

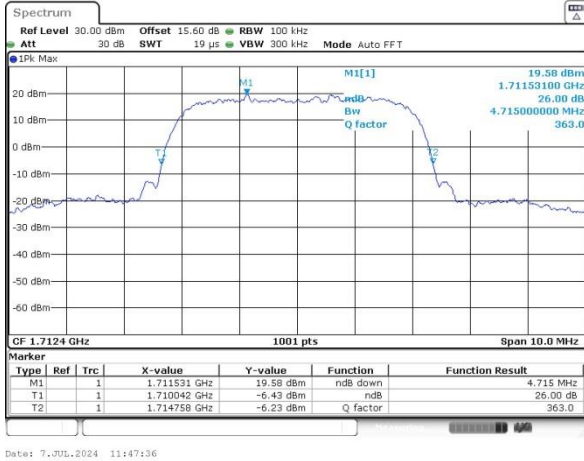


WCDMA Band IV (RMC 12.2Kbps)

-

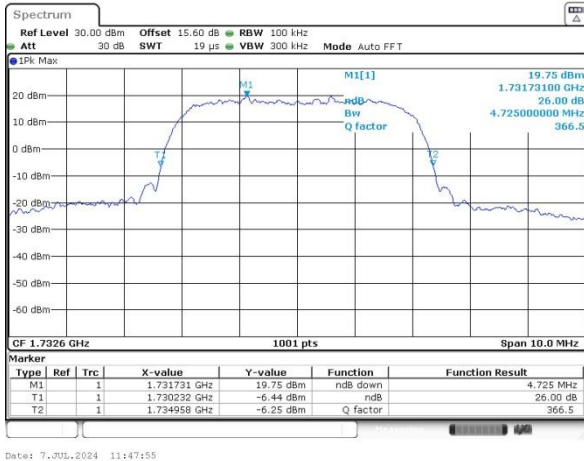
Lowest Channel

-



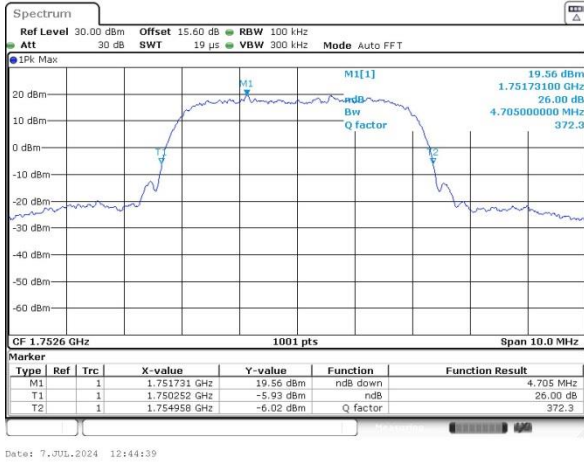
Middle Channel

-



Highest Channel

-





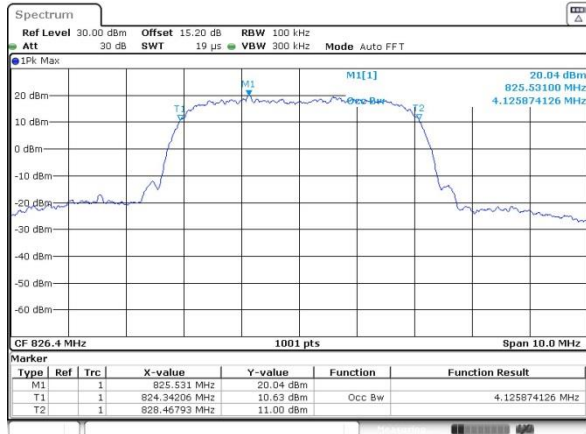
Occupied Bandwidth

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



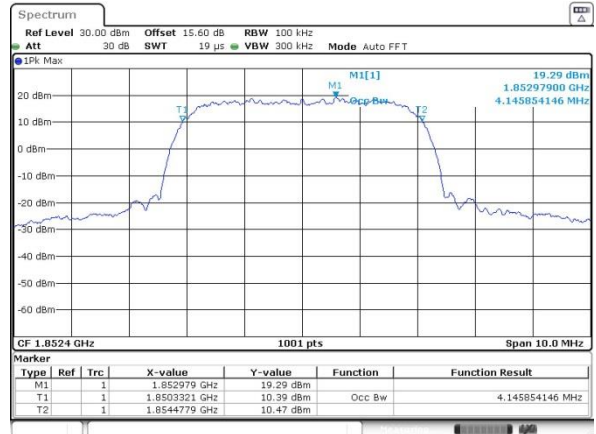
WCDMA Band V (RMC 12.2Kbps)

Lowest Channel

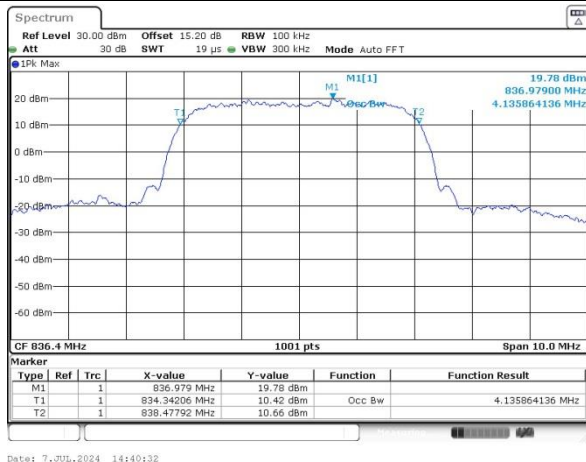


WCDMA Band II (RMC 12.2Kbps)

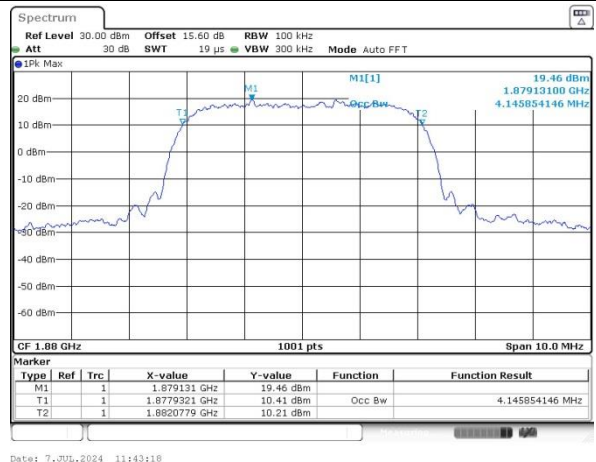
Lowest Channel



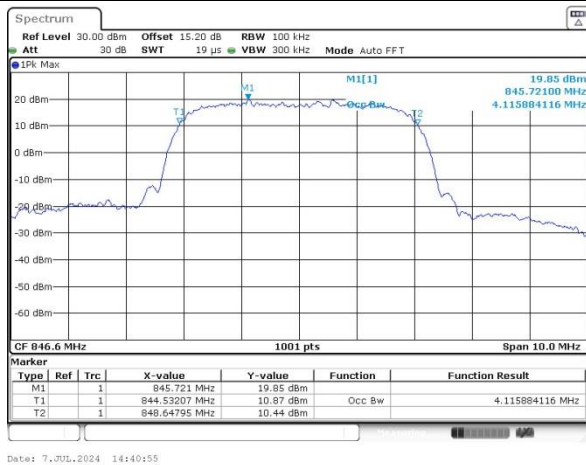
Middle Channel



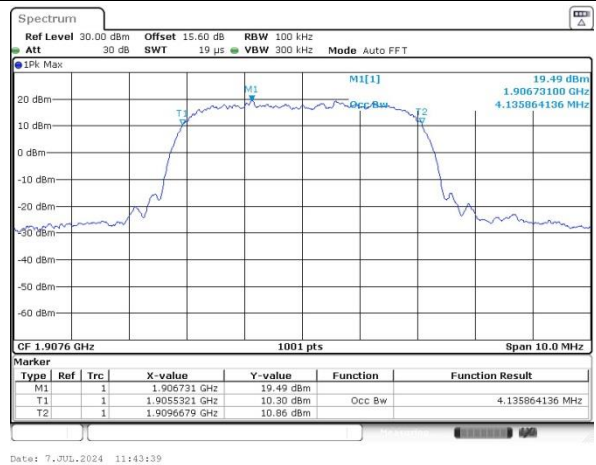
Middle Channel



Highest Channel



Highest Channel



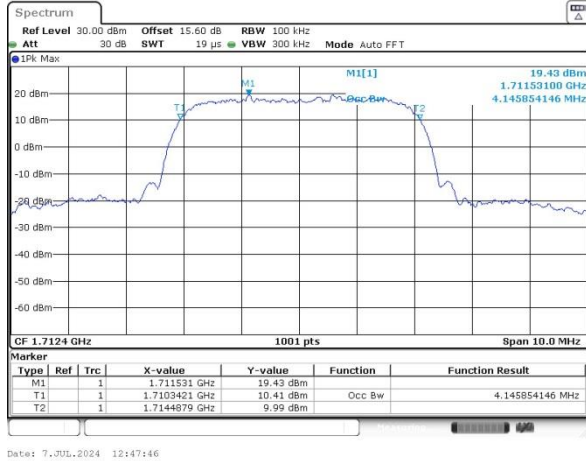


WCDMA Band IV (RMC 12.2Kbps)

-

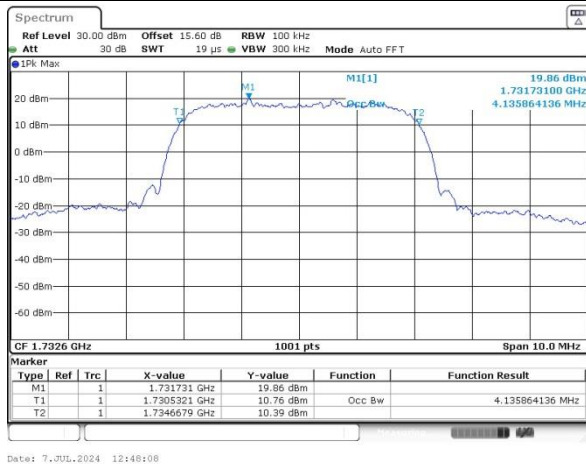
Lowest Channel

-



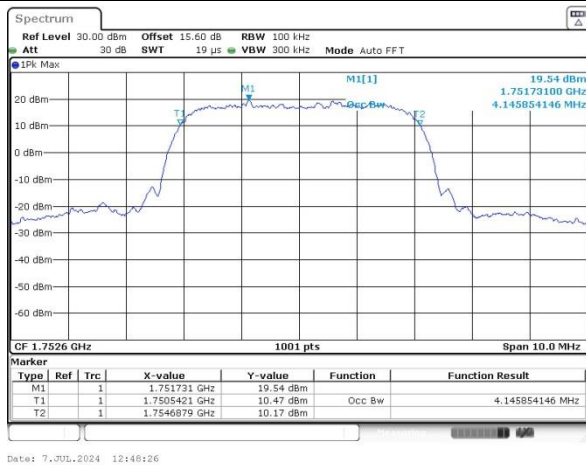
Middle Channel

-



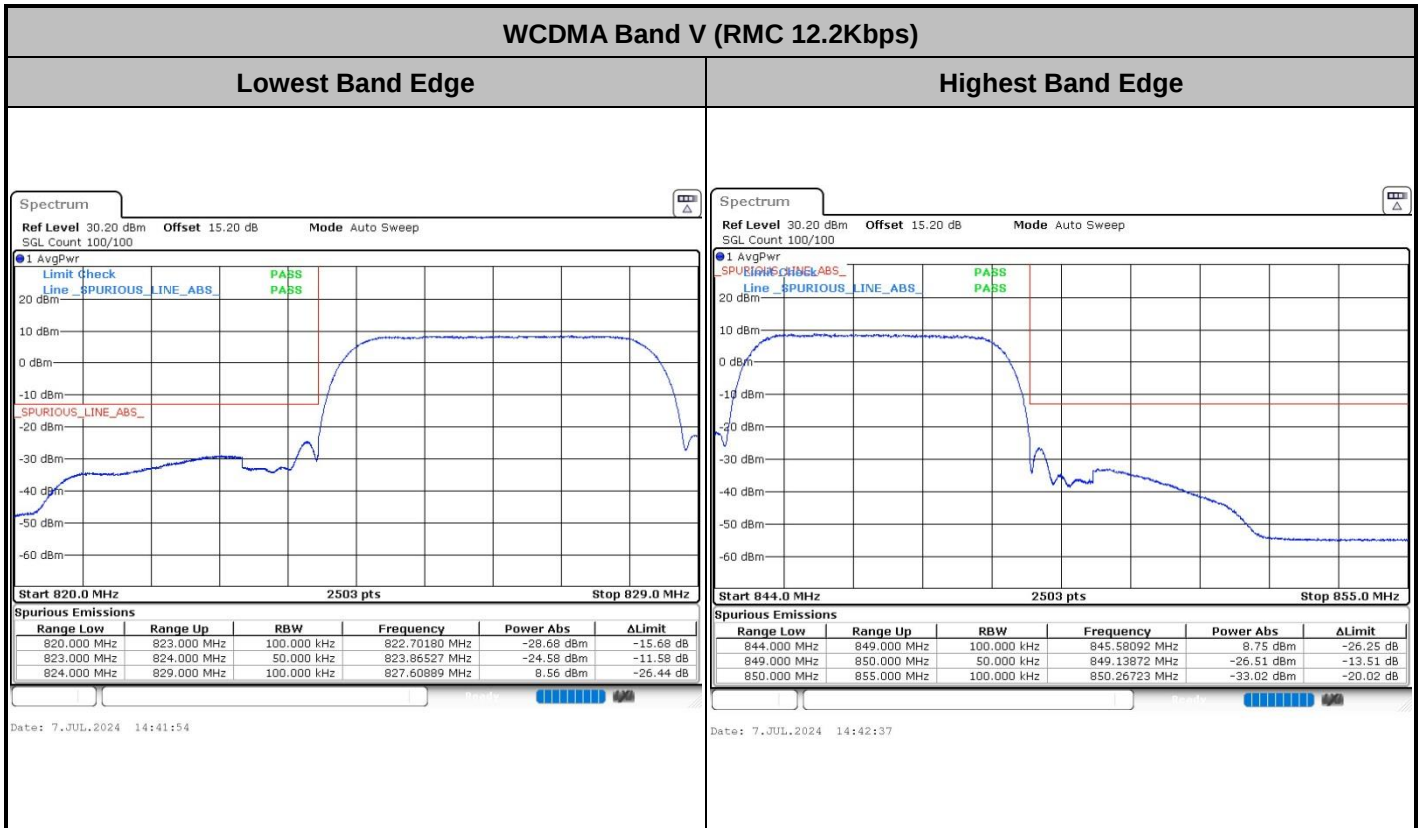
Highest Channel

-





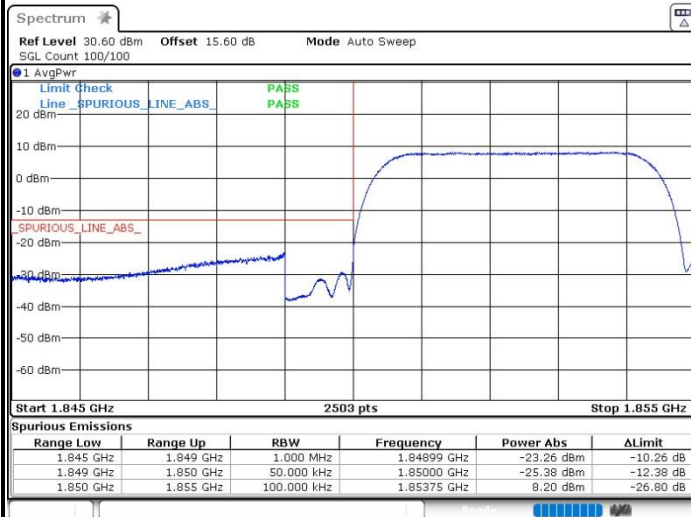
Conducted Band Edge





WCDMA Band II (RMC 12.2Kbps)

Lowest Band Edge



Highest Band Edge

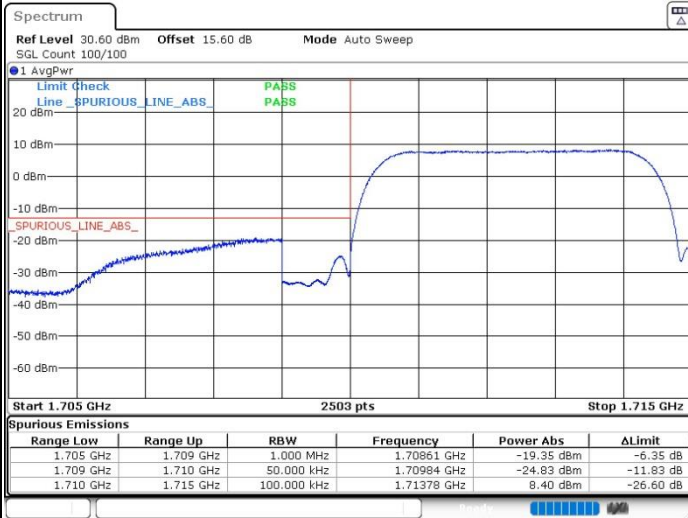




WCDMA Band IV (RMC 12.2Kbps)

Lowest Band Edge

Highest Band Edge



Date: 7.JUL.2024 12:51:05



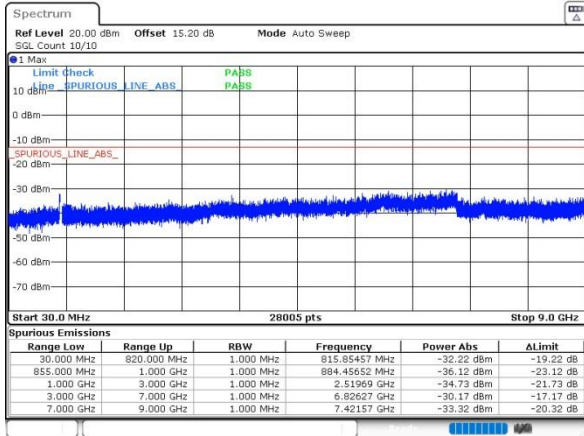
Date: 7.JUL.2024 12:51:42



Conducted Spurious Emission

WCDMA Band V (RMC 12.2Kbps)

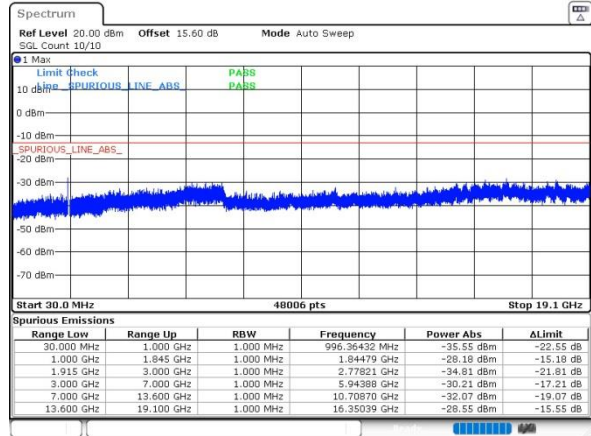
Lowest Channel



Date: 7.JUL.2024 14:43:08

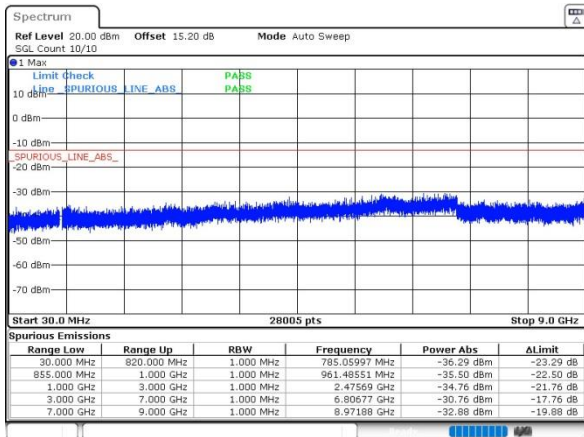
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



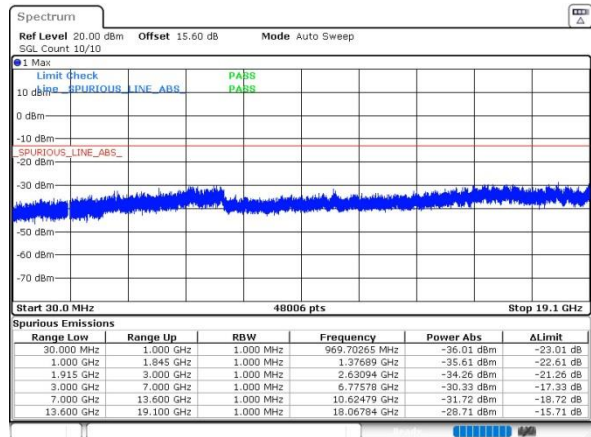
Date: 7.JUL.2024 11:45:40

Middle Channel



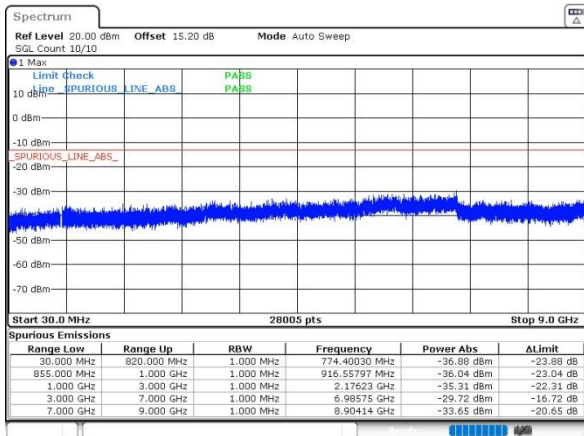
Date: 7.JUL.2024 14:43:17

Middle Channel



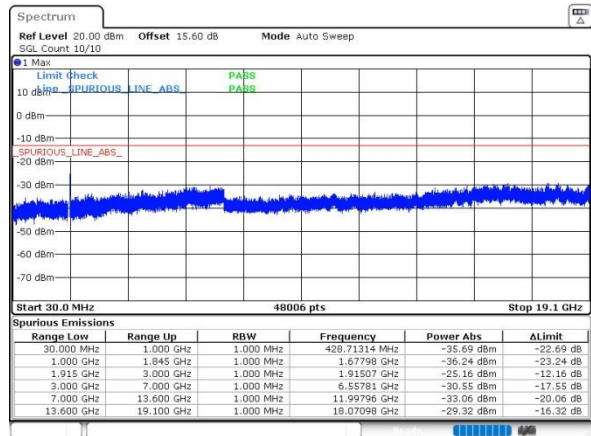
Date: 7.JUL.2024 11:45:49

Highest Channel



Date: 7.JUL.2024 14:43:27

Highest Channel

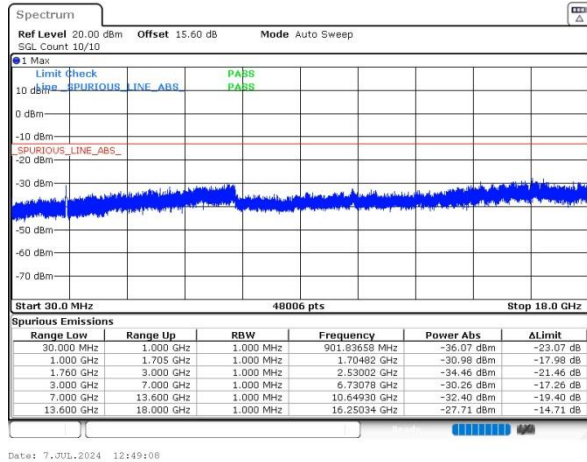


Date: 7.JUL.2024 11:45:59

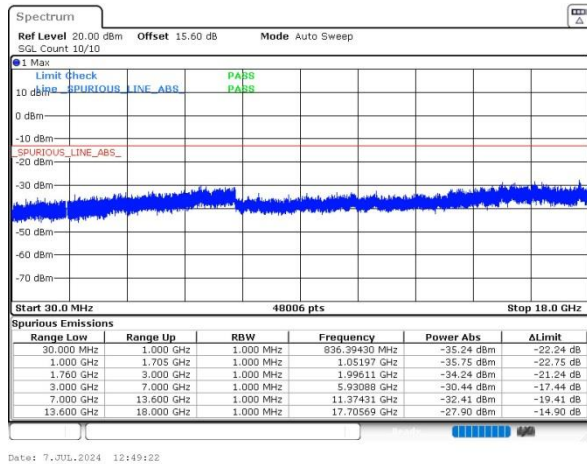


WCDMA Band IV (RMC 12.2Kbps)

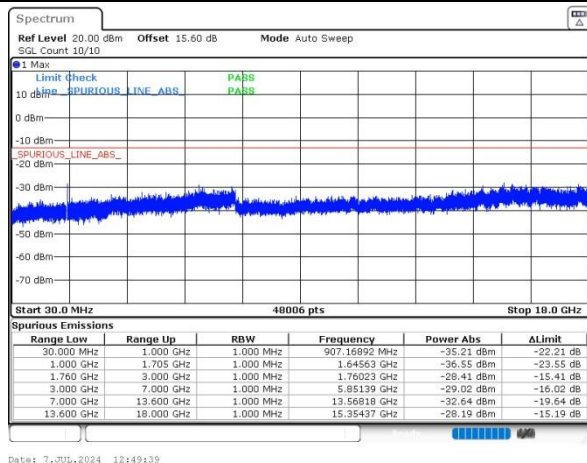
Lowest Channel



Middle Channel



Highest Channel



**Frequency Stability**

Test Conditions	Middle Channel	WCDMA Band V (RMC 12.2KbpsRMC 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	0.0169	PASS
40	Normal Voltage	0.0136	
30	Normal Voltage	0.0144	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0155	
0	Normal Voltage	0.0136	
-10	Normal Voltage	0.0247	
-20	Normal Voltage	0.0072	
-30	Normal Voltage	0.0169	
20	Maximum Voltage	0.0162	
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 = 3.85V ; Battery End Point (BEP) =3.5V. ; Maximum Voltage =4.41V
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 :	Bruce	Temperature :	23~25°C
		Relative Humidity :	41~42%

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

GSM850 (GSM) _Ant.0								
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)
Lowest	1648	-66.63	-13	-53.63	-73.60	1.58	10.70	H
	2472	-57.77	-13	-44.77	-66.02	2.102	12.50	H
	3296	-61.54	-13	-48.54	-70.43	2.856	13.90	H
	1648	-64.98	-13	-51.98	-71.95	1.58	10.70	V
	2472	-53.46	-13	-40.46	-61.71	2.10	12.50	V
	3296	-61.49	-13	-48.49	-70.38	2.86	13.90	V
Middle	1672	-65.30	-13	-52.30	-72.27	1.58	10.70	H
	2512	-58.05	-13	-45.05	-66.30	2.102	12.50	H
	3344	-61.56	-13	-48.56	-70.45	2.856	13.90	H
	1672	-63.96	-13	-50.96	-70.93	1.58	10.70	V
	2512	-60.20	-13	-47.20	-68.45	2.10	12.50	V
	3344	-61.61	-13	-48.61	-70.50	2.86	13.90	V
Highest	1696	-65.35	-13	-52.35	-72.32	1.58	10.70	H
	2544	-59.46	-13	-46.46	-67.71	2.102	12.50	H
	3392	-60.64	-13	-47.64	-69.53	2.856	13.90	H
	1696	-64.41	-13	-51.41	-71.38	1.58	10.70	V
	2544	-61.16	-13	-48.16	-69.41	2.10	12.50	V
	3392	-61.10	-13	-48.10	-69.99	2.86	13.90	V



GSM850 (EDGE 1 Tx slots) _Ant.0								
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)
Lowest	1648	-66.35	-13	-53.35	-73.32	1.58	10.70	H
	2472	-56.90	-13	-43.90	-65.15	2.102	12.50	H
	3296	-60.80	-13	-47.80	-69.69	2.856	13.90	H
	1648	-65.44	-13	-52.44	-72.41	1.58	10.70	V
	2472	-54.56	-13	-41.56	-62.81	2.10	12.50	V
	3296	-61.40	-13	-48.40	-70.29	2.86	13.90	V
Middle	1672	-65.23	-13	-52.23	-72.20	1.58	10.70	H
	2512	-57.15	-13	-44.15	-65.40	2.102	12.50	H
	3344	-61.55	-13	-48.55	-70.44	2.856	13.90	H
	1672	-63.82	-13	-50.82	-70.79	1.58	10.70	V
	2512	-60.72	-13	-47.72	-68.97	2.10	12.50	V
	3344	-61.51	-13	-48.51	-70.40	2.86	13.90	V
Highest	1696	-65.10	-13	-52.10	-72.07	1.58	10.70	H
	2544	-60.75	-13	-47.75	-69.00	2.102	12.50	H
	3392	-60.87	-13	-47.87	-69.76	2.856	13.90	H
	1696	-64.33	-13	-51.33	-71.30	1.58	10.70	V
	2544	-60.73	-13	-47.73	-68.98	2.10	12.50	V
	3392	-60.72	-13	-47.72	-69.61	2.86	13.90	V



GSM1900 (GSM) _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)
Lowest	3705	-56.89	-13	-43.89	-69.15	2.64	14.90	H
	5550	-56.31	-13	-43.31	-68.17	2.94	14.80	H
	7395	-55.38	-13	-42.38	-65.15	3.39	13.16	H
	3705	-55.51	-13	-42.51	-67.77	2.64	14.90	V
	5550	-55.36	-13	-42.36	-67.22	2.94	14.80	V
	7395	-55.19	-13	-42.19	-64.96	3.39	13.16	V
Middle	3765	-56.77	-13	-43.77	-69.03	2.64	14.90	H
	5640	-56.04	-13	-43.04	-67.90	2.94	14.80	H
	7515	-54.83	-13	-41.83	-64.60	3.39	13.16	H
	3765	-56.55	-13	-43.55	-68.81	2.64	14.90	V
	5640	-56.35	-13	-43.35	-68.21	2.94	14.80	V
	7515	-54.94	-13	-41.94	-64.71	3.39	13.16	V
Highest	3825	-56.72	-13	-43.72	-68.98	2.64	14.90	H
	5730	-55.98	-13	-42.98	-67.84	2.94	14.80	H
	7635	-54.23	-13	-41.23	-64.00	3.39	13.16	H
	3825	-56.47	-13	-43.47	-68.73	2.64	14.90	V
	5730	-56.20	-13	-43.20	-68.06	2.94	14.80	V
	7635	-54.18	-13	-41.18	-63.95	3.39	13.16	V

GSM1900 (EDGE 1 Tx slots) _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)
Lowest	3705	-55.69	-13	-42.69	-67.95	2.64	14.90	H
	5550	-55.45	-13	-42.45	-67.31	2.94	14.80	H
	7395	-55.31	-13	-42.31	-65.08	3.39	13.16	H
	3705	-56.90	-13	-43.90	-69.16	2.64	14.90	V
	5550	-56.09	-13	-43.09	-67.95	2.94	14.80	V
	7395	-55.47	-13	-42.47	-65.24	3.39	13.16	V
Middle	3765	-54.45	-13	-41.45	-66.71	2.64	14.90	H
	5640	-55.70	-13	-42.70	-67.56	2.94	14.80	H
	7515	-54.87	-13	-41.87	-64.64	3.39	13.16	H
	3765	-56.52	-13	-43.52	-68.78	2.64	14.90	V
	5640	-56.15	-13	-43.15	-68.01	2.94	14.80	V
	7515	-54.74	-13	-41.74	-64.51	3.39	13.16	V
Highest	3825	-54.41	-13	-41.41	-66.67	2.64	14.90	H
	5730	-55.71	-13	-42.71	-67.57	2.94	14.80	H
	7635	-53.94	-13	-40.94	-63.71	3.39	13.16	H
	3825	-56.56	-13	-43.56	-68.82	2.64	14.90	V
	5730	-55.98	-13	-42.98	-67.84	2.94	14.80	V
	7635	-53.98	-13	-40.98	-63.75	3.39	13.16	V



WCDMA Band V(RMC 12.2Kbps)_Ant.0								
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)
Lowest	1656	-65.60	-13	-52.60	-72.57	1.58	10.70	H
	2472	-58.62	-13	-45.62	-66.87	2.102	12.50	H
	3304	-61.28	-13	-48.28	-70.17	2.856	13.90	H
	1656	-65.14	-13	-52.14	-72.11	1.58	10.70	V
	2472	-59.02	-13	-46.02	-67.27	2.10	12.50	V
	3304	-61.33	-13	-48.33	-70.22	2.86	13.90	V
Middle	1672	-64.66	-13	-51.66	-71.63	1.58	10.70	H
	2512	-61.87	-13	-48.87	-70.12	2.102	12.50	H
	3344	-61.48	-13	-48.48	-70.37	2.856	13.90	H
	1672	-64.38	-13	-51.38	-71.35	1.58	10.70	V
	2512	-60.90	-13	-47.90	-69.15	2.10	12.50	V
	3344	-61.47	-13	-48.47	-70.36	2.86	13.90	V
Highest	1696	-65.04	-13	-52.04	-72.01	1.58	10.70	H
	2536	-61.34	-13	-48.34	-69.59	2.102	12.50	H
	3384	-60.57	-13	-47.57	-69.46	2.856	13.90	H
	1696	-64.43	-13	-51.43	-71.40	1.58	10.70	V
	2536	-60.55	-13	-47.55	-68.80	2.10	12.50	V
	3384	-60.79	-13	-47.79	-69.68	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)_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)
Lowest	3705	-56.13	-13	-43.13	-68.39	2.64	14.90	H
	5550	-55.45	-13	-42.45	-67.31	2.94	14.80	H
	7410	-55.19	-13	-42.19	-64.96	3.39	13.16	H
	3705	-55.71	-13	-42.71	-67.97	2.64	14.90	V
	5550	-55.48	-13	-42.48	-67.34	2.94	14.80	V
	7410	-55.22	-13	-42.22	-64.99	3.39	13.16	V
Middle	3765	-55.88	-13	-42.88	-68.14	2.64	14.90	H
	5640	-55.53	-13	-42.53	-67.39	2.94	14.80	H
	7515	-54.89	-13	-41.89	-64.66	3.39	13.16	H
	3765	-55.97	-13	-42.97	-68.23	2.64	14.90	V
	5640	-55.71	-13	-42.71	-67.57	2.94	14.80	V
	7515	-54.27	-13	-41.27	-64.04	3.39	13.16	V
Highest	3810	-56.32	-13	-43.32	-68.58	2.64	14.90	H
	5730	-55.34	-13	-42.34	-67.20	2.94	14.80	H
	7635	-53.56	-13	-40.56	-63.33	3.39	13.16	H
	3810	-55.90	-13	-42.90	-68.16	2.64	14.90	V
	5730	-55.50	-13	-42.50	-67.36	2.94	14.80	V
	7635	-53.84	-13	-40.84	-63.61	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)_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)
Lowest	3420	-49.47	-13	-36.47	-60.21	2.604	13.34	H
	5130	-54.88	-13	-41.88	-65.39	3.011	13.52	H
	6855	-56.27	-13	-43.27	-66.47	3.271	13.47	H
	3420	-46.83	-13	-33.83	-57.57	2.604	13.34	V
	5130	-54.86	-13	-41.86	-65.37	3.011	13.52	V
	6855	-56.25	-13	-43.25	-66.45	3.271	13.47	V
Middle	3465	-57.30	-13	-44.30	-68.04	2.604	13.34	H
	5205	-54.90	-13	-41.90	-65.41	3.011	13.52	H
	6930	-55.79	-13	-42.79	-65.99	3.271	13.47	H
	3465	-58.02	-13	-45.02	-68.76	2.604	13.34	V
	5205	-55.35	-13	-42.35	-65.86	3.011	13.52	V
	6930	-56.21	-13	-43.21	-66.41	3.271	13.47	V
Highest	3510	-58.17	-13	-45.17	-68.91	2.604	13.34	H
	5265	-55.79	-13	-42.79	-66.30	3.011	13.52	H
	7005	-55.74	-13	-42.74	-65.94	3.271	13.47	H
	3510	-58.06	-13	-45.06	-68.80	2.604	13.34	V
	5265	-55.49	-13	-42.49	-66.00	3.011	13.52	V
	7005	-55.93	-13	-42.93	-66.13	3.271	13.47	V

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