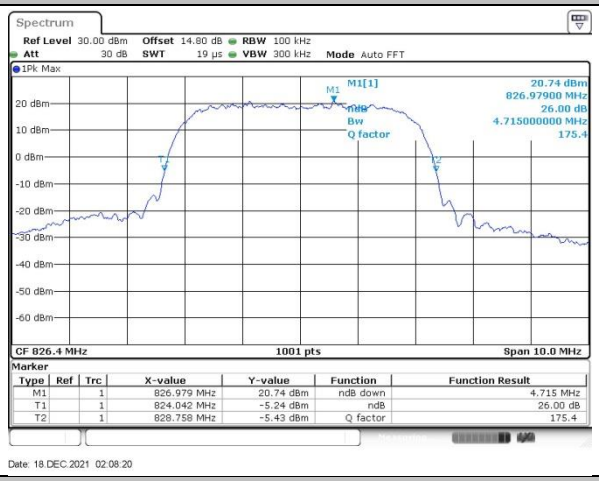
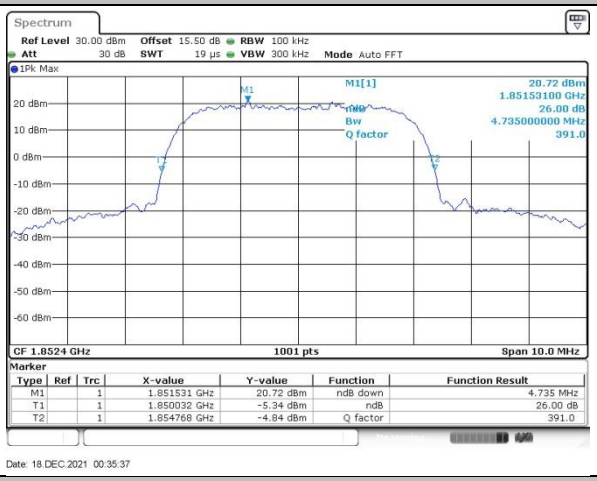
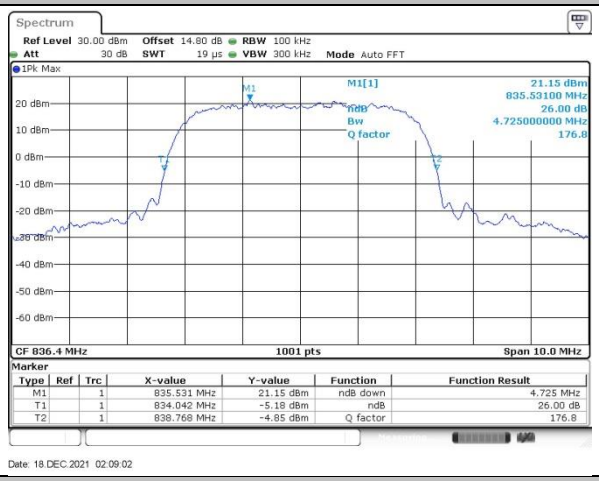
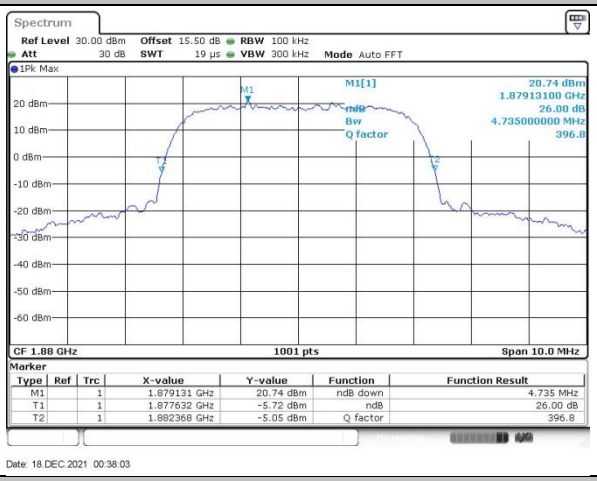
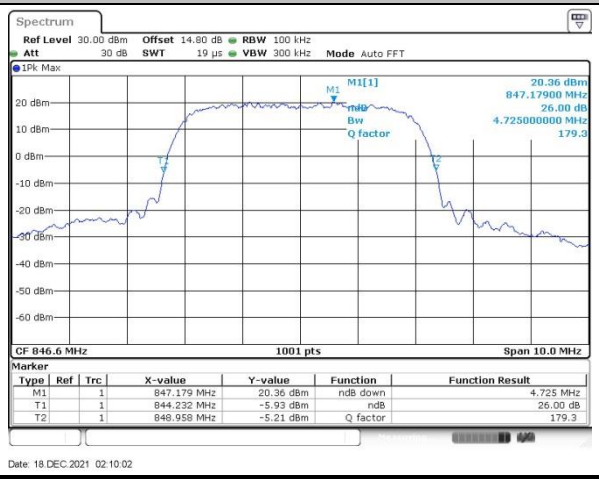
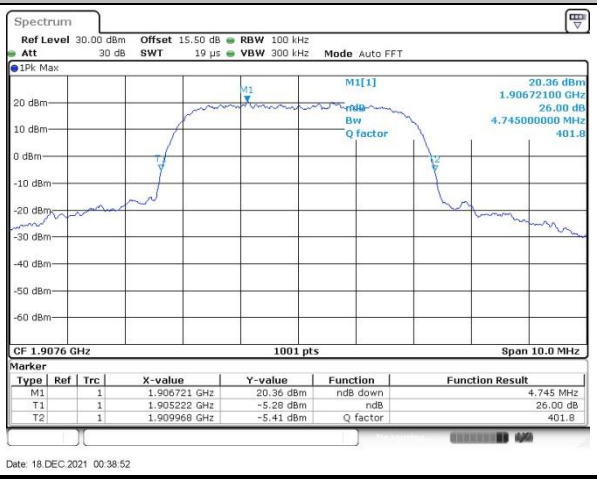
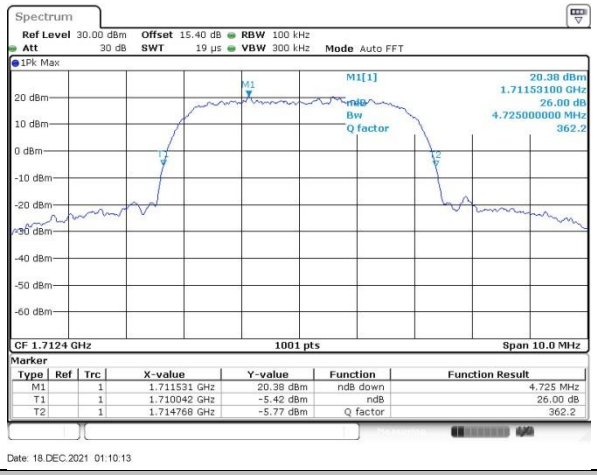
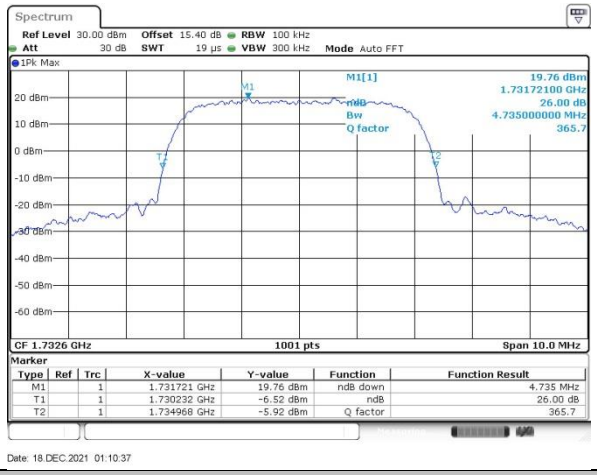
WCDMA Band V (RMC 12.2Kbps)	WCDMA Band II (RMC 12.2Kbps)
Lowest Channel	**Lowest Channel**
	
Middle Channel	**Middle Channel**
	
Highest Channel	**Highest Channel**
	

WCDMA Band IV (RMC 12.2Kbps)

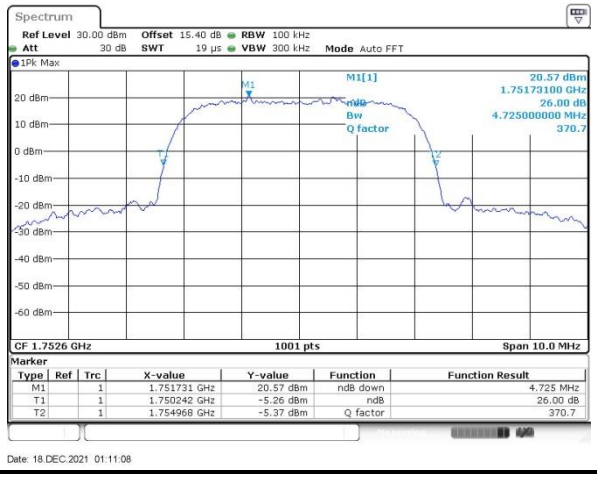
Lowest Channel



Middle Channel

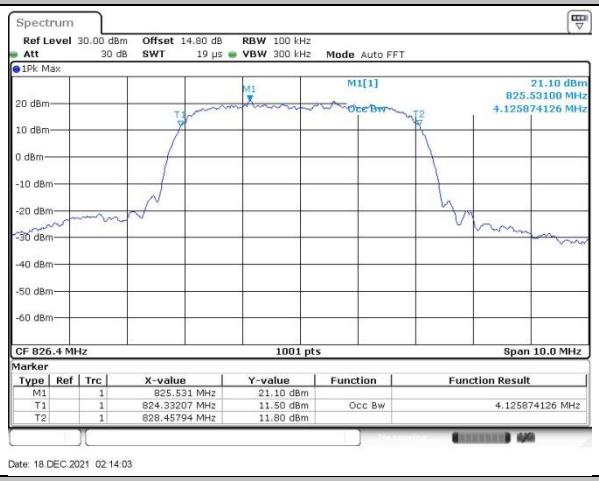
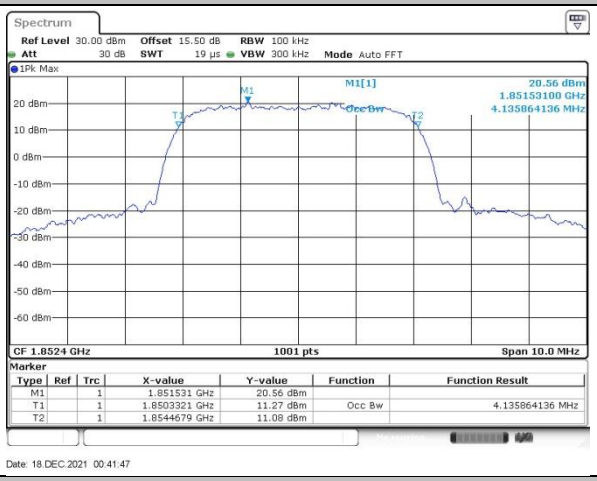
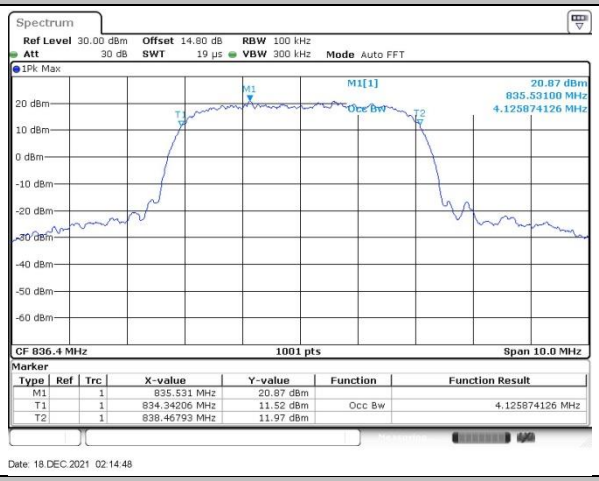
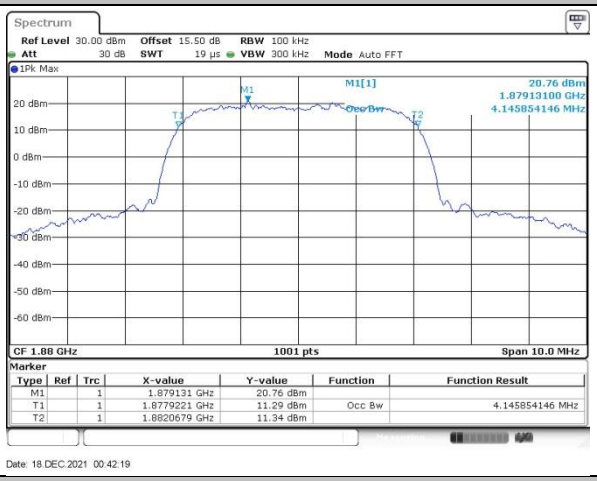
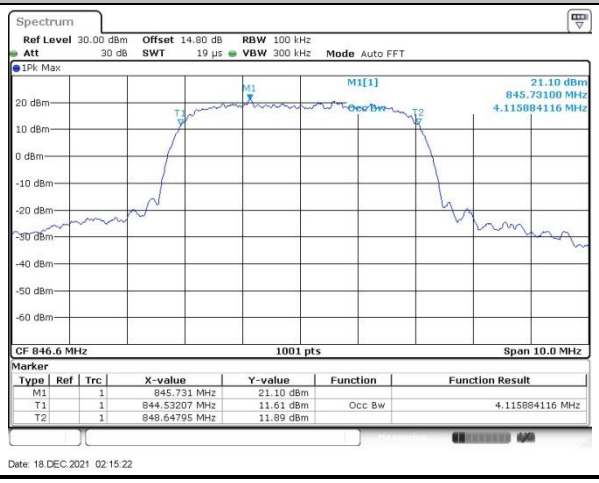
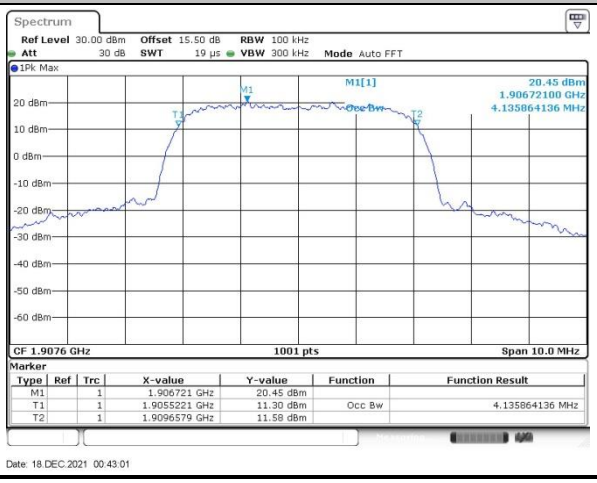


Highest Channel



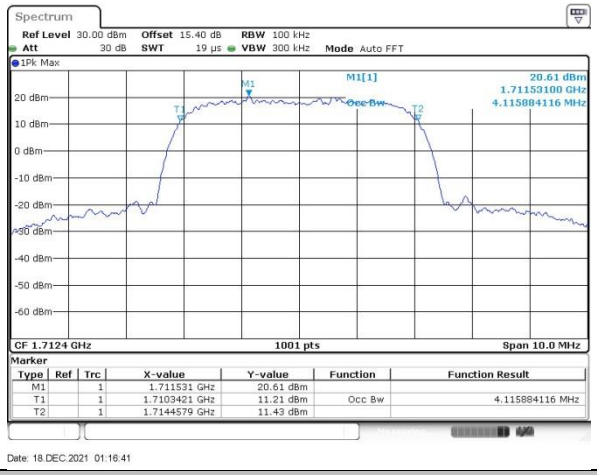
Occupied Bandwidth

Mode	WCDMA Band V	WCDMA Band II	WCDMA Band IV
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.13	4.14	4.12
Middle CH	4.13	4.15	4.14
Highest CH	4.12	4.14	4.13

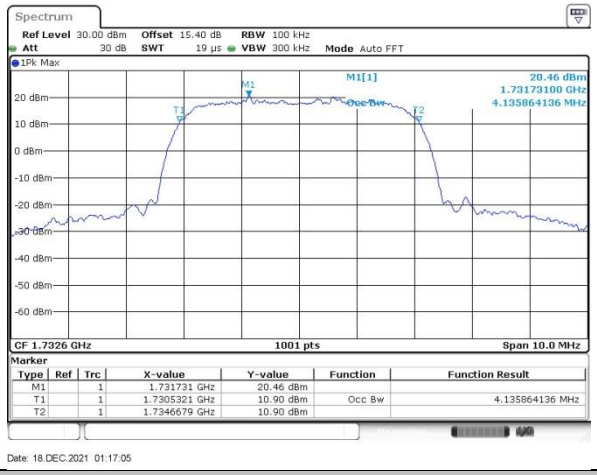
WCDMA Band V (RMC 12.2Kbps)	WCDMA Band II (RMC 12.2Kbps)
Lowest Channel	**Lowest Channel**
	
Middle Channel	**Middle Channel**
	
Highest Channel	**Highest Channel**
	

WCDMA Band IV (RMC 12.2Kbps)

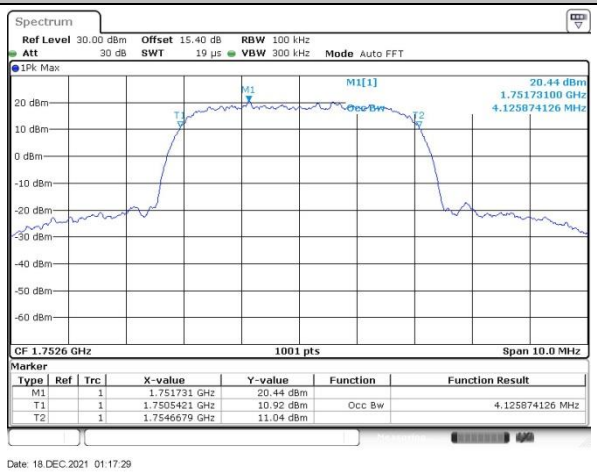
Lowest Channel



Middle Channel



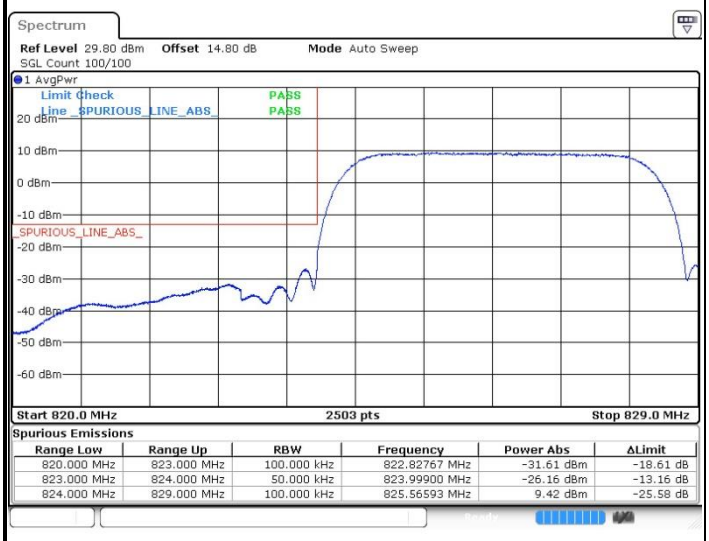
Highest Channel



Conducted Band Edge

WCDMA Band V (RMC 12.2Kbps)

Lowest Band Edge



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
820.000 MHz	823.000 MHz	100.000 kHz	822.82767 MHz	-31.61 dBm	-18.61 dB
823.000 MHz	824.000 MHz	50.000 kHz	823.99900 MHz	-26.16 dBm	-13.16 dB
824.000 MHz	829.000 MHz	100.000 kHz	825.56593 MHz	9.42 dBm	-25.58 dB

Date: 18.DEC.2021 02:16:30

Highest Band Edge

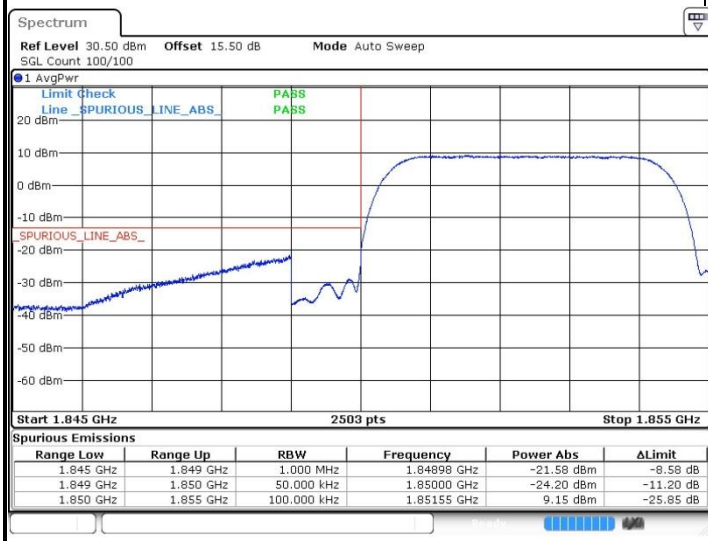
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
844.000 MHz	849.000 MHz	100.000 kHz	845.75574 MHz	9.49 dBm	-25.51 dB
849.000 MHz	850.000 MHz	50.000 kHz	849.00100 MHz	-26.26 dBm	-13.26 dB
850.000 MHz	855.000 MHz	100.000 kHz	850.15734 MHz	-35.74 dBm	-22.74 dB

Date: 18.DEC.2021 02:17:17

WCDMA Band II (RMC 12.2Kbps)

Lowest Band Edge

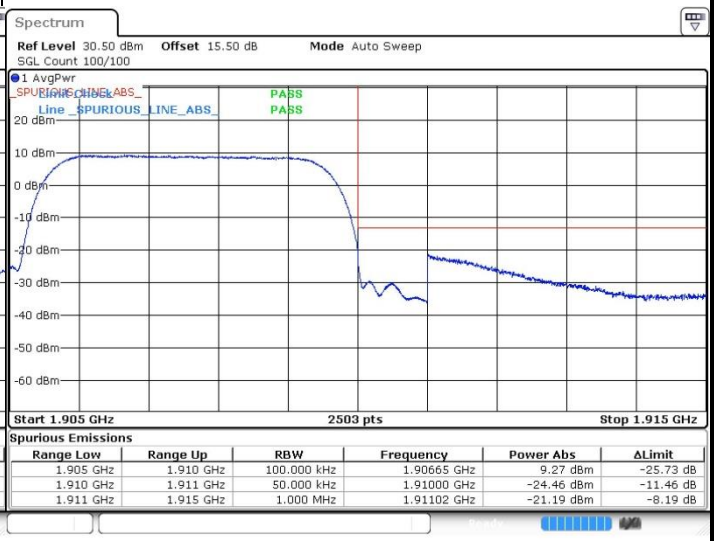


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.845 GHz	1.849 GHz	1.000 MHz	1.84898 GHz	-21.58 dBm	-8.58 dB
1.849 GHz	1.850 GHz	50.000 kHz	1.85000 GHz	-24.20 dBm	-11.20 dB
1.850 GHz	1.855 GHz	100.000 kHz	1.85155 GHz	9.15 dBm	-25.85 dB

Date: 18.DEC.2021 00:46:37

Highest Band Edge

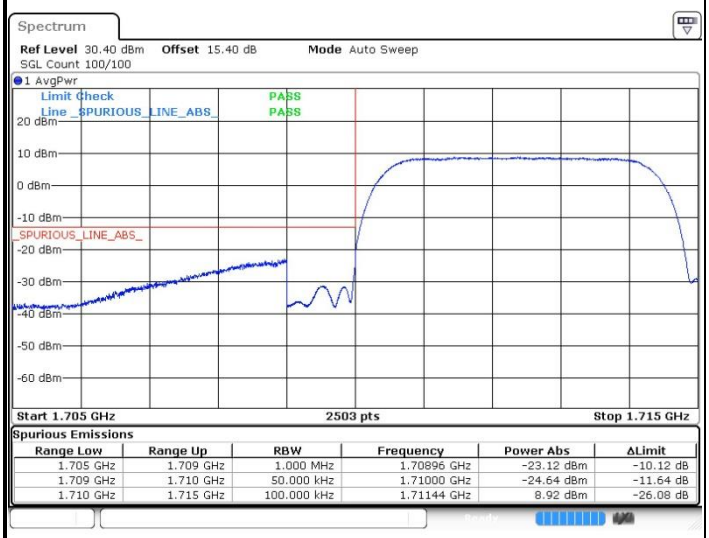


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.905 GHz	1.910 GHz	100.000 kHz	1.90665 GHz	9.27 dBm	-25.73 dB
1.910 GHz	1.911 GHz	50.000 kHz	1.91000 GHz	-24.46 dBm	-11.46 dB
1.911 GHz	1.915 GHz	1.000 MHz	1.91102 GHz	-21.19 dBm	-8.19 dB

Date: 18.DEC.2021 00:47:30

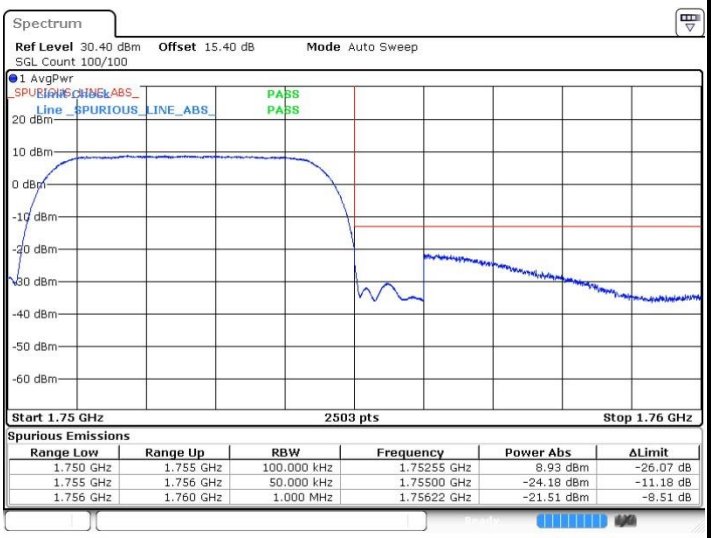
WCDMA Band IV (RMC 12.2Kbps)	
Lowest Band Edge	**Highest Band Edge**



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.705 GHz	1.709 GHz	1.000 MHz	1.70896 GHz	-23.12 dBm	-10.12 dB
1.709 GHz	1.710 GHz	50.000 kHz	1.71000 GHz	-24.64 dBm	-11.64 dB
1.710 GHz	1.715 GHz	100.000 kHz	1.71144 GHz	8.92 dBm	-26.08 dB

Date: 18.DEC.2021 01:18:37



Spurious Emissions

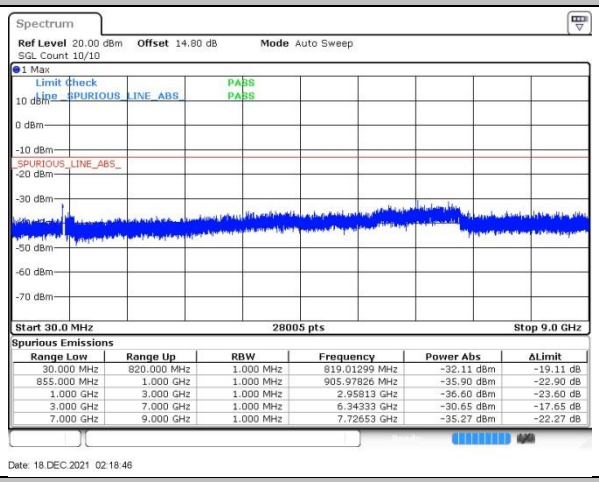
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.750 GHz	1.755 GHz	100.000 kHz	1.75255 GHz	8.93 dBm	-26.07 dB
1.755 GHz	1.756 GHz	50.000 kHz	1.75500 GHz	-24.18 dBm	-11.18 dB
1.756 GHz	1.760 GHz	1.000 MHz	1.75622 GHz	-21.51 dBm	-8.51 dB

Date: 18.DEC.2021 01:21:44

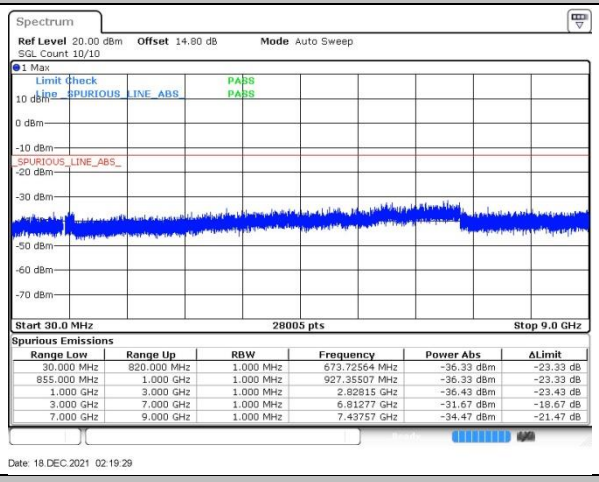
Conducted Spurious Emission

WCDMA Band V (RMC 12.2Kbps)

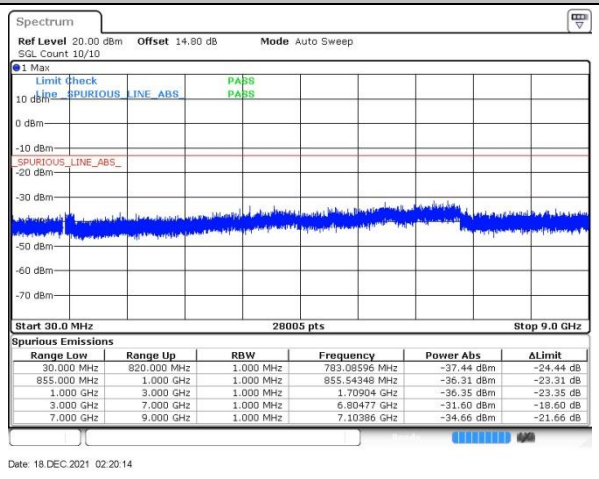
Lowest Channel



Middle Channel

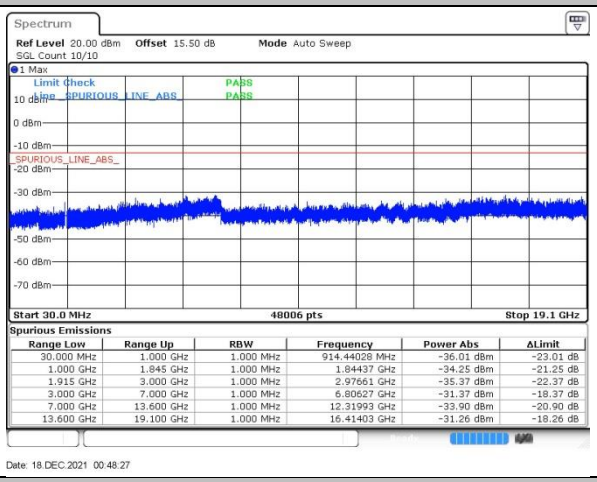


Highest Channel

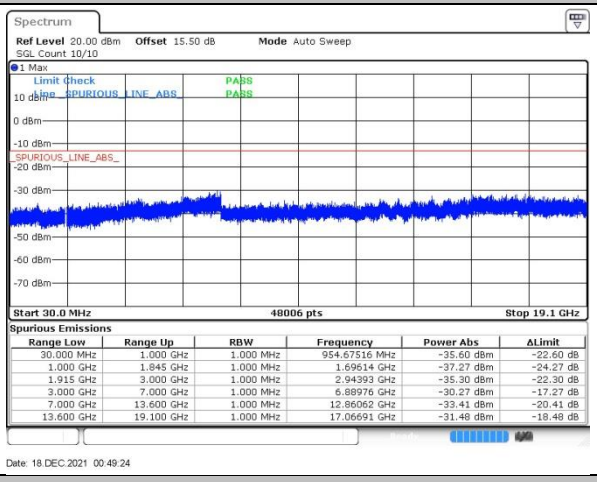


WCDMA Band II (RMC 12.2Kbps)

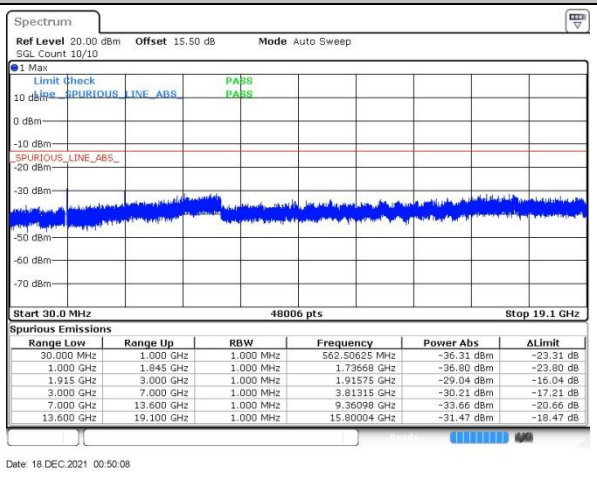
Lowest Channel



Middle Channel

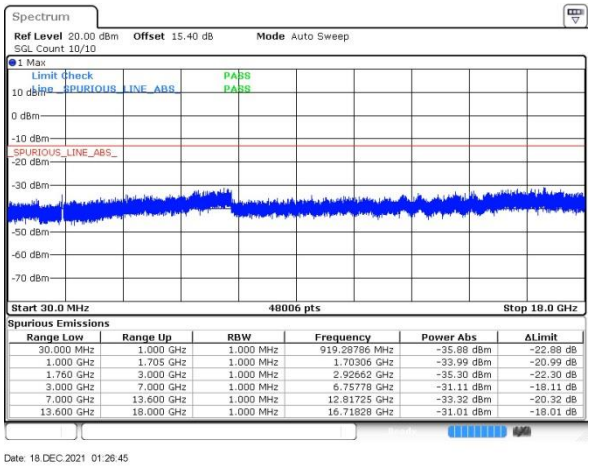


Highest Channel

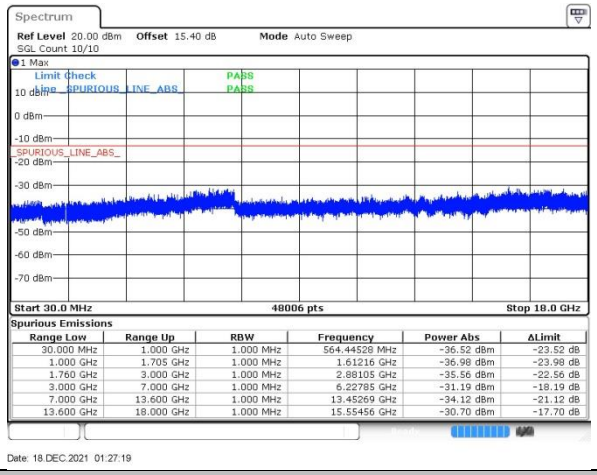


WCDMA Band IV (RMC 12.2Kbps)

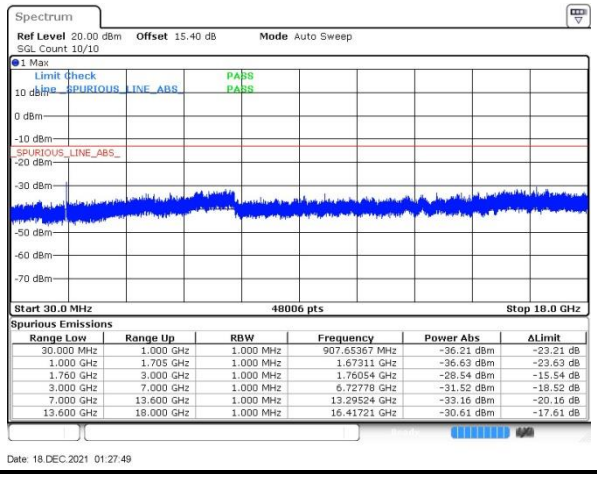
Lowest Channel



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	0.0066	PASS
40	Normal Voltage	0.0365	
30	Normal Voltage	0.0342	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0056	
0	Normal Voltage	0.0375	
-10	Normal Voltage	0.0059	
-20	Normal Voltage	0.0165	
-30	Normal Voltage	0.0298	
20	Maximum Voltage	0.0455	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0071	

Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0211	PASS
40	Normal Voltage	0.0135	
30	Normal Voltage	0.0141	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0125	
0	Normal Voltage	0.0173	
-10	Normal Voltage	0.0261	
-20	Normal Voltage	0.0078	
-30	Normal Voltage	0.0149	
20	Maximum Voltage	0.0142	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0033	

Test Conditions	Middle Channel	WCDMA Band IV (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0051	PASS
40	Normal Voltage	0.0153	
30	Normal Voltage	0.0008	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0019	
0	Normal Voltage	0.0062	
-10	Normal Voltage	0.0126	
-20	Normal Voltage	0.0139	
-30	Normal Voltage	0.0072	
20	Maximum Voltage	0.0035	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0152	

Note:

1. Normal Voltage = 3.87V ; Battery End Point (BEP) =3.6V. ; Maximum Voltage =4.2V

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℃
		Relative Humidity :	41~42%

Note: Pre-scanned harmonic for the different antenna, we choose the worst antenna mode to test.

GSM850 (GSM) for Ant 1								
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	-60.64	-13	-47.64	-67.61	1.58	10.70	H
	2508	-30.85	-13	-17.85	-39.10	2.102	12.50	H
	3348	-59.61	-13	-46.61	-68.50	2.856	13.90	H
	1672	-58.49	-13	-45.49	-65.46	1.58	10.70	V
	2508	-29.86	-13	-16.86	-38.11	2.10	12.50	V
	3348	-59.71	-13	-46.71	-68.60	2.86	13.90	V

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

GSM850 (EDGE class 8) for Ant 1								
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	-59.94	-13	-46.94	-66.91	1.58	10.70	H
	2508	-35.10	-13	-22.10	-43.35	2.102	12.50	H
	3348	-59.59	-13	-46.59	-68.48	2.856	13.90	H
	1672	-57.42	-13	-44.42	-64.39	1.58	10.70	V
	2510	-32.64	-13	-19.64	-40.89	2.10	12.50	V
	3348	-59.12	-13	-46.12	-68.01	2.86	13.90	V

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

GSM1900 (GSM) for Ant 2								
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	-53.70	-13	-40.70	-65.96	2.64	14.90	H
	5640	-42.77	-13	-29.77	-54.63	2.94	14.80	H
	7524	-55.18	-13	-42.18	-64.95	3.39	13.16	H
	3759	-56.68	-13	-43.68	-68.94	2.64	14.90	V
	5640	-43.34	-13	-30.34	-55.20	2.94	14.80	V
	7524	-55.52	-13	-42.52	-65.29	3.39	13.16	V

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

GSM1900 (EDGE class 8) for Ant 2								
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	-57.15	-13	-44.15	-69.41	2.641	14.90	H
	5640	-54.36	-13	-41.36	-66.22	2.94	14.80	H
	7524	-55.66	-13	-42.66	-65.43	3.39	13.16	H
	3759	-57.46	-13	-44.46	-69.72	2.64	14.90	V
	5640	-57.39	-13	-44.39	-69.25	2.94	14.80	V
	7524	-55.35	-13	-42.35	-65.12	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) for Ant 1								
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	-58.59	-13	-45.59	-65.56	1.58	10.70	H
	2510	-47.31	-13	-34.31	-55.56	2.102	12.50	H
	3348	-59.65	-13	-46.65	-68.54	2.856	13.90	H
	1672	-52.22	-13	-39.22	-59.19	1.58	10.70	V
	2510	-43.32	-13	-30.32	-51.57	2.10	12.50	V
	3348	-59.55	-13	-46.55	-68.44	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) for Ant 2								
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	-52.18	-13	-39.18	-64.44	2.64	14.90	H
	5640	-57.72	-13	-44.72	-69.58	2.94	14.80	H
	7524	-55.16	-13	-42.16	-64.93	3.39	13.16	H
	3759	-50.76	-13	-37.76	-63.02	2.64	14.90	V
	5640	-58.64	-13	-45.64	-70.50	2.94	14.80	V
	7524	-55.08	-13	-42.08	-64.85	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) for Ant 2								
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	-57.09	-13	-44.09	-67.83	2.604	13.34	H
	5196	-55.55	-13	-42.55	-66.06	3.011	13.52	H
	6936	-56.77	-13	-43.77	-66.97	3.271	13.47	H
	3465	-57.78	-13	-44.78	-68.52	2.604	13.34	V
	5196	-57.98	-13	-44.98	-68.49	3.011	13.52	V
	6936	-56.59	-13	-43.59	-66.79	3.271	13.47	V

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