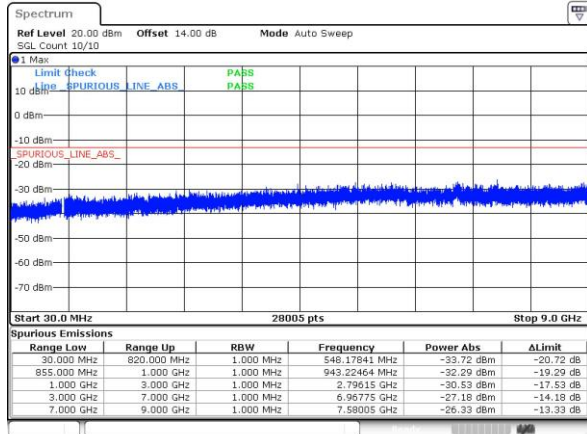




Conducted Spurious Emission

WCDMA Band V (RMC 12.2Kbps)

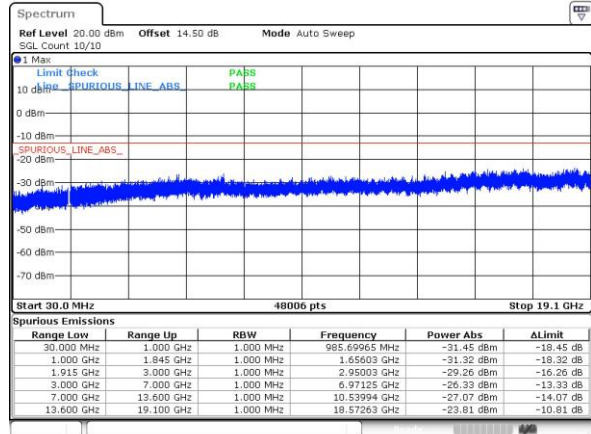
Lowest Channel



Date: 18.NOV.2020 11:39:41

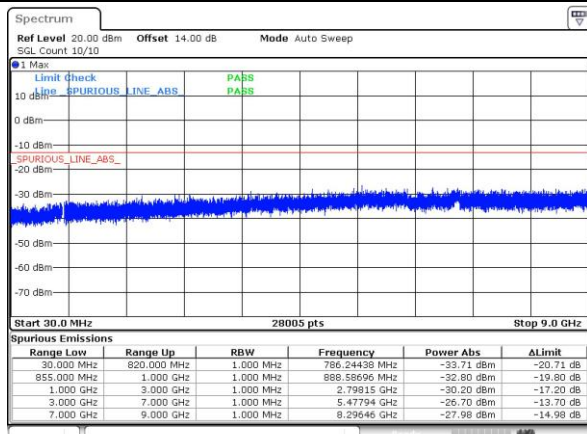
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



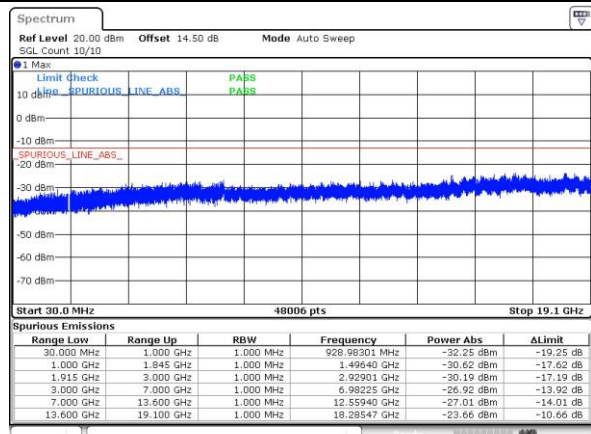
Date: 18.NOV.2020 11:07:43

Middle Channel



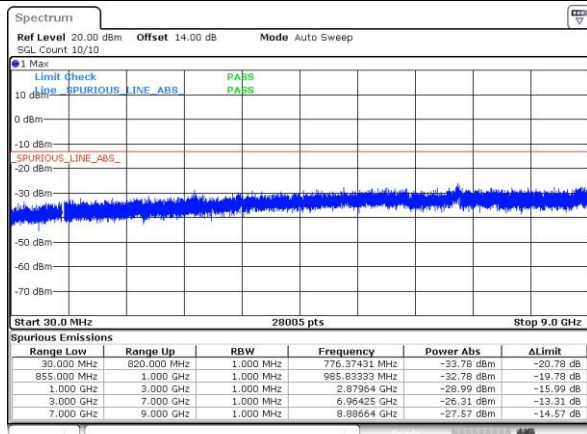
Date: 18.NOV.2020 11:40:05

Middle Channel



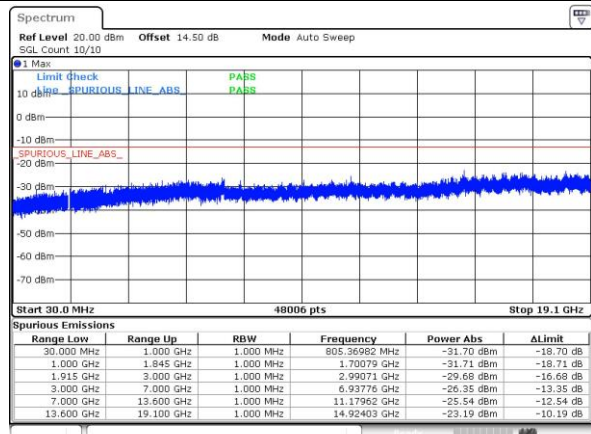
Date: 18.NOV.2020 11:08:19

Highest Channel



Date: 18.NOV.2020 11:40:27

Highest Channel



Date: 18.NOV.2020 11:08:55

**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	0.0021	PASS
40	Normal Voltage	0.0043	
30	Normal Voltage	0.0038	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0049	
0	Normal Voltage	0.0010	
-10	Normal Voltage	0.0017	
-20	Normal Voltage	0.0078	
-30	Normal Voltage	0.0017	
20	Maximum Voltage	0.0031	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0082	

Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0071	PASS
40	Normal Voltage	0.0042	
30	Normal Voltage	0.0031	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0041	
0	Normal Voltage	0.0052	
-10	Normal Voltage	0.0063	
-20	Normal Voltage	0.0026	
-30	Normal Voltage	0.0038	
20	Maximum Voltage	0.0062	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0083	

Note:

1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.6 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.



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	1672.8	-56.30	-13	-43.30	-63.90	-59.55	4.00	9.40	H
	2509.2	-54.56	-13	-41.56	-66.63	-58.13	4.88	10.60	H
	3345.6	-61.28	-13	-48.28	-76.03	-66.21	5.52	12.60	H
	1672.8	-48.47	-13	-35.47	-56.26	-51.72	4.00	9.40	V
	2509.2	-43.39	-13	-30.39	-55.58	-46.96	4.88	10.60	V
	3345.6	-60.41	-13	-47.41	-75.18	-65.34	5.52	12.60	V

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	-60.23	-13	-47.23	-67.83	-63.48	4.00	9.40	H
	2509.2	-57.59	-13	-44.59	-69.66	-61.16	4.88	10.60	H
	3345.6	-61.35	-13	-48.35	-76.10	-66.28	5.52	12.60	H
	1672.8	-58.41	-13	-45.41	-66.20	-61.66	4.00	9.40	V
	2509.2	-62.00	-13	-49.00	-74.19	-65.57	4.88	10.60	V
	3345.6	-61.31	-13	-48.31	-76.08	-66.24	5.52	12.60	V



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	-60.31	-13	-47.31	-76.54	-67.06	5.85	12.60	H
	5640	-58.07	-13	-45.07	-78.38	-63.87	7.30	13.10	H
	7520	-54.11	-13	-41.11	-78.65	-57.26	8.35	11.50	H
	3760	-60.88	-13	-47.88	-76.67	-67.63	5.85	12.60	V
	5640	-59.22	-13	-46.22	-78.32	-65.02	7.30	13.10	V
	7520	-54.01	-13	-41.01	-78.97	-57.16	8.35	11.50	V

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	3760	-60.23	-13	-47.23	-76.46	-66.98	5.85	12.60	H
	5640	-57.89	-13	-44.89	-78.20	-63.69	7.30	13.10	H
	7520	-54.28	-13	-41.28	-78.82	-57.43	8.35	11.50	H
	3760	-60.88	-13	-47.88	-76.67	-67.63	5.85	12.60	V
	5640	-59.03	-13	-46.03	-78.13	-64.83	7.30	13.10	V
	7520	-53.86	-13	-40.86	-78.82	-57.01	8.35	11.50	V



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	-63.92	-13	-50.92	-71.52	-67.17	4.00	9.40	H
	2509.2	-62.02	-13	-49.02	-74.09	-65.59	4.88	10.60	H
	3345.6	-60.78	-13	-47.78	-75.53	-65.71	5.52	12.60	H
	1672.8	-60.55	-13	-47.55	-68.34	-63.80	4.00	9.40	V
	2509.2	-62.25	-13	-49.25	-74.44	-65.82	4.88	10.60	V
	3345.6	-60.67	-13	-47.67	-75.44	-65.60	5.52	12.60	V

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	-57.38	-13	-44.38	-73.61	-64.13	5.85	12.60	H
	5640	-57.84	-13	-44.84	-78.15	-63.64	7.30	13.10	H
	7520	-54.06	-13	-41.06	-78.60	-57.21	8.35	11.50	H
	3760	-58.42	-13	-45.42	-74.21	-65.17	5.85	12.60	V
	5640	-58.90	-13	-45.90	-78	-64.70	7.30	13.10	V
	7520	-53.83	-13	-40.83	-78.79	-56.98	8.35	11.50	V

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