

**Conducted Band Edge****WCDMA Band V (RMC 12.2Kbps)****Lowest Band Edge**

Date: 19.JAN.2022 14:33:01

Highest Band Edge

Date: 19.JAN.2022 14:33:44



WCDMA Band II (RMC 12.2Kbps)

Lowest Band Edge

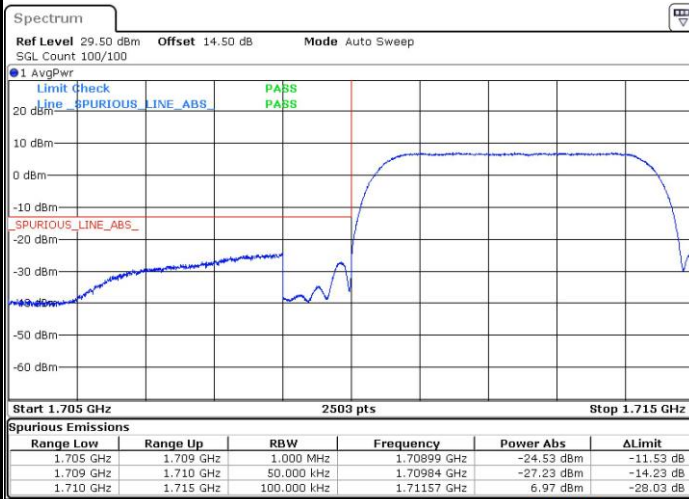


Highest Band Edge

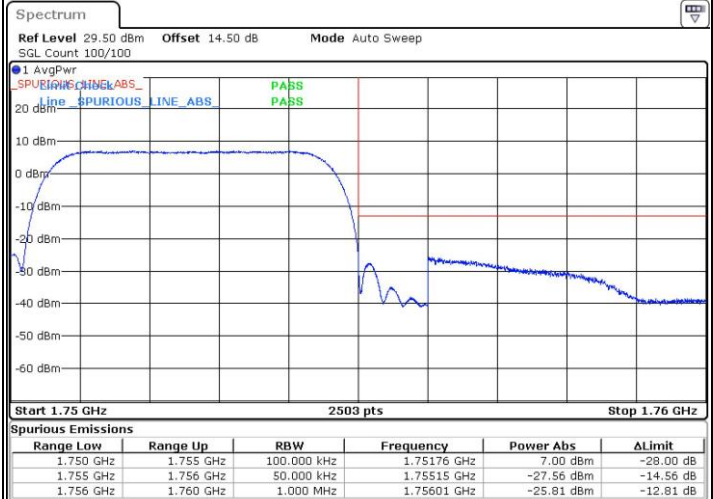


WCDMA Band IV (RMC 12.2Kbps)

Lowest Band Edge



Highest Band Edge

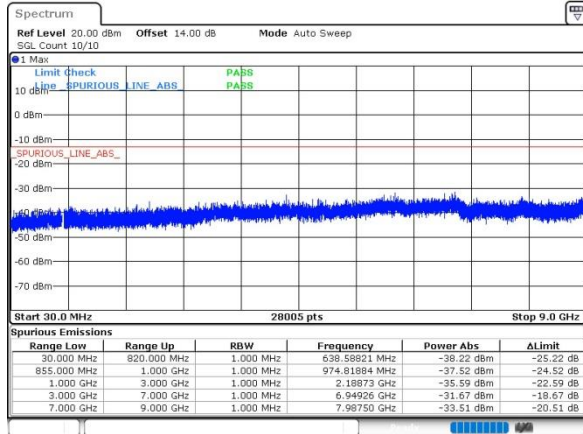




Conducted Spurious Emission

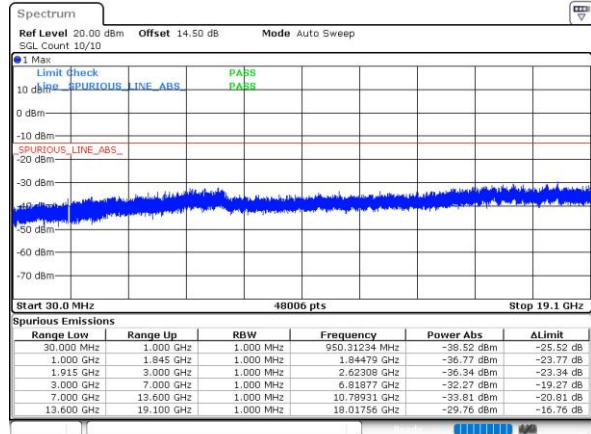
WCDMA Band V (RMC 12.2Kbps)

Lowest Channel

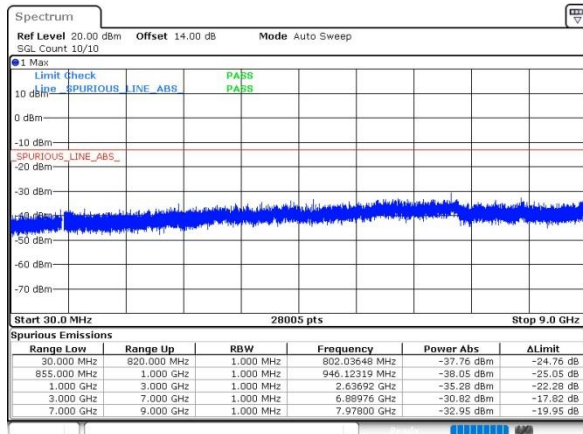


WCDMA Band II (RMC 12.2Kbps)

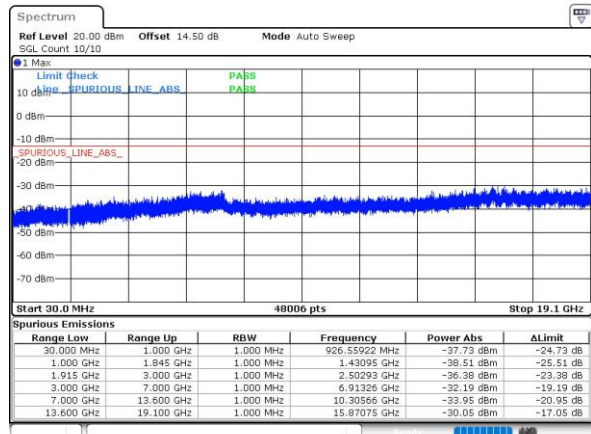
Lowest Channel



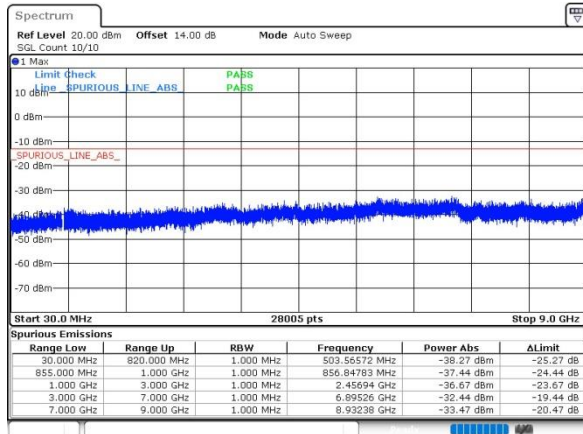
Middle Channel



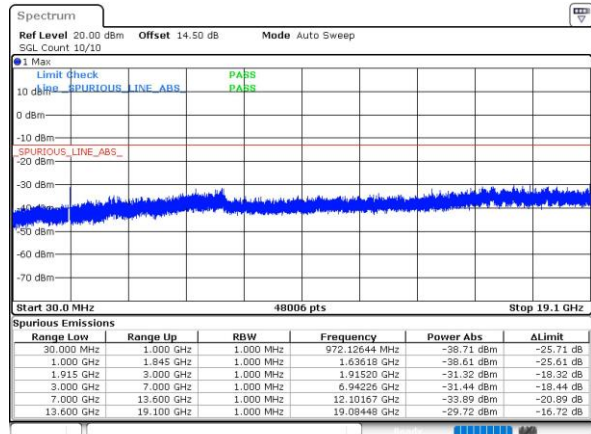
Middle Channel



Highest Channel



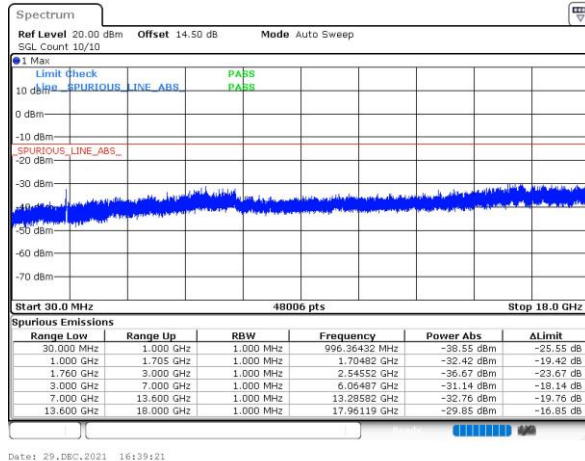
Highest Channel



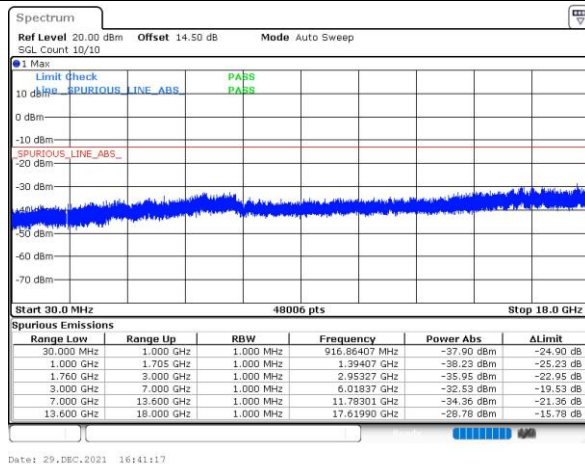


WCDMA Band IV (RMC 12.2Kbps)

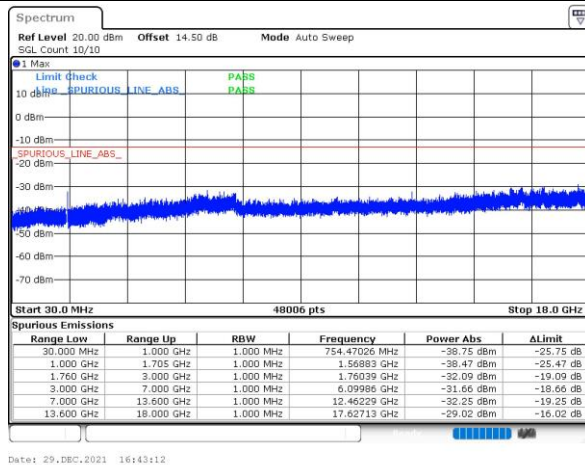
Lowest Channel



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	0.0002	PASS
40	Normal Voltage	0.0004	
30	Normal Voltage	0.0001	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0002	
0	Normal Voltage	0.0005	
-10	Normal Voltage	0.0001	
-20	Normal Voltage	0.0005	
-30	Normal Voltage	0.0004	
20	Maximum Voltage	0.0006	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0006	

Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0002	PASS
40	Normal Voltage	0.0001	
30	Normal Voltage	0.0001	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0002	
0	Normal Voltage	0.0001	
-10	Normal Voltage	0.0004	
-20	Normal Voltage	0.0002	
-30	Normal Voltage	0.0001	
20	Maximum Voltage	0.0003	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0003	



Test Conditions	Middle Channel	WCDMA Band IV (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0002	PASS
40	Normal Voltage	0.0001	
30	Normal Voltage	0.0001	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0002	
0	Normal Voltage	0.0003	
-10	Normal Voltage	0.0005	
-20	Normal Voltage	0.0004	
-30	Normal Voltage	0.0001	
20	Maximum Voltage	0.0002	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0003	

Note:

1. Normal Voltage = 3.87V. ; Battery End Point (BEP) = 3.5 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

Test Engineer :	KuangJia/WenBo XIAO	Temperature :	22~25°C
		Relative Humidity :	48~52%

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	1672.8	-59.49	-13	-46.49	-62.74	4.00	9.40	H
	2509.2	-53.95	-13	-40.95	-57.52	4.88	10.60	H
	3345.6	-54.34	-13	-41.34	-59.27	5.52	12.60	H
	1672.8	-59.49	-13	-46.49	-62.74	4.00	9.40	V
	2509.2	-55.19	-13	-42.19	-58.76	4.88	10.60	V
	3345.6	-56.79	-13	-43.79	-61.72	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)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1673.04	-63.74	-13	-50.74	-66.99	4.00	9.40	H
	2509.56	-58.12	-13	-45.12	-61.69	4.88	10.60	H
	3346.08	-57.75	-13	-44.75	-62.68	5.52	12.60	H
	1673.04	-61.53	-13	-48.53	-64.78	4.00	9.40	V
	2509.56	-57.63	-13	-44.63	-61.20	4.88	10.60	V
	3346.08	-57.29	-13	-44.29	-62.22	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)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3760	-57.54	-13	-44.54	-64.29	5.85	12.60	H
	5640	-56.92	-13	-43.92	-62.72	7.30	13.10	H
	7520	-54.67	-13	-41.67	-57.82	8.35	11.50	H
	3760	-54.92	-13	-41.92	-61.67	5.85	12.60	V
	5640	-56.58	-13	-43.58	-62.38	7.30	13.10	V
	7520	-54.74	-13	-41.74	-57.89	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)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3760	-57.31	-13	-44.31	-64.06	5.85	12.60	H
	5640	-56.70	-13	-43.70	-62.50	7.30	13.10	H
	7520	-54.82	-13	-41.82	-57.97	8.35	11.50	H
	3760	-54.89	-13	-41.89	-61.64	5.85	12.60	V
	5640	-56.78	-13	-43.78	-62.58	7.30	13.10	V
	7520	-54.86	-13	-41.86	-58.01	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)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1672.8	-63.28	-13	-50.28	-66.53	4.00	9.40	H
	2509.2	-57.13	-13	-44.13	-60.70	4.88	10.60	H
	3345.6	-56.30	-13	-43.30	-61.23	5.52	12.60	H
	1672.8	-62.64	-13	-49.64	-65.89	4.00	9.40	V
	2509.2	-57.66	-13	-44.66	-61.23	4.88	10.60	V
	3345.6	-56.59	-13	-43.59	-61.52	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)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3760	-57.50	-13	-44.50	-64.25	5.85	12.60	H
	5640	-56.31	-13	-43.31	-62.11	7.30	13.10	H
	7520	-55.01	-13	-42.01	-58.16	8.35	11.50	H
	3760	-54.60	-13	-41.60	-61.35	5.85	12.60	V
	5640	-56.60	-13	-43.60	-62.40	7.30	13.10	V
	7520	-54.56	-13	-41.56	-57.71	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)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3465.2	-55.79	-13	-42.79	-62.64	5.65	12.50	H
	5197.8	-57.07	-13	-44.07	-62.74	7.13	12.80	H
	6930.4	-54.97	-13	-41.97	-58.37	8.40	11.80	H
	3465.2	-55.71	-13	-42.71	-62.56	5.65	12.50	V
	5197.8	-56.76	-13	-43.76	-62.43	7.13	12.80	V
	6930.4	-54.13	-13	-41.13	-57.53	8.40	11.80	V

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

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