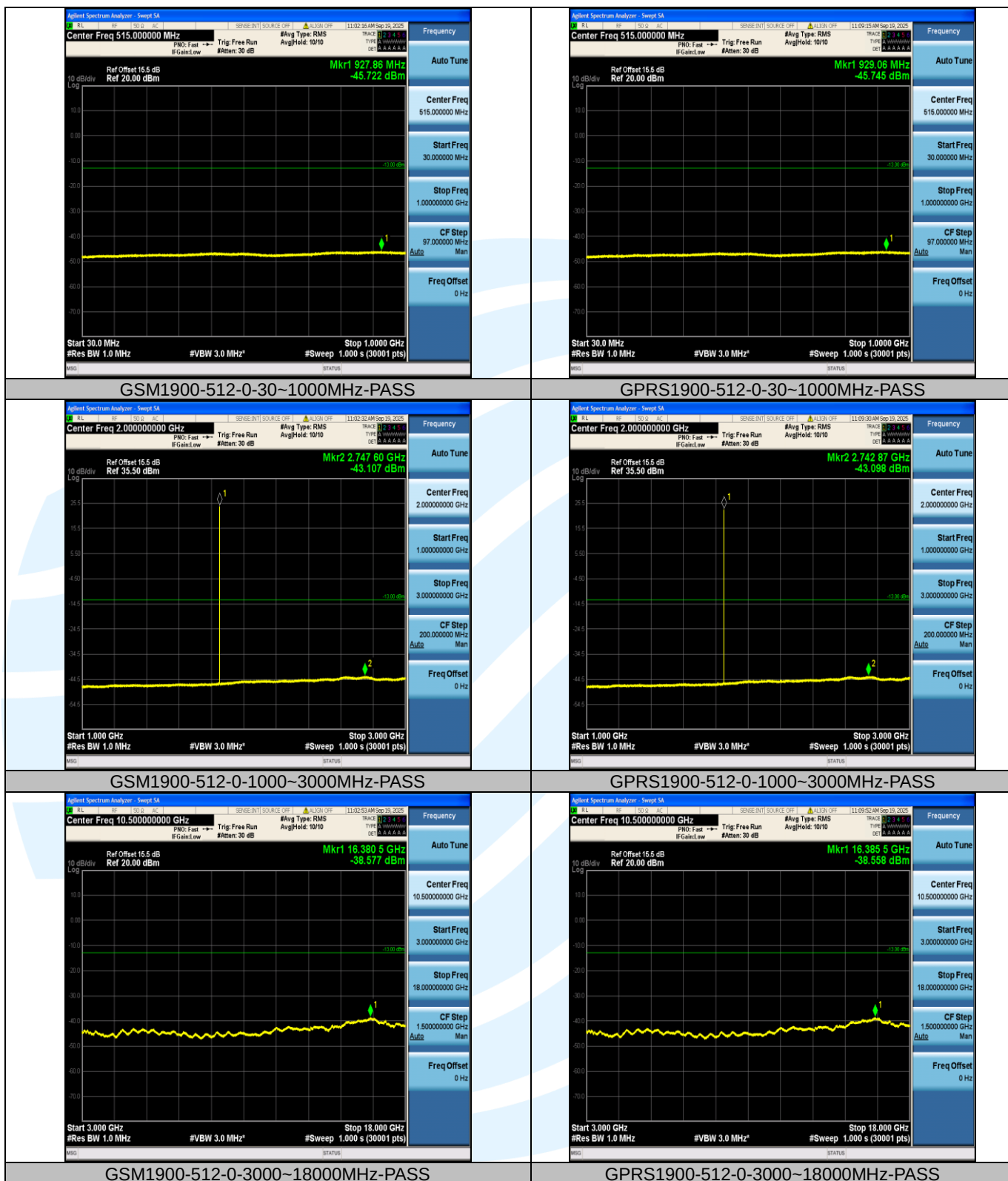
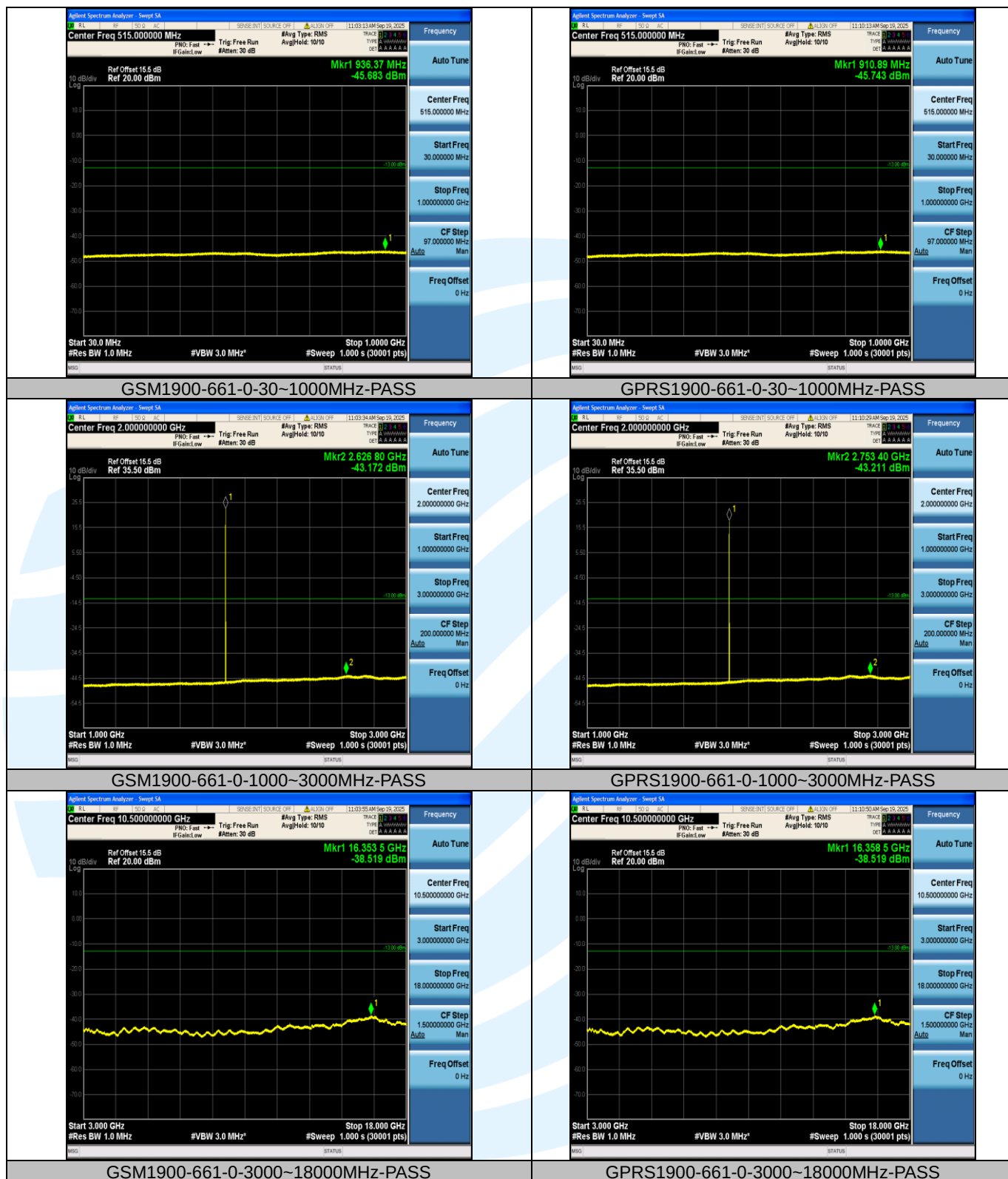
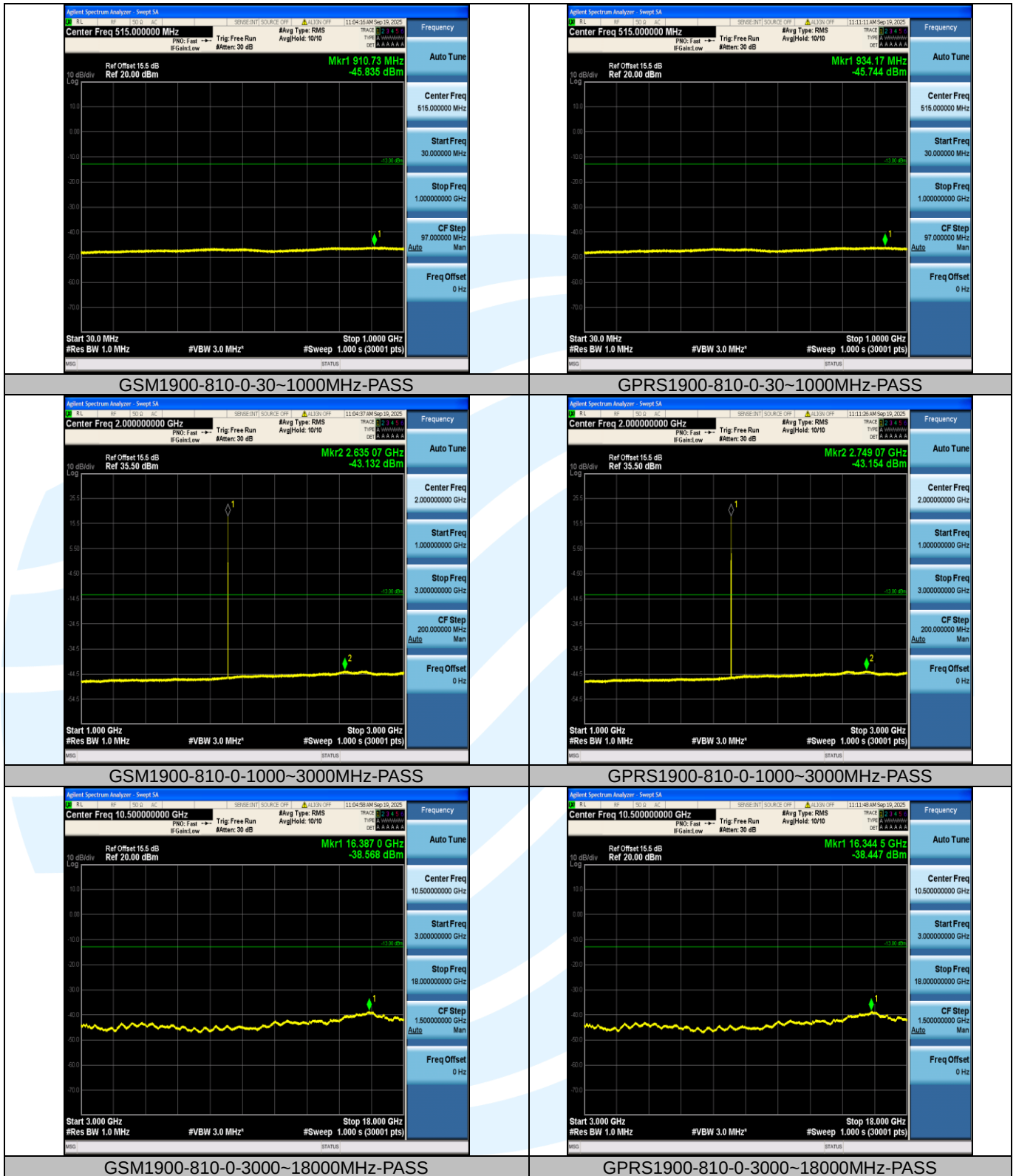
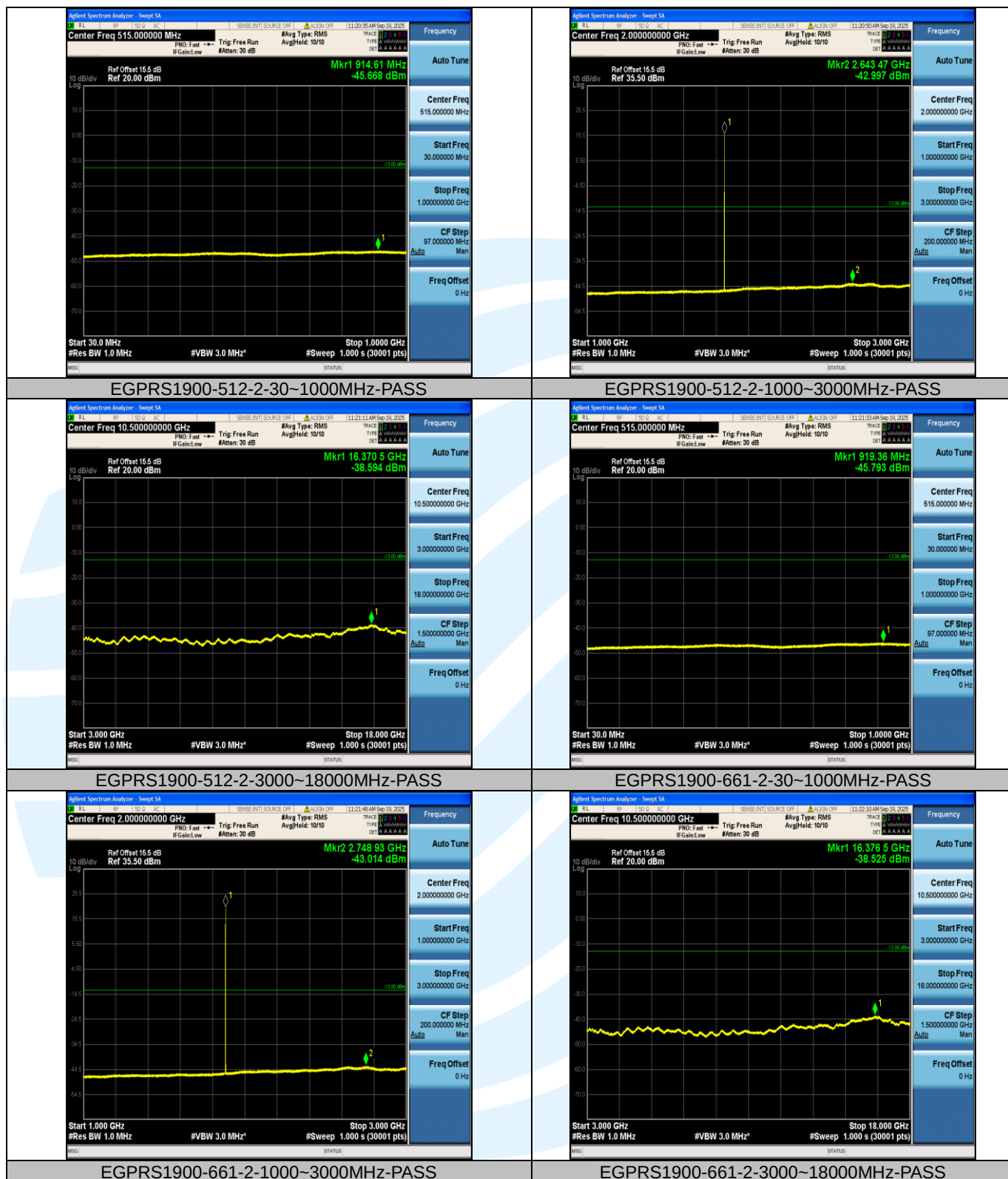
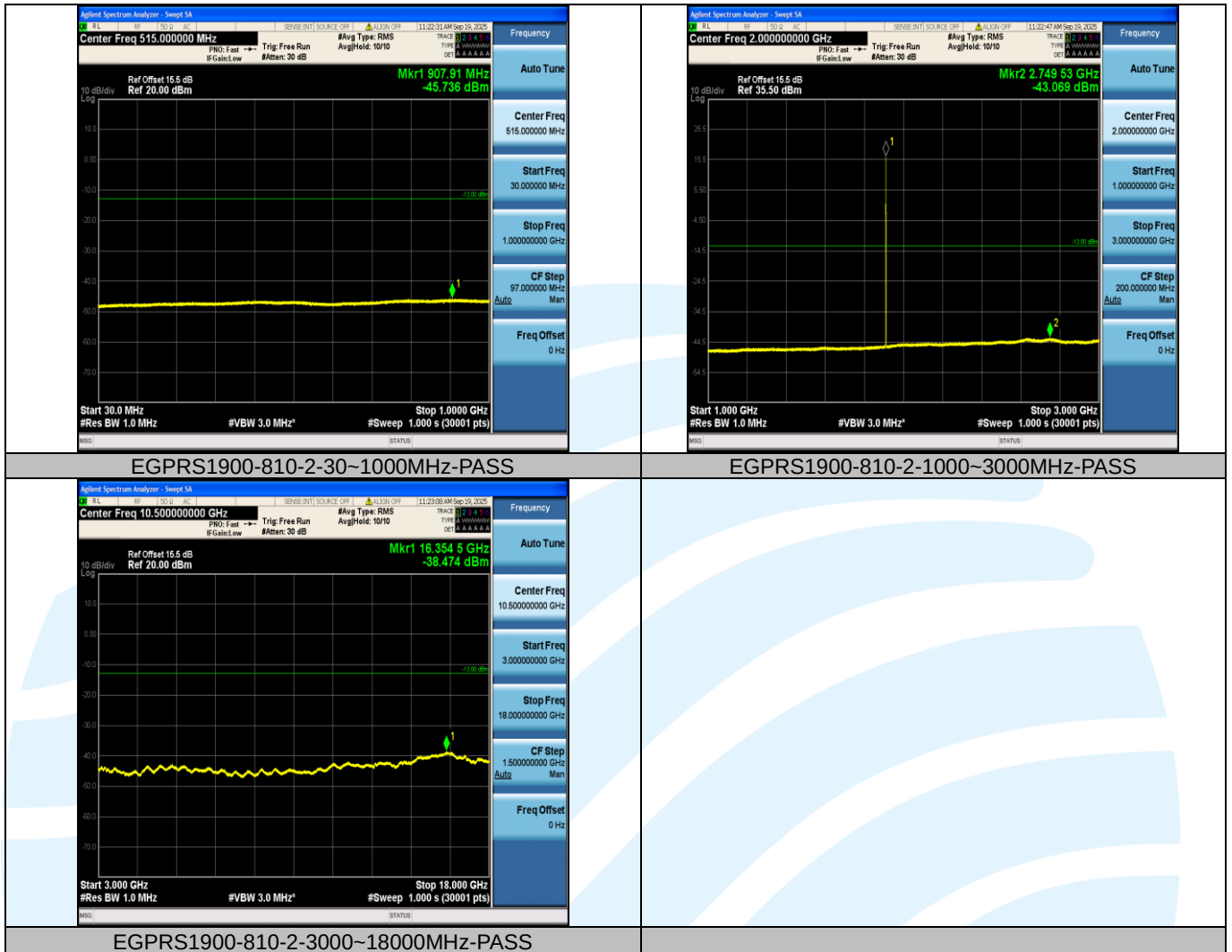












APPENDIX A5: FREQUENCY STABILITY

Test Result

Voltage							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	190	VN	NT	6.84	0.008176	±2.5	PASS
GSM850	190	VL	NT	1.87	0.002235	±2.5	PASS
GSM850	190	VH	NT	5.59	0.006682	±2.5	PASS
EGPRS850	190	VN	NT	5.88	0.007028	±2.5	PASS
EGPRS850	190	VL	NT	9.07	0.010842	±2.5	PASS
EGPRS850	190	VH	NT	14.50	0.017332	±2.5	PASS
GSM1900	661	VN	NT	-3.81	-0.002027	±2.5	PASS
GSM1900	661	VL	NT	9.17	0.004878	±2.5	PASS
GSM1900	661	VH	NT	25.05	0.013324	±2.5	PASS
EGPRS1900	661	VN	NT	21.83	0.011612	±2.5	PASS
EGPRS1900	661	VL	NT	13.17	0.007005	±2.5	PASS
EGPRS1900	661	VH	NT	16.43	0.008739	±2.5	PASS

Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	190	NV	-30	8.94	0.010686	±2.5	PASS
GSM850	190	NV	-20	7.07	0.008451	±2.5	PASS
GSM850	190	NV	-10	-0.19	-0.000227	±2.5	PASS
GSM850	190	NV	0	9.30	0.011116	±2.5	PASS
GSM850	190	NV	10	3.45	0.004124	±2.5	PASS
GSM850	190	NV	20	1.55	0.001853	±2.5	PASS
GSM850	190	NV	30	3.03	0.003622	±2.5	PASS
GSM850	190	NV	40	0.00	0.000000	±2.5	PASS
GSM850	190	NV	50	6.55	0.007829	±2.5	PASS
EGPRS850	190	NV	-30	9.91	0.011846	±2.5	PASS
EGPRS850	190	NV	-20	9.01	0.010770	±2.5	PASS
EGPRS850	190	NV	-10	8.23	0.009837	±2.5	PASS
EGPRS850	190	NV	0	7.68	0.009180	±2.5	PASS
EGPRS850	190	NV	10	5.78	0.006909	±2.5	PASS
EGPRS850	190	NV	20	7.43	0.008881	±2.5	PASS
EGPRS850	190	NV	30	7.10	0.008487	±2.5	PASS
EGPRS850	190	NV	40	9.88	0.011810	±2.5	PASS
EGPRS850	190	NV	50	5.46	0.006526	±2.5	PASS
GSM1900	661	NV	-30	15.01	0.007984	±2.5	PASS
GSM1900	661	NV	-20	13.17	0.007005	±2.5	PASS
GSM1900	661	NV	-10	14.08	0.007489	±2.5	PASS
GSM1900	661	NV	0	9.81	0.005218	±2.5	PASS
GSM1900	661	NV	10	5.59	0.002973	±2.5	PASS
GSM1900	661	NV	20	0.29	0.000154	±2.5	PASS
GSM1900	661	NV	30	11.14	0.005926	±2.5	PASS
GSM1900	661	NV	40	13.40	0.007128	±2.5	PASS
GSM1900	661	NV	50	15.05	0.008005	±2.5	PASS
EGPRS1900	661	NV	-30	6.10	0.003245	±2.5	PASS
EGPRS1900	661	NV	-20	12.66	0.006734	±2.5	PASS
EGPRS1900	661	NV	-10	6.91	0.003676	±2.5	PASS
EGPRS1900	661	NV	0	9.46	0.005032	±2.5	PASS
EGPRS1900	661	NV	10	5.33	0.002835	±2.5	PASS
EGPRS1900	661	NV	20	3.07	0.001633	±2.5	PASS
EGPRS1900	661	NV	30	10.01	0.005324	±2.5	PASS
EGPRS1900	661	NV	40	16.37	0.008707	±2.5	PASS
EGPRS1900	661	NV	50	7.91	0.004207	±2.5	PASS

APPENDIX B:WCDMA

APPENDIX B1: PEAK-TO-AVERAGE RATIO

Test Result(WCDMA)

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9262	3.15	13	PASS
Band2	9400	3.03	13	PASS
Band2	9538	3.09	13	PASS
Band4	1312	3.25	13	PASS
Band4	1413	3.27	13	PASS
Band4	1513	3.25	13	PASS
Band5	4132	3.14	13	PASS
Band5	4182	3.13	13	PASS
Band5	4233	3.15	13	PASS

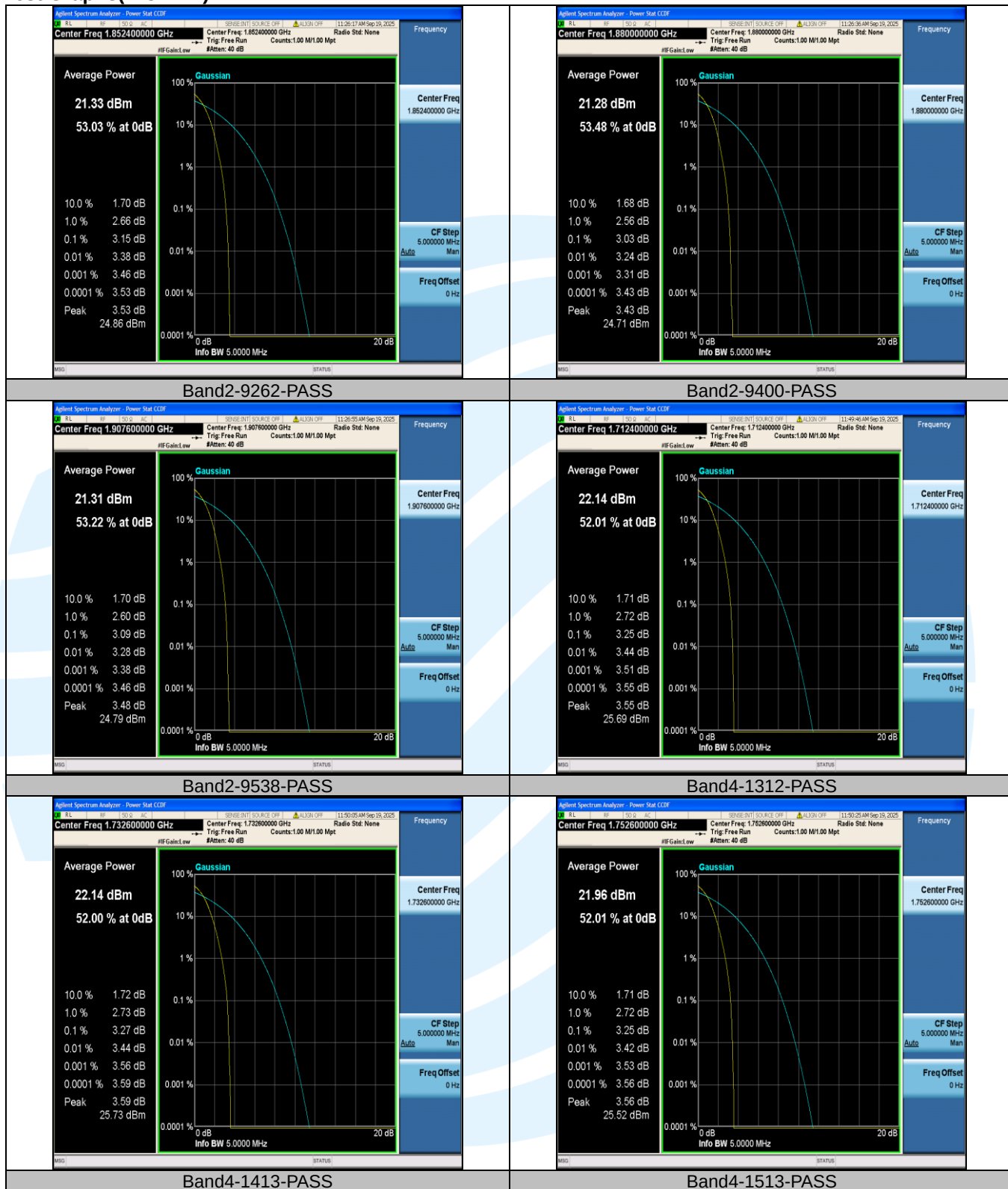
Test Result(HSDPA)

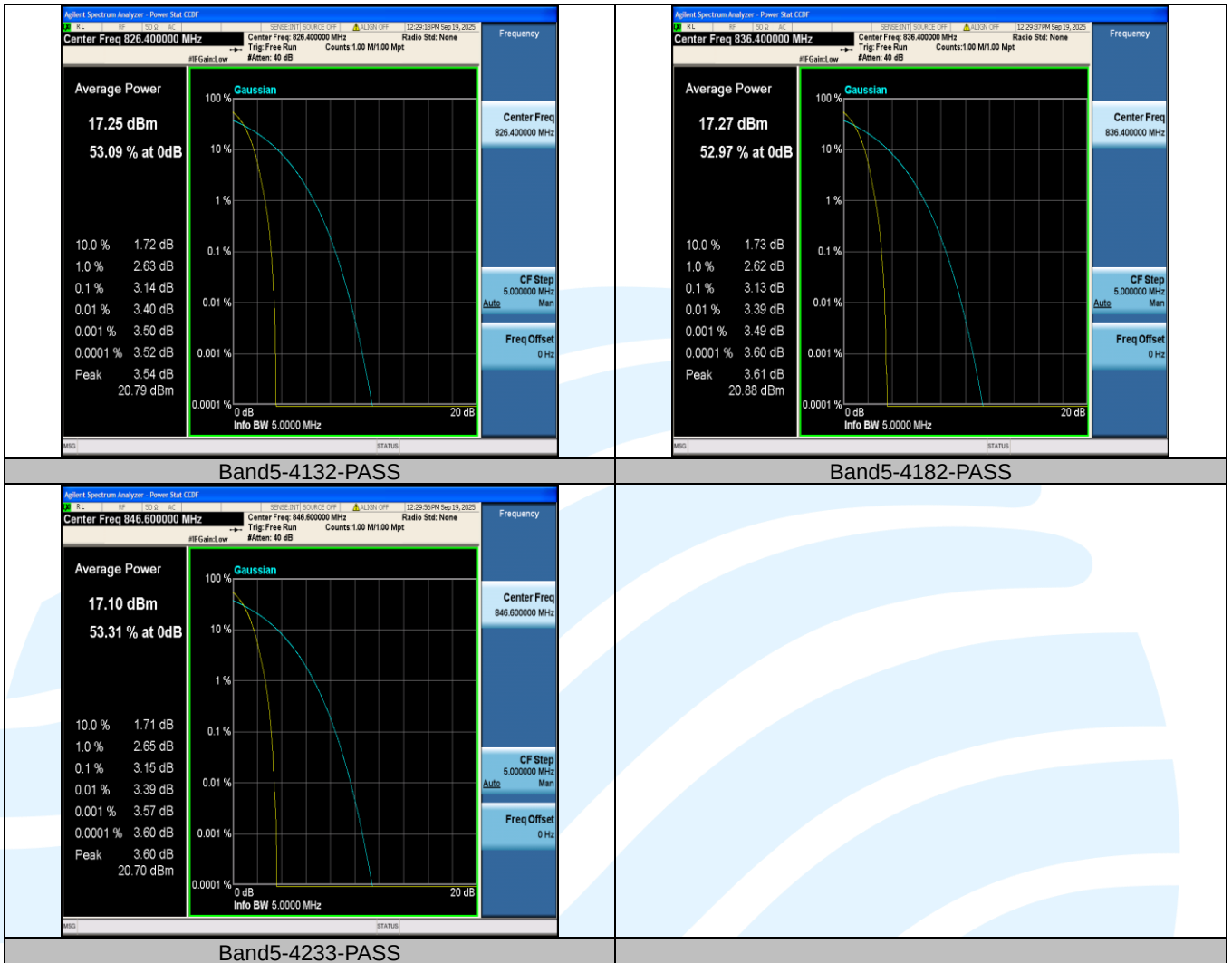
Band	Channel	SubTest	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9262	-999	3.24	13	PASS
Band2	9400	-999	3.12	13	PASS
Band2	9538	-999	3.17	13	PASS
Band4	1312	-999	3.29	13	PASS
Band4	1413	-999	3.3	13	PASS
Band4	1513	-999	3.26	13	PASS
Band5	4132	-999	3.23	13	PASS
Band5	4182	-999	3.22	13	PASS
Band5	4233	-999	3.25	13	PASS

Test Result(HSUPA)

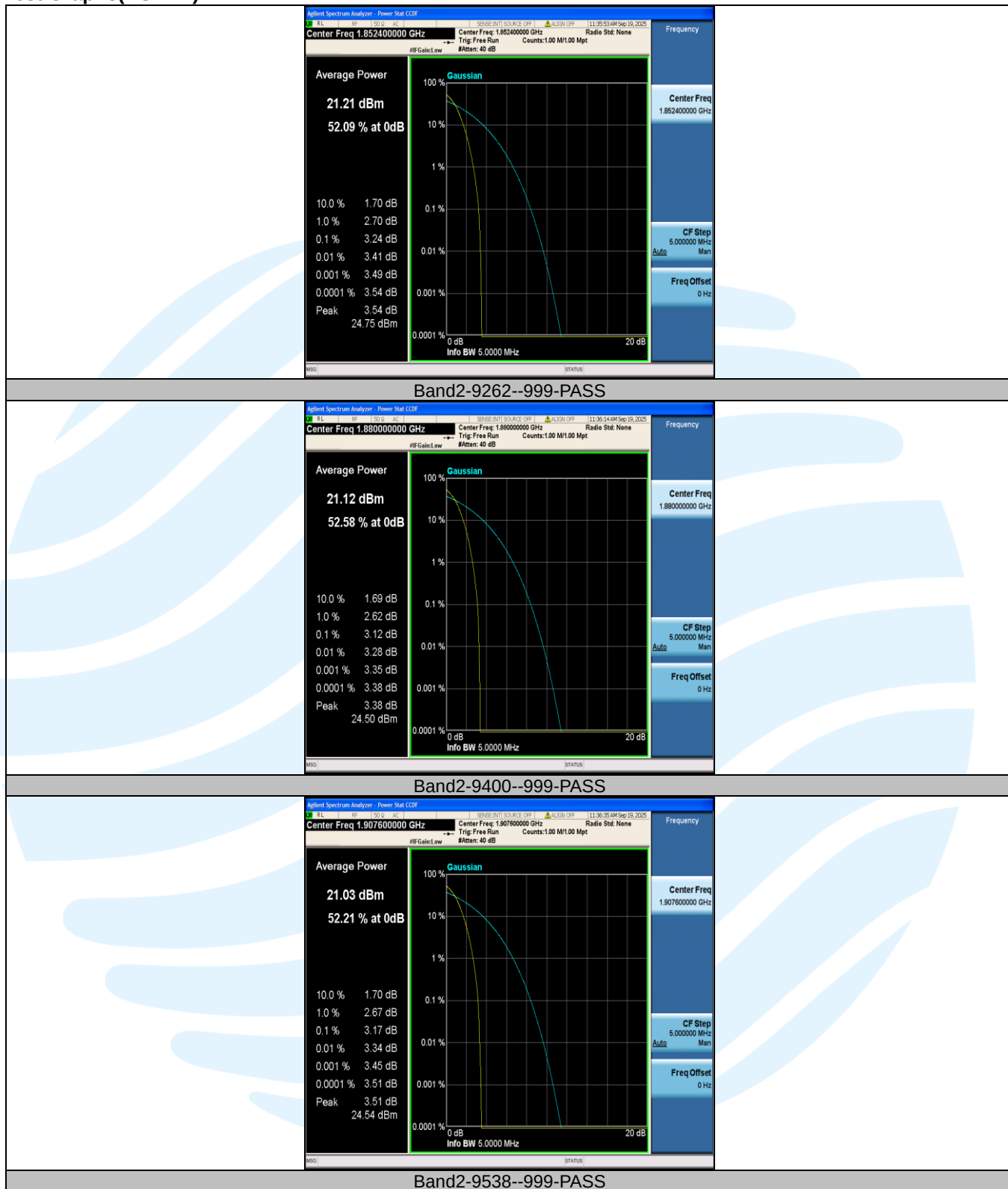
Band	Channel	SubTest	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9262	-999	4.56	13	PASS
Band2	9400	-999	4.47	13	PASS
Band2	9538	-999	4.54	13	PASS
Band4	1312	-999	4.63	13	PASS
Band4	1413	-999	4.61	13	PASS
Band4	1513	-999	4.61	13	PASS
Band5	4132	-999	4.58	13	PASS
Band5	4182	-999	4.61	13	PASS
Band5	4233	-999	4.6	13	PASS

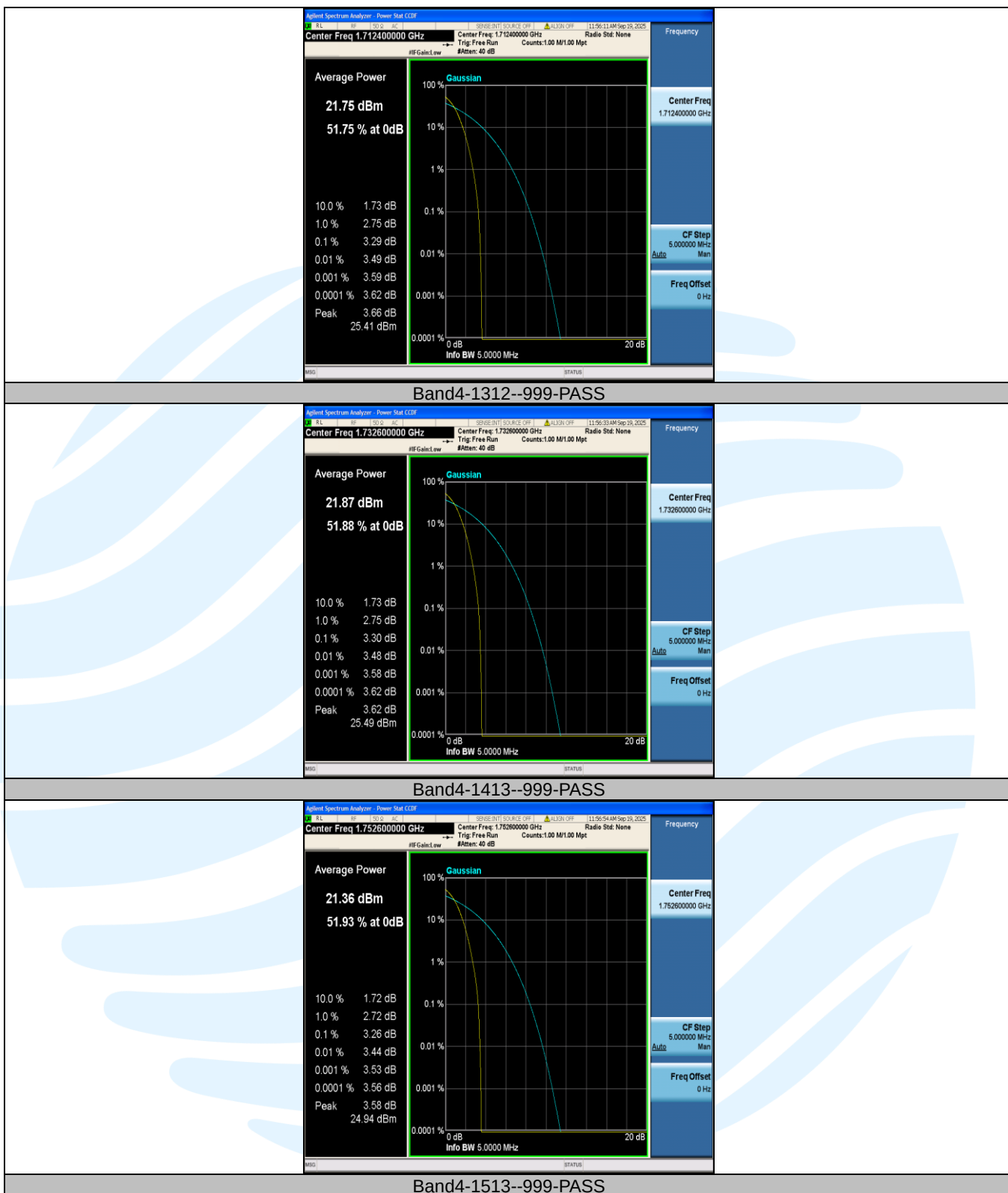
Test Graphs(WCDMA)

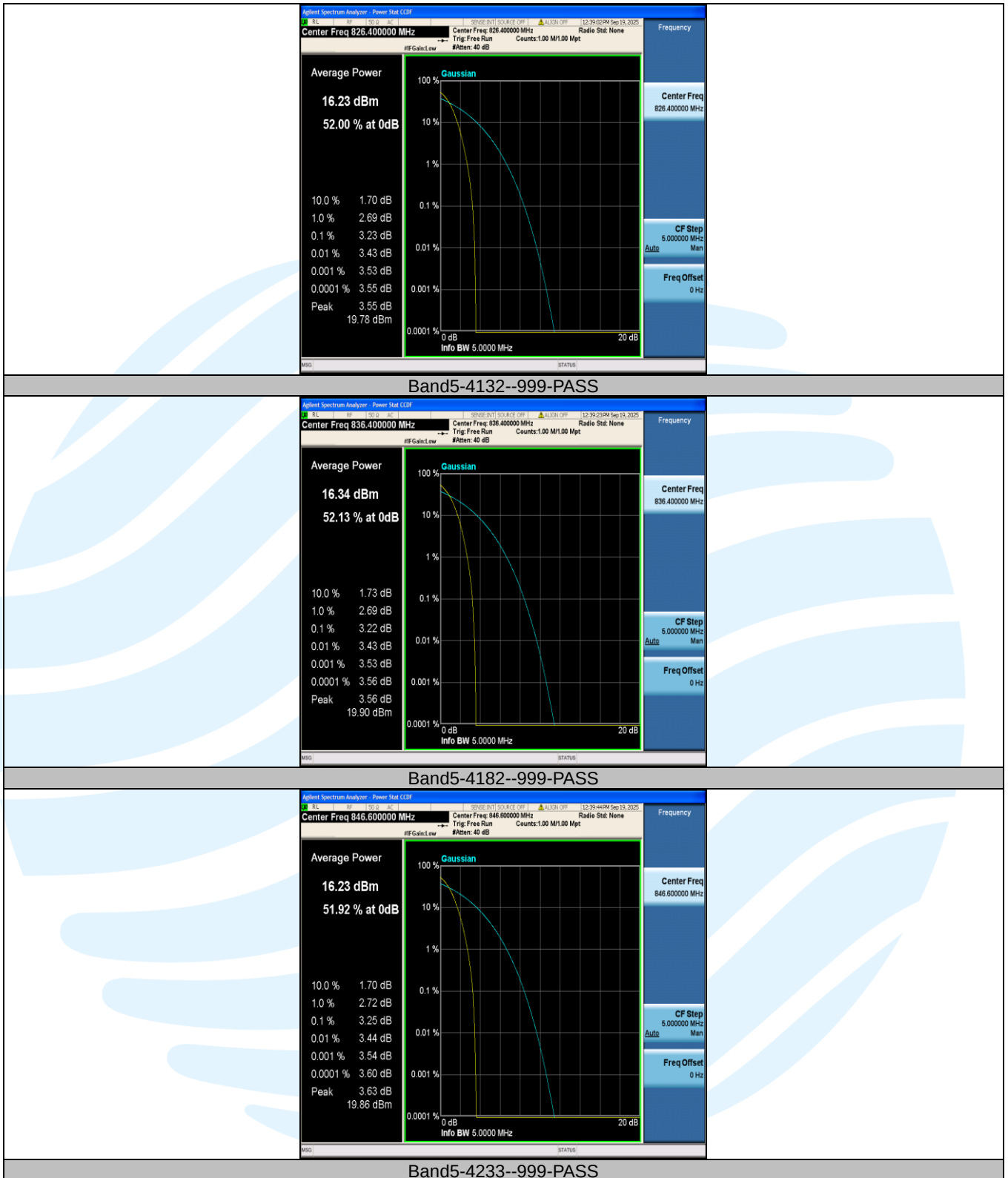




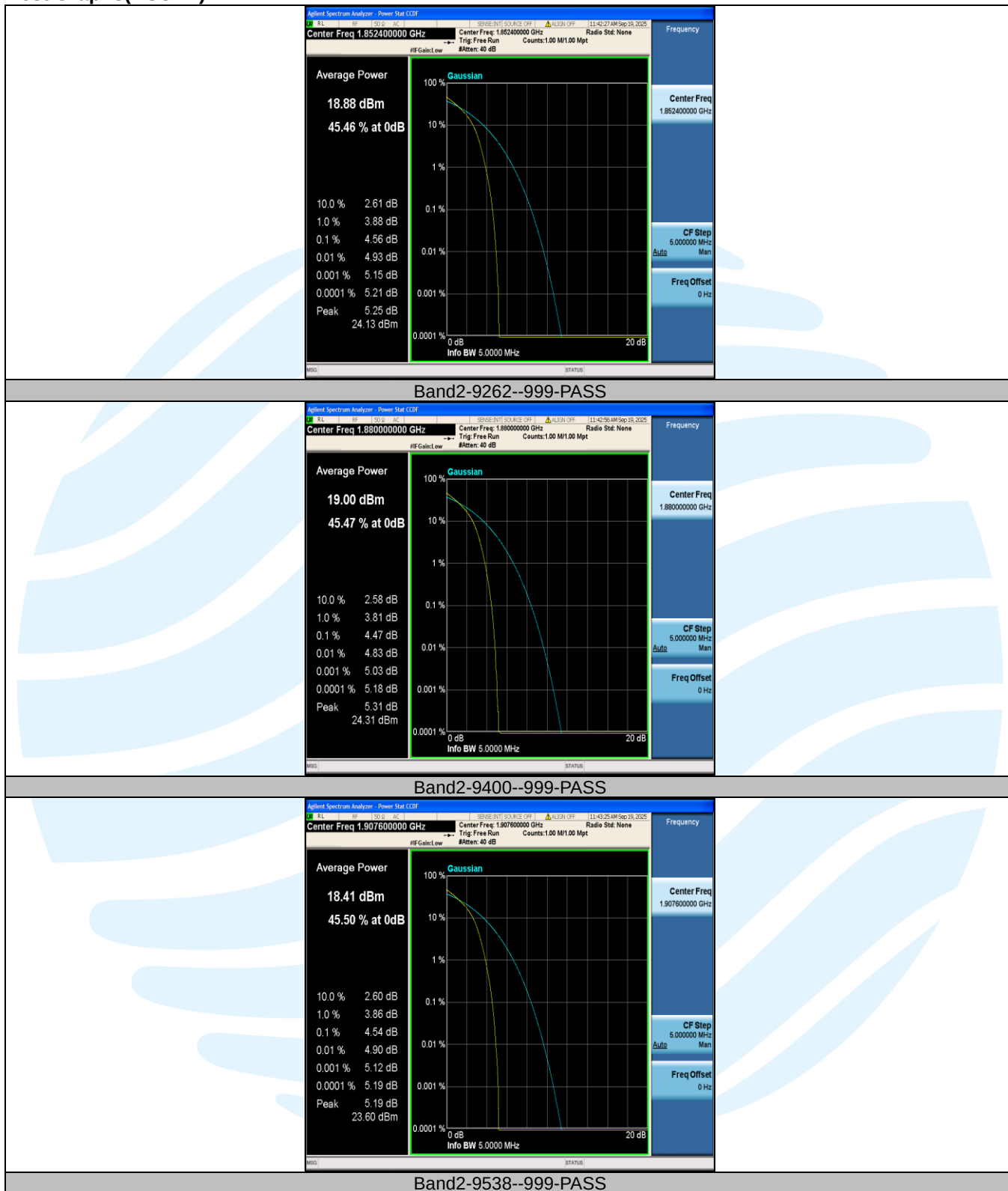
Test Graphs(HSDPA)

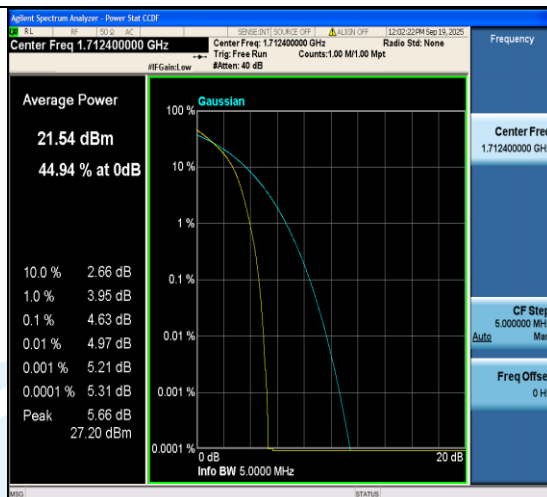




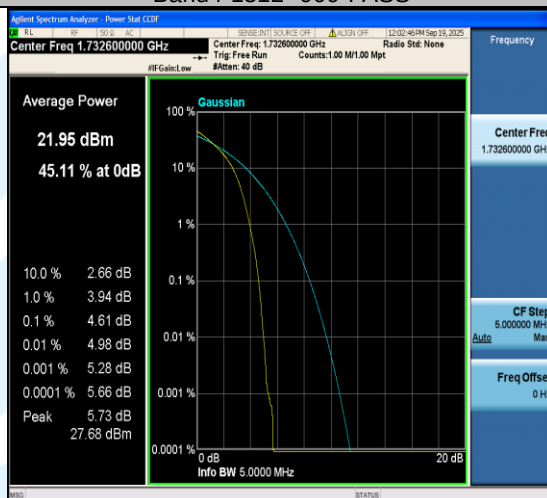


Test Graphs(HSUPA)

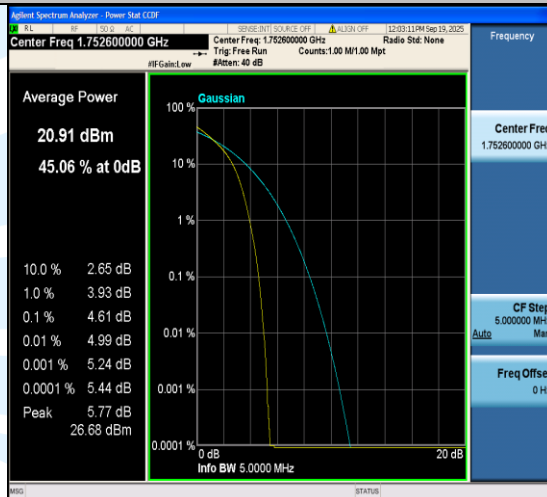




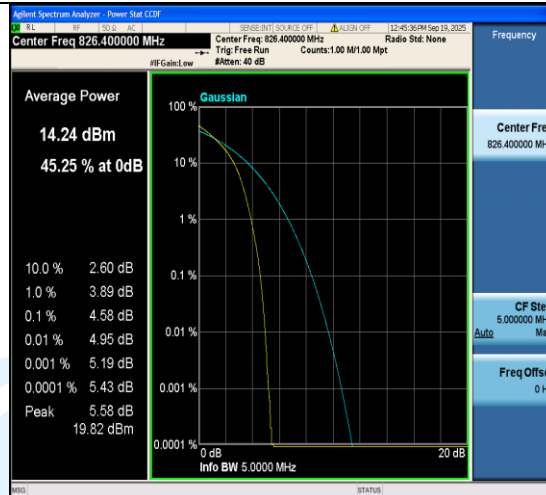
Band4-1312--999-PASS



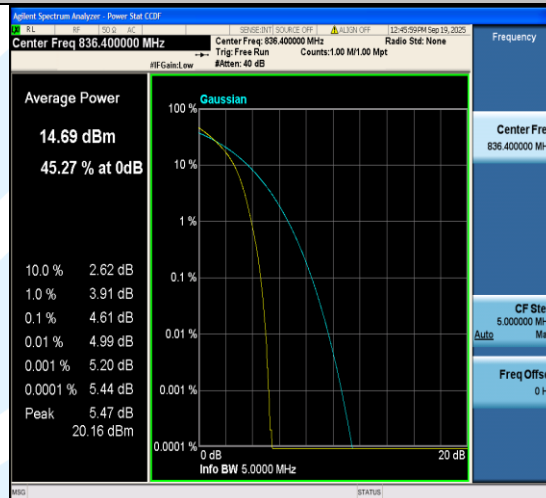
Band4-1413--999-PASS



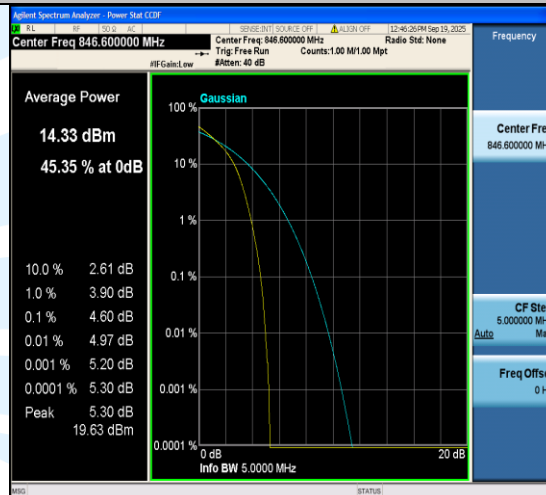
Band4-1513--999-PASS



Band5-4132--999-PASS



Band5-4182--999-PASS



Band5-4233--999-PASS

APPENDIX B2:26DB BANDWIDTH ANDOCCUPIED BANDWIDTH

Test Result(WCDMA)

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band2	9262	4.1375	4.659	PASS
Band2	9400	4.1472	4.663	PASS
Band2	9538	4.1298	4.649	PASS
Band4	1312	4.1433	4.654	PASS
Band4	1413	4.1369	4.660	PASS
Band4	1513	4.1470	4.654	PASS
Band5	4132	4.1473	4.661	PASS
Band5	4182	4.1541	4.660	PASS
Band5	4233	4.1340	4.655	PASS

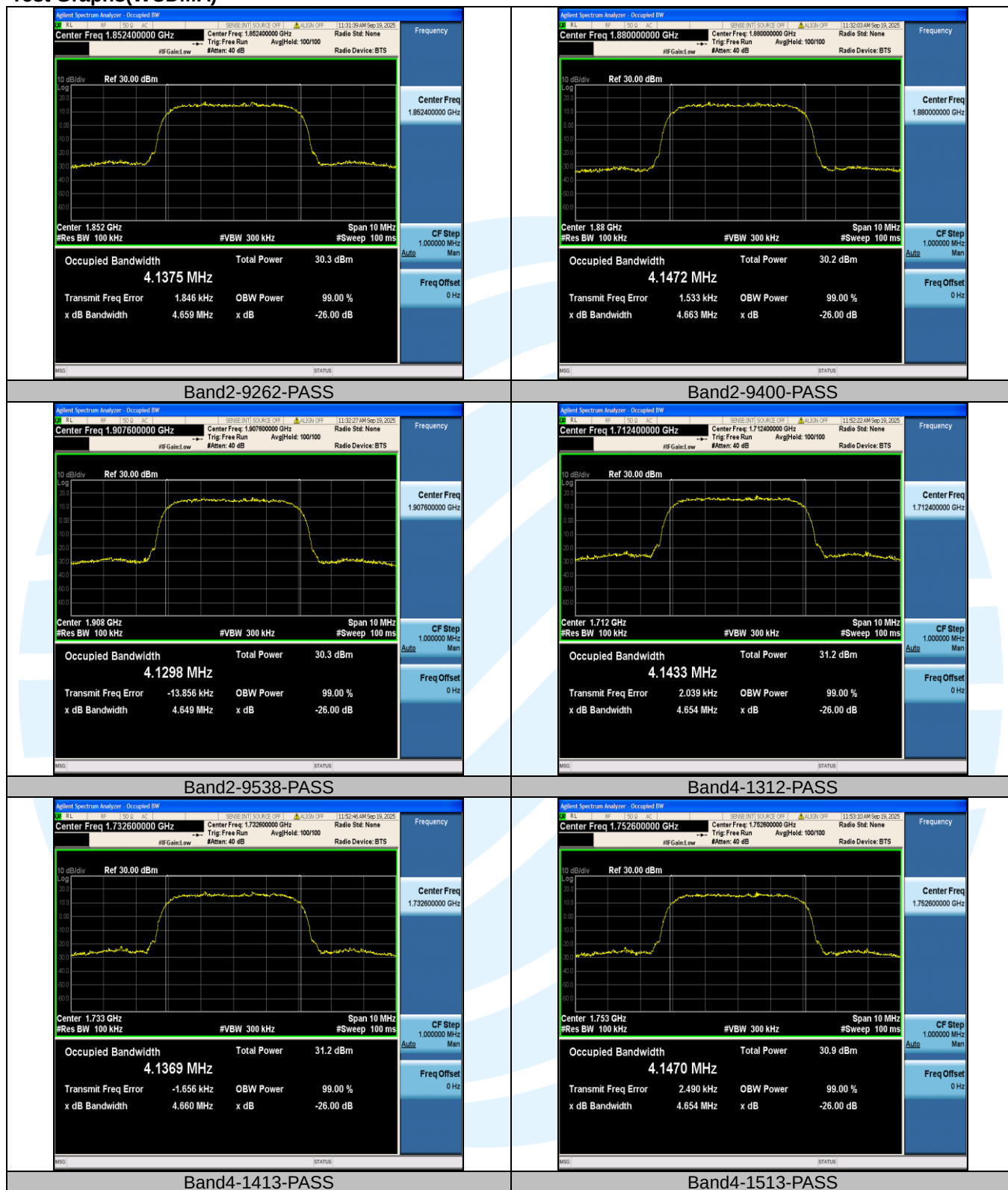
Test Result(HSDPA)

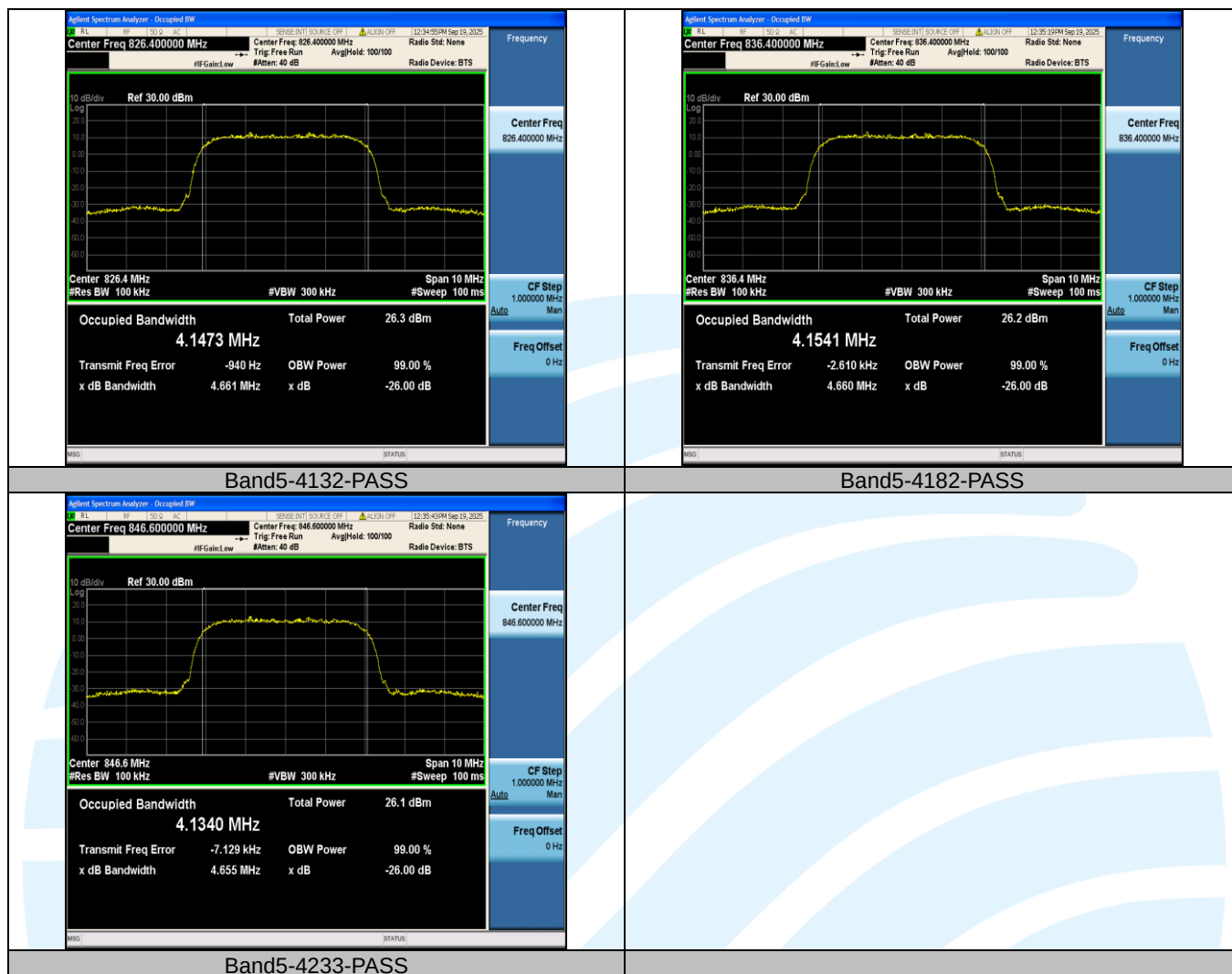
Band	Channel	SubTest	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band2	9262	-999	4.1422	4.661	PASS
Band2	9400	-999	4.1368	4.668	PASS
Band2	9538	-999	4.1372	4.660	PASS
Band4	1312	-999	4.1479	4.667	PASS
Band4	1413	-999	4.1474	4.671	PASS
Band4	1513	-999	4.1404	4.663	PASS
Band5	4132	-999	4.1504	4.659	PASS
Band5	4182	-999	4.1503	4.670	PASS
Band5	4233	-999	4.1395	4.661	PASS

Test Result(HSUPA)

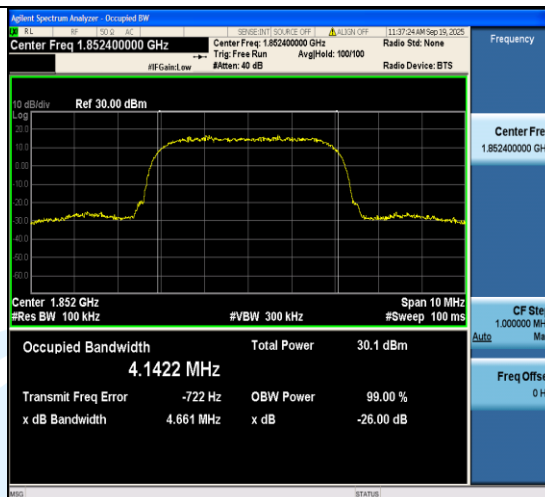
Band	Channel	SubTest	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band2	9262	-999	4.1655	4.678	PASS
Band2	9400	-999	4.1637	4.678	PASS
Band2	9538	-999	4.1482	4.682	PASS
Band4	1312	-999	4.1631	4.671	PASS
Band4	1413	-999	4.1658	4.672	PASS
Band4	1513	-999	4.1559	4.678	PASS
Band5	4132	-999	4.1758	4.681	PASS
Band5	4182	-999	4.1718	4.690	PASS
Band5	4233	-999	4.1496	4.670	PASS

Test Graphs(WCDMA)

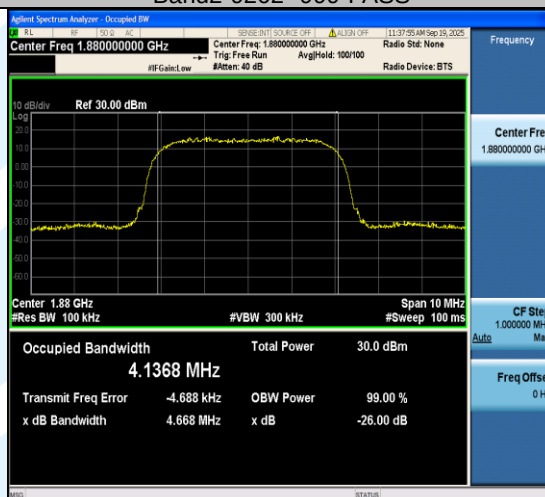




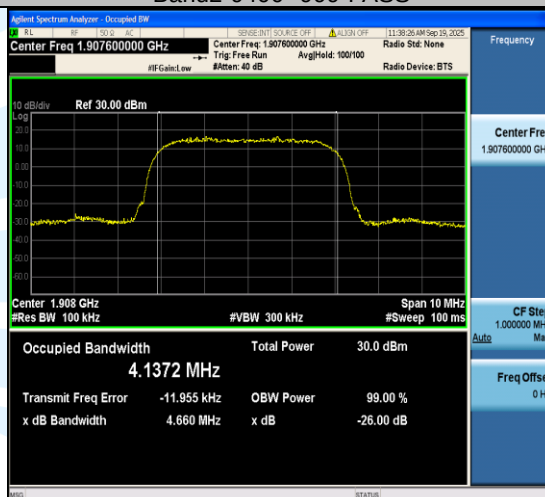
Test Graphs(HSDPA)



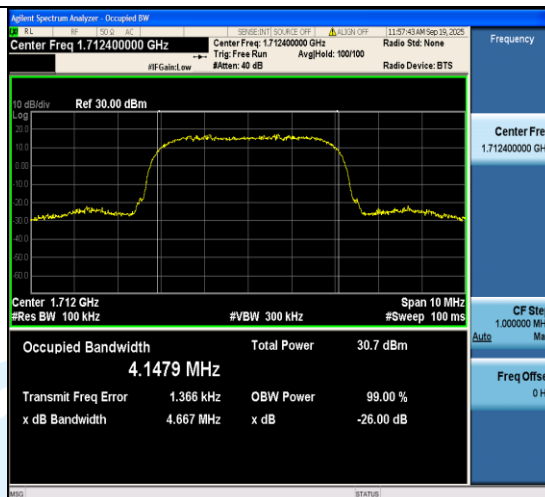
Band2-9262--999-PASS



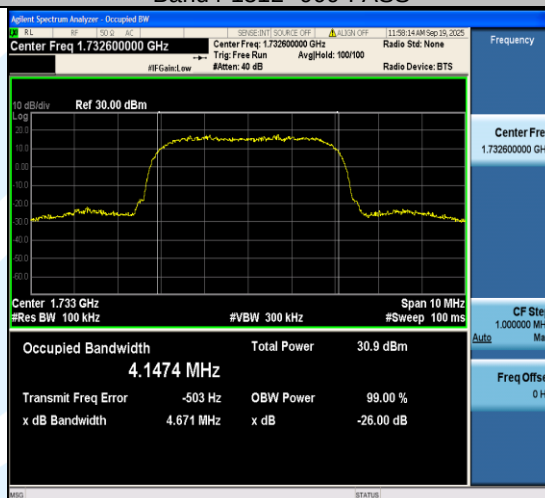
Band2-9400--999-PASS



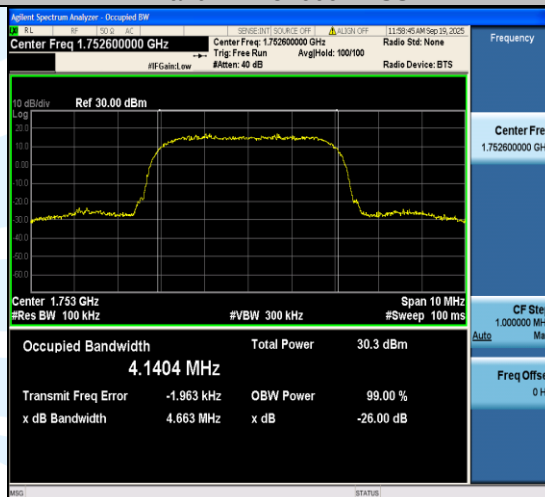
Band2-9538--999-PASS



Band4-1312--999-PASS



Band4-1413--999-PASS



Band4-1513--999-PASS