

AppendixA: Effective (Isotropic) Radiated Power Output Data

Test Result(WCDMA)

Band	Channel	Power(dBm)	ERP/EIRP(dBm)	Limit(dBm)	Verdict
Band4	1312	23.18	23.18	30	PASS
Band4	1413	23.20	23.20	30	PASS
Band4	1513	23.08	23.08	30	PASS

Test Result(HSDPA)

Band	Channel	SubTest	Power(dBm)	ERP/EIRP(dBm)	Limit(dBm)	Verdict
Band4	1312	1	22.25	22.25	30	PASS
Band4	1312	2	21.74	21.74	30	PASS
Band4	1312	3	21.75	21.75	30	PASS
Band4	1312	4	21.77	21.77	30	PASS
Band4	1413	1	22.34	22.34	30	PASS
Band4	1413	2	21.84	21.84	30	PASS
Band4	1413	3	21.85	21.85	30	PASS
Band4	1413	4	21.84	21.84	30	PASS
Band4	1513	1	22.27	22.27	30	PASS
Band4	1513	2	21.75	21.75	30	PASS
Band4	1513	3	21.72	21.72	30	PASS
Band4	1513	4	21.76	21.76	30	PASS

AppendixB:Peak-to-Average Ratio

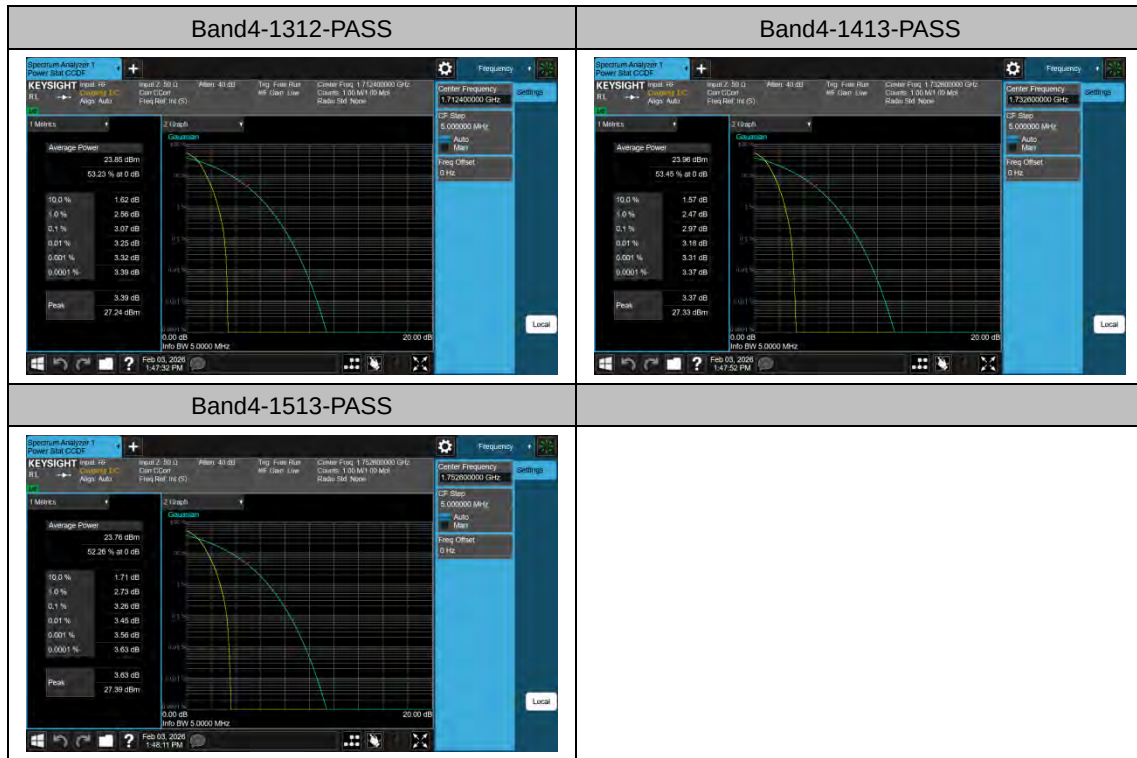
Test Result(WCDMA)

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band4	1312	3.07	13	PASS
Band4	1413	2.97	13	PASS
Band4	1513	3.26	13	PASS

Test Result(HSDPA)

Band	Channel	SubTest	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band4	1312	1	3.11	13	PASS
Band4	1312	2	3.6	13	PASS
Band4	1312	3	3.8	13	PASS
Band4	1312	4	3.85	13	PASS
Band4	1413	1	2.93	13	PASS
Band4	1413	2	3.55	13	PASS
Band4	1413	3	3.77	13	PASS
Band4	1413	4	3.83	13	PASS
Band4	1513	1	3.35	13	PASS
Band4	1513	2	3.77	13	PASS
Band4	1513	3	3.96	13	PASS
Band4	1513	4	4.01	13	PASS

Test Graphs(WCDMA)



Test Graphs(HSDPA)

Band4-1312-1-PASS



Band4-1312-2-PASS



Band4-1312-3-PASS



Band4-1312-4-PASS



Band4-1413-1-PASS



Band4-1413-2-PASS



Band4-1413-3-PASS



Band4-1413-4-PASS



Band4-1513-1-PASS



Band4-1513-2-PASS



Band4-1513-3-PASS



Band4-1513-4-PASS



AppendixC:26dB Bandwidth andOccupied Bandwidth

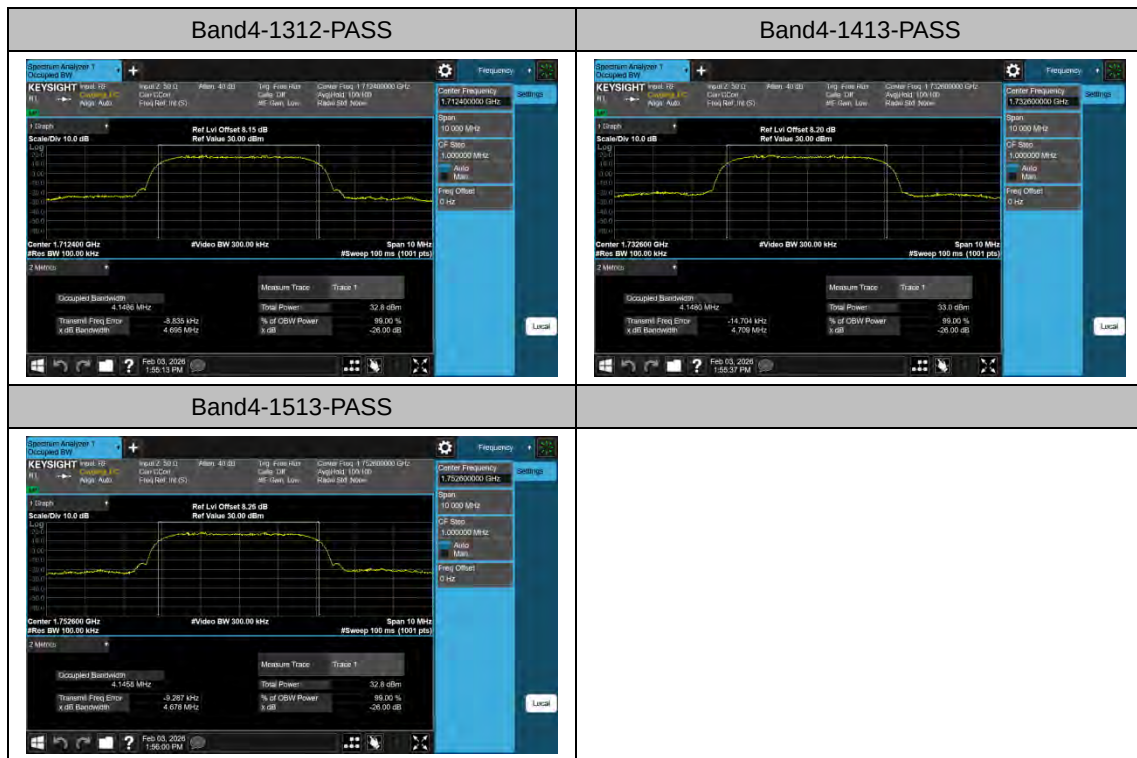
Test Result(WCDMA)

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band4	1312	4.1486	4.695	---	PASS
Band4	1413	4.1480	4.709	---	PASS
Band4	1513	4.1458	4.678	---	PASS

Test Result(HSDPA)

Band	Channel	SubTest	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band4	1312	1	4.1477	4.702	---	PASS
Band4	1312	2	0.83456	0.9652	---	PASS
Band4	1312	3	4.1591	4.701	---	PASS
Band4	1312	4	4.1494	4.709	---	PASS
Band4	1413	1	0.81629	0.9370	---	PASS
Band4	1413	2	9.9049	10.00	---	PASS
Band4	1413	3	4.1684	4.691	---	PASS
Band4	1413	4	4.1492	4.690	---	PASS
Band4	1513	1	4.1751	4.712	---	PASS
Band4	1513	2	4.1588	4.698	---	PASS
Band4	1513	3	4.1612	4.711	---	PASS
Band4	1513	4	4.1623	4.714	---	PASS

Test Graphs(WCDMA)



Test Graphs(HSDPA)

Band4-1312-1-PASS



Band4-1312-2-PASS



Band4-1312-3-PASS



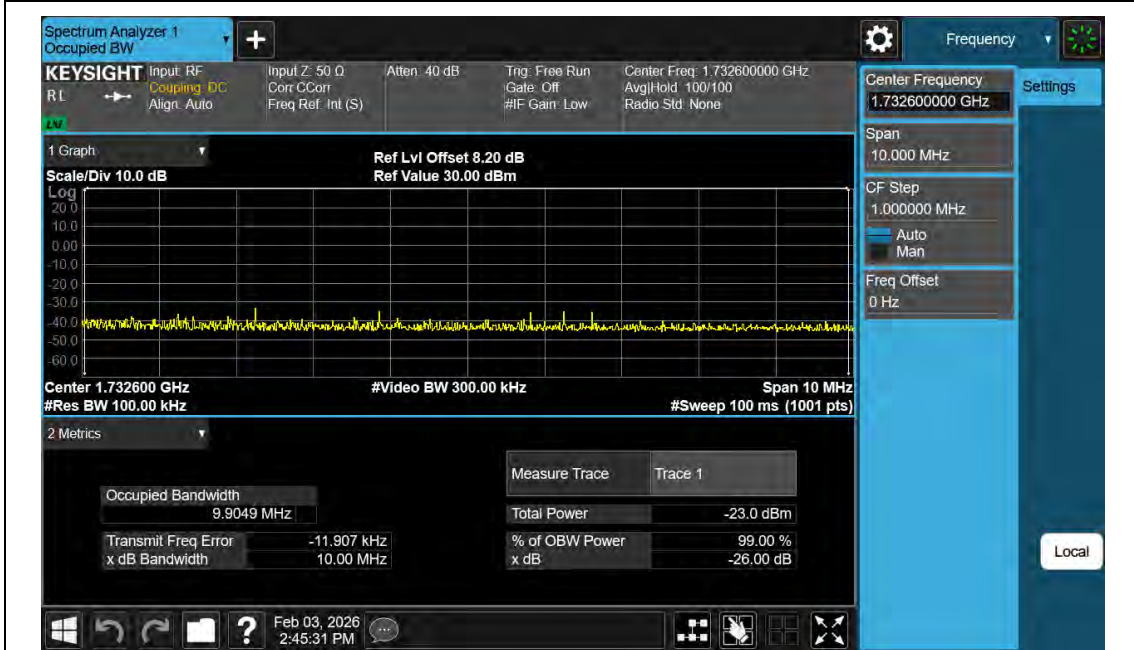
Band4-1312-4-PASS



Band4-1413-1-PASS



Band4-1413-2-PASS



Band4-1413-3-PASS



Band4-1413-4-PASS



Band4-1513-1-PASS



Band4-1513-2-PASS



Band4-1513-3-PASS



Band4-1513-4-PASS



AppendixD:Band Edge

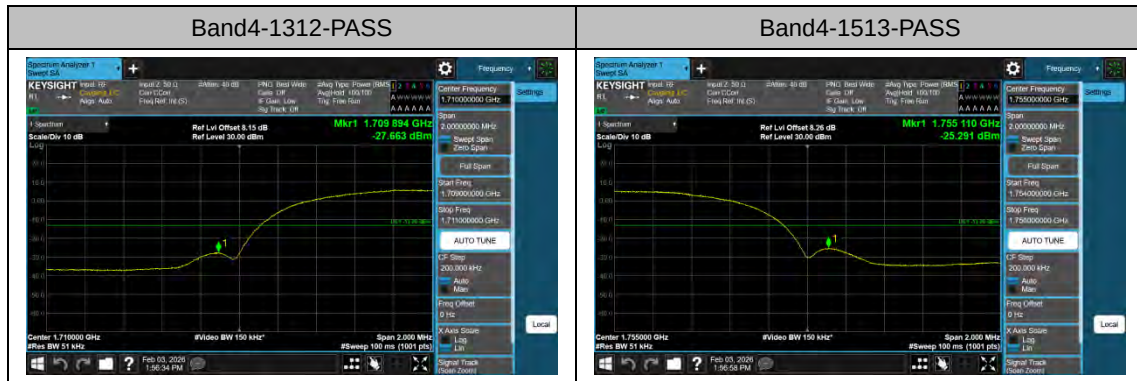
Test Result(WCDMA)

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band4	1312	1709.89	-27.66	-13	PASS
Band4	1513	1755.11	-25.29	-13	PASS

Test Result(HSDPA)

Band	Channel	SubTest	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band4	1312	1	1709.88	-27.58	-13	PASS
Band4	1312	2	1709.88	-28.75	-13	PASS
Band4	1312	3	1710.00	-28.93	-13	PASS
Band4	1312	4	1710.00	-28.96	-13	PASS
Band4	1513	1	1755.11	-25.40	-13	PASS
Band4	1513	2	1755.00	-27.19	-13	PASS
Band4	1513	3	1755.00	-26.23	-13	PASS
Band4	1513	4	1755.00	-26.28	-13	PASS

Test Graphs(WCDMA)



Test Graphs(HSDPA)





Band4-1312-4-PASS



Band4-1513-1-PASS



Band4-1513-2-PASS



Band4-1513-3-PASS



Band4-1513-4-PASS



AppendixE:Conducted SpuriousEmission

Test Result(WCDMA)

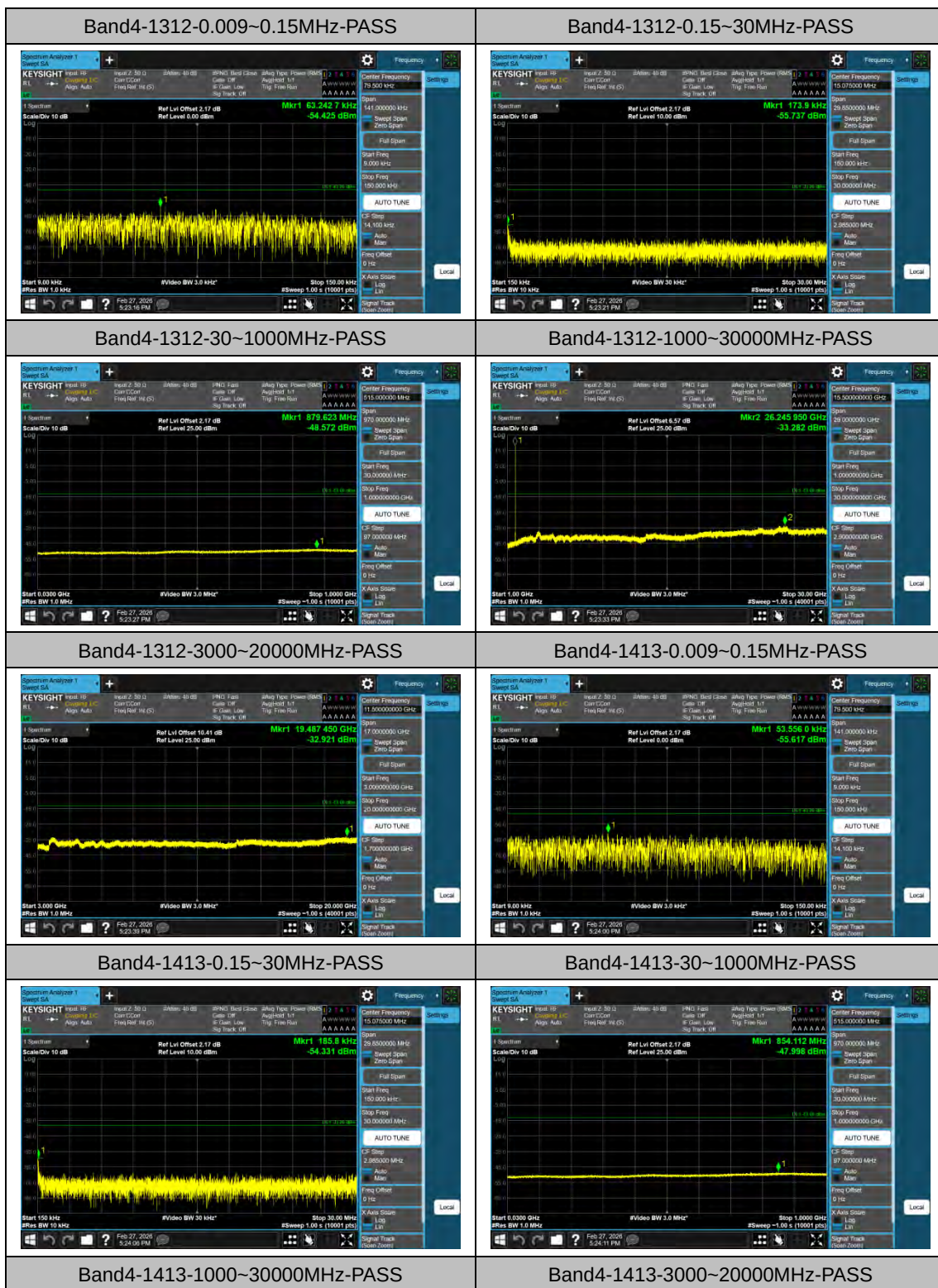
Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band4	1312	0.009~0.15MHz	0.06	-54.43	-43	PASS
Band4	1312	0.15~30MHz	0.17	-55.74	-33	PASS
Band4	1312	30~1000MHz	879.62	-48.57	-13	PASS
Band4	1312	1000~30000MHz	26245.95	-33.28	-13	PASS
Band4	1312	3000~20000MHz	19487.45	-32.92	-13	PASS
Band4	1413	0.009~0.15MHz	0.05	-55.62	-43	PASS
Band4	1413	0.15~30MHz	0.19	-54.33	-33	PASS
Band4	1413	30~1000MHz	854.11	-48	-13	PASS
Band4	1413	1000~30000MHz	25810.23	-33.87	-13	PASS
Band4	1413	3000~20000MHz	19943.9	-32.78	-13	PASS
Band4	1513	0.009~0.15MHz	0.06	-55.45	-43	PASS
Band4	1513	0.15~30MHz	0.16	-55.66	-33	PASS
Band4	1513	30~1000MHz	855.18	-48.54	-13	PASS
Band4	1513	1000~30000MHz	25725.4	-33.57	-13	PASS
Band4	1513	3000~20000MHz	19434.75	-32.84	-13	PASS

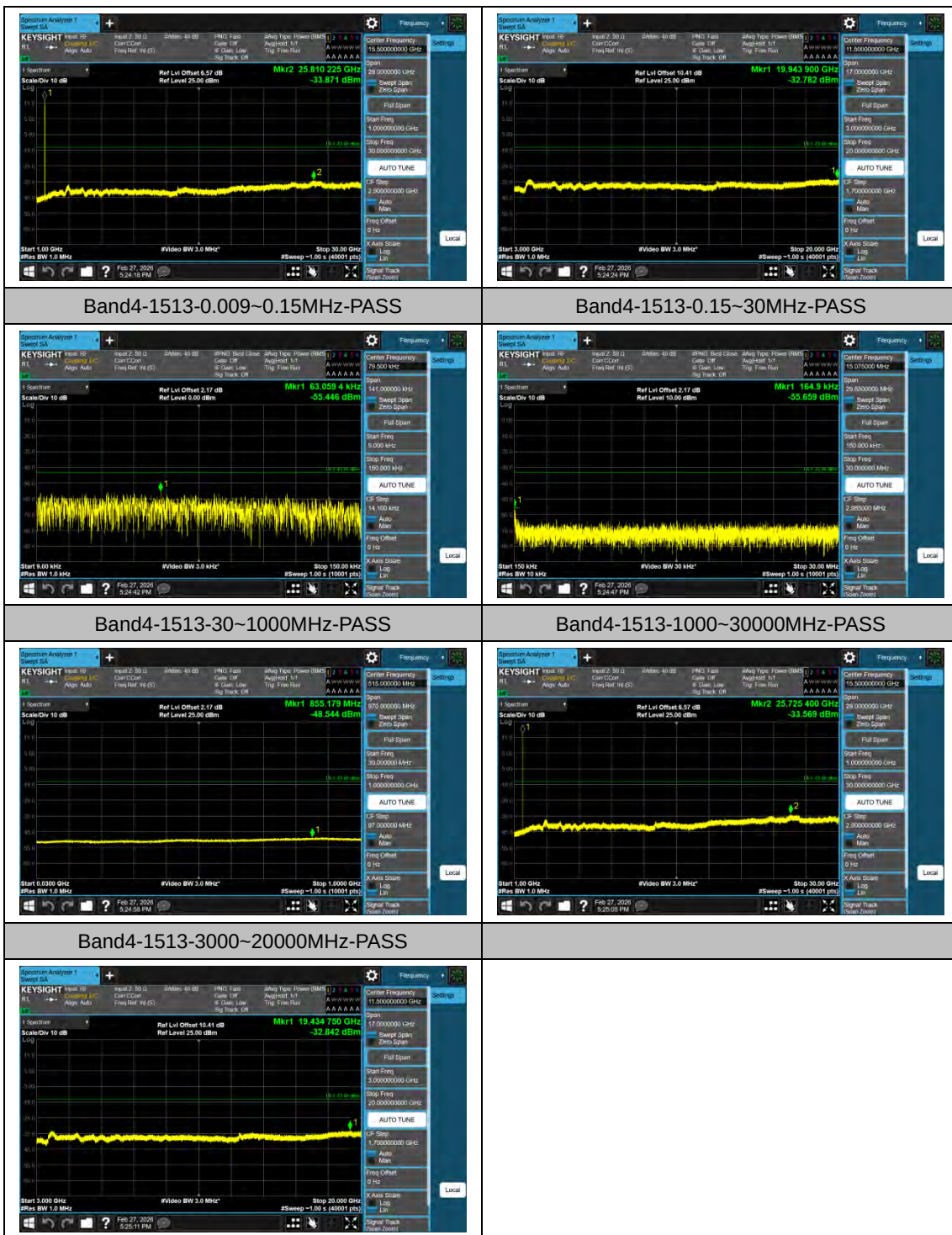
Test Result(HSDPA)

Band	Channel	SubTest	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band4	1312	1	0.009~0.15MHz	0.01	-56.14	-43	PASS
Band4	1312	1	0.15~30MHz	0.15	-58.17	-33	PASS
Band4	1312	1	30~1000MHz	876.81	-49.29	-13	PASS
Band4	1312	1	1000~20000MHz	19443.3	-36.86	-13	PASS
Band4	1312	2	0.009~0.15MHz	0.02	-56.53	-43	PASS
Band4	1312	2	0.15~30MHz	0.15	-57.78	-33	PASS
Band4	1312	2	30~1000MHz	895.73	-49.24	-13	PASS
Band4	1312	2	1000~20000MHz	19846.1	-36.83	-13	PASS
Band4	1312	3	0.009~0.15MHz	0.03	-56.66	-43	PASS
Band4	1312	3	0.15~30MHz	0.15	-57.07	-33	PASS
Band4	1312	3	30~1000MHz	876.81	-49.17	-13	PASS
Band4	1312	3	1000~20000MHz	3755.48	-36.54	-13	PASS
Band4	1312	4	0.009~0.15MHz	0.03	-56.6	-43	PASS
Band4	1312	4	0.15~30MHz	0.15	-57.64	-33	PASS
Band4	1312	4	30~1000MHz	899.12	-49.24	-13	PASS
Band4	1312	4	1000~20000MHz	3844.78	-37.04	-13	PASS
Band4	1413	1	0.009~0.15MHz	0.02	-57.46	-43	PASS
Band4	1413	1	0.15~30MHz	0.15	-59.13	-33	PASS
Band4	1413	1	30~1000MHz	839.47	-49.25	-13	PASS

Band4	1413	1	1000~20000MHz	19696	-37	-13	PASS
Band4	1413	2	0.009~0.15MHz	0.05	-57.1	-43	PASS
Band4	1413	2	0.15~30MHz	0.15	-57.89	-33	PASS
Band4	1413	2	30~1000MHz	886.51	-49.21	-13	PASS
Band4	1413	2	1000~20000MHz	3838.13	-36.58	-13	PASS
Band4	1413	3	0.009~0.15MHz	0.06	-57.67	-43	PASS
Band4	1413	3	0.15~30MHz	0.15	-58.98	-33	PASS
Band4	1413	3	30~1000MHz	898.15	-49.25	-13	PASS
Band4	1413	3	1000~20000MHz	19447.1	-36.97	-13	PASS
Band4	1413	4	0.009~0.15MHz	0.03	-55.39	-43	PASS
Band4	1413	4	0.15~30MHz	0.15	-56.83	-33	PASS
Band4	1413	4	30~1000MHz	899.61	-49.23	-13	PASS
Band4	1413	4	1000~20000MHz	3787.3	-36.54	-13	PASS
Band4	1513	1	0.009~0.15MHz	0.04	-58.4	-43	PASS
Band4	1513	1	0.15~30MHz	0.15	-57.71	-33	PASS
Band4	1513	1	30~1000MHz	886.51	-49.24	-13	PASS
Band4	1513	1	1000~20000MHz	19454.7	-36.73	-13	PASS
Band4	1513	2	0.009~0.15MHz	0.06	-57.41	-43	PASS
Band4	1513	2	0.15~30MHz	0.15	-57.98	-33	PASS
Band4	1513	2	30~1000MHz	899.61	-49.24	-13	PASS
Band4	1513	2	1000~20000MHz	19064.73	-36.73	-13	PASS
Band4	1513	3	0.009~0.15MHz	0.03	-55.63	-43	PASS
Band4	1513	3	0.15~30MHz	0.15	-58.34	-33	PASS
Band4	1513	3	30~1000MHz	883.12	-49.17	-13	PASS
Band4	1513	3	1000~20000MHz	3794.9	-36.46	-13	PASS
Band4	1513	4	0.009~0.15MHz	0.06	-57.35	-43	PASS
Band4	1513	4	0.15~30MHz	0.15	-57.9	-33	PASS
Band4	1513	4	30~1000MHz	892.33	-49.24	-13	PASS
Band4	1513	4	1000~20000MHz	19471.33	-36.94	-13	PASS

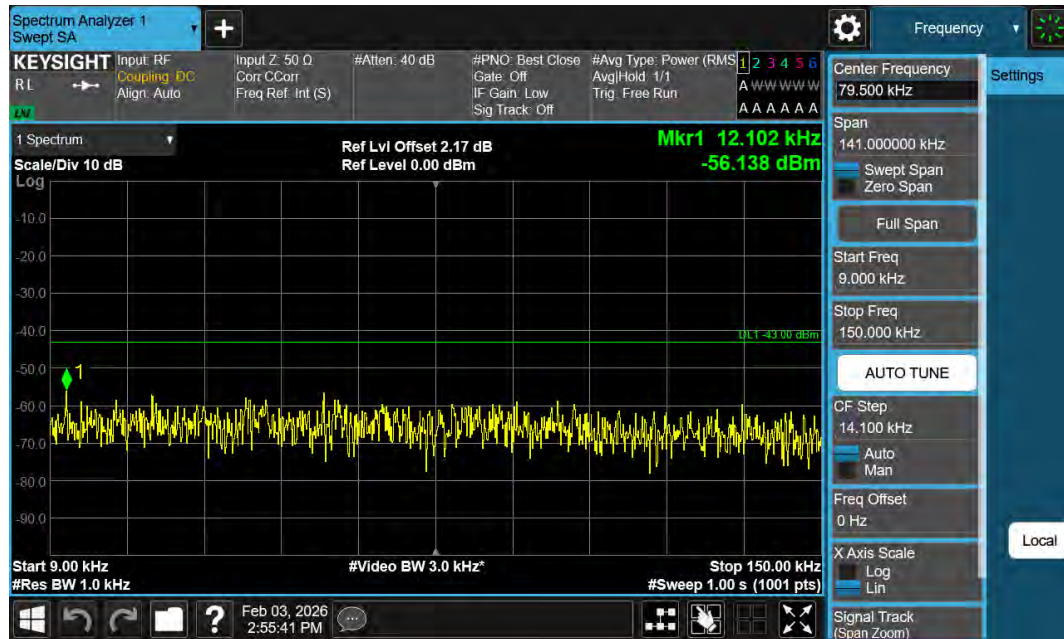
Test Graphs(WCDMA)



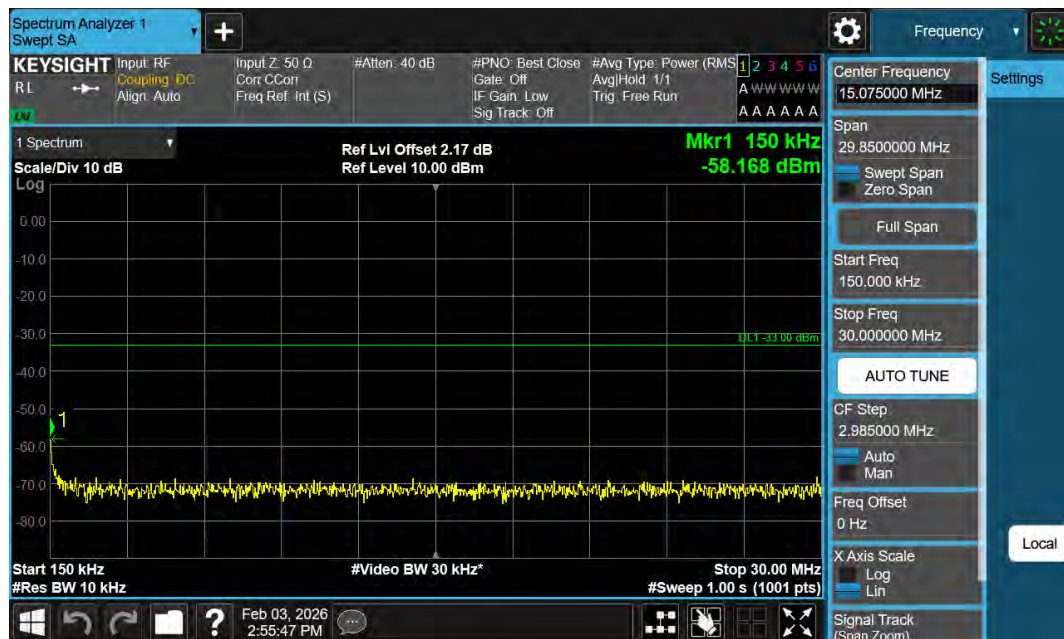


Test Graphs(HSDPA)

Band4-1312-1-0.009~0.15MHz-PASS



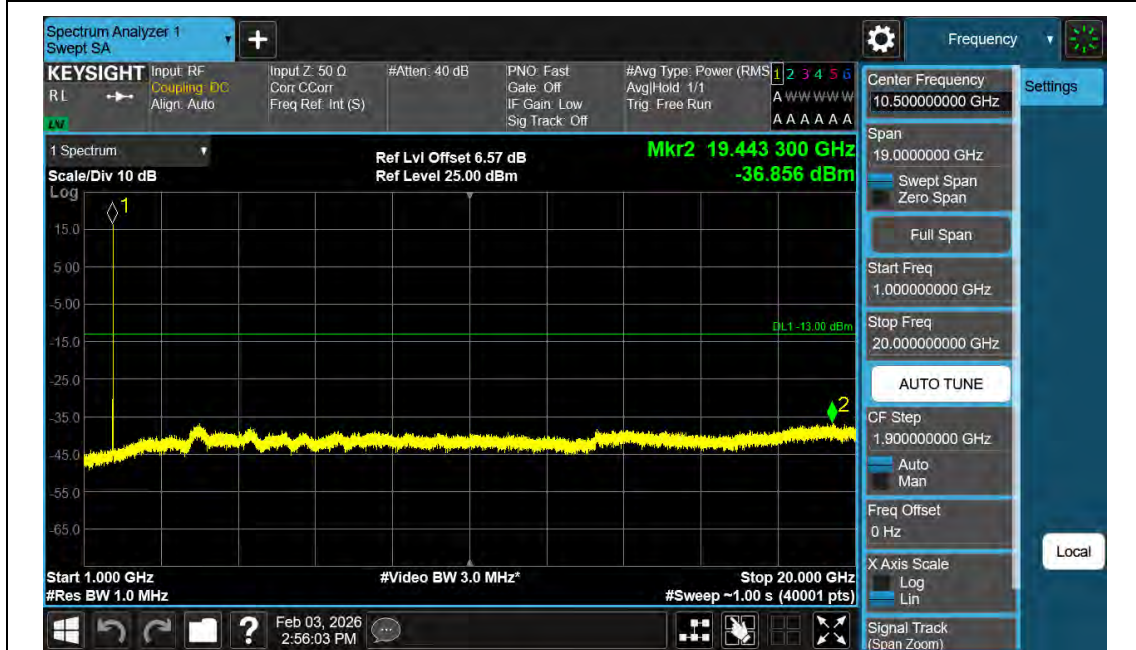
Band4-1312-1-0.15~30MHz-PASS



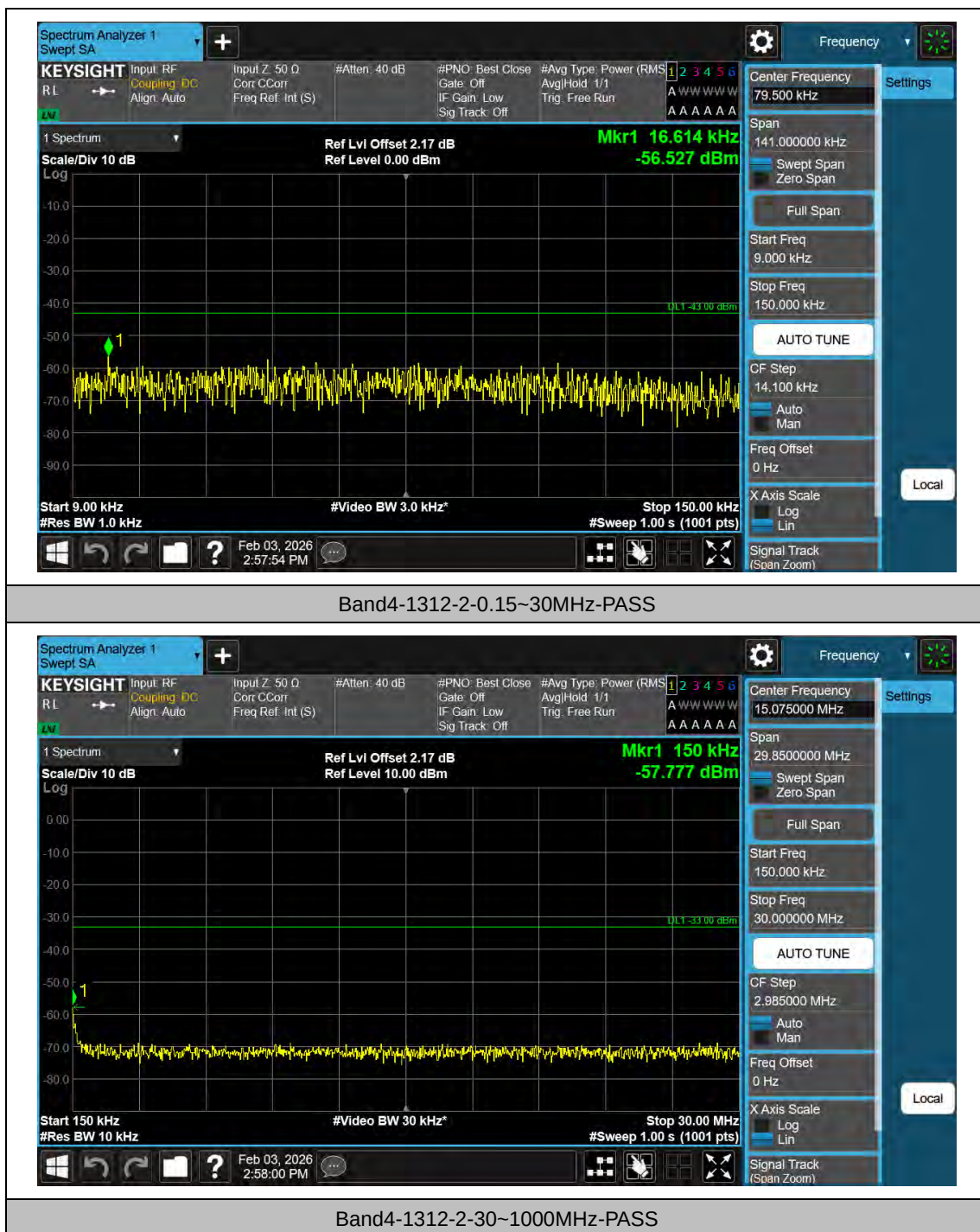
Band4-1312-1-30~1000MHz-PASS



Band4-1312-1-1000~20000MHz-PASS

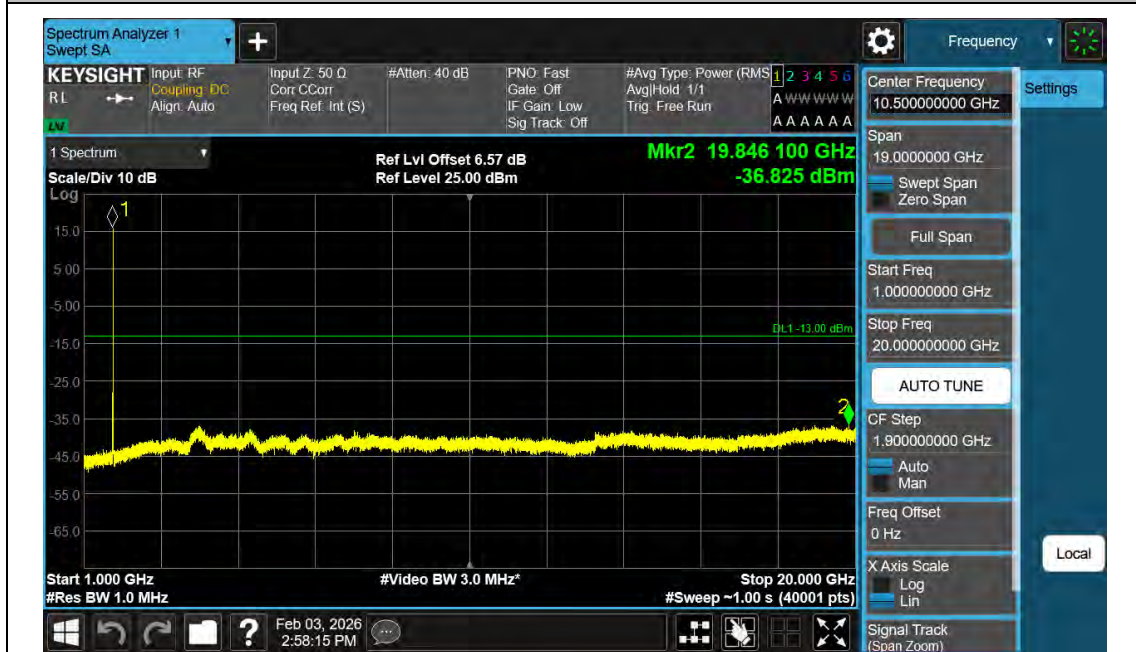


Band4-1312-2-0.009~0.15MHz-PASS





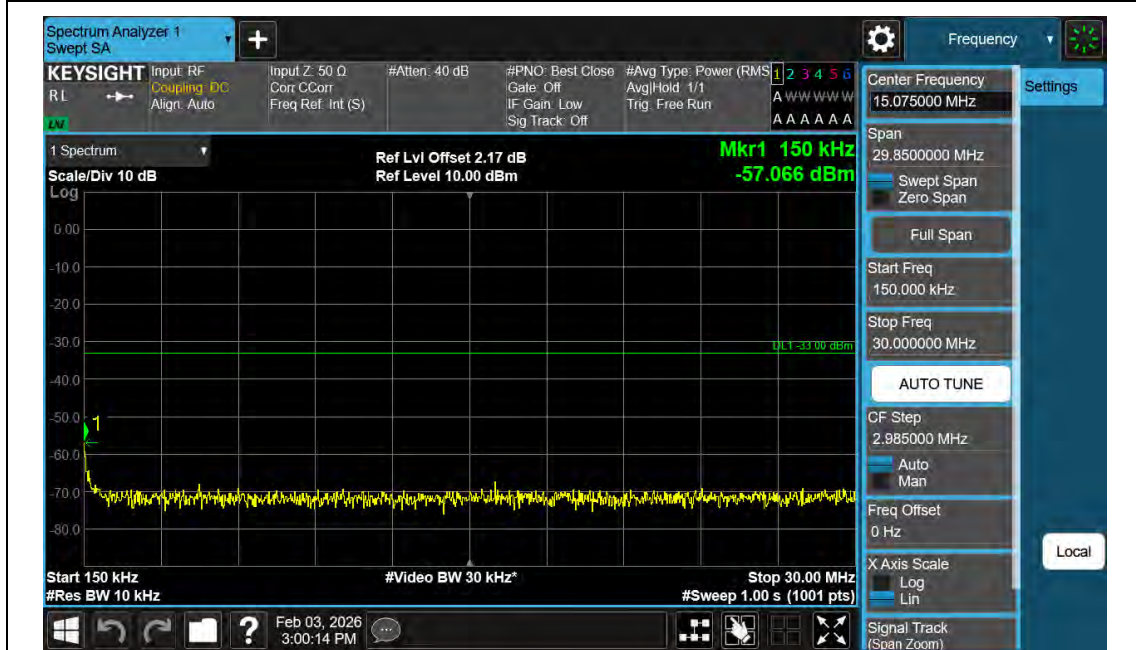
Band4-1312-2-1000~20000MHz-PASS



Band4-1312-3-0.009~0.15MHz-PASS



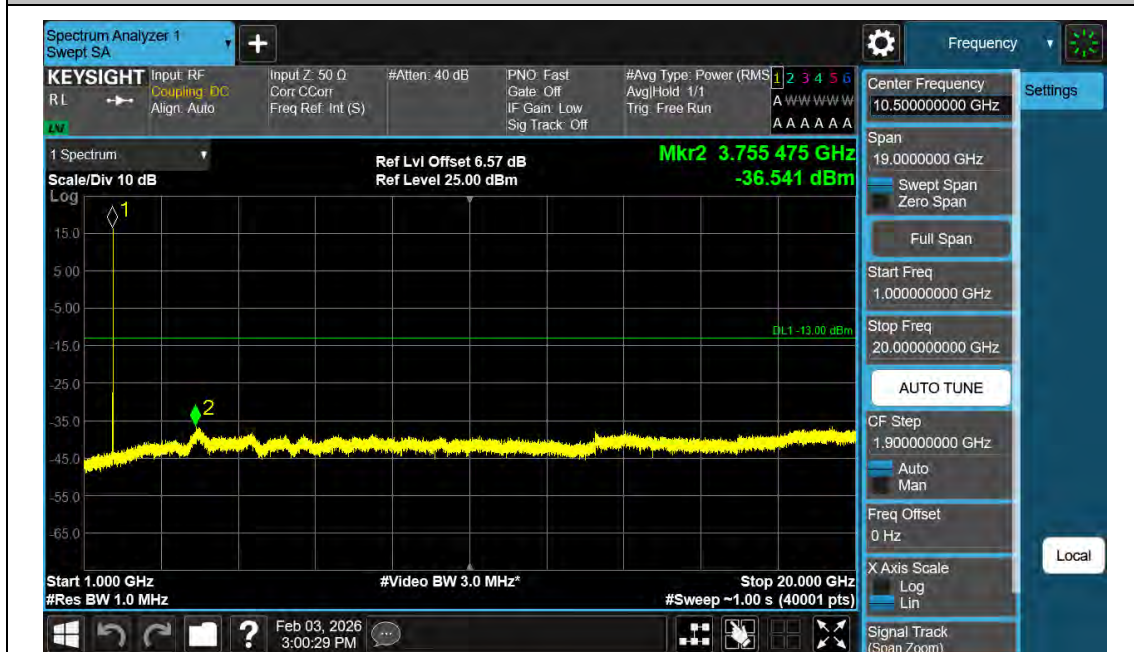
Band4-1312-3-0.15~30MHz-PASS



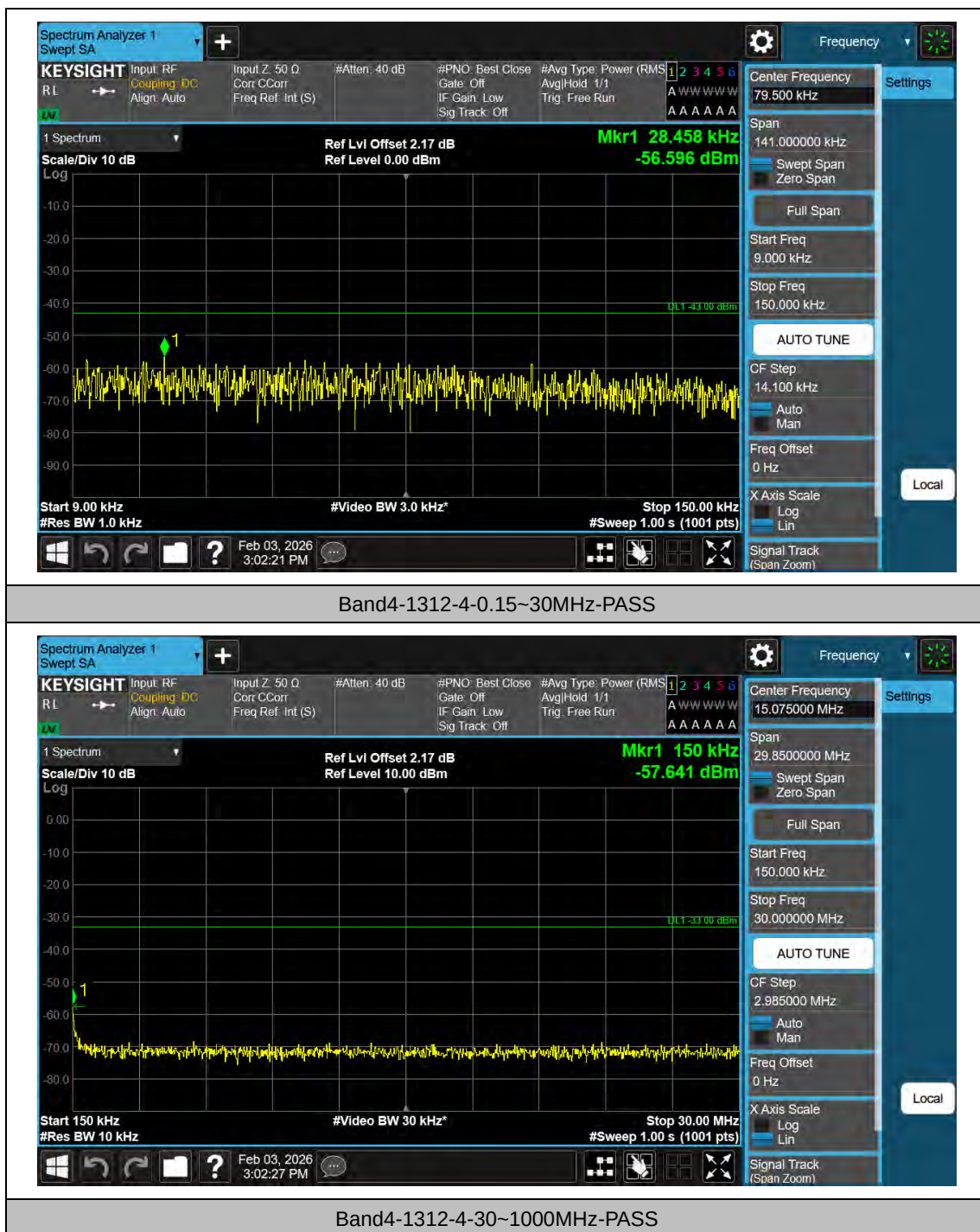
Band4-1312-3-30~1000MHz-PASS

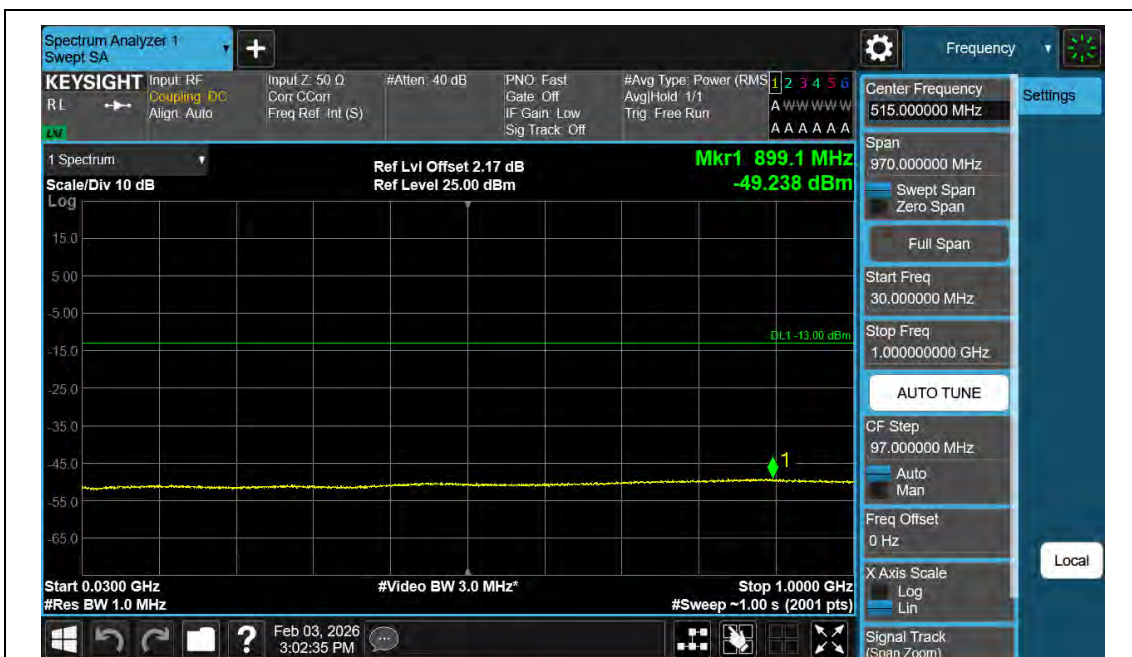


Band4-1312-3-1000~20000MHz-PASS

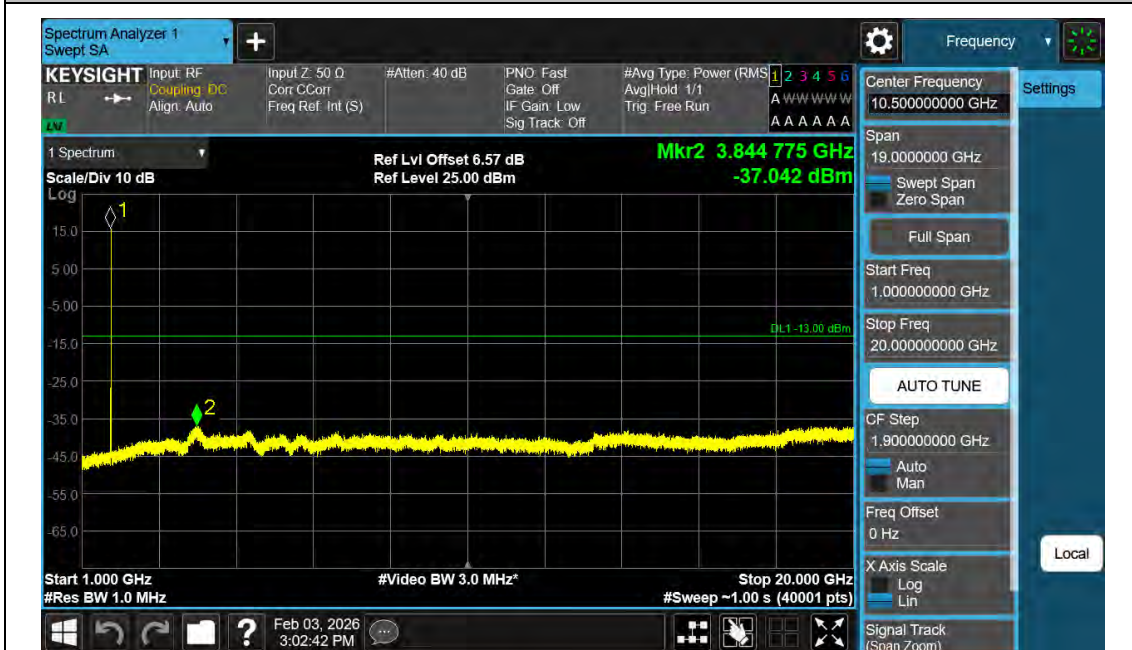


Band4-1312-4-0.009~0.15MHz-PASS

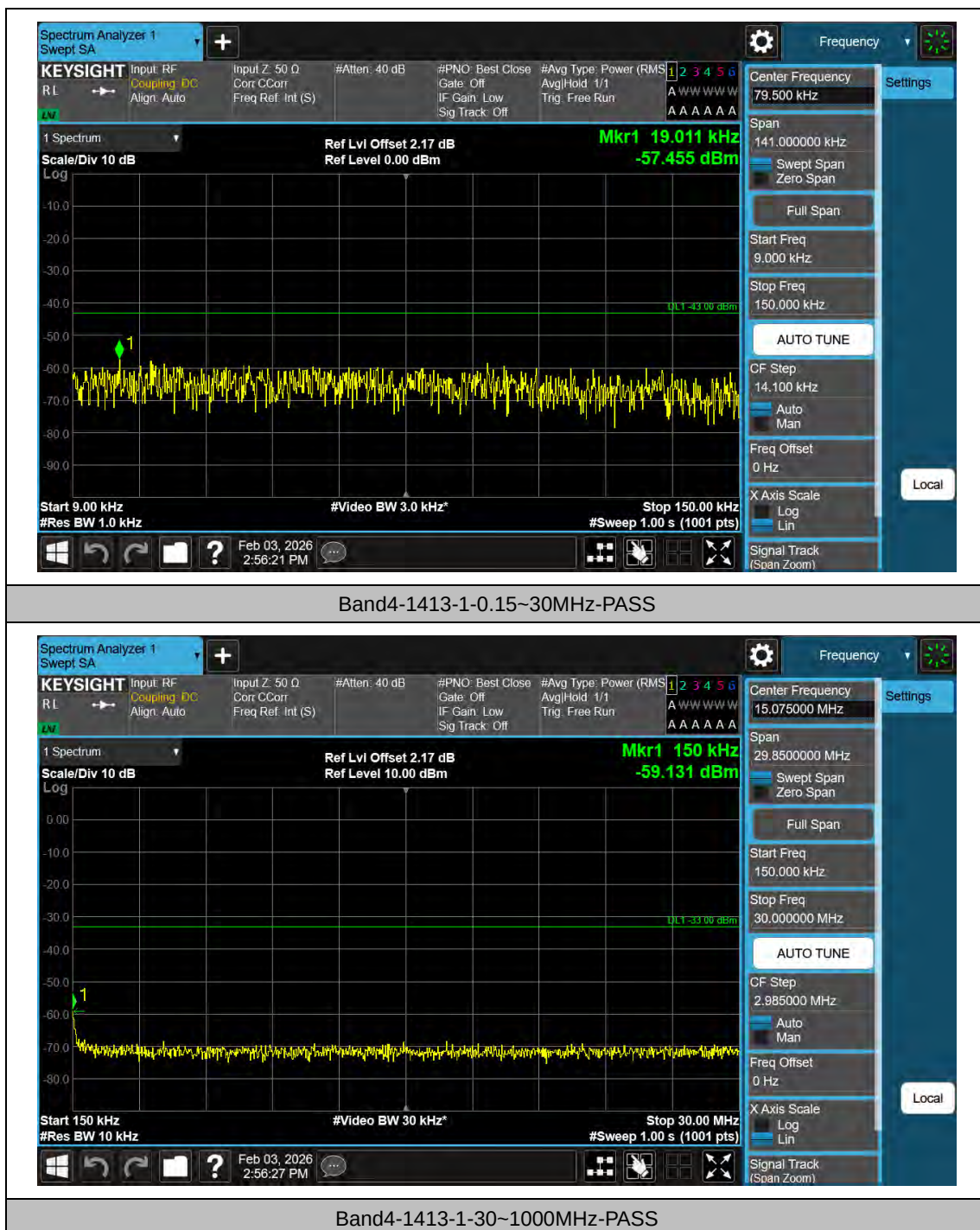




Band4-1312-4-1000~20000MHz-PASS

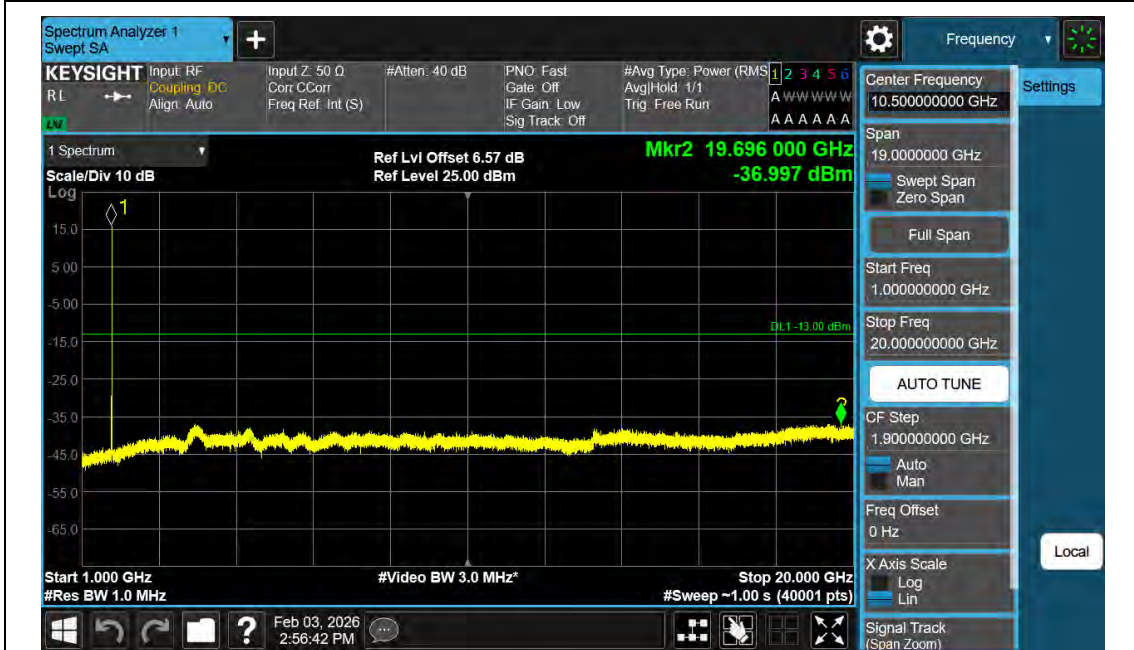


Band4-1413-1-0.009~0.15MHz-PASS

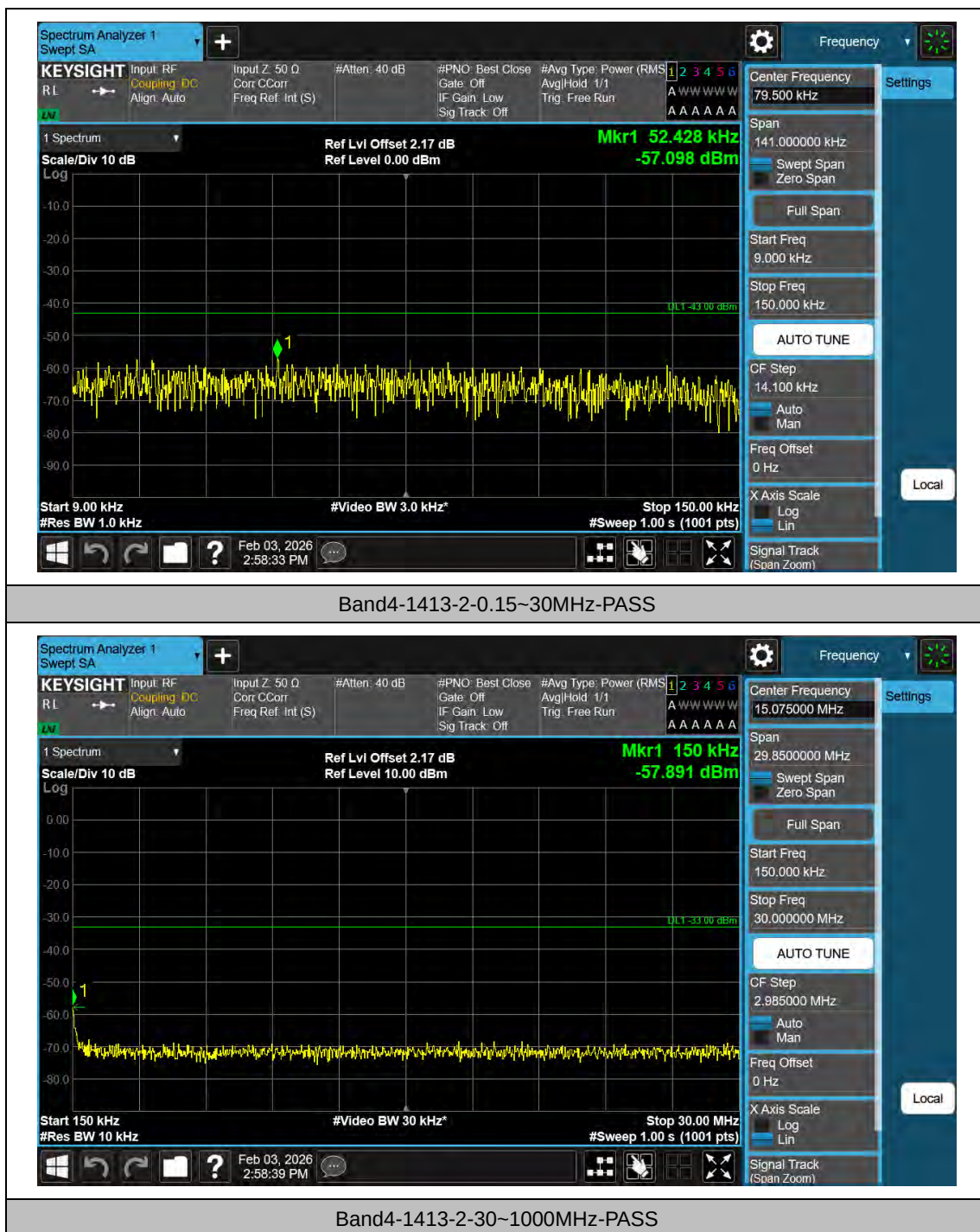


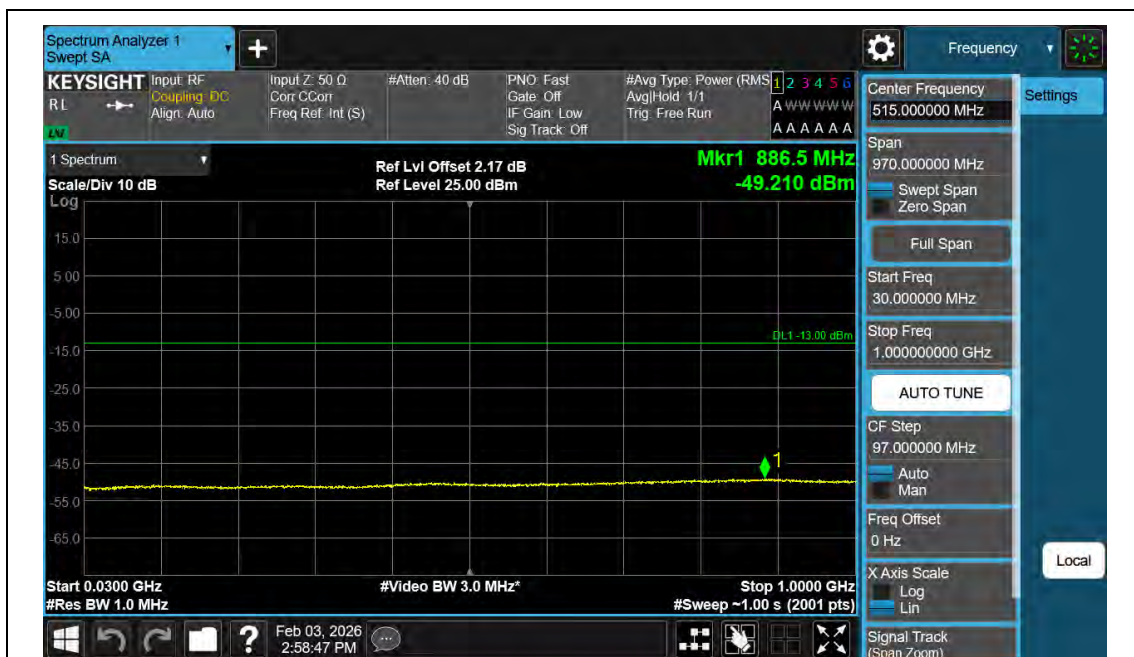


Band4-1413-1-1000~20000MHz-PASS

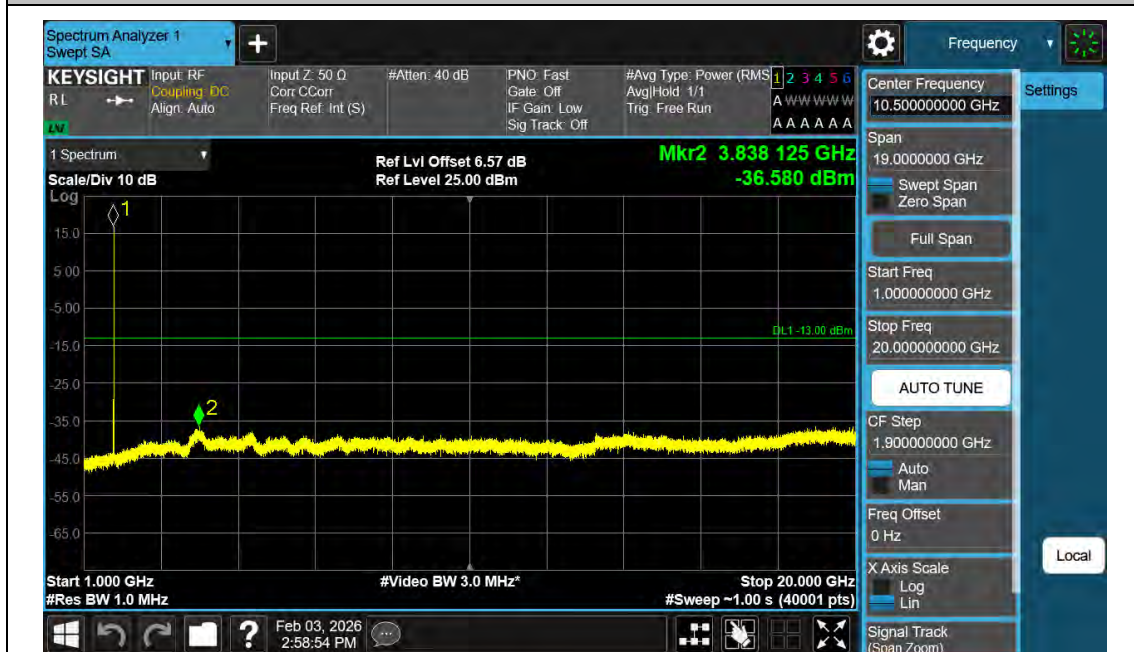


Band4-1413-2-0.009~0.15MHz-PASS

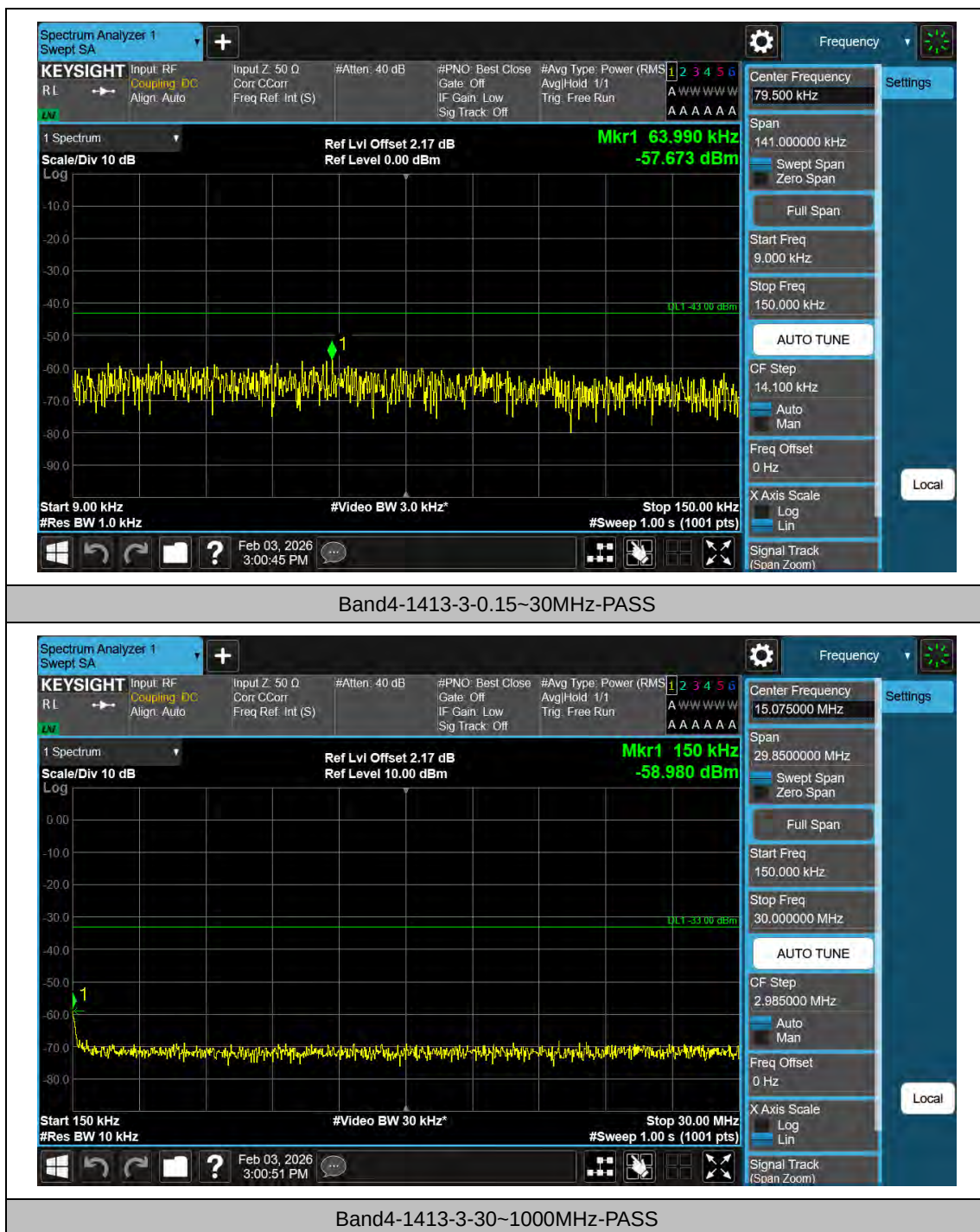




Band4-1413-2-1000~20000MHz-PASS

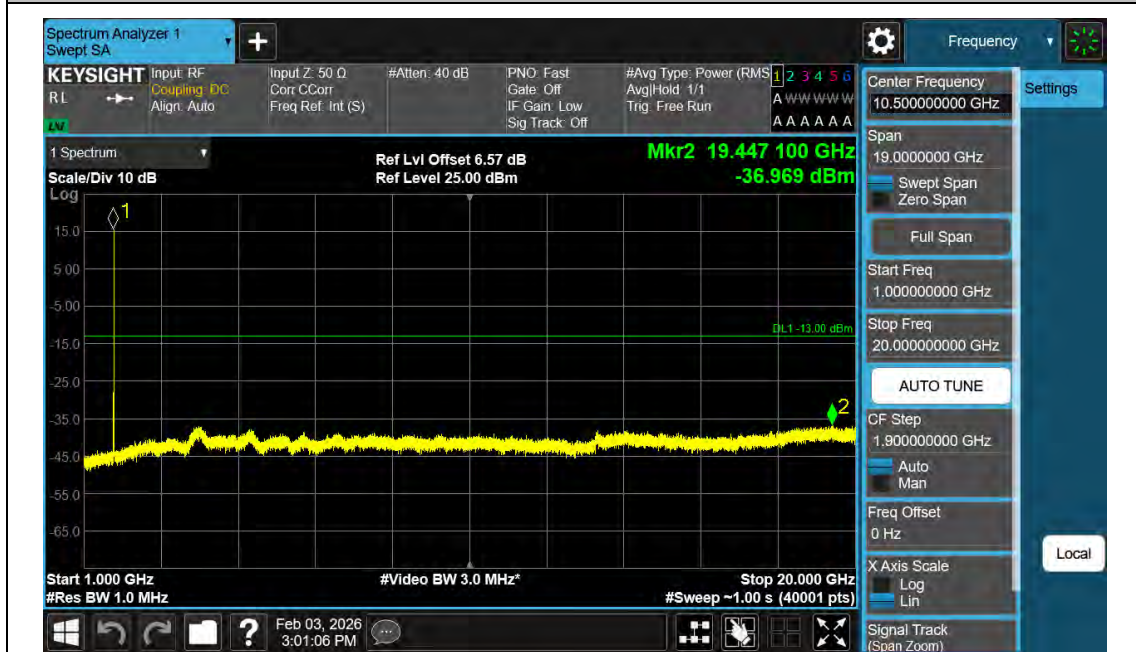


Band4-1413-3-0.009~0.15MHz-PASS

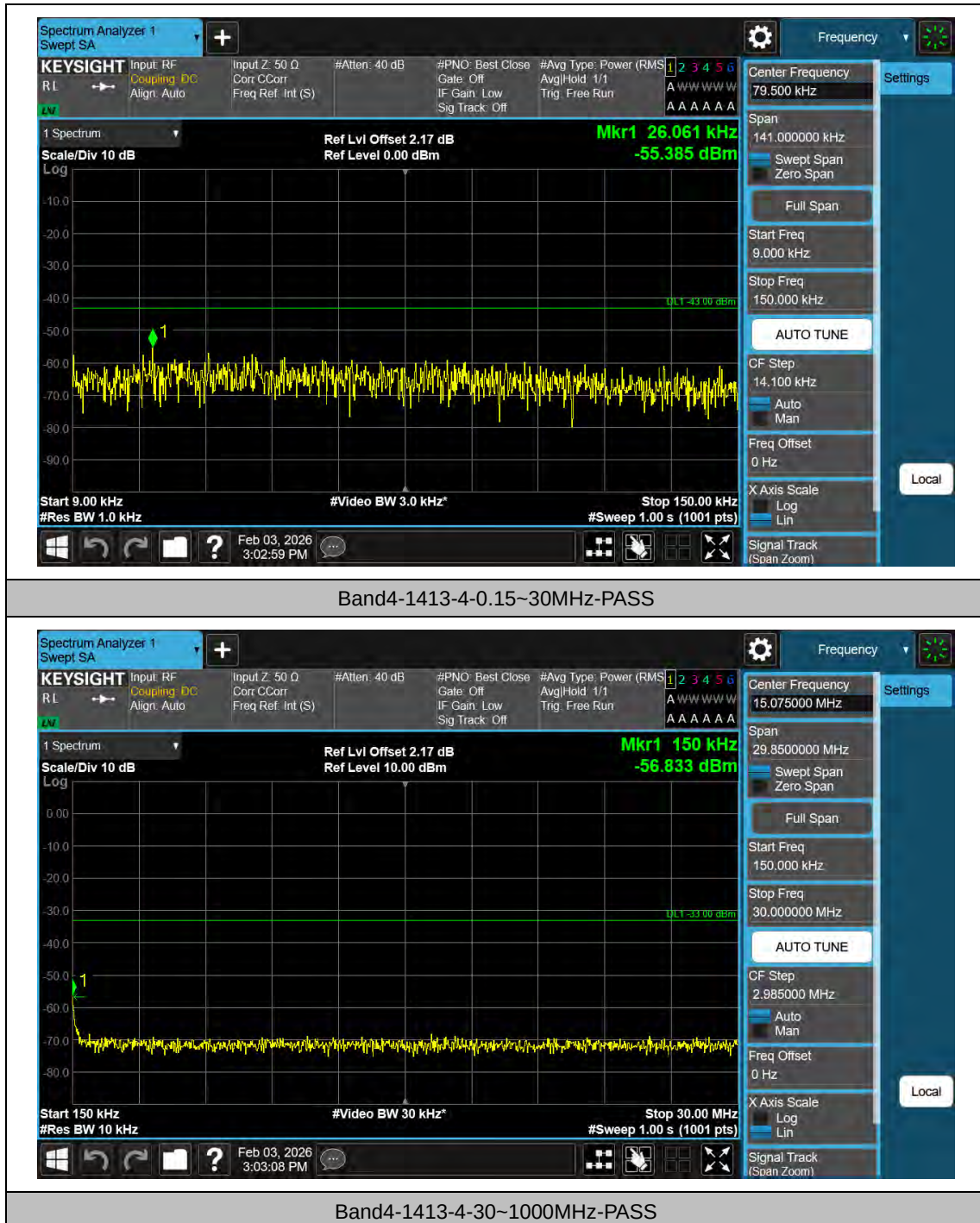


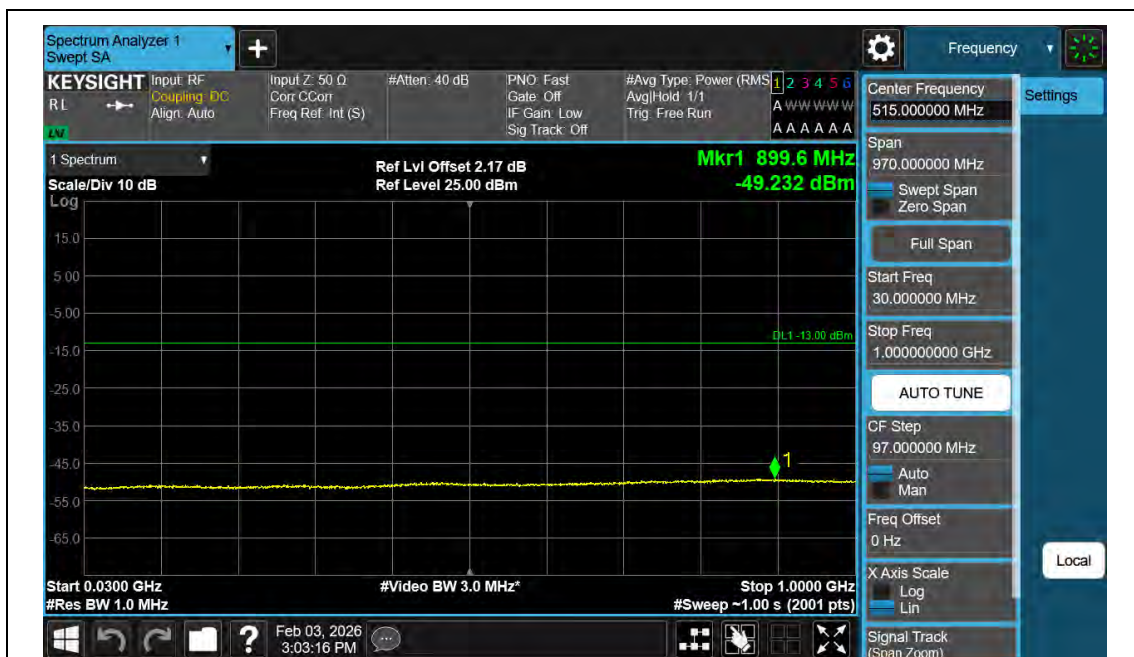


Band4-1413-3-1000~20000MHz-PASS

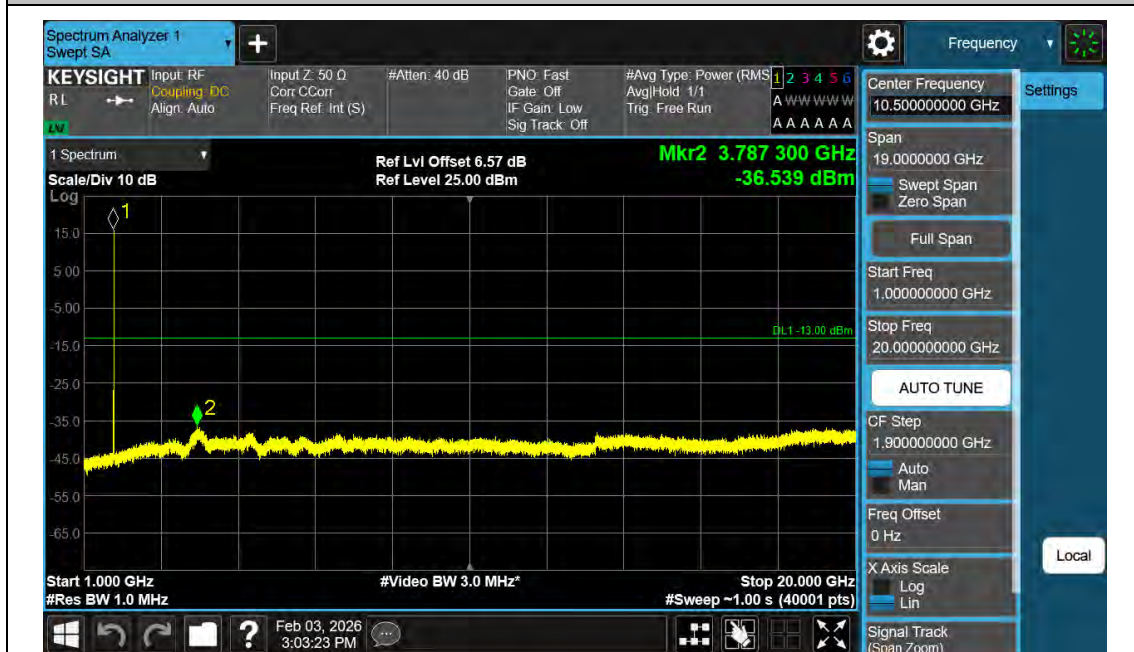


Band4-1413-4-0.009~0.15MHz-PASS

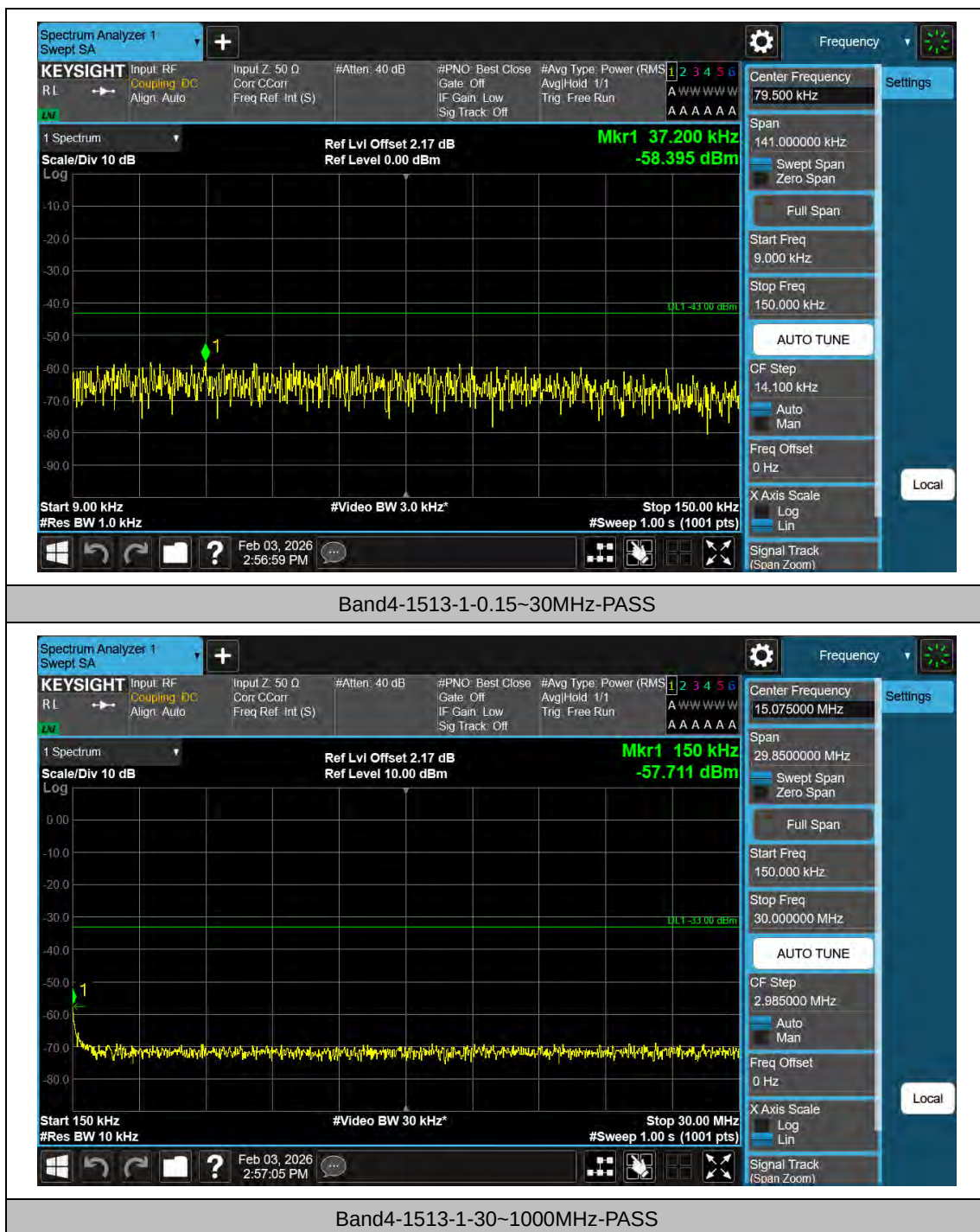


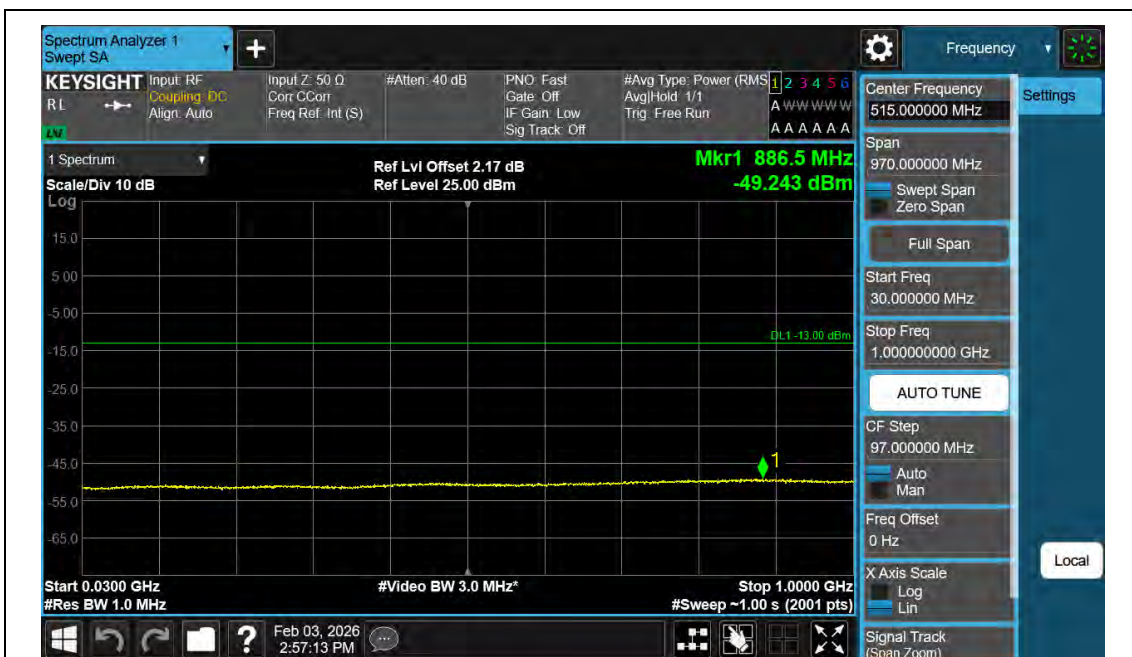


Band4-1413-4-1000~20000MHz-PASS

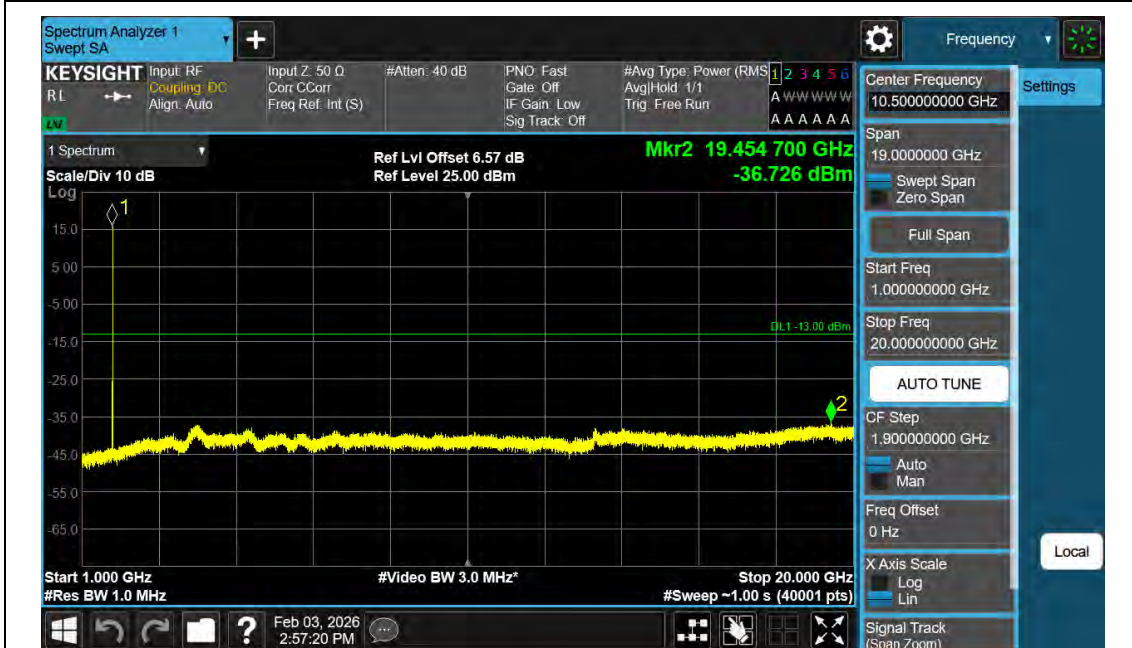


Band4-1513-1-0.009~0.15MHz-PASS

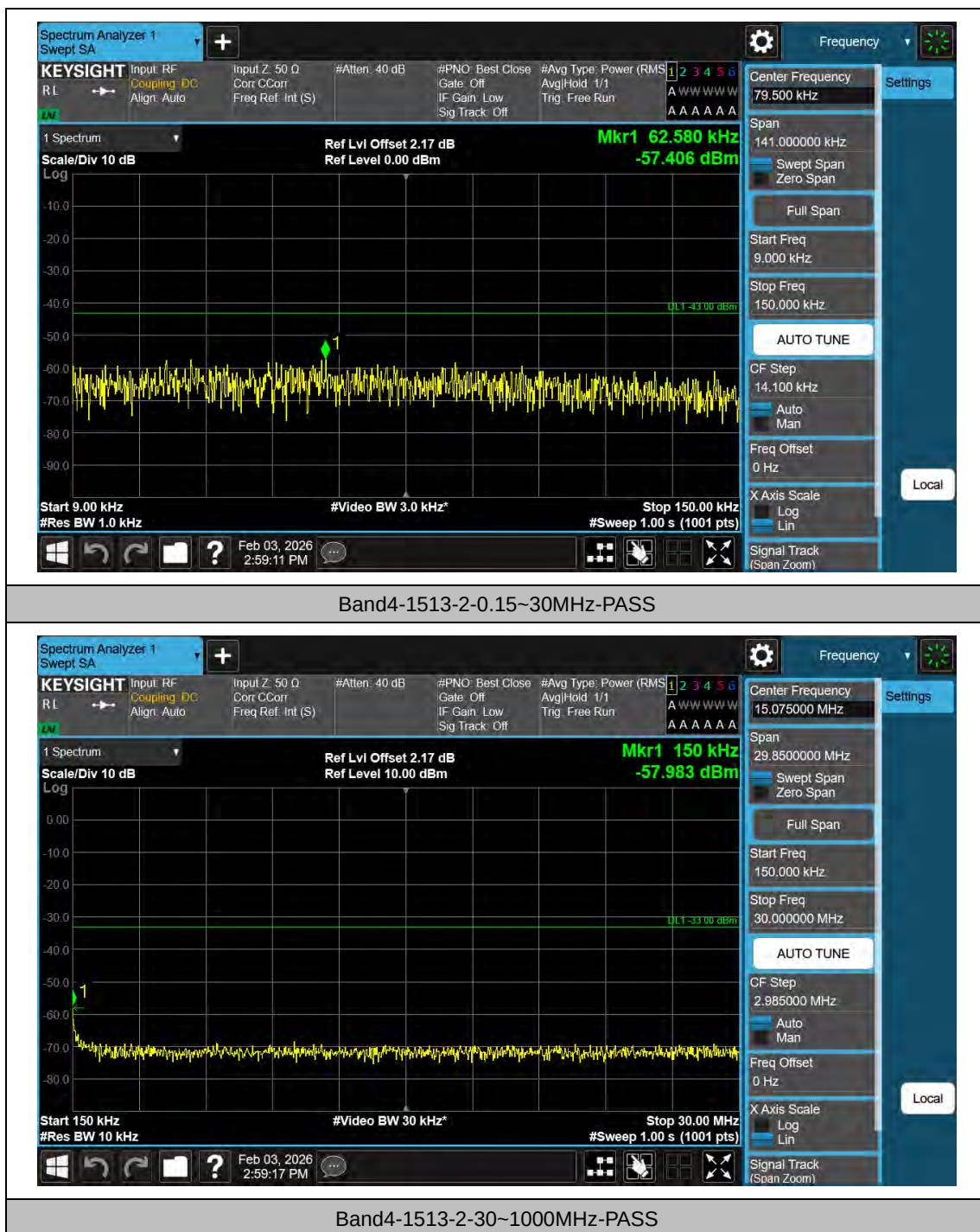


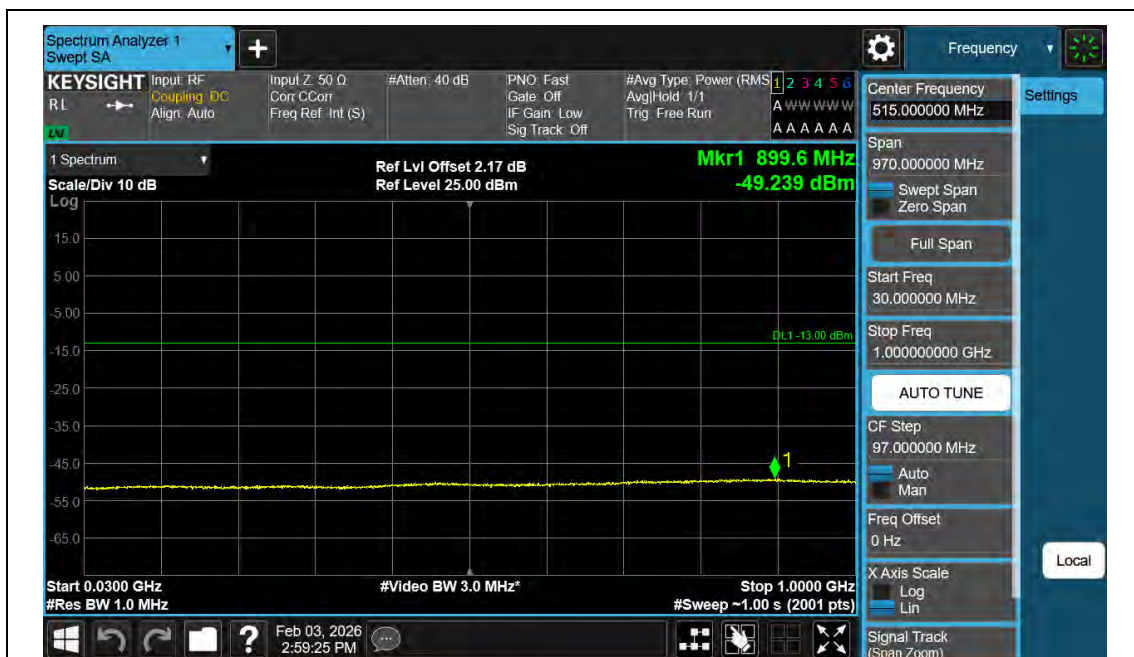


Band4-1513-1-1000~20000MHz-PASS

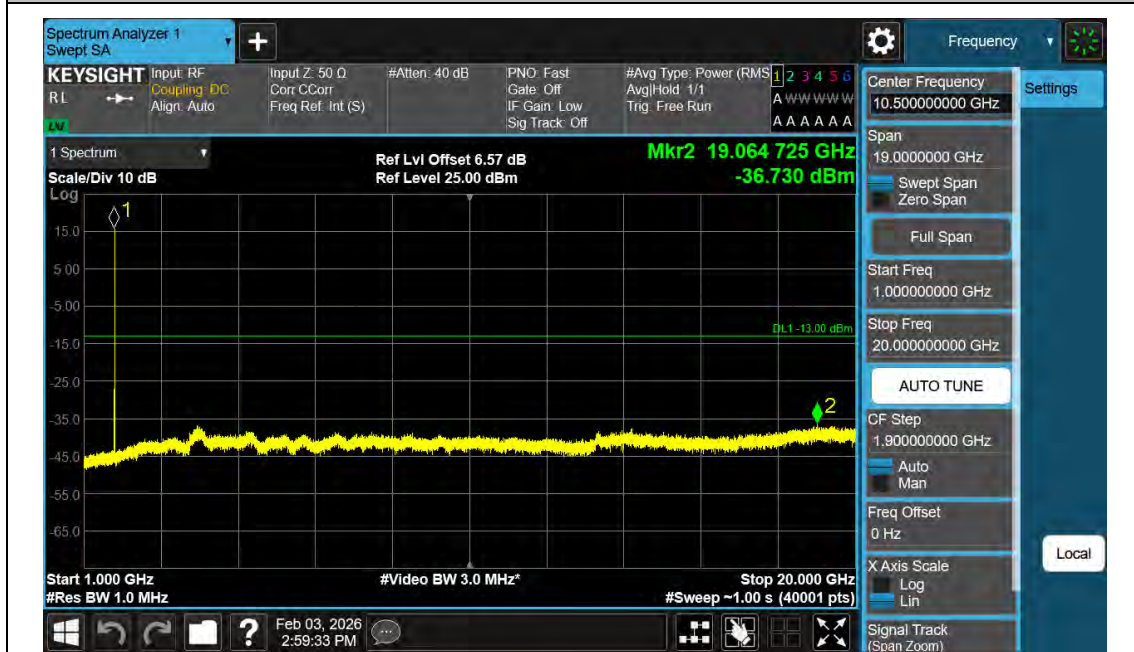


Band4-1513-2-0.009~0.15MHz-PASS

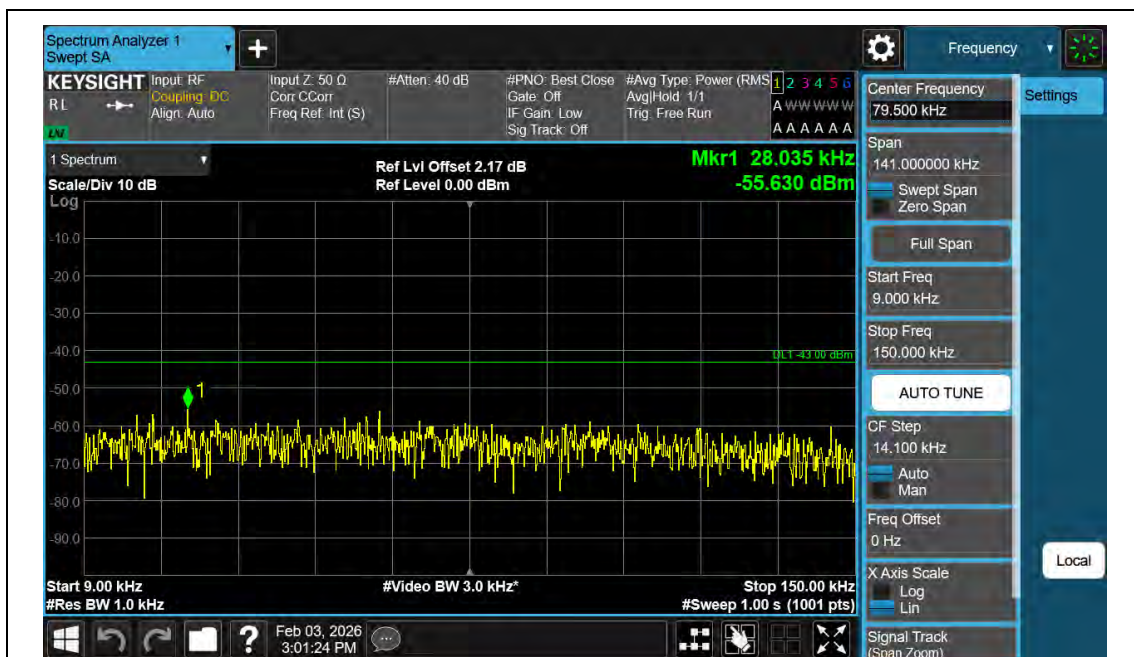




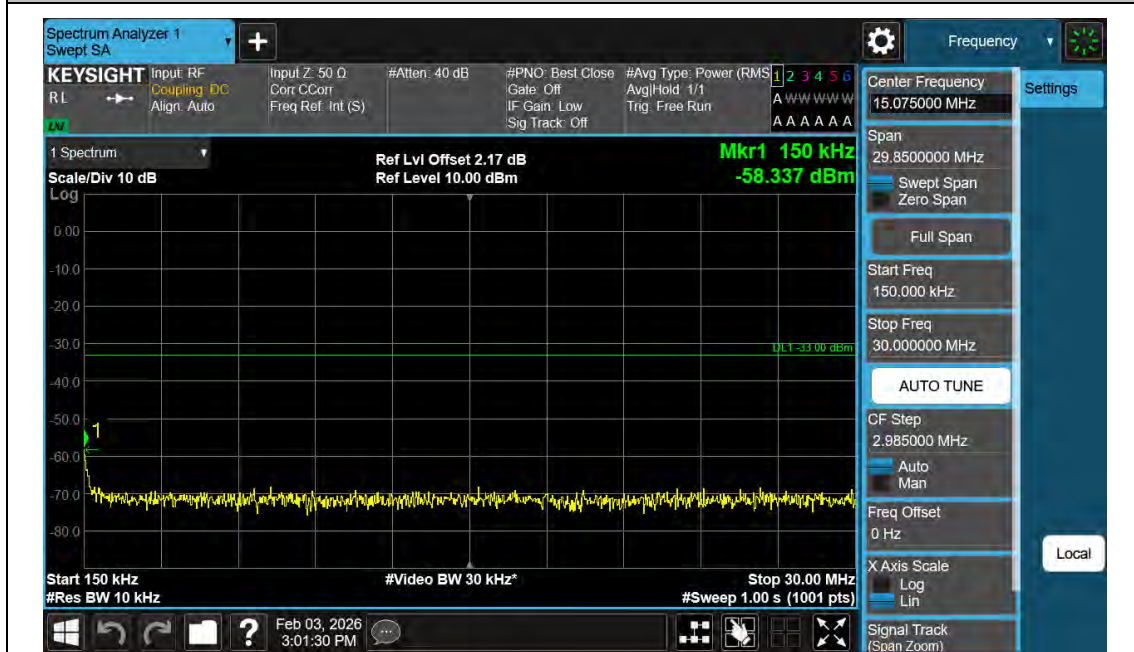
Band4-1513-2-1000~20000MHz-PASS



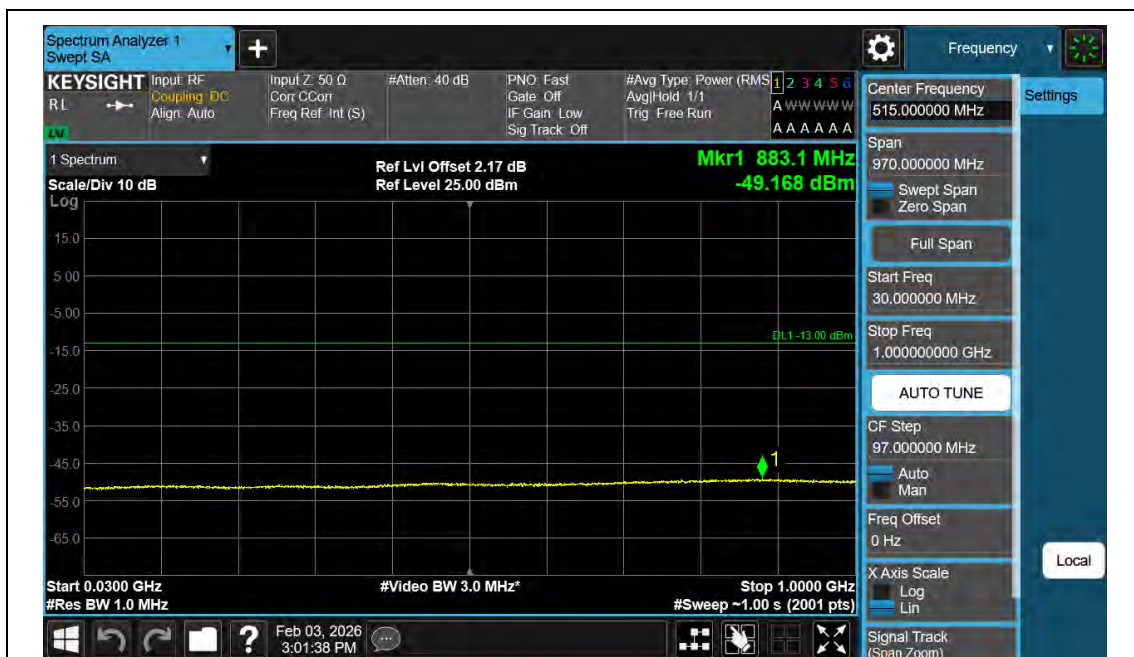
Band4-1513-3-0.009~0.15MHz-PASS



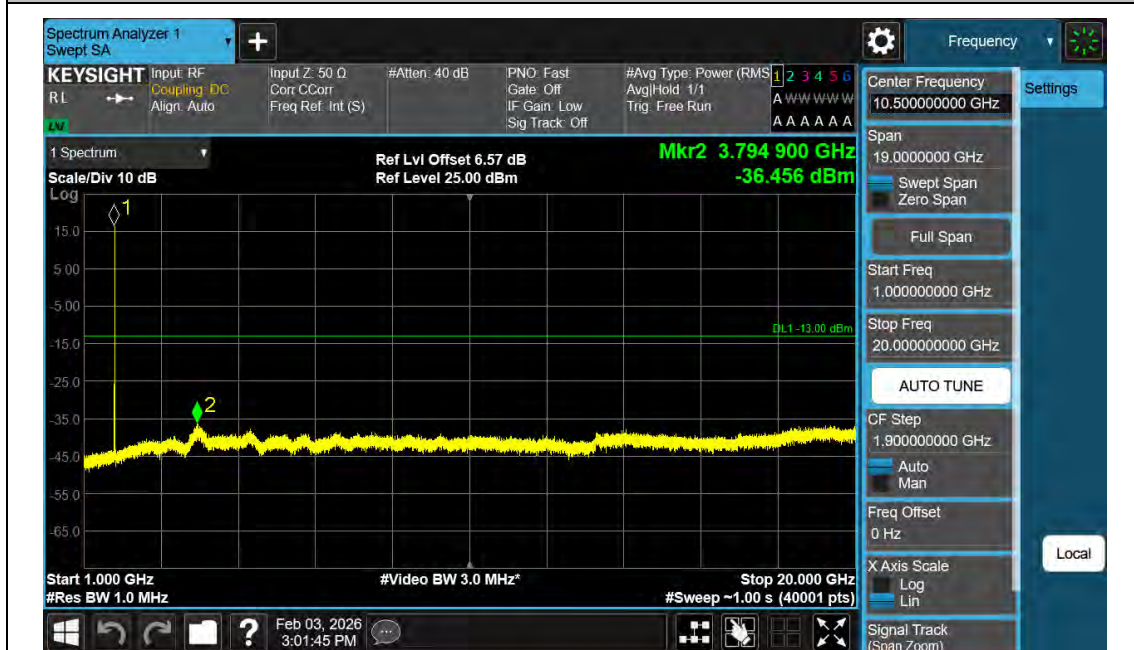
Band4-1513-3-0.15~30MHz-PASS



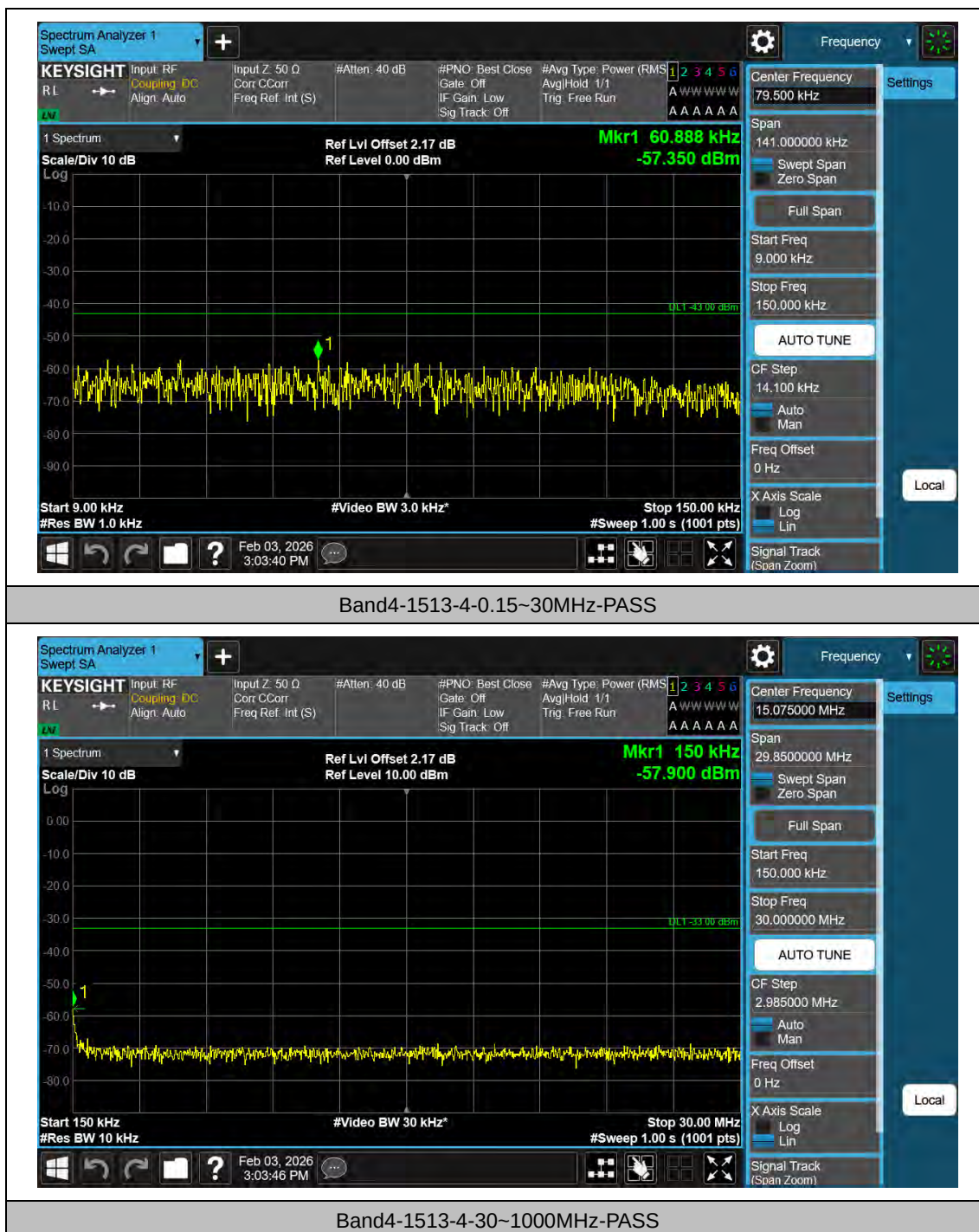
Band4-1513-3-30~1000MHz-PASS



Band4-1513-3-1000~20000MHz-PASS

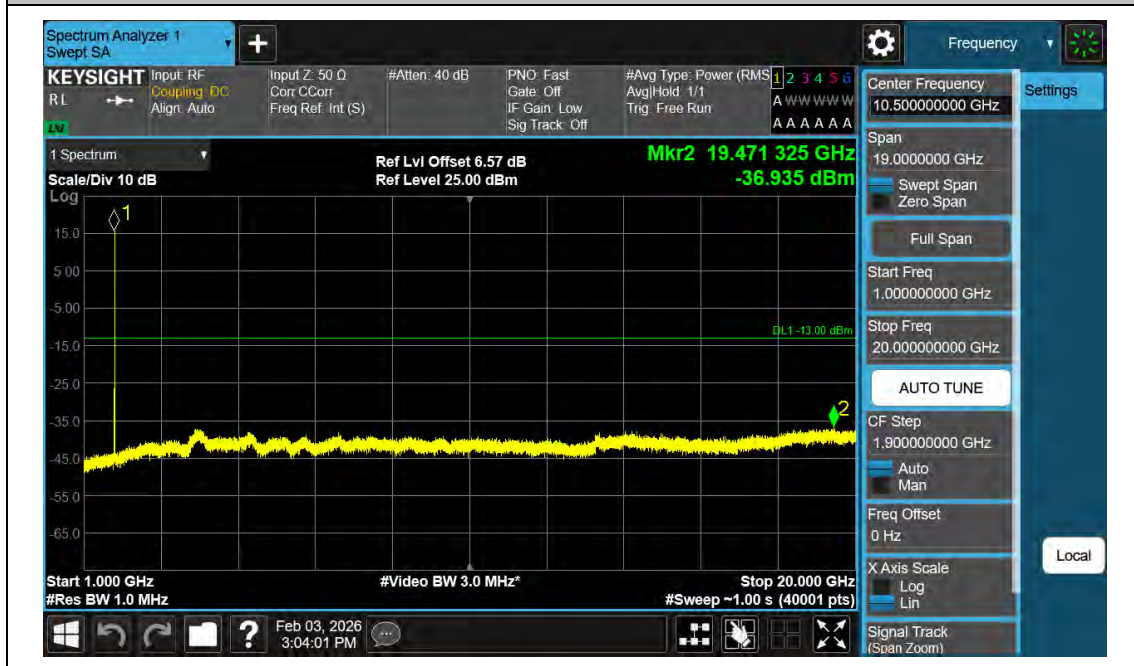


Band4-1513-4-0.009~0.15MHz-PASS





Band4-1513-4-1000~20000MHz-PASS



Appendix F: Frequency Stability

Test Result (WCDMA)

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	1312	VN	NT	-11330.00	-6.616445	±NA	PASS
Band4	1312	VL	NT	-13820.00	-8.070544	±NA	PASS
Band4	1312	VH	NT	-13550.00	-7.912871	±NA	PASS
Band4	1413	VN	NT	-11450.00	-6.608565	±NA	PASS
Band4	1413	VL	NT	-14350.00	-8.282350	±NA	PASS
Band4	1413	VH	NT	-15490.00	-8.940321	±NA	PASS
Band4	1513	VN	NT	-9960.00	-5.682985	±NA	PASS
Band4	1513	VL	NT	-10260.00	-5.854160	±NA	PASS
Band4	1513	VH	NT	-4580.00	-2.613260	±NA	PASS

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	1312	NV	-30	-11500.00	-6.715721	±NA	PASS
Band4	1312	NV	-20	-13680.00	-7.988788	±NA	PASS
Band4	1312	NV	-10	-13210.00	-7.714319	±NA	PASS
Band4	1312	NV	0	-8730.00	-5.098108	±NA	PASS
Band4	1312	NV	10	-3460.00	-2.020556	±NA	PASS
Band4	1312	NV	20	-10140.00	-5.921514	±NA	PASS
Band4	1312	NV	30	-5590.00	-3.264424	±NA	PASS
Band4	1312	NV	40	-7180.00	-4.192946	±NA	PASS
Band4	1312	NV	50	-9740.00	-5.687923	±NA	PASS
Band4	1413	NV	-30	-13750.00	-7.936050	±NA	PASS
Band4	1413	NV	-20	-18120.00	-10.458271	±NA	PASS
Band4	1413	NV	-10	-19290.00	-11.133557	±NA	PASS
Band4	1413	NV	0	-11100.00	-6.406557	±NA	PASS
Band4	1413	NV	10	-15550.00	-8.974951	±NA	PASS
Band4	1413	NV	20	-21640.00	-12.489900	±NA	PASS
Band4	1413	NV	30	-14750.00	-8.513217	±NA	PASS
Band4	1413	NV	40	-13280.00	-7.664781	±NA	PASS
Band4	1413	NV	50	-14880.00	-8.588249	±NA	PASS
Band4	1513	NV	-30	-10770.00	-6.145156	±NA	PASS
Band4	1513	NV	-20	-15420.00	-8.798357	±NA	PASS
Band4	1513	NV	-10	-8380.00	-4.781468	±NA	PASS
Band4	1513	NV	0	-12490.00	-7.126555	±NA	PASS
Band4	1513	NV	10	-7330.00	-4.182358	±NA	PASS

Band4	1513	NV	20	-10070.00	-5.745749	±NA	PASS
Band4	1513	NV	30	-8390.00	-4.787173	±NA	PASS
Band4	1513	NV	40	-7170.00	-4.091065	±NA	PASS
Band4	1513	NV	50	-13370.00	-7.628666	±NA	PASS

Test Result(HSDPA)

Voltage								
Band	Channel	Sub Test	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	1312	1	VN	NT	1.50	0.000876	±2.5	PASS
Band4	1312	1	VL	NT	2.10	0.001226	±2.5	PASS
Band4	1312	1	VH	NT	2.78	0.001623	±2.5	PASS
Band4	1413	1	VN	NT	-2.75	-0.001587	±2.5	PASS
Band4	1413	1	VL	NT	-2.54	-0.001466	±2.5	PASS
Band4	1413	1	VH	NT	1.74	0.001004	±2.5	PASS
Band4	1513	1	VN	NT	-2.41	-0.001375	±2.5	PASS
Band4	1513	1	VL	NT	-6.52	-0.003720	±2.5	PASS
Band4	1513	1	VH	NT	-2.64	-0.001506	±2.5	PASS

Temperature								
Band	Channel	Sub Test	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	1312	1	NV	-30	2.55	0.001489	±2.5	PASS
Band4	1312	1	NV	-20	-0.79	-0.000461	±2.5	PASS
Band4	1312	1	NV	-10	2.13	0.001244	±2.5	PASS
Band4	1312	1	NV	0	1.85	0.001080	±2.5	PASS
Band4	1312	1	NV	10	3.89	0.002272	±2.5	PASS
Band4	1312	1	NV	20	2.72	0.001588	±2.5	PASS
Band4	1312	1	NV	30	2.48	0.001448	±2.5	PASS
Band4	1312	1	NV	40	5.41	0.003159	±2.5	PASS
Band4	1312	1	NV	50	1.10	0.000642	±2.5	PASS
Band4	1413	1	NV	-30	1.26	0.000727	±2.5	PASS
Band4	1413	1	NV	-20	-2.48	-0.001431	±2.5	PASS
Band4	1413	1	NV	-10	0.46	0.000265	±2.5	PASS
Band4	1413	1	NV	0	-1.99	-0.001149	±2.5	PASS
Band4	1413	1	NV	10	3.70	0.002136	±2.5	PASS
Band4	1413	1	NV	20	-2.34	-0.001351	±2.5	PASS
Band4	1413	1	NV	30	1.28	0.000739	±2.5	PASS
Band4	1413	1	NV	40	2.91	0.001680	±2.5	PASS
Band4	1413	1	NV	50	-0.53	-0.000306	±2.5	PASS
Band4	1513	1	NV	-30	-2.26	-0.001290	±2.5	PASS
Band4	1513	1	NV	-20	-0.50	-0.000285	±2.5	PASS



Band4	1513	1	NV	-10	-1.01	-0.000576	±2.5	PASS
Band4	1513	1	NV	0	-3.17	-0.001809	±2.5	PASS
Band4	1513	1	NV	10	-6.92	-0.003948	±2.5	PASS
Band4	1513	1	NV	20	-7.57	-0.004319	±2.5	PASS
Band4	1513	1	NV	30	-2.14	-0.001221	±2.5	PASS
Band4	1513	1	NV	40	-0.72	-0.000411	±2.5	PASS
Band4	1513	1	NV	50	-2.98	-0.001700	±2.5	PASS