



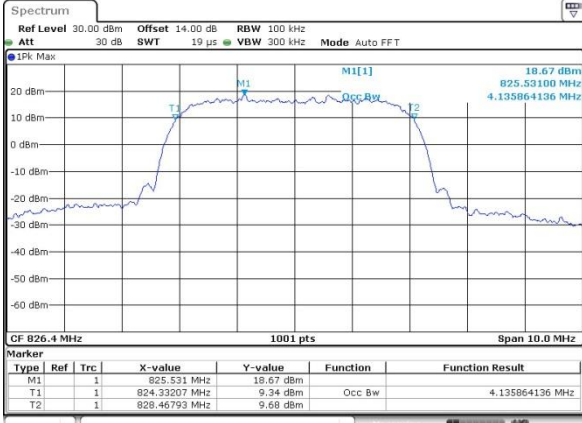
**Occupied Bandwidth**

Mode	WCDMA Band V(MHz)	WCDMA Band II(MHz)	WCDMA Band IV(MHz)
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.14	4.15	4.15
Middle CH	4.13	4.15	4.15
Highest CH	4.15	4.15	4.14



WCDMA Band V (RMC 12.2Kbps)

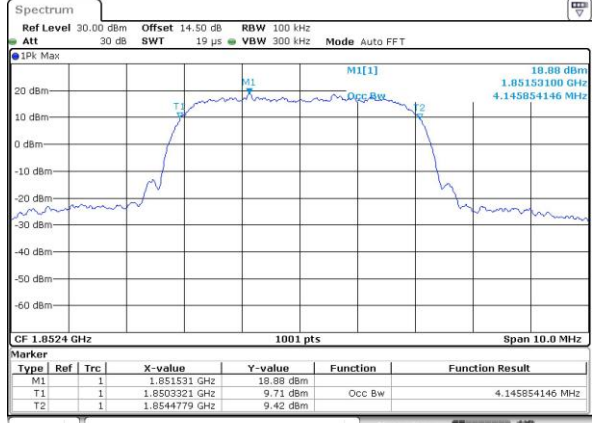
Lowest Channel



Date: 8.FEB.2021 10:41:37

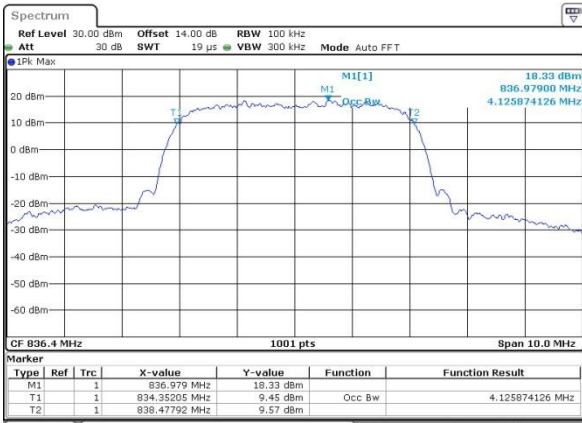
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



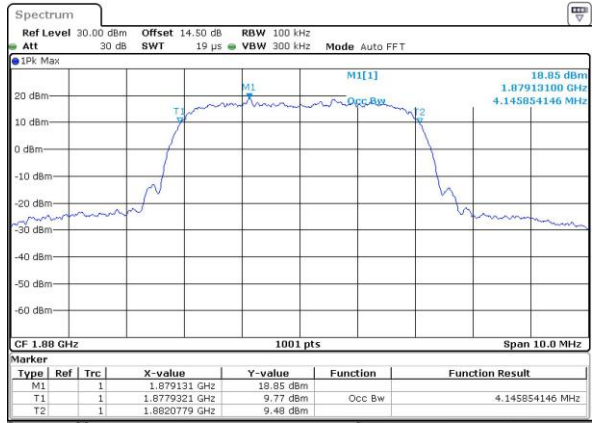
Date: 8.FEB.2021 09:34:18

Middle Channel



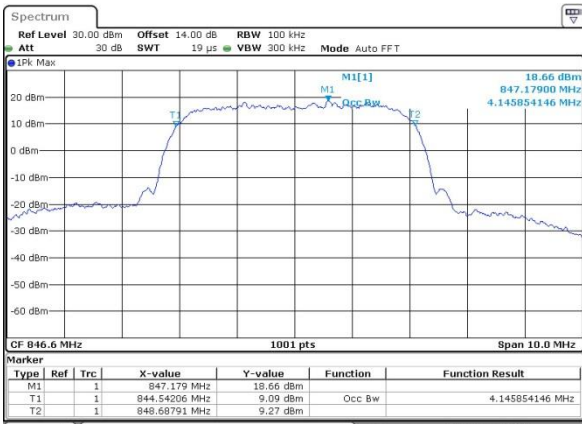
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Middle Channel



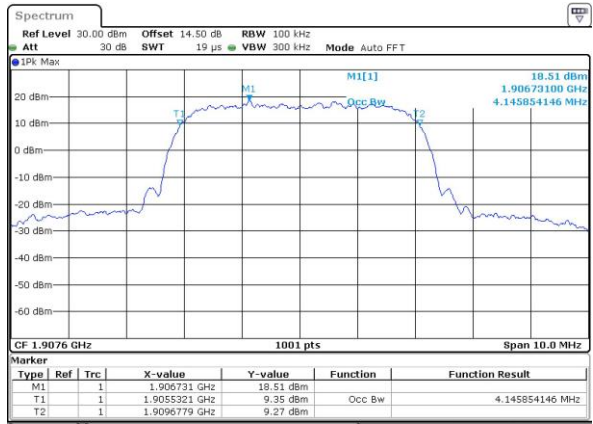
Date: 8.FEB.2021 09:34:39

Highest Channel

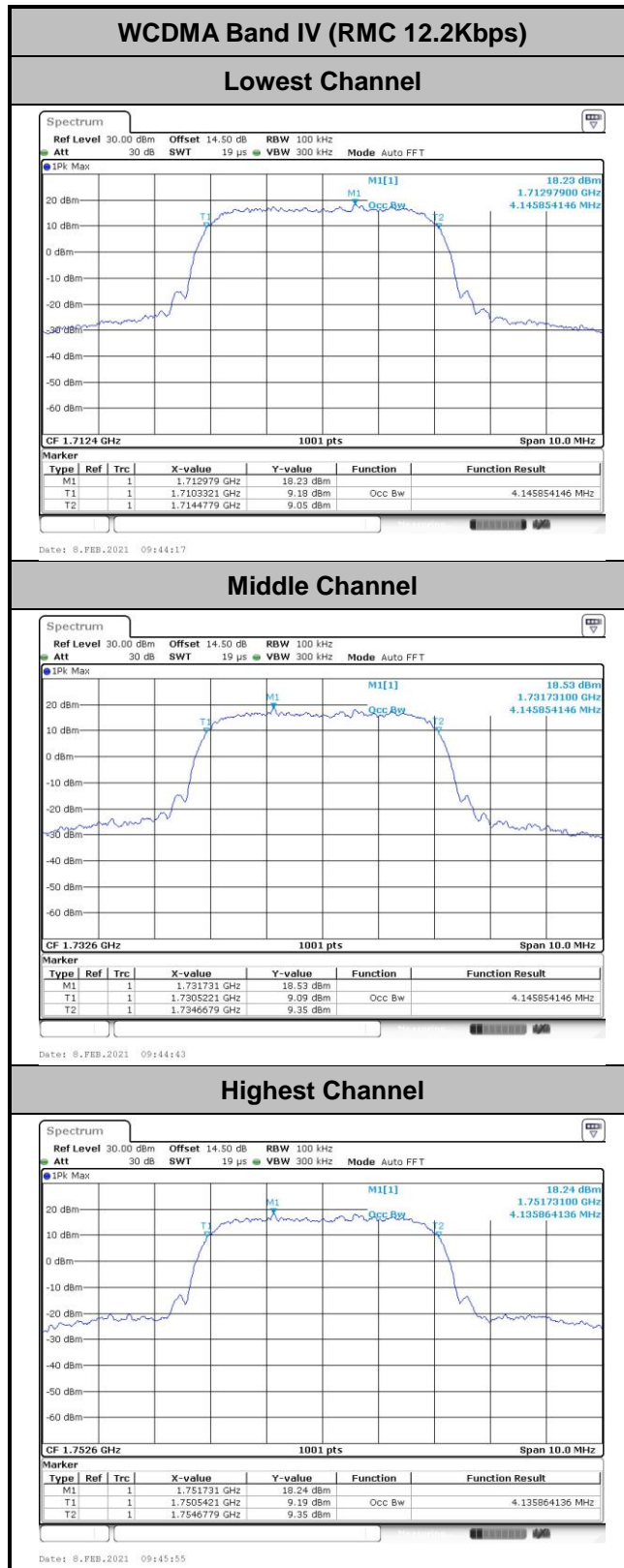


Date: 8.FEB.2021 10:43:03

Highest Channel

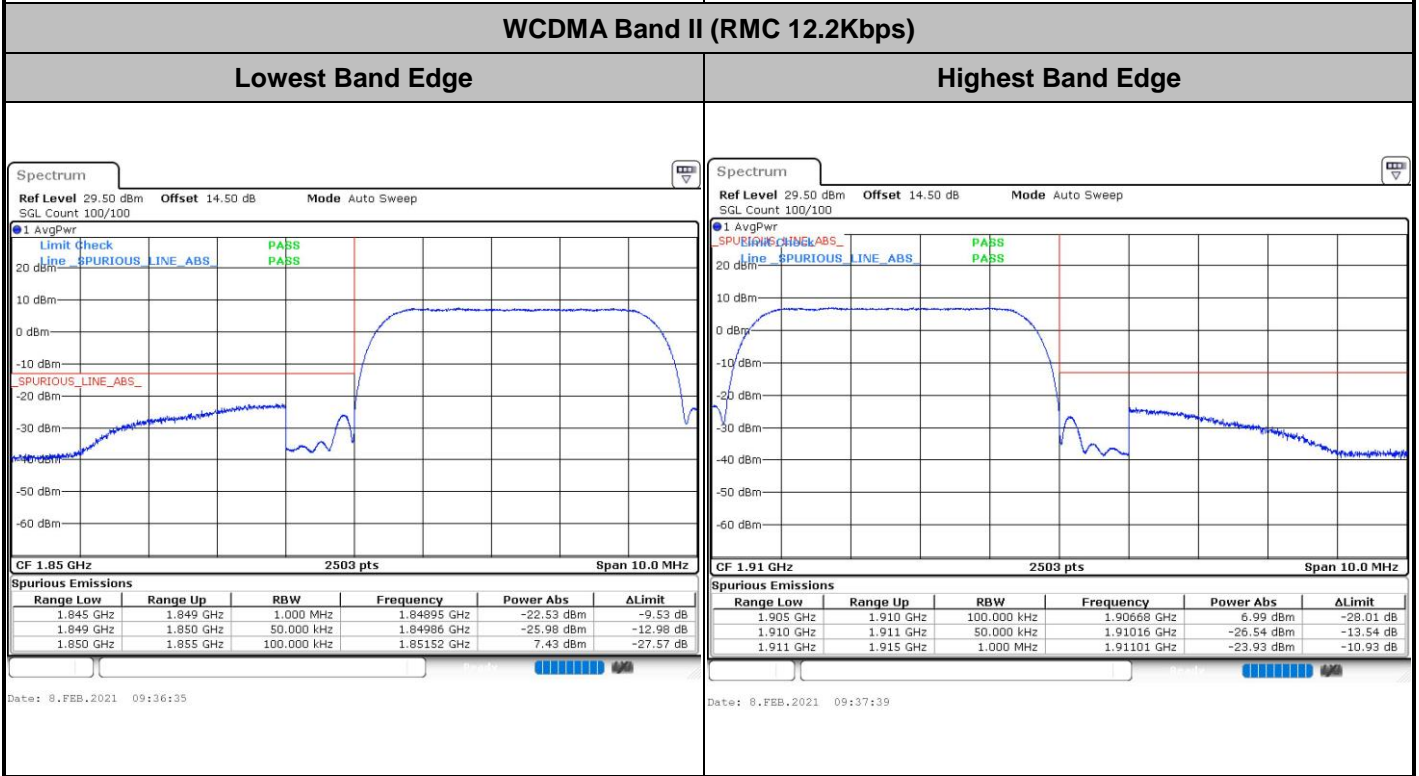
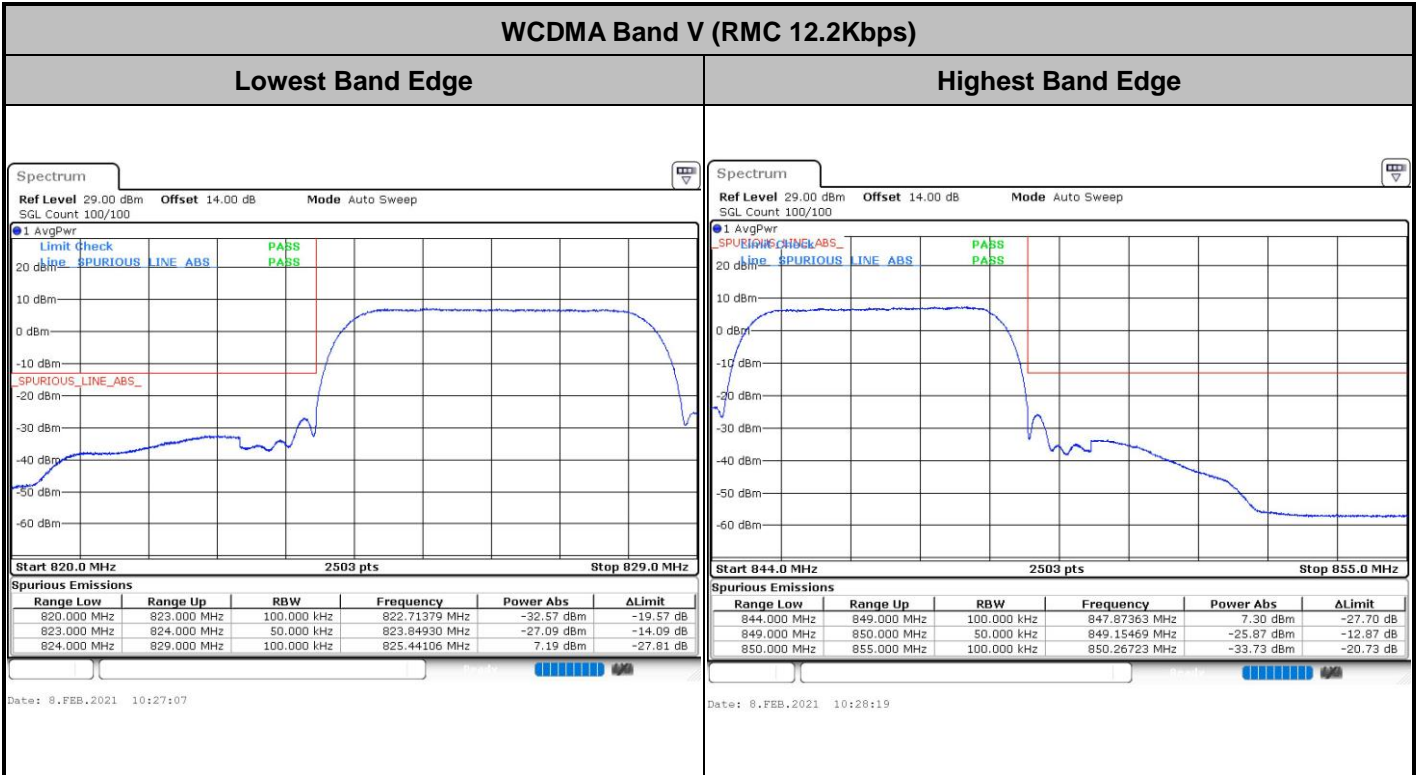


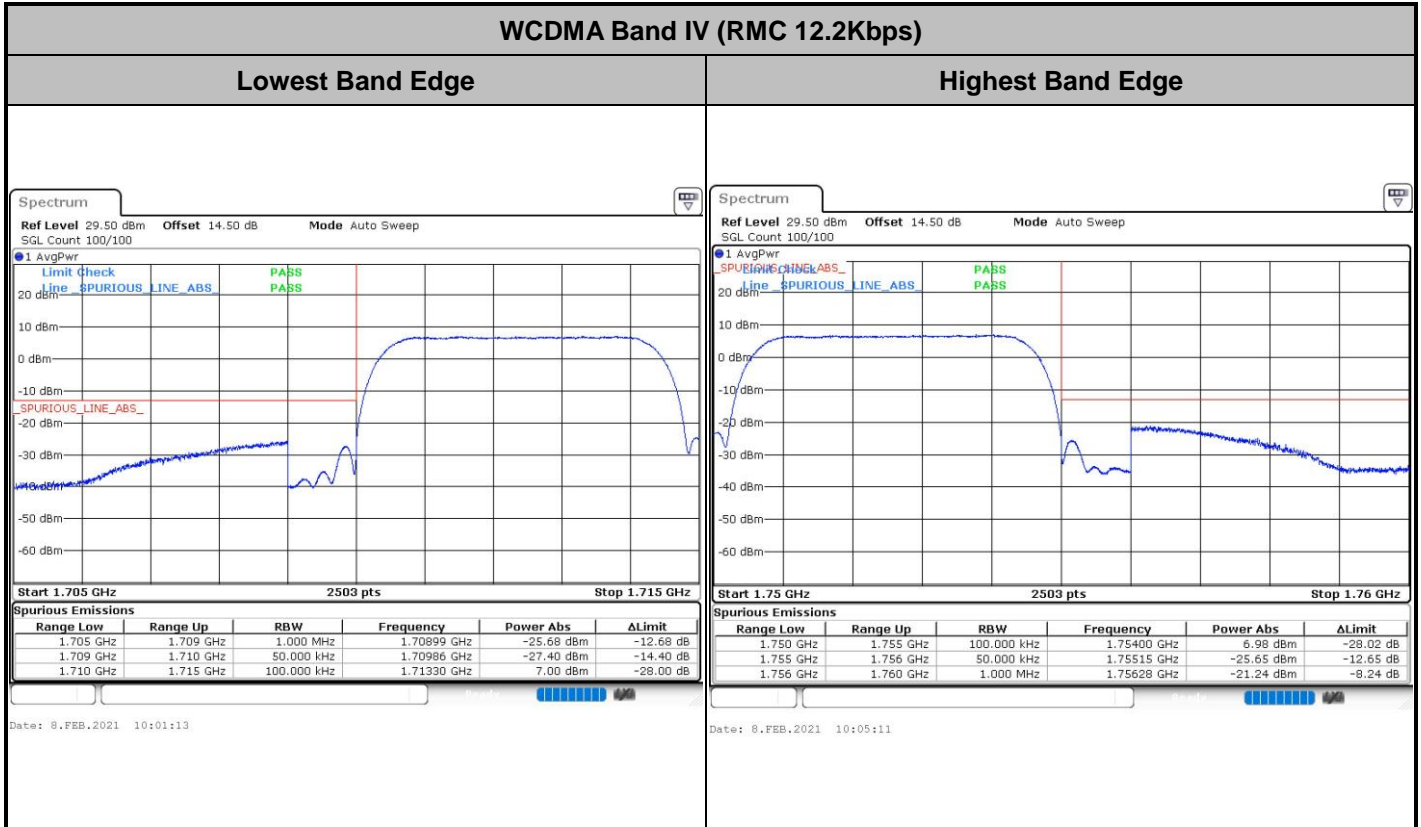
Date: 8.FEB.2021 09:35:05





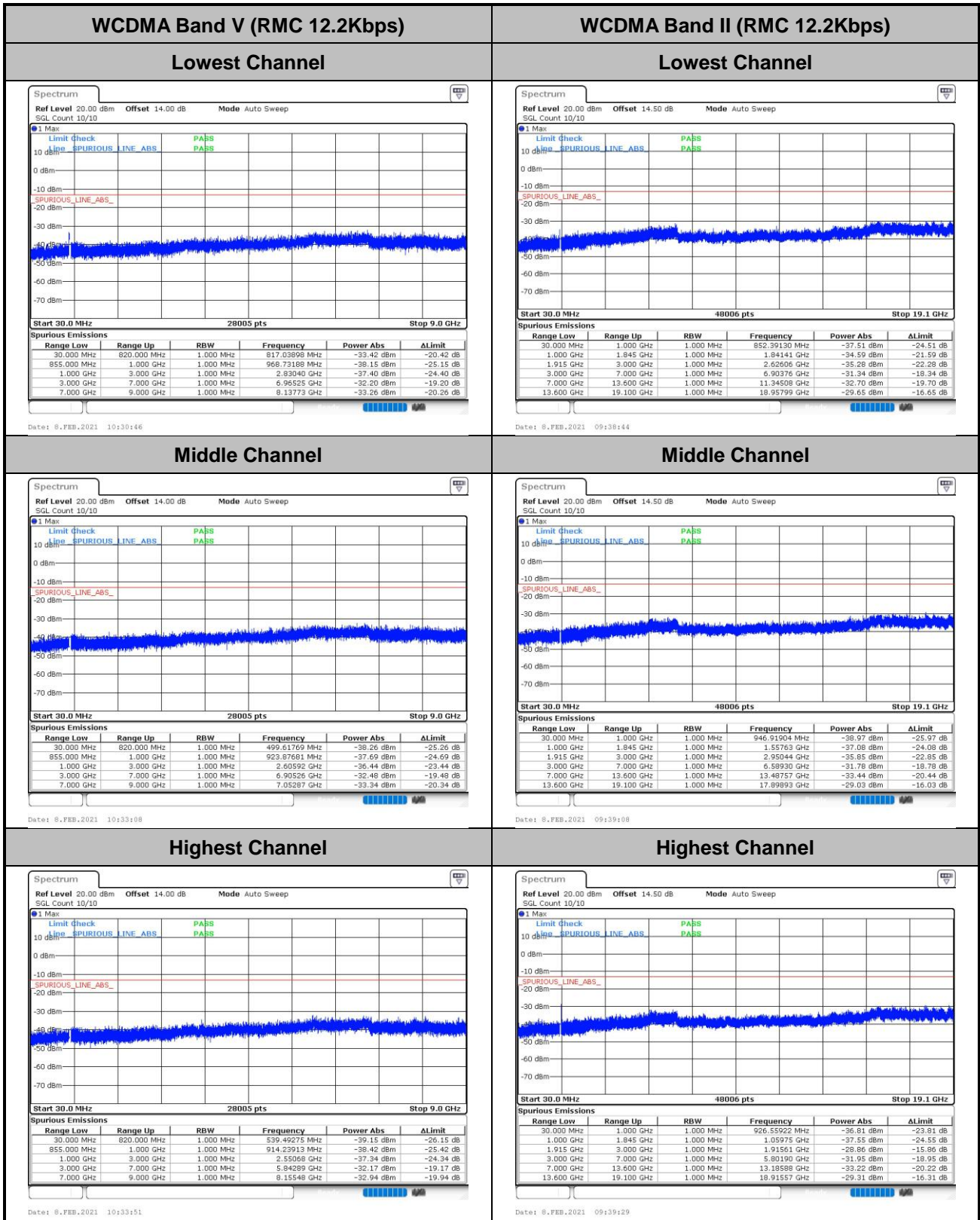
# Conducted Band Edge

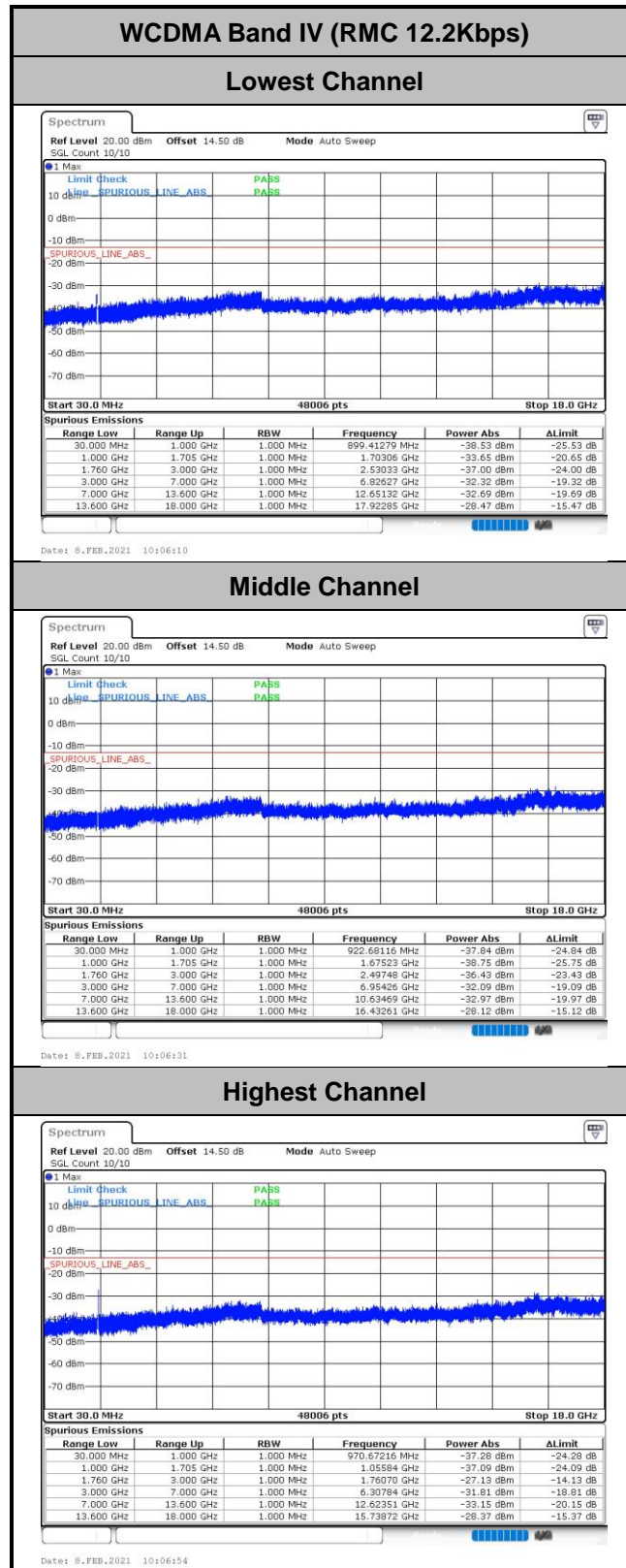






# Conducted Spurious Emission









**Frequency Stability**

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	0.0014	PASS
40	Normal Voltage	0.0000	
30	Normal Voltage	0.0021	
20(Ref.)	Normal Voltage	0.0016	
10	Normal Voltage	0.0004	
0	Normal Voltage	0.0011	
-10	Normal Voltage	0.0008	
-20	Normal Voltage	0.0006	
-30	Normal Voltage	0.0015	
20	Maximum Voltage	0.0003	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0008	

Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0012	PASS
40	Normal Voltage	0.0015	
30	Normal Voltage	0.0016	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0021	
0	Normal Voltage	0.0013	
-10	Normal Voltage	0.0035	
-20	Normal Voltage	0.0024	
-30	Normal Voltage	0.0011	
20	Maximum Voltage	0.0008	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0016	

**Note:**

1. Normal Voltage = 3.87V. ; Battery End Point (BEP) = 3.4 V. ; Maximum Voltage =4.45 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	0.0032	PASS
40	Normal Voltage	0.0018	
30	Normal Voltage	0.0003	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0005	
0	Normal Voltage	0.0020	
-10	Normal Voltage	0.0048	
-20	Normal Voltage	0.0003	
-30	Normal Voltage	0.0016	
20	Maximum Voltage	0.0002	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0001	

**Note:**

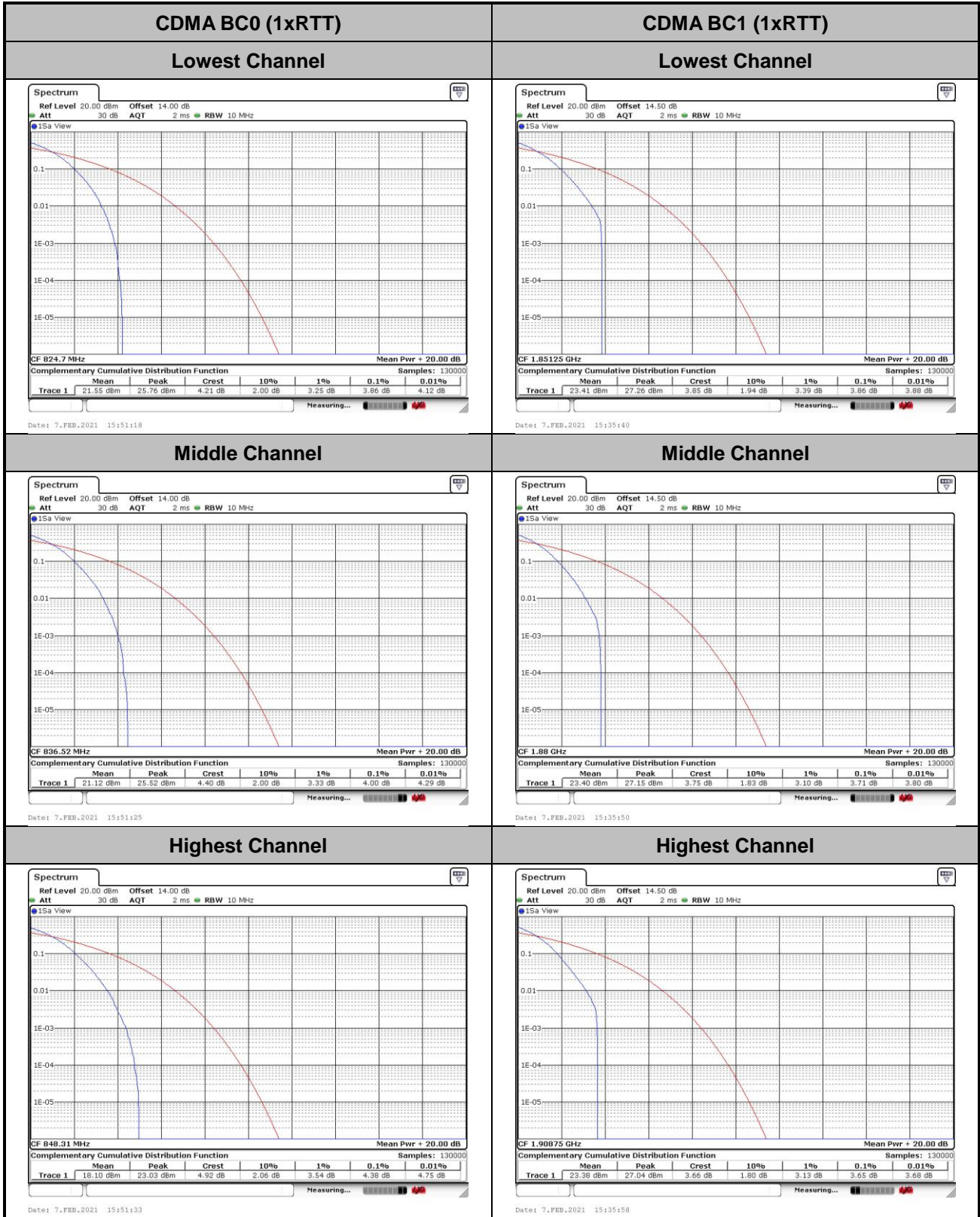
1. Normal Voltage = 3.87V. ; Battery End Point (BEP) = 3.4 V. ; Maximum Voltage =4.45 V
2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



# CDMA

## Peak-to-Average Ratio

Mode	CDMA BC0(dB)	CDMA BC1(dB)	Limit: 13dB
Mod.	1xRTT	1xRTT	Result
Lowest CH	3.85	3.85	PASS
Middle CH	4.00	3.71	
Highest CH	4.38	3.65	





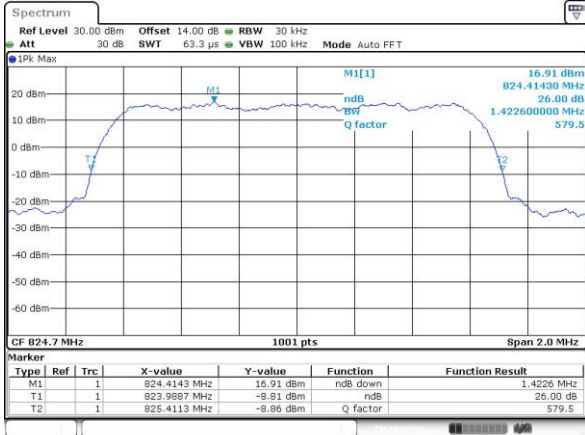
**26dB Bandwidth**

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	1.43



CDMA BC0 (1xRTT)

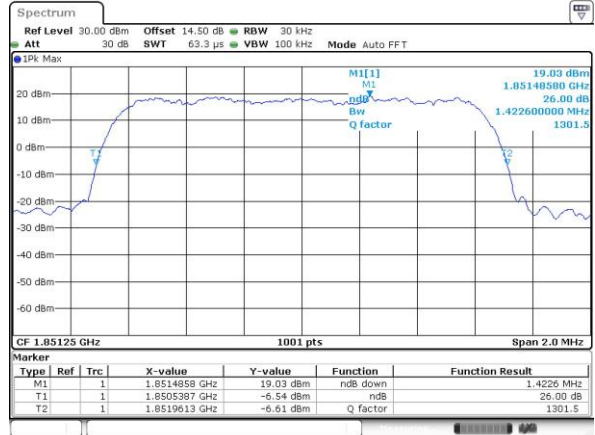
Lowest Channel



Date: 7.FEB.2021 15:41:08

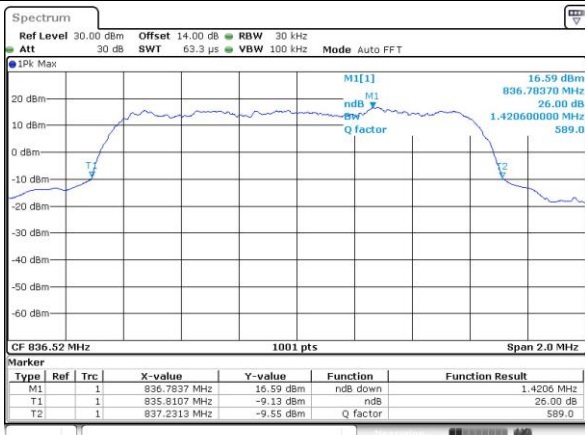
CDMA BC1 (1xRTT)

Lowest Channel



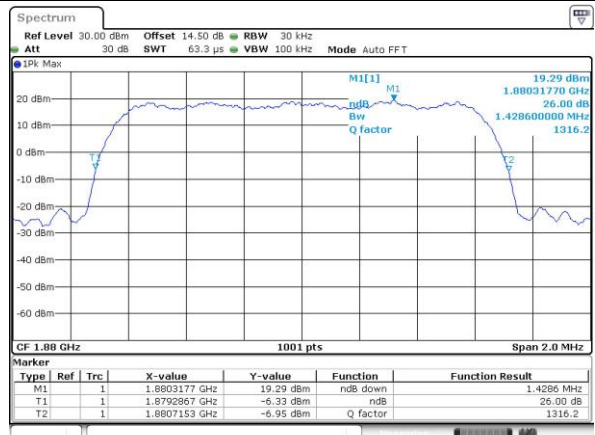
Date: 7.FEB.2021 15:21:47

Middle Channel



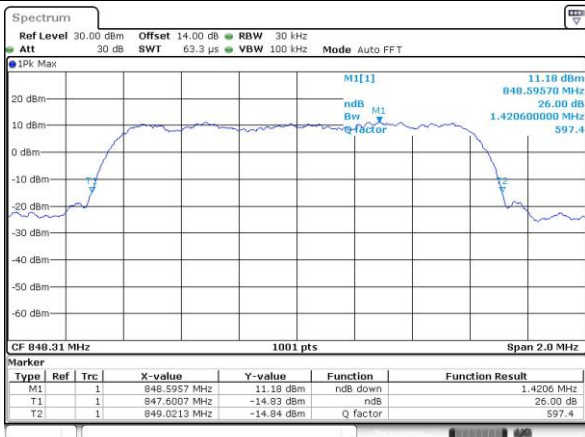
Date: 7.FEB.2021 15:41:32

Middle Channel



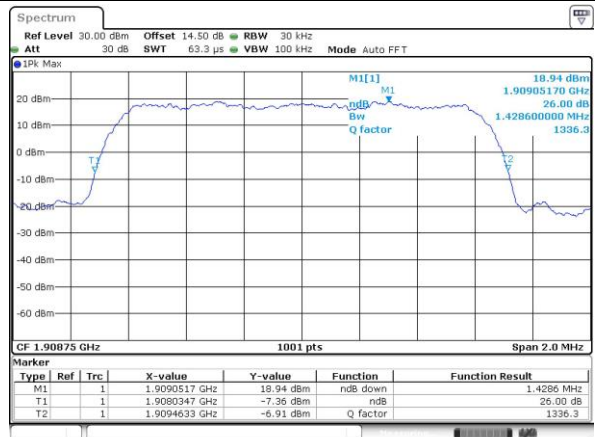
Date: 7.FEB.2021 15:22:07

Highest Channel



Date: 7.FEB.2021 15:42:00

Highest Channel



Date: 7.FEB.2021 15:22:29



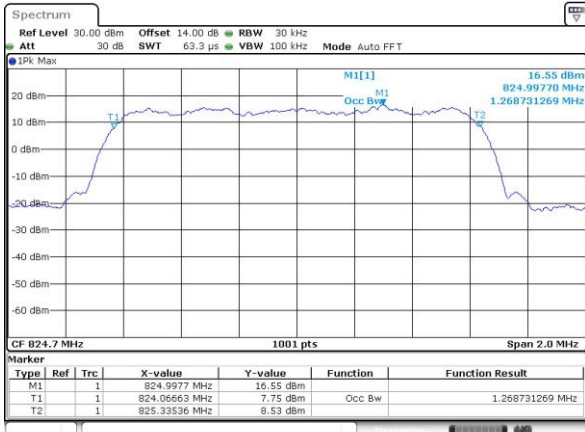
### Occupied Bandwidth

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)

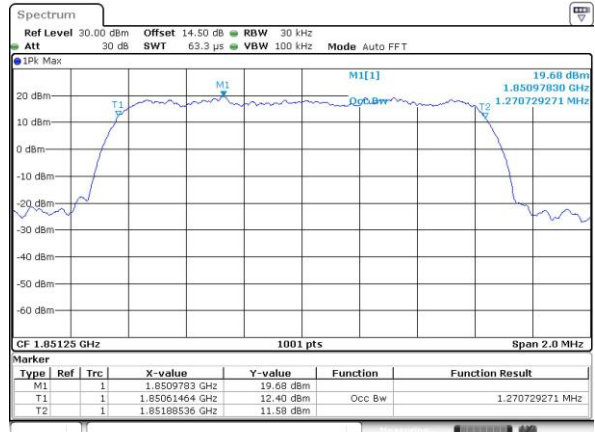
Lowest Channel



Date: 7.FEB.2021 15:42:32

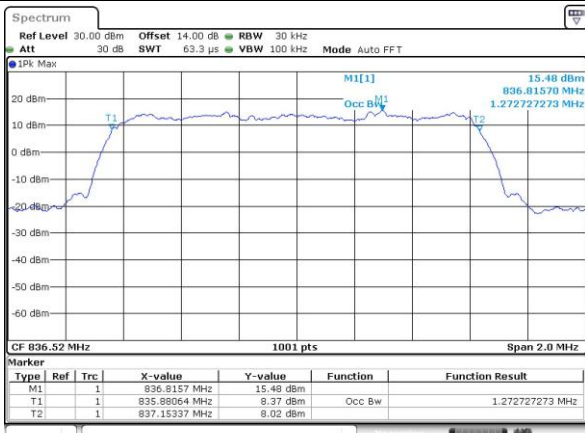
CDMA BC1 (1xRTT)

Lowest Channel



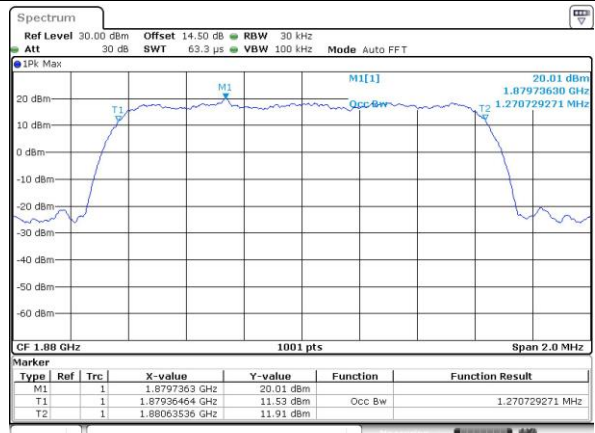
Date: 7.FEB.2021 15:23:58

Middle Channel



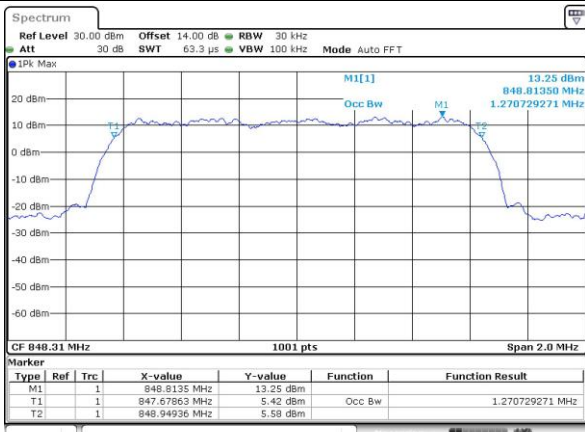
Date: 7.FEB.2021 15:42:53

Middle Channel



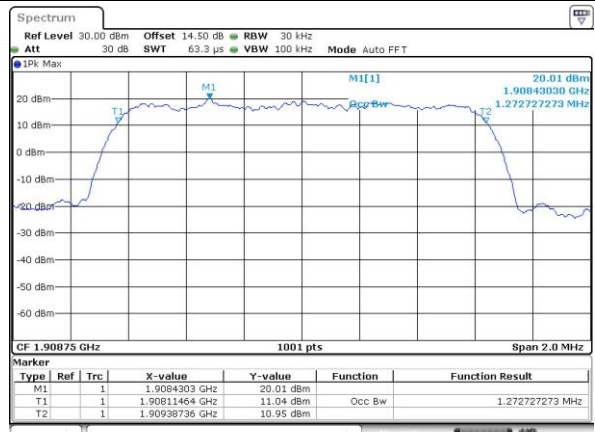
Date: 7.FEB.2021 15:24:27

Highest Channel



Date: 7.FEB.2021 15:43:14

Highest Channel

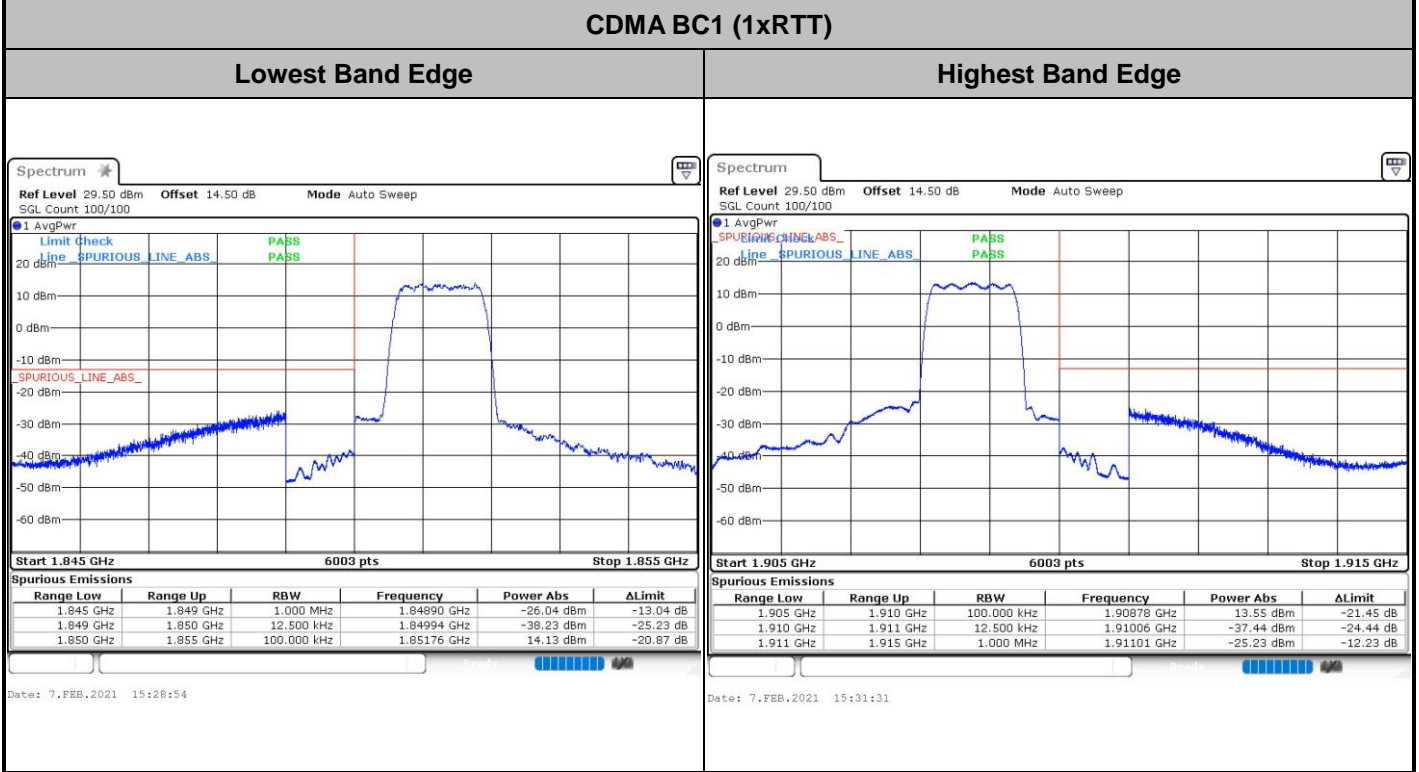
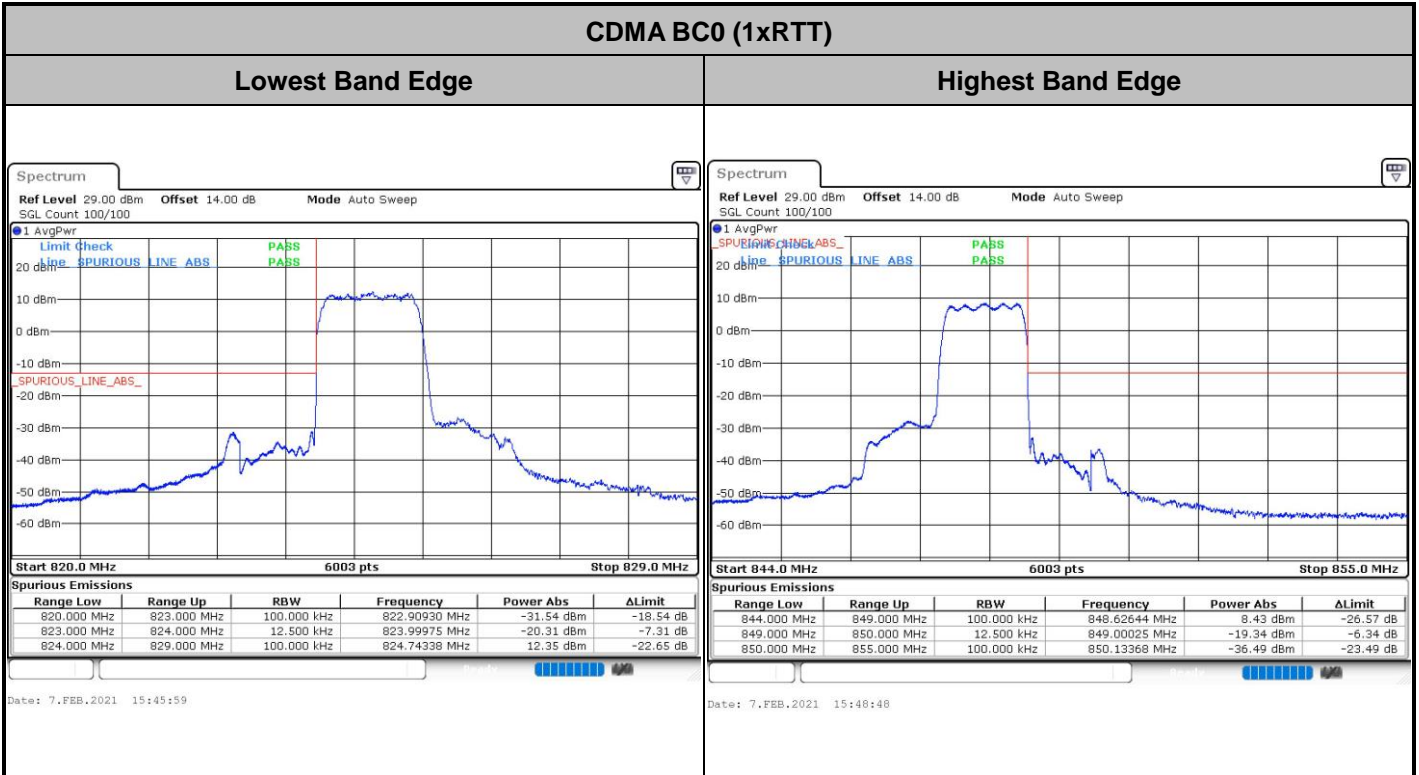


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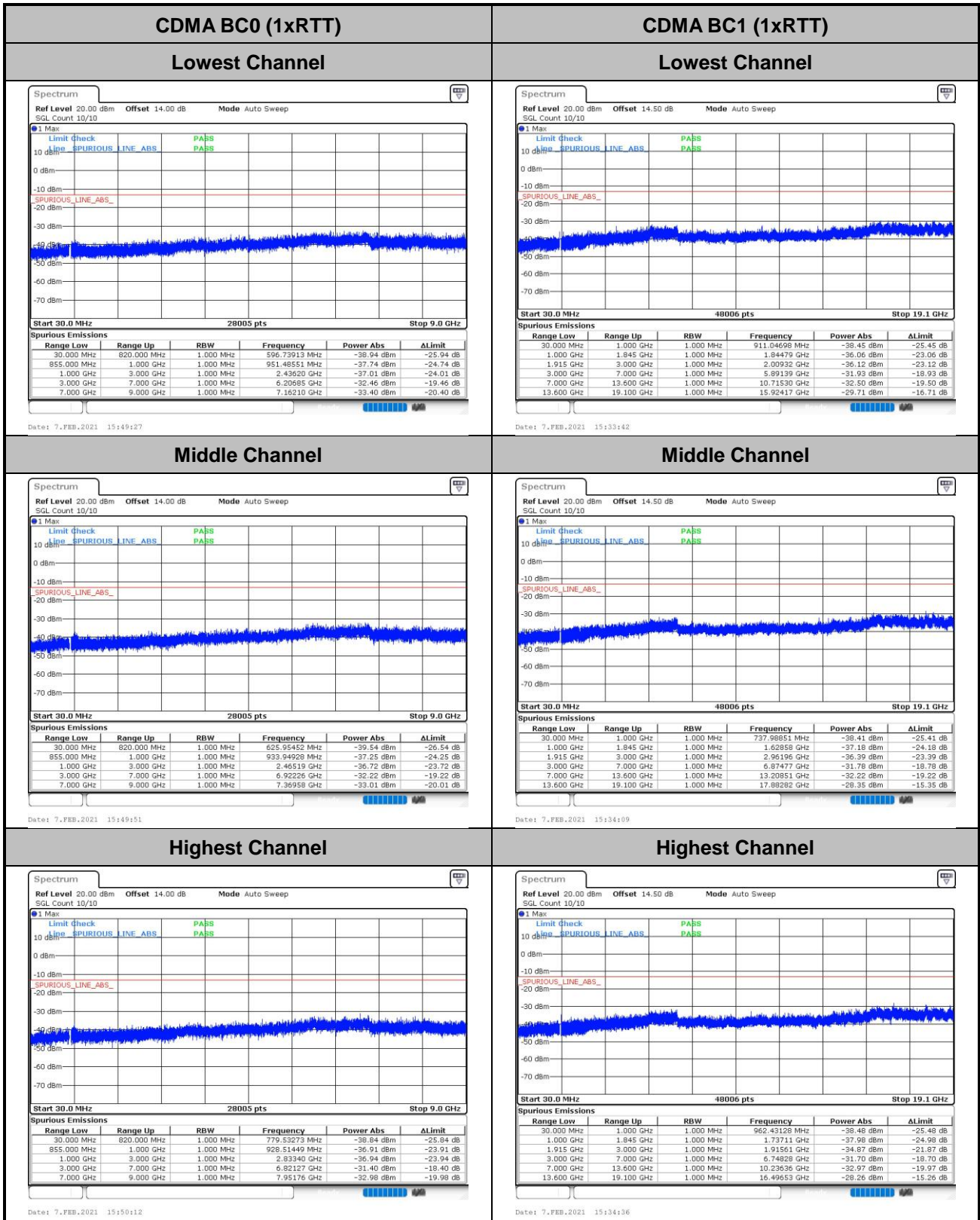


# Conducted Band Edge





# 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	0.0043	PASS
40	Normal Voltage	0.0065	
30	Normal Voltage	0.0215	
20(Ref.)	Normal Voltage	0.0034	
10	Normal Voltage	0.0158	
0	Normal Voltage	0.0034	
-10	Normal Voltage	0.0098	
-20	Normal Voltage	0.0053	
-30	Normal Voltage	0.0015	
20	Maximum Voltage	0.0034	
20	Normal Voltage	0.0028	
20	Battery End Point	0.0217	

Test Conditions	Middle Channel	CDMA BC1 (1xRTT)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0032	PASS
40	Normal Voltage	0.0068	
30	Normal Voltage	0.0047	
20(Ref.)	Normal Voltage	0.0031	
10	Normal Voltage	0.0081	
0	Normal Voltage	0.0125	
-10	Normal Voltage	0.0005	
-20	Normal Voltage	0.0016	
-30	Normal Voltage	0.0024	
20	Maximum Voltage	0.0046	
20	Normal Voltage	0.0029	
20	Battery End Point	0.0038	

Note:

1. Normal Voltage = 3.87V. ; Battery End Point (BEP) = 3.4 V. ; Maximum Voltage =4.45 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

Pre-scanned harmonic for RSE testing, we choice worse case of antenna combination to full test.

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	-56.05	-13	-43.05	-65.81	-59.30	4.00	9.40	H
	2509.2	-57.58	-13	-44.58	-71.78	-61.15	4.88	10.60	H
	3345.6	-60.49	-13	-47.49	-76.83	-65.42	5.52	12.60	H
	1672.8	-56.46	-13	-43.46	-65.67	-59.71	4.00	9.40	V
	2509.2	-57.16	-13	-44.16	-71.32	-60.73	4.88	10.60	V
	3345.6	-59.09	-13	-46.09	-75.16	-64.02	5.52	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)
Middle	1672.8	-59.05	-13	-46.05	-68.81	-62.30	4.00	9.40	H
	2509.2	-59.33	-13	-46.33	-73.53	-62.90	4.88	10.60	H
	3345.6	-60.43	-13	-47.43	-76.77	-65.36	5.52	12.60	H
	1672.8	-58.34	-13	-45.34	-67.55	-61.59	4.00	9.40	V
	2509.2	-55.49	-13	-42.49	-69.65	-59.06	4.88	10.60	V
	3345.6	-60.44	-13	-47.44	-76.51	-65.37	5.52	12.60	V

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



GSM1900 (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	3760	-57.64	-13	-44.64	-76.72	-64.39	5.85	12.60	H
	5640	-54.90	-13	-41.90	-79.00	-60.70	7.30	13.10	H
	7520	-51.62	-13	-38.62	-78.36	-54.77	8.35	11.50	H
	3760	-57.83	-13	-44.83	-76.84	-64.58	5.85	12.60	V
	5640	-55.43	-13	-42.43	-78.78	-61.23	7.30	13.10	V
	7520	-51.68	-13	-38.68	-78.4	-54.83	8.35	11.50	V

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

GSM1900 (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	3760	-57.41	-13	-44.41	-76.49	-64.16	5.85	12.60	H
	5640	-54.68	-13	-41.68	-78.78	-60.48	7.30	13.10	H
	7520	-52.07	-13	-39.07	-78.81	-55.22	8.35	11.50	H
	3760	-58.10	-13	-45.10	-77.11	-64.85	5.85	12.60	V
	5640	-55.85	-13	-42.85	-79.2	-61.65	7.30	13.10	V
	7520	-52.42	-13	-39.42	-79.14	-55.57	8.35	11.50	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	-64.22	-13	-51.22	-73.98	-67.47	4.00	9.40	H
	2509.2	-61.73	-13	-48.73	-75.93	-65.30	4.88	10.60	H
	3345.6	-60.41	-13	-47.41	-76.75	-65.34	5.52	12.60	H
	1672.8	-64.68	-13	-51.68	-73.89	-67.93	4.00	9.40	V
	2509.2	-61.70	-13	-48.70	-75.86	-65.27	4.88	10.60	V
	3345.6	-60.57	-13	-47.57	-76.64	-65.50	5.52	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 )	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	3760	-54.48	-13	-41.48	-71.35	-61.23	5.85	12.60	H
	5640	-54.33	-13	-41.33	-75.27	-60.13	7.30	13.10	H
	7520	-52.83	-13	-39.83	-77.75	-55.98	8.35	11.50	H
	3760	-57.78	-13	-44.78	-74.58	-64.53	5.85	12.60	V
	5640	-58.06	-13	-45.06	-78.25	-63.86	7.30	13.10	V
	7520	-53.44	-13	-40.44	-78.34	-56.59	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 )	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	3465.2	-61.63	-13	-48.63	-76.45	-68.48	5.65	12.50	H
	5197.8	-56.54	-13	-43.54	-76.00	-62.21	7.13	12.80	H
	6930.4	-56.79	-13	-43.79	-79.81	-60.19	8.40	11.80	H
	3465.2	-61.86	-13	-48.86	-76.71	-68.71	5.65	12.50	V
	5197.8	-59.85	-13	-46.85	-78.93	-65.52	7.13	12.80	V
	6930.4	-56.62	-13	-43.62	-79.93	-60.02	8.40	11.80	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	-63.35	-13	-50.35	-73.11	-66.60	4.00	9.40	H
	2509.56	-60.55	-13	-47.55	-74.75	-64.12	4.88	10.60	H
	3346.08	-59.72	-13	-46.72	-76.06	-64.65	5.52	12.60	H
	1673.04	-63.93	-13	-50.93	-73.14	-67.18	4.00	9.40	V
	2509.56	-60.76	-13	-47.76	-74.92	-64.33	4.88	10.60	V
	3346.08	-60.07	-13	-47.07	-76.14	-65.00	5.52	12.60	V

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

CDMA BC1(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	3760	-57.91	-13	-44.91	-76.99	-64.66	5.85	12.60	H
	5640	-55.08	-13	-42.08	-79.18	-60.88	7.30	13.10	H
	7520	-51.77	-13	-38.77	-78.51	-54.92	8.35	11.50	H
	3760	-57.83	-13	-44.83	-76.84	-64.58	5.85	12.60	V
	5640	-55.82	-13	-42.82	-79.17	-61.62	7.30	13.10	V
	7520	-52.17	-13	-39.17	-78.89	-55.32	8.35	11.50	V

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