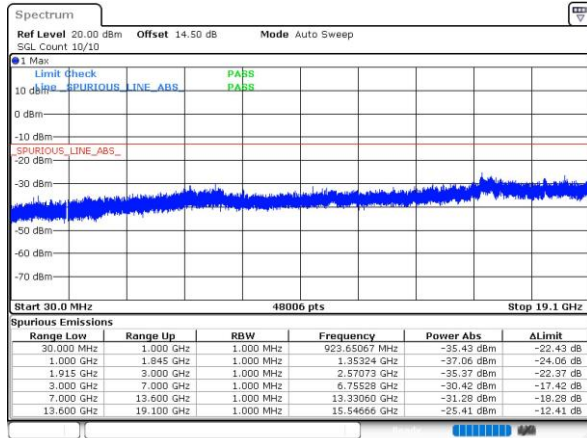




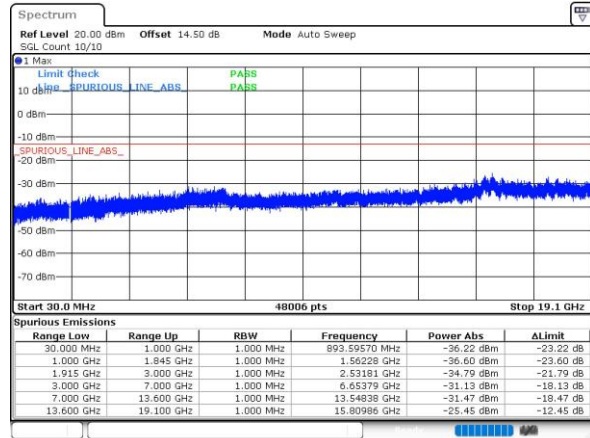
GSM1900 (GSM)

Lowest Channel

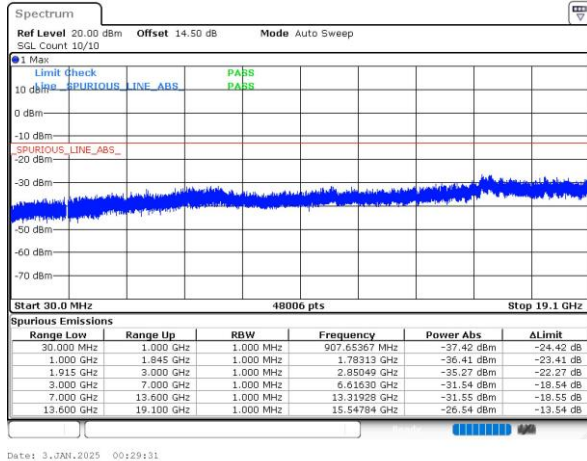


GSM1900 (EDGE class 8)

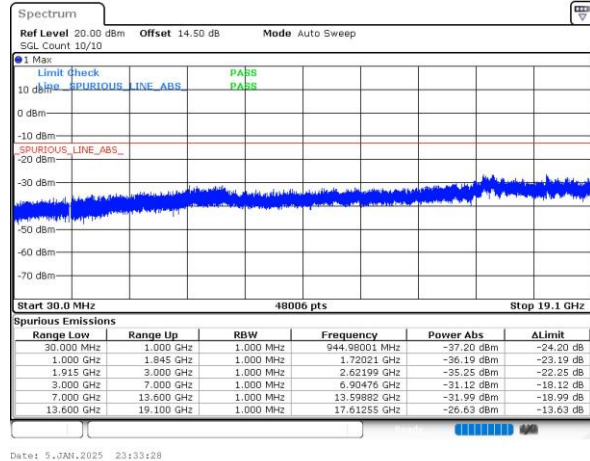
Lowest Channel



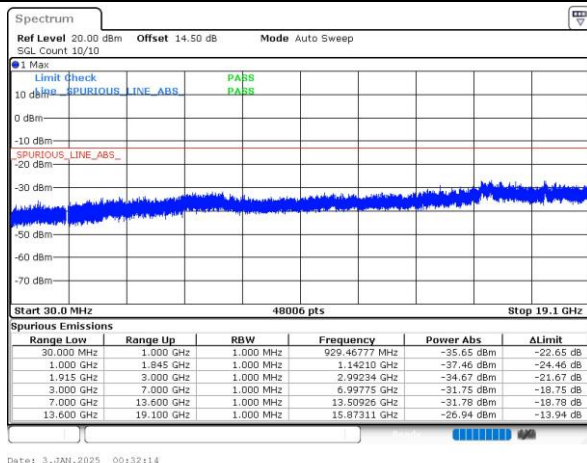
Middle Channel



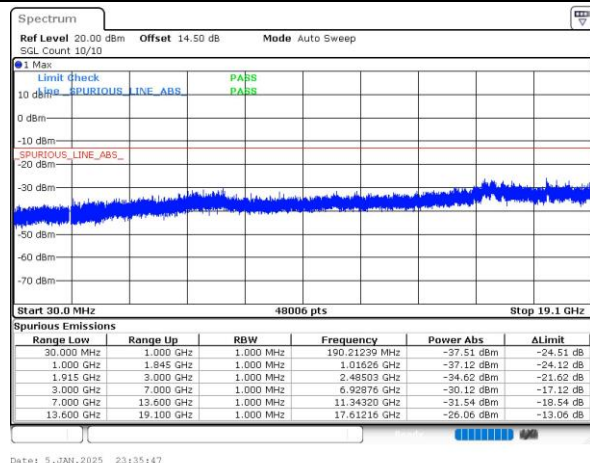
Middle Channel



Highest Channel



Highest Channel



**Frequency Stability**

Test Conditions	Middle Channel	GSM850 (GSM)	GSM850 (EDGE class 8)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		Result
50	Normal Voltage	0.0007	0.0001	PASS
40	Normal Voltage	0.0012	0.0004	
30	Normal Voltage	0.0023	0.0009	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0008	0.0007	
0	Normal Voltage	0.0020	0.0000	
-10	Normal Voltage	0.0016	0.0005	
-20	Normal Voltage	0.0018	0.0004	
-30	Normal Voltage	0.0004	0.0006	
20	Maximum Voltage	0.0008	0.0005	
20	Normal Voltage	0.0000	0.0000	
20	Battery End Point	0.0010	0.0002	

Test Conditions	Middle Channel	GSM1900 (GSM)	GSM1900 (EDGE class 8)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		Result
50	Normal Voltage	0.0001	0.0007	PASS
40	Normal Voltage	0.0004	0.0004	
30	Normal Voltage	0.0009	0.0003	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0007	0.0009	
0	Normal Voltage	0.0000	0.0006	
-10	Normal Voltage	0.0005	0.0013	
-20	Normal Voltage	0.0004	0.0003	
-30	Normal Voltage	0.0006	0.0010	
20	Maximum Voltage	0.0005	0.0005	
20	Normal Voltage	0.0000	0.0000	
20	Battery End Point	0.0002	0.0002	

Note:

1. Normal Voltage = 3.91V ; Minimum Voltage = 3.6 V ; Maximum Voltage =4.5 V
2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



A2. WCDMA

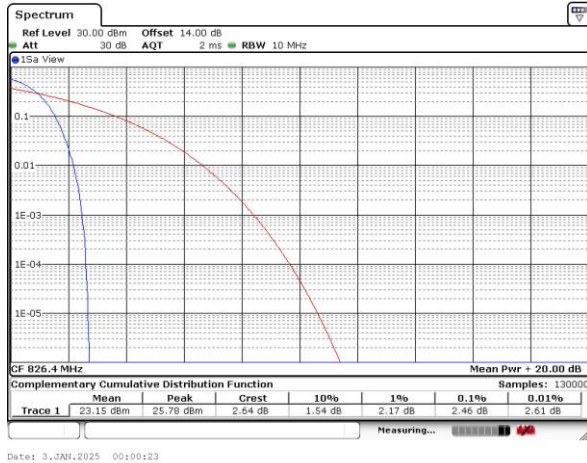
Peak-to-Average Ratio

Mode	WCDMA Band V(dB)	WCDMA Band II(dB)	WCDMA Band IV(dB)	Limit: 13dB
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps	Result
Lowest CH	2.46	3.01	2.93	PASS
Middle CH	2.72	3.04	3.01	
Highest CH	2.78	3.01	2.99	



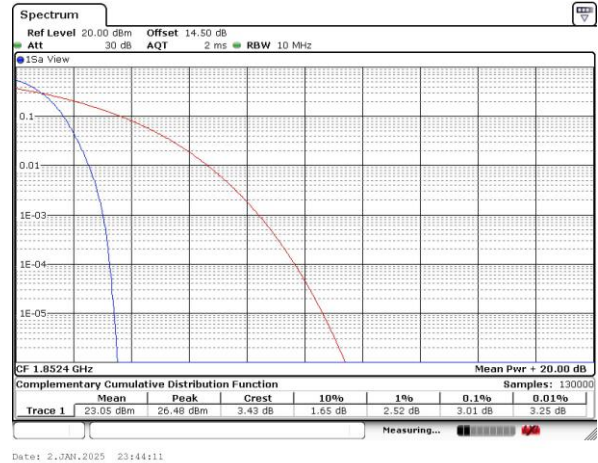
WCDMA Band V (RMC 12.2Kbps)

Lowest Channel

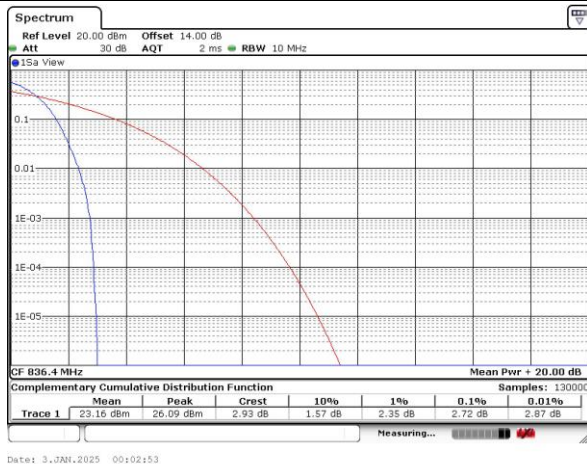


WCDMA Band II (RMC 12.2Kbps)

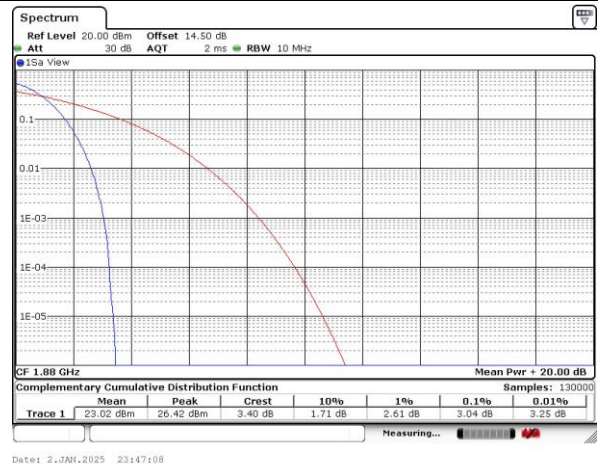
Lowest Channel



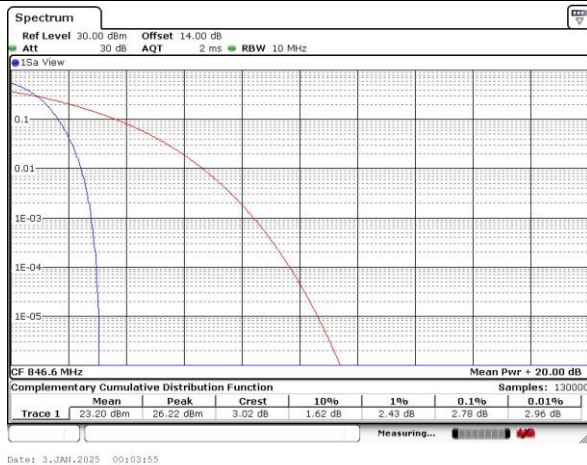
Middle Channel



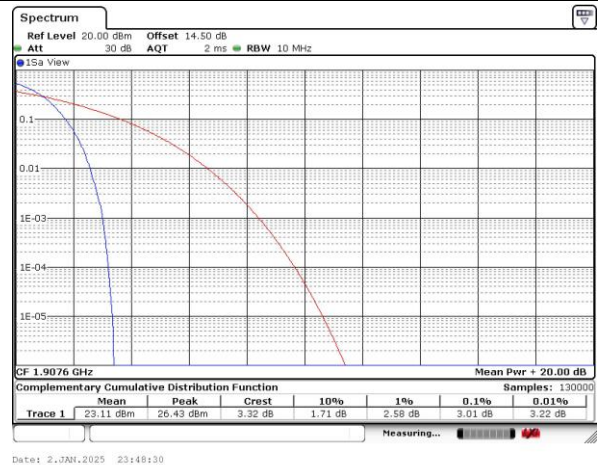
Middle Channel



Highest Channel



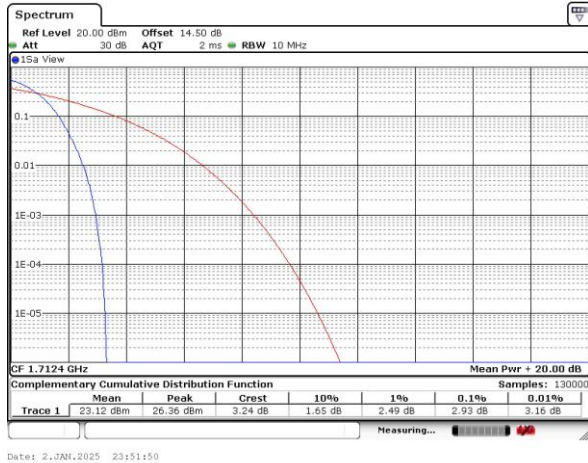
Highest Channel



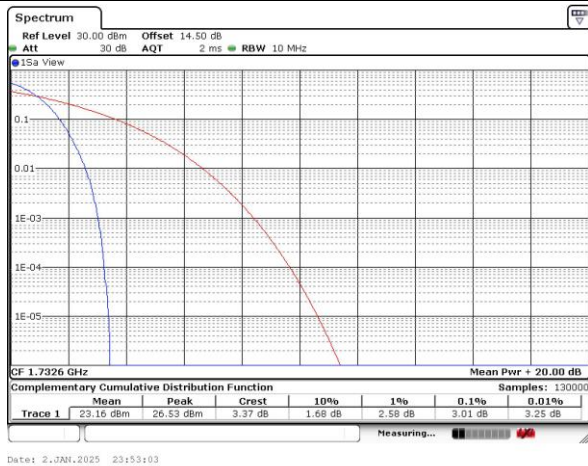


WCDMA Band IV (RMC 12.2Kbps)

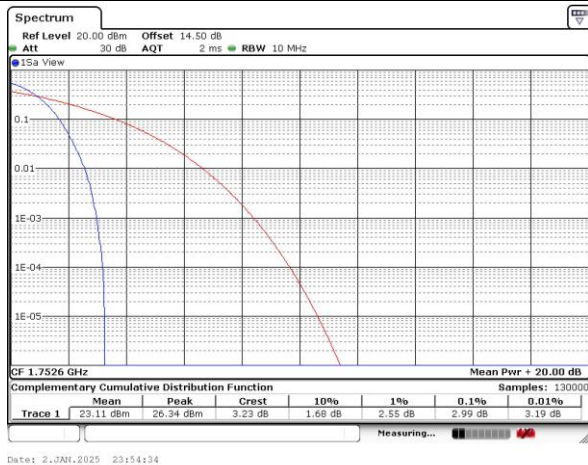
Lowest Channel



Middle Channel



Highest Channel





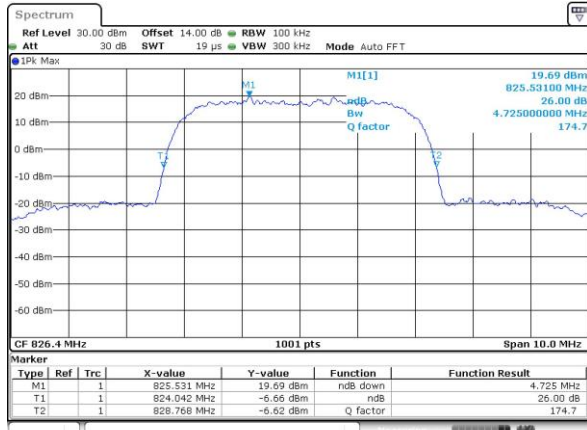
26dB Bandwidth

Mode	WCDMA Band V(MHz)	WCDMA Band II(MHz)	WCDMA Band IV(MHz)
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.73	4.71	4.70
Middle CH	4.71	4.70	4.70
Highest CH	4.71	4.69	4.70



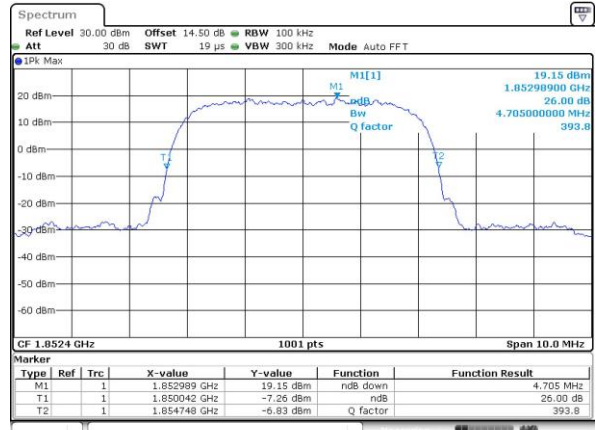
WCDMA Band V (RMC 12.2Kbps)

Lowest Channel

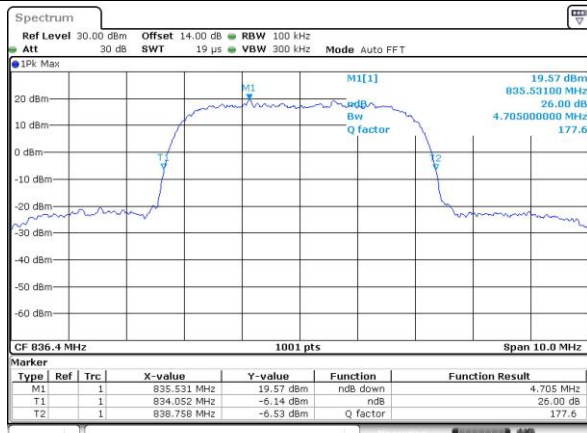


WCDMA Band II (RMC 12.2Kbps)

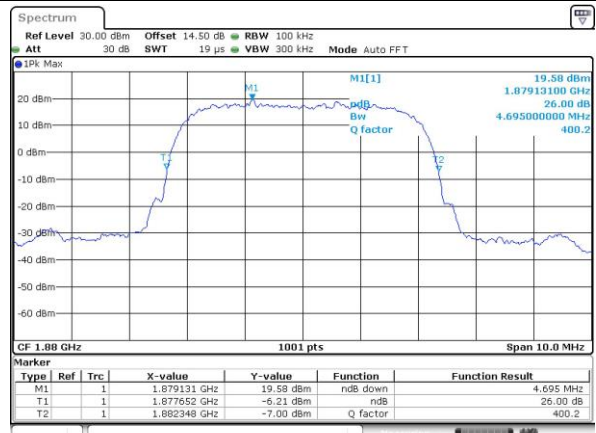
Lowest Channel



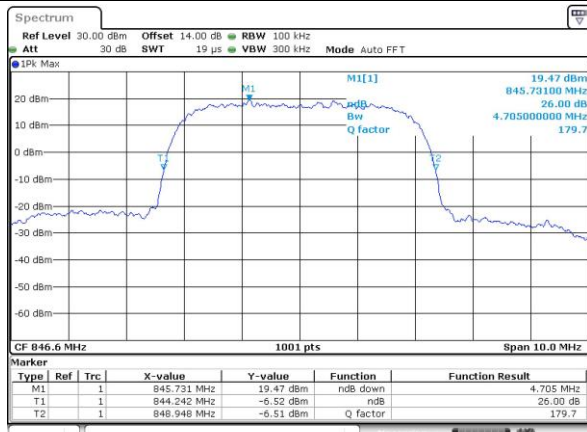
Middle Channel



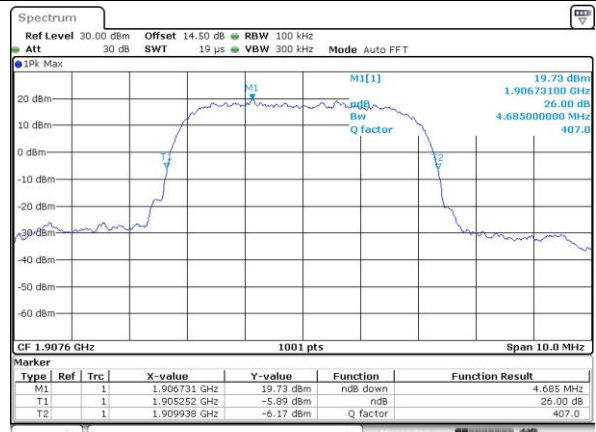
Middle Channel



Highest Channel



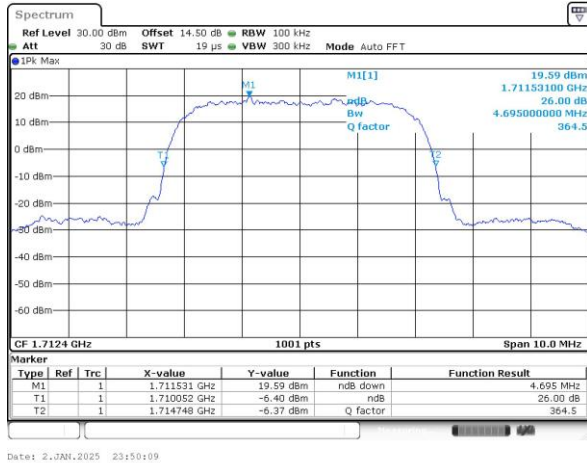
Highest Channel



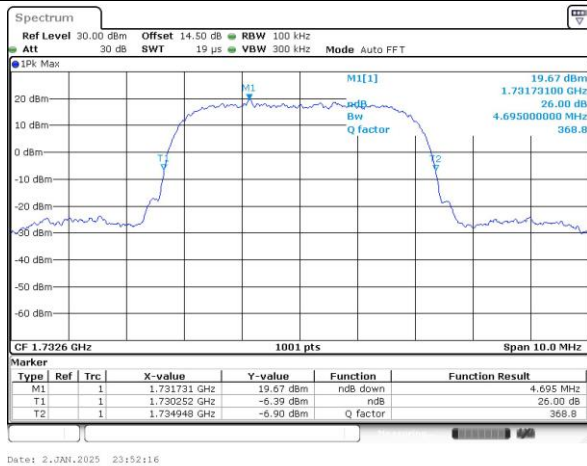


WCDMA Band IV (RMC 12.2Kbps)

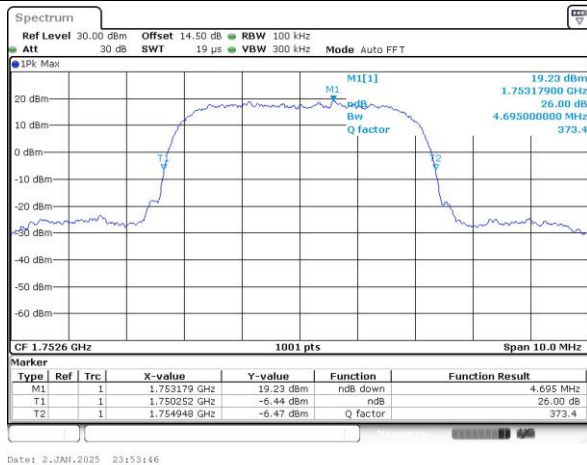
Lowest Channel



Middle Channel



Highest Channel





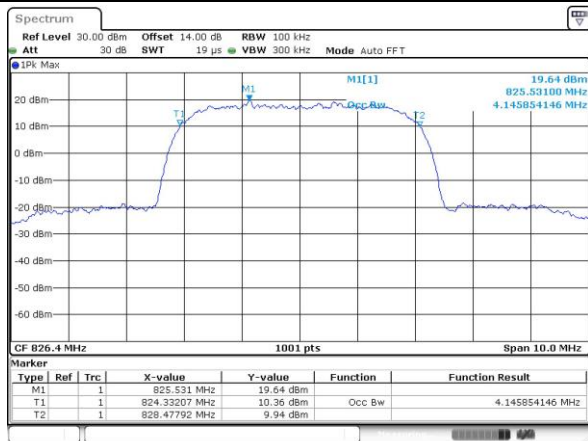
Occupied Bandwidth

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



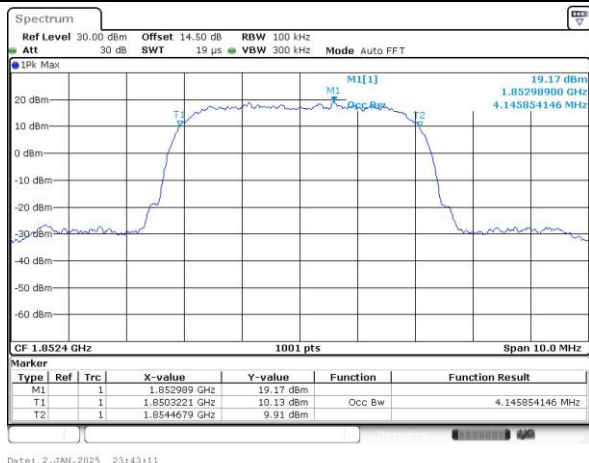
WCDMA Band V (RMC 12.2Kbps)

Lowest Channel

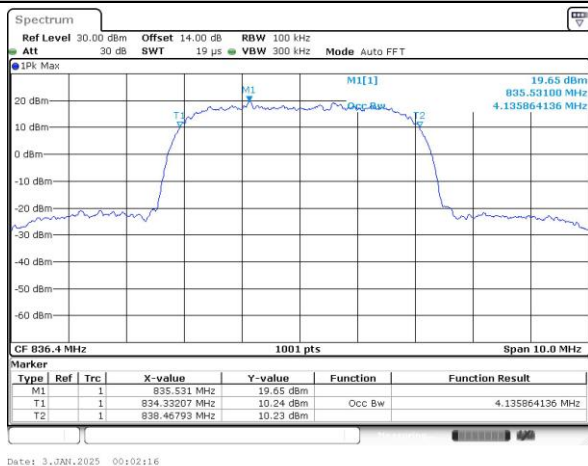


WCDMA Band II (RMC 12.2Kbps)

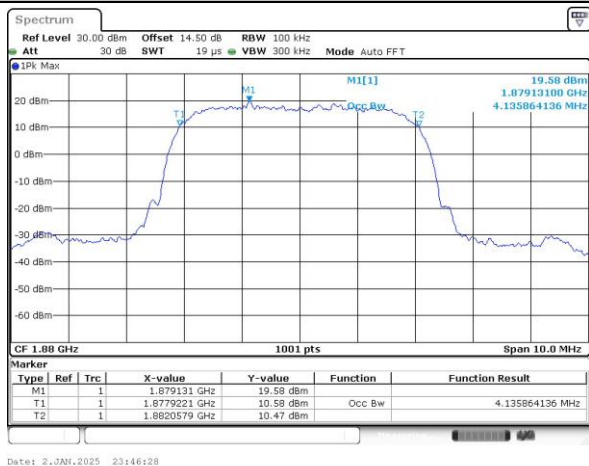
Lowest Channel



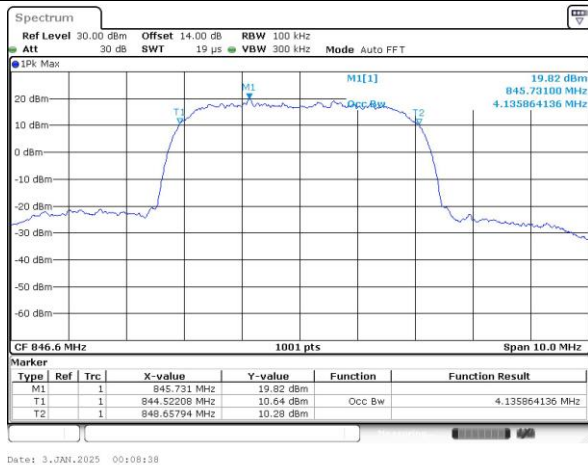
Middle Channel



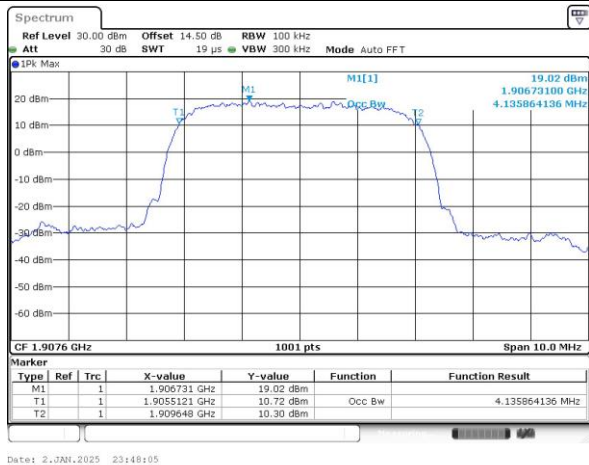
Middle Channel



Highest Channel



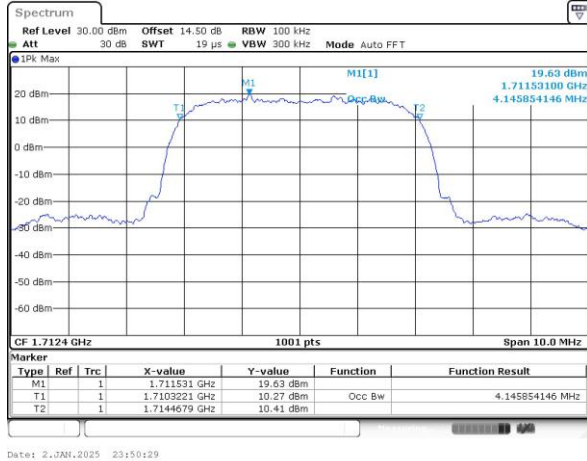
Highest Channel



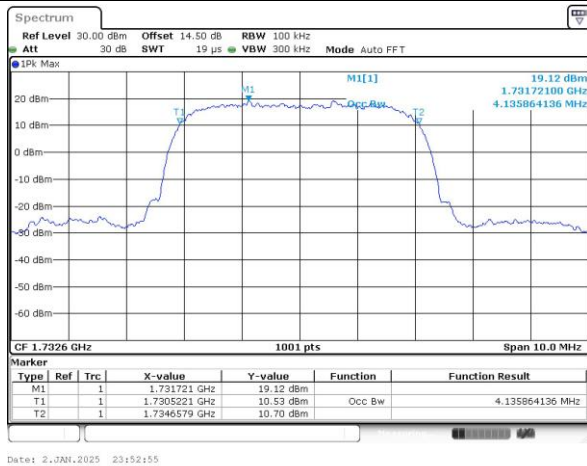


WCDMA Band IV (RMC 12.2Kbps)

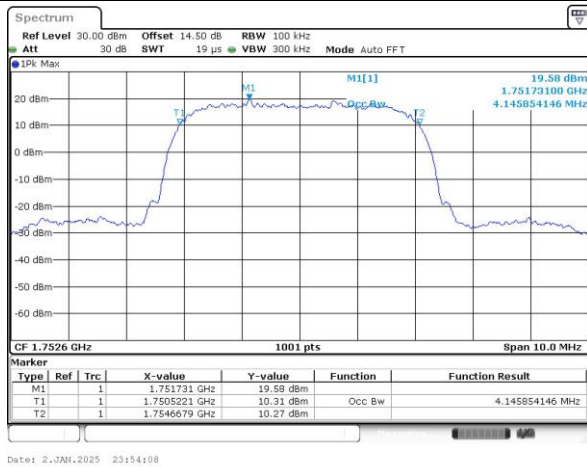
Lowest Channel



Middle Channel

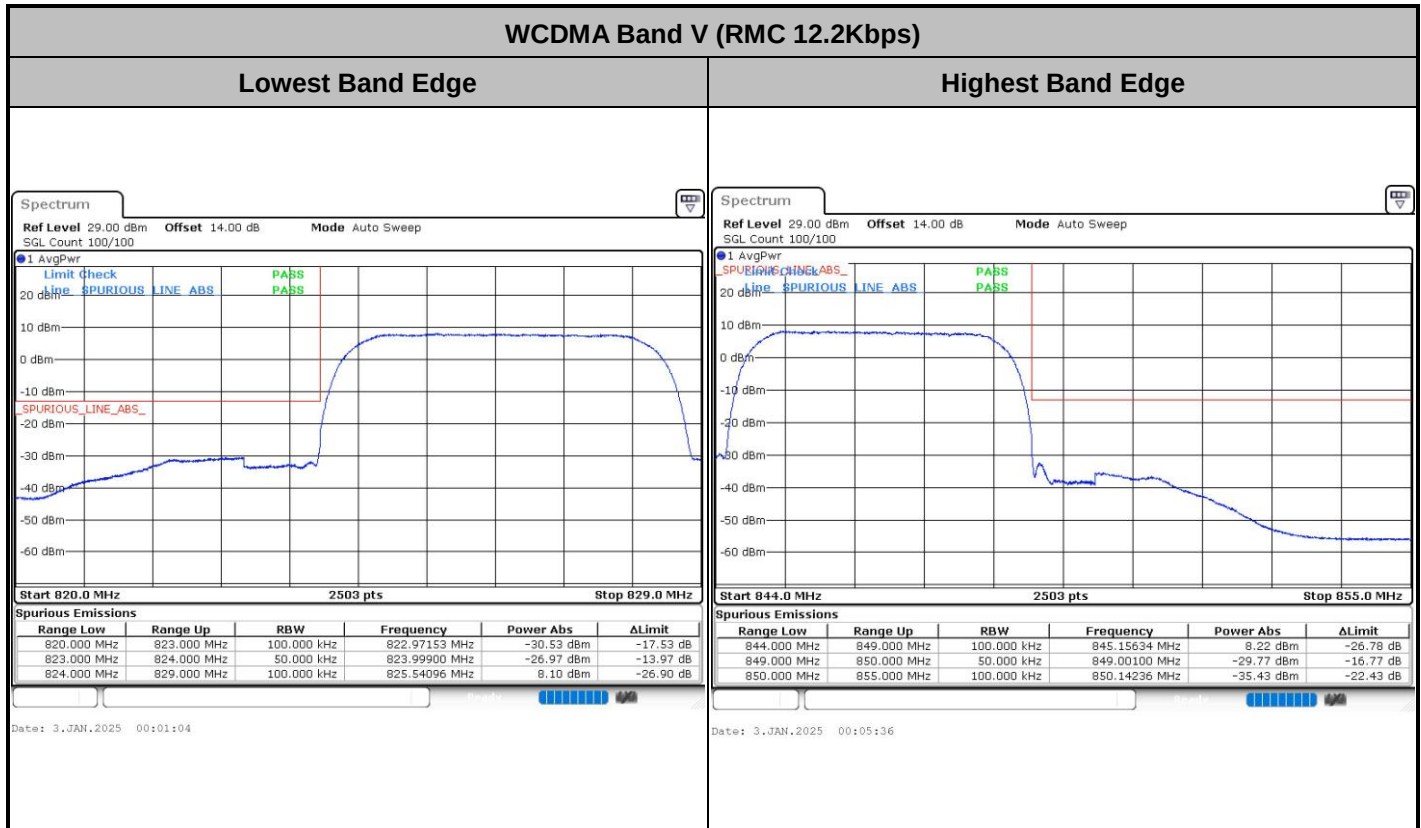


Highest Channel





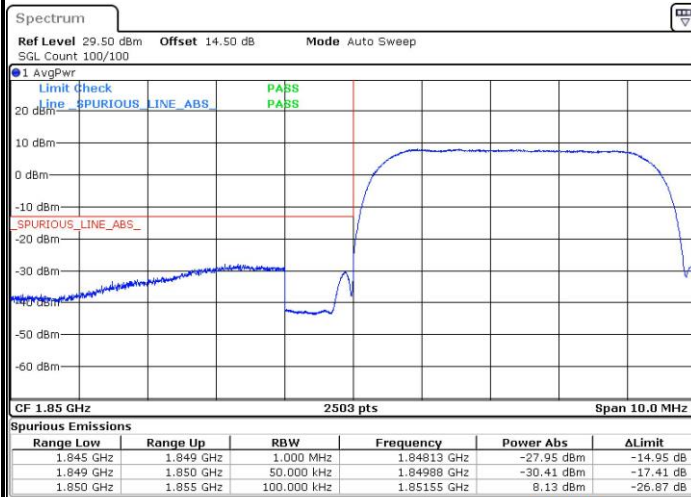
Conducted Band Edge





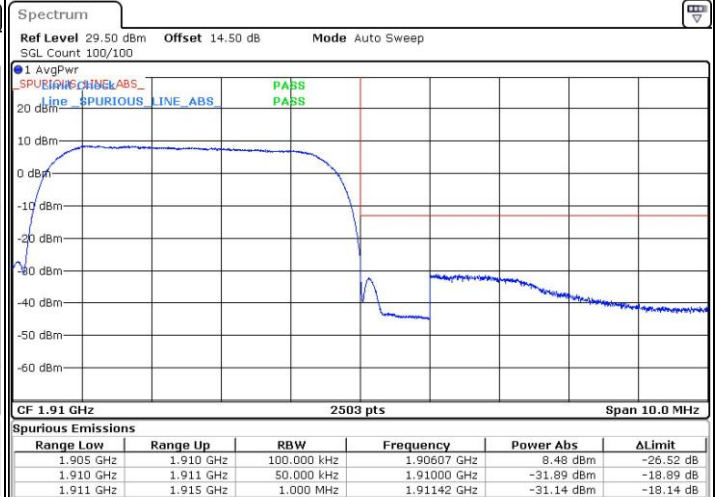
WCDMA Band II (RMC 12.2Kbps)

Lowest Band Edge



Date: 2.JAN.2025 23:43:50

Highest Band Edge



Date: 2.JAN.2025 23:49:35



WCDMA Band IV (RMC 12.2Kbps)

Lowest Band Edge

Highest Band Edge



Date: 2.JAN.2025 23:51:14



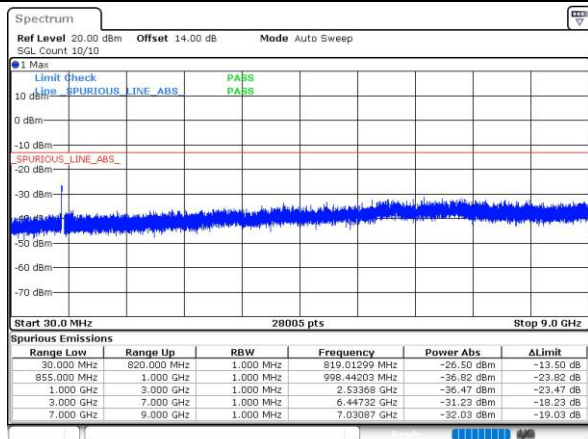
Date: 2.JAN.2025 23:55:41



Conducted Spurious Emission

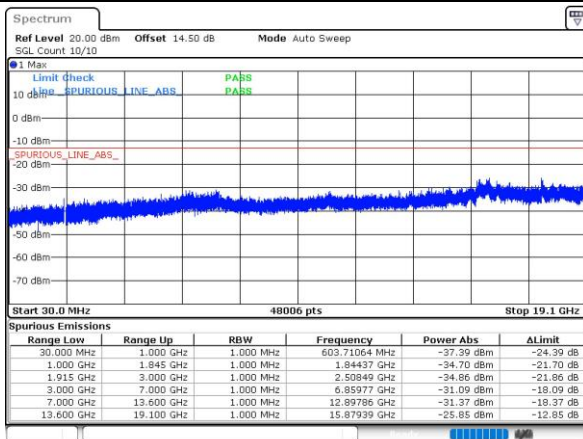
WCDMA Band V (RMC 12.2Kbps)

Lowest Channel

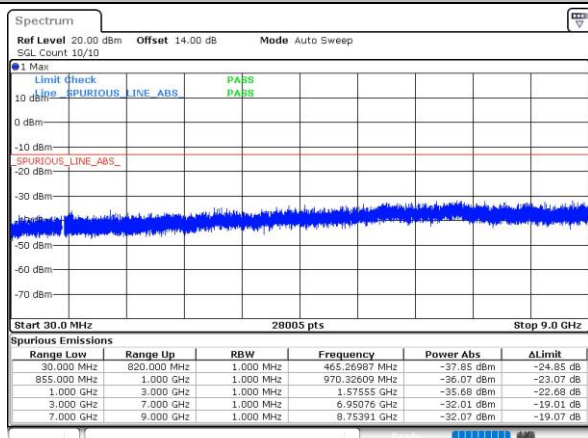


WCDMA Band II (RMC 12.2Kbps)

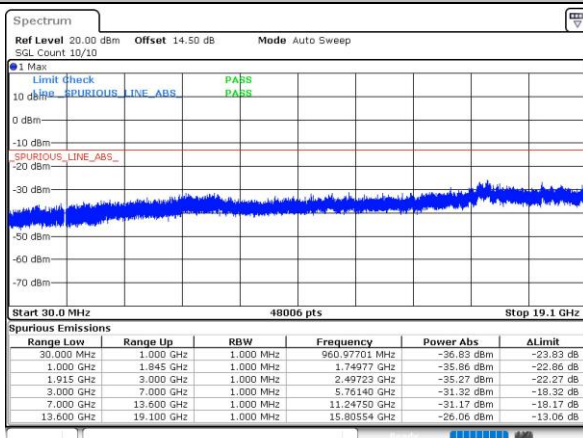
Lowest Channel



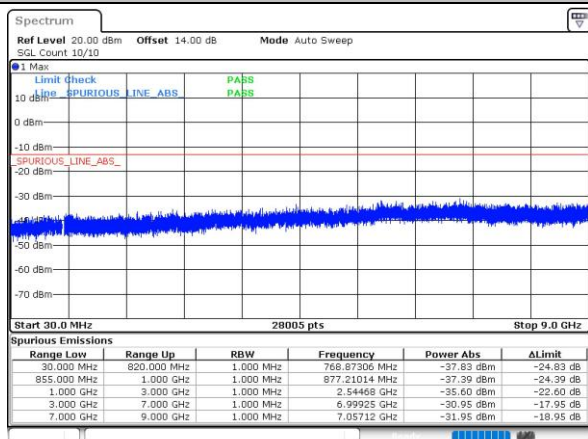
Middle Channel



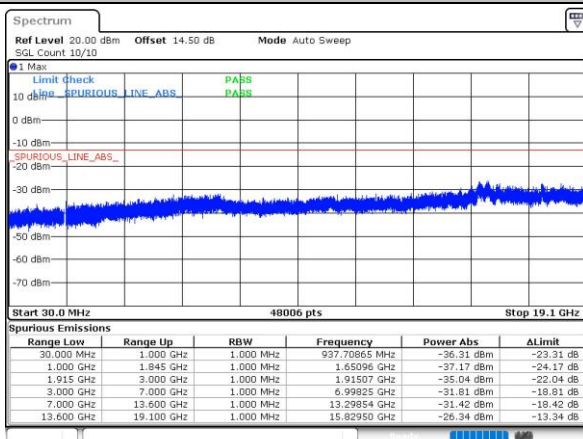
Middle Channel



Highest Channel



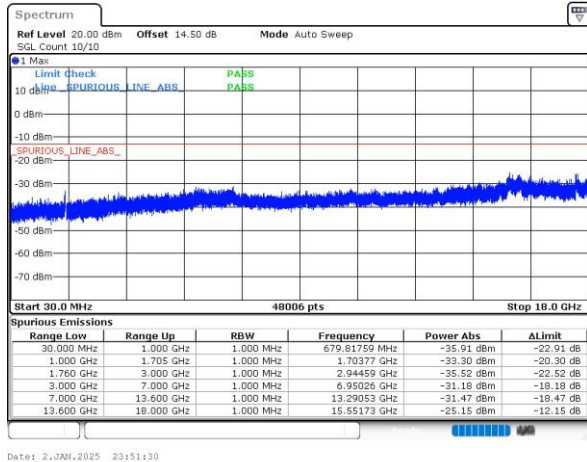
Highest Channel



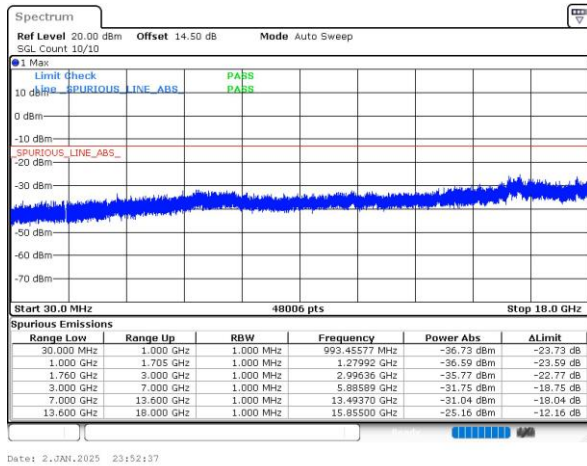


WCDMA Band IV (RMC 12.2Kbps)

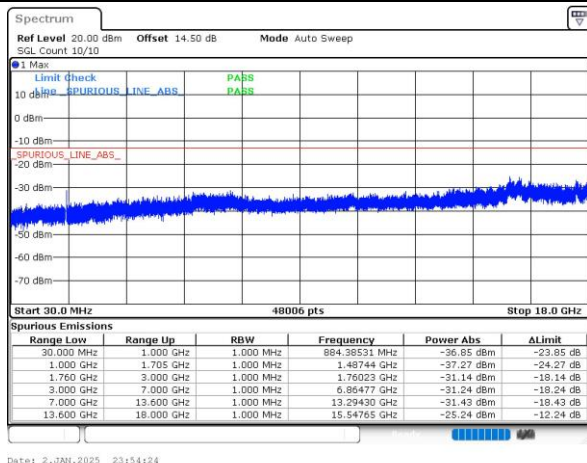
Lowest Channel



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	0.0013	PASS
40	Normal Voltage	0.0006	
30	Normal Voltage	0.0023	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0005	
0	Normal Voltage	0.0009	
-10	Normal Voltage	0.0017	
-20	Normal Voltage	0.0019	
-30	Normal Voltage	0.0021	
20	Maximum Voltage	0.0011	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0004	

Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0008	PASS
40	Normal Voltage	0.0004	
30	Normal Voltage	0.0013	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0004	
0	Normal Voltage	0.0006	
-10	Normal Voltage	0.0010	
-20	Normal Voltage	0.0011	
-30	Normal Voltage	0.0012	
20	Maximum Voltage	0.0007	
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	0.0007	PASS
40	Normal Voltage	0.0004	
30	Normal Voltage	0.0012	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0004	
0	Normal Voltage	0.0005	
-10	Normal Voltage	0.0009	
-20	Normal Voltage	0.0010	
-30	Normal Voltage	0.0011	
20	Maximum Voltage	0.0006	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0003	

Note:

1. Normal Voltage = 3.91V ; Minimum Voltage = 3.6 V ; Maximum Voltage =4.5 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 :	Kuang Jia	Temperature :	22~25°C
		Relative Humidity :	48~52%

Note: Pre-scanned harmonic for the different antennas, we choose the worst antenna mode to perform final test and record in the report.

GSM850 (GSM) _ANT0									
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	-61.87	-13	-48.87	-73.55	-65.12	4.00	9.40	H
	2509.2	-57.17	-13	-44.17	-76.17	-60.74	4.88	10.60	H
	3345.6	-56.30	-13	-43.30	-77.27	-61.23	5.52	12.60	H
	1672.8	-55.96	-13	-42.96	-68.35	-59.21	4.00	9.40	V
	2509.2	-57.38	-13	-44.38	-76.59	-60.95	4.88	10.60	V
	3345.6	-56.24	-13	-43.24	-77.51	-61.17	5.52	12.60	V

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

GSM850 (EDGE 1 Tx slots) _ANT0									
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	-62.92	-13	-49.92	-74.60	-66.17	4.00	9.40	H
	2509.2	-58.36	-13	-45.36	-77.36	-61.93	4.88	10.60	H
	3345.6	-58.01	-13	-45.01	-78.98	-62.94	5.52	12.60	H
	1672.8	-57.59	-13	-44.59	-69.98	-60.84	4.00	9.40	V
	2509.2	-57.07	-13	-44.07	-76.28	-60.64	4.88	10.60	V
	3345.6	-57.48	-13	-44.48	-78.75	-62.41	5.52	12.60	V

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

GSM1900 (GSM) _ANT2									
Channel	Frequency (MHz)	EIRP (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	-57.79	-13	-44.79	-80.08	-64.54	5.85	12.60	H
	5640	-57.64	-13	-44.64	-81.60	-63.44	7.30	13.10	H
	7520	-55.64	-13	-42.64	-82.13	-58.79	8.35	11.50	H
	3760	-55.57	-13	-42.57	-81.02	-62.32	5.85	12.60	V
	5640	-57.27	-13	-44.27	-81.38	-63.07	7.30	13.10	V
	7520	-55.59	-13	-42.59	-82.06	-58.74	8.35	11.50	V

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



GSM1900 (EDGE 1 Tx slots) _ANT2									
Channel	Frequency (MHz)	EIRP (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	-57.87	-13	-44.87	-80.16	-64.62	5.85	12.60	H
	5640	-57.59	-13	-44.59	-81.55	-63.39	7.30	13.10	H
	7520	-54.95	-13	-41.95	-81.44	-58.10	8.35	11.50	H
	3760	-55.62	-13	-42.62	-81.07	-62.37	5.85	12.60	V
	5640	-57.38	-13	-44.38	-81.49	-63.18	7.30	13.10	V
	7520	-55.40	-13	-42.40	-81.87	-58.55	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) _ANT0									
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	-67.14	-13	-54.14	-78.82	-70.39	4.00	9.40	H
	2509.2	-61.19	-13	-48.19	-80.19	-64.76	4.88	10.60	H
	3345.6	-60.76	-13	-47.76	-81.73	-65.69	5.52	12.60	H
	1672.8	-65.88	-13	-52.88	-78.27	-69.13	4.00	9.40	V
	2509.2	-61.21	-13	-48.21	-80.42	-64.78	4.88	10.60	V
	3345.6	-60.17	-13	-47.17	-81.44	-65.10	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) _ANT2									
Channel	Frequency (MHz)	EIRP (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	-57.86	-13	-44.86	-80.15	-64.61	5.85	12.60	H
	5640	-57.59	-13	-44.59	-81.55	-63.39	7.30	13.10	H
	7520	-54.91	-13	-41.91	-81.40	-58.06	8.35	11.50	H
	3760	-55.47	-13	-42.47	-80.92	-62.22	5.85	12.60	V
	5640	-57.42	-13	-44.42	-81.53	-63.22	7.30	13.10	V
	7520	-55.49	-13	-42.49	-81.96	-58.64	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) _ANT2									
Channel	Frequency (MHz)	EIRP (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	3465.2	-59.82	-13	-46.82	-81.67	-66.67	5.65	12.50	H
	5197.8	-57.70	-13	-44.70	-81.76	-63.37	7.13	12.80	H
	6930.4	-56.68	-13	-43.68	-82.30	-60.08	8.40	11.80	H
	3465.2	-59.51	-13	-46.51	-81.16	-66.36	5.65	12.50	V
	5197.8	-57.55	-13	-44.55	-81.88	-63.22	7.13	12.80	V
	6930.4	-55.61	-13	-42.61	-82.15	-59.01	8.40	11.80	V

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