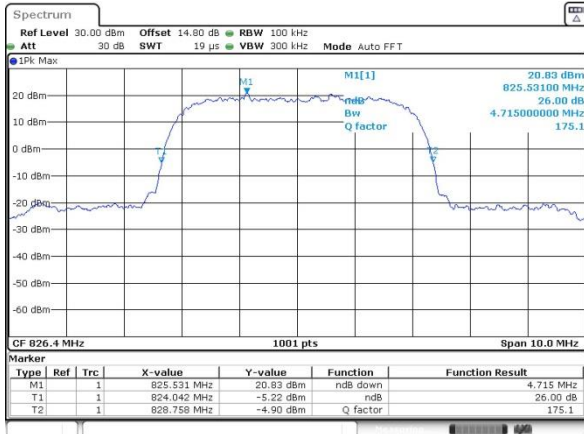




WCDMA Band V (RMC 12.2Kbps)

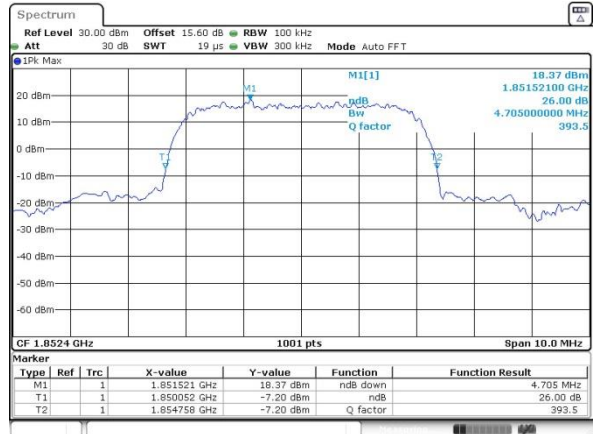
Lowest Channel



Date: 12 JUN 2024 06:38:03

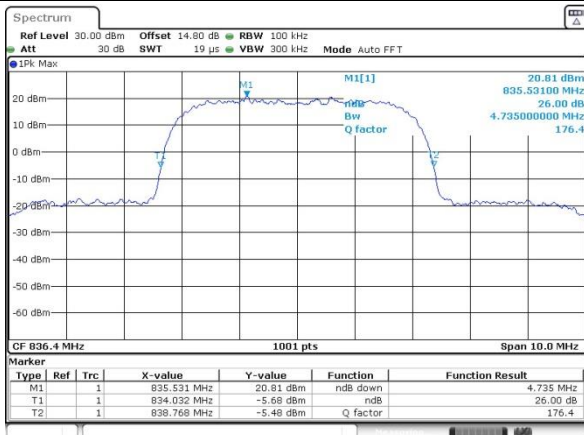
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



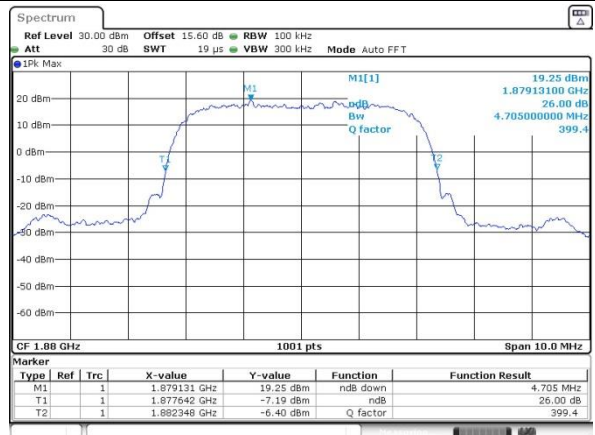
Date: 12 JUN 2024 07:11:52

Middle Channel



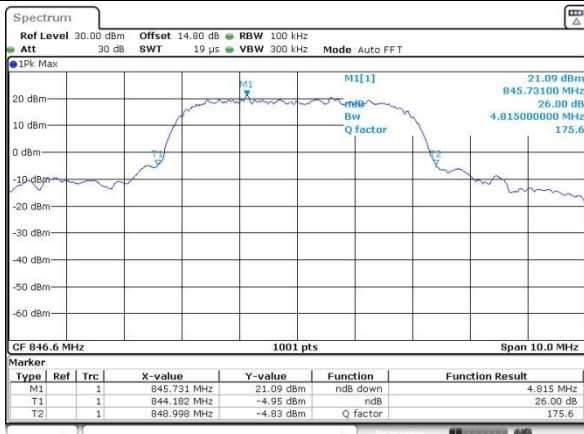
Date: 12 JUN 2024 06:38:34

Middle Channel



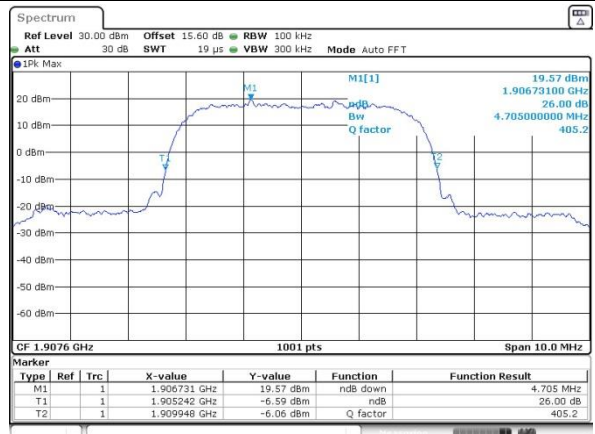
Date: 12 JUN 2024 07:12:14

Highest Channel



Date: 12 JUN 2024 06:38:58

Highest Channel

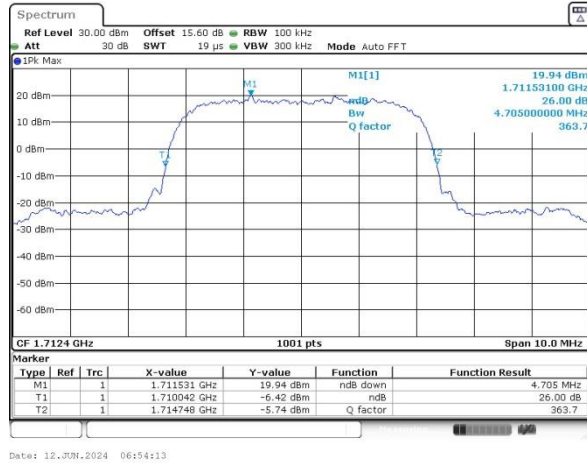


Date: 12 JUN 2024 07:12:35

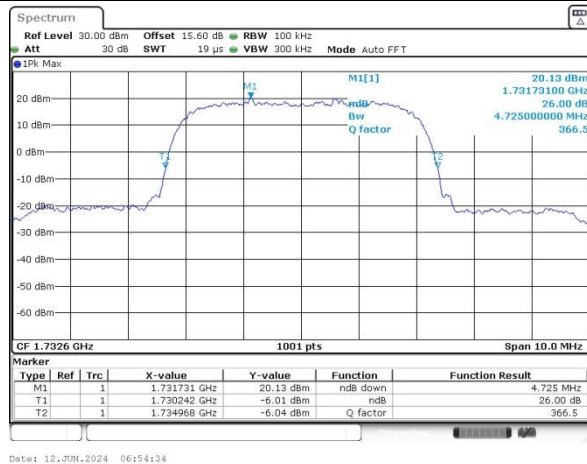


WCDMA Band IV (RMC 12.2Kbps)

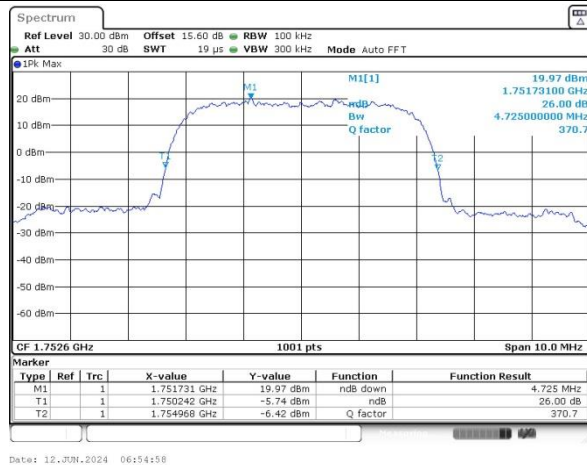
Lowest Channel



Middle Channel



Highest Channel





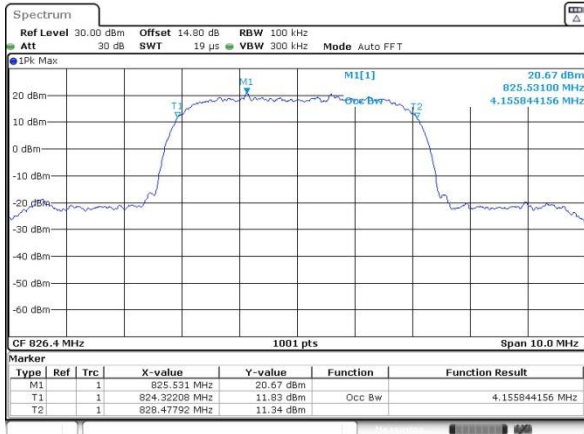
Occupied Bandwidth

Mode	WCDMA Band V	WCDMA Band II	WCDMA Band IV
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.156	4.156	4.166
Middle CH	4.166	4.146	4.156
Highest CH	4.176	4.146	4.156



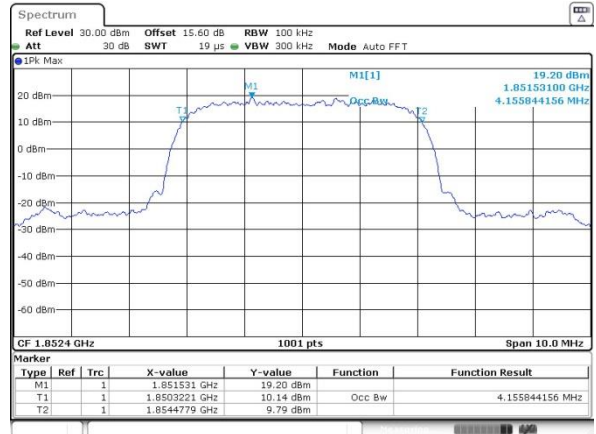
WCDMA Band V (RMC 12.2Kbps)

Lowest Channel

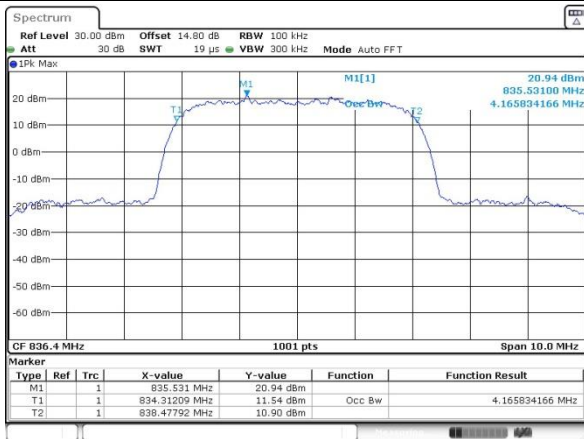


WCDMA Band II (RMC 12.2Kbps)

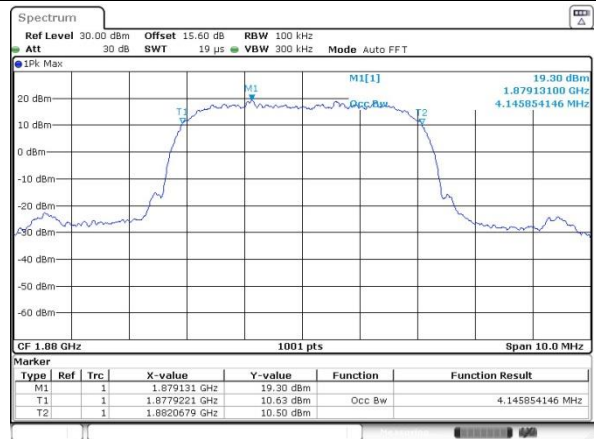
Lowest Channel



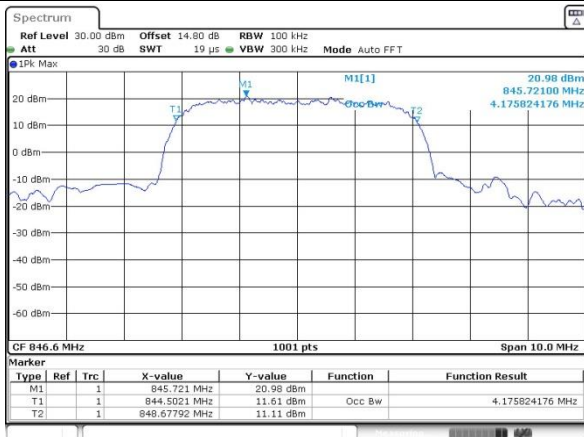
Middle Channel



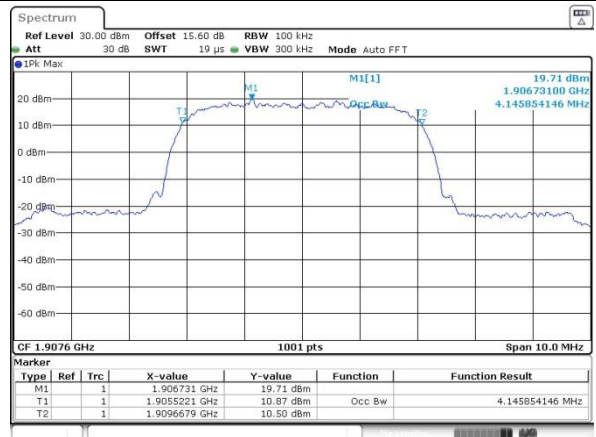
Middle Channel



Highest Channel

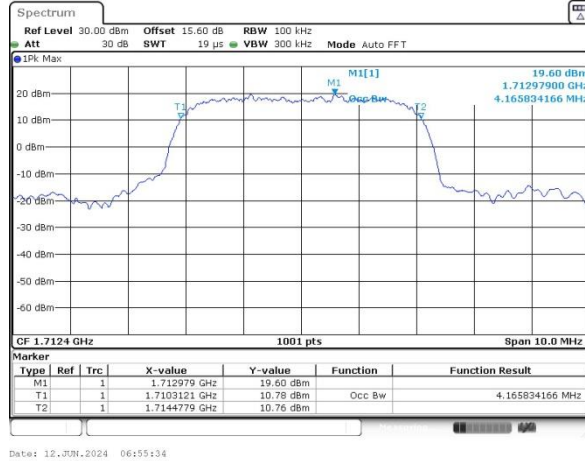


Highest Channel

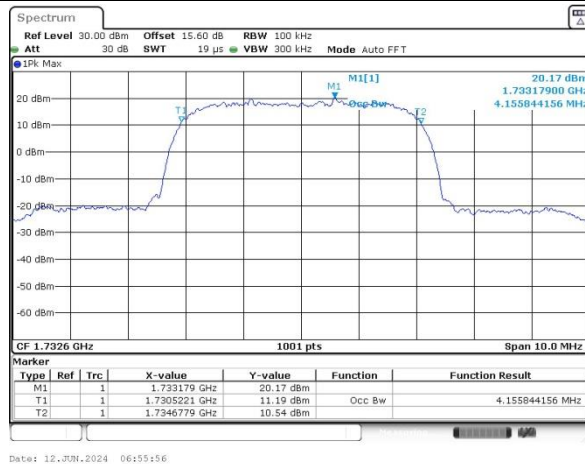


WCDMA Band IV (RMC 12.2Kbps)

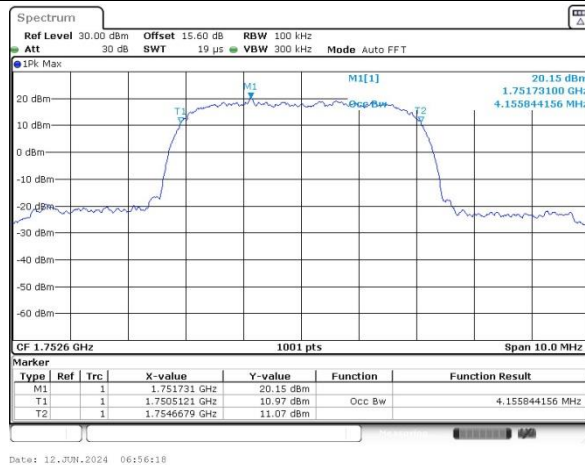
Lowest Channel



Middle Channel



Highest Channel

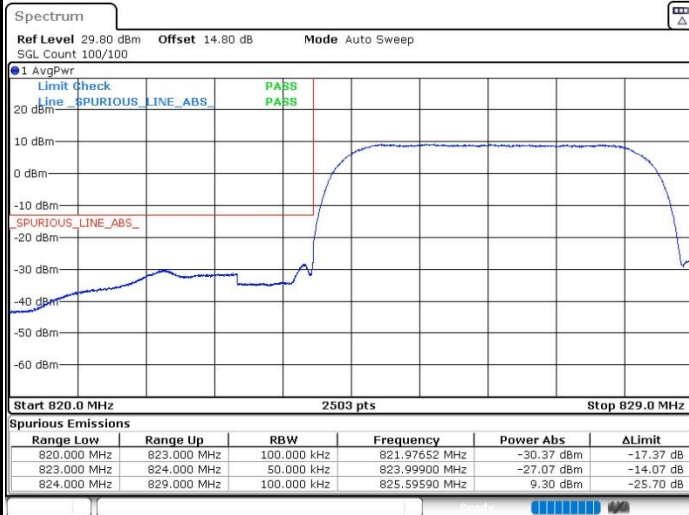




Conducted Band Edge

WCDMA Band V (RMC 12.2Kbps)

Lowest Band Edge

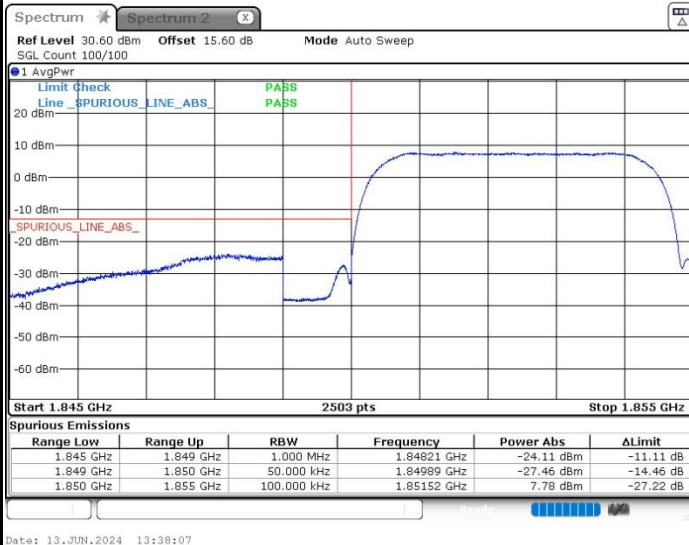


Highest Band Edge

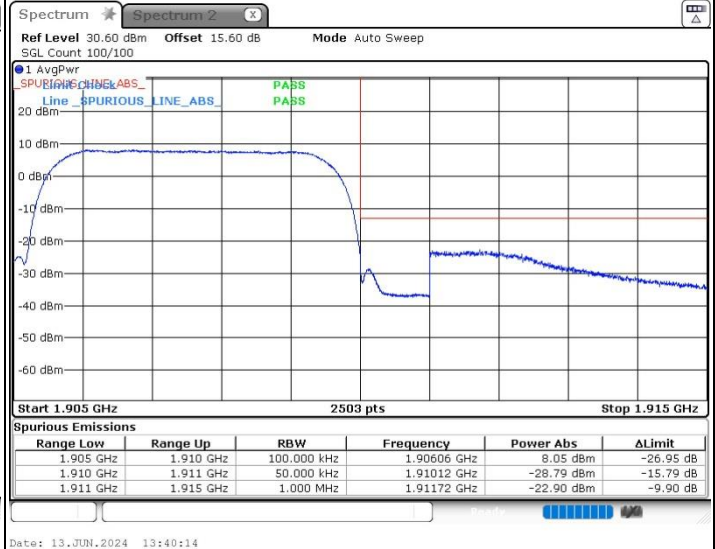


WCDMA Band II (RMC 12.2Kbps)

Lowest Band Edge



Highest Band Edge

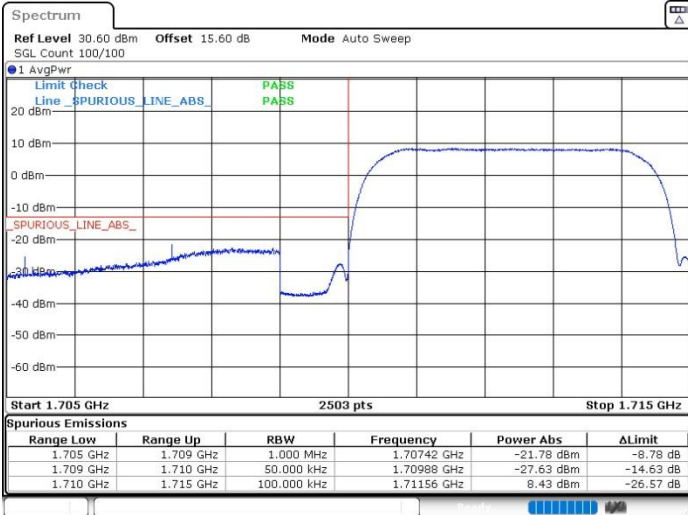




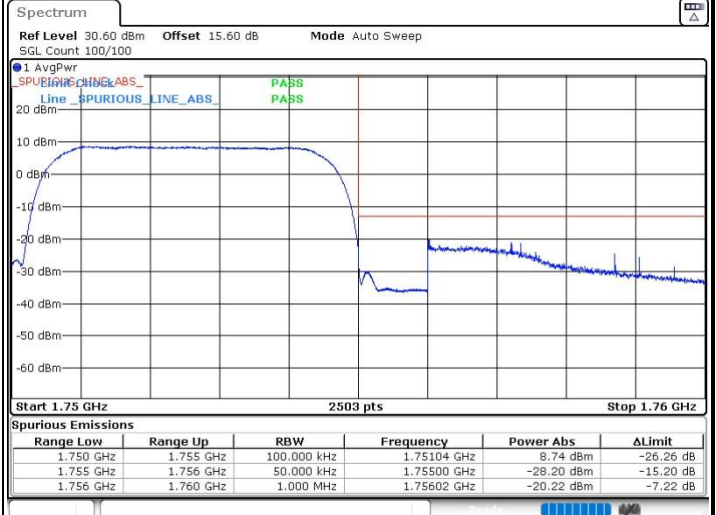
WCDMA Band IV (RMC 12.2Kbps)

Lowest Band Edge

Highest Band Edge



Date: 12.JUN.2024 06:58:17



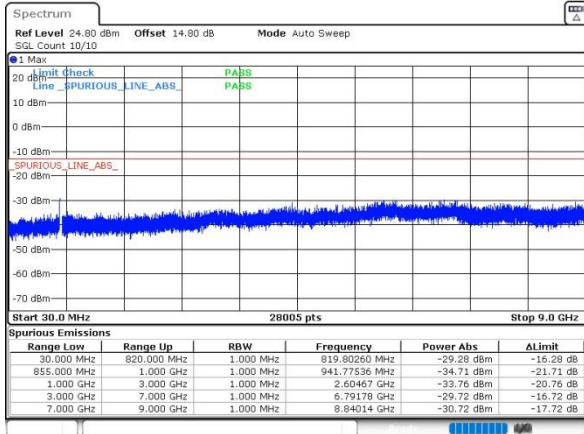
Date: 12.JUN.2024 06:59:48



Conducted Spurious Emission

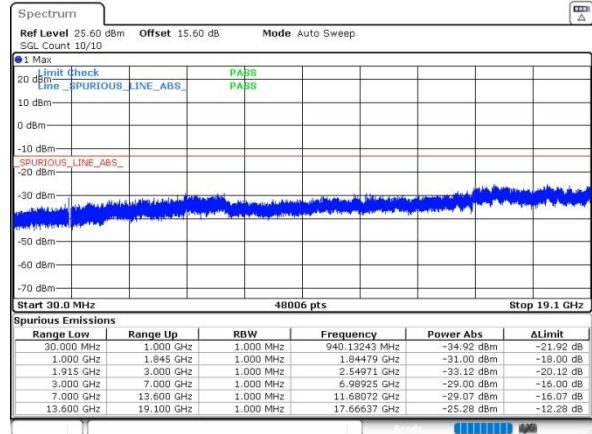
WCDMA Band V (RMC 12.2Kbps)

Lowest Channel

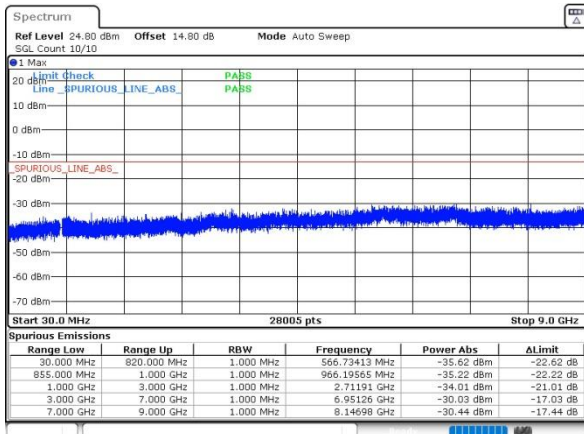


WCDMA Band II (RMC 12.2Kbps)

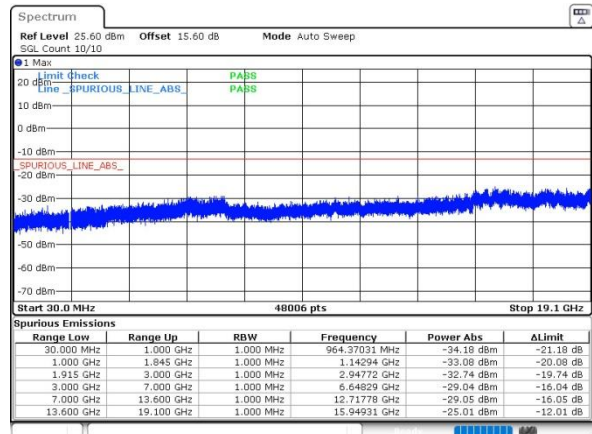
Lowest Channel



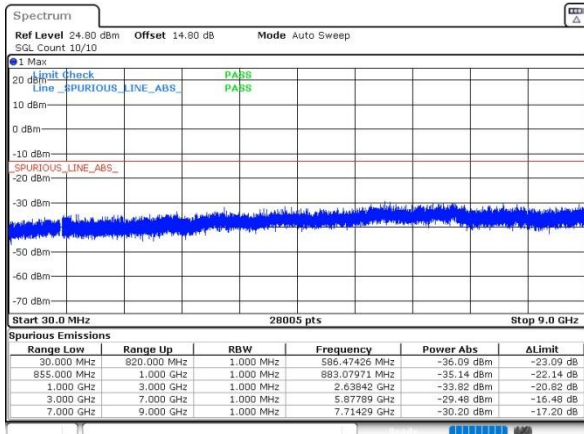
Middle Channel



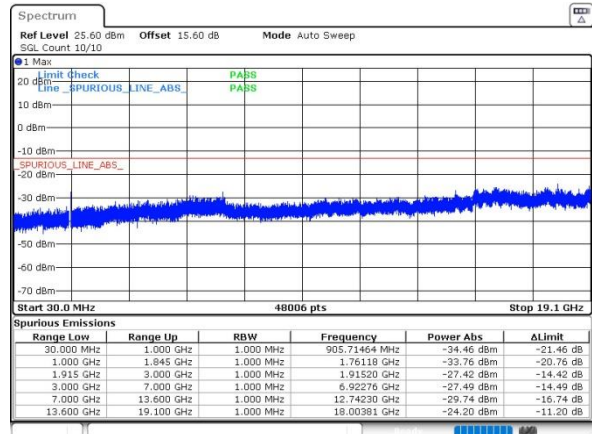
Middle Channel



Highest Channel



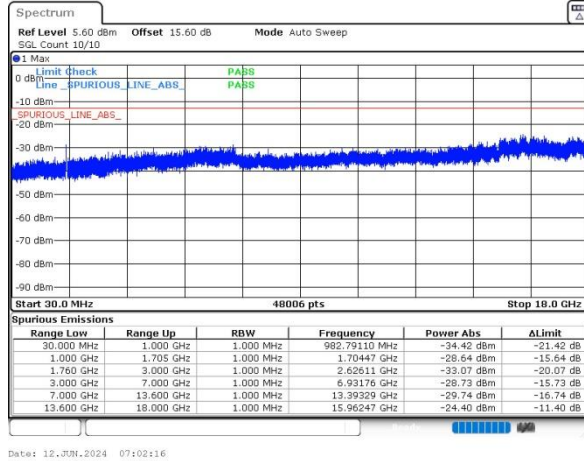
Highest Channel



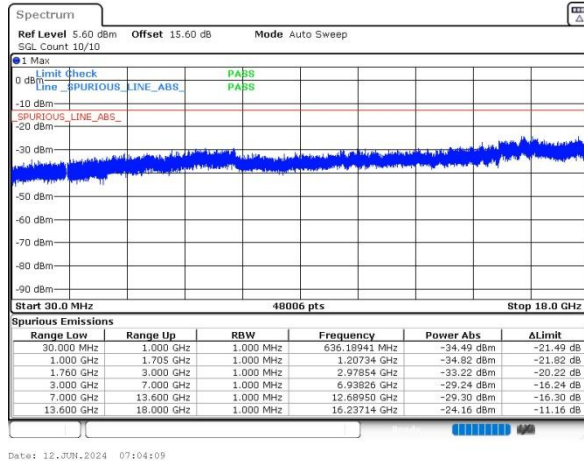


WCDMA Band IV (RMC 12.2Kbps)

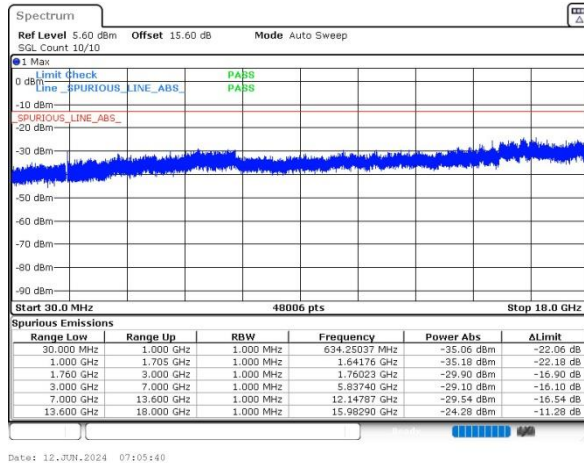
Lowest Channel



Middle Channel



Highest Channel



**Frequency Stability**

Test Conditions	Middle Channel	WCDMA Band V (RMC 12.2Kbps)	Limit
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	2.5ppm Result
50	Normal Voltage	0.0022	PASS
40	Normal Voltage	0.0359	
30	Normal Voltage	0.0466	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0022	
0	Normal Voltage	0.0327	
-10	Normal Voltage	0.0469	
-20	Normal Voltage	0.0153	
-30	Normal Voltage	0.0312	
20	Maximum Voltage	0.0407	
20	Normal Voltage	0.0106	
20	Minimum Voltage	0.0048	

Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Note 2. Result
50	Normal Voltage	0.0164	PASS
40	Normal Voltage	0.0159	
30	Normal Voltage	0.0142	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0106	
0	Normal Voltage	0.0197	
-10	Normal Voltage	0.0357	
-20	Normal Voltage	0.0017	
-30	Normal Voltage	0.0113	
20	Maximum Voltage	0.0142	
20	Normal Voltage	0.0199	
20	Minimum Voltage	0.0338	



Test Conditions	Middle Channel	WCDMA Band IV (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0077	PASS
40	Normal Voltage	0.0167	
30	Normal Voltage	0.0053	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0072	
0	Normal Voltage	0.0374	
-10	Normal Voltage	0.0149	
-20	Normal Voltage	0.0671	
-30	Normal Voltage	0.0058	
20	Maximum Voltage	0.0066	
20	Normal Voltage	0.0071	
20	Minimum Voltage	0.0143	

Note:

1. Normal Voltage = 5V ; Minimum Voltage =4.6V. ; Maximum Voltage =5.5V
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%

GSM850 (GPRS 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)
Lowest	1648	-56.02	-13	-43.02	-62.99	1.58	10.70	H
	2472	-47.31	-13	-34.31	-55.56	2.102	12.50	H
	3296	-54.90	-13	-41.90	-63.79	2.856	13.90	H
	4120	-53.69	-13	-40.69	-62.15	2.689	13.30	H
	4944	-52.58	-13	-39.58	-60.34	3.093	13.00	H
	1648	-54.46	-13	-41.46	-61.43	1.58	10.70	V
	2472	-46.62	-13	-33.62	-54.87	2.10	12.50	V
	3296	-60.62	-13	-47.62	-69.51	2.86	13.90	V
	4120	-57.32	-13	-44.32	-65.78	2.69	13.30	V
	4944	-55.11	-13	-42.11	-62.87	3.09	13.00	V
Middle	1672	-48.80	-13	-35.80	-55.77	1.58	10.70	H
	2512	-41.90	-13	-28.90	-50.15	2.102	12.50	H
	3344	-52.78	-13	-39.78	-61.67	2.856	13.90	H
	4184	-58.97	-13	-45.97	-67.43	2.689	13.30	H
	5016	-51.96	-13	-38.96	-59.72	3.093	13.00	H
	1672	-54.08	-13	-41.08	-61.05	1.58	10.70	V
	2512	-46.94	-13	-33.94	-55.19	2.10	12.50	V
	3344	-59.10	-13	-46.10	-67.99	2.86	13.90	V
	4184	-61.77	-13	-48.77	-70.23	2.69	13.30	V
	5016	-54.10	-13	-41.10	-61.86	3.09	13.00	V
Highest	1696	-47.30	-13	-34.30	-54.27	1.58	10.70	H
	2544	-43.38	-13	-30.38	-51.63	2.102	12.50	H
	3392	-49.12	-13	-36.12	-58.01	2.856	13.90	H
	4240	-58.58	-13	-45.58	-67.04	2.689	13.30	H
	5096	-52.76	-13	-39.76	-60.52	3.093	13.00	H
	1696	-47.66	-13	-34.66	-54.63	1.58	10.70	V
	2544	-41.47	-13	-28.47	-49.72	2.10	12.50	V
	3392	-58.63	-13	-45.63	-67.52	2.86	13.90	V
	4240	-60.75	-13	-47.75	-69.21	2.69	13.30	V
	5096	-54.45	-13	-41.45	-62.21	3.09	13.00	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)
Lowest	1648	-54.84	-13	-41.84	-61.81	1.58	10.70	H
	2472	-47.53	-13	-34.53	-55.78	2.102	12.50	H
	3296	-57.08	-13	-44.08	-65.97	2.856	13.90	H
	4120	-54.43	-13	-41.43	-62.89	2.689	13.30	H
	4944	-51.37	-13	-38.37	-59.13	3.093	13.00	H
	1648	-54.01	-13	-41.01	-60.98	1.58	10.70	V
	2472	-43.93	-13	-30.93	-52.18	2.10	12.50	V
	3296	-61.22	-13	-48.22	-70.11	2.86	13.90	V
	4120	-59.03	-13	-46.03	-67.49	2.69	13.30	V
	4944	-55.96	-13	-42.96	-63.72	3.09	13.00	V
Middle	1672	-52.07	-13	-39.07	-59.04	1.58	10.70	H
	2512	-53.14	-13	-40.14	-61.39	2.102	12.50	H
	3344	-55.54	-13	-42.54	-64.43	2.856	13.90	H
	4184	-57.38	-13	-44.38	-65.84	2.689	13.30	H
	5016	-50.31	-13	-37.31	-58.07	3.093	13.00	H
	1672	-55.25	-13	-42.25	-62.22	1.58	10.70	V
	2512	-48.40	-13	-35.40	-56.65	2.10	12.50	V
	3344	-60.61	-13	-47.61	-69.50	2.86	13.90	V
	4184	-60.61	-13	-47.61	-69.07	2.69	13.30	V
	5016	-54.30	-13	-41.30	-62.06	3.09	13.00	V
Highest	1696	-50.68	-13	-37.68	-57.65	1.58	10.70	H
	2544	-39.40	-13	-26.40	-47.65	2.102	12.50	H
	3392	-54.13	-13	-41.13	-63.02	2.856	13.90	H
	4240	-56.35	-13	-43.35	-64.81	2.689	13.30	H
	5096	-51.61	-13	-38.61	-59.37	3.093	13.00	H
	1696	-52.35	-13	-39.35	-59.32	1.58	10.70	V
	2544	-38.87	-13	-25.87	-47.12	2.10	12.50	V
	3392	-60.06	-13	-47.06	-68.95	2.86	13.90	V
	4240	-56.65	-13	-43.65	-65.11	2.69	13.30	V
	5096	-52.76	-13	-39.76	-60.52	3.09	13.00	V

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



GSM1900 (GPRS 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)
Lowest	3705	-55.75	-13	-42.75	-68.01	2.64	14.90	H
	5550	-58.91	-13	-45.91	-70.77	2.94	14.80	H
	7395	-57.09	-13	-44.09	-66.86	3.39	13.16	H
	3705	-54.72	-13	-41.72	-66.98	2.64	14.90	V
	5550	-58.67	-13	-45.67	-70.53	2.94	14.80	V
	7395	-57.01	-13	-44.01	-66.78	3.39	13.16	V
Middle	3765	-59.47	-13	-46.47	-71.73	2.64	14.90	H
	5640	-58.58	-13	-45.58	-70.44	2.94	14.80	H
	7515	-56.23	-13	-43.23	-66.00	3.39	13.16	H
	3765	-56.76	-13	-43.76	-69.02	2.64	14.90	V
	5640	-59.20	-13	-46.20	-71.06	2.94	14.80	V
	7515	-56.21	-13	-43.21	-65.98	3.39	13.16	V
Highest	3825	-58.64	-13	-45.64	-70.90	2.64	14.90	H
	5730	-58.15	-13	-45.15	-70.01	2.94	14.80	H
	7635	-55.90	-13	-42.90	-65.67	3.39	13.16	H
	3825	-57.94	-13	-44.94	-70.20	2.64	14.90	V
	5730	-58.81	-13	-45.81	-70.67	2.94	14.80	V
	7635	-55.81	-13	-42.81	-65.58	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)
Lowest	3705	-52.98	-13	-39.98	-65.24	2.64	14.90	H
	5550	-54.95	-13	-41.95	-66.81	2.94	14.80	H
	7395	-56.24	-13	-43.24	-66.01	3.39	13.16	H
	3705	-54.80	-13	-41.80	-67.06	2.64	14.90	V
	5550	-56.22	-13	-43.22	-68.08	2.94	14.80	V
	7395	-56.36	-13	-43.36	-66.13	3.39	13.16	V
Middle	3765	-53.94	-13	-40.94	-66.20	2.64	14.90	H
	5640	-56.53	-13	-43.53	-68.39	2.94	14.80	H
	7515	-56.21	-13	-43.21	-65.98	3.39	13.16	H
	3765	-54.86	-13	-41.86	-67.12	2.64	14.90	V
	5640	-57.35	-13	-44.35	-69.21	2.94	14.80	V
	7515	-56.32	-13	-43.32	-66.09	3.39	13.16	V
Highest	3825	-54.05	-13	-41.05	-66.31	2.64	14.90	H
	5730	-53.73	-13	-40.73	-65.59	2.94	14.80	H
	7635	-56.00	-13	-43.00	-65.77	3.39	13.16	H
	3825	-54.92	-13	-41.92	-67.18	2.64	14.90	V
	5730	-55.66	-13	-42.66	-67.52	2.94	14.80	V
	7635	-55.48	-13	-42.48	-65.25	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)
Lowest	1656	-65.76	-13	-52.76	-72.73	1.58	10.70	H
	2480	-59.28	-13	-46.28	-67.53	2.102	12.50	H
	3304	-60.86	-13	-47.86	-69.75	2.856	13.90	H
	1656	-64.74	-13	-51.74	-71.71	1.58	10.70	V
	2480	-59.73	-13	-46.73	-67.98	2.10	12.50	V
	3304	-61.18	-13	-48.18	-70.07	2.86	13.90	V
Middle	1672	-64.53	-13	-51.53	-71.50	1.58	10.70	H
	2512	-60.64	-13	-47.64	-68.89	2.102	12.50	H
	3344	-60.99	-13	-47.99	-69.88	2.856	13.90	H
	1672	-63.70	-13	-50.70	-70.67	1.58	10.70	V
	2512	-60.02	-13	-47.02	-68.27	2.10	12.50	V
	3344	-60.99	-13	-47.99	-69.88	2.86	13.90	V
Highest	1696	-65.16	-13	-52.16	-72.13	1.58	10.70	H
	2536	-60.87	-13	-47.87	-69.12	2.102	12.50	H
	3384	-60.17	-13	-47.17	-69.06	2.856	13.90	H
	1696	-63.69	-13	-50.69	-70.66	1.58	10.70	V
	2536	-60.47	-13	-47.47	-68.72	2.10	12.50	V
	3384	-60.31	-13	-47.31	-69.20	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)
Lowest	3705	-56.94	-13	-43.94	-69.20	2.64	14.90	H
	5550	-56.64	-13	-43.64	-68.50	2.94	14.80	H
	7410	-54.52	-13	-41.52	-64.29	3.39	13.16	H
	3705	-56.76	-13	-43.76	-69.02	2.64	14.90	V
	5550	-56.52	-13	-43.52	-68.38	2.94	14.80	V
	7410	-54.56	-13	-41.56	-64.33	3.39	13.16	V
Middle	3765	-57.41	-13	-44.41	-69.67	2.64	14.90	H
	5640	-55.82	-13	-42.82	-67.68	2.94	14.80	H
	7515	-53.76	-13	-40.76	-63.53	3.39	13.16	H
	3765	-57.25	-13	-44.25	-69.51	2.64	14.90	V
	5640	-56.73	-13	-43.73	-68.59	2.94	14.80	V
	7515	-54.09	-13	-41.09	-63.86	3.39	13.16	V
Highest	3810	-57.64	-13	-44.64	-69.90	2.64	14.90	H
	5730	-56.31	-13	-43.31	-68.17	2.94	14.80	H
	7635	-53.92	-13	-40.92	-63.69	3.39	13.16	H
	3810	-57.37	-13	-44.37	-69.63	2.64	14.90	V
	5730	-56.35	-13	-43.35	-68.21	2.94	14.80	V
	7635	-53.81	-13	-40.81	-63.58	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)
Lowest	3420	-49.24	-13	-36.24	-59.98	2.604	13.34	H
	5130	-55.81	-13	-42.81	-66.32	3.011	13.52	H
	6855	-55.29	-13	-42.29	-65.49	3.271	13.47	H
	3420	-58.14	-13	-45.14	-68.88	2.604	13.34	V
	5130	-55.29	-13	-42.29	-65.80	3.011	13.52	V
	6855	-55.55	-13	-42.55	-65.75	3.271	13.47	V
Middle	3465	-57.65	-13	-44.65	-68.39	2.604	13.34	H
	5205	-55.90	-13	-42.90	-66.41	3.011	13.52	H
	6930	-55.95	-13	-42.95	-66.15	3.271	13.47	H
	3465	-57.89	-13	-44.89	-68.63	2.604	13.34	V
	5205	-55.72	-13	-42.72	-66.23	3.011	13.52	V
	6930	-55.99	-13	-42.99	-66.19	3.271	13.47	V
Highest	3510	-57.79	-13	-44.79	-68.53	2.604	13.34	H
	5265	-55.90	-13	-42.90	-66.41	3.011	13.52	H
	7005	-55.54	-13	-42.54	-65.74	3.271	13.47	H
	3510	-57.94	-13	-44.94	-68.68	2.604	13.34	V
	5265	-55.34	-13	-42.34	-65.85	3.011	13.52	V
	7005	-55.03	-13	-42.03	-65.23	3.271	13.47	V

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