



**Occupied Bandwidth**

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

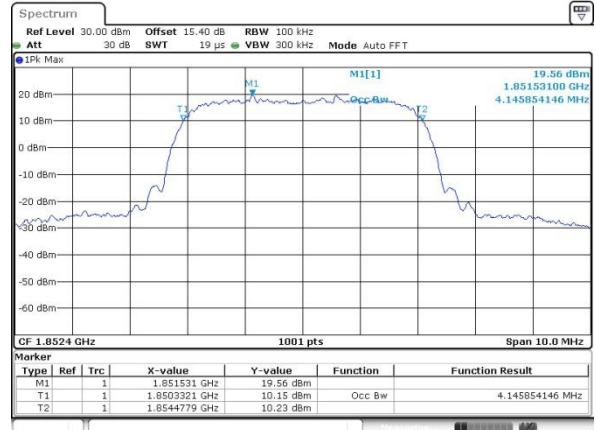
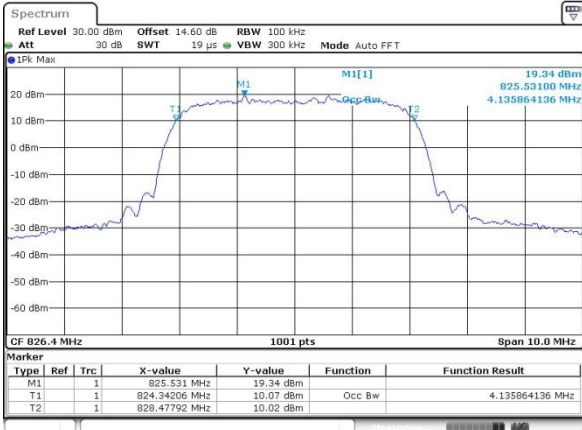


WCDMA Band V (RMC 12.2Kbps)

WCDMA Band II (RMC 12.2Kbps)

Lowest Channel

Lowest Channel

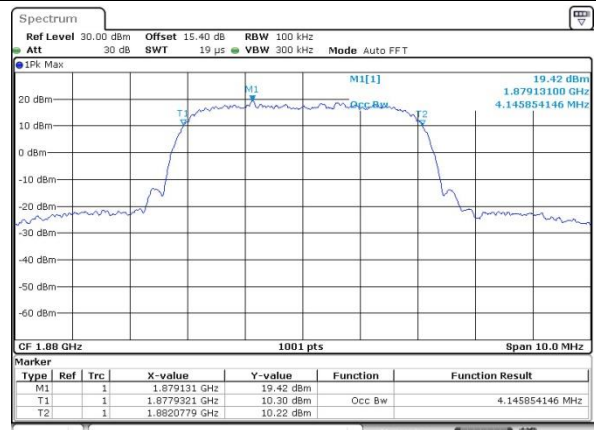
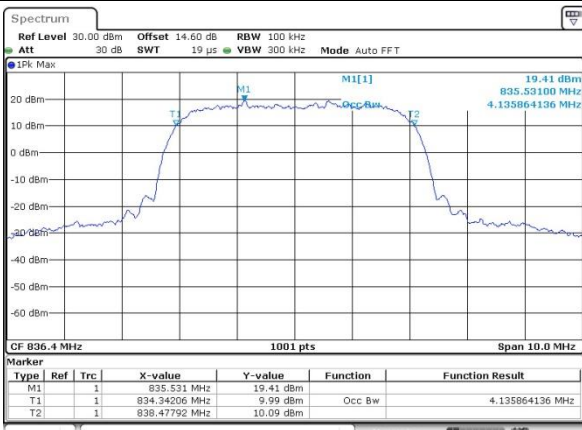


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Middle Channel

Middle Channel

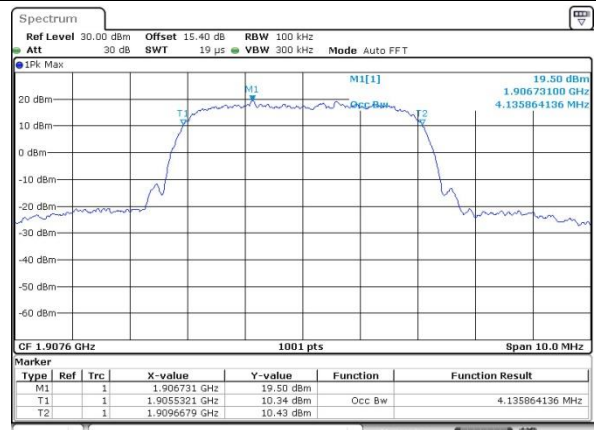
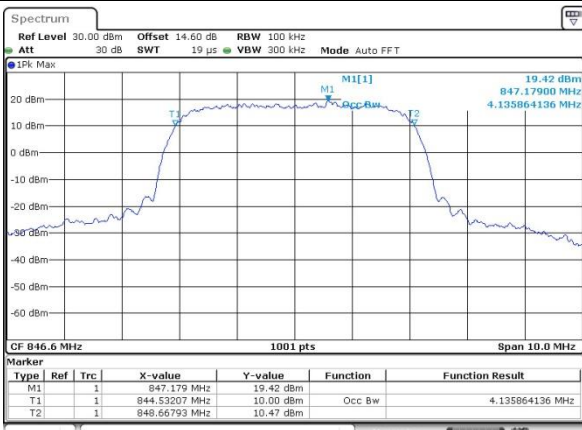


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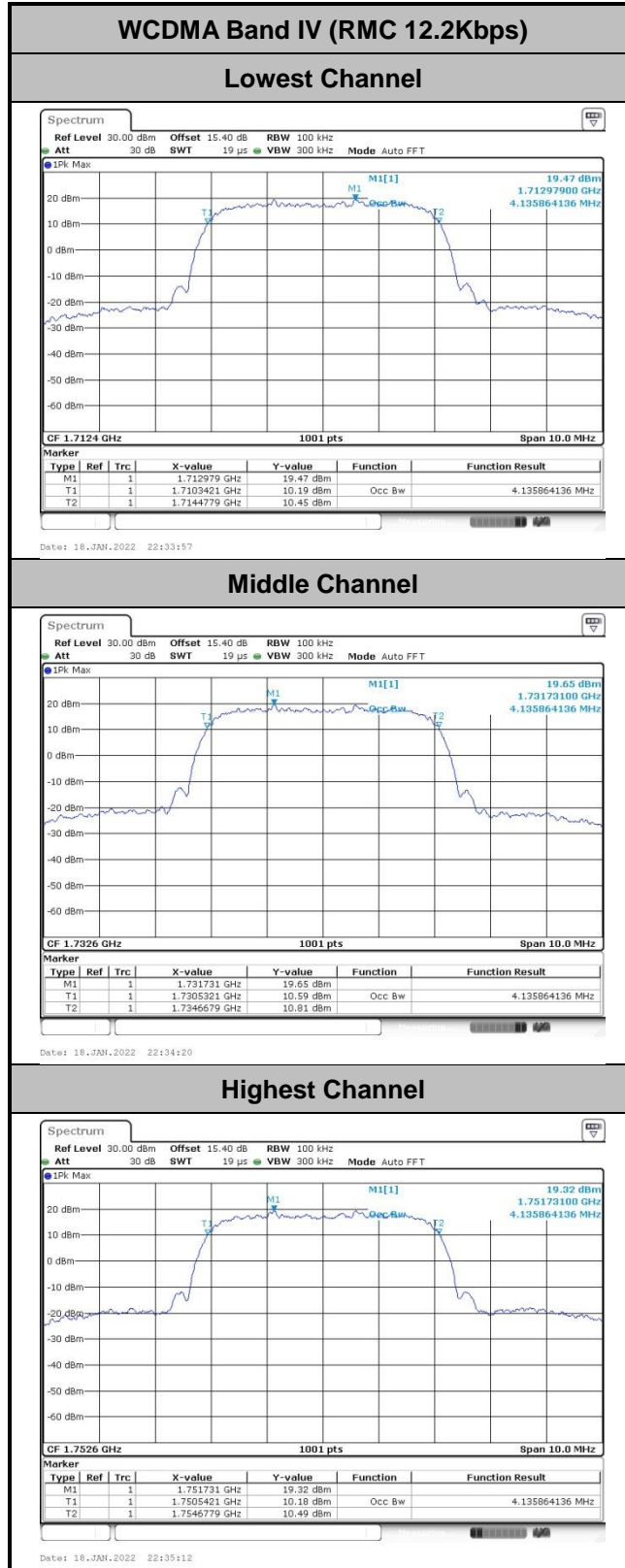
Highest Channel

Highest Channel



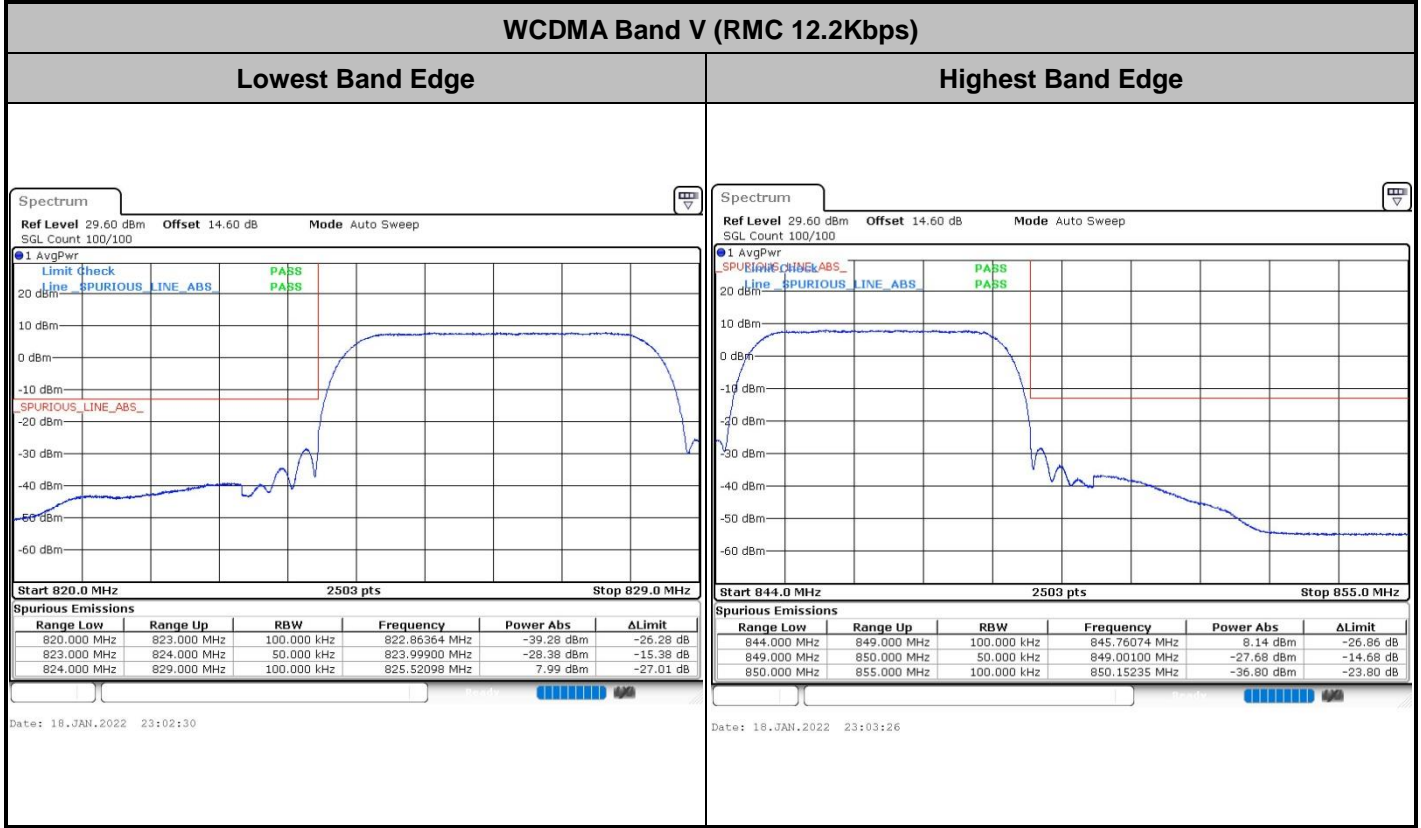
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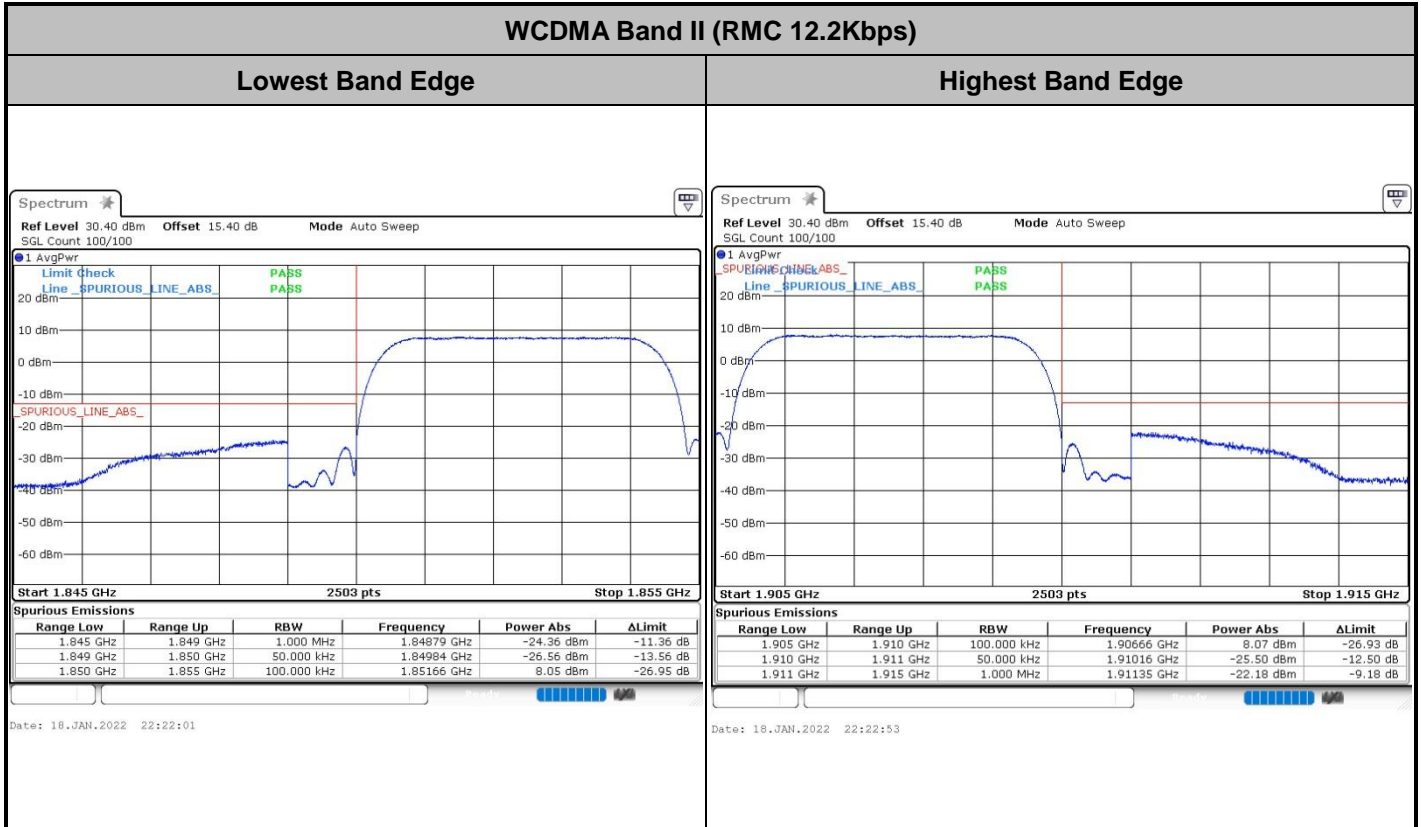
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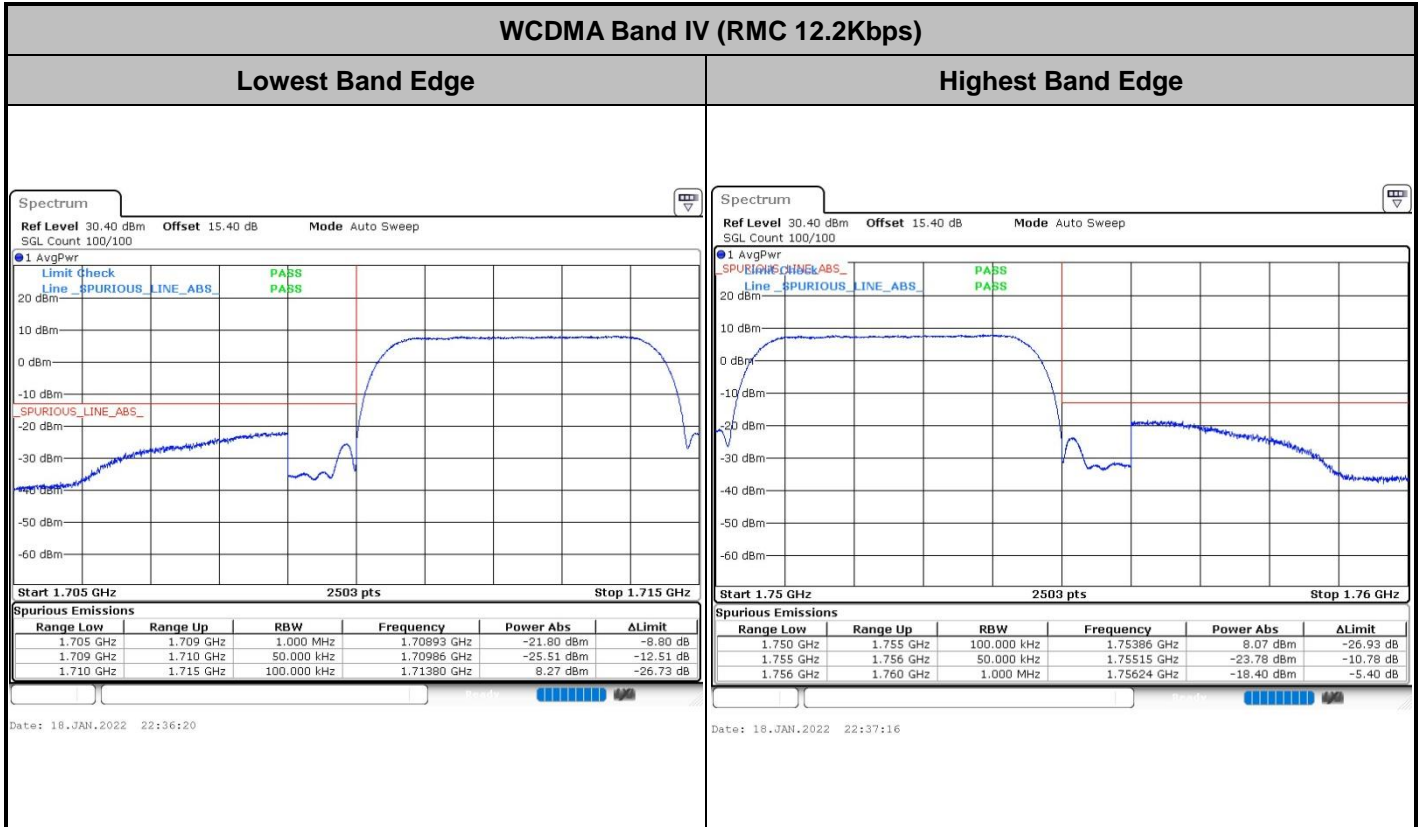




# Conducted Band Edge

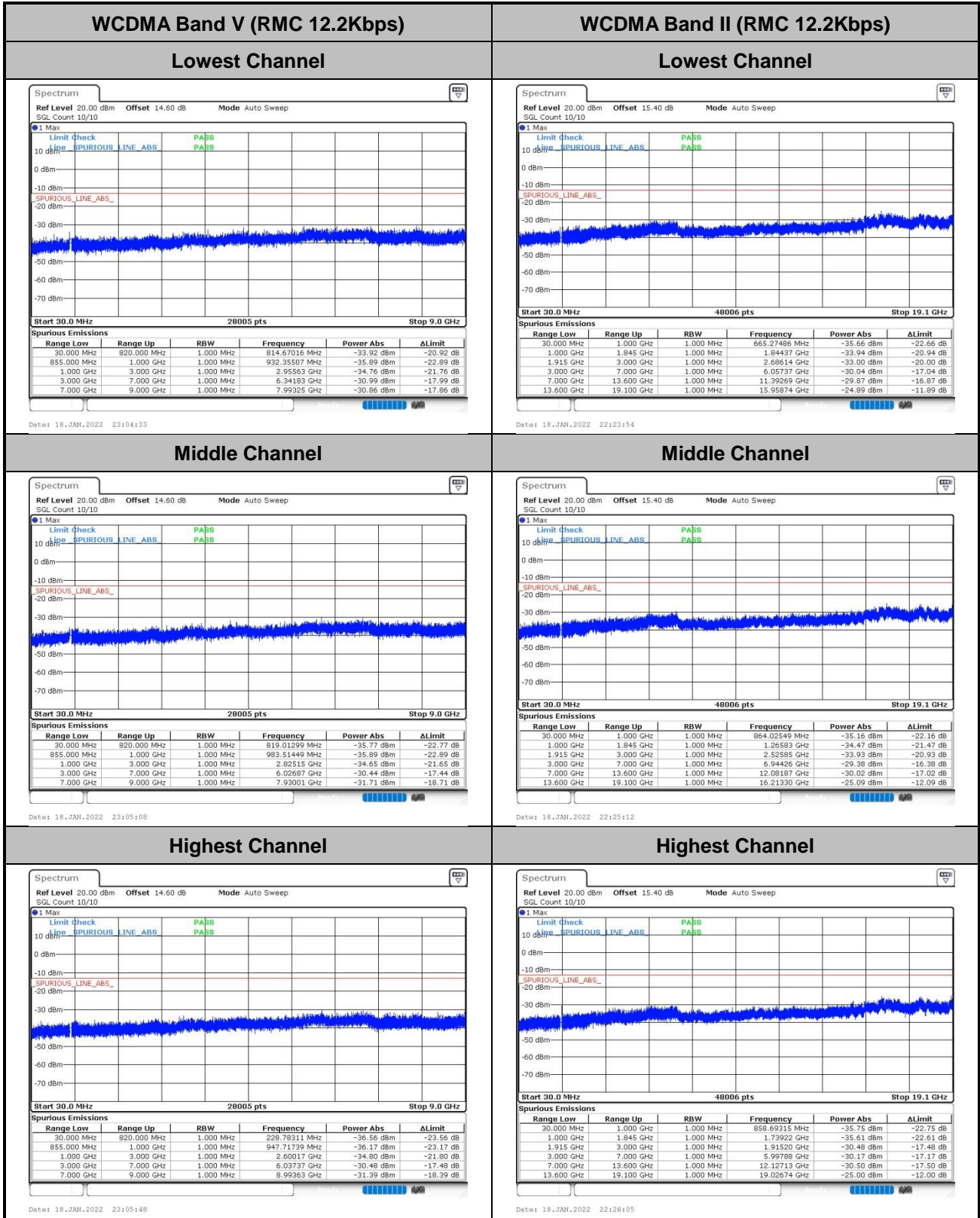




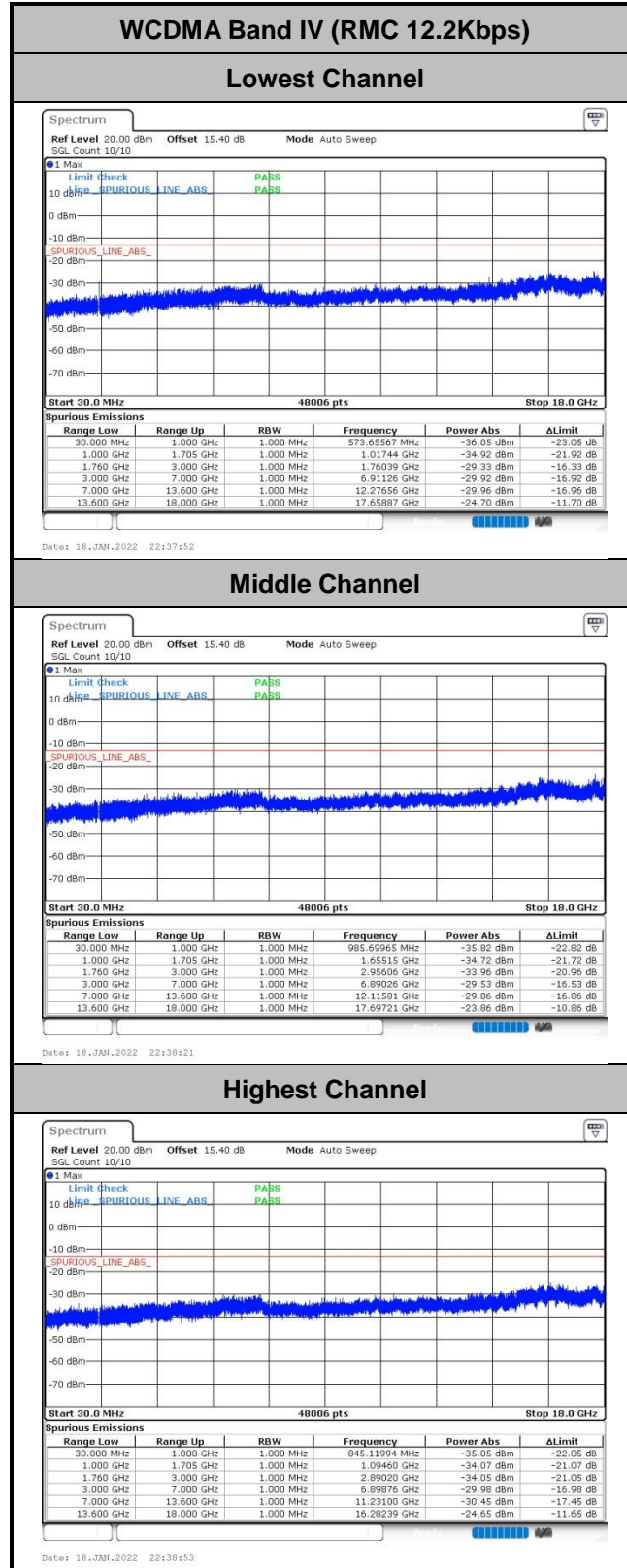




# Conducted Spurious Emission









**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	0.0057	PASS
40	Normal Voltage	0.0047	
30	Normal Voltage	0.0051	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0007	
0	Normal Voltage	0.0021	
-10	Normal Voltage	0.0063	
-20	Normal Voltage	0.0053	
-30	Normal Voltage	0.0010	
20	Maximum Voltage	0.0022	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0061	

Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0062	PASS
40	Normal Voltage	0.0021	
30	Normal Voltage	0.0033	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0042	
0	Normal Voltage	0.0031	
-10	Normal Voltage	0.0041	
-20	Normal Voltage	0.0031	
-30	Normal Voltage	0.0052	
20	Maximum Voltage	0.0043	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0012	



Test Conditions	Middle Channel	WCDMA Band IV (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0036	PASS
40	Normal Voltage	0.0025	
30	Normal Voltage	0.0009	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0014	
0	Normal Voltage	0.0036	
-10	Normal Voltage	0.0051	
-20	Normal Voltage	0.0059	
-30	Normal Voltage	0.0065	
20	Maximum Voltage	0.0028	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0018	

**Note:**

1. Normal Voltage = 3.89V ; Battery End Point (BEP) =3.4V. ; Maximum Voltage =4.4V
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

Test Engineer :	Chris Chen	Temperature :	22~23°C
		Relative Humidity :	41~42%

GSM850 (GSM)								
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization (H/V)
Middle	1672	-51.09	-13	-38.09	-58.06	1.58	10.70	H
	2510	-43.64	-13	-30.64	-51.89	2.102	12.50	H
	3348	-59.87	-13	-46.87	-68.76	2.856	13.90	H
	1672	-46.93	-13	-33.93	-53.90	1.58	10.70	V
	2510	-45.28	-13	-32.28	-53.53	2.10	12.50	V
	3348	-60.15	-13	-47.15	-69.04	2.86	13.90	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 )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization (H/V)
Middle	1672	-51.30	-13	-38.30	-58.27	1.58	10.70	H
	2512	-44.18	-13	-31.18	-52.43	2.102	12.50	H
	3344	-59.91	-13	-46.91	-68.80	2.856	13.90	H
	1672	-49.82	-13	-36.82	-56.79	1.58	10.70	V
	2512	-44.55	-13	-31.55	-52.80	2.10	12.50	V
	3344	-60.01	-13	-47.01	-68.90	2.86	13.90	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 )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization (H/V)
Middle	3765	-54.82	-13	-41.82	-67.08	2.64	14.90	H
	5640	-49.91	-13	-36.91	-61.77	2.94	14.80	H
	7515	-52.45	-13	-39.45	-62.22	3.39	13.16	H
	3765	-55.74	-13	-42.74	-68.00	2.64	14.90	V
	5640	-54.16	-13	-41.16	-66.02	2.94	14.80	V
	7515	-52.27	-13	-39.27	-62.04	3.39	13.16	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 )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3765	-56.33	-13	-43.33	-68.59	2.64	14.90	H
	5640	-50.75	-13	-37.75	-62.61	2.94	14.80	H
	7515	-52.61	-13	-39.61	-62.38	3.39	13.16	H
	3765	-56.32	-13	-43.32	-68.58	2.64	14.90	V
	5640	-51.48	-13	-38.48	-63.34	2.94	14.80	V
	7515	-52.98	-13	-39.98	-62.75	3.39	13.16	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 )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1672	-64.32	-13	-51.32	-71.29	1.58	10.70	H
	2512	-55.13	-13	-42.13	-63.38	2.102	12.50	H
	3344	-59.56	-13	-46.56	-68.45	2.856	13.90	H
	1672	-62.74	-13	-49.74	-69.71	1.58	10.70	V
	2512	-54.34	-13	-41.34	-62.59	2.10	12.50	V
	3344	-59.79	-13	-46.79	-68.68	2.86	13.90	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 )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3765	-56.25	-13	-43.25	-68.51	2.64	14.90	H
	5640	-53.78	-13	-40.78	-65.64	2.94	14.80	H
	7515	-52.88	-13	-39.88	-62.65	3.39	13.16	H
	3765	-55.82	-13	-42.82	-68.08	2.64	14.90	V
	5640	-54.76	-13	-41.76	-66.62	2.94	14.80	V
	7515	-52.89	-13	-39.89	-62.66	3.39	13.16	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 )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3465	-57.31	-13	-44.31	-68.05	2.604	13.34	H
	5190	-54.49	-13	-41.49	-65.00	3.011	13.52	H
	6930	-53.88	-13	-40.88	-64.08	3.271	13.47	H
	3465	-57.42	-13	-44.42	-68.16	2.604	13.34	V
	5190	-54.83	-13	-41.83	-65.34	3.011	13.52	V
	6930	-53.85	-13	-40.85	-64.05	3.271	13.47	V

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