

WCDMA Band4 Test Data

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AppendixA: Effective (Isotropic) Radiated Power Output Data

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AppendixA: Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Channel	Power(dBm)	Limit(dBm)	Verdict
Band4	1312	20.34	30.00	PASS
Band4	1413	23.17	30.00	PASS
Band4	1513	23.03	30.00	PASS

Band	Channel	SubTest	Power(dBm)	Limit(dBm)	Verdict
Band4	1312	1	21.82	30.00	PASS
Band4	1312	2	21.19	30.00	PASS
Band4	1312	3	21.21	30.00	PASS
Band4	1312	4	21.13	30.00	PASS
Band4	1413	1	22.03	30.00	PASS
Band4	1413	2	21.47	30.00	PASS
Band4	1413	3	21.51	30.00	PASS
Band4	1413	4	21.41	30.00	PASS
Band4	1513	1	22.02	30.00	PASS
Band4	1513	2	21.45	30.00	PASS
Band4	1513	3	21.37	30.00	PASS
Band4	1513	4	21.39	30.00	PASS

Band	Channel	SubTest	Power(dBm)	Limit(dBm)	Verdict
Band4	1312	1	21.43	30.00	PASS
Band4	1312	2	20.33	30.00	PASS
Band4	1312	3	20.55	30.00	PASS
Band4	1312	4	20.48	30.00	PASS
Band4	1312	5	21.53	30.00	PASS
Band4	1413	1	21.76	30.00	PASS
Band4	1413	2	20.57	30.00	PASS
Band4	1413	3	20.28	30.00	PASS
Band4	1413	4	21.29	30.00	PASS
Band4	1413	5	21.76	30.00	PASS
Band4	1513	1	21.33	30.00	PASS

Band4	1513	2	20.82	30.00	PASS
Band4	1513	3	19.85	30.00	PASS
Band4	1513	4	21.15	30.00	PASS
Band4	1513	5	21.78	30.00	PASS



AppendixB:Peak-to-Average Ratio

Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band4	1312	3.21	13	PASS
Band4	1413	3.15	13	PASS
Band4	1513	3.15	13	PASS

Band	Channel	SubTest	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band4	1312	1	3.24	13	PASS
Band4	1312	2	3.72	13	PASS
Band4	1312	3	3.92	13	PASS
Band4	1312	4	3.96	13	PASS
Band4	1413	1	3.19	13	PASS
Band4	1413	2	3.5	13	PASS
Band4	1413	3	3.7	13	PASS
Band4	1413	4	3.74	13	PASS
Band4	1513	1	3.19	13	PASS
Band4	1513	2	3.57	13	PASS
Band4	1513	3	3.77	13	PASS
Band4	1513	4	3.83	13	PASS

Band	Channel	SubTest	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band4	1312	1	4.6	13	PASS
Band4	1312	2	5.34	13	PASS
Band4	1312	3	5.35	13	PASS
Band4	1312	4	4.99	13	PASS
Band4	1312	5	4.41	13	PASS
Band4	1413	1	4.36	13	PASS
Band4	1413	2	3.18	13	PASS
Band4	1413	3	3.67	13	PASS
Band4	1413	4	3.19	13	PASS
Band4	1413	5	4.33	13	PASS
Band4	1513	1	4.33	13	PASS

Band4	1513	2	5.41	13	PASS
Band4	1513	3	5.04	13	PASS
Band4	1513	4	5.32	13	PASS
Band4	1513	5	4.35	13	PASS



Test Graphs

Band4-1312



Band4-1413



Band4-1513



Band4-1312-1



Band4-1312-2



Band4-1312-3



Band4-1312-4



Band4-1413-1



Band4-1413-2



Band4-1413-3



Band4-1413-4



Band4-1513-1



Band4-1513-2



Band4-1513-3



Band4-1513-4



Band4-1312-1



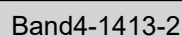
Band4-1312-2



Band4-1312-3



Band4-1312-4





Band4-1413-3



Band4-1413-4



Band4-1413-5



Band4-1513-1



Band4-1513-2



Band4-1513-3



Band4-1513-4



Band4-1513-5



AppendixC:26dB Bandwidth andOccupied Bandwidth

Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band4	1312	4.1418	4.707	---	PASS
Band4	1413	4.1460	4.717	---	PASS
Band4	1513	4.1333	4.728	---	PASS

Band	Channel	SubTest	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band4	1312	1	4.1440	4.717	---	PASS
Band4	1312	2	4.1411	4.702	---	PASS
Band4	1312	3	4.1391	4.698	---	PASS
Band4	1312	4	4.1377	4.701	---	PASS
Band4	1413	1	4.1389	4.711	---	PASS
Band4	1413	2	4.1389	4.704	---	PASS
Band4	1413	3	4.1473	4.703	---	PASS
Band4	1413	4	4.1444	4.709	---	PASS
Band4	1513	1	4.1381	4.715	---	PASS
Band4	1513	2	4.1382	4.705	---	PASS
Band4	1513	3	4.1371	4.708	---	PASS
Band4	1513	4	4.1347	4.705	---	PASS

Band	Channel	SubTest	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band4	1312	1	4.1438	4.730	---	PASS
Band4	1312	2	4.1453	4.713	---	PASS
Band4	1312	3	4.1428	4.733	---	PASS
Band4	1312	4	4.1453	4.712	---	PASS
Band4	1312	5	4.1450	4.716	---	PASS
Band4	1413	1	4.1498	4.718	---	PASS
Band4	1413	2	4.1420	4.710	---	PASS
Band4	1413	3	4.1447	4.710	---	PASS

Band4	1413	4	4.1418	4.714	---	PASS
Band4	1413	5	4.1370	4.713	---	PASS
Band4	1513	1	4.1657	4.744	---	PASS
Band4	1513	2	4.1633	4.732	---	PASS
Band4	1513	3	4.1684	4.737	---	PASS
Band4	1513	4	4.1651	4.730	---	PASS
Band4	1513	5	4.1686	4.756	---	PASS



Test Graphs

Band4-1312



Band4-1413



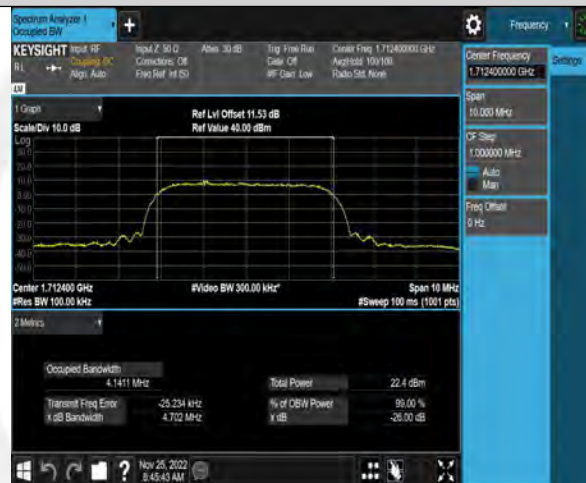
Band4-1513



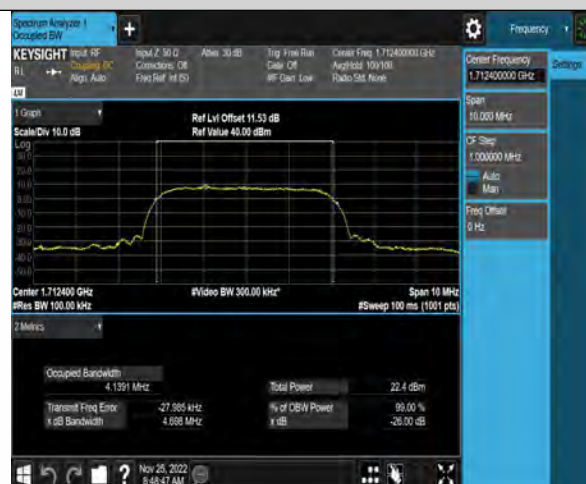
Band4-1312-1



Band4-1312-2



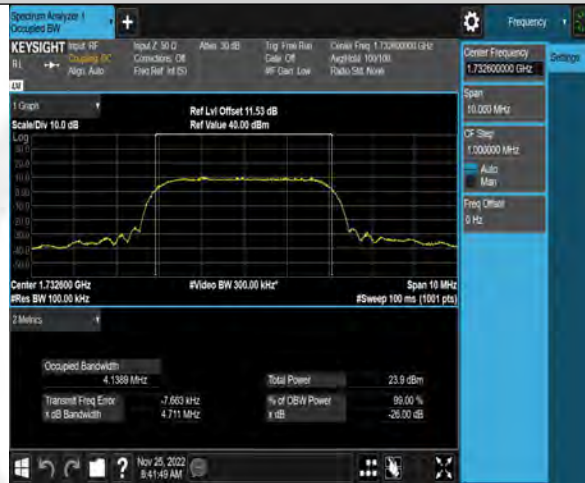
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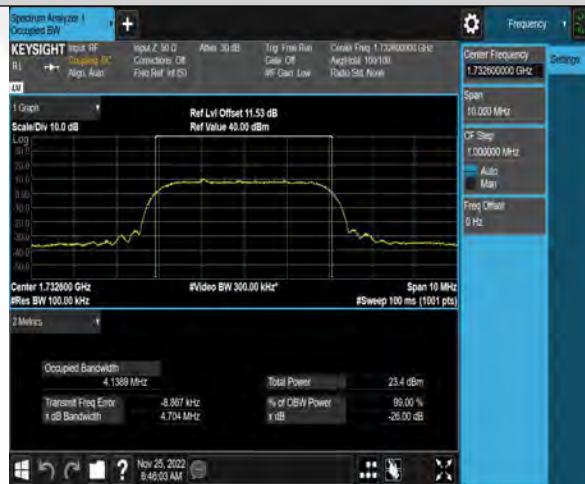
Band4-1312-4



Band4-1413-1



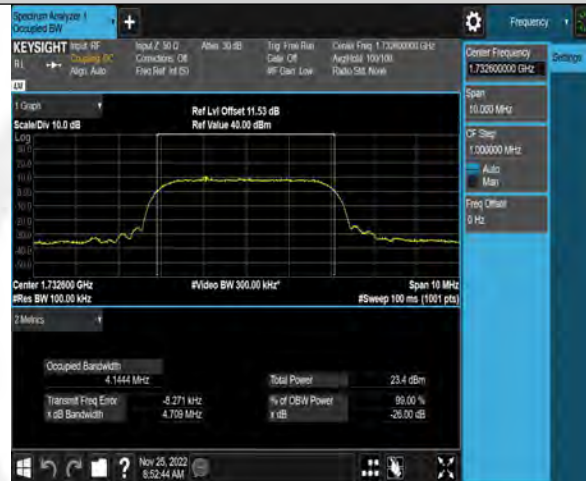
Band4-1413-2



Band4-1413-3



Band4-1413-4



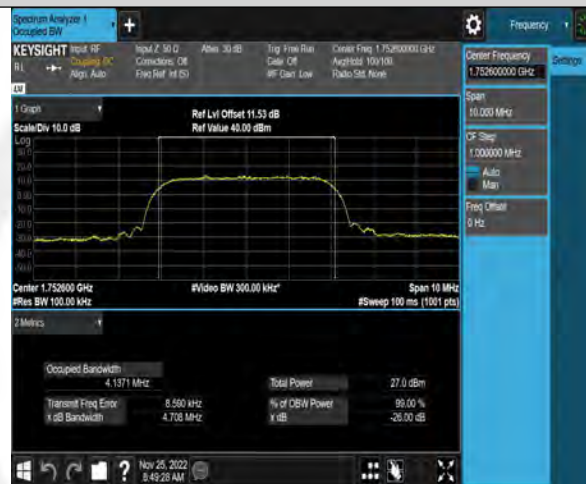
Band4-1513-1



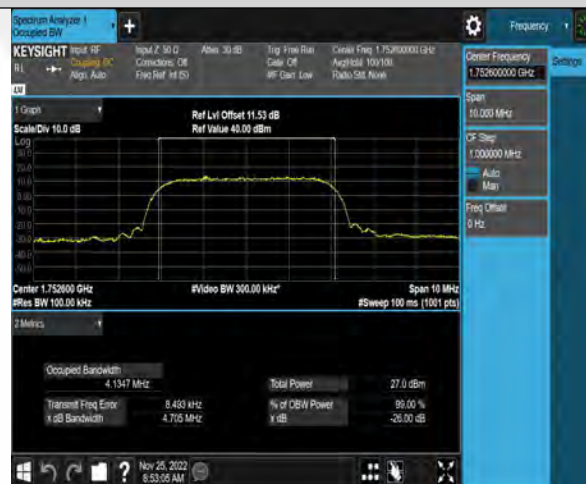
Band4-1513-2



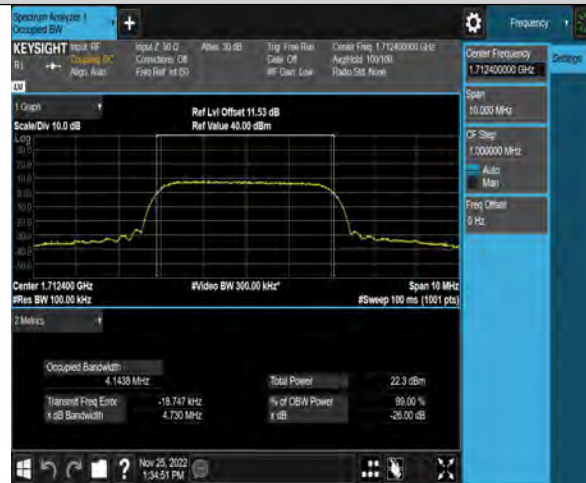
Band4-1513-3



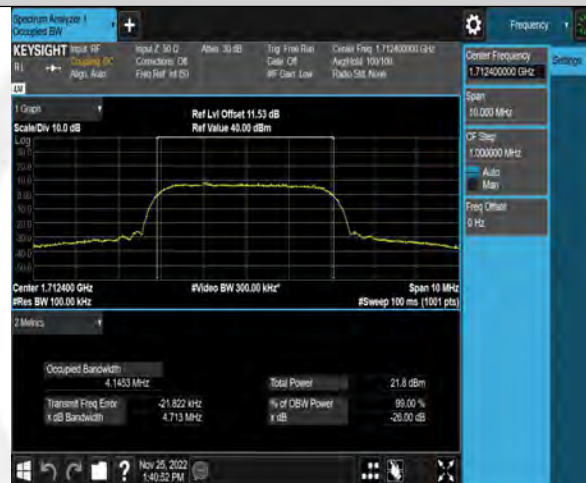
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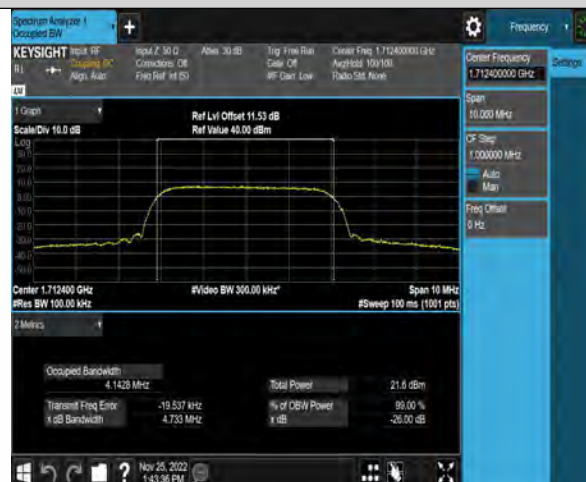
Band4-1312-1



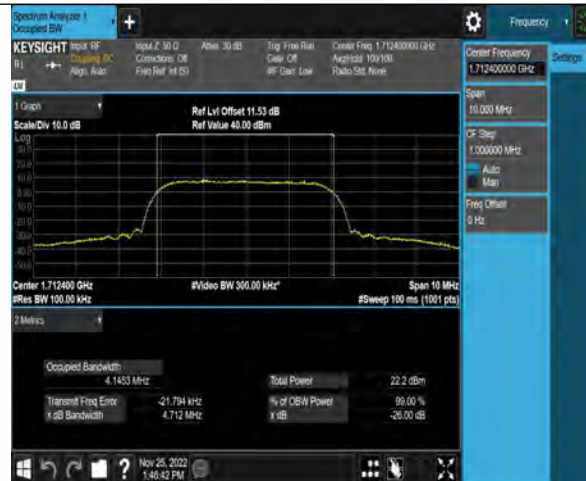
Band4-1312-2



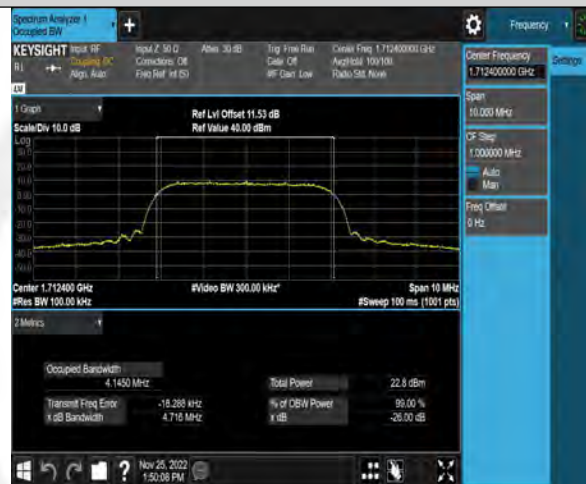
Band4-1312-3



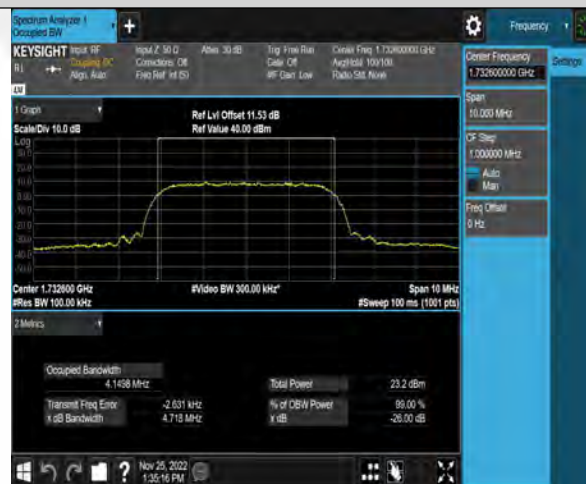
Band4-1312-4



Band4-1312-5



Band4-1413-1



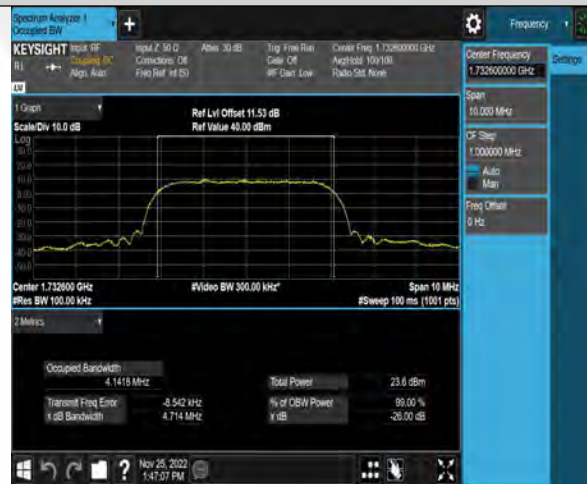
Band4-1413-2



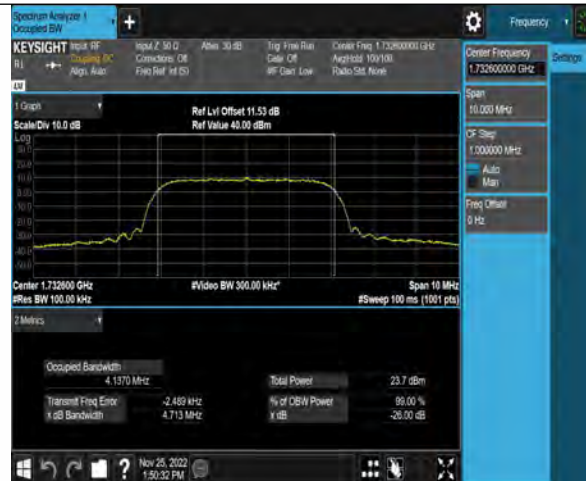
Band4-1413-3



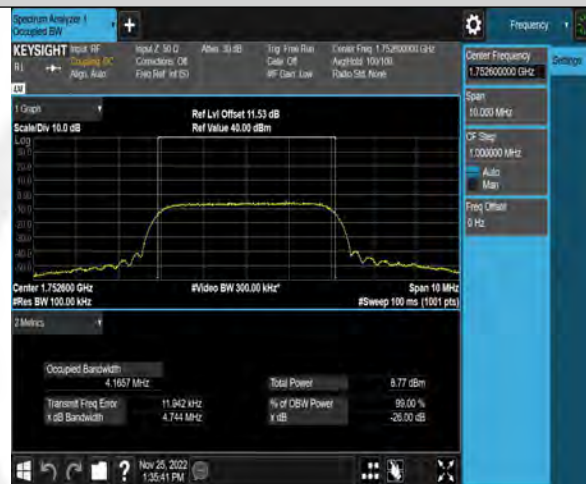
Band4-1413-4



Band4-1413-5



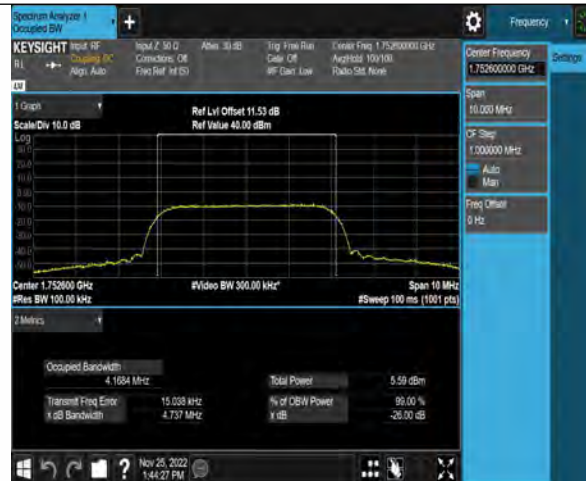
Band4-1513-1



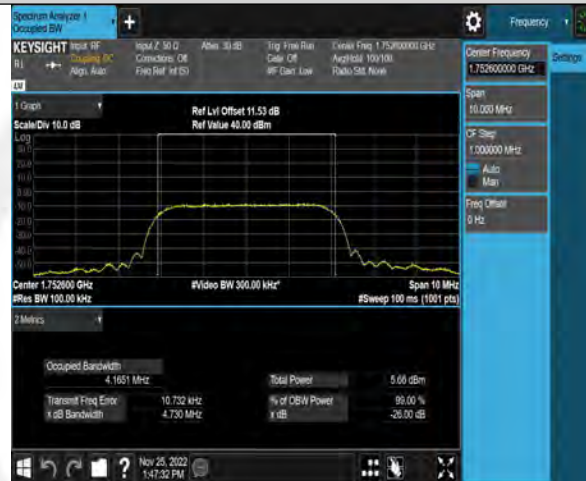
Band4-1513-2



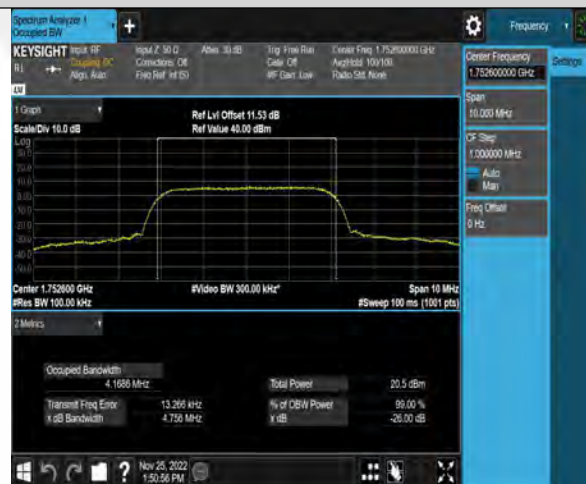
Band4-1513-3



Band4-1513-4



Band4-1513-5



AppendixD:Band Edge

Test Result

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band4	1312	1710.00	-22.64	-13	PASS
Band4	1513	1755.00	-18.17	-13	PASS

Band	Channel	SubTest	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band4	1312	1	1710.00	-23.32	-13	PASS
Band4	1312	2	1710.00	-23.28	-13	PASS
Band4	1312	3	1710.00	-23.45	-13	PASS
Band4	1312	4	1710.00	-23.48	-13	PASS
Band4	1513	1	1755.00	-18.81	-13	PASS
Band4	1513	2	1755.00	-19.03	-13	PASS
Band4	1513	3	1755.00	-19.51	-13	PASS
Band4	1513	4	1755.00	-19.41	-13	PASS

Band	Channel	SubTest	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band4	1312	1	1710.00	-23.70	-13	PASS
Band4	1312	2	1710.00	-24.23	-13	PASS
Band4	1312	3	1710.00	-24.19	-13	PASS
Band4	1312	4	1710.00	-23.62	-13	PASS
Band4	1312	5	1710.00	-28.90	-13	PASS
Band4	1513	1	1755.00	-19.54	-13	PASS
Band4	1513	2	1755.00	-18.64	-13	PASS
Band4	1513	3	1755.00	-19.50	-13	PASS
Band4	1513	4	1755.00	-18.88	-13	PASS
Band4	1513	5	1755.00	-18.40	-13	PASS

Test Graphs

Band4-1312



Band4-1513



Band4-1312-1



Band4-1312-2



Band4-1312-3



Band4-1312-4



Band4-1513-1



Band4-1513-2



Band4-1513-3



Band4-1513-4



Band4-1312-1



Band4-1312-2



Band4-1312-3



Band4-1312-4



Band4-1312-5



Band4-1513-1



Band4-1513-2



Band4-1513-3



Band4-1513-4



Band4-1513-5

Appendix E: Conducted Spurious Emission

Test Result

Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band4	1312	0.009~0.15MHz	0.15	-72.56	-43	PASS
Band4	1312	0.15~30MHz	0.15	-67.67	-33	PASS
Band4	1312	30~1000MHz	949.14	-75.67	-23	PASS
Band4	1312	1000~3000MHz	2614.33	-38.46	-13	PASS
Band4	1312	3000~10000MHz	3849.33	-50.98	-13	PASS
Band4	1312	10000~20000MHz	19372.67	-42.79	-13	PASS
Band4	1413	0.009~0.15MHz	0.15	-72.58	-43	PASS
Band4	1413	0.15~30MHz	0.16	-67.12	-33	PASS
Band4	1413	30~1000MHz	919.85	-76.24	-23	PASS
Band4	1413	1000~3000MHz	2614.53	-38.26	-13	PASS
Band4	1413	3000~10000MHz	3811.77	-50.97	-13	PASS
Band4	1413	10000~20000MHz	19458.33	-42.57	-13	PASS
Band4	1513	0.009~0.15MHz	0.15	-72.45	-43	PASS
Band4	1513	0.15~30MHz	0.15	-65.46	-33	PASS
Band4	1513	30~1000MHz	873.96	-75.28	-23	PASS
Band4	1513	1000~3000MHz	2653.33	-37.76	-13	PASS
Band4	1513	3000~10000MHz	3842.57	-50.52	-13	PASS
Band4	1513	10000~20000MHz	19426.67	-42.36	-13	PASS

Band	Channel	SubTest	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band4	1312	1	0.15~30MHz	0.15	-64.8	-33	PASS
Band4	1312	1	30~1000MHz	872.61	-75.32	-23	PASS
Band4	1312	1	1000~3000MHz	2622.6	-38.16	-13	PASS
Band4	1312	1	3000~10000MHz	3848.63	-50.11	-13	PASS
Band4	1312	1	10000~20000MHz	19427.33	-41.98	-13	PASS
Band4	1312	1	0.009~0.15MHz	0.15	-72.15	-43	PASS
Band4	1312	2	1000~3000MHz	2612.27	-37.71	-13	PASS
Band4	1312	2	0.009~0.15MHz	0.15	-72.27	-43	PASS
Band4	1312	2	3000~10000MHz	3776.07	-50.12	-13	PASS
Band4	1312	2	30~1000MHz	932.26	-76.04	-23	PASS
Band4	1312	2	0.15~30MHz	0.15	-65.58	-33	PASS

Band4	1312	2	10000~20000MHz	19400.67	-41.74	-13	PASS
Band4	1312	3	0.15~30MHz	0.15	-64.69	-33	PASS
Band4	1312	3	30~1000MHz	871.77	-75.75	-23	PASS
Band4	1312	3	10000~20000MHz	19334.33	-41.8	-13	PASS
Band4	1312	3	0.009~0.15MHz	0.15	-72.2	-43	PASS
Band4	1312	3	3000~10000MHz	3852.37	-50.28	-13	PASS
Band4	1312	3	1000~3000MHz	2508.53	-37.85	-13	PASS
Band4	1312	4	0.15~30MHz	0.15	-67	-33	PASS
Band4	1312	4	30~1000MHz	992.27	-74.15	-23	PASS
Band4	1312	4	1000~3000MHz	2613.73	-37.81	-13	PASS
Band4	1312	4	10000~20000MHz	19395.67	-41.87	-13	PASS
Band4	1312	4	0.009~0.15MHz	0.15	-72.21	-43	PASS
Band4	1312	4	3000~10000MHz	3849.57	-50.09	-13	PASS
Band4	1413	1	10000~20000MHz	19396.33	-41.91	-13	PASS
Band4	1413	1	3000~10000MHz	3798	-50.11	-13	PASS
Band4	1413	1	1000~3000MHz	2640.6	-37.79	-13	PASS
Band4	1413	1	30~1000MHz	921.56	-75.94	-23	PASS
Band4	1413	1	0.009~0.15MHz	0.15	-72.16	-43	PASS
Band4	1413	1	0.15~30MHz	0.15	-66.32	-33	PASS
Band4	1413	2	0.15~30MHz	0.15	-65.51	-33	PASS
Band4	1413	2	30~1000MHz	914.16	-76.23	-23	PASS
Band4	1413	2	1000~3000MHz	2636.4	-37.91	-13	PASS
Band4	1413	2	3000~10000MHz	3847.93	-50.1	-13	PASS
Band4	1413	2	0.009~0.15MHz	0.15	-72.23	-43	PASS
Band4	1413	2	10000~20000MHz	19398.33	-41.84	-13	PASS
Band4	1413	3	1000~3000MHz	2630.8	-37.96	-13	PASS
Band4	1413	3	30~1000MHz	737.39	-74.66	-23	PASS
Band4	1413	3	0.15~30MHz	0.15	-66.24	-33	PASS
Band4	1413	3	3000~10000MHz	3847	-50.17	-13	PASS
Band4	1413	3	0.009~0.15MHz	0.15	-72.29	-43	PASS
Band4	1413	3	10000~20000MHz	19940.67	-41.87	-13	PASS
Band4	1413	4	0.009~0.15MHz	0.15	-72.24	-43	PASS
Band4	1413	4	0.15~30MHz	0.15	-65.07	-33	PASS
Band4	1413	4	30~1000MHz	900.93	-75.48	-23	PASS
Band4	1413	4	1000~3000MHz	2677	-37.98	-13	PASS
Band4	1413	4	3000~10000MHz	3847	-50.25	-13	PASS
Band4	1413	4	10000~20000MHz	19418.33	-42.03	-13	PASS

Band4	1513	1	10000~20000MHz	19979.33	-42	-13	PASS
Band4	1513	1	0.009~0.15MHz	0.15	-72.19	-43	PASS
Band4	1513	1	3000~10000MHz	3792.17	-50.27	-13	PASS
Band4	1513	1	0.15~30MHz	0.16	-66.35	-33	PASS
Band4	1513	1	1000~3000MHz	2609.4	-37.97	-13	PASS
Band4	1513	1	30~1000MHz	924.11	-75.59	-23	PASS
Band4	1513	2	0.15~30MHz	0.15	-66.25	-33	PASS
Band4	1513	2	30~1000MHz	787.51	-75.57	-23	PASS
Band4	1513	2	1000~3000MHz	2649.8	-37.72	-13	PASS
Band4	1513	2	10000~20000MHz	19924.33	-41.94	-13	PASS
Band4	1513	2	3000~10000MHz	3786.8	-50.12	-13	PASS
Band4	1513	2	0.009~0.15MHz	0.15	-72.24	-43	PASS
Band4	1513	3	30~1000MHz	993.73	-75.78	-23	PASS
Band4	1513	3	10000~20000MHz	19345	-41.85	-13	PASS
Band4	1513	3	1000~3000MHz	2603.53	-37.86	-13	PASS
Band4	1513	3	0.15~30MHz	0.15	-65.44	-33	PASS
Band4	1513	3	0.009~0.15MHz	0.15	-72.22	-43	PASS
Band4	1513	3	3000~10000MHz	3847	-50.06	-13	PASS
Band4	1513	4	10000~20000MHz	19460.67	-41.8	-13	PASS
Band4	1513	4	0.009~0.15MHz	0.15	-72.2	-43	PASS
Band4	1513	4	0.15~30MHz	0.15	-66.36	-33	PASS
Band4	1513	4	30~1000MHz	883.6	-74.41	-23	PASS
Band4	1513	4	1000~3000MHz	2771.4	-37.84	-13	PASS
Band4	1513	4	3000~10000MHz	3795.43	-50.24	-13	PASS

Band	Channel	SubTest	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band4	1312	1	0.15~30MHz	0.15	-66.04	-33	PASS
Band4	1312	1	30~1000MHz	840.69	-75.9	-23	PASS
Band4	1312	1	1000~3000MHz	2642.47	-37.73	-13	PASS
Band4	1312	1	3000~10000MHz	3794.5	-50.32	-13	PASS
Band4	1312	1	10000~20000MHz	19430.33	-42.09	-13	PASS
Band4	1312	1	0.009~0.15MHz	0.15	-72.29	-43	PASS
Band4	1312	2	30~1000MHz	951.79	-76.49	-23	PASS
Band4	1312	2	10000~20000MHz	19917.67	-42.12	-13	PASS
Band4	1312	2	1000~3000MHz	2634.07	-37.98	-13	PASS

Band4	1312	2	0.15~30MHz	0.15	-65.55	-33	PASS
Band4	1312	2	0.009~0.15MHz	0.15	-72.26	-43	PASS
Band4	1312	2	3000~10000MHz	3786.8	-50.35	-13	PASS
Band4	1312	3	10000~20000MHz	19986.33	-42.08	-13	PASS
Band4	1312	3	3000~10000MHz	3835.8	-50.39	-13	PASS
Band4	1312	3	0.009~0.15MHz	0.15	-72.35	-43	PASS
Band4	1312	3	0.15~30MHz	0.15	-66.25	-33	PASS
Band4	1312	3	30~1000MHz	912.34	-64.48	-23	PASS
Band4	1312	3	1000~3000MHz	2632.4	-37.93	-13	PASS
Band4	1312	4	3000~10000MHz	3757.63	-50.37	-13	PASS
Band4	1312	4	1000~3000MHz	2633.47	-38.07	-13	PASS
Band4	1312	4	30~1000MHz	912.76	-67	-23	PASS
Band4	1312	4	0.15~30MHz	0.15	-67.09	-33	PASS
Band4	1312	4	0.009~0.15MHz	0.15	-72.33	-43	PASS
Band4	1312	4	10000~20000MHz	19393	-42.13	-13	PASS
Band4	1312	5	0.009~0.15MHz	0.15	-72.31	-43	PASS
Band4	1312	5	0.15~30MHz	0.15	-64.89	-33	PASS
Band4	1312	5	30~1000MHz	894.43	-74.86	-23	PASS
Band4	1312	5	1000~3000MHz	2623.27	-38.09	-13	PASS
Band4	1312	5	3000~10000MHz	3795.2	-50.34	-13	PASS
Band4	1312	5	10000~20000MHz	19419.67	-42.12	-13	PASS
Band4	1513	1	1000~3000MHz	2606.87	-37.99	-13	PASS
Band4	1513	1	3000~10000MHz	3840.23	-50.2	-13	PASS
Band4	1513	1	30~1000MHz	831.03	-75.64	-23	PASS
Band4	1513	1	0.15~30MHz	0.15	-64.7	-33	PASS
Band4	1513	1	0.009~0.15MHz	0.15	-72.29	-43	PASS
Band4	1513	1	10000~20000MHz	19446	-42.08	-13	PASS
Band4	1513	2	1000~3000MHz	2652.4	-38.09	-13	PASS
Band4	1513	2	0.009~0.15MHz	0.15	-72.38	-43	PASS
Band4	1513	2	30~1000MHz	782.88	-76.04	-23	PASS
Band4	1513	2	10000~20000MHz	19427.33	-42.2	-13	PASS
Band4	1513	2	0.15~30MHz	0.15	-66.19	-33	PASS
Band4	1513	2	3000~10000MHz	3809.9	-50.37	-13	PASS
Band4	1513	3	0.15~30MHz	0.15	-66.47	-33	PASS
Band4	1513	3	10000~20000MHz	19334	-42.15	-13	PASS
Band4	1513	3	3000~10000MHz	3842.8	-50.32	-13	PASS
Band4	1513	3	1000~3000MHz	2650.67	-38.07	-13	PASS

Band4	1513	3	30~1000MHz	911.37	-64.66	-23	PASS
Band4	1513	3	0.009~0.15MHz	0.15	-72.31	-43	PASS
Band4	1513	4	0.009~0.15MHz	0.15	-72.27	-43	PASS
Band4	1513	4	0.15~30MHz	0.15	-67.57	-33	PASS
Band4	1513	4	30~1000MHz	910.86	-69.57	-23	PASS
Band4	1513	4	1000~3000MHz	2619.87	-37.85	-13	PASS
Band4	1513	4	3000~10000MHz	3843.5	-50.28	-13	PASS
Band4	1513	4	10000~20000MHz	19382.33	-42.01	-13	PASS
Band4	1513	5	0.009~0.15MHz	0.15	-72.24	-43	PASS
Band4	1513	5	0.15~30MHz	0.15	-67.06	-33	PASS
Band4	1513	5	30~1000MHz	898.44	-75.6	-23	PASS
Band4	1513	5	1000~3000MHz	2652.8	-37.96	-13	PASS
Band4	1513	5	3000~10000MHz	3844.9	-50.01	-13	PASS
Band4	1513	5	10000~20000MHz	19437	-42.12	-13	PASS

Test Graphs

Band4-1312-0.009~0.15MHz



Band4-1312-0.15~30MHz



Band4-1312-30~1000MHz



Band4-1312-1000~3000MHz



Band4-1312-3000~10000MHz



Band4-1312-10000~20000MHz



Band4-1413-0.009~0.15MHz



Band4-1413-0.15~30MHz



Band4-1413-30~1000MHz



Band4-1413-1000~3000MHz



Band4-1413-3000~10000MHz



Band4-1413-10000~20000MHz



Band4-1513-0.009~0.15MHz



Band4-1513-0.15~30MHz



Band4-1513-30~1000MHz



Band4-1513-1000~3000MHz



Band4-1513-3000~10000MHz



Band4-1513-10000~20000MHz



Band4-1312-1-0.15~30MHz



Band4-1312-1-30~1000MHz



Band4-1312-1-1000~3000MHz



Band4-1312-1-3000~10000MHz



Band4-1312-1-10000~20000MHz



Band4-1312-1-0.009~0.15MHz



Band4-1312-2-1000~3000MHz



Band4-1312-2-0.009~0.15MHz



Band4-1312-2-3000~10000MHz



Band4-1312-2-30~1000MHz



Band4-1312-2-0.15~30MHz



Band4-1312-2-10000~20000MHz



Band4-1312-3-0.15~30MHz



Band4-1312-3-30~1000MHz



Band4-1312-3-10000~20000MHz



Band4-1312-3-0.009~0.15MHz



Band4-1312-3-3000~10000MHz



Band4-1312-3-1000~3000MHz



Band4-1312-4-0.15~30MHz



Band4-1312-4-30~1000MHz



Band4-1312-4-1000~3000MHz



Band4-1312-4-10000~20000MHz



Band4-1312-4-0.009~0.15MHz



Band4-1312-4-3000~10000MHz



Band4-1413-1-10000~20000MHz



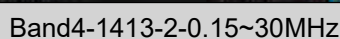
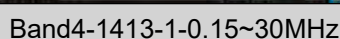
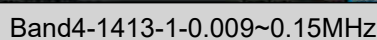
Band4-1413-1-3000~10000MHz



Band4-1413-1-1000~3000MHz



Band4-1413-1-30~1000MHz





Band4-1413-2-30~1000MHz



Band4-1413-2-1000~3000MHz



Band4-1413-2-3000~10000MHz



Band4-1413-2-0.009~0.15MHz



Band4-1413-2-10000~20000MHz



Band4-1413-3-1000~3000MHz



Band4-1413-3-30~1000MHz



Band4-1413-3-0.15~30MHz



Band4-1413-3-3000~10000MHz



Band4-1413-3-0.009~0.15MHz



Band4-1413-3-10000~20000MHz



Band4-1413-4-0.009~0.15MHz



Band4-1413-4-0.15~30MHz



Band4-1413-4-30~1000MHz



Band4-1413-4-1000~3000MHz



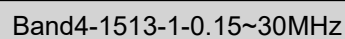
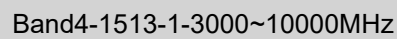
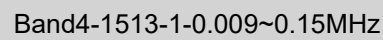
Band4-1413-4-3000~10000MHz



Band4-1413-4-10000~20000MHz



Band4-1513-1-10000~20000MHz





Band4-1513-1-1000~3000MHz



Band4-1513-1-30~1000MHz



Band4-1513-2-0.15~30MHz



Band4-1513-2-30~1000MHz



Band4-1513-2-1000~3000MHz



Band4-1513-2-10000~20000MHz



Band4-1513-2-3000~10000MHz



Band4-1513-2-0.009~0.15MHz



Band4-1513-3-30~1000MHz



Band4-1513-3-10000~20000MHz



Band4-1513-3-1000~3000MHz



Band4-1513-3-0.15~30MHz



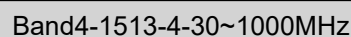
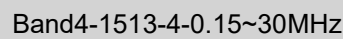
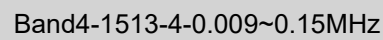
Band4-1513-3-0.009~0.15MHz



Band4-1513-3-3000~10000MHz



Band4-1513-4-10000~20000MHz





Band4-1513-4-1000~3000MHz



Band4-1513-4-3000~10000MHz



Band4-1312-1-0.15~30MHz



Band4-1312-1-30~1000MHz



Band4-1312-1-1000~3000MHz



Band4-1312-1-3000~10000MHz



Band4-1312-1-10000~20000MHz



Band4-1312-1-0.009~0.15MHz



Band4-1312-2-30~1000MHz



Band4-1312-2-10000~20000MHz



Band4-1312-2-1000~3000MHz



Band4-1312-2-0.15~30MHz



Band4-1312-2-0.009~0.15MHz



Band4-1312-2-3000~10000MHz



Band4-1312-3-10000~20000MHz



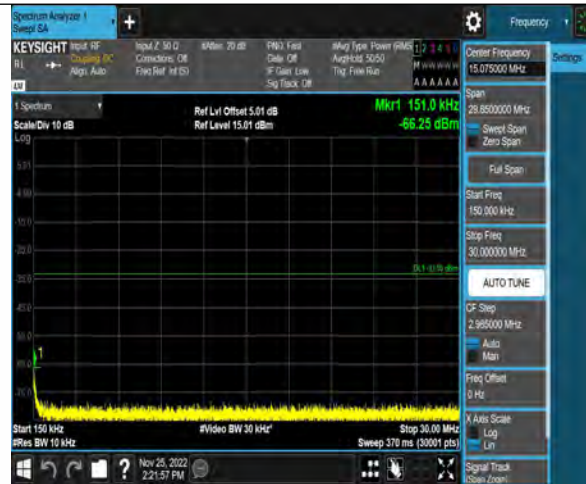
Band4-1312-3-3000~10000MHz



Band4-1312-3-0.009~0.15MHz



Band4-1312-3-0.15~30MHz



Band4-1312-3-30~1000MHz



Band4-1312-3-1000~3000MHz



Band4-1312-4-3000~10000MHz



Band4-1312-4-1000~3000MHz



Band4-1312-4-30~1000MHz



Band4-1312-4-0.15~30MHz



Band4-1312-4-0.009~0.15MHz



Band4-1312-4-10000~20000MHz



Band4-1312-5-0.009~0.15MHz



Band4-1312-5-0.15~30MHz



Band4-1312-5-30~1000MHz



Band4-1312-5-1000~3000MHz



Band4-1312-5-3000~10000MHz



Band4-1312-5-10000~20000MHz



Band4-1513-1-1000~3000MHz



Band4-1513-1-3000~10000MHz



Band4-1513-1-30~1000MHz



Band4-1513-1-0.15~30MHz



Band4-1513-1-0.009~0.15MHz



Band4-1513-1-10000~20000MHz



Band4-1513-2-1000~3000MHz



Band4-1513-2-0.009~0.15MHz



Band4-1513-2-30~1000MHz



Band4-1513-2-10000~20000MHz



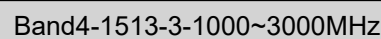
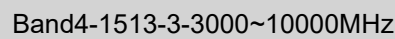
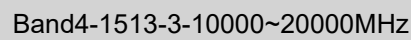
Band4-1513-2-0.15~30MHz



Band4-1513-2-3000~10000MHz



Band4-1513-3-0.15~30MHz





Band4-1513-3-30~1000MHz



Band4-1513-3-0.009~0.15MHz



Band4-1513-4-0.009~0.15MHz



Band4-1513-4-0.15~30MHz



Band4-1513-4-30~1000MHz



Band4-1513-4-1000~3000MHz



Band4-1513-4-3000~10000MHz



Band4-1513-4-10000~20000MHz



Band4-1513-5-0.009~0.15MHz



Band4-1513-5-0.15~30MHz



Band4-1513-5-30~1000MHz



Band4-1513-5-1000~3000MHz



Band4-1513-5-3000~10000MHz



Band4-1513-5-10000~20000MHz



Appendix F: Frequency Stability

Test Result

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	1312	VL	NT	-0.57	-0.000333	±2.5	PASS
Band4	1312	VN	NT	-0.04	-0.000023	±2.5	PASS
Band4	1312	VH	NT	-0.21	-0.000123	±2.5	PASS
Band4	1413	VL	NT	-0.67	-0.000387	±2.5	PASS
Band4	1413	VN	NT	0.28	0.000162	±2.5	PASS
Band4	1413	VH	NT	-0.06	-0.000035	±2.5	PASS
Band4	1513	VL	NT	1.60	0.000913	±2.5	PASS
Band4	1513	VN	NT	1.59	0.000907	±2.5	PASS
Band4	1513	VH	NT	2.07	0.001181	±2.5	PASS

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	1312	NV	-30	-1.42	-0.000829	±2.5	PASS
Band4	1312	NV	-20	-0.77	-0.000450	±2.5	PASS
Band4	1312	NV	-10	-1.33	-0.000777	±2.5	PASS
Band4	1312	NV	0	-0.78	-0.000456	±2.5	PASS
Band4	1312	NV	10	-0.92	-0.000537	±2.5	PASS
Band4	1312	NV	20	-0.40	-0.000234	±2.5	PASS
Band4	1312	NV	30	-0.92	-0.000537	±2.5	PASS
Band4	1312	NV	40	-0.69	-0.000403	±2.5	PASS
Band4	1312	NV	50	-0.31	-0.000181	±2.5	PASS
Band4	1413	NV	-30	0.14	0.000081	±2.5	PASS
Band4	1413	NV	-20	0.29	0.000167	±2.5	PASS
Band4	1413	NV	-10	-0.21	-0.000121	±2.5	PASS
Band4	1413	NV	0	0.02	0.000012	±2.5	PASS
Band4	1413	NV	10	-0.67	-0.000387	±2.5	PASS
Band4	1413	NV	20	0.46	0.000265	±2.5	PASS
Band4	1413	NV	30	1.30	0.000750	±2.5	PASS
Band4	1413	NV	40	-0.08	-0.000046	±2.5	PASS
Band4	1413	NV	50	0.80	0.000462	±2.5	PASS

Band4	1513	NV	-30	1.77	0.001010	±2.5	PASS
Band4	1513	NV	-20	1.90	0.001084	±2.5	PASS
Band4	1513	NV	-10	2.17	0.001238	±2.5	PASS
Band4	1513	NV	0	1.79	0.001021	±2.5	PASS
Band4	1513	NV	10	2.01	0.001147	±2.5	PASS
Band4	1513	NV	20	1.49	0.000850	±2.5	PASS
Band4	1513	NV	30	2.17	0.001238	±2.5	PASS
Band4	1513	NV	40	1.98	0.001130	±2.5	PASS
Band4	1513	NV	50	1.57	0.000896	±2.5	PASS



Voltage								
Band	Channel	Sub Test	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	1312	1	VL	NT	3.45	0.002015	±2.5	PASS
Band4	1312	1	VN	NT	3.74	0.002184	±2.5	PASS
Band4	1312	1	VH	NT	2.94	0.001717	±2.5	PASS
Band4	1312	2	VL	NT	1.35	0.000788	±2.5	PASS
Band4	1312	2	VN	NT	1.53	0.000893	±2.5	PASS
Band4	1312	2	VH	NT	2.90	0.001694	±2.5	PASS
Band4	1312	3	VL	NT	2.15	0.001256	±2.5	PASS
Band4	1312	3	VN	NT	1.64	0.000958	±2.5	PASS
Band4	1312	3	VH	NT	2.25	0.001314	±2.5	PASS
Band4	1312	4	VL	NT	2.50	0.001460	±2.5	PASS
Band4	1312	4	VN	NT	2.09	0.001221	±2.5	PASS
Band4	1312	4	VH	NT	1.85	0.001080	±2.5	PASS
Band4	1413	1	VL	NT	2.18	0.001258	±2.5	PASS
Band4	1413	1	VN	NT	1.87	0.001079	±2.5	PASS
Band4	1413	1	VH	NT	2.30	0.001327	±2.5	PASS
Band4	1413	2	VL	NT	2.17	0.001252	±2.5	PASS
Band4	1413	2	VN	NT	2.12	0.001224	±2.5	PASS
Band4	1413	2	VH	NT	1.70	0.000981	±2.5	PASS
Band4	1413	3	VL	NT	2.13	0.001229	±2.5	PASS
Band4	1413	3	VN	NT	3.13	0.001807	±2.5	PASS
Band4	1413	3	VH	NT	1.90	0.001097	±2.5	PASS
Band4	1413	4	VL	NT	3.95	0.002280	±2.5	PASS
Band4	1413	4	VN	NT	1.80	0.001039	±2.5	PASS
Band4	1413	4	VH	NT	4.33	0.002499	±2.5	PASS
Band4	1513	1	VL	NT	3.36	0.001917	±2.5	PASS
Band4	1513	1	VN	NT	2.38	0.001358	±2.5	PASS
Band4	1513	1	VH	NT	2.12	0.001210	±2.5	PASS
Band4	1513	2	VL	NT	2.30	0.001312	±2.5	PASS
Band4	1513	2	VN	NT	2.90	0.001655	±2.5	PASS
Band4	1513	2	VH	NT	2.34	0.001335	±2.5	PASS
Band4	1513	3	VL	NT	2.79	0.001592	±2.5	PASS
Band4	1513	3	VN	NT	3.81	0.002174	±2.5	PASS
Band4	1513	3	VH	NT	2.72	0.001552	±2.5	PASS

Band4	1513	4	VL	NT	2.94	0.001678	±2.5	PASS
Band4	1513	4	VN	NT	3.31	0.001889	±2.5	PASS
Band4	1513	4	VH	NT	2.79	0.001592	±2.5	PASS

Temperature								
Band	Channel	Sub Test	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	1312	1	NV	-30	2.37	0.001384	±2.5	PASS
Band4	1312	1	NV	-20	2.68	0.001565	±2.5	PASS
Band4	1312	1	NV	-10	2.73	0.001594	±2.5	PASS
Band4	1312	1	NV	0	2.55	0.001489	±2.5	PASS
Band4	1312	1	NV	10	2.40	0.001402	±2.5	PASS
Band4	1312	1	NV	20	2.66	0.001553	±2.5	PASS
Band4	1312	1	NV	30	1.66	0.000969	±2.5	PASS
Band4	1312	1	NV	40	2.23	0.001302	±2.5	PASS
Band4	1312	1	NV	50	2.14	0.001250	±2.5	PASS
Band4	1312	2	NV	-30	2.05	0.001197	±2.5	PASS
Band4	1312	2	NV	-20	1.87	0.001092	±2.5	PASS
Band4	1312	2	NV	-10	2.49	0.001454	±2.5	PASS
Band4	1312	2	NV	0	1.77	0.001034	±2.5	PASS
Band4	1312	2	NV	10	1.86	0.001086	±2.5	PASS
Band4	1312	2	NV	20	2.68	0.001565	±2.5	PASS
Band4	1312	2	NV	30	2.47	0.001442	±2.5	PASS
Band4	1312	2	NV	40	2.01	0.001174	±2.5	PASS
Band4	1312	2	NV	50	2.37	0.001384	±2.5	PASS
Band4	1312	3	NV	-30	2.41	0.001407	±2.5	PASS
Band4	1312	3	NV	-20	2.35	0.001372	±2.5	PASS
Band4	1312	3	NV	-10	2.53	0.001477	±2.5	PASS
Band4	1312	3	NV	0	2.33	0.001361	±2.5	PASS
Band4	1312	3	NV	10	1.49	0.000870	±2.5	PASS
Band4	1312	3	NV	20	2.18	0.001273	±2.5	PASS
Band4	1312	3	NV	30	2.07	0.001209	±2.5	PASS
Band4	1312	3	NV	40	2.11	0.001232	±2.5	PASS
Band4	1312	3	NV	50	1.85	0.001080	±2.5	PASS
Band4	1312	4	NV	-30	2.24	0.001308	±2.5	PASS
Band4	1312	4	NV	-20	2.30	0.001343	±2.5	PASS

Band4	1312	4	NV	-10	1.80	0.001051	±2.5	PASS
Band4	1312	4	NV	0	1.96	0.001145	±2.5	PASS
Band4	1312	4	NV	10	1.78	0.001039	±2.5	PASS
Band4	1312	4	NV	20	2.39	0.001396	±2.5	PASS
Band4	1312	4	NV	30	1.91	0.001115	±2.5	PASS
Band4	1312	4	NV	40	2.00	0.001168	±2.5	PASS
Band4	1312	4	NV	50	2.25	0.001314	±2.5	PASS
Band4	1413	1	NV	-30	1.39	0.000802	±2.5	PASS
Band4	1413	1	NV	-20	2.48	0.001431	±2.5	PASS
Band4	1413	1	NV	-10	1.49	0.000860	±2.5	PASS
Band4	1413	1	NV	0	1.41	0.000814	±2.5	PASS
Band4	1413	1	NV	10	2.76	0.001593	±2.5	PASS
Band4	1413	1	NV	20	2.26	0.001304	±2.5	PASS
Band4	1413	1	NV	30	2.65	0.001529	±2.5	PASS
Band4	1413	1	NV	40	1.60	0.000923	±2.5	PASS
Band4	1413	1	NV	50	2.64	0.001524	±2.5	PASS
Band4	1413	2	NV	-30	1.52	0.000877	±2.5	PASS
Band4	1413	2	NV	-20	2.17	0.001252	±2.5	PASS
Band4	1413	2	NV	-10	2.03	0.001172	±2.5	PASS
Band4	1413	2	NV	0	3.07	0.001772	±2.5	PASS
Band4	1413	2	NV	10	1.62	0.000935	±2.5	PASS
Band4	1413	2	NV	20	2.30	0.001327	±2.5	PASS
Band4	1413	2	NV	30	1.56	0.000900	±2.5	PASS
Band4	1413	2	NV	40	3.04	0.001755	±2.5	PASS
Band4	1413	2	NV	50	2.17	0.001252	±2.5	PASS
Band4	1413	3	NV	-30	2.70	0.001558	±2.5	PASS
Band4	1413	3	NV	-20	3.02	0.001743	±2.5	PASS
Band4	1413	3	NV	-10	1.66	0.000958	±2.5	PASS
Band4	1413	3	NV	0	1.82	0.001050	±2.5	PASS
Band4	1413	3	NV	10	2.65	0.001529	±2.5	PASS
Band4	1413	3	NV	20	2.15	0.001241	±2.5	PASS
Band4	1413	3	NV	30	2.17	0.001252	±2.5	PASS
Band4	1413	3	NV	40	3.12	0.001801	±2.5	PASS
Band4	1413	3	NV	50	2.49	0.001437	±2.5	PASS
Band4	1413	4	NV	-30	3.77	0.002176	±2.5	PASS
Band4	1413	4	NV	-20	3.63	0.002095	±2.5	PASS

Band4	1413	4	NV	-10	3.71	0.002141	±2.5	PASS
Band4	1413	4	NV	0	3.56	0.002055	±2.5	PASS
Band4	1413	4	NV	10	3.34	0.001928	±2.5	PASS
Band4	1413	4	NV	20	2.69	0.001553	±2.5	PASS
Band4	1413	4	NV	30	2.81	0.001622	±2.5	PASS
Band4	1413	4	NV	40	3.24	0.001870	±2.5	PASS
Band4	1413	4	NV	50	2.47	0.001426	±2.5	PASS
Band4	1513	1	NV	-30	3.46	0.001974	±2.5	PASS
Band4	1513	1	NV	-20	2.90	0.001655	±2.5	PASS
Band4	1513	1	NV	-10	2.60	0.001484	±2.5	PASS
Band4	1513	1	NV	0	2.29	0.001307	±2.5	PASS
Band4	1513	1	NV	10	2.93	0.001672	±2.5	PASS
Band4	1513	1	NV	20	3.41	0.001946	±2.5	PASS
Band4	1513	1	NV	30	2.60	0.001484	±2.5	PASS
Band4	1513	1	NV	40	2.62	0.001495	±2.5	PASS
Band4	1513	1	NV	50	2.88	0.001643	±2.5	PASS
Band4	1513	2	NV	-30	2.78	0.001586	±2.5	PASS
Band4	1513	2	NV	-20	3.00	0.001712	±2.5	PASS
Band4	1513	2	NV	-10	2.31	0.001318	±2.5	PASS
Band4	1513	2	NV	0	2.68	0.001529	±2.5	PASS
Band4	1513	2	NV	10	2.45	0.001398	±2.5	PASS
Band4	1513	2	NV	20	3.48	0.001986	±2.5	PASS
Band4	1513	2	NV	30	2.64	0.001506	±2.5	PASS
Band4	1513	2	NV	40	3.11	0.001775	±2.5	PASS
Band4	1513	2	NV	50	2.79	0.001592	±2.5	PASS
Band4	1513	3	NV	-30	2.80	0.001598	±2.5	PASS
Band4	1513	3	NV	-20	3.15	0.001797	±2.5	PASS
Band4	1513	3	NV	-10	2.78	0.001586	±2.5	PASS
Band4	1513	3	NV	0	3.57	0.002037	±2.5	PASS
Band4	1513	3	NV	10	2.30	0.001312	±2.5	PASS
Band4	1513	3	NV	20	2.08	0.001187	±2.5	PASS
Band4	1513	3	NV	30	2.62	0.001495	±2.5	PASS
Band4	1513	3	NV	40	2.85	0.001626	±2.5	PASS
Band4	1513	3	NV	50	2.93	0.001672	±2.5	PASS
Band4	1513	4	NV	-30	2.26	0.001290	±2.5	PASS
Band4	1513	4	NV	-20	2.45	0.001398	±2.5	PASS

Band4	1513	4	NV	-10	3.61	0.002060	±2.5	PASS
Band4	1513	4	NV	0	2.72	0.001552	±2.5	PASS
Band4	1513	4	NV	10	3.73	0.002128	±2.5	PASS
Band4	1513	4	NV	20	2.99	0.001706	±2.5	PASS
Band4	1513	4	NV	30	2.75	0.001569	±2.5	PASS
Band4	1513	4	NV	40	2.83	0.001615	±2.5	PASS
Band4	1513	4	NV	50	2.98	0.001700	±2.5	PASS



Voltage								
Band	Channel	Sub Test	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	1312	1	VL	NT	8.47	0.004946	±2.5	PASS
Band4	1312	1	VN	NT	8.66	0.005057	±2.5	PASS
Band4	1312	1	VH	NT	8.25	0.004818	±2.5	PASS
Band4	1312	2	VL	NT	7.79	0.004549	±2.5	PASS
Band4	1312	2	VN	NT	7.54	0.004403	±2.5	PASS
Band4	1312	2	VH	NT	7.77	0.004537	±2.5	PASS
Band4	1312	3	VL	NT	8.33	0.004865	±2.5	PASS
Band4	1312	3	VN	NT	7.75	0.004526	±2.5	PASS
Band4	1312	3	VH	NT	7.89	0.004608	±2.5	PASS
Band4	1312	4	VL	NT	7.85	0.004584	±2.5	PASS
Band4	1312	4	VN	NT	7.67	0.004479	±2.5	PASS
Band4	1312	4	VH	NT	7.78	0.004543	±2.5	PASS
Band4	1312	5	VL	NT	7.72	0.004508	±2.5	PASS
Band4	1312	5	VN	NT	8.04	0.004695	±2.5	PASS
Band4	1312	5	VH	NT	7.97	0.004654	±2.5	PASS
Band4	1413	1	VL	NT	7.68	0.004433	±2.5	PASS
Band4	1413	1	VN	NT	8.09	0.004669	±2.5	PASS
Band4	1413	1	VH	NT	7.97	0.004600	±2.5	PASS
Band4	1413	2	VL	NT	7.99	0.004612	±2.5	PASS
Band4	1413	2	VN	NT	8.15	0.004704	±2.5	PASS
Band4	1413	2	VH	NT	7.69	0.004438	±2.5	PASS
Band4	1413	3	VL	NT	7.82	0.004513	±2.5	PASS
Band4	1413	3	VN	NT	7.55	0.004358	±2.5	PASS
Band4	1413	3	VH	NT	7.72	0.004456	±2.5	PASS
Band4	1413	4	VL	NT	7.51	0.004335	±2.5	PASS
Band4	1413	4	VN	NT	7.83	0.004519	±2.5	PASS
Band4	1413	4	VH	NT	7.80	0.004502	±2.5	PASS
Band4	1413	5	VL	NT	7.57	0.004369	±2.5	PASS
Band4	1413	5	VN	NT	7.69	0.004438	±2.5	PASS
Band4	1413	5	VH	NT	7.93	0.004577	±2.5	PASS
Band4	1513	1	VL	NT	8.16	0.004656	±2.5	PASS
Band4	1513	1	VN	NT	7.85	0.004479	±2.5	PASS
Band4	1513	1	VH	NT	7.87	0.004490	±2.5	PASS

Band4	1513	2	VL	NT	8.37	0.004776	±2.5	PASS
Band4	1513	2	VN	NT	8.18	0.004667	±2.5	PASS
Band4	1513	2	VH	NT	8.24	0.004702	±2.5	PASS
Band4	1513	3	VL	NT	7.69	0.004388	±2.5	PASS
Band4	1513	3	VN	NT	7.60	0.004336	±2.5	PASS
Band4	1513	3	VH	NT	7.89	0.004502	±2.5	PASS
Band4	1513	4	VL	NT	7.62	0.004348	±2.5	PASS
Band4	1513	4	VN	NT	7.72	0.004405	±2.5	PASS
Band4	1513	4	VH	NT	8.07	0.004605	±2.5	PASS
Band4	1513	5	VL	NT	7.55	0.004308	±2.5	PASS
Band4	1513	5	VN	NT	7.52	0.004291	±2.5	PASS
Band4	1513	5	VH	NT	7.92	0.004519	±2.5	PASS

Temperature								
Band	Channel	Sub Test	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	1312	1	NV	-30	7.90	0.004613	±2.5	PASS
Band4	1312	1	NV	-20	7.86	0.004590	±2.5	PASS
Band4	1312	1	NV	-10	7.99	0.004666	±2.5	PASS
Band4	1312	1	NV	0	7.83	0.004573	±2.5	PASS
Band4	1312	1	NV	10	7.80	0.004555	±2.5	PASS
Band4	1312	1	NV	20	7.55	0.004409	±2.5	PASS
Band4	1312	1	NV	30	7.98	0.004660	±2.5	PASS
Band4	1312	1	NV	40	7.61	0.004444	±2.5	PASS
Band4	1312	1	NV	50	7.47	0.004362	±2.5	PASS
Band4	1312	2	NV	-30	8.10	0.004730	±2.5	PASS
Band4	1312	2	NV	-20	7.65	0.004467	±2.5	PASS
Band4	1312	2	NV	-10	7.89	0.004608	±2.5	PASS
Band4	1312	2	NV	0	7.52	0.004391	±2.5	PASS
Band4	1312	2	NV	10	7.85	0.004584	±2.5	PASS
Band4	1312	2	NV	20	7.86	0.004590	±2.5	PASS
Band4	1312	2	NV	30	8.01	0.004678	±2.5	PASS
Band4	1312	2	NV	40	7.82	0.004567	±2.5	PASS
Band4	1312	2	NV	50	7.85	0.004584	±2.5	PASS
Band4	1312	3	NV	-30	7.99	0.004666	±2.5	PASS
Band4	1312	3	NV	-20	7.78	0.004543	±2.5	PASS

Band4	1312	3	NV	-10	7.83	0.004573	±2.5	PASS
Band4	1312	3	NV	0	7.83	0.004573	±2.5	PASS
Band4	1312	3	NV	10	7.92	0.004625	±2.5	PASS
Band4	1312	3	NV	20	7.91	0.004619	±2.5	PASS
Band4	1312	3	NV	30	8.55	0.004993	±2.5	PASS
Band4	1312	3	NV	40	7.37	0.004304	±2.5	PASS
Band4	1312	3	NV	50	8.03	0.004689	±2.5	PASS
Band4	1312	4	NV	-30	7.85	0.004584	±2.5	PASS
Band4	1312	4	NV	-20	7.95	0.004643	±2.5	PASS
Band4	1312	4	NV	-10	7.59	0.004432	±2.5	PASS
Band4	1312	4	NV	0	7.90	0.004613	±2.5	PASS
Band4	1312	4	NV	10	8.47	0.004946	±2.5	PASS
Band4	1312	4	NV	20	8.18	0.004777	±2.5	PASS
Band4	1312	4	NV	30	8.10	0.004730	±2.5	PASS
Band4	1312	4	NV	40	7.80	0.004555	±2.5	PASS
Band4	1312	4	NV	50	8.38	0.004894	±2.5	PASS
Band4	1312	5	NV	-30	8.17	0.004771	±2.5	PASS
Band4	1312	5	NV	-20	7.87	0.004596	±2.5	PASS
Band4	1312	5	NV	-10	7.69	0.004491	±2.5	PASS
Band4	1312	5	NV	0	8.01	0.004678	±2.5	PASS
Band4	1312	5	NV	10	8.22	0.004800	±2.5	PASS
Band4	1312	5	NV	20	7.90	0.004613	±2.5	PASS
Band4	1312	5	NV	30	7.94	0.004637	±2.5	PASS
Band4	1312	5	NV	40	7.98	0.004660	±2.5	PASS
Band4	1312	5	NV	50	8.12	0.004742	±2.5	PASS
Band4	1413	1	NV	-30	7.92	0.004571	±2.5	PASS
Band4	1413	1	NV	-20	8.07	0.004658	±2.5	PASS
Band4	1413	1	NV	-10	7.57	0.004369	±2.5	PASS
Band4	1413	1	NV	0	7.73	0.004462	±2.5	PASS
Band4	1413	1	NV	10	7.80	0.004502	±2.5	PASS
Band4	1413	1	NV	20	8.00	0.004617	±2.5	PASS
Band4	1413	1	NV	30	7.99	0.004612	±2.5	PASS
Band4	1413	1	NV	40	7.92	0.004571	±2.5	PASS
Band4	1413	1	NV	50	7.91	0.004565	±2.5	PASS
Band4	1413	2	NV	-30	8.20	0.004733	±2.5	PASS
Band4	1413	2	NV	-20	8.13	0.004692	±2.5	PASS

Band4	1413	2	NV	-10	8.02	0.004629	±2.5	PASS
Band4	1413	2	NV	0	7.87	0.004542	±2.5	PASS
Band4	1413	2	NV	10	7.93	0.004577	±2.5	PASS
Band4	1413	2	NV	20	8.05	0.004646	±2.5	PASS
Band4	1413	2	NV	30	7.33	0.004231	±2.5	PASS
Band4	1413	2	NV	40	7.69	0.004438	±2.5	PASS
Band4	1413	2	NV	50	7.85	0.004531	±2.5	PASS
Band4	1413	3	NV	-30	8.72	0.005033	±2.5	PASS
Band4	1413	3	NV	-20	8.25	0.004762	±2.5	PASS
Band4	1413	3	NV	-10	8.30	0.004790	±2.5	PASS
Band4	1413	3	NV	0	7.88	0.004548	±2.5	PASS
Band4	1413	3	NV	10	7.95	0.004588	±2.5	PASS
Band4	1413	3	NV	20	7.49	0.004323	±2.5	PASS
Band4	1413	3	NV	30	7.87	0.004542	±2.5	PASS
Band4	1413	3	NV	40	7.89	0.004554	±2.5	PASS
Band4	1413	3	NV	50	7.75	0.004473	±2.5	PASS
Band4	1413	4	NV	-30	7.61	0.004392	±2.5	PASS
Band4	1413	4	NV	-20	7.77	0.004485	±2.5	PASS
Band4	1413	4	NV	-10	7.80	0.004502	±2.5	PASS
Band4	1413	4	NV	0	7.67	0.004427	±2.5	PASS
Band4	1413	4	NV	10	8.23	0.004750	±2.5	PASS
Band4	1413	4	NV	20	7.75	0.004473	±2.5	PASS
Band4	1413	4	NV	30	7.59	0.004381	±2.5	PASS
Band4	1413	4	NV	40	7.90	0.004560	±2.5	PASS
Band4	1413	4	NV	50	8.00	0.004617	±2.5	PASS
Band4	1413	5	NV	-30	7.32	0.004225	±2.5	PASS
Band4	1413	5	NV	-20	8.16	0.004710	±2.5	PASS
Band4	1413	5	NV	-10	7.95	0.004588	±2.5	PASS
Band4	1413	5	NV	0	7.46	0.004306	±2.5	PASS
Band4	1413	5	NV	10	7.80	0.004502	±2.5	PASS
Band4	1413	5	NV	20	8.14	0.004698	±2.5	PASS
Band4	1413	5	NV	30	7.87	0.004542	±2.5	PASS
Band4	1413	5	NV	40	7.77	0.004485	±2.5	PASS
Band4	1413	5	NV	50	8.00	0.004617	±2.5	PASS
Band4	1513	1	NV	-30	7.90	0.004508	±2.5	PASS
Band4	1513	1	NV	-20	7.67	0.004376	±2.5	PASS

Band4	1513	1	NV	-10	7.85	0.004479	±2.5	PASS
Band4	1513	1	NV	0	8.02	0.004576	±2.5	PASS
Band4	1513	1	NV	10	8.18	0.004667	±2.5	PASS
Band4	1513	1	NV	20	7.68	0.004382	±2.5	PASS
Band4	1513	1	NV	30	7.93	0.004525	±2.5	PASS
Band4	1513	1	NV	40	7.87	0.004490	±2.5	PASS
Band4	1513	1	NV	50	8.47	0.004833	±2.5	PASS
Band4	1513	2	NV	-30	7.53	0.004296	±2.5	PASS
Band4	1513	2	NV	-20	7.75	0.004422	±2.5	PASS
Band4	1513	2	NV	-10	8.15	0.004650	±2.5	PASS
Band4	1513	2	NV	0	8.32	0.004747	±2.5	PASS
Band4	1513	2	NV	10	7.95	0.004536	±2.5	PASS
Band4	1513	2	NV	20	7.93	0.004525	±2.5	PASS
Band4	1513	2	NV	30	8.04	0.004587	±2.5	PASS
Band4	1513	2	NV	40	7.65	0.004365	±2.5	PASS
Band4	1513	2	NV	50	7.82	0.004462	±2.5	PASS
Band4	1513	3	NV	-30	7.75	0.004422	±2.5	PASS
Band4	1513	3	NV	-20	7.56	0.004314	±2.5	PASS
Band4	1513	3	NV	-10	7.24	0.004131	±2.5	PASS
Band4	1513	3	NV	0	7.84	0.004473	±2.5	PASS
Band4	1513	3	NV	10	7.78	0.004439	±2.5	PASS
Band4	1513	3	NV	20	7.62	0.004348	±2.5	PASS
Band4	1513	3	NV	30	8.04	0.004587	±2.5	PASS
Band4	1513	3	NV	40	7.87	0.004490	±2.5	PASS
Band4	1513	3	NV	50	7.66	0.004371	±2.5	PASS
Band4	1513	4	NV	-30	7.63	0.004354	±2.5	PASS
Band4	1513	4	NV	-20	7.77	0.004433	±2.5	PASS
Band4	1513	4	NV	-10	7.67	0.004376	±2.5	PASS
Band4	1513	4	NV	0	7.92	0.004519	±2.5	PASS
Band4	1513	4	NV	10	7.78	0.004439	±2.5	PASS
Band4	1513	4	NV	20	7.90	0.004508	±2.5	PASS
Band4	1513	4	NV	30	7.31	0.004171	±2.5	PASS
Band4	1513	4	NV	40	7.77	0.004433	±2.5	PASS
Band4	1513	4	NV	50	7.91	0.004513	±2.5	PASS
Band4	1513	5	NV	-30	8.09	0.004616	±2.5	PASS
Band4	1513	5	NV	-20	7.65	0.004365	±2.5	PASS

Band4	1513	5	NV	-10	7.92	0.004519	±2.5	PASS
Band4	1513	5	NV	0	8.23	0.004696	±2.5	PASS
Band4	1513	5	NV	10	8.41	0.004799	±2.5	PASS
Band4	1513	5	NV	20	8.14	0.004645	±2.5	PASS
Band4	1513	5	NV	30	7.80	0.004451	±2.5	PASS
Band4	1513	5	NV	40	7.82	0.004462	±2.5	PASS
Band4	1513	5	NV	50	7.91	0.004513	±2.5	PASS

