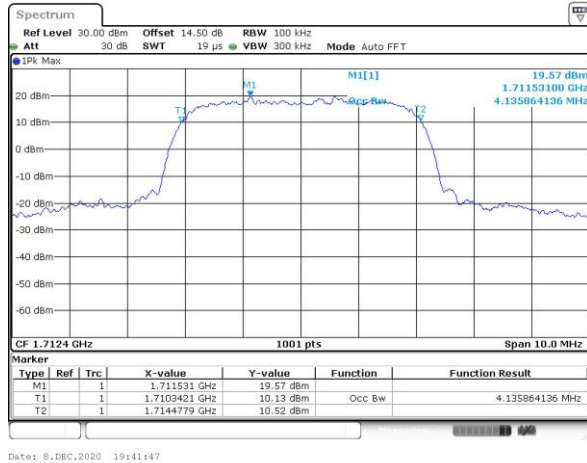


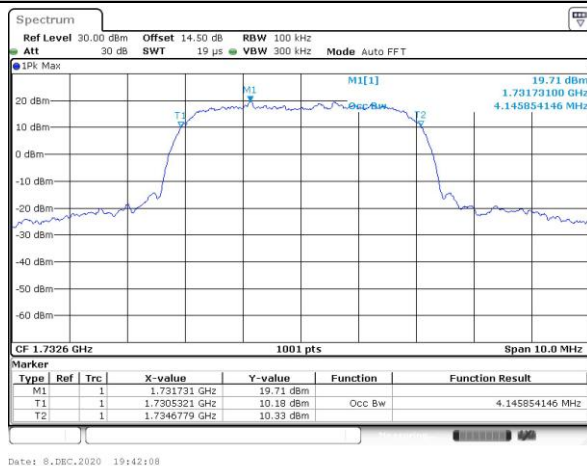


WCDMA Band IV (RMC 12.2Kbps)

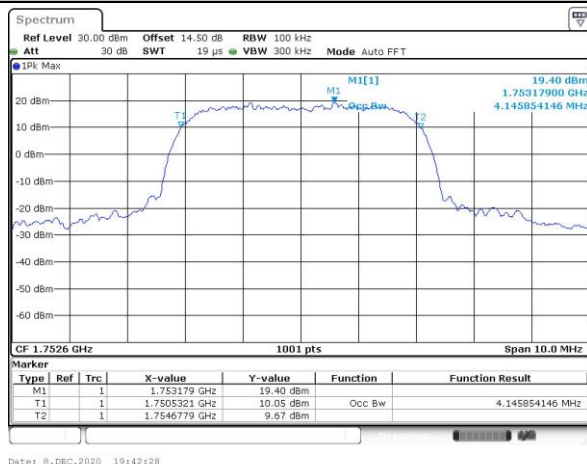
Lowest Channel



Middle Channel



Highest Channel

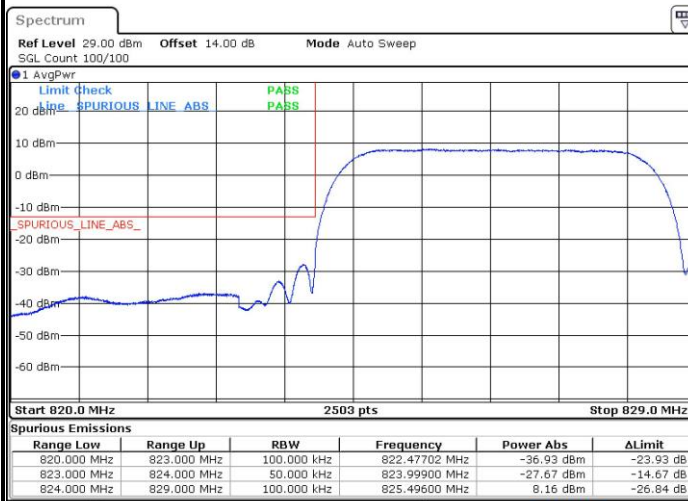




Conducted Band Edge

WCDMA Band V (RMC 12.2Kbps)

Lowest Band Edge

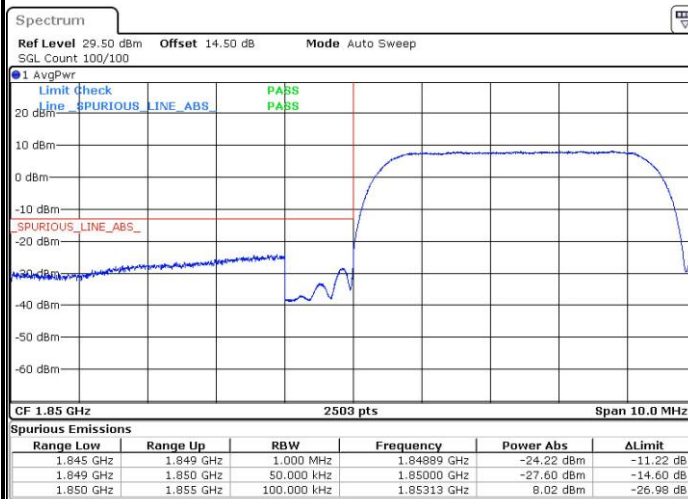


Highest Band Edge

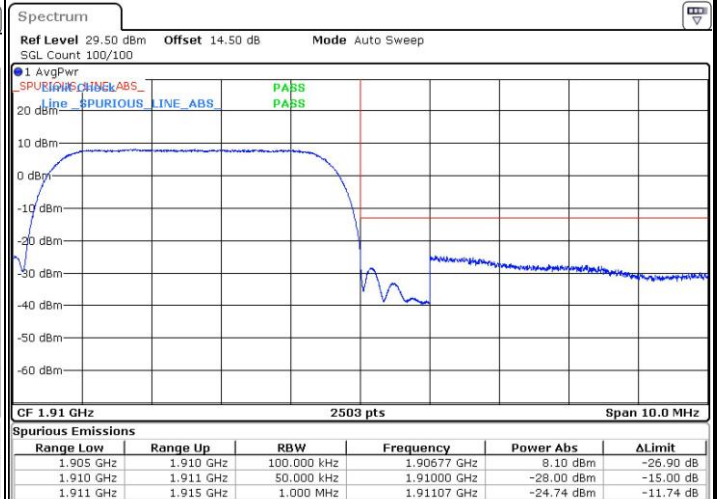


WCDMA Band II (RMC 12.2Kbps)

Lowest Band Edge



Highest Band Edge

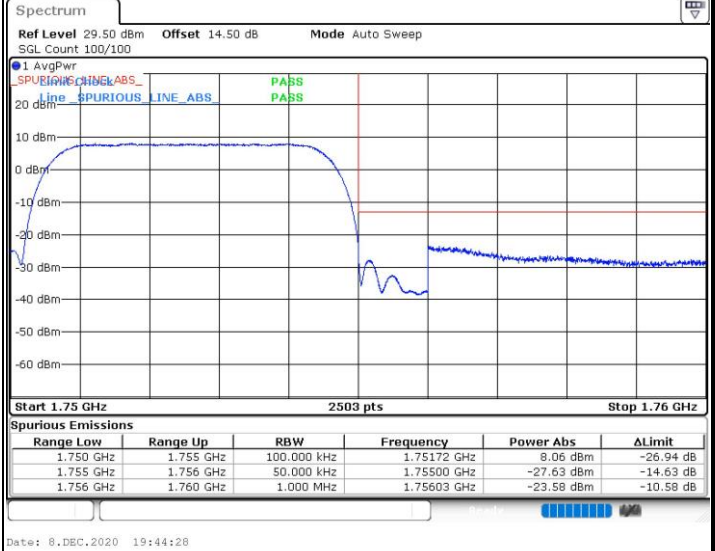
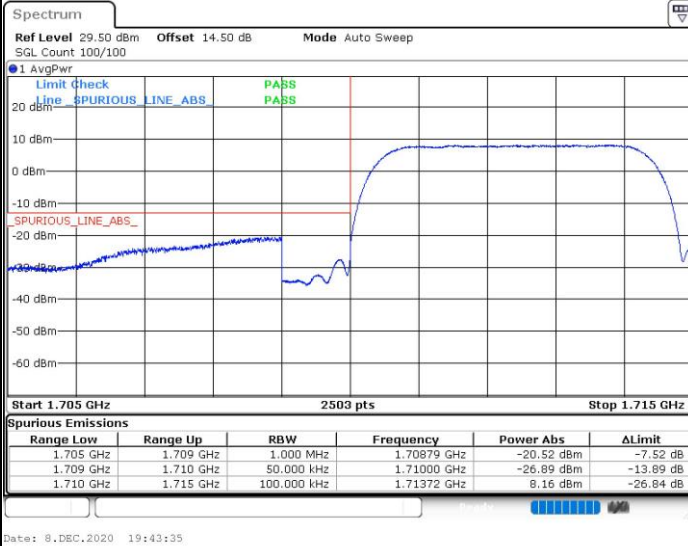




WCDMA Band IV (RMC 12.2Kbps)

Lowest Band Edge

Highest Band Edge

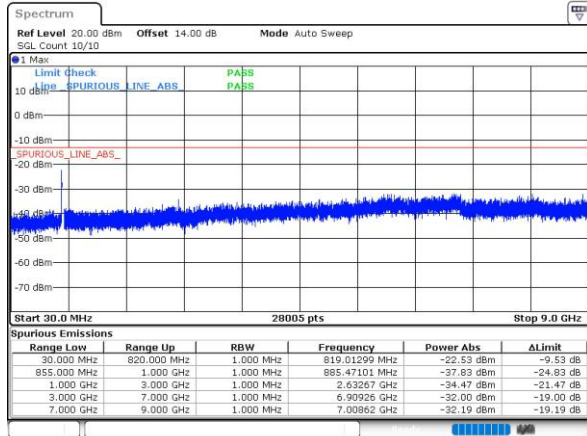




Conducted Spurious Emission

WCDMA Band V (RMC 12.2Kbps)

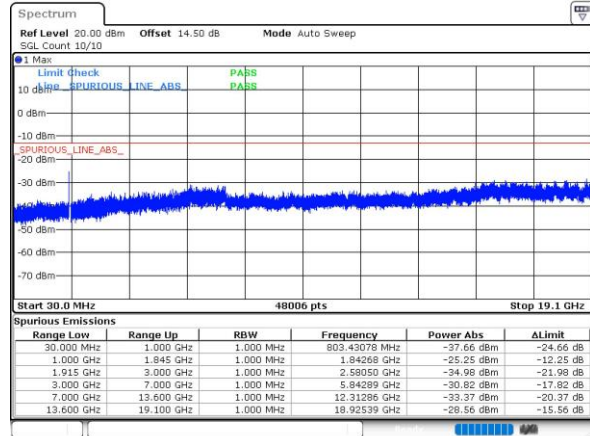
Lowest Channel



Date: 8, DEC, 2020 19:58:08

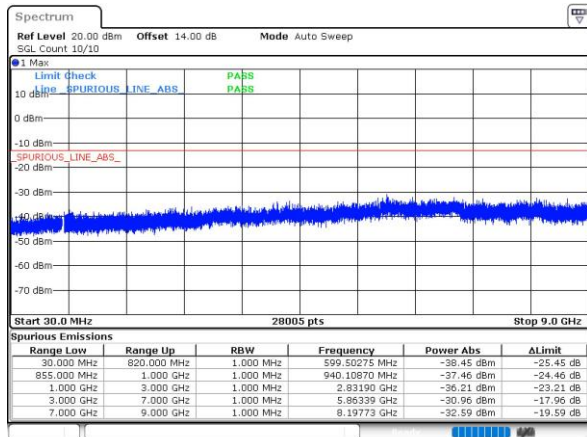
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



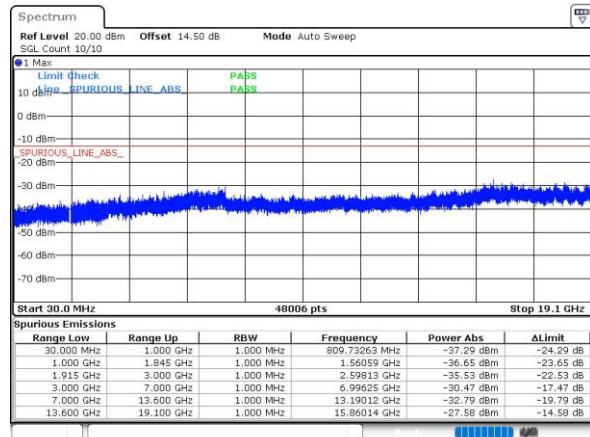
Date: 8, DEC, 2020 19:36:59

Middle Channel



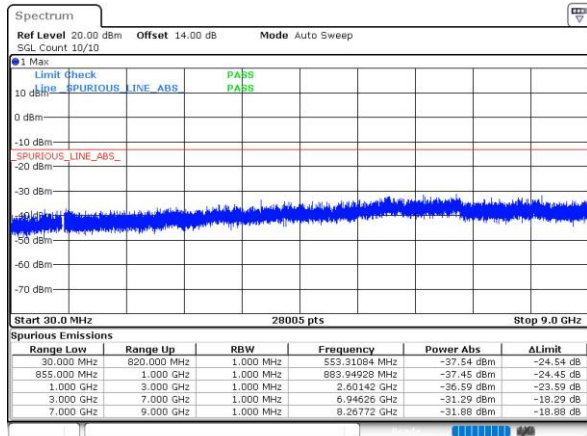
Date: 8, DEC, 2020 19:58:29

Middle Channel



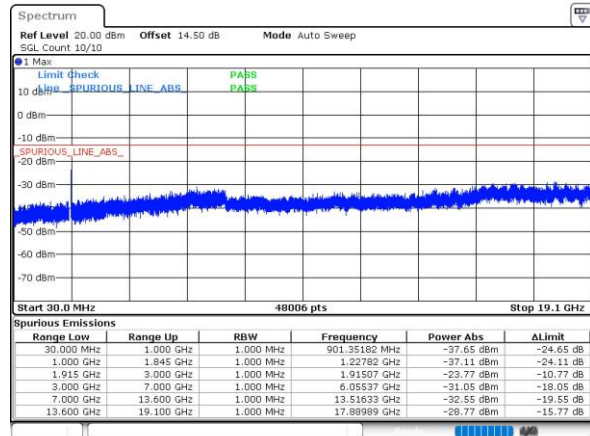
Date: 8, DEC, 2020 19:37:23

Highest Channel



Date: 8, DEC, 2020 19:58:57

Highest Channel

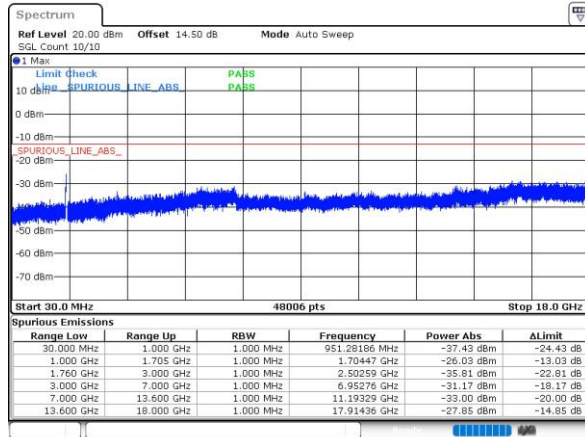


Date: 8, DEC, 2020 19:37:46

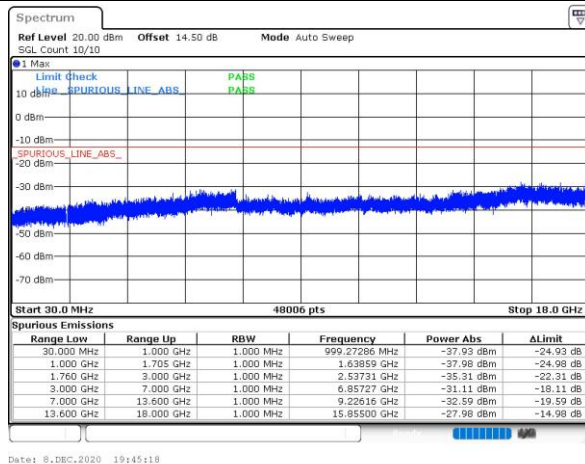


WCDMA Band IV (RMC 12.2Kbps)

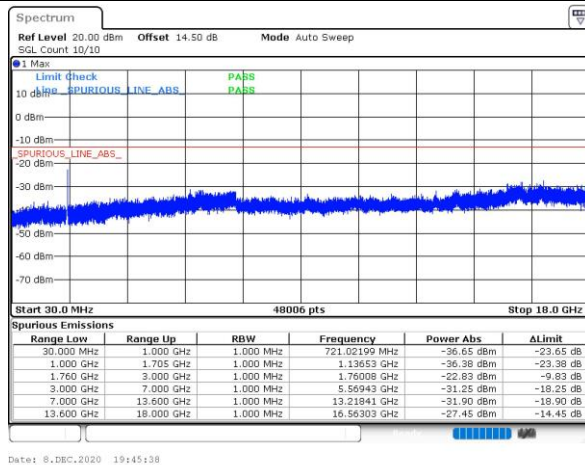
Lowest Channel



Middle Channel



Highest Channel



**Frequency Stability**

Test Conditions	Middle Channel	WCDMA Band V (RMC 12.2Kbps)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0005	PASS
40	Normal Voltage	0.0000	
30	Normal Voltage	0.0001	
20(Ref.)	Normal Voltage	0.0003	
10	Normal Voltage	0.0005	
0	Normal Voltage	0.0010	
-10	Normal Voltage	0.0007	
-20	Normal Voltage	0.0002	
-30	Normal Voltage	0.0011	
20	Maximum Voltage	0.0002	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0007	

Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0014	PASS
40	Normal Voltage	0.0018	
30	Normal Voltage	0.0025	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0009	
0	Normal Voltage	0.0012	
-10	Normal Voltage	0.0037	
-20	Normal Voltage	0.0025	
-30	Normal Voltage	0.0010	
20	Maximum Voltage	0.0009	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0017	



Test Conditions	Middle Channel	WCDMA Band IV (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0034	PASS
40	Normal Voltage	0.0012	
30	Normal Voltage	0.0002	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0003	
0	Normal Voltage	0.0021	
-10	Normal Voltage	0.0047	
-20	Normal Voltage	0.0005	
-30	Normal Voltage	0.0019	
20	Maximum Voltage	0.0003	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0005	

Note:

1. Normal Voltage = 7.74V ; Battery End Point (BEP) =7.2V ; Maximum Voltage = 8.9V
2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



A3. CDMA

Peak-to-Average Ratio

Mode	CDMA BC0(dB)	CDMA BC1(dB)	Limit: 13dB
Mod.	1xRTT	1xRTT	Result
Lowest CH	3.74	3.77	PASS
Middle CH	3.74	3.80	
Highest CH	3.77	3.86	



CDMA BC0 (1xRTT)

Lowest Channel

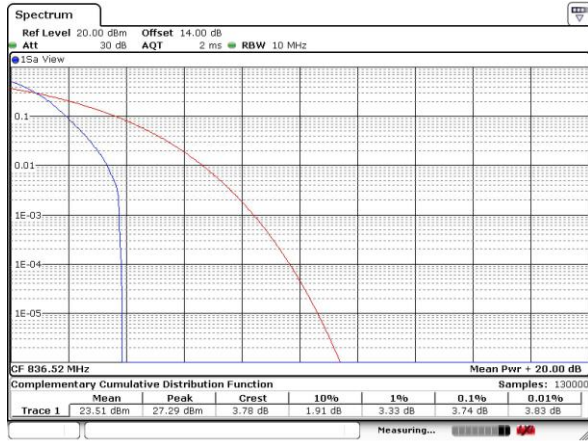


CDMA BC1 (1xRTT)

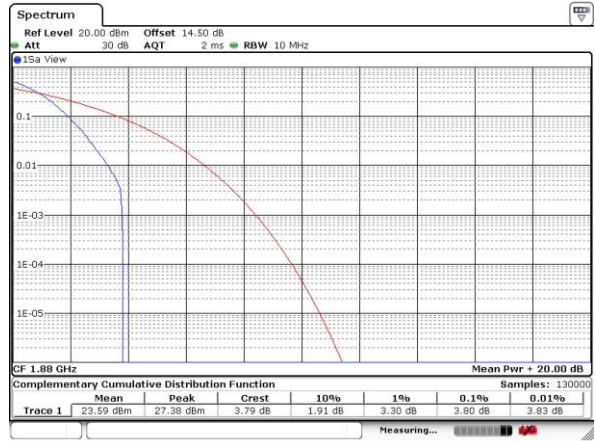
Lowest Channel



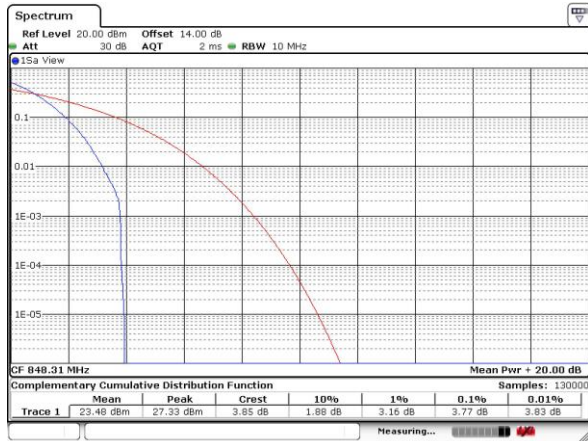
Middle Channel



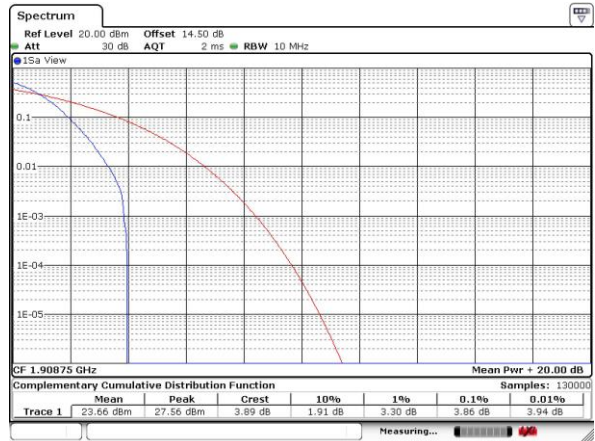
Middle Channel



Highest Channel



Highest Channel





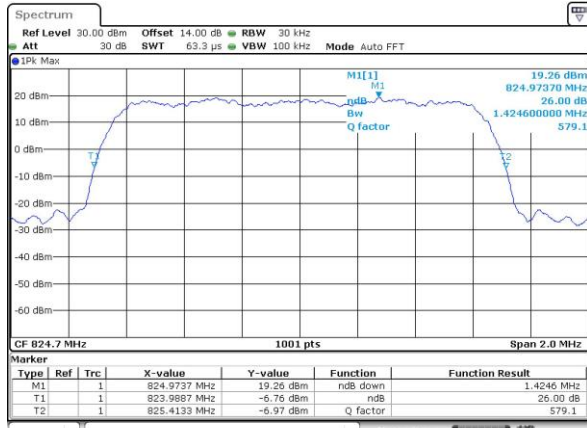
26dB Bandwidth

Mode	CDMA BC0(MHz)	CDMA BC1(MHz)
Mod.	1xRTT	1xRTT
Lowest CH	1.42	1.42
Middle CH	1.42	1.43
Highest CH	1.42	1.42



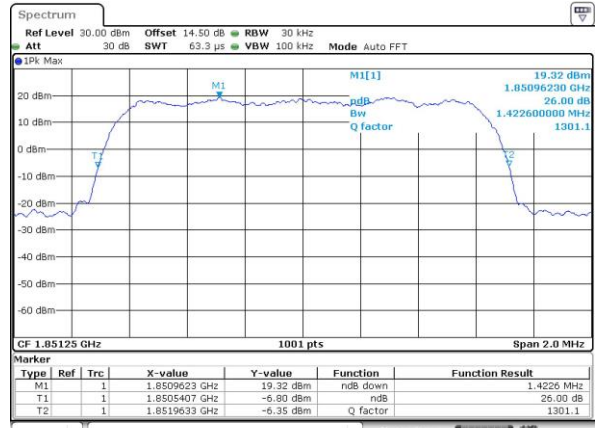
CDMA BC0 (1xRTT)

Lowest Channel

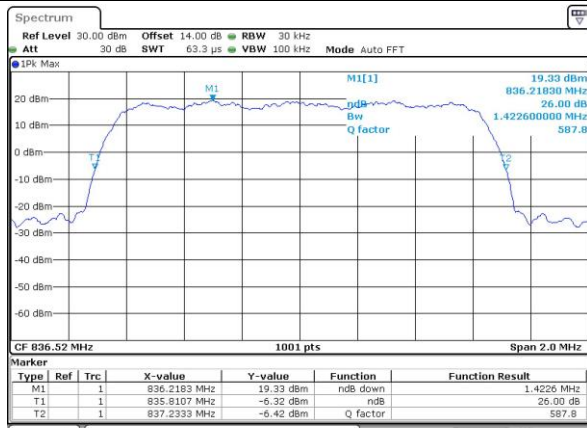


CDMA BC1 (1xRTT)

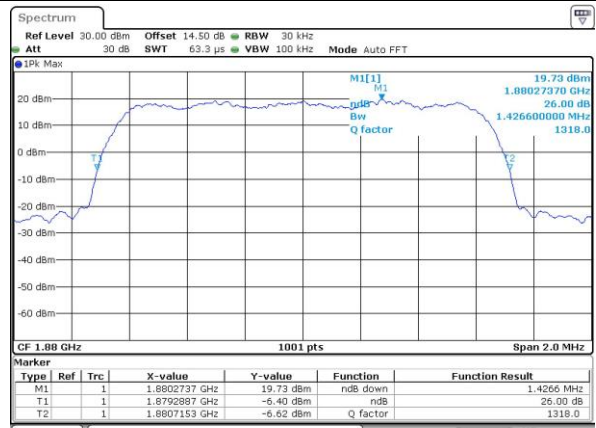
Lowest Channel



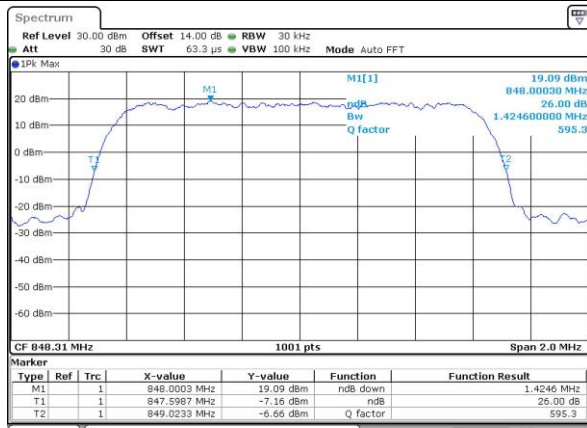
Middle Channel



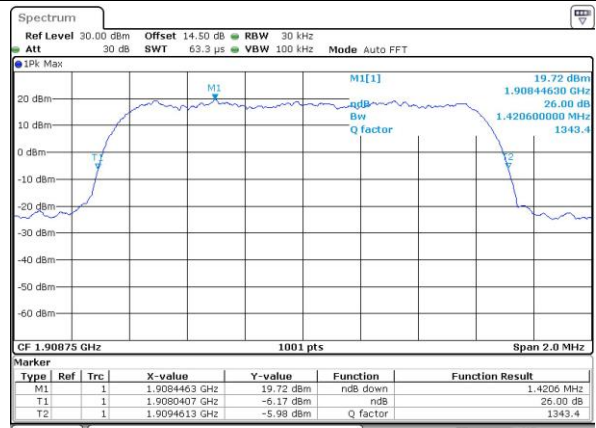
Middle Channel



Highest Channel



Highest Channel





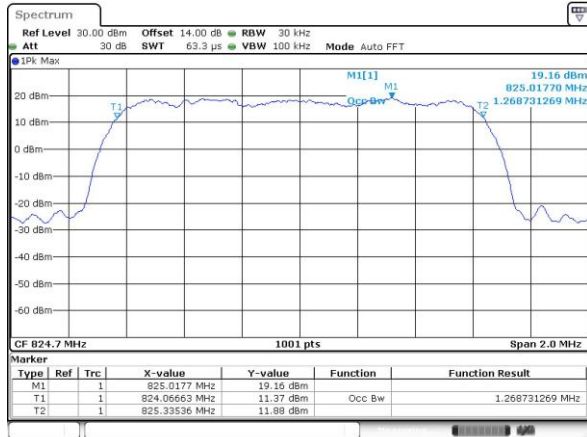
Occupied Bandwidth

Mode	CDMA BC0(MHz)	CDMA BC1(MHz)
Mod.	1xRTT	1xRTT
Lowest CH	1.27	1.27
Middle CH	1.27	1.27
Highest CH	1.27	1.27



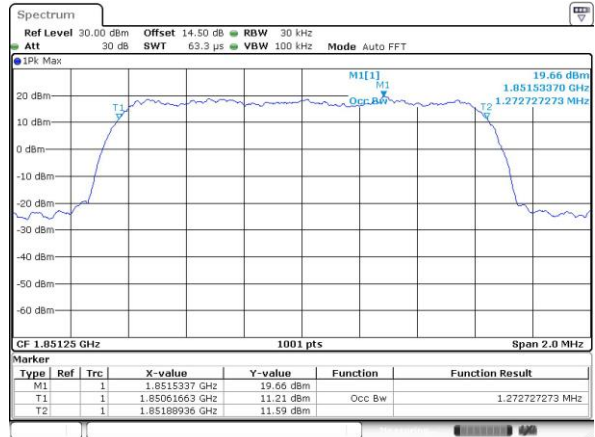
CDMA BC0 (1xRTT)

Lowest Channel

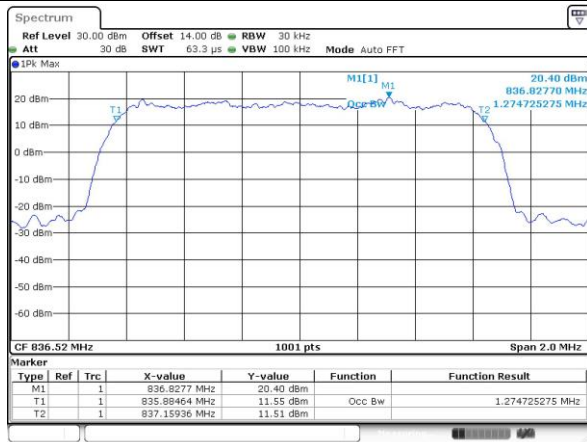


CDMA BC1 (1xRTT)

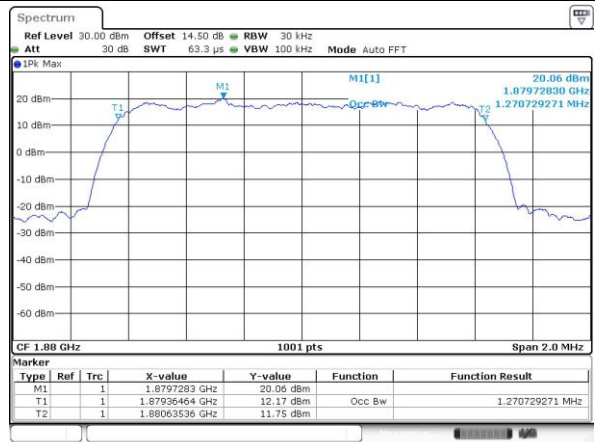
Lowest Channel



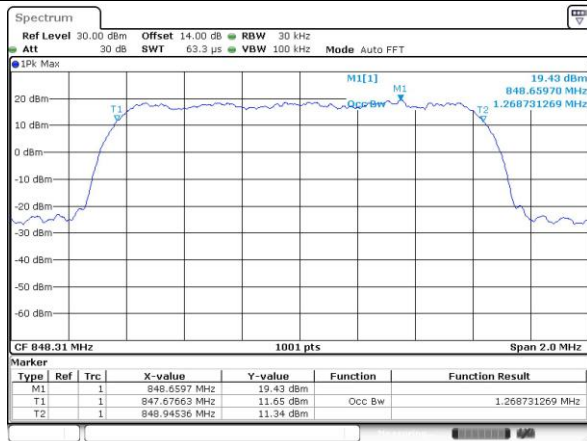
Middle Channel



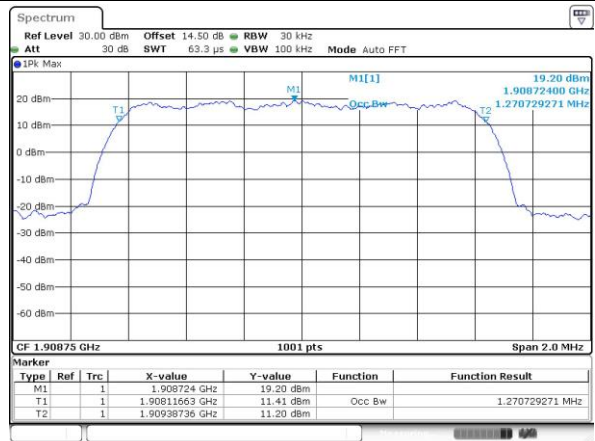
Middle Channel



Highest Channel

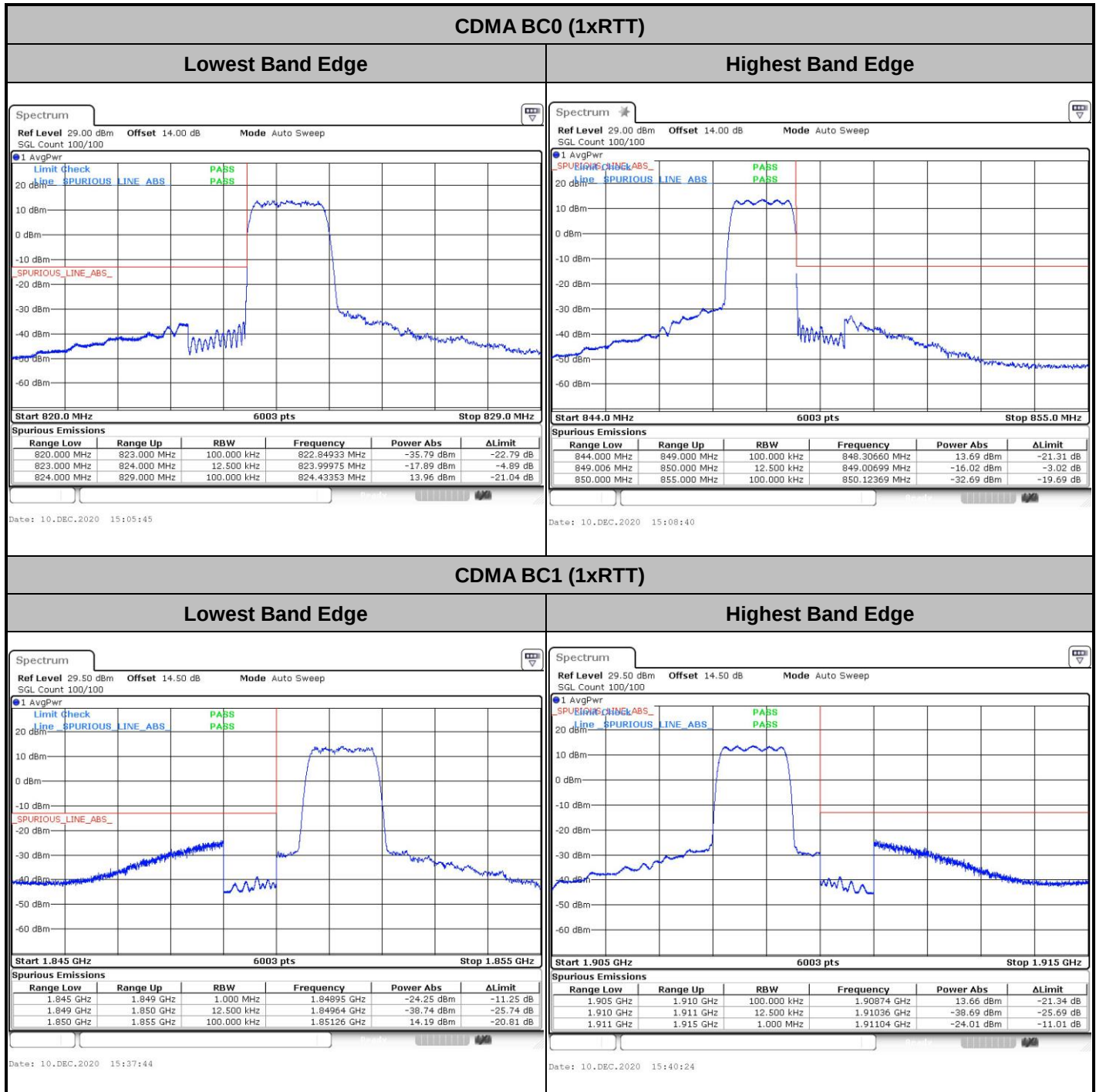


Highest Channel



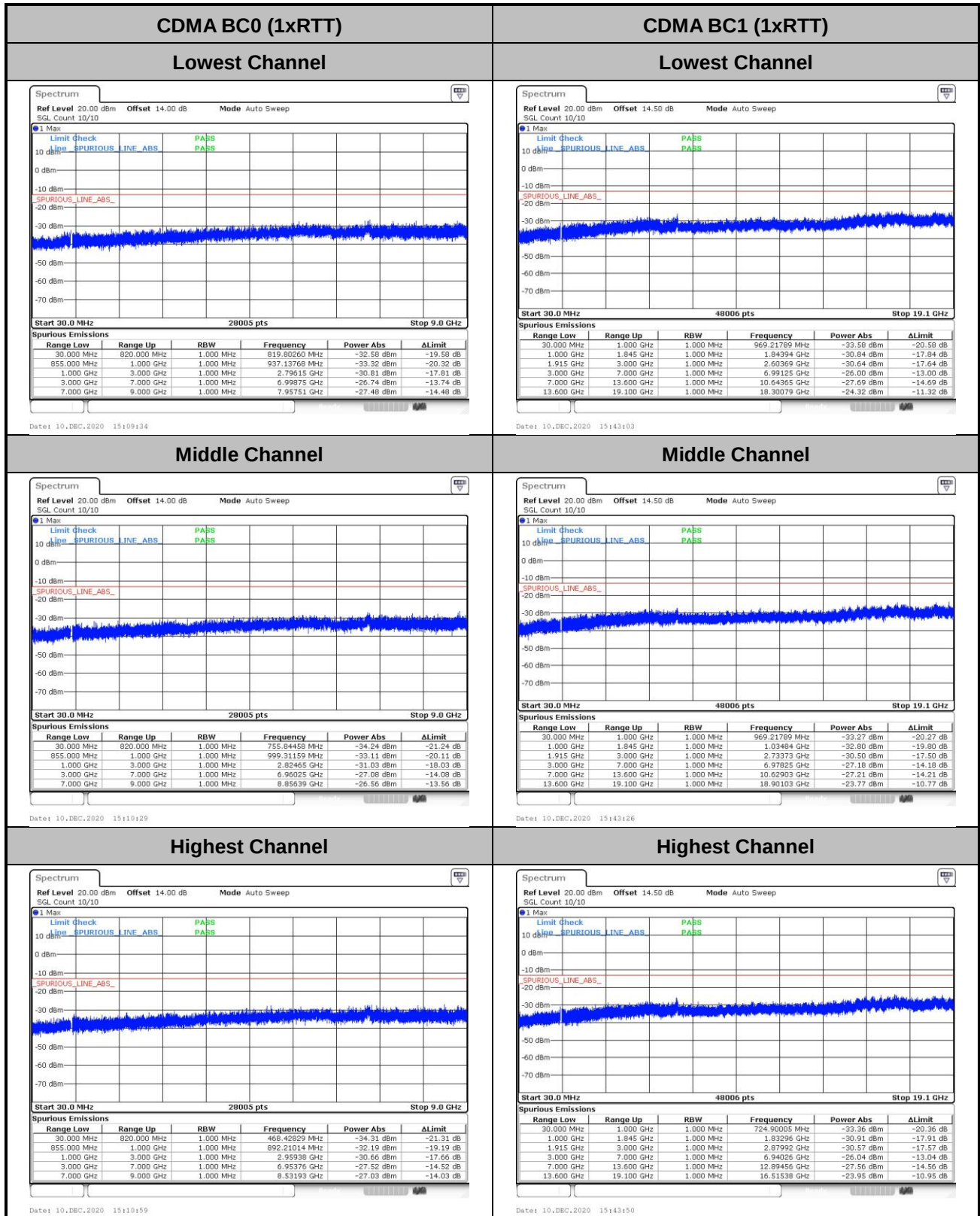


Conducted Band Edge





Conducted Spurious Emission



**Frequency Stability**

Test Conditions	Middle Channel	CDMA BC0 (1xRTT)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0041	PASS
40	Normal Voltage	0.0032	
30	Normal Voltage	0.0193	
20(Ref.)	Normal Voltage	0.0031	
10	Normal Voltage	0.0201	
0	Normal Voltage	0.0035	
-10	Normal Voltage	0.0162	
-20	Normal Voltage	0.0049	
-30	Normal Voltage	0.0037	
20	Maximum Voltage	0.0051	
20	Normal Voltage	0.0028	
20	Battery End Point	0.0201	

Test Conditions	Middle Channel	CDMA BC1 (1xRTT)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0041	PASS
40	Normal Voltage	0.0023	
30	Normal Voltage	0.0084	
20(Ref.)	Normal Voltage	0.0061	
10	Normal Voltage	0.0089	
0	Normal Voltage	0.0121	
-10	Normal Voltage	0.00125	
-20	Normal Voltage	0.0041	
-30	Normal Voltage	0.0046	
20	Maximum Voltage	0.0034	
20	Normal Voltage	0.0091	
20	Battery End Point	0.0051	

Note:

1. Normal Voltage = 7.74V. ; Battery End Point (BEP) = 7.2 V. ; Maximum Voltage =8.9 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

Top antenna:

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	1673.04	-62.33	-13	-49.33	-72.09	-65.58	4.00	9.40	H
	2509.56	-46.05	-13	-33.05	-60.25	-49.62	4.88	10.60	H
	3346.08	-61.05	-13	-48.05	-77.39	-65.98	5.52	12.60	H
	1673.04	-62.99	-13	-49.99	-72.20	-66.24	4.00	9.40	V
	2509.56	-40.33	-13	-27.33	-54.49	-43.90	4.88	10.60	V
	3346.08	-61.33	-13	-48.33	-77.40	-66.26	5.52	12.60	V

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

GSM850 (EDGE 1 Tx slots)									
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	1672.8	-62.12	-13	-49.12	-71.88	-65.37	4.00	9.40	H
	2509.2	-38.37	-13	-25.37	-52.57	-41.94	4.88	10.60	H
	3345.6	-61.27	-13	-48.27	-77.61	-66.20	5.52	12.60	H
	1672.8	-62.09	-13	-49.09	-71.30	-65.34	4.00	9.40	V
	2509.2	-37.42	-13	-24.42	-51.58	-40.99	4.88	10.60	V
	3345.6	-61.49	-13	-48.49	-77.56	-66.42	5.52	12.60	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	1672.8	-64.32	-13	-51.32	-74.08	-67.57	4.00	9.40	H
	2509.2	-55.02	-13	-42.02	-69.22	-58.59	4.88	10.60	H
	3345.6	-61.20	-13	-48.20	-77.54	-66.13	5.52	12.60	H
	1672.8	-64.81	-13	-51.81	-74.02	-68.06	4.00	9.40	V
	2509.2	-55.34	-13	-42.34	-69.50	-58.91	4.88	10.60	V
	3345.6	-61.31	-13	-48.31	-77.38	-66.24	5.52	12.60	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	1673.04	-64.31	-13	-51.31	-74.07	-67.56	4.00	9.40	H
	2509.56	-57.99	-13	-44.99	-72.19	-61.56	4.88	10.60	H
	3346.08	-61.50	-13	-48.50	-77.84	-66.43	5.52	12.60	H
	1673.04	-64.75	-13	-51.75	-73.96	-68.00	4.00	9.40	V
	2509.56	-54.19	-13	-41.19	-68.35	-57.76	4.88	10.60	V
	3346.08	-61.66	-13	-48.66	-77.73	-66.59	5.52	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)
Middle	3760	-57.93	-13	-44.93	-77.01	-64.68	5.85	12.60	H
	5640	-54.01	-13	-41.01	-78.11	-59.81	7.30	13.10	H
	7520	-52.07	-13	-39.07	-78.81	-55.22	8.35	11.50	H
	3760	-57.62	-13	-44.62	-76.63	-64.37	5.85	12.60	V
	5640	-54.99	-13	-41.99	-78.34	-60.79	7.30	13.10	V
	7520	-52.04	-13	-39.04	-78.76	-55.19	8.35	11.50	V

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

GSM1900 (EDGE 1 Tx slots)									
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	3760	-57.85	-13	-44.85	-76.93	-64.60	5.85	12.60	H
	5640	-54.38	-13	-41.38	-78.48	-60.18	7.30	13.10	H
	7520	-51.84	-13	-38.84	-78.58	-54.99	8.35	11.50	H
	3760	-58.24	-13	-45.24	-77.25	-64.99	5.85	12.60	V
	5640	-54.96	-13	-41.96	-78.31	-60.76	7.30	13.10	V
	7520	-52.29	-13	-39.29	-79.01	-55.44	8.35	11.50	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	3760	-57.94	-13	-44.94	-77.02	-64.69	5.85	12.60	H
	5640	-54.60	-13	-41.60	-78.70	-60.40	7.30	13.10	H
	7520	-52.38	-13	-39.38	-79.12	-55.53	8.35	11.50	H
	3760	-58.33	-13	-45.33	-77.34	-65.08	5.85	12.60	V
	5640	-55.47	-13	-42.47	-78.82	-61.27	7.30	13.10	V
	7520	-52.41	-13	-39.41	-79.13	-55.56	8.35	11.50	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	3760	-58.32	-13	-45.32	-77.40	-65.07	5.85	12.60	H
	5640	-54.70	-13	-41.70	-78.80	-60.50	7.30	13.10	H
	7520	-52.44	-13	-39.44	-79.18	-55.59	8.35	11.50	H
	3760	-58.34	-13	-45.34	-77.35	-65.09	5.85	12.60	V
	5640	-55.03	-13	-42.03	-78.38	-60.83	7.30	13.10	V
	7520	-52.25	-13	-39.25	-78.97	-55.40	8.35	11.50	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	3465.2	-59.57	-13	-46.57	-77.01	-66.42	5.65	12.50	H
	5197.8	-56.97	-13	-43.97	-79.56	-62.64	7.13	12.80	H
	6930.4	-53.23	-13	-40.23	-79.44	-56.63	8.40	11.80	H
	3465.2	-59.50	-13	-46.50	-76.96	-66.35	5.65	12.50	V
	5197.8	-56.55	-13	-43.55	-79.45	-62.22	7.13	12.80	V
	6930.4	-52.88	-13	-39.88	-79.56	-56.28	8.40	11.80	V

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



Bottom antenna:

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	1672.8	-57.25	-13	-44.25	-67.01	-60.50	4.00	9.40	H
	2509.2	-52.95	-13	-39.95	-67.15	-56.52	4.88	10.60	H
	3345.6	-61.16	-13	-48.16	-77.50	-66.09	5.52	12.60	H
	1672.8	-58.37	-13	-45.37	-67.58	-61.62	4.00	9.40	V
	2509.2	-52.60	-13	-39.60	-66.76	-56.17	4.88	10.60	V
	3345.6	-61.47	-13	-48.47	-77.54	-66.40	5.52	12.60	V

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

GSM850 (EDGE 1 Tx slots)									
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	1672.8	-58.29	-13	-45.29	-68.05	-61.54	4.00	9.40	H
	2509.2	-53.06	-13	-40.06	-67.26	-56.63	4.88	10.60	H
	3345.6	-61.32	-13	-48.32	-77.66	-66.25	5.52	12.60	H
	1672.8	-58.76	-13	-45.76	-67.97	-62.01	4.00	9.40	V
	2509.2	-52.07	-13	-39.07	-66.23	-55.64	4.88	10.60	V
	3345.6	-61.28	-13	-48.28	-77.35	-66.21	5.52	12.60	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	1672.8	-64.33	-13	-51.33	-74.09	-67.58	4.00	9.40	H
	2509.2	-61.66	-13	-48.66	-75.86	-65.23	4.88	10.60	H
	3345.6	-61.36	-13	-48.36	-77.70	-66.29	5.52	12.60	H
	1672.8	-64.94	-13	-51.94	-74.15	-68.19	4.00	9.40	V
	2509.2	-61.43	-13	-48.43	-75.59	-65.00	4.88	10.60	V
	3345.6	-61.73	-13	-48.73	-77.80	-66.66	5.52	12.60	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	1673.04	-64.24	-13	-51.24	-74.00	-67.49	4.00	9.40	H
	2509.56	-61.52	-13	-48.52	-75.72	-65.09	4.88	10.60	H
	3346.08	-60.80	-13	-47.80	-77.14	-65.73	5.52	12.60	H
	1673.04	-64.67	-13	-51.67	-73.88	-67.92	4.00	9.40	V
	2509.56	-61.61	-13	-48.61	-75.77	-65.18	4.88	10.60	V
	3346.08	-61.56	-13	-48.56	-77.63	-66.49	5.52	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)
Middle	3760	-58.11	-13	-45.11	-77.19	-64.86	5.85	12.60	H
	5640	-54.45	-13	-41.45	-78.55	-60.25	7.30	13.10	H
	7520	-52.63	-13	-39.63	-79.37	-55.78	8.35	11.50	H
	3760	-58.47	-13	-45.47	-77.48	-65.22	5.85	12.60	V
	5640	-55.08	-13	-42.08	-78.43	-60.88	7.30	13.10	V
	7520	-52.34	-13	-39.34	-79.06	-55.49	8.35	11.50	V

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

GSM1900 (EDGE 1 Tx slots)									
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	3760	-58.09	-13	-45.09	-77.17	-64.84	5.85	12.60	H
	5640	-54.70	-13	-41.70	-78.80	-60.50	7.30	13.10	H
	7520	-52.46	-13	-39.46	-79.20	-55.61	8.35	11.50	H
	3760	-57.82	-13	-44.82	-76.83	-64.57	5.85	12.60	V
	5640	-55.25	-13	-42.25	-78.6	-61.05	7.30	13.10	V
	7520	-52.41	-13	-39.41	-79.13	-55.56	8.35	11.50	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	3760	-58.36	-13	-45.36	-77.44	-65.11	5.85	12.60	3760
	5640	-54.59	-13	-41.59	-78.69	-60.39	7.30	13.10	5640
	7520	-52.12	-13	-39.12	-78.86	-55.27	8.35	11.50	7520
	3760	-58.23	-13	-45.23	-77.24	-64.98	5.85	12.60	3760
	5640	-55.20	-13	-42.20	-78.55	-61.00	7.30	13.10	5640
	7520	-52.41	-13	-39.41	-79.13	-55.56	8.35	11.50	7520

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	3760	-57.70	-13	-44.70	-76.78	-64.45	5.85	12.60	H
	5640	-54.63	-13	-41.63	-78.73	-60.43	7.30	13.10	H
	7520	-52.51	-13	-39.51	-79.25	-55.66	8.35	11.50	H
	3760	-57.95	-13	-44.95	-76.96	-64.70	5.85	12.60	V
	5640	-55.10	-13	-42.10	-78.45	-60.90	7.30	13.10	V
	7520	-52.48	-13	-39.48	-79.2	-55.63	8.35	11.50	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	3465.2	-54.98	-13	-41.98	-72.42	-61.83	5.65	12.50	H
	5197.8	-56.09	-13	-43.09	-78.68	-61.76	7.13	12.80	H
	6930.4	-53.39	-13	-40.39	-79.60	-56.79	8.40	11.80	H
	3465.2	-53.96	-13	-40.96	-71.42	-60.81	5.65	12.50	V
	5197.8	-55.76	-13	-42.76	-78.66	-61.43	7.13	12.80	V
	6930.4	-52.85	-13	-39.85	-79.53	-56.25	8.40	11.80	V

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