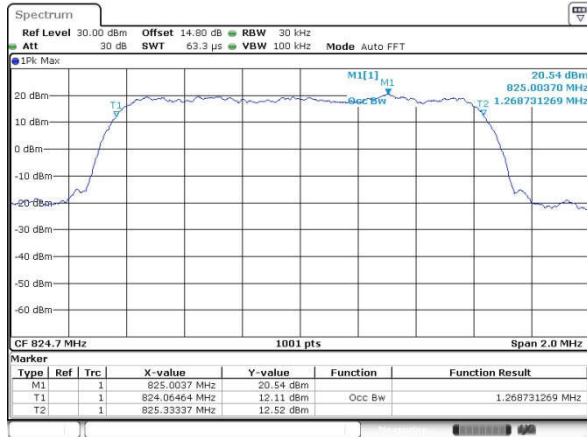




CDMA BC0 (RC1 SO55)

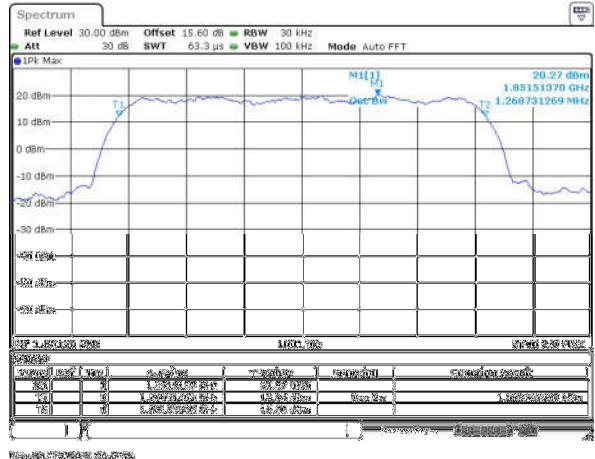
Lowest Channel



Date: 3 NOV 2016 15:38:13

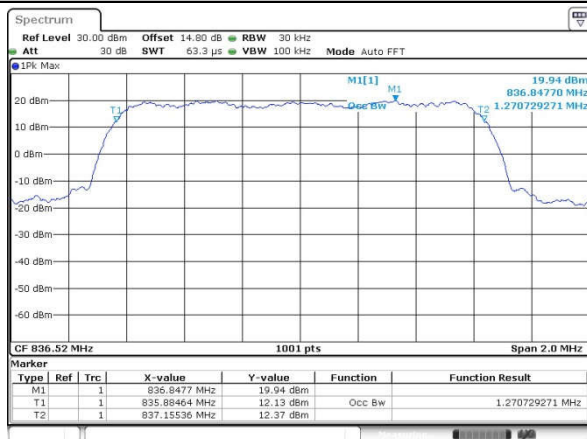
CDMA BC1 (RC1 SO55)

Lowest Channel



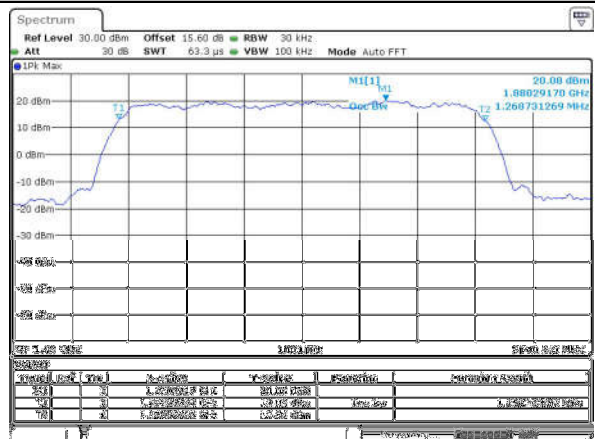
Date: 3 NOV 2016 15:38:13

Middle Channel



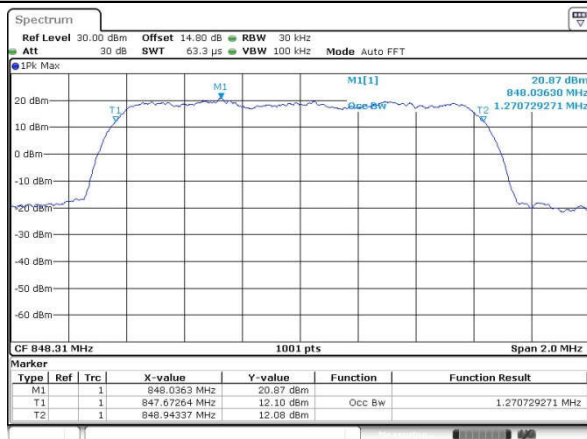
Date: 3 NOV 2016 15:38:48

Middle Channel



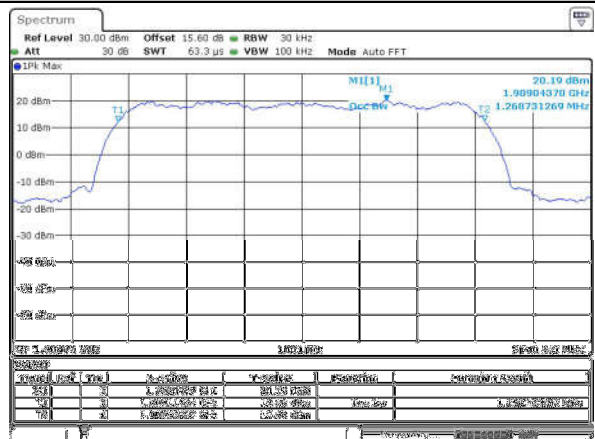
Date: 3 NOV 2016 15:38:48

Highest Channel



Date: 3 NOV 2016 15:39:22

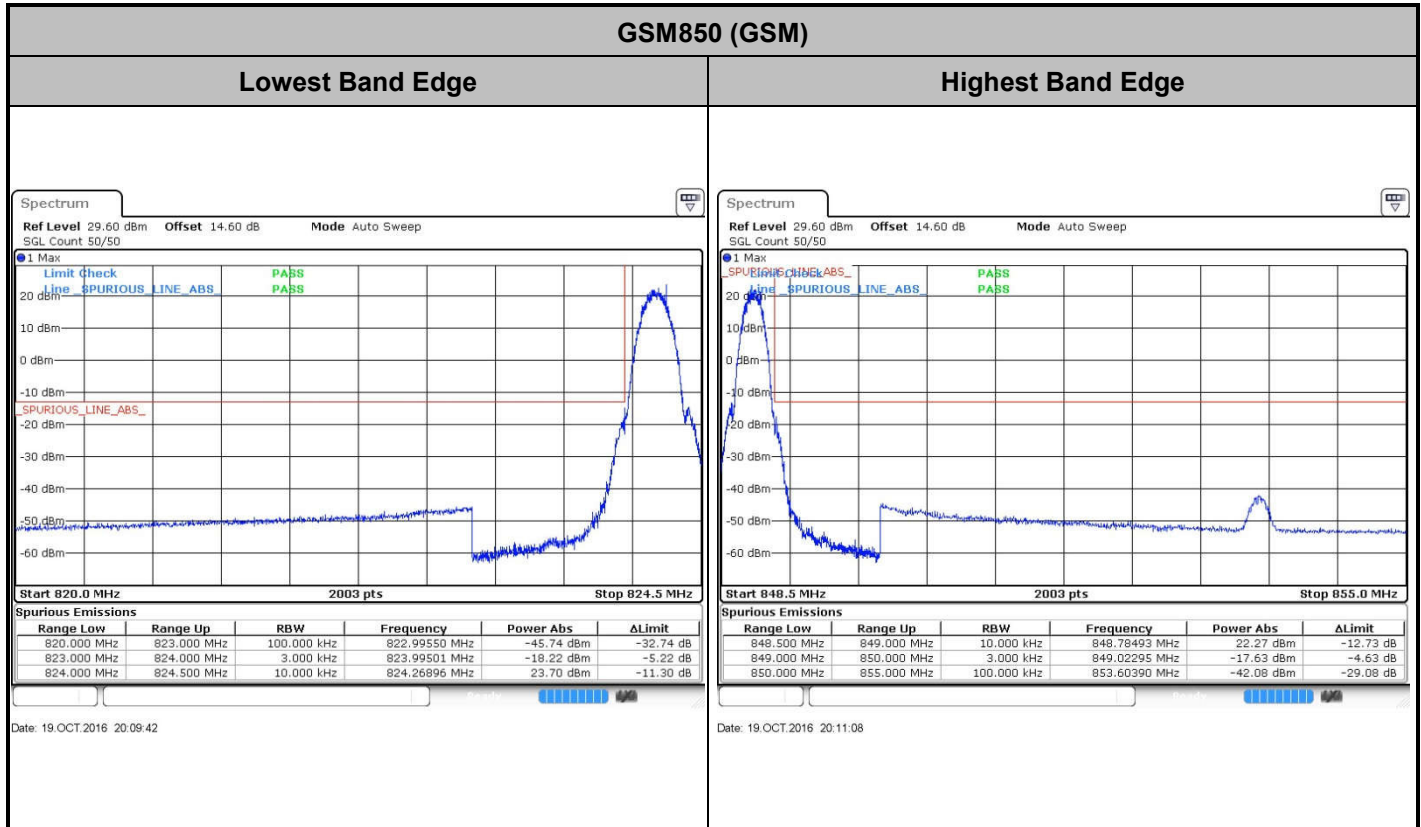
Highest Channel



Date: 3 NOV 2016 15:39:22



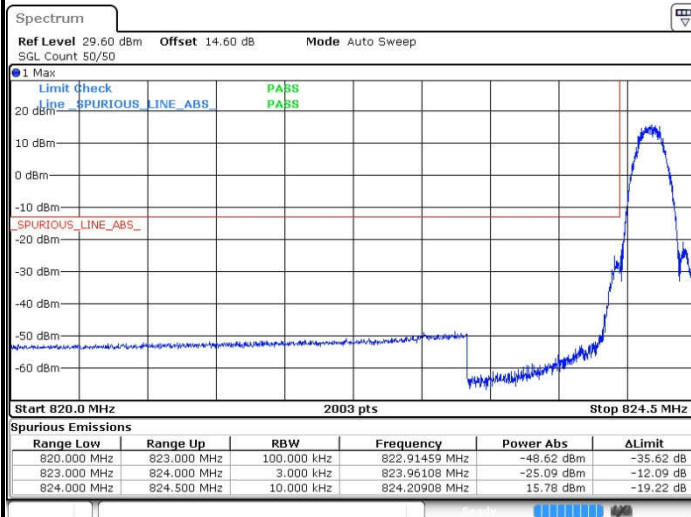
Conducted Band Edge





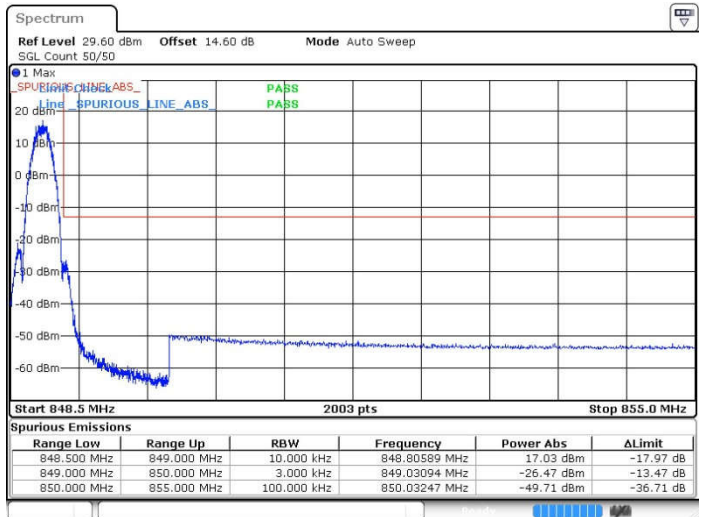
GSM850 (EDGE Class 8)

Lowest Band Edge



Date: 19.OCT.2016 20:33:39

Highest Band Edge

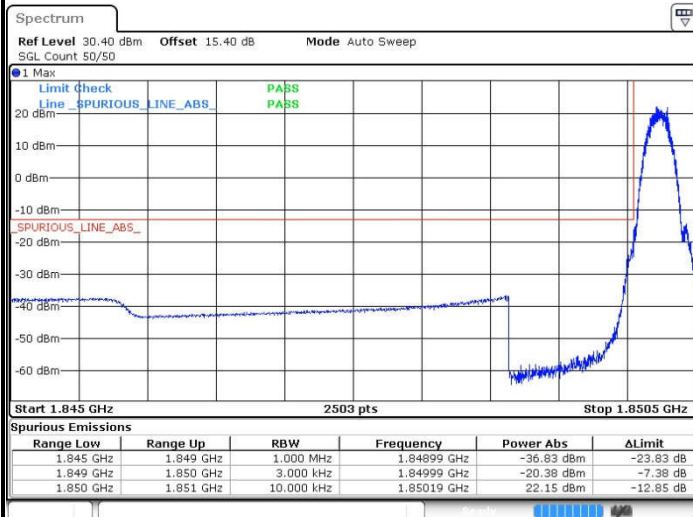


Date: 19.OCT.2016 20:35:13

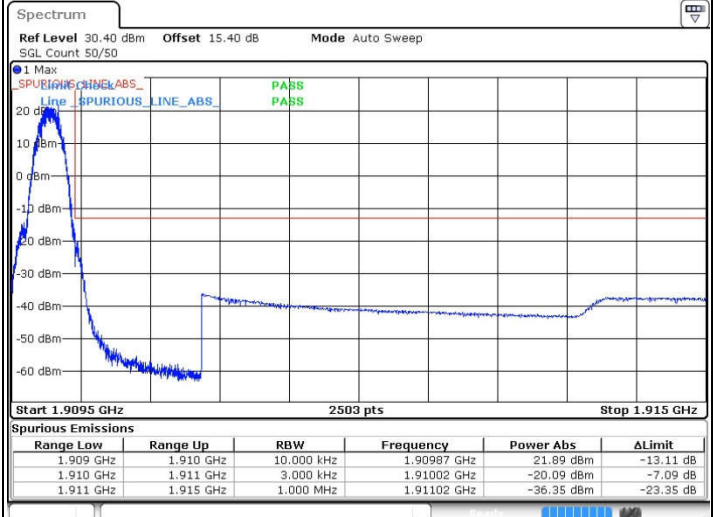


GSM1900 (GSM)

Lowest Band Edge



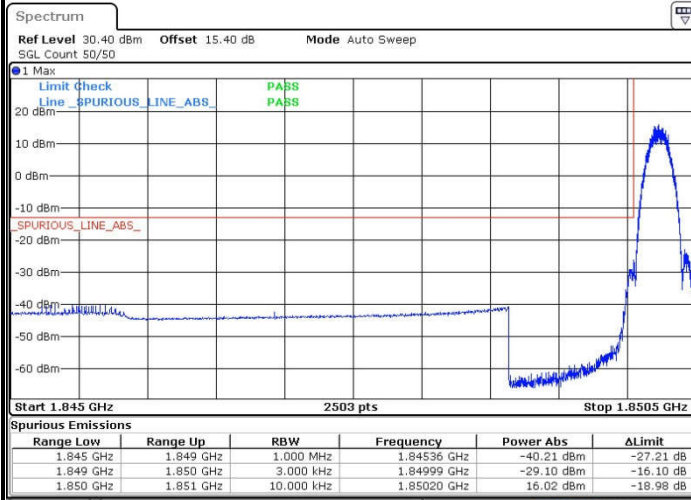
Highest Band Edge





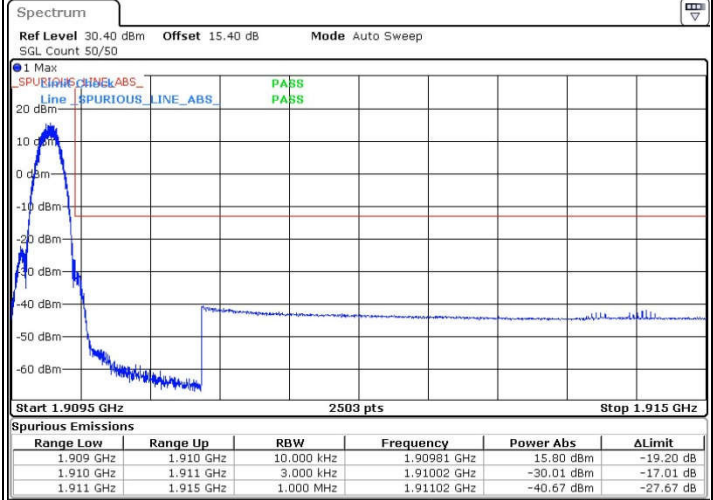
GSM1900 (EDGE Class 8)

Lowest Band Edge



Date: 19.OCT.2016 21:32:42

Highest Band Edge

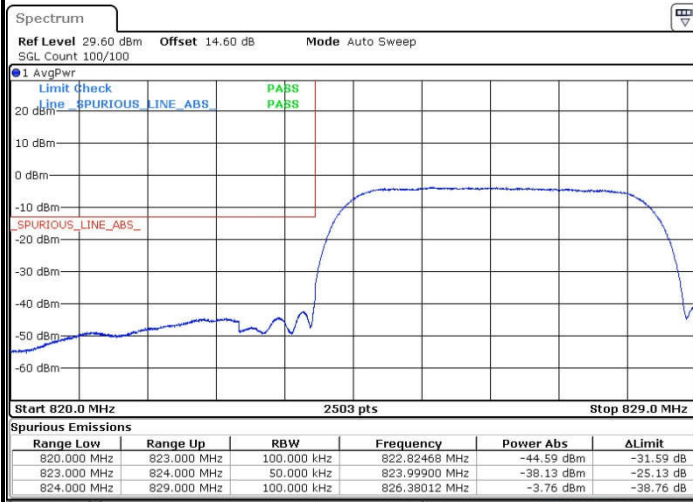


Date: 19.OCT.2016 21:34:32



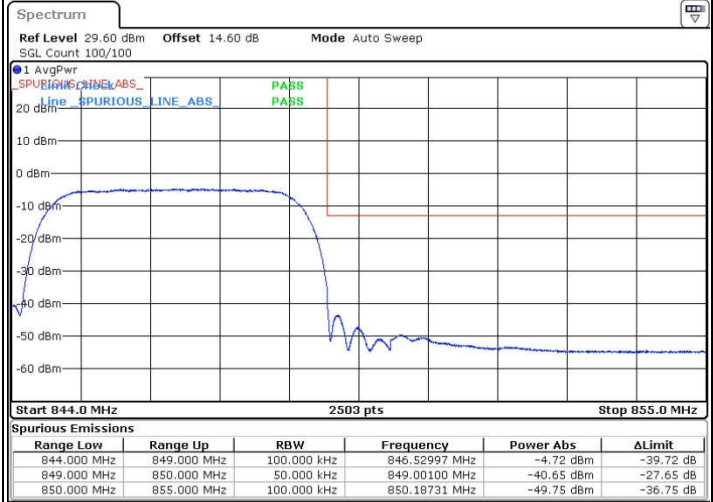
WCDMA Band V (RMC 12.2Kbps)

Lowest Band Edge



Date: 19.OCT.2016 21:53:33

Highest Band Edge

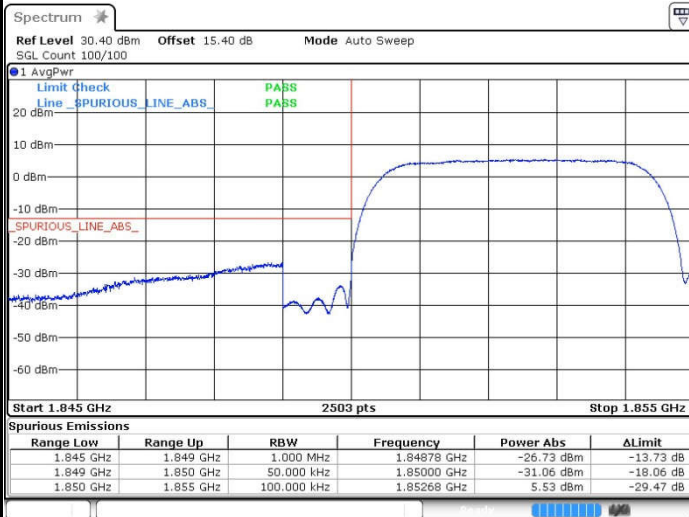


Date: 19.OCT.2016 21:56:14

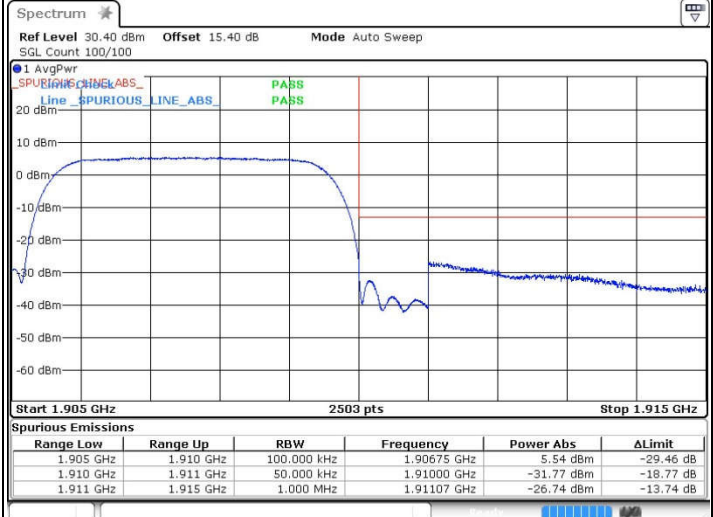


WCDMA Band II (RMC 12.2Kbps)

Lowest Band Edge

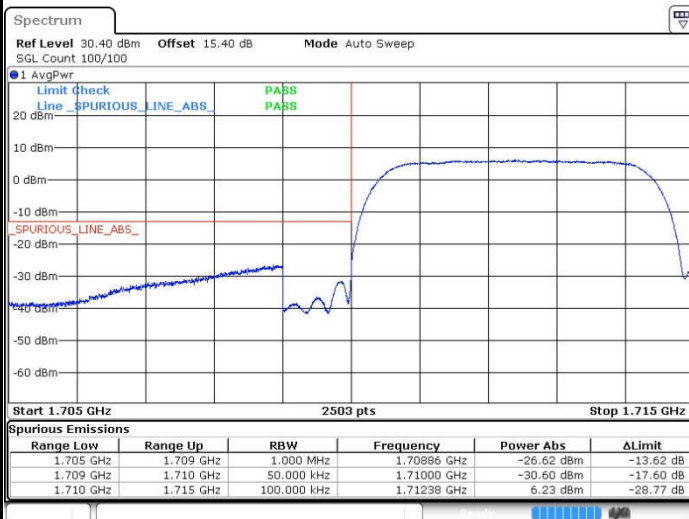


Highest Band Edge

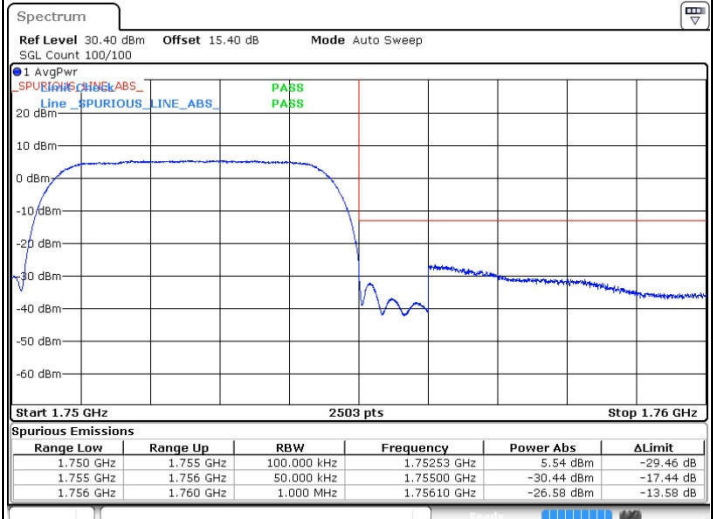


WCDMA Band IV (RMC 12.2Kbps)

Lowest Band Edge



Highest Band Edge





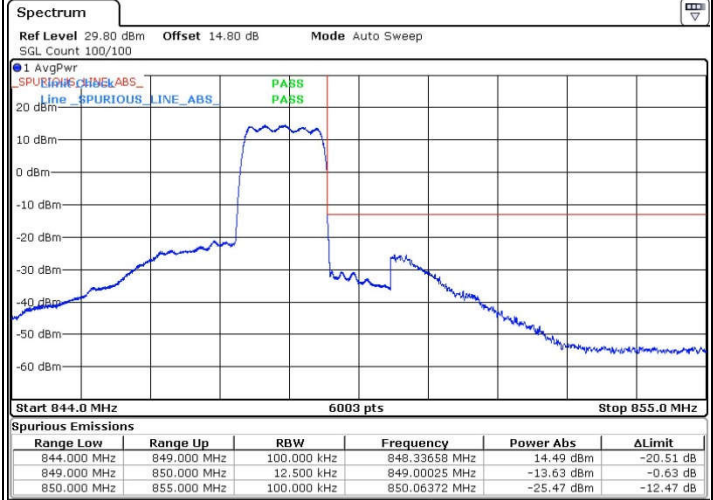
CDMA BC0 (RC1 SO55)

Lowest Band Edge



Date: 2 NOV. 2016 21:11:14

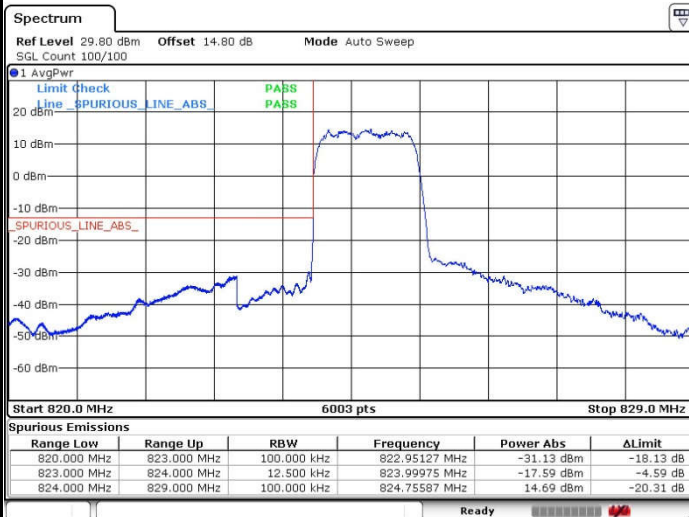
Highest Band Edge



Date: 2 NOV. 2016 20:51:15

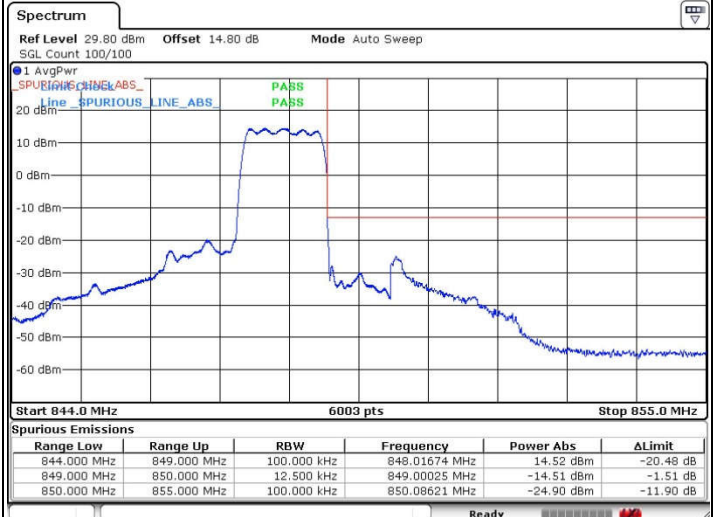
CDMA BC0 (RC3 SO55)

Lowest Band Edge



Date: 2 NOV. 2016 21:01:42

Highest Band Edge



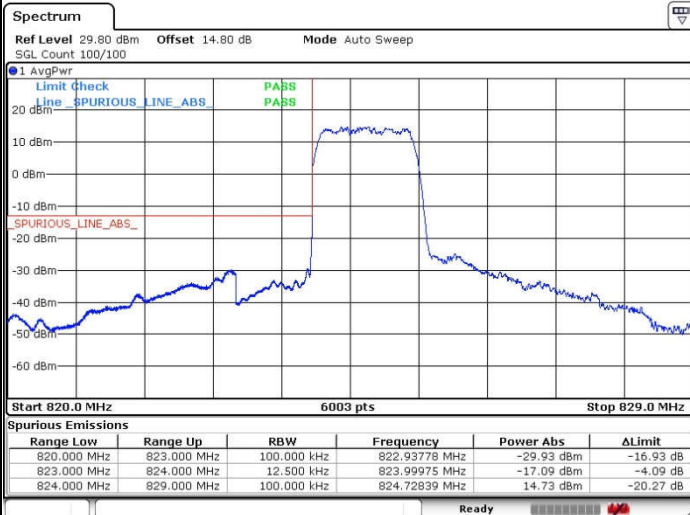
Date: 2 NOV. 2016 20:57:59



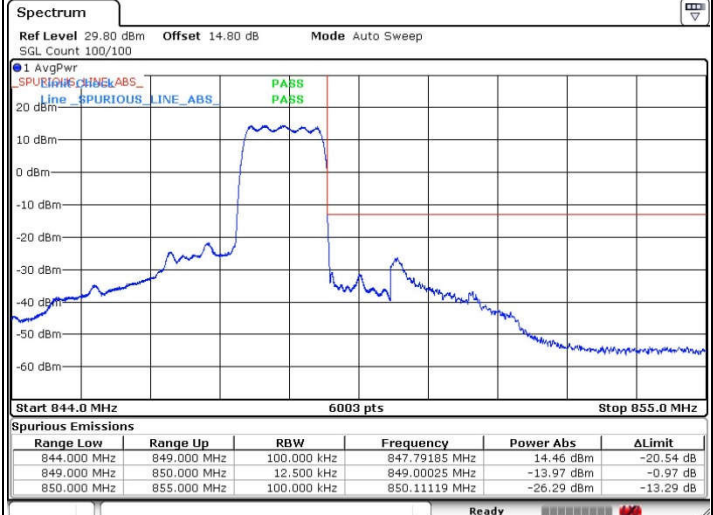
CDMA BC0 (RC3 SO32)

Lowest Band Edge

Highest Band Edge



Date: 2 NOV. 2016 21:04:52

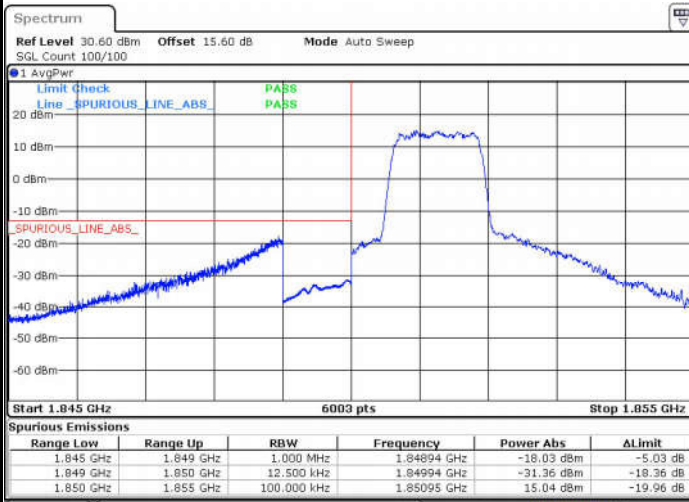


Date: 2 NOV. 2016 20:54:43

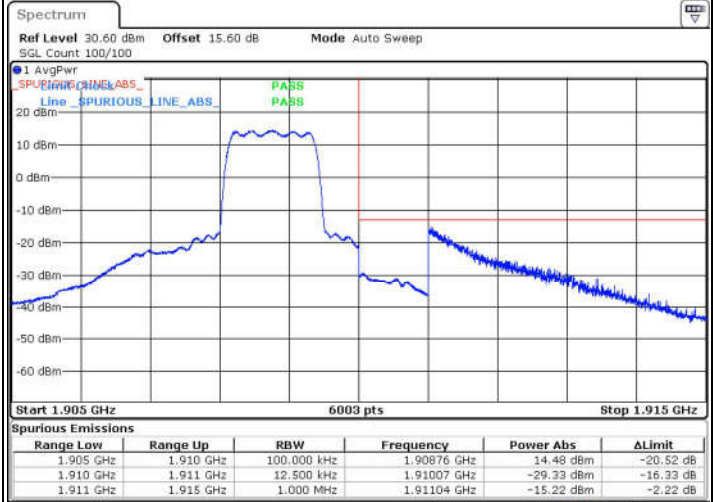


CDMA BC1 (RC1 SO55)

Lowest Band Edge

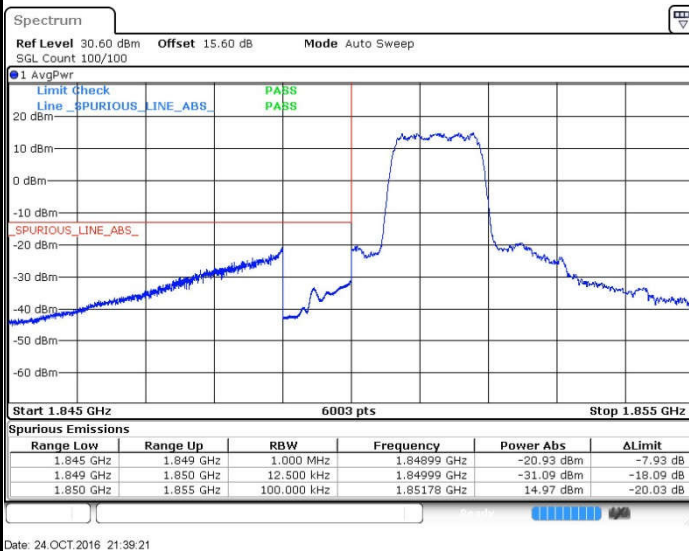


Highest Band Edge

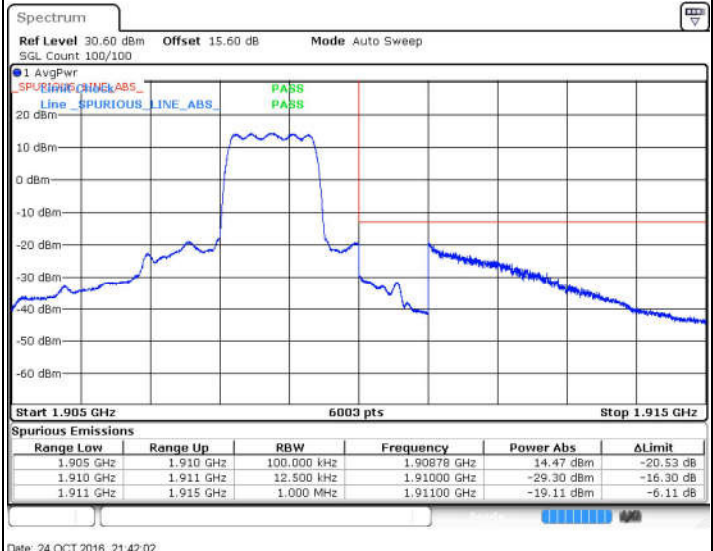


CDMA BC1 (RC3 SO55)

Lowest Band Edge



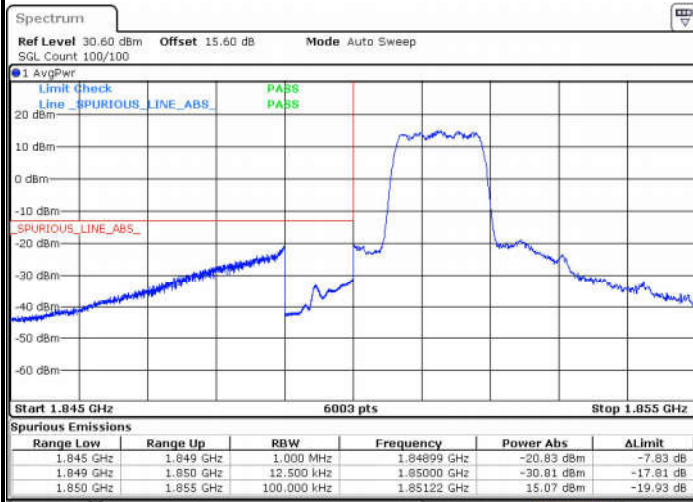
Highest Band Edge





CDMA BC1 (RC3 SO32)

Lowest Band Edge



Date: 24.OCT.2016 20:50:04

Highest Band Edge



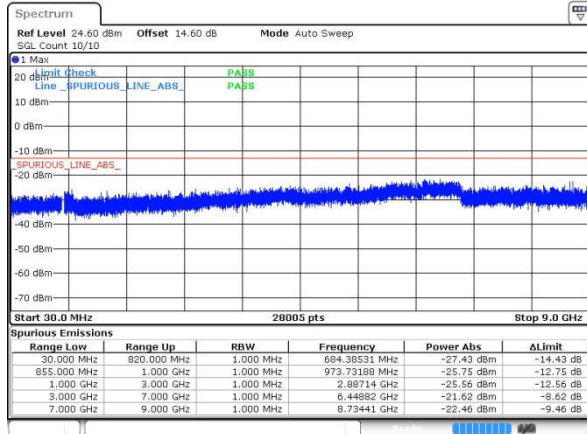
Date: 24.OCT.2016 20:52:45



Conducted Spurious Emission

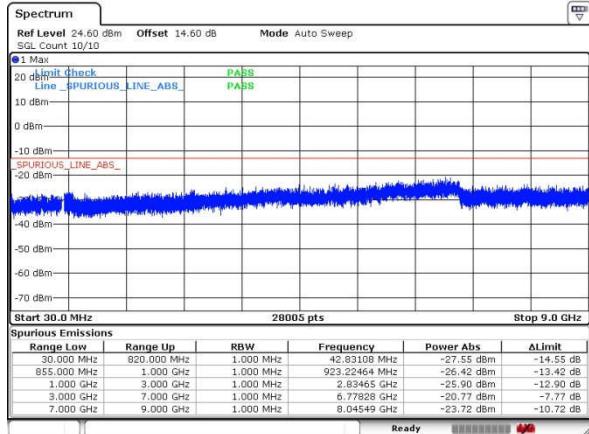
GSM850 (GSM)

Lowest Channel

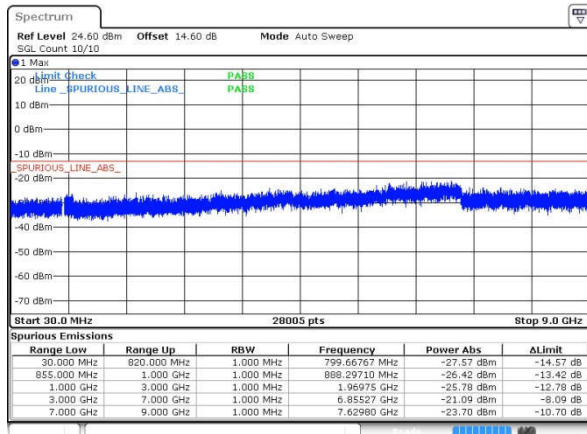


GSM850 (EDGE Class 8)

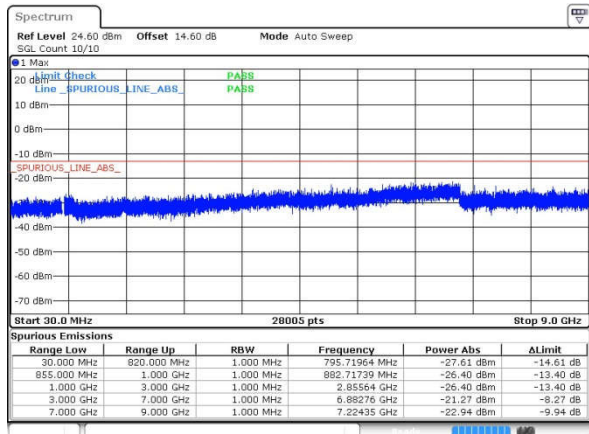
Lowest Channel



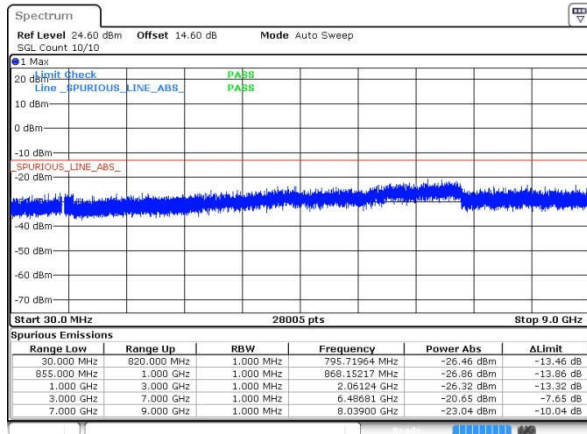
Middle Channel



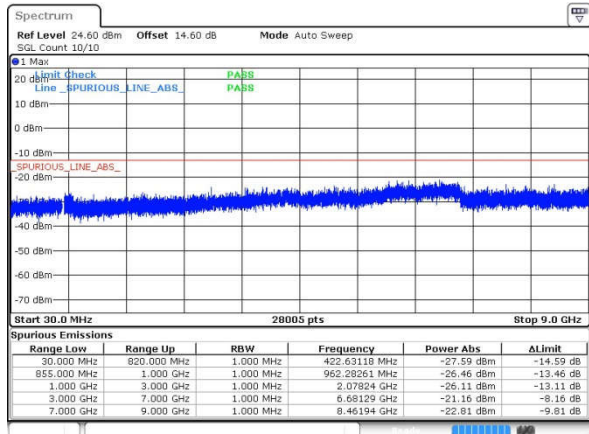
Middle Channel



Highest Channel



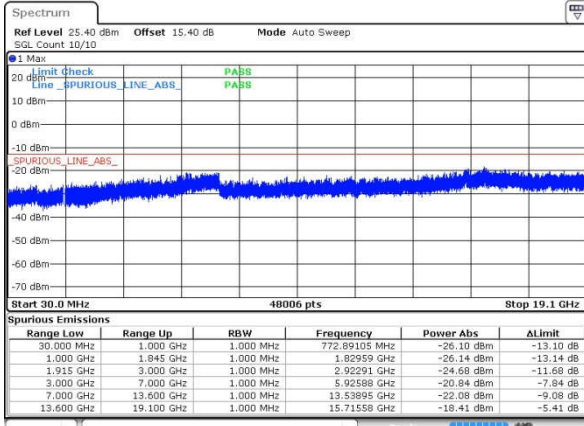
Highest Channel





GSM1900 (GSM)

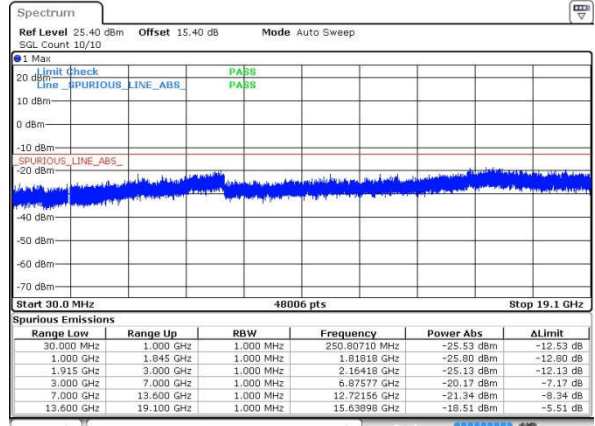
Lowest Channel



Date: 19.OCT.2016 20:56:21

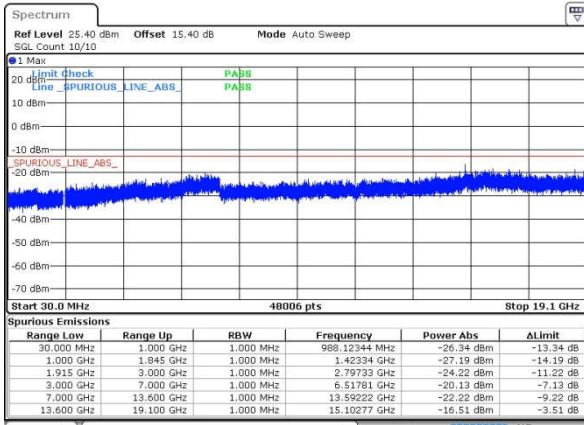
GSM1900 (EDGE Class 8)

Lowest Channel



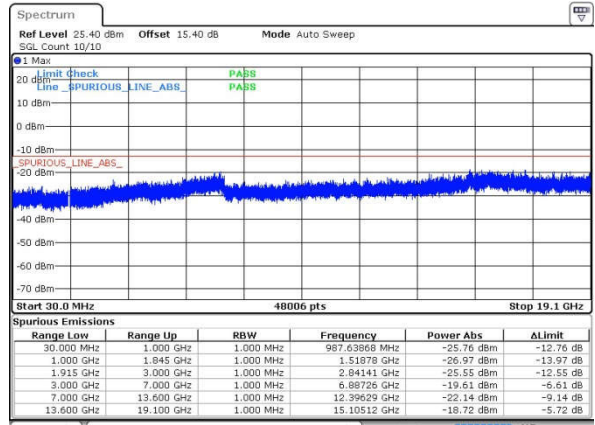
Date: 19.OCT.2016 21:36:40

Middle Channel



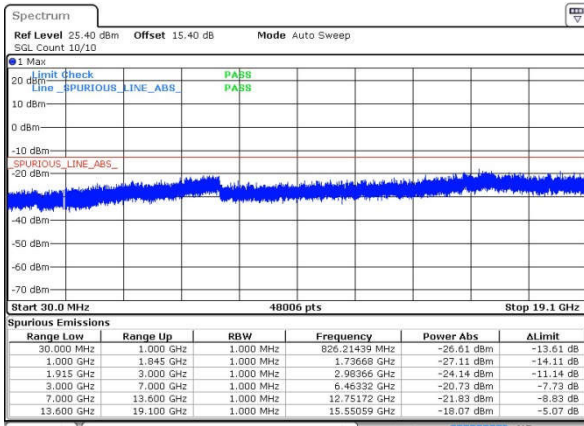
Date: 19.OCT.2016 20:57:38

Middle Channel



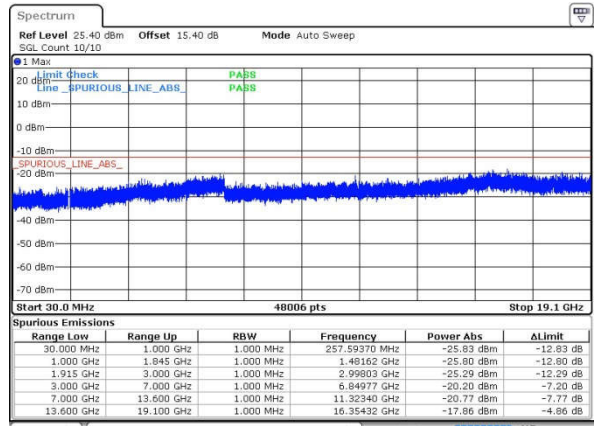
Date: 19.OCT.2016 21:38:18

Highest Channel



Date: 19.OCT.2016 20:58:54

Highest Channel

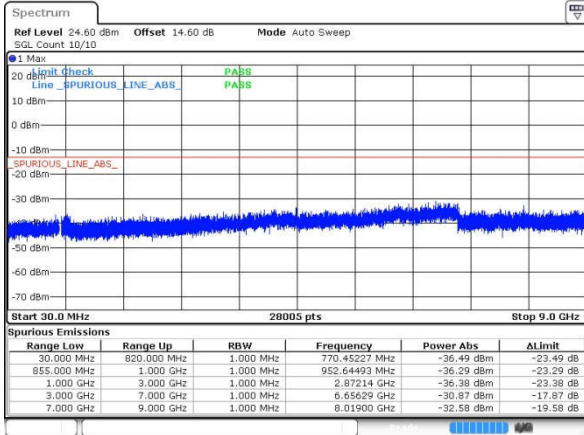


Date: 19.OCT.2016 21:39:42



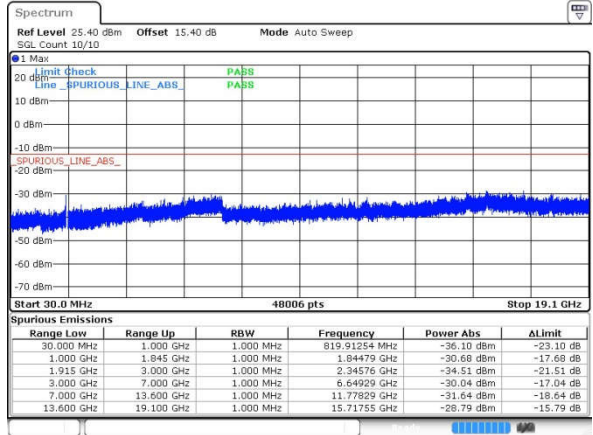
WCDMA Band V (RMC 12.2Kbps)

Lowest Channel

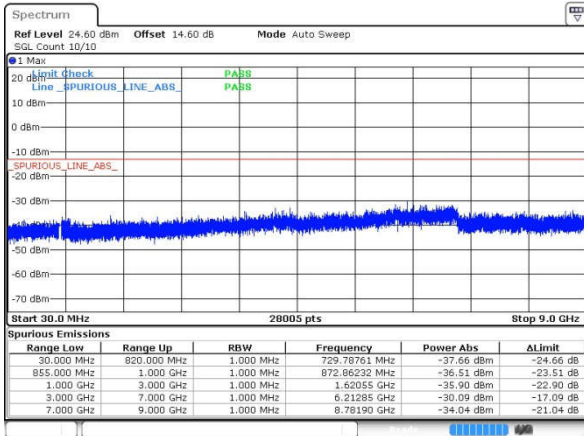


WCDMA Band II (RMC 12.2Kbps)

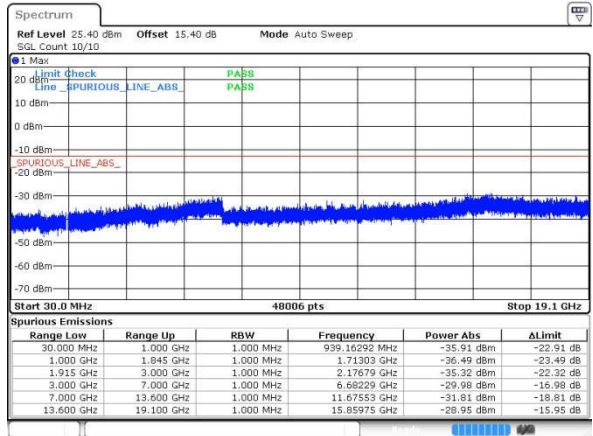
Lowest Channel



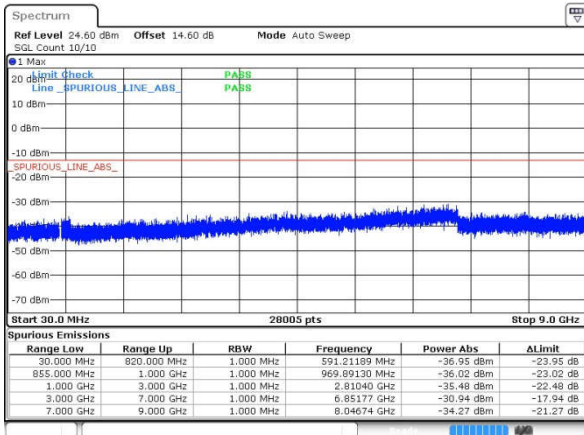
Middle Channel



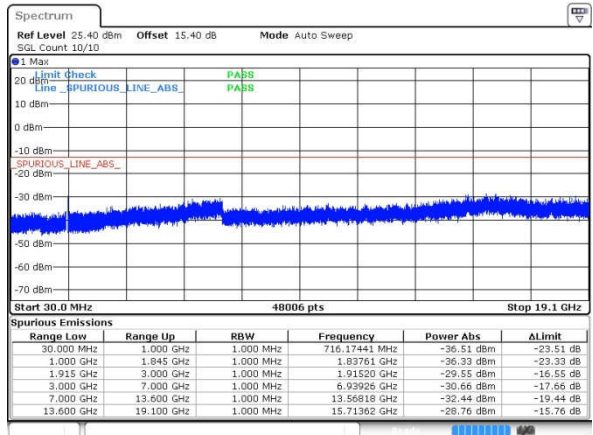
Middle Channel



Highest Channel



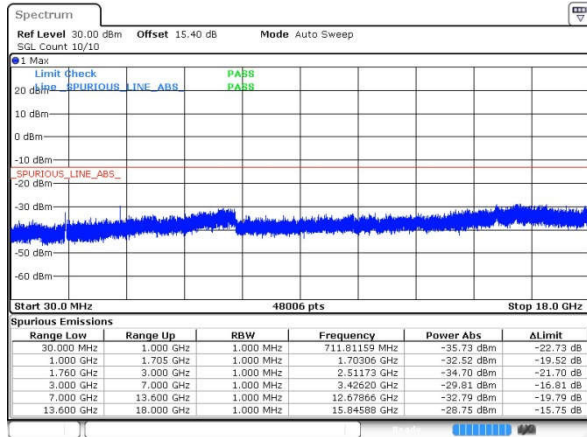
Highest Channel





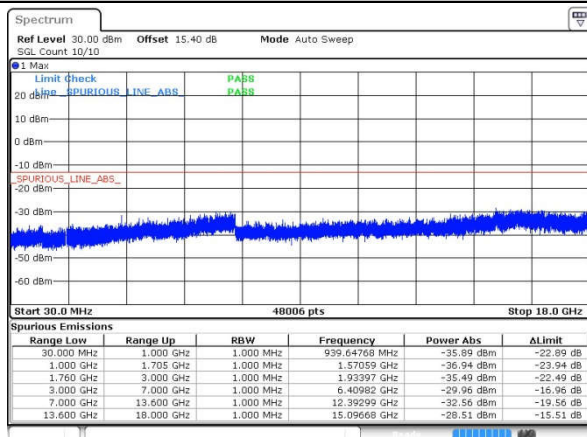
WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



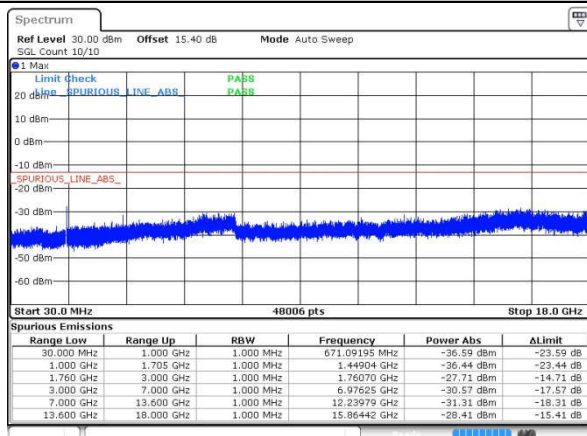
Date: 19.OCT.2016 22:46:12

Middle Channel



Date: 19.OCT.2016 22:47:29

Highest Channel

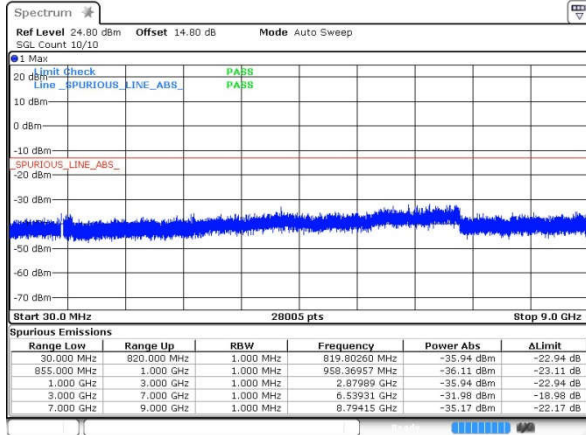


Date: 19.OCT.2016 22:48:44



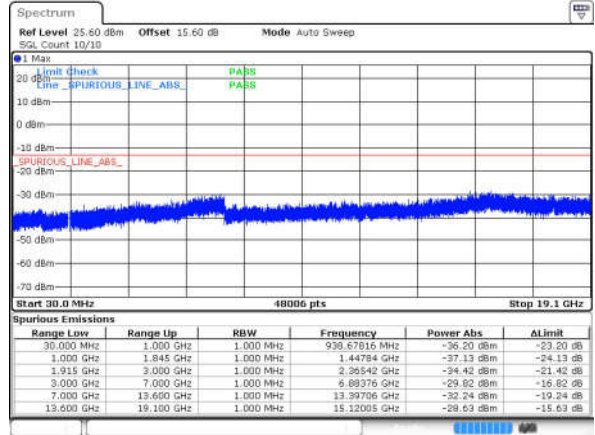
CDMA BC0 (RC1 SO55)

Lowest Channel

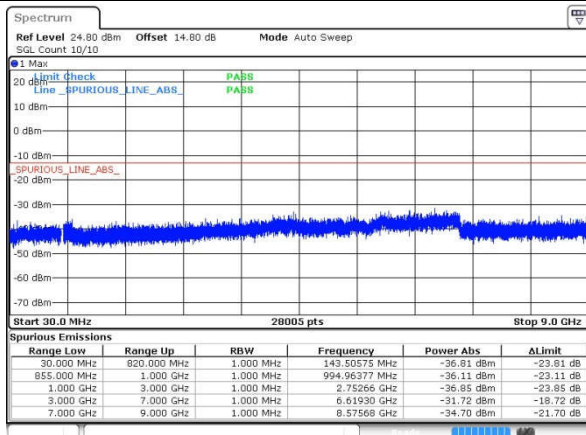


CDMA BC1 (RC1 SO55)

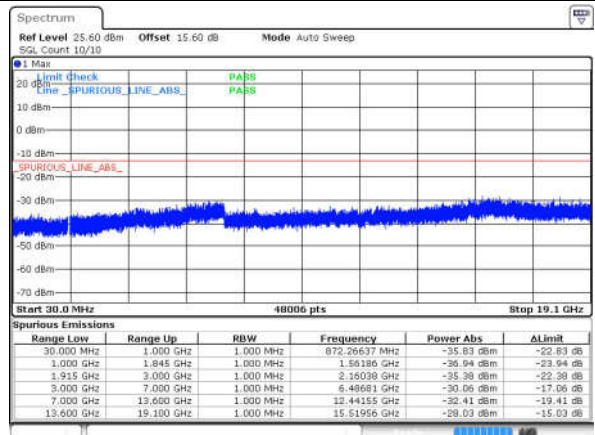
Lowest Channel



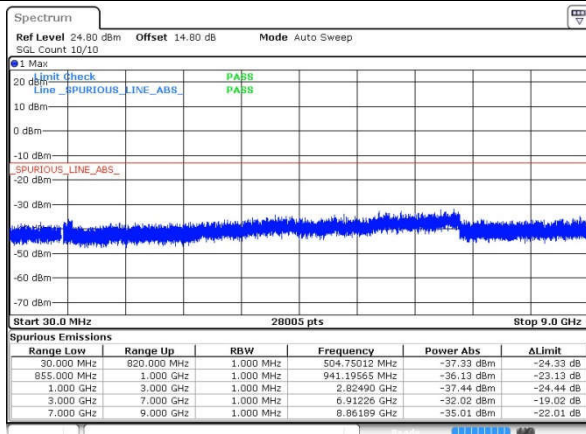
Middle Channel



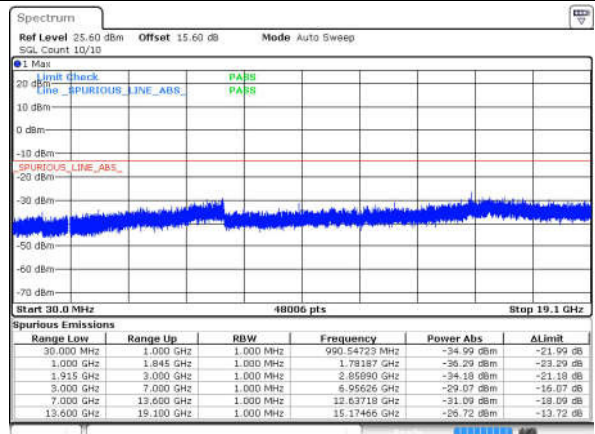
Middle Channel



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	0.0072	0.0084	PASS
40	Normal Voltage	0.0108	0.0048	
30	Normal Voltage	0.0132	0.0024	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0155	0.0167	
0	Normal Voltage	0.0036	0.0120	
-10	Normal Voltage	0.0120	0.0179	
-20	Normal Voltage	0.0024	0.0167	
-30	Normal Voltage	0.0012	0.0227	
20	Maximum Voltage	0.0096	0.0096	
20	Normal Voltage	0.0084	0.0143	
20	Battery End Point	0.0155	0.0036	

Note: Normal Voltage = 3.82 V. ; Battery End Point (BEP) = 3.65 V. ; Maximum Voltage =4.4 V



Test Conditions	Middle Channel	GSM1900 (GSM)	GSM1900 (EDGE class 8)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		Result
50	Normal Voltage	0.0133	0.0128	PASS
40	Normal Voltage	0.0090	0.0122	
30	Normal Voltage	0.0133	0.0016	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0005	0.0011	
0	Normal Voltage	0.0021	0.0016	
-10	Normal Voltage	0.0064	0.0000	
-20	Normal Voltage	0.0117	0.0016	
-30	Normal Voltage	0.0016	0.0027	
20	Maximum Voltage	0.0122	0.0144	
20	Normal Voltage	0.0016	0.0122	
20	Battery End Point	0.0032	0.0133	

Note:

1. Normal Voltage = 3.82 V. ; Battery End Point (BEP) = 3.65 V. ; Maximum Voltage =4.4 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 12.2KbpsRMC 12.2Kbps)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0454	PASS
40	Normal Voltage	0.0430	
30	Normal Voltage	0.0383	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0036	
0	Normal Voltage	0.0084	
-10	Normal Voltage	0.0072	
-20	Normal Voltage	0.0263	
-30	Normal Voltage	0.0215	
20	Maximum Voltage	0.0048	
20	Normal Voltage	0.0275	
20	Battery End Point	0.0036	

Note: Normal Voltage = 3.82 V. ; Battery End Point (BEP) = 3.65 V. ; Maximum Voltage =4.4 V



Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0074	PASS
40	Normal Voltage	0.0016	
30	Normal Voltage	0.0064	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0048	
0	Normal Voltage	0.0037	
-10	Normal Voltage	0.0085	
-20	Normal Voltage	0.0005	
-30	Normal Voltage	0.0074	
20	Maximum Voltage	0.0037	
20	Normal Voltage	0.0069	
20	Battery End Point	0.0085	

Note:

1. Normal Voltage = 3.82V. ; Battery End Point (BEP) = 3.65 V. ; Maximum Voltage =4.4 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	0.0156	PASS
40	Normal Voltage	0.0173	
30	Normal Voltage	0.0190	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0006	
0	Normal Voltage	0.0023	
-10	Normal Voltage	0.0035	
-20	Normal Voltage	0.0023	
-30	Normal Voltage	0.0017	
20	Maximum Voltage	0.0012	
20	Normal Voltage	0.0150	
20	Battery End Point	0.0017	

Note:

1. Normal Voltage = 3.82V. ; Battery End Point (BEP) = 3.65 V. ; Maximum Voltage =4.4V
2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



Test Conditions	Middle Channel	CDMA BC0 (1xRTT)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0287	PASS
40	Normal Voltage	0.0108	
30	Normal Voltage	0.0347	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0251	
0	Normal Voltage	0.0383	
-10	Normal Voltage	0.0239	
-20	Normal Voltage	0.0275	
-30	Normal Voltage	0.0072	
20	Maximum Voltage	0.0012	
20	Normal Voltage	0.0335	
20	Battery End Point	0.0263	

Note: Normal Voltage = 3.82V. ; Battery End Point (BEP) = 3.65V. ; Maximum Voltage =4.4 V



Test Conditions	Middle Channel	CDMA BC1 (1xRTT)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0154	PASS
40	Normal Voltage	0.0005	
30	Normal Voltage	0.0021	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0037	
0	Normal Voltage	0.0048	
-10	Normal Voltage	0.0128	
-20	Normal Voltage	0.0027	
-30	Normal Voltage	0.0016	
20	Maximum Voltage	0.0133	
20	Normal Voltage	0.0053	
20	Battery End Point	0.0016	

Note:

1. Normal Voltage = 3.82V. ; Battery End Point (BEP) = 3.65V. ; Maximum Voltage =4.4 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

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	-66.95	-13	-53.95	-65.15	-68.77	1.23	5.20	H
	2509	-67.10	-13	-54.10	-71.95	-69.33	1.52	5.90	H
	3345	-66.35	-13	-53.35	-73.91	-69.13	1.77	6.70	H
	1672	-69.07	-13	-56.07	-67.02	-70.89	1.23	5.20	V
	2509	-63.99	-13	-50.99	-72.29	-66.22	1.52	5.90	V
	3345	-63.68	-13	-50.68	-74.78	-66.46	1.77	6.70	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	-68.15	-13	-55.15	-66.35	-69.97	1.23	5.20	H
	2509	-67.60	-13	-54.60	-72.45	-69.83	1.52	5.90	H
	3345	-67.06	-13	-54.06	-74.62	-69.84	1.77	6.70	H
	1672	-69.92	-13	-56.92	-67.87	-71.74	1.23	5.20	V
	2509	-64.14	-13	-51.14	-72.44	-66.37	1.52	5.90	V
	3345	-63.63	-13	-50.63	-74.73	-66.41	1.77	6.70	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	-64.43	-13	-51.43	-73.44	-69.29	1.93	6.80	H
	5640	-55.87	-13	-42.87	-66.43	-63.17	2.40	9.70	H
	7520	-57.04	-13	-44.04	-72.08	-66.09	2.76	11.81	H
	3762	-64.75	-13	-51.75	-74.06	-69.62	1.93	6.80	V
	5640	-61.17	-13	-48.17	-69.12	-68.47	2.40	9.70	V
	7520	-59.28	-13	-46.28	-71.77	-68.33	2.76	11.81	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	-65.35	-13	-52.35	-74.36	-70.21	1.93	6.80	H
	5640	-59.28	-13	-46.28	-69.84	-66.58	2.40	9.70	H
	7520	-57.40	-13	-44.40	-72.44	-66.45	2.76	11.81	H
	3762	-64.00	-13	-51.00	-73.31	-68.87	1.93	6.80	V
	5640	-61.69	-13	-48.69	-69.64	-68.99	2.40	9.70	V
	7520	-59.01	-13	-46.01	-71.5	-68.06	2.76	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)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1672	-68.49	-13	-55.49	-66.69	-70.31	1.23	5.20	H
	2509	-67.87	-13	-54.87	-72.72	-70.10	1.52	5.90	H
	3345	-67.25	-13	-54.25	-74.81	-70.03	1.77	6.70	H
	1672	-68.99	-13	-55.99	-66.94	-70.81	1.23	5.20	V
	2509	-64.07	-13	-51.07	-72.37	-66.30	1.52	5.90	V
	3345	-63.71	-13	-50.71	-74.81	-66.49	1.77	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)	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	-64.40	-13	-51.40	-73.41	-69.26	1.93	6.80	H
	5640	-59.46	-13	-46.46	-70.02	-66.76	2.40	9.70	H
	7520	-55.92	-13	-42.92	-70.96	-64.97	2.76	11.81	H
	3762	-64.68	-13	-51.68	-73.99	-69.55	1.93	6.80	V
	5640	-62.05	-13	-49.05	-70	-69.35	2.40	9.70	V
	7520	-59.56	-13	-46.56	-72.05	-68.61	2.76	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)	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	3465	-47.94	-13	-34.94	-61.39	-52.82	1.81	6.69	H
	5197	-60.22	-13	-47.22	-70.92	-67.17	2.19	9.14	H
	6930	-57.37	-13	-44.37	-69.71	-65.45	2.6	10.68	H
	3465	-52.05	-13	-39.05	-63.8	-56.93	1.81	6.69	V
	5197	-61.62	-13	-48.62	-71.12	-68.57	2.19	9.14	V
	6930	-57.65	-13	-44.65	-70.16	-65.73	2.6	10.68	V

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



CDMA BC0 (1xRTT)									
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	-70.74	-13	-57.74	-69.37	-72.60	1.19	5.20	H
	2512	-65.39	-13	-52.39	-68.38	-67.61	1.53	5.90	H
	3344	-69.08	-13	-56.08	-73.03	-71.87	1.76	6.70	H
	1672	-68.01	-13	-55.01	-65.97	-69.87	1.19	5.20	V
	2512	-65.36	-13	-52.36	-67.34	-67.58	1.53	5.90	V
	3344	-68.95	-13	-55.95	-72.27	-71.74	1.76	6.70	V

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

CDMA BC1 (1xRTT)									
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	-70.01	-13	-57.01	-73.52	-75.00	1.88	6.87	H
	5640	-66.86	-13	-53.86	-75.05	-74.16	2.38	9.68	H
	7518	-63.73	-13	-50.73	-75.76	-72.80	2.74	11.81	H
	3762	-69.43	-13	-56.43	-73.22	-74.42	1.88	6.87	V
	5640	-66.22	-13	-53.22	-74.79	-73.52	2.38	9.68	V
	7518	-64.99	-13	-51.99	-75.7	-74.06	2.74	11.81	V

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



Appendix C. Test Setup Photographs