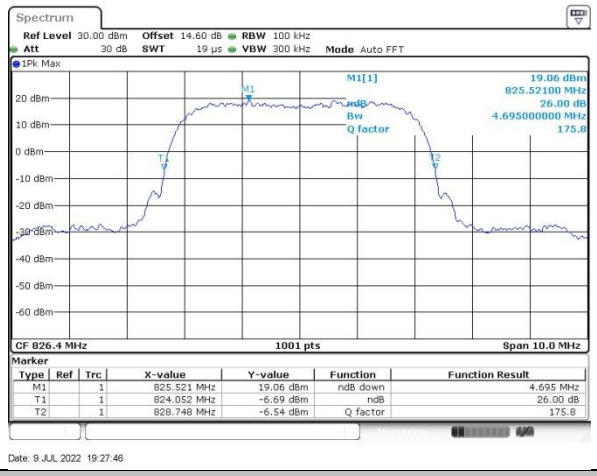
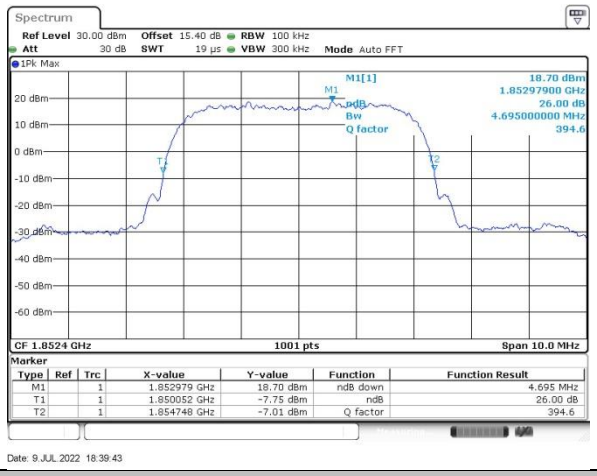
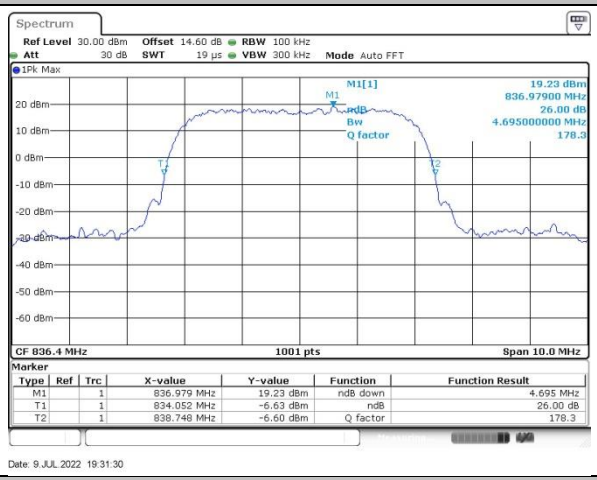
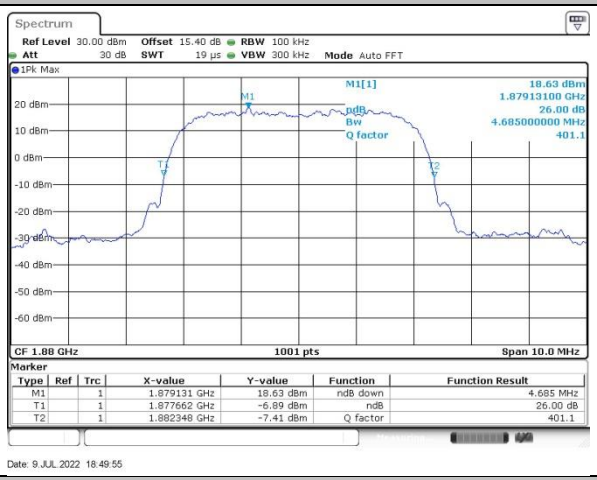
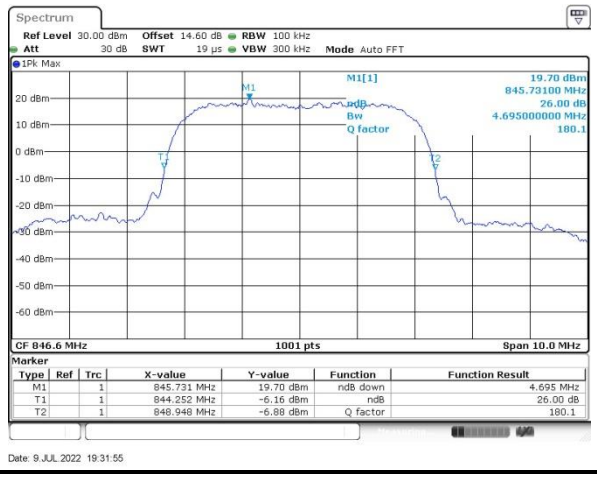
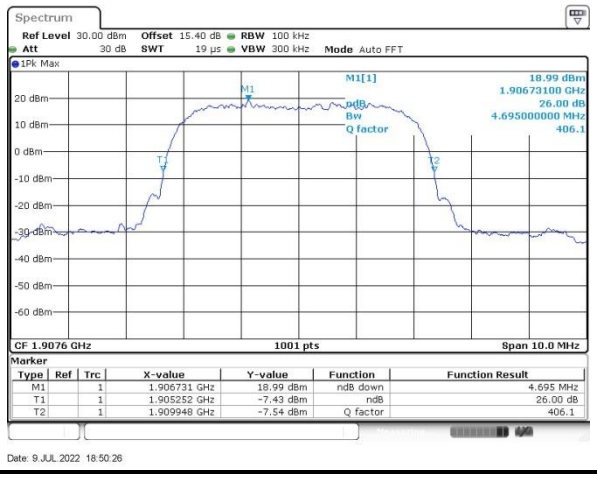
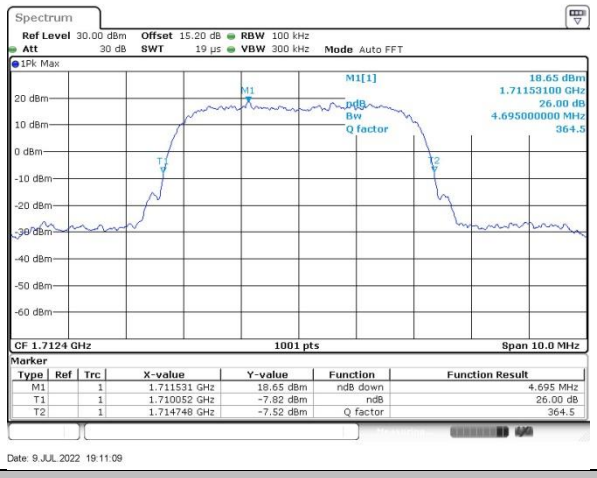
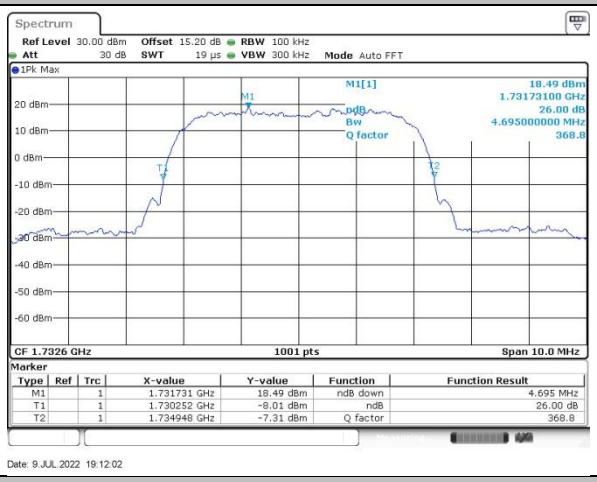
WCDMA Band V (RMC 12.2Kbps)	WCDMA Band II (RMC 12.2Kbps)
Lowest Channel	**Lowest Channel**
	
Middle Channl	**Middle Channel**
	
Highest Channel	**Highest Channel**
	

WCDMA Band IV (RMC 12.2Kbps)

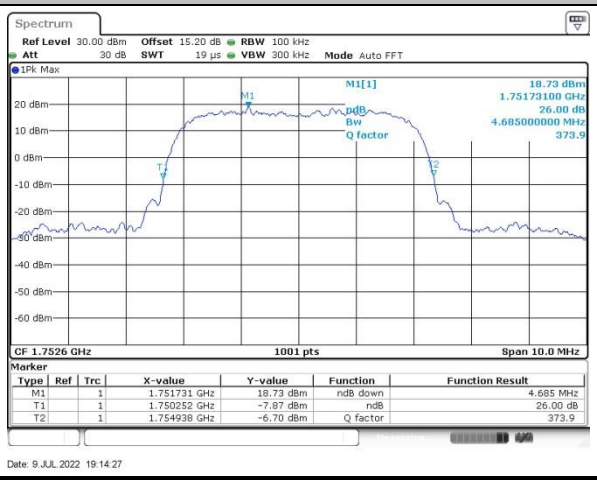
Lowest Channel



Middle Channel

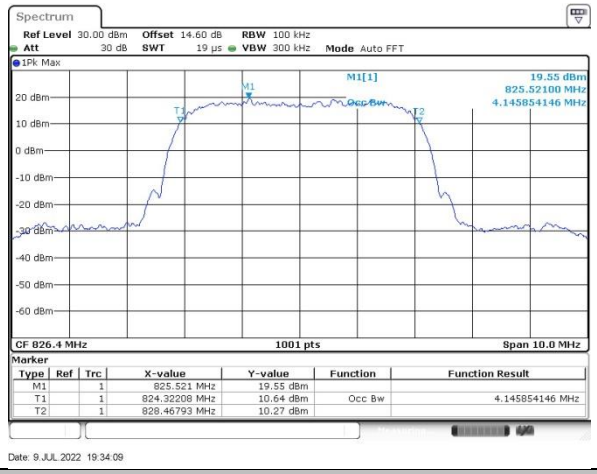
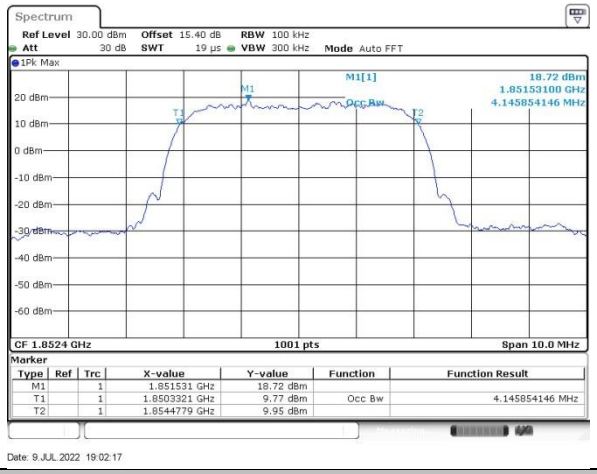
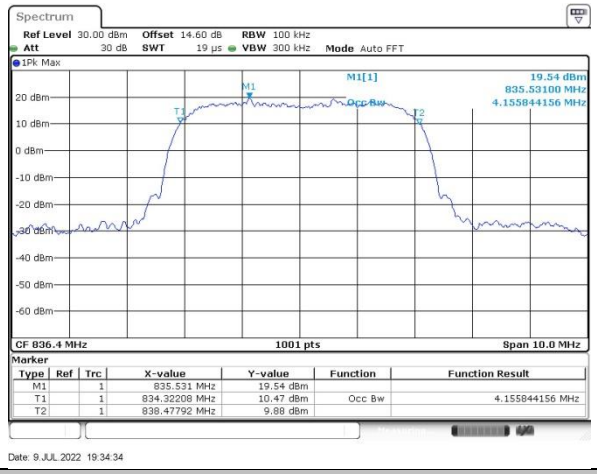
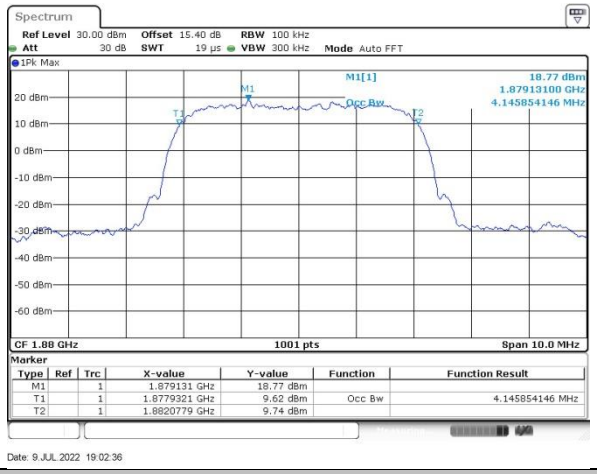
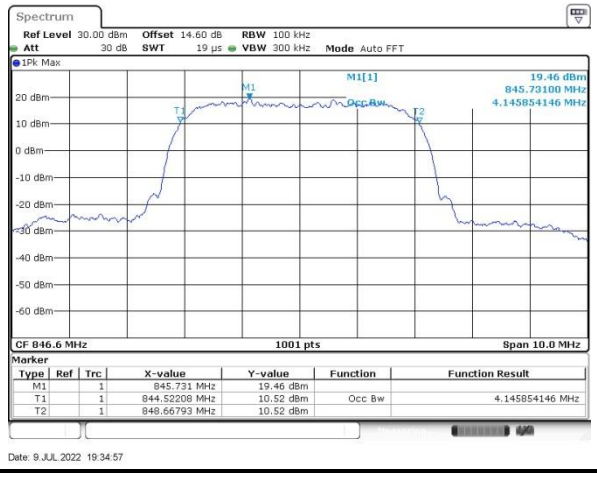
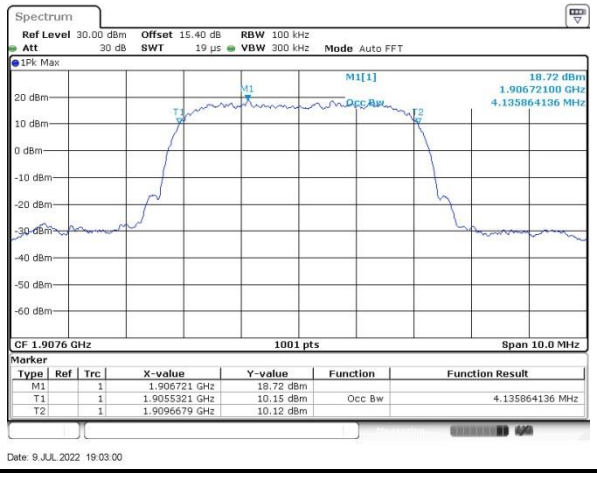


Highest Channel



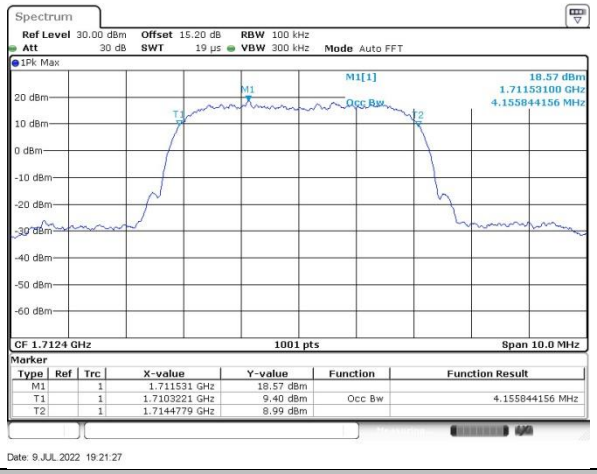
Occupied Bandwidth

Mode	WCDMA Band V	WCDMA Band II	WCDMA Band IV
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.15	4.15	4.16
Middle CH	4.16	4.15	4.15
Highest CH	4.15	4.14	4.15

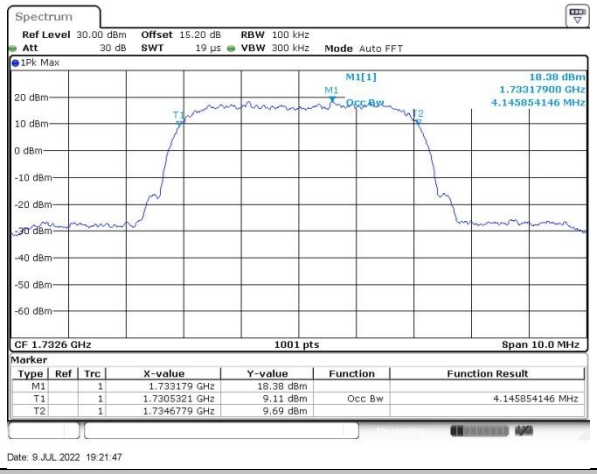
WCDMA Band V (RMC 12.2Kbps)	WCDMA Band II (RMC 12.2Kbps)
Lowest Channel	**Lowest Channel**
	
Middle Channel	**Middle Channel**
	
Highest Channel	**Highest Channel**
	

WCDMA Band IV (RMC 12.2Kbps)

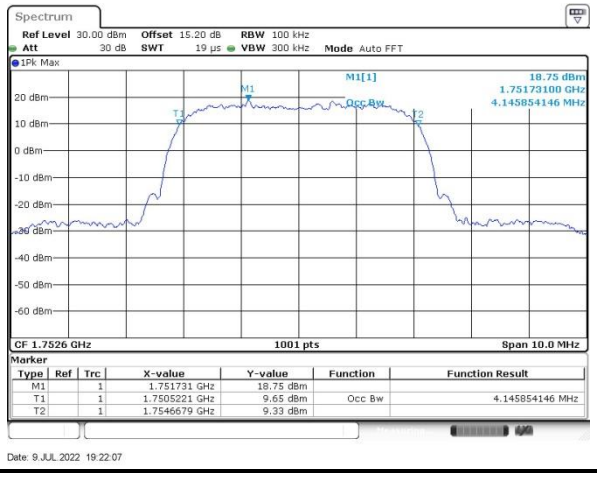
Lowest Channel



Middle Channel

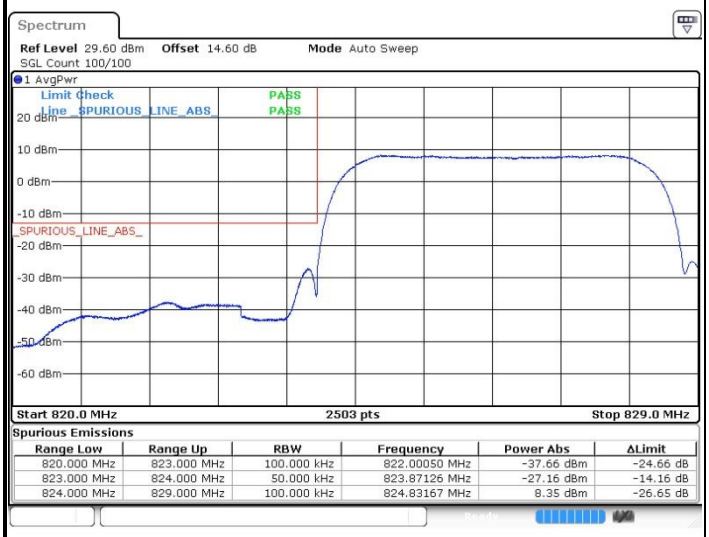


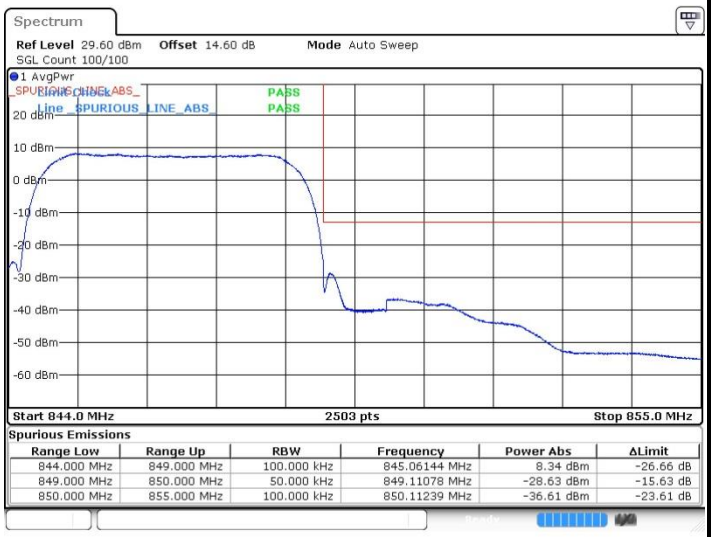
Highest Channel



Conducted Band Edge

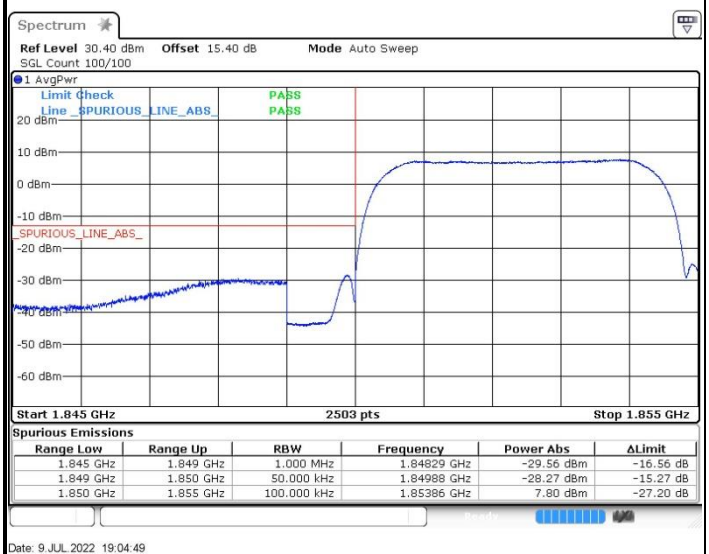
WCDMA Band V (RMC 12.2Kbps)	
Lowest Band Edge	**Highest Band Edge**



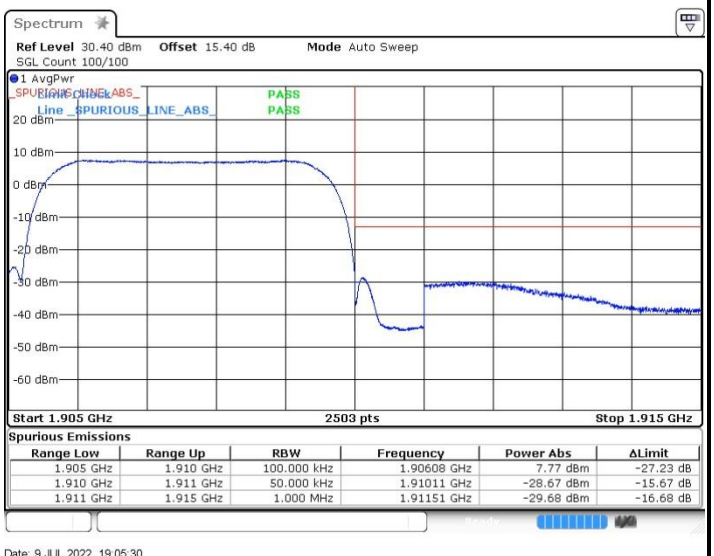


WCDMA Band II (RMC 12.2Kbps)

Lowest Band Edge

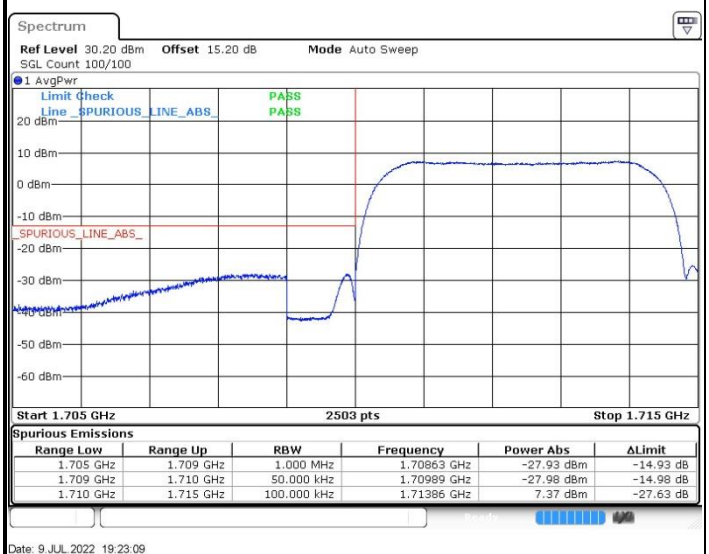


Highest Band Edge

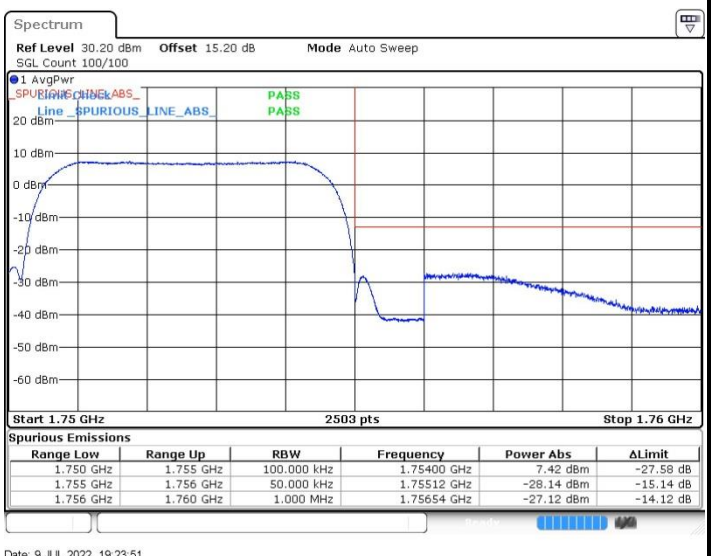


WCDMA Band IV (RMC 12.2Kbps)

Lowest Band Edge



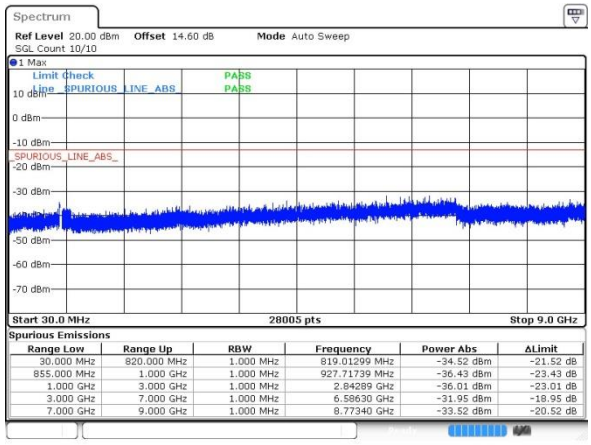
Highest Band Edge



Conducted Spurious Emission

WCDMA Band V (RMC 12.2Kbps)

Lowest Channel

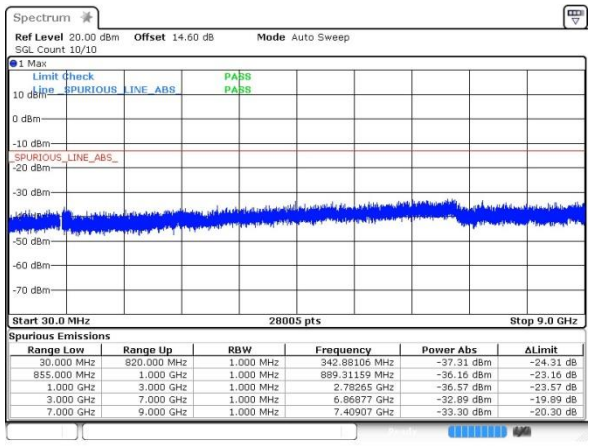


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	820.000 MHz	1.000 MHz	819.01299 MHz	-34.52 dBm	-21.52 dB
855.000 MHz	1.000 GHz	1.000 MHz	927.71739 MHz	-36.43 dBm	-23.43 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.84289 GHz	-36.01 dBm	-23.01 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.58630 GHz	-31.95 dBm	-18.95 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.77340 GHz	-33.52 dBm	-20.52 dB

Date: 9.JUL.2022 19:38:43

Middle Channel

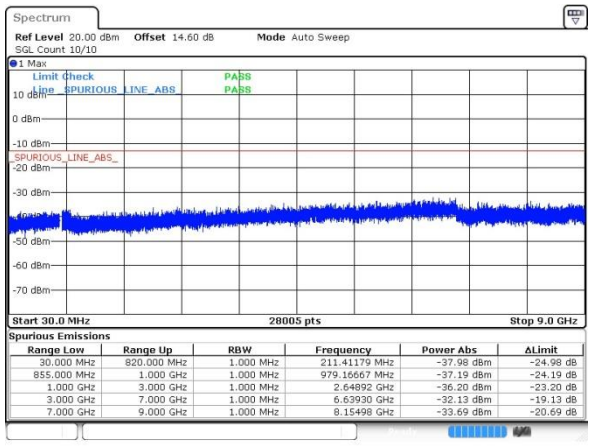


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	820.000 MHz	1.000 MHz	342.88106 MHz	-37.31 dBm	-24.31 dB
855.000 MHz	1.000 GHz	1.000 MHz	889.31159 MHz	-36.16 dBm	-23.16 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.78265 GHz	-36.57 dBm	-23.57 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.86877 GHz	-32.89 dBm	-19.89 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.40907 GHz	-33.30 dBm	-20.30 dB

Date: 9.JUL.2022 19:38:59

Highest Channel



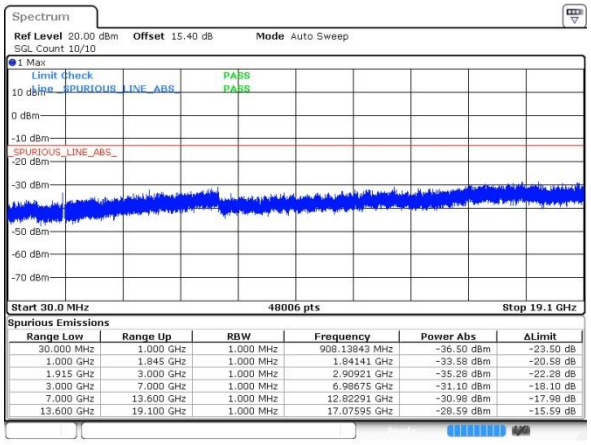
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	820.000 MHz	1.000 MHz	211.41179 MHz	-37.98 dBm	-24.98 dB
855.000 MHz	1.000 GHz	1.000 MHz	979.16667 MHz	-37.19 dBm	-24.19 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.64892 GHz	-36.20 dBm	-23.20 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.63930 GHz	-32.13 dBm	-19.13 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.15498 GHz	-33.69 dBm	-20.69 dB

Date: 9.JUL.2022 19:39:19

WCDMA Band II (RMC 12.2Kbps)

Lowest Channel

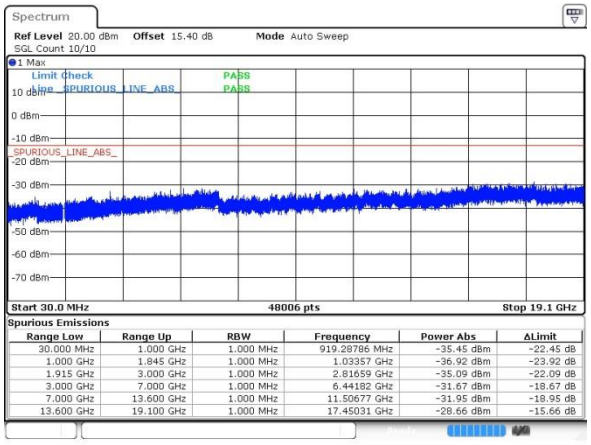


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	908.13843 MHz	-36.50 dBm	-23.50 dB
1.000 GHz	1.845 GHz	1.000 MHz	1.84141 GHz	-33.58 dBm	-20.58 dB
1.915 GHz	3.000 GHz	1.000 MHz	2.90921 GHz	-35.28 dBm	-22.28 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.98675 GHz	-31.10 dBm	-18.10 dB
7.000 GHz	13.600 GHz	1.000 MHz	12.82291 GHz	-30.98 dBm	-17.98 dB
13.600 GHz	19.100 GHz	1.000 MHz	17.07595 GHz	-28.59 dBm	-15.59 dB

Date: 9.JUL.2022 19:06:02

Middle Channel

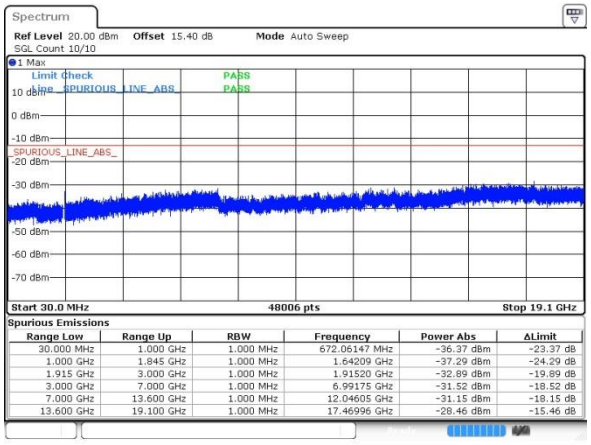


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	919.28786 MHz	-35.45 dBm	-22.45 dB
1.000 GHz	1.845 GHz	1.000 MHz	1.03357 GHz	-36.92 dBm	-23.92 dB
1.915 GHz	3.000 GHz	1.000 MHz	2.81659 GHz	-35.09 dBm	-22.09 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.44182 GHz	-31.67 dBm	-18.67 dB
7.000 GHz	13.600 GHz	1.000 MHz	11.50677 GHz	-31.95 dBm	-18.95 dB
13.600 GHz	19.100 GHz	1.000 MHz	17.45031 GHz	-28.66 dBm	-15.66 dB

Date: 9.JUL.2022 19:06:41

Highest Channel



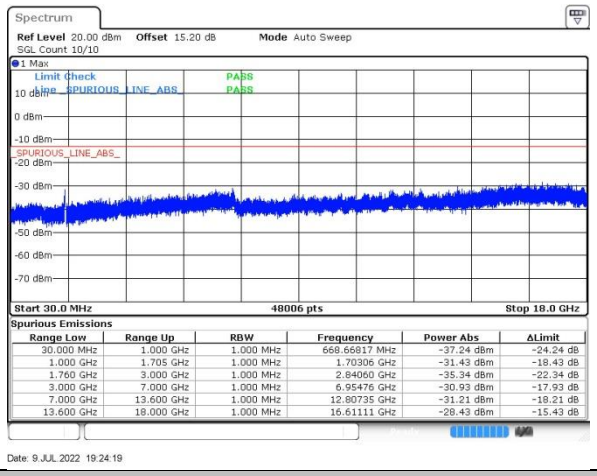
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	672.06147 MHz	-36.37 dBm	-23.37 dB
1.000 GHz	1.845 GHz	1.000 MHz	1.64209 GHz	-37.29 dBm	-24.29 dB
1.915 GHz	3.000 GHz	1.000 MHz	1.91520 GHz	-32.89 dBm	-19.89 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99175 GHz	-31.52 dBm	-18.52 dB
7.000 GHz	13.600 GHz	1.000 MHz	12.04605 GHz	-31.15 dBm	-18.15 dB
13.600 GHz	19.100 GHz	1.000 MHz	17.46996 GHz	-28.46 dBm	-15.46 dB

Date: 9.JUL.2022 19:08:15

WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel

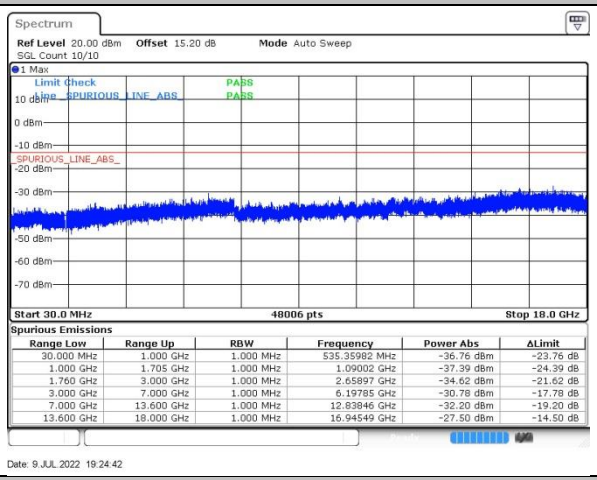


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	668.66817 MHz	-37.24 dBm	-24.24 dB
1.000 GHz	1.705 GHz	1.000 MHz	1.70306 GHz	-31.43 dBm	-18.43 dB
1.760 GHz	3.000 GHz	1.000 MHz	2.84060 GHz	-35.34 dBm	-22.34 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.95476 GHz	-30.93 dBm	-17.93 dB
7.000 GHz	13.600 GHz	1.000 MHz	12.80735 GHz	-31.21 dBm	-18.21 dB
13.600 GHz	18.000 GHz	1.000 MHz	16.61111 GHz	-28.43 dBm	-15.43 dB

Date: 9.JUL.2022 19:24:19

Middle Channel

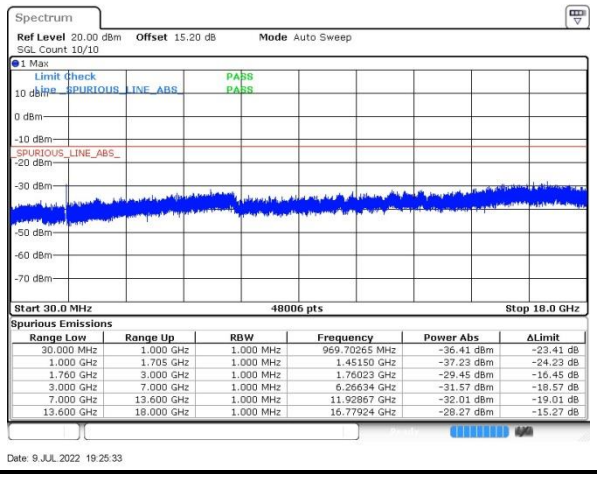


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	535.35982 MHz	-36.76 dBm	-23.76 dB
1.000 GHz	1.705 GHz	1.000 MHz	1.09002 GHz	-37.39 dBm	-24.39 dB
1.760 GHz	3.000 GHz	1.000 MHz	2.65897 GHz	-34.62 dBm	-21.62 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.19785 GHz	-30.78 dBm	-17.78 dB
7.000 GHz	13.600 GHz	1.000 MHz	12.83846 GHz	-32.20 dBm	-19.20 dB
13.600 GHz	18.000 GHz	1.000 MHz	16.94549 GHz	-27.50 dBm	-14.50 dB

Date: 9.JUL.2022 19:24:42

Highest Channel



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	969.70265 MHz	-36.41 dBm	-23.41 dB
1.000 GHz	1.705 GHz	1.000 MHz	1.45150 GHz	-37.23 dBm	-24.23 dB
1.760 GHz	3.000 GHz	1.000 MHz	1.76023 GHz	-29.45 dBm	-16.45 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.26634 GHz	-31.57 dBm	-18.57 dB
7.000 GHz	13.600 GHz	1.000 MHz	11.92867 GHz	-32.01 dBm	-19.01 dB
13.600 GHz	18.000 GHz	1.000 MHz	16.77924 GHz	-28.27 dBm	-15.27 dB

Date: 9.JUL.2022 19:25:33

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	0.0086	PASS
40	Normal Voltage	0.0081	
30	Normal Voltage	0.0039	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0019	
0	Normal Voltage	0.0035	
-10	Normal Voltage	0.0087	
-20	Normal Voltage	0.0093	
-30	Normal Voltage	0.0115	
20	Maximum Voltage	0.0042	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0093	

Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0107	PASS
40	Normal Voltage	0.0067	
30	Normal Voltage	0.0019	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0025	
0	Normal Voltage	0.0053	
-10	Normal Voltage	0.0084	
-20	Normal Voltage	0.0076	
-30	Normal Voltage	0.0114	
20	Maximum Voltage	0.0123	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0091	

Test Conditions	Middle Channel	WCDMA Band IV (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0124	PASS
40	Normal Voltage	0.0086	
30	Normal Voltage	0.0026	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0026	
0	Normal Voltage	0.0043	
-10	Normal Voltage	0.0084	
-20	Normal Voltage	0.0112	
-30	Normal Voltage	0.0062	
20	Maximum Voltage	0.0046	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0038	

Note:

1. Normal Voltage = 3.87V ; Battery End Point (BEP) =3.4V. ; Maximum Voltage =4.45V

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 :	23~25℃
		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	-54.33	-13	-41.33	-61.30	1.58	10.70	H
	2510	-44.81	-13	-31.81	-53.06	2.102	12.50	H
	3345	-56.72	-13	-43.72	-65.61	2.856	13.90	H
	4182	-50.97	-13	-37.97	-59.43	2.689	13.30	H
	1672	-50.96	-13	-37.96	-57.93	1.58	10.70	V
	2510	-44.47	-13	-31.47	-52.72	2.10	12.50	V
	3345	-56.99	-13	-43.99	-65.88	2.86	13.90	V
	4182	-46.55	-13	-33.55	-55.01	2.69	13.30	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	1672	-46.48	-13	-33.48	-53.45	1.58	10.70	H
	2510	-29.85	-13	-16.85	-38.10	2.102	12.50	H
	3348	-53.45	-13	-40.45	-62.34	2.856	13.90	H
	4182	-51.59	-13	-38.59	-60.05	2.689	13.30	H
	5016	-47.92	-13	-34.92	-55.68	3.093	13.00	H
	5856	-43.36	-13	-30.36	-52.13	3.178	14.10	H
	6690	-50.54	-13	-37.54	-57.78	3.306	12.70	H
	7530	-46.32	-13	-33.32	-53.91	3.406	13.15	H
	1672	-47.87	-13	-34.87	-54.84	1.58	10.70	V
	2510	-34.07	-13	-21.07	-42.32	2.10	12.50	V
	3348	-49.74	-13	-36.74	-58.63	2.86	13.90	V
	4182	-48.59	-13	-35.59	-57.05	2.69	13.30	V
	5016	-52.16	-13	-39.16	-59.92	3.09	13.00	V
	5856	-47.36	-13	-34.36	-56.13	3.18	14.10	V
	6690	-50.49	-13	-37.49	-57.73	3.31	12.70	V
	7530	-44.97	-13	-31.97	-52.56	3.41	13.15	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	-58.30	-13	-45.30	-70.56	2.641	14.90	H
	5640	-30.63	-13	-17.63	-42.49	2.94	14.80	H
	7524	-46.18	-13	-33.18	-55.95	3.39	13.16	H
	3759	-58.86	-13	-45.86	-71.12	2.64	14.90	V
	5640	-33.30	-13	-20.30	-45.16	2.94	14.80	V
	7524	-46.84	-13	-33.84	-56.61	3.39	13.16	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	3759	-58.17	-13	-45.17	-70.43	2.641	14.90	H
	5640	-40.28	-13	-27.28	-52.14	2.94	14.80	H
	7524	-46.11	-13	-33.11	-55.88	3.39	13.16	H
	3759	-58.27	-13	-45.27	-70.53	2.64	14.90	V
	5640	-34.36	-13	-21.36	-46.22	2.94	14.80	V
	7524	-45.92	-13	-32.92	-55.69	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	-64.67	-13	-51.67	-71.64	1.58	10.70	H
	2510	-61.56	-13	-48.56	-69.81	2.102	12.50	H
	3348	-60.31	-13	-47.31	-69.20	2.856	13.90	H
	1672	-63.96	-13	-50.96	-70.93	1.58	10.70	V
	2510	-61.44	-13	-48.44	-69.69	2.10	12.50	V
	3348	-60.51	-13	-47.51	-69.40	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	3759	-59.22	-13	-46.22	-71.48	2.64	14.90	H
	5640	-52.46	-13	-39.46	-64.32	2.94	14.80	H
	7524	-45.89	-13	-32.89	-55.66	3.39	13.16	H
	3759	-58.80	-13	-45.80	-71.06	2.64	14.90	V
	5640	-52.53	-13	-39.53	-64.39	2.94	14.80	V
	7524	-46.22	-13	-33.22	-55.99	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	-59.27	-13	-46.27	-70.01	2.604	13.34	H
	5199	-53.31	-13	-40.31	-63.82	3.011	13.52	H
	6936	-48.71	-13	-35.71	-58.91	3.271	13.47	H
	3465	-59.26	-13	-46.26	-70.00	2.604	13.34	V
	5199	-53.24	-13	-40.24	-63.75	3.011	13.52	V
	6936	-47.81	-13	-34.81	-58.01	3.271	13.47	V

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