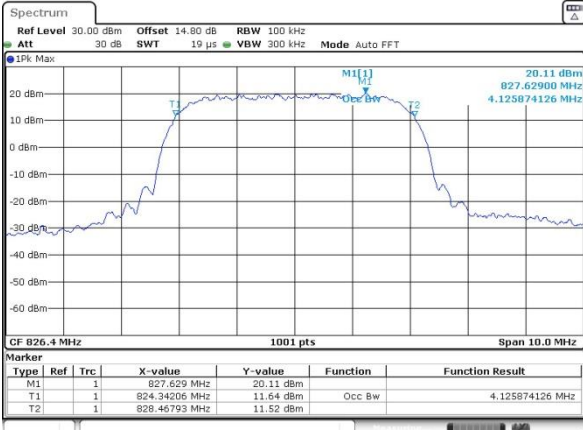




WCDMA Band V (RMC 12.2Kbps)

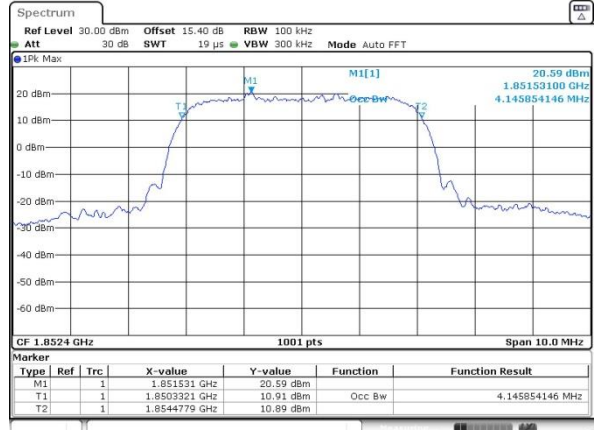
Lowest Channel



Date: 13. DEC. 2021 11:02:54

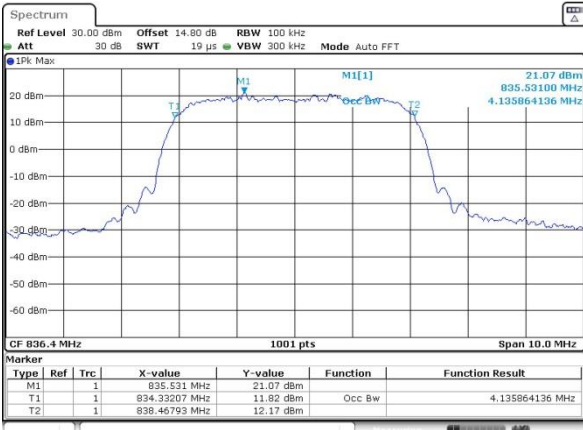
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



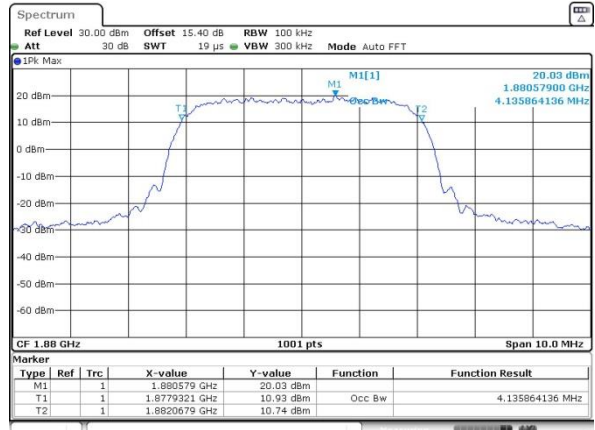
Date: 13. DEC. 2021 11:25:32

Middle Channel



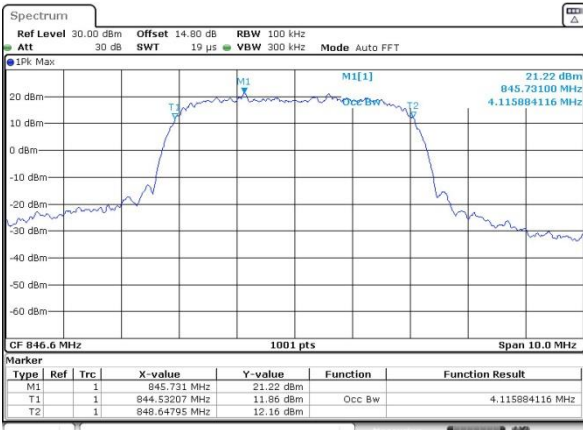
Date: 13. DEC. 2021 11:03:21

Middle Channel



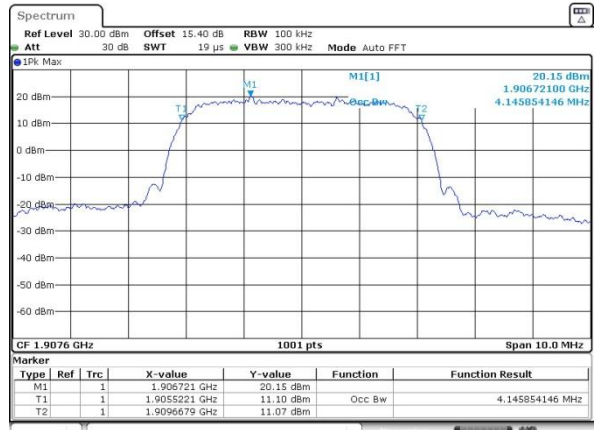
Date: 13. DEC. 2021 11:25:57

Highest Channel



Date: 13. DEC. 2021 11:03:48

Highest Channel

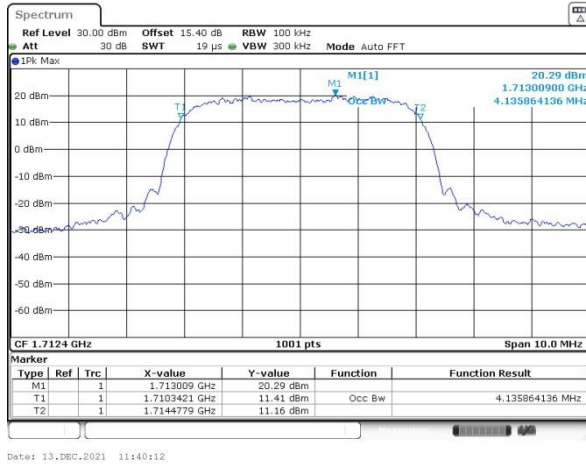


Date: 13. DEC. 2021 11:26:33

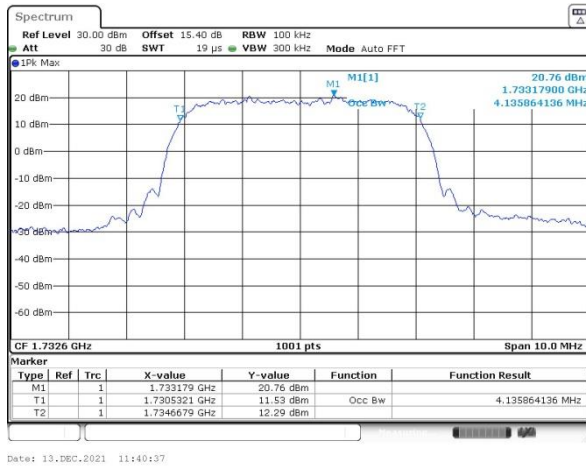


WCDMA Band IV (RMC 12.2Kbps)

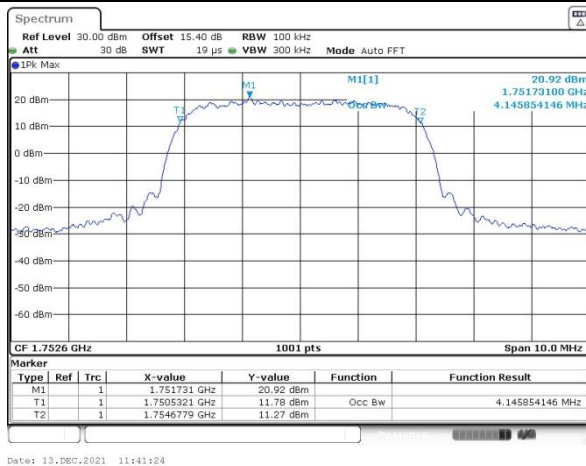
Lowest Channel



Middle Channel

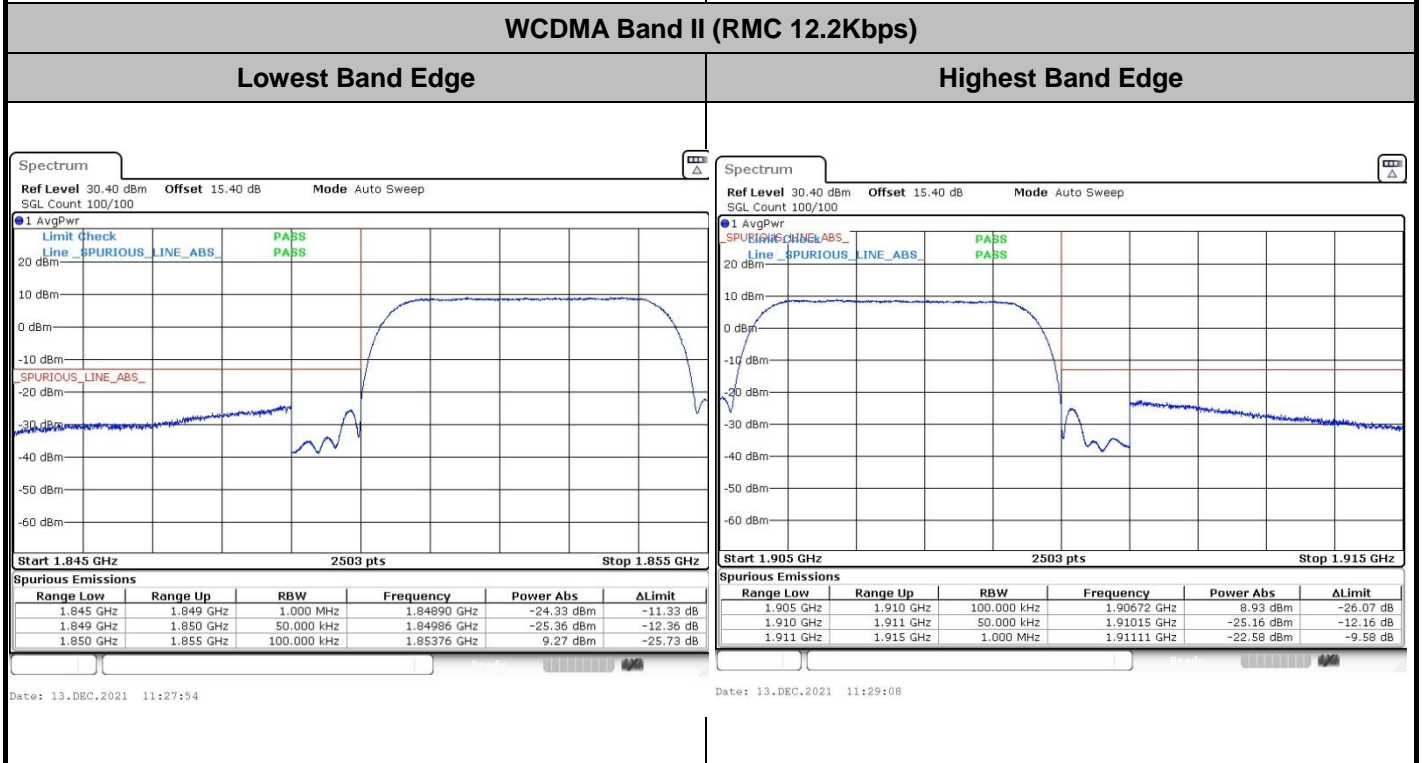
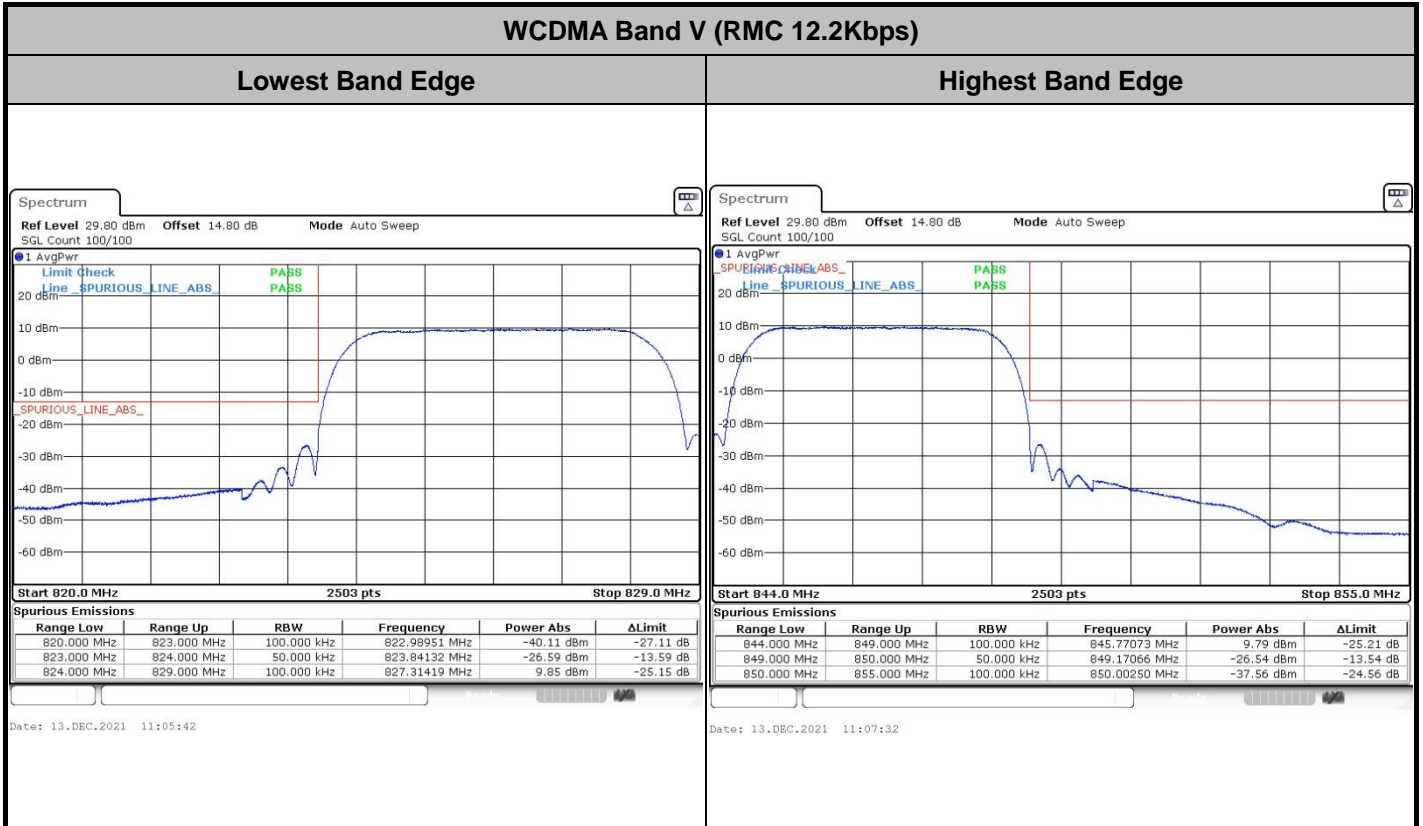


Highest Channel





Conducted Band Edge

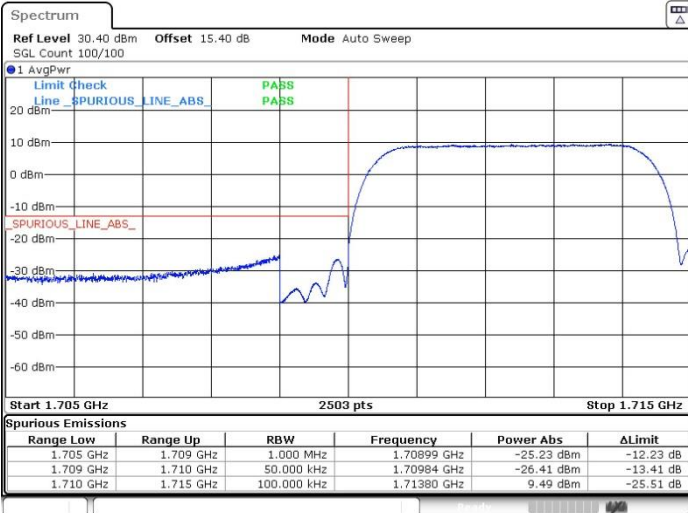




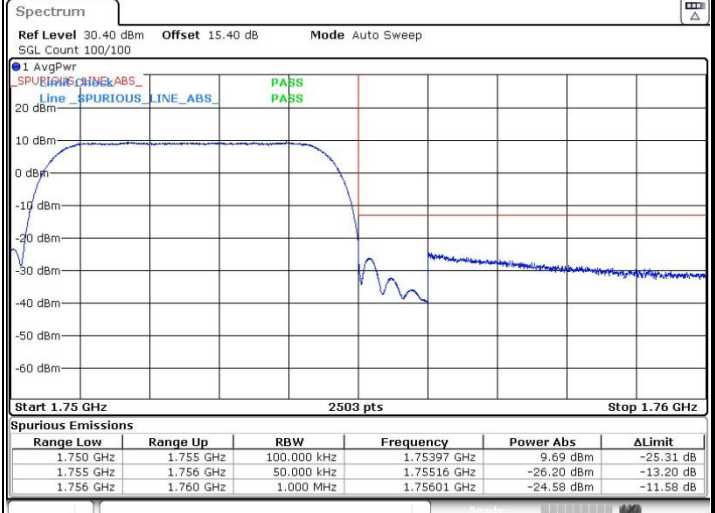
WCDMA Band IV (RMC 12.2Kbps)

Lowest Band Edge

Highest Band Edge



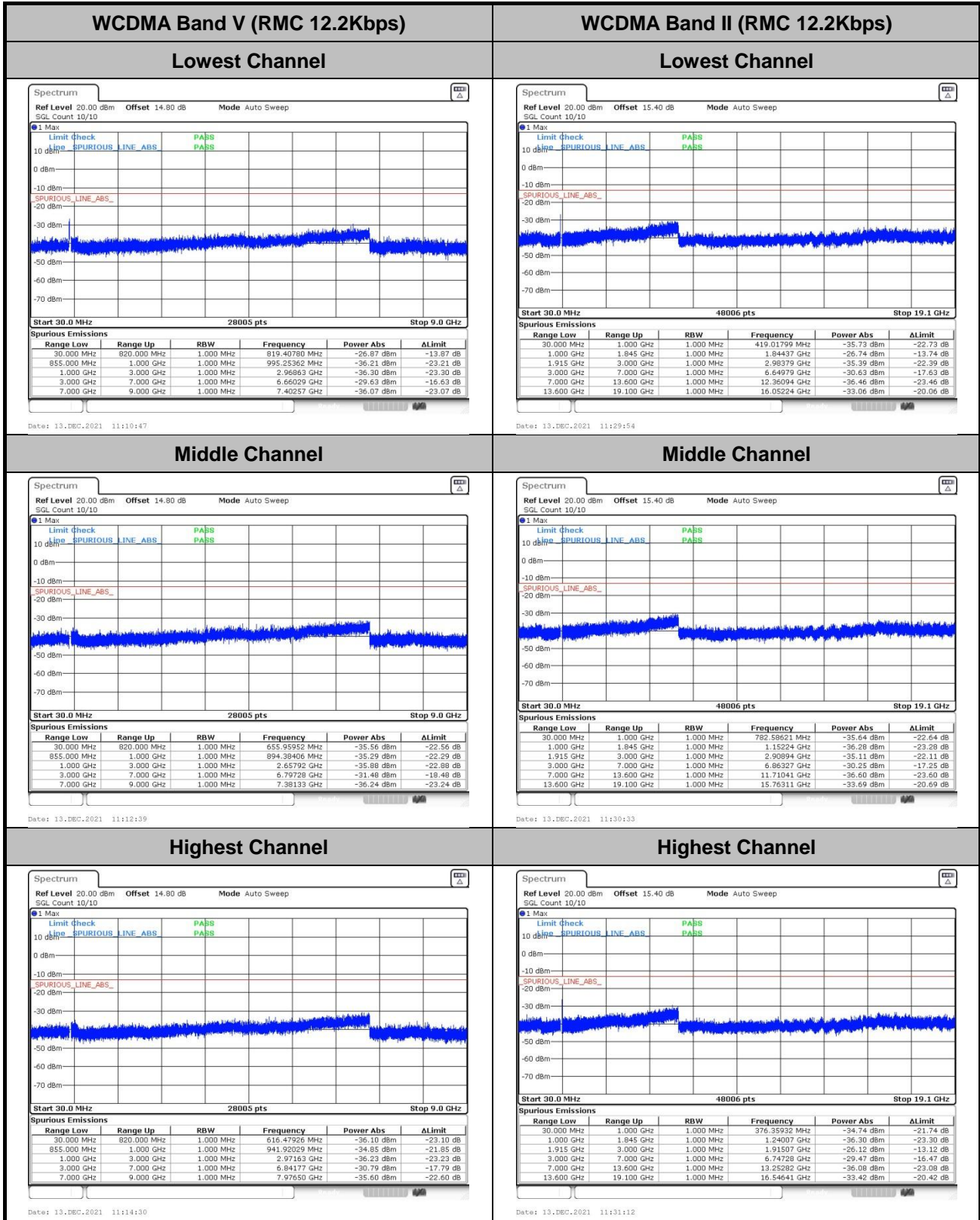
Date: 13.DEC.2021 11:47:33



Date: 13.DEC.2021 11:48:30



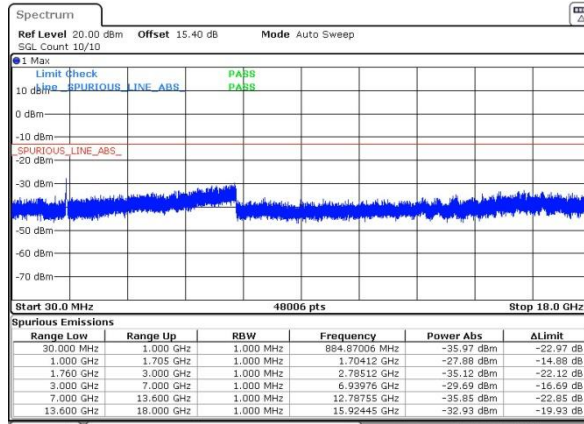
Conducted Spurious Emission





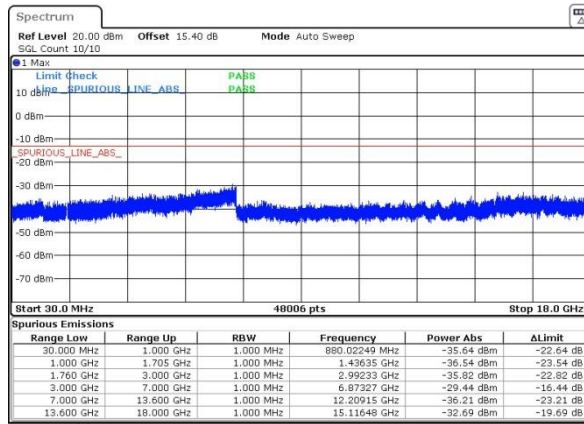
WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



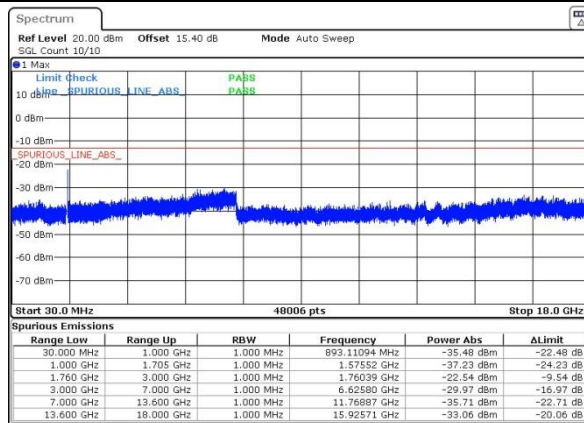
Date: 13.DEC.2021 11:42:32

Middle Channel



Date: 13.DEC.2021 11:43:11

Highest Channel



Date: 13.DEC.2021 11:43:50



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	0.0058	PASS
40	Normal Voltage	0.0377	
30	Normal Voltage	0.0485	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0069	
0	Normal Voltage	0.0344	
-10	Normal Voltage	0.0063	
-20	Normal Voltage	0.0141	
-30	Normal Voltage	0.0325	
20	Maximum Voltage	0.0418	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0063	

Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0069	PASS
40	Normal Voltage	0.0036	
30	Normal Voltage	0.0044	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0055	
0	Normal Voltage	0.0036	
-10	Normal Voltage	0.0047	
-20	Normal Voltage	0.0072	
-30	Normal Voltage	0.0069	
20	Maximum Voltage	0.0062	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0019	



Test Conditions	Middle Channel	WCDMA Band IV (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0048	PASS
40	Normal Voltage	0.0146	
30	Normal Voltage	0.0003	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0017	
0	Normal Voltage	0.0044	
-10	Normal Voltage	0.0172	
-20	Normal Voltage	0.0163	
-30	Normal Voltage	0.0061	
20	Maximum Voltage	0.0028	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0118	

Note:

1. Normal Voltage = 3.87V ; Battery End Point (BEP) =3.6. ; 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	1674	-43.73	-13	-30.73	-50.70	1.58	10.70	H
	2512	-47.66	-13	-34.66	-55.91	2.102	12.50	H
	3342	-56.39	-13	-43.39	-65.28	2.856	13.90	H
	1674	-47.46	-13	-34.46	-54.43	1.58	10.70	V
	2512	-55.99	-13	-42.99	-64.24	2.10	12.50	V
	3348	-59.14	-13	-46.14	-68.03	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	1674	-55.17	-13	-42.17	-62.14	1.58	10.70	H
	2510	-59.18	-13	-46.18	-67.43	2.102	12.50	H
	3348	-60.53	-13	-47.53	-69.42	2.856	13.90	H
	1672	-58.32	-13	-45.32	-65.29	1.58	10.70	V
	2510	-59.26	-13	-46.26	-67.51	2.10	12.50	V
	3348	-60.03	-13	-47.03	-68.92	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	3759	-57.56	-13	-44.56	-69.82	2.641	14.90	H
	5640	-54.25	-13	-41.25	-66.11	2.94	14.80	H
	7524	-53.17	-13	-40.17	-62.94	3.39	13.16	H
	3760	-57.26	-13	-44.26	-69.52	2.64	14.90	V
	5640	-54.31	-13	-41.31	-66.17	2.94	14.80	V
	7524	-52.85	-13	-39.85	-62.62	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	3759	-57.37	-13	-44.37	-69.63	2.641	14.90	H
	5640	-54.35	-13	-41.35	-66.21	2.94	14.80	H
	7524	-53.29	-13	-40.29	-63.06	3.39	13.16	H
	3760	-57.52	-13	-44.52	-69.78	2.64	14.90	V
	5640	-54.25	-13	-41.25	-66.11	2.94	14.80	V
	7524	-53.21	-13	-40.21	-62.98	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	1674	-43.73	-13	-30.73	-50.70	1.58	10.70	H
	2512	-47.66	-13	-34.66	-55.91	2.102	12.50	H
	3342	-56.39	-13	-43.39	-65.28	2.856	13.90	H
	1674	-47.46	-13	-34.46	-54.43	1.58	10.70	V
	2512	-55.99	-13	-42.99	-64.24	2.10	12.50	V
	3348	-59.14	-13	-46.14	-68.03	2.86	13.90	V

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	3759	-56.85	-13	-43.85	-69.11	2.64	14.90	H
	5640	-54.06	-13	-41.06	-65.92	2.94	14.80	H
	7524	-53.07	-13	-40.07	-62.84	3.39	13.16	H
	3760	-56.96	-13	-43.96	-69.22	2.64	14.90	V
	5640	-54.16	-13	-41.16	-66.02	2.94	14.80	V
	7524	-53.04	-13	-40.04	-62.81	3.39	13.16	V



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	3468	-44.31	-13	-31.31	-55.05	2.604	13.34	H
	5196	-47.97	-13	-34.97	-58.48	3.011	13.52	H
	6936	-53.83	-13	-40.83	-64.03	3.271	13.47	H
	3468	-42.26	-13	-29.26	-53.00	2.604	13.34	V
	5199	-51.29	-13	-38.29	-61.80	3.011	13.52	V
	6936	-53.15	-13	-40.15	-63.35	3.271	13.47	V

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