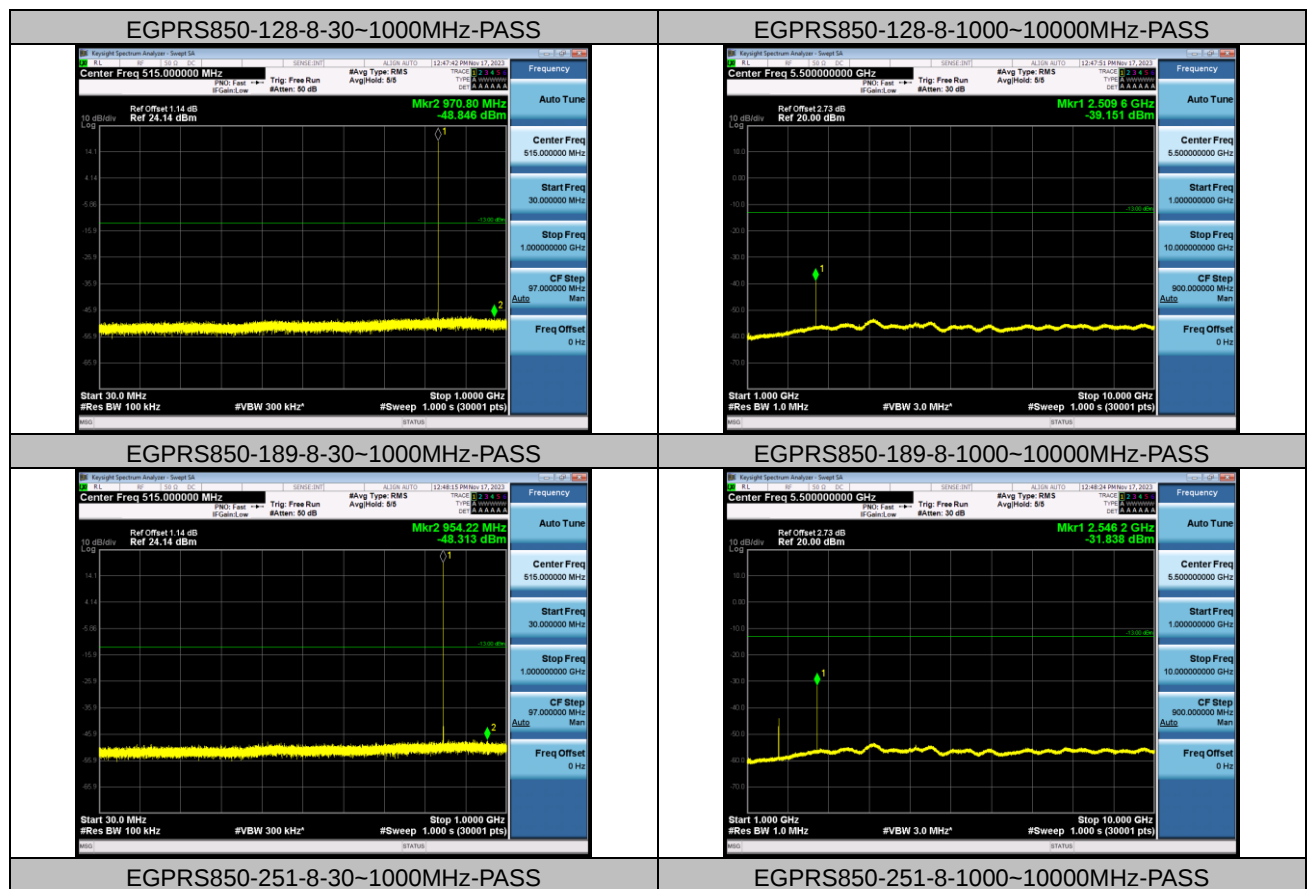




BUREAU
VERITAS

Test Report No.: W7L-P23100008RF04



FREQUENCY STABILITY

Test Result

Voltage							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	VN	NT	7.85	0.009524	±2.5	PASS
GSM850	128	VL	NT	7.07	0.008578	±2.5	PASS
GSM850	128	VH	NT	2.74	0.003324	±2.5	PASS
GSM850	189	VN	NT	9.30	0.011119	±2.5	PASS
GSM850	189	VL	NT	11.11	0.013283	±2.5	PASS
GSM850	189	VH	NT	6.72	0.008034	±2.5	PASS
GSM850	251	VN	NT	9.27	0.010921	±2.5	PASS
GSM850	251	VL	NT	10.94	0.012889	±2.5	PASS
GSM850	251	VH	NT	8.36	0.009849	±2.5	PASS

Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	NV	-30	1.16	0.001407	±2.5	PASS
GSM850	128	NV	-20	5.81	0.007049	±2.5	PASS
GSM850	128	NV	-10	6.88	0.008347	±2.5	PASS
GSM850	128	NV	0	8.17	0.009913	±2.5	PASS
GSM850	128	NV	10	0.58	0.000704	±2.5	PASS
GSM850	128	NV	20	1.00	0.001213	±2.5	PASS
GSM850	128	NV	30	6.97	0.008457	±2.5	PASS
GSM850	128	NV	40	9.85	0.011951	±2.5	PASS
GSM850	128	NV	50	2.84	0.003446	±2.5	PASS
GSM850	189	NV	-30	7.75	0.009266	±2.5	PASS
GSM850	189	NV	-20	7.91	0.009457	±2.5	PASS
GSM850	189	NV	-10	9.81	0.011729	±2.5	PASS
GSM850	189	NV	0	0.65	0.000777	±2.5	PASS
GSM850	189	NV	10	7.01	0.008381	±2.5	PASS
GSM850	189	NV	20	14.79	0.017683	±2.5	PASS
GSM850	189	NV	30	6.07	0.007257	±2.5	PASS
GSM850	189	NV	40	7.49	0.008955	±2.5	PASS
GSM850	189	NV	50	0.68	0.000813	±2.5	PASS
GSM850	251	NV	-30	9.91	0.011675	±2.5	PASS
GSM850	251	NV	-20	7.52	0.008860	±2.5	PASS
GSM850	251	NV	-10	8.94	0.010533	±2.5	PASS
GSM850	251	NV	0	-0.32	-0.000377	±2.5	PASS
GSM850	251	NV	10	10.69	0.012594	±2.5	PASS
GSM850	251	NV	20	16.01	0.018862	±2.5	PASS
GSM850	251	NV	30	8.01	0.009437	±2.5	PASS
GSM850	251	NV	40	2.20	0.002592	±2.5	PASS
GSM850	251	NV	50	10.17	0.011982	±2.5	PASS



Test Report No.: W7L-P23100008RF04

WCDMA-B5

PEAK-TO-AVERAGE RATIO

Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dBm)	Verdict
Band5	4132	2.97	13	PASS
Band5	4182	3.04	13	PASS
Band5	4233	2.77	13	PASS

Test Graphs

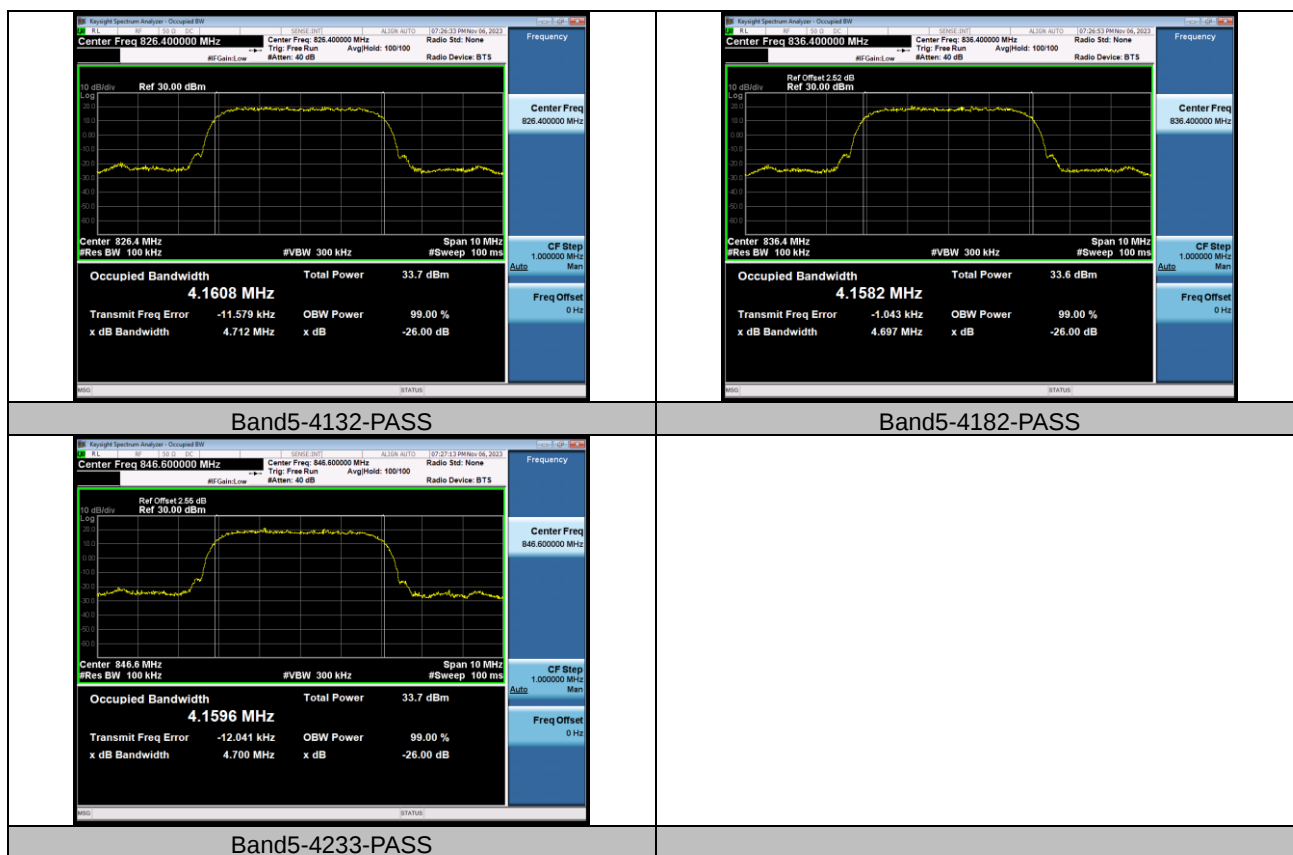


26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(kHz)	Verdict
Band5	4132	4.1608	4.712	---	PASS
Band5	4182	4.1582	4.697	---	PASS
Band5	4233	4.1596	4.700	---	PASS

Test Graphs





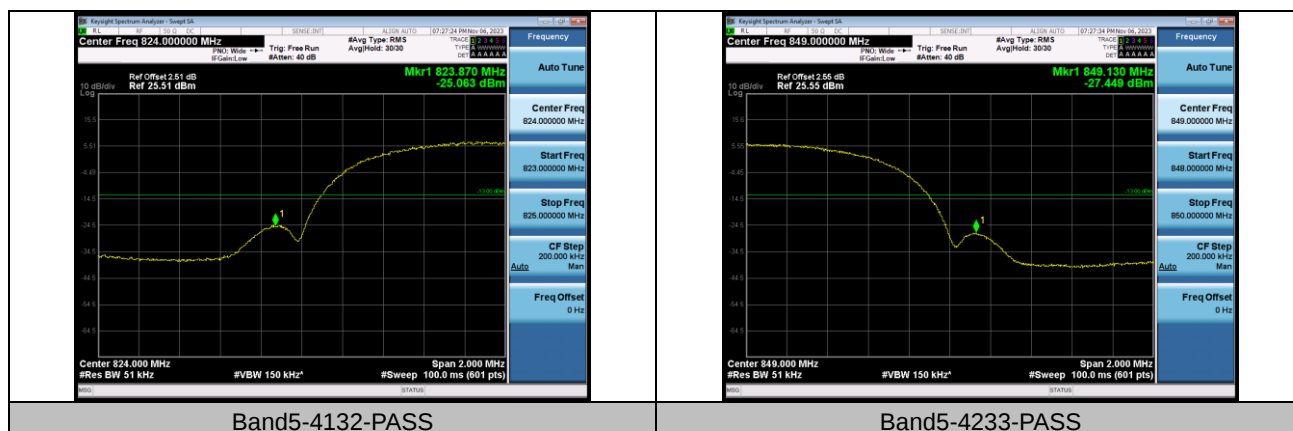
Test Report No.: W7L-P23100008RF04

BAND EDGE

Test Result

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band5	4132	823.87	-24.24	-13	PASS
Band5	4233	849.13	-27.31	-13	PASS

Test Graphs

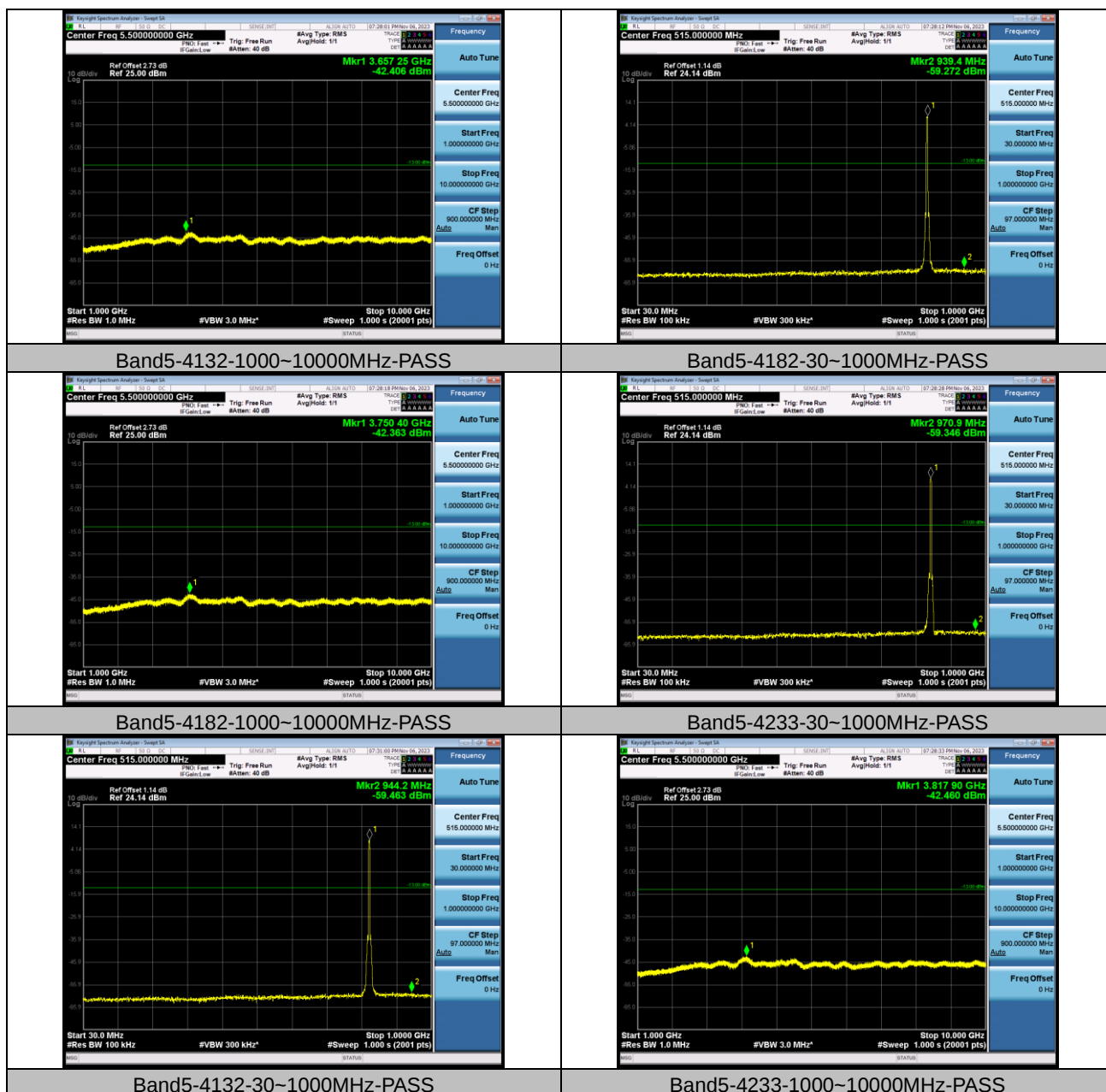


CONDUCTED SPURIOUS EMISSION

Test Result

Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band5	4132	1000~10000MHz	3657.25	-42.41	-13	PASS
Band5	4182	30~1000MHz	939.38	-59.27	-13	PASS
Band5	4182	1000~10000MHz	3750.4	-42.36	-13	PASS
Band5	4233	30~1000MHz	970.9	-59.35	-13	PASS
Band5	4132	30~1000MHz	944.23	-59.46	-13	PASS
Band5	4233	1000~10000MHz	3817.9	-42.46	-13	PASS

Test Graphs



FREQUENCY STABILITY

Test Result

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	4132	VN	NT	-13.58	-0.016433	±2.5	PASS
Band5	4132	VL	NT	-13.67	-0.016542	±2.5	PASS
Band5	4132	VH	NT	-13.05	-0.015791	±2.5	PASS
Band5	4182	VN	NT	-9.48	-0.011334	±2.5	PASS
Band5	4182	VL	NT	-11.77	-0.014072	±2.5	PASS
Band5	4182	VH	NT	-11.51	-0.013761	±2.5	PASS
Band5	4233	VN	NT	-6.76	-0.007985	±2.5	PASS
Band5	4233	VL	NT	-9.87	-0.011658	±2.5	PASS
Band5	4233	VH	NT	-7.58	-0.008953	±2.5	PASS

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	4132	NV	-30	-12.59	-0.015235	±2.5	PASS
Band5	4132	NV	-20	-11.54	-0.013964	±2.5	PASS
Band5	4132	NV	-10	-11.77	-0.014242	±2.5	PASS
Band5	4132	NV	0	-11.28	-0.013650	±2.5	PASS
Band5	4132	NV	10	-12.39	-0.014993	±2.5	PASS
Band5	4132	NV	20	-11.04	-0.013359	±2.5	PASS
Band5	4132	NV	30	-11.26	-0.013625	±2.5	PASS
Band5	4132	NV	40	-11.22	-0.013577	±2.5	PASS
Band5	4132	NV	50	-10.56	-0.012778	±2.5	PASS
Band5	4182	NV	-30	-8.89	-0.010629	±2.5	PASS
Band5	4182	NV	-20	-8.65	-0.010342	±2.5	PASS
Band5	4182	NV	-10	-5.11	-0.006110	±2.5	PASS
Band5	4182	NV	0	-10.17	-0.012159	±2.5	PASS
Band5	4182	NV	10	-11.27	-0.013474	±2.5	PASS
Band5	4182	NV	20	-9.61	-0.011490	±2.5	PASS
Band5	4182	NV	30	-10.95	-0.013092	±2.5	PASS
Band5	4182	NV	40	-8.88	-0.010617	±2.5	PASS
Band5	4182	NV	50	-8.28	-0.009900	±2.5	PASS
Band5	4233	NV	-30	-9.03	-0.010666	±2.5	PASS
Band5	4233	NV	-20	-6.30	-0.007442	±2.5	PASS
Band5	4233	NV	-10	-7.46	-0.008812	±2.5	PASS
Band5	4233	NV	0	-9.00	-0.010631	±2.5	PASS
Band5	4233	NV	10	-7.80	-0.009213	±2.5	PASS
Band5	4233	NV	20	-10.41	-0.012296	±2.5	PASS
Band5	4233	NV	30	-6.27	-0.007406	±2.5	PASS
Band5	4233	NV	40	-9.01	-0.010643	±2.5	PASS
Band5	4233	NV	50	-5.84	-0.006898	±2.5	PASS

LTE-B26

PEAK-TO-AVERAGE RATIO(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
26(824-849)	15MHz	QPSK	26865	1RB#0	4.29	13	PASS
26(824-849)	15MHz	16QAM	26865	1RB#0	5.11	13	PASS
26(824-849)	15MHz	64QAM	26865	1RB#0	5.65	13	PASS
26(824-849)	15MHz	QPSK	26865	75RB#0	5.67	13	PASS
26(824-849)	15MHz	16QAM	26865	75RB#0	6.31	13	PASS
26(824-849)	15MHz	64QAM	26865	75RB#0	5.61	13	PASS
26(824-849)	15MHz	QPSK	26915	1RB#0	4.41	13	PASS
26(824-849)	15MHz	16QAM	26915	1RB#0	5.18	13	PASS
26(824-849)	15MHz	64QAM	26915	1RB#0	5.97	13	PASS
26(824-849)	15MHz	QPSK	26915	75RB#0	5.60	13	PASS
26(824-849)	15MHz	16QAM	26915	75RB#0	6.25	13	PASS
26(824-849)	15MHz	64QAM	26915	75RB#0	5.64	13	PASS
26(824-849)	15MHz	QPSK	26965	1RB#0	4.65	13	PASS
26(824-849)	15MHz	16QAM	26965	1RB#0	5.50	13	PASS
26(824-849)	15MHz	64QAM	26965	1RB#0	5.88	13	PASS
26(824-849)	15MHz	QPSK	26965	75RB#0	5.54	13	PASS
26(824-849)	15MHz	16QAM	26965	75RB#0	6.18	13	PASS
26(824-849)	15MHz	64QAM	26965	75RB#0	5.61	13	PASS

Test Graphs

