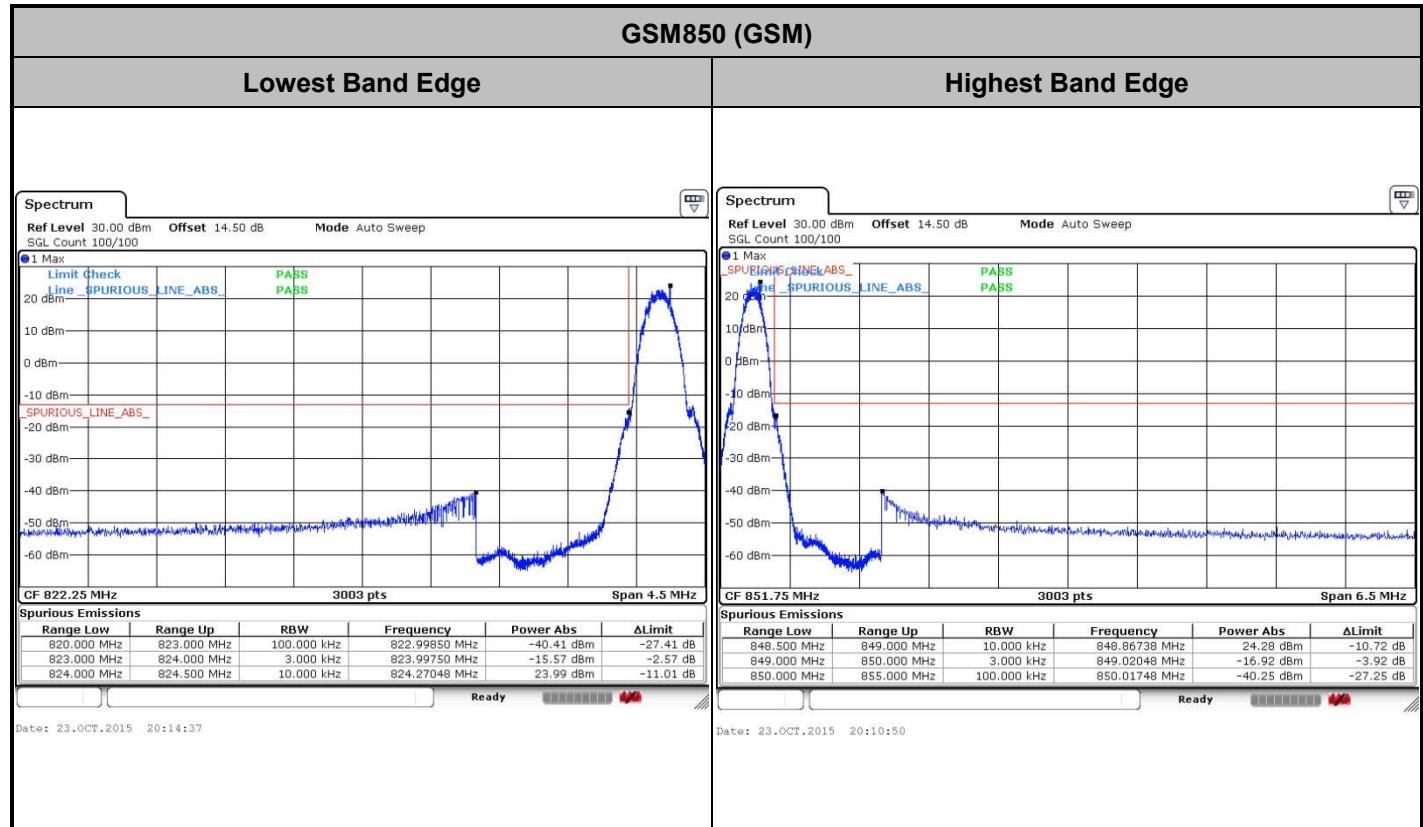


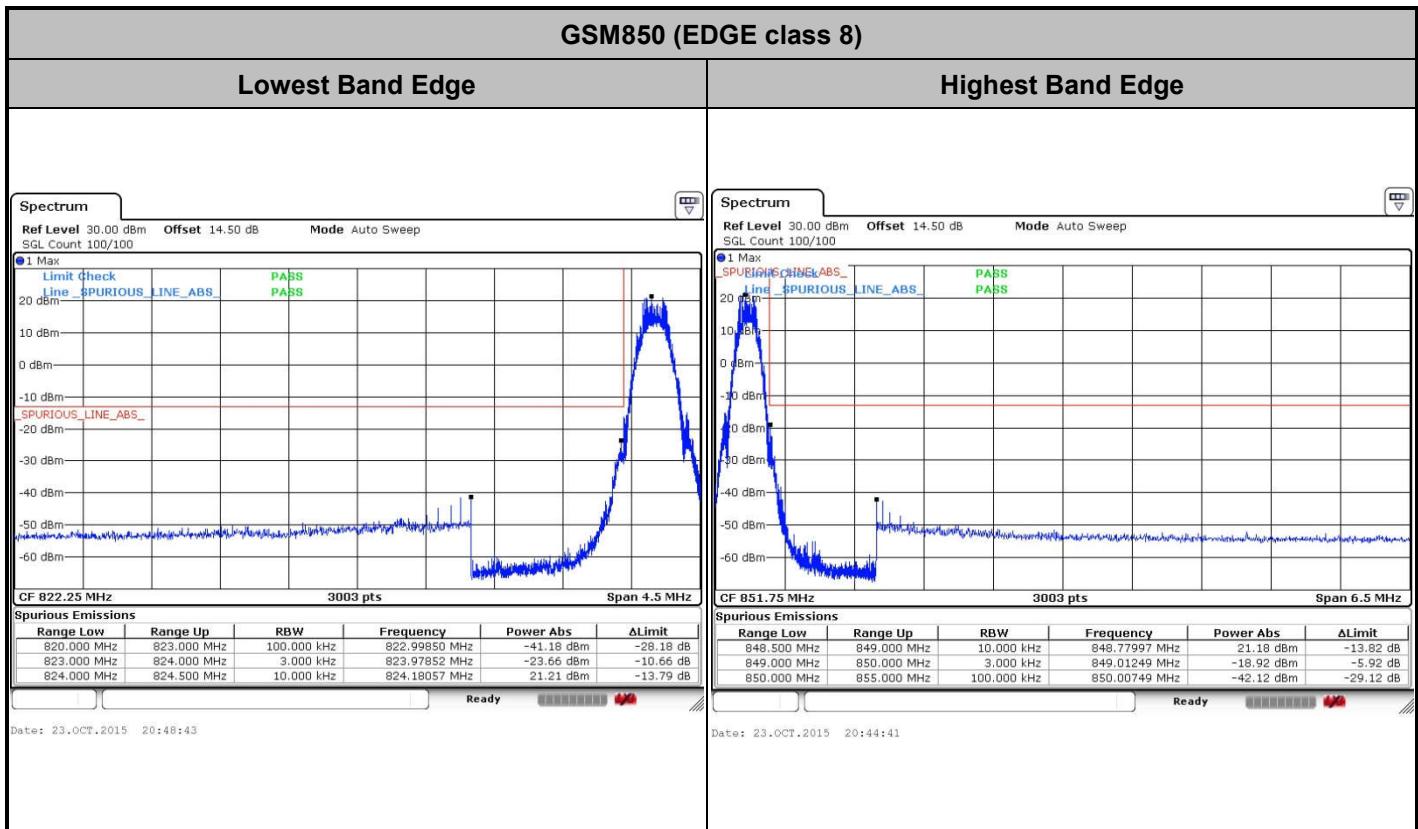


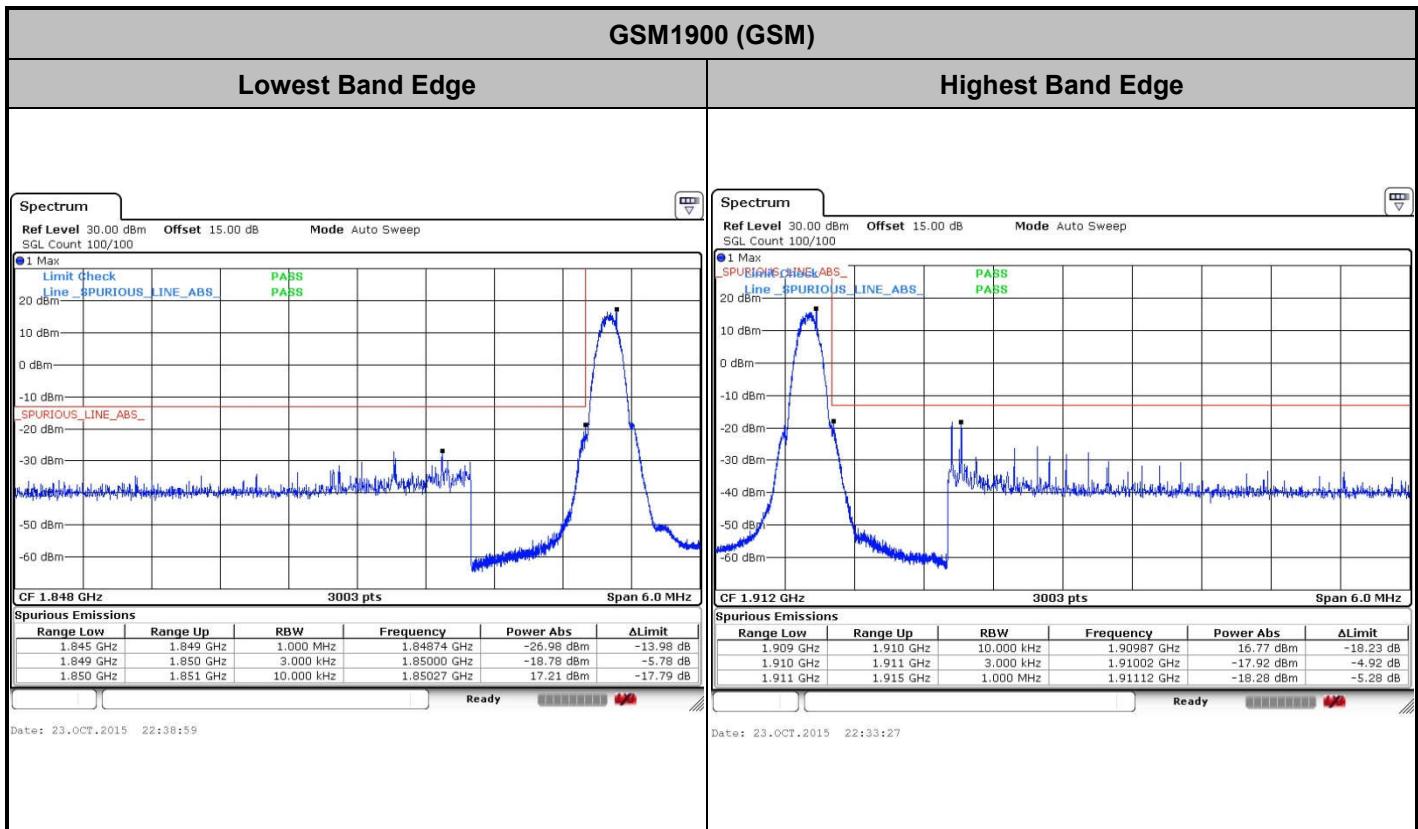


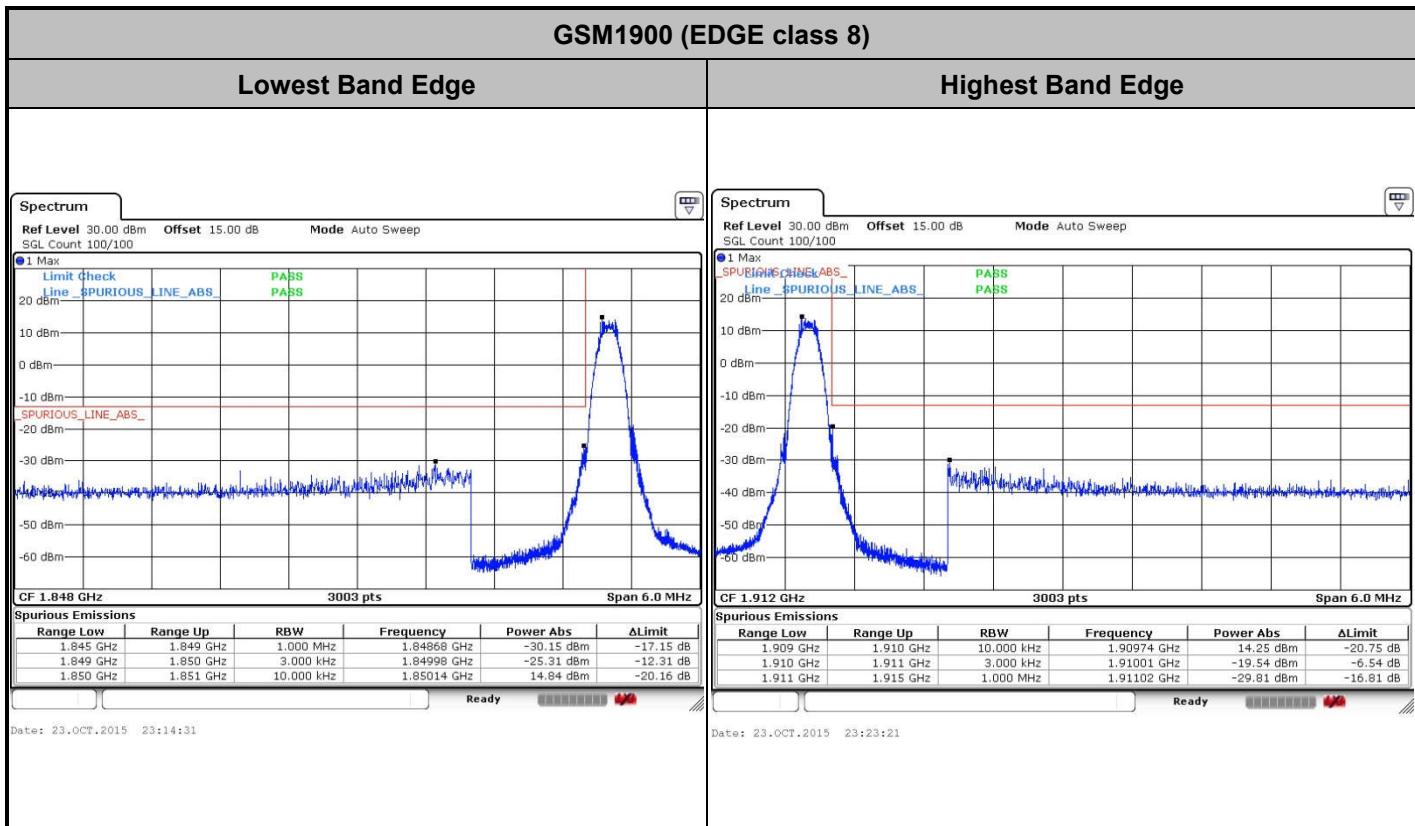


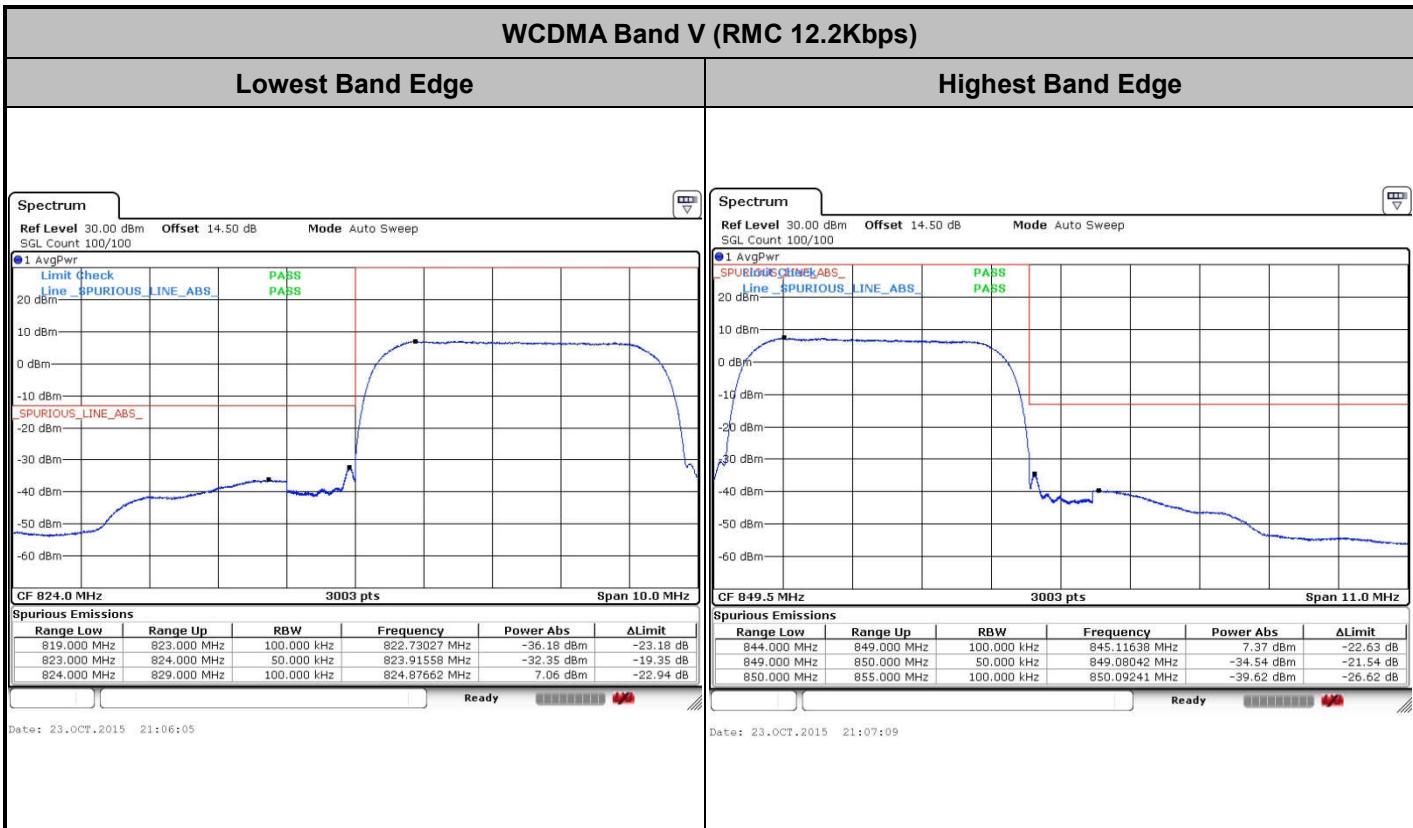
Conducted Band Edge

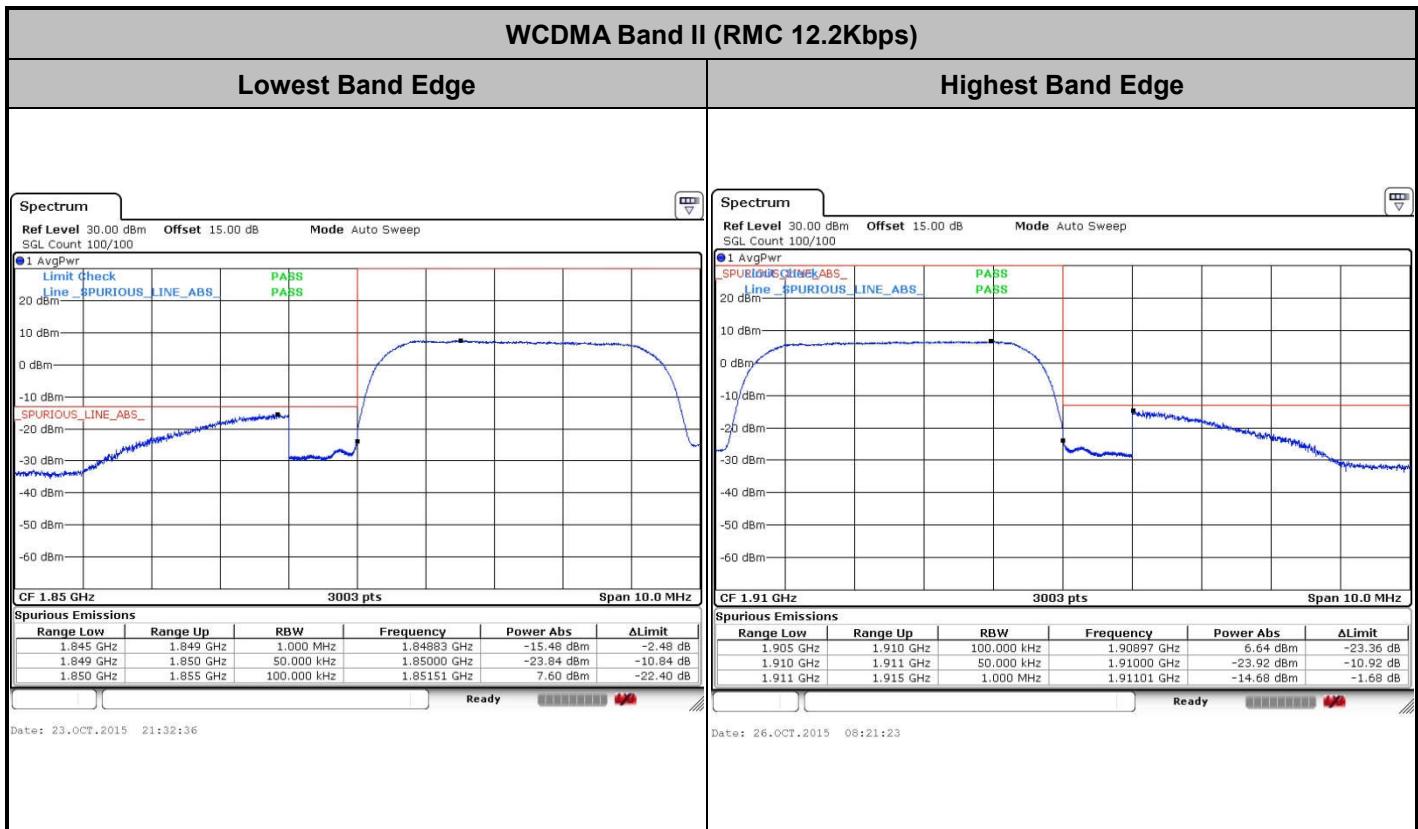


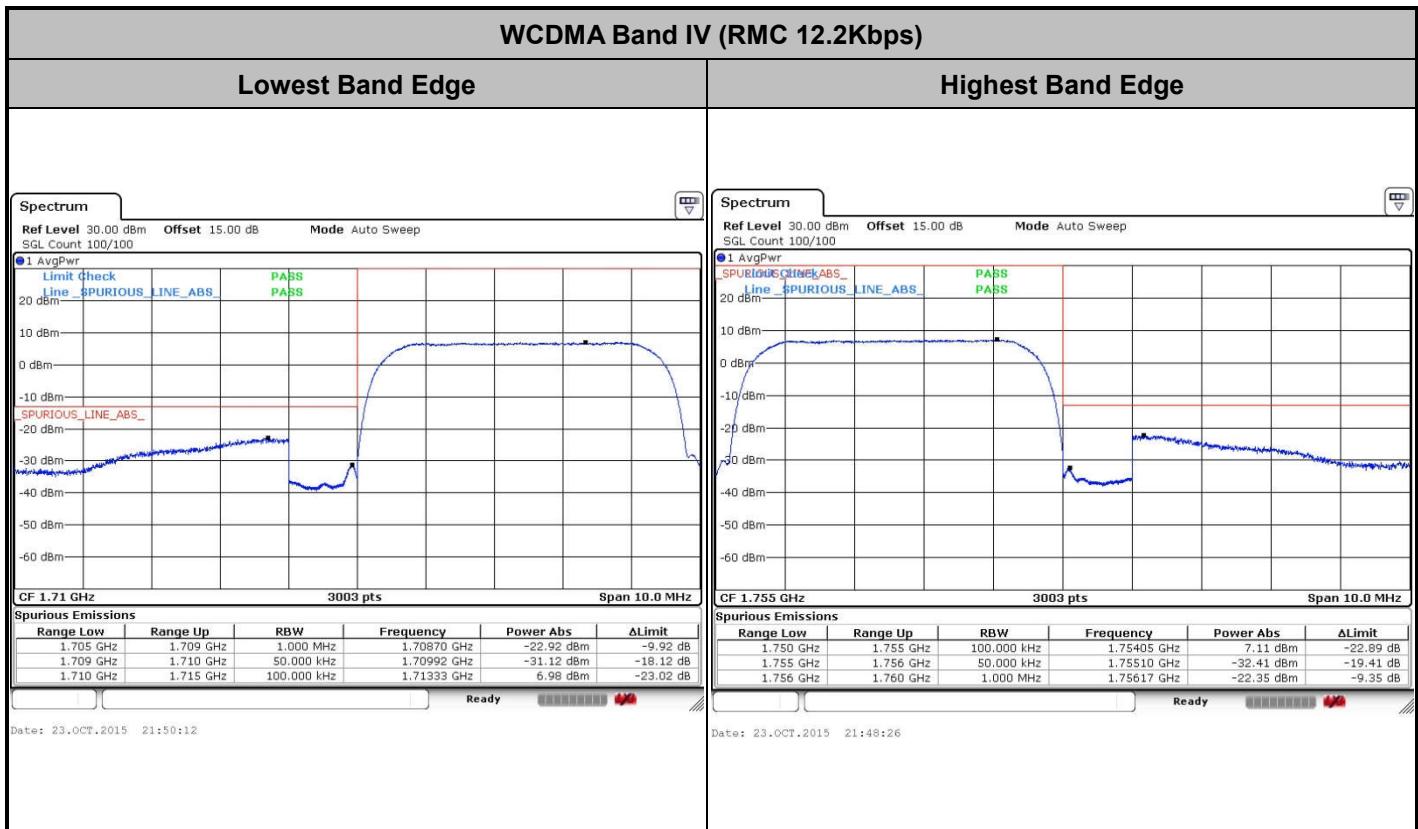






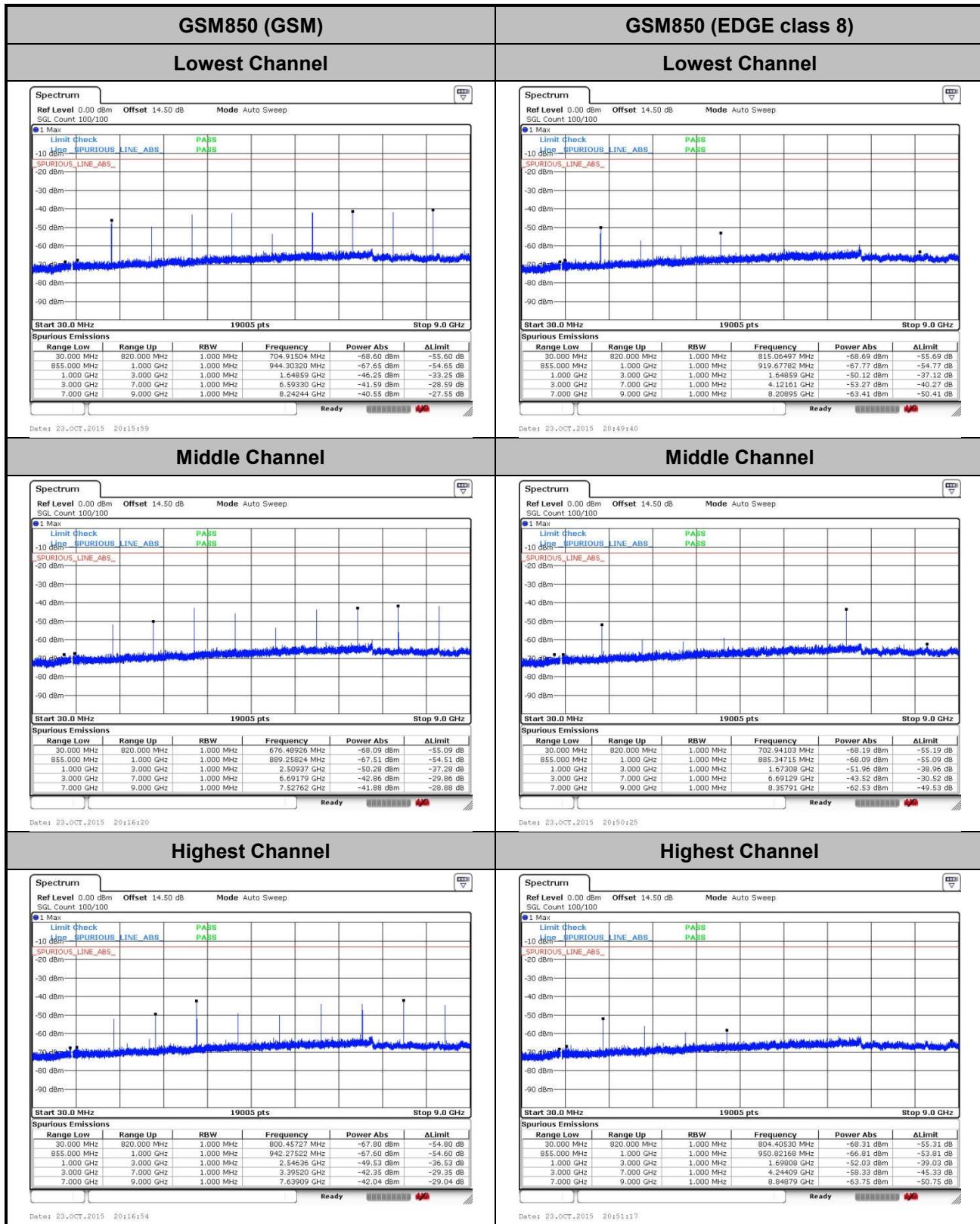


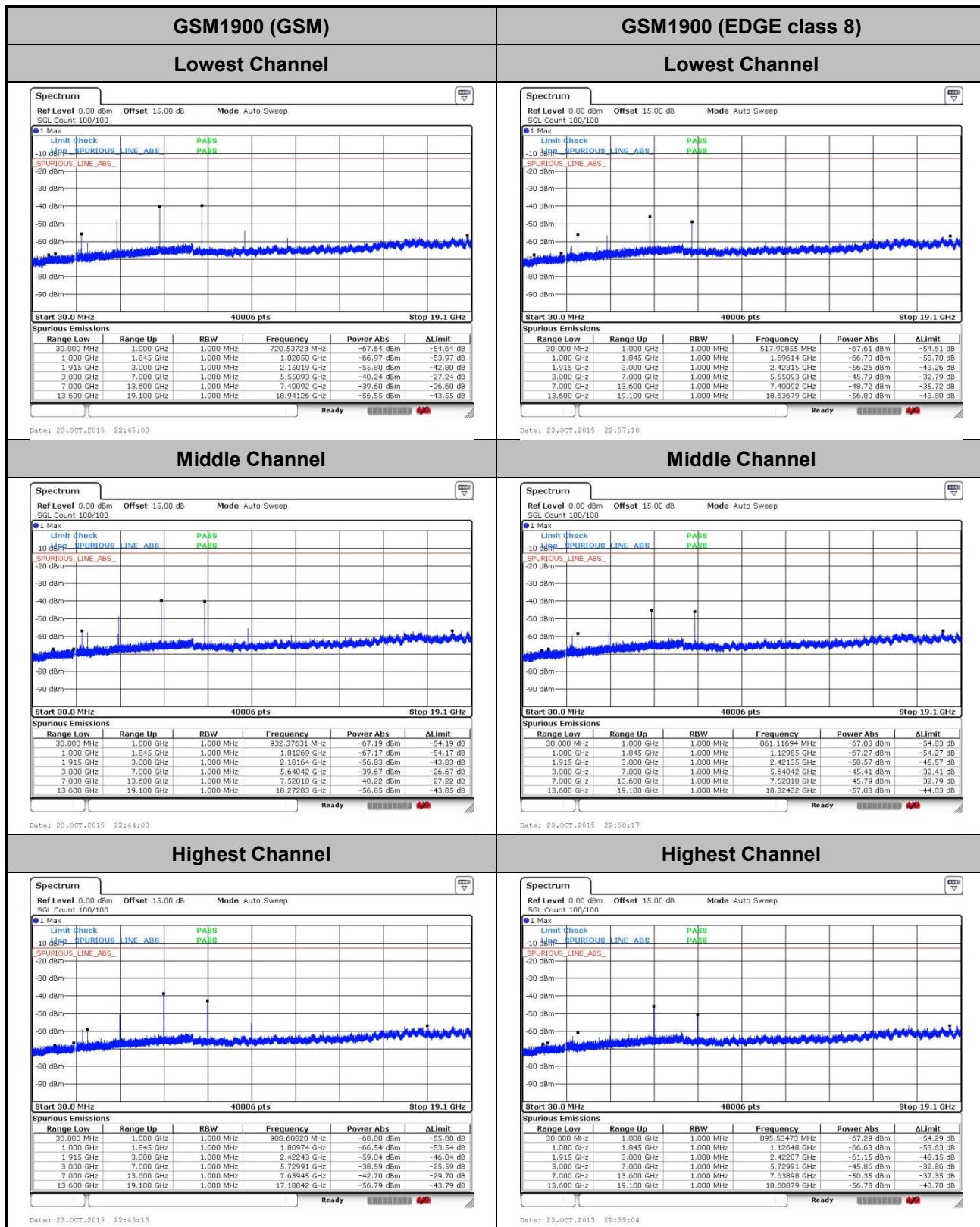


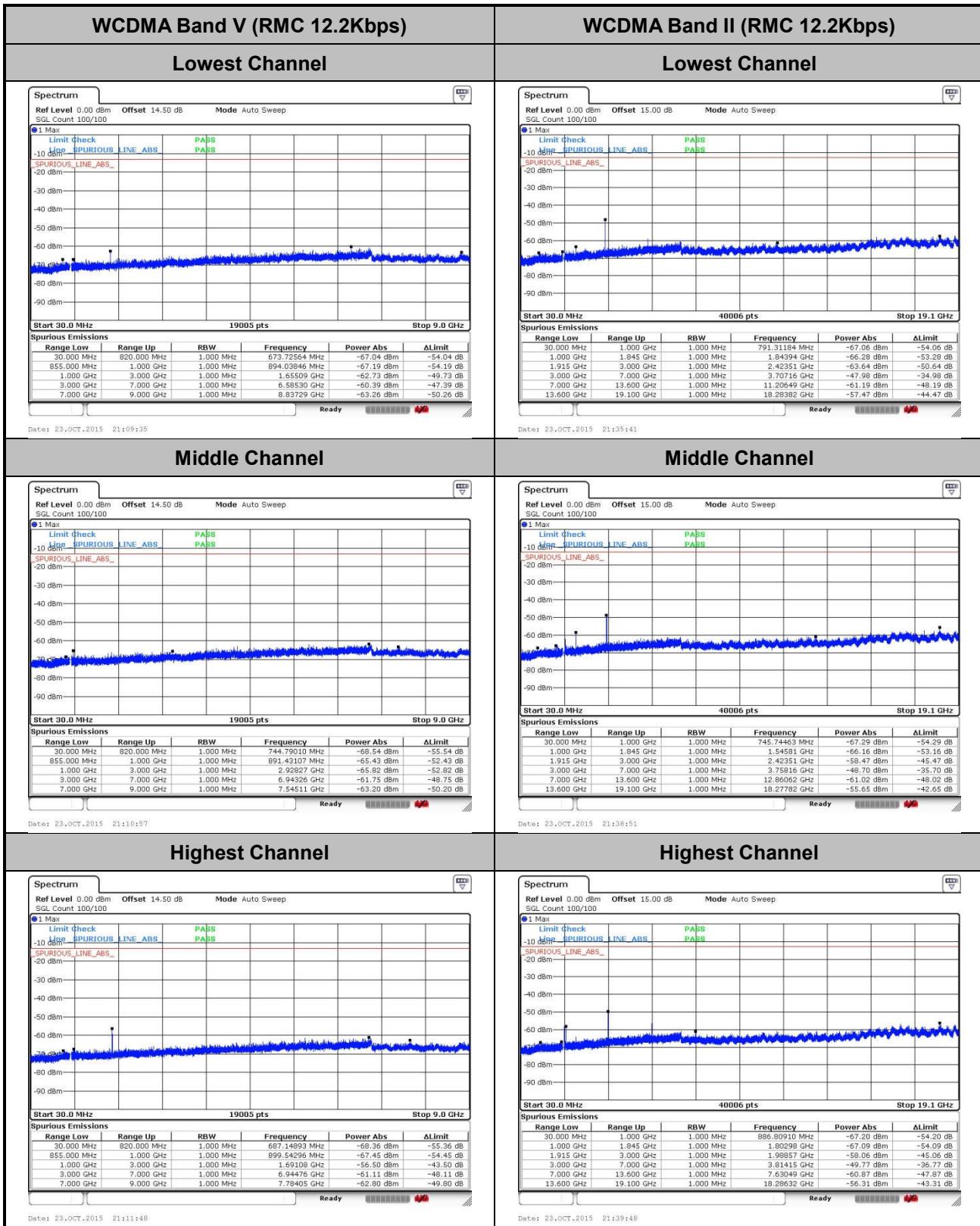


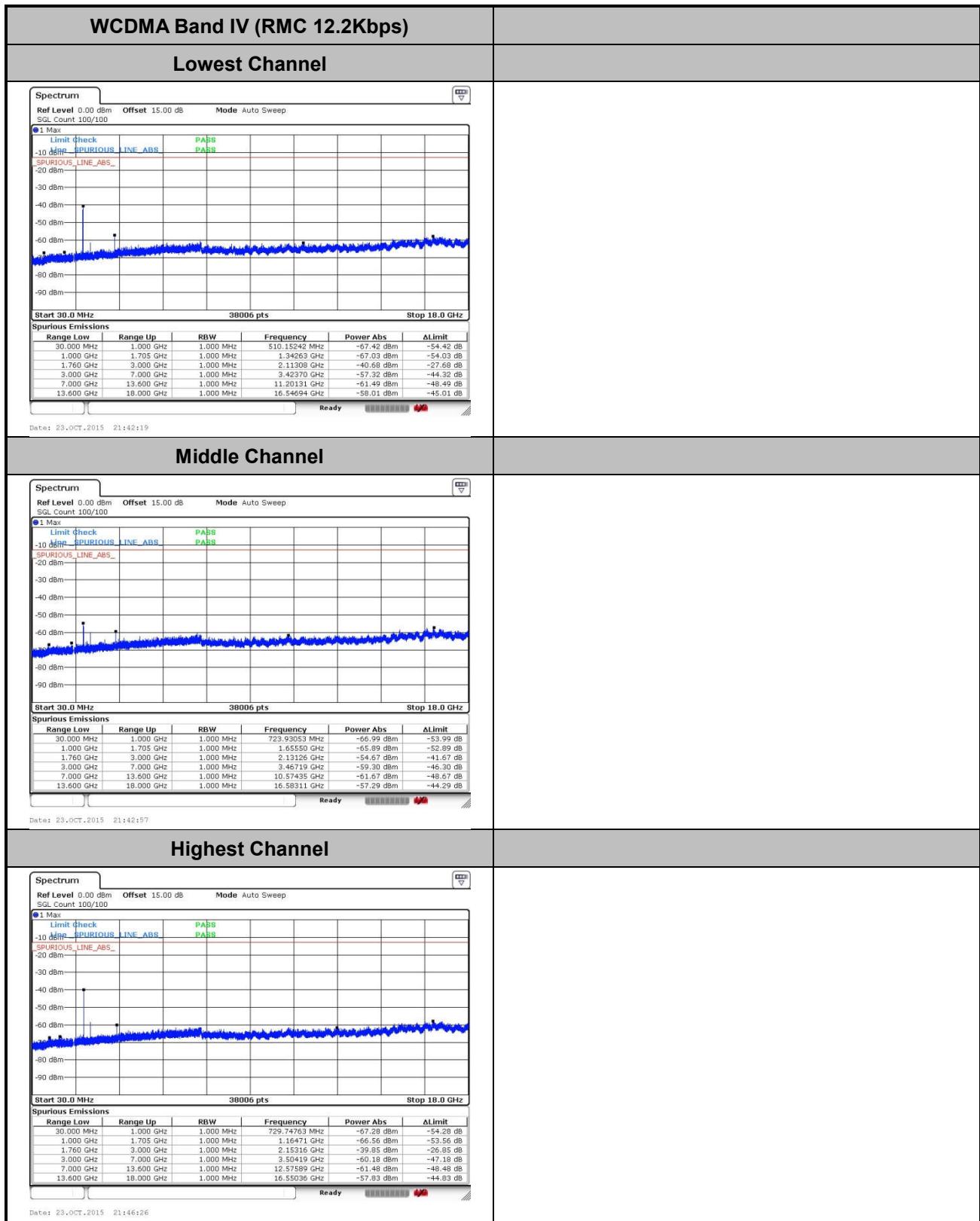


Conducted Spurious Emission











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	0.0395	0.0215	PASS
40	Normal Voltage	0.0048	0.0155	
30	Normal Voltage	0.0024	0.0096	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0036	0.0024	
0	Normal Voltage	0.0347	0.0096	
-10	Normal Voltage	0.0407	0.0155	
-20	Normal Voltage	0.0383	0.0132	
-30	Normal Voltage	0.0395	0.0143	
20	Maximum Voltage	0.0012	0.0036	
20	Normal Voltage	0.0000	0.0000	
20	Battery End Point	0.0012	0.0060	



Test Conditions	Middle Channel	GSM1900 (GSM)	GSM1900 (EDGE class 8)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		Result
50	Normal Voltage	0.0064	0.0069	PASS
40	Normal Voltage	0.0027	0.0043	
30	Normal Voltage	0.0043	0.0016	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0021	0.0037	
0	Normal Voltage	0.0346	0.0027	
-10	Normal Voltage	0.0367	0.0340	
-20	Normal Voltage	0.0378	0.0420	
-30	Normal Voltage	0.0005	0.0431	
20	Maximum Voltage	0.0011	0.0016	
20	Normal Voltage	0.0000	0.0000	
20	Battery End Point	0.0011	0.0011	

Note:

1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.5 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 Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0060	PASS
40	Normal Voltage	0.0048	
30	Normal Voltage	0.0024	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0084	
0	Normal Voltage	0.0024	
-10	Normal Voltage	0.0072	
-20	Normal Voltage	0.0096	
-30	Normal Voltage	0.0108	
20	Maximum Voltage	0.0048	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0108	



Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0016	PASS
40	Normal Voltage	0.0027	
30	Normal Voltage	0.0021	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0011	
0	Normal Voltage	0.0005	
-10	Normal Voltage	0.0037	
-20	Normal Voltage	0.0043	
-30	Normal Voltage	0.0032	
20	Maximum Voltage	0.0016	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0011	



Test Conditions	Middle Channel	WCDMA Band IV (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0040	PASS
40	Normal Voltage	0.0029	
30	Normal Voltage	0.0012	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0012	
0	Normal Voltage	0.0023	
-10	Normal Voltage	0.0098	
-20	Normal Voltage	0.0110	
-30	Normal Voltage	0.0127	
20	Maximum Voltage	0.0006	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0006	

Note:

1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.5 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 Radiated Test

ERP/EIRP

Channel	Mode	Horizontal		Vertical	
		ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	GSM850 GSM	30.92	1.2359	30.85	1.2162
Middle		30.50	1.1220	29.76	0.9462
Highest		30.77	1.1940	29.13	0.8185
Lowest	GSM850 EDGE class 8	21.44	0.1393	23.65	0.2317
Middle		21.90	0.1549	22.70	0.1862
Highest		22.18	0.1652	22.64	0.1837
Lowest	WCDMA Band V RMC 12.2Kbps	20.07	0.1016	18.79	0.0757
Middle		20.74	0.1186	18.09	0.0644
Highest		21.36	0.1368	17.81	0.0604
Limit	ERP < 7W	Result		PASS	



Channel	Mode	Horizontal		Vertical	
		EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	GSM1900 GSM	28.83	0.7638	30.79	1.1995
Middle		30.76	1.1912	29.22	0.8356
Highest		28.68	0.7379	30.67	1.1668
Lowest	GSM1900 EDGE class 8	26.23	0.4198	27.03	0.5047
Middle		27.20	0.5248	26.02	0.3999
Highest		25.98	0.3963	27.41	0.5508
Lowest	WCDMA Band II RMC 12.2Kbps	20.65	0.1161	22.20	0.1660
Middle		22.65	0.1841	21.31	0.1352
Highest		21.99	0.1581	23.57	0.2275
Limit	EIRP < 2W	Result		PASS	

Channel	Mode	Horizontal		Vertical	
		EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	WCDMA Band IV RMC 12.2Kbps	21.28	0.1343	20.27	0.1064
Middle		21.83	0.1524	24.00	0.2512
Highest		20.95	0.1245	23.38	0.2178
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)
Lowest	1648.4	-36.76	-13	-23.76	-48.36	-43.44	0.57	9.40	H
	2472.6	-38.75	-13	-25.75	-54.85	-46.46	0.74	10.60	H
	3296.8	-44.32	-13	-31.32	-61.27	-53.92	0.85	12.60	H
	1648.4	-32.16	-13	-19.16	-43.32	-38.84	0.57	9.40	V
	2472.6	-38.02	-13	-25.02	-54.57	-45.73	0.74	10.60	V
	3296.8	-46.94	-13	-33.94	-62.39	-56.54	0.85	12.60	V
Middle	1672	-39.02	-13	-26.02	-50.36	-45.70	0.57	9.40	H
	2510	-42.37	-13	-29.37	-57.79	-50.08	0.74	10.60	H
	3346	-51.03	-13	-38.03	-66.63	-60.63	0.85	12.60	H
	1672	-39.99	-13	-26.99	-50.72	-46.67	0.57	9.40	V
	2510	-49.57	-13	-36.57	-62.81	-57.28	0.74	10.60	V
	3346	-54.07	-13	-41.07	-68.68	-63.67	0.85	12.60	V
Highest	1697.6	-47.23	-13	-34.23	-57.10	-53.91	0.57	9.40	H
	2546.4	-52.61	-13	-39.61	-64.89	-60.32	0.74	10.60	H
	3395.2	-52.84	-13	-39.84	-68.44	-62.44	0.85	12.60	H
	1697.6	-54.72	-13	-41.72	-61.66	-61.40	0.57	9.40	V
	2546.4	-58.14	-13	-45.14	-69.64	-65.85	0.74	10.60	V
	3395.2	-53.47	-13	-40.47	-68.08	-63.07	0.85	12.60	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)
Lowest	1648.4	-43.77	-13	-30.77	-54.49	-50.45	0.57	9.40	H
	2472.6	-51.38	-13	-38.38	-63.90	-59.09	0.74	10.60	H
	3296.8	-54.24	-13	-41.24	-69.84	-63.84	0.85	12.60	H
	1648.4	-42.54	-13	-29.54	-52.86	-49.22	0.57	9.40	V
	2472.6	-52.24	-13	-39.24	-64.28	-59.95	0.74	10.60	V
	3296.8	-56.42	-13	-43.42	-71.03	-66.02	0.85	12.60	V
Middle	1672	-52.23	-13	-39.23	-60.39	-58.91	0.57	9.40	H
	2510	-55.30	-13	-42.30	-67.58	-63.01	0.74	10.60	H
	3346	-53.31	-13	-40.31	-68.91	-62.91	0.85	12.60	H
	1672	-54.47	-13	-41.47	-61.51	-61.15	0.57	9.40	V
	2510	-57.58	-13	-44.58	-69.08	-65.29	0.74	10.60	V
	3346	-54.23	-13	-41.23	-68.84	-63.83	0.85	12.60	V
Highest	1697.6	-58.98	-13	-45.98	-66.55	-65.66	0.57	9.40	H
	2546.4	-57.32	-13	-44.32	-69.60	-65.03	0.74	10.60	H
	3395.2	-55.55	-13	-42.55	-71.15	-65.15	0.85	12.60	H
	1697.6	-61.10	-13	-48.10	-67.93	-67.78	0.57	9.40	V
	2546.4	-58.71	-13	-45.71	-70.21	-66.42	0.74	10.60	V
	3395.2	-57.15	-13	-44.15	-71.76	-66.75	0.85	12.60	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)
Lowest	3700.4	-44.92	-13	-31.92	-65.25	-56.65	0.87	12.60	H
	5550.6	-44.07	-13	-31.07	-66.94	-56.10	1.07	13.10	H
	7400.8	-50.61	-13	-37.61	-75.74	-60.22	1.69	11.30	H
	3700.4	-44.34	-13	-31.34	-65.9	-56.07	0.87	12.6	V
	5550.6	-41.62	-13	-28.62	-64.37	-53.65	1.07	13.1	V
	7400.8	-48.63	-13	-35.63	-73.54	-58.06	1.87	11.3	V
Middle	3760	-37.93	-13	-24.93	-59.75	-49.66	0.87	12.60	H
	5640	-42.21	-13	-29.21	-65.08	-54.24	1.07	13.10	H
	7520	-50.84	-13	-37.84	-75.97	-60.45	1.69	11.30	H
	3760	-39.10	-13	-26.10	-61.8	-50.83	0.87	12.6	V
	5640	-43.55	-13	-30.55	-66.3	-55.58	1.07	13.1	V
	7520	-49.11	-13	-36.11	-74.02	-58.54	1.87	11.3	V
Highest	3819.6	-37.36	-13	-24.36	-59.34	-49.09	0.87	12.60	H
	5729.4	-44.70	-13	-31.70	-67.57	-56.73	1.07	13.10	H
	7639.2	-50.14	-13	-37.14	-75.27	-59.75	1.69	11.30	H
	3819.6	-44.40	-13	-31.40	-65.96	-56.13	0.87	12.6	V
	5729.4	-44.54	-13	-31.54	-67.29	-56.57	1.07	13.1	V
	7639.2	-50.73	-13	-37.73	-75.64	-60.16	1.87	11.3	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)
Lowest	3700.4	-41.70	-13	-28.70	-62.16	-53.43	0.87	12.60	H
	5550.6	-45.56	-13	-32.56	-68.43	-57.59	1.07	13.10	H
	7400.8	-50.23	-13	-37.23	-75.36	-59.84	1.69	11.30	H
	3700.4	-41.49	-13	-28.49	-63.17	-53.22	0.87	12.6	V
	5550.6	-47.16	-13	-34.16	-69.91	-59.19	1.07	13.1	V
	7400.8	-51.02	-13	-38.02	-75.93	-60.45	1.87	11.3	V
Middle	3760	-39.69	-13	-26.69	-61.14	-51.42	0.87	12.60	H
	5640	-48.36	-13	-35.36	-71.23	-60.39	1.07	13.10	H
	7520	-50.74	-13	-37.74	-75.87	-60.35	1.69	11.30	H
	3760	-42.51	-13	-29.51	-64.07	-54.24	0.87	12.6	V
	5640	-44.85	-13	-31.85	-67.6	-56.88	1.07	13.1	V
	7520	-50.40	-13	-37.40	-75.31	-59.83	1.87	11.3	V
Highest	3819.6	-43.44	-13	-30.44	-63.77	-55.17	0.87	12.60	H
	5729.4	-48.88	-13	-35.88	-71.75	-60.91	1.07	13.10	H
	7639.2	-50.80	-13	-37.80	-75.93	-60.41	1.69	11.30	H
	3819.6	-45.84	-13	-32.84	-67.4	-57.57	0.87	12.6	V
	5729.4	-45.51	-13	-32.51	-68.26	-57.54	1.07	13.1	V
	7639.2	-50.33	-13	-37.33	-75.24	-59.76	1.87	11.3	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)
Lowest	1648.4	-56.88	-13	-43.88	-64.45	-63.56	0.57	9.40	H
	2472.6	-55.66	-13	-42.66	-67.94	-63.37	0.74	10.60	H
	3296.8	-55.56	-13	-42.56	-71.16	-65.16	0.85	12.60	H
	1648.4	-60.65	-13	-47.65	-67.48	-67.33	0.57	9.40	V
	2472.6	-58.64	-13	-45.64	-70.14	-66.35	0.74	10.60	V
	3296.8	-56.91	-13	-43.91	-71.52	-66.51	0.85	12.60	V
Middle	1672	-56.92	-13	-43.92	-64.49	-63.60	0.57	9.40	H
	2510	-57.59	-13	-44.59	-69.87	-65.30	0.74	10.60	H
	3346	-55.83	-13	-42.83	-71.43	-65.43	0.85	12.60	H
	1672	-60.85	-13	-47.85	-67.68	-67.53	0.57	9.40	V
	2510	-58.51	-13	-45.51	-70.01	-66.22	0.74	10.60	V
	3346	-57.13	-13	-44.13	-71.74	-66.73	0.85	12.60	V
Highest	1693.2	-58.46	-13	-45.46	-66.03	-65.14	0.57	9.40	H
	2539.8	-58.27	-13	-45.27	-70.55	-65.98	0.74	10.60	H
	3386.4	-56.16	-13	-43.16	-71.76	-65.76	0.85	12.60	H
	1693.2	-62.53	-13	-49.53	-69.36	-69.21	0.57	9.40	V
	2539.8	-59.24	-13	-46.24	-70.74	-66.95	0.74	10.60	V
	3386.4	-56.83	-13	-43.83	-71.44	-66.43	0.85	12.60	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)
Lowest	3704.8	-51.70	-13	-38.70	-72.03	-63.43	0.87	12.60	H
	5557.2	-50.29	-13	-37.29	-73.16	-62.32	1.07	13.10	H
	7409.6	-50.40	-13	-37.40	-75.53	-60.01	1.69	11.30	H
	3704.8	-51.09	-13	-38.09	-72.65	-62.82	0.87	12.6	V
	5557.2	-50.17	-13	-37.17	-72.92	-62.20	1.07	13.1	V
	7409.6	-50.70	-13	-37.70	-75.61	-60.13	1.87	11.3	V
Middle	3760	-51.44	-13	-38.44	-71.77	-63.17	0.87	12.60	H
	5640	-50.12	-13	-37.12	-72.99	-62.15	1.07	13.10	H
	7520	-50.79	-13	-37.79	-75.92	-60.40	1.69	11.30	H
	3760	-51.17	-13	-38.17	-72.73	-62.90	0.87	12.6	V
	5640	-48.95	-13	-35.95	-71.7	-60.98	1.07	13.1	V
	7520	-51.37	-13	-38.37	-76.28	-60.80	1.87	11.3	V
Highest	3815.2	-51.62	-13	-38.62	-71.95	-63.35	0.87	12.60	H
	5722.8	-49.20	-13	-36.20	-72.07	-61.23	1.07	13.10	H
	7630.4	-49.97	-13	-36.97	-75.10	-59.58	1.69	11.30	H
	3815.2	-51.02	-13	-38.02	-72.58	-62.75	0.87	12.6	V
	5722.8	-47.48	-13	-34.48	-70.23	-59.51	1.07	13.1	V
	7630.4	-49.88	-13	-36.88	-74.79	-59.31	1.87	11.3	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)
Lowest	3424.8	-51.70	-13	-38.70	-70.48	-63.45	0.85	12.60	H
	5137.2	-49.55	-13	-36.55	-72.84	-61.30	0.95	12.70	H
	6849.6	-50.89	-13	-37.89	-75.27	-61.41	1.18	11.70	H
	3424.8	-49.94	-13	-36.94	-71.03	-61.69	0.85	12.6	V
	5137.2	-53.36	-13	-40.36	-72.59	-65.11	0.95	12.7	V
	6849.6	-50.59	-13	-37.59	-74.9	-61.11	1.18	11.7	V
Middle	3465.2	-52.66	-13	-39.66	-71.44	-64.41	0.85	12.60	H
	5197.8	-48.92	-13	-35.92	-72.21	-60.67	0.95	12.70	H
	6930.4	-50.36	-13	-37.36	-74.74	-60.88	1.18	11.70	H
	3465.2	-49.90	-13	-36.90	-70.99	-61.65	0.85	12.6	V
	5197.8	-52.81	-13	-39.81	-72.04	-64.56	0.95	12.7	V
	6930.4	-50.60	-13	-37.60	-74.91	-61.12	1.18	11.7	V
Highest	3505.2	-52.15	-13	-39.15	-70.93	-63.90	0.85	12.60	H
	5257.8	-49.88	-13	-36.88	-73.17	-61.63	0.95	12.70	H
	7010.4	-50.70	-13	-37.70	-75.08	-61.22	1.18	11.70	H
	3505.2	-49.06	-13	-36.06	-70.15	-60.81	0.85	12.6	V
	5257.8	-53.73	-13	-40.73	-72.96	-65.48	0.95	12.7	V
	7010.4	-50.76	-13	-37.76	-75.07	-61.28	1.18	11.7	V

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



Appendix C. Test Setup Photographs