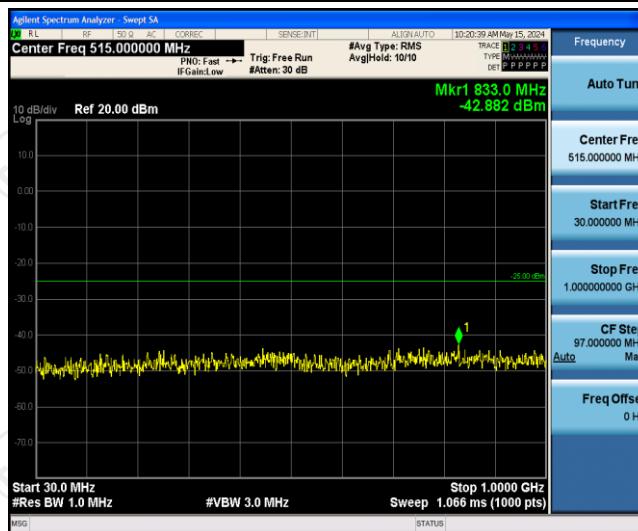
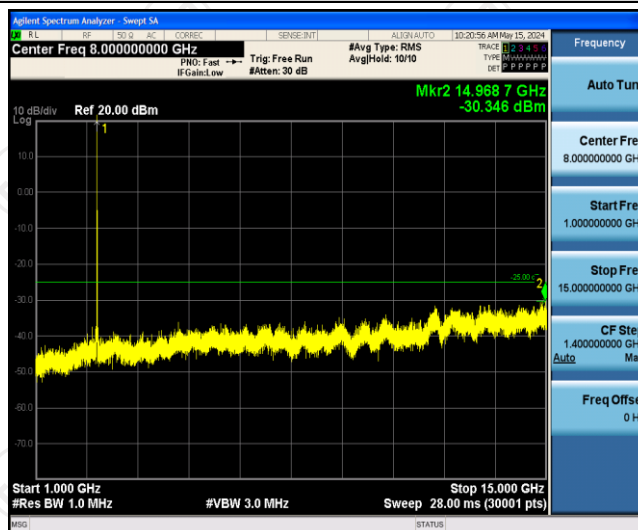
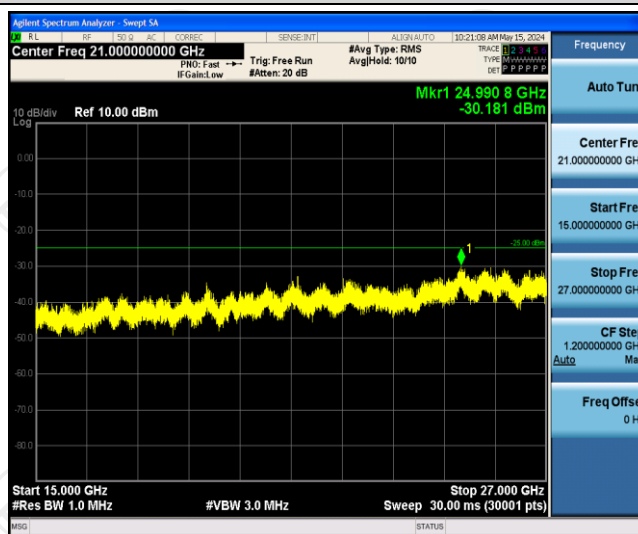




Band41-20MHz-16QAM-41490-1RB#0-Range1:30~1000MHz



Band41-20MHz-16QAM-41490-1RB#0-Range2:1000~15000MHz



Band41-20MHz-16QAM-41490-1RB#0-Range3:15000~27000MHz

Appendix F: Frequency Stability

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band41	5MHz	QPSK	39675	25RB#0	VL	NT	-9.67	-0.003870	±2.5	PASS
Band41	5MHz	QPSK	39675	25RB#0	VN	NT	37.39	0.014965	±2.5	PASS
Band41	5MHz	QPSK	39675	25RB#0	VH	NT	17.61	0.007048	±2.5	PASS
Band41	5MHz	QPSK	40620	25RB#0	VL	NT	22.94	0.008847	±2.5	PASS
Band41	5MHz	QPSK	40620	25RB#0	VN	NT	20.62	0.007952	±2.5	PASS
Band41	5MHz	QPSK	40620	25RB#0	VH	NT	19.82	0.007644	±2.5	PASS
Band41	5MHz	QPSK	41565	25RB#0	VL	NT	15.71	0.005846	±2.5	PASS
Band41	5MHz	QPSK	41565	25RB#0	VN	NT	22.27	0.008287	±2.5	PASS
Band41	5MHz	QPSK	41565	25RB#0	VH	NT	-30.57	-0.011375	±2.5	PASS
Band41	5MHz	16QAM	39675	25RB#0	VL	NT	15.58	0.006236	±2.5	PASS
Band41	5MHz	16QAM	39675	25RB#0	VN	NT	10.39	0.004158	±2.5	PASS
Band41	5MHz	16QAM	39675	25RB#0	VH	NT	22.78	0.009117	±2.5	PASS
Band41	5MHz	16QAM	40620	25RB#0	VL	NT	9.90	0.003818	±2.5	PASS
Band41	5MHz	16QAM	40620	25RB#0	VN	NT	46.62	0.017979	±2.5	PASS
Band41	5MHz	16QAM	40620	25RB#0	VH	NT	33.14	0.012781	±2.5	PASS
Band41	5MHz	16QAM	41565	25RB#0	VL	NT	-42.59	-0.015847	±2.5	PASS
Band41	5MHz	16QAM	41565	25RB#0	VN	NT	-42.51	-0.015818	±2.5	PASS
Band41	5MHz	16QAM	41565	25RB#0	VH	NT	-9.07	-0.003375	±2.5	PASS
Band41	10MHz	QPSK	39700	50RB#0	VL	NT	56.30	0.022511	±2.5	PASS
Band41	10MHz	QPSK	39700	50RB#0	VN	NT	29.90	0.011955	±2.5	PASS
Band41	10MHz	QPSK	39700	50RB#0	VH	NT	11.13	0.004450	±2.5	PASS
Band41	10MHz	QPSK	40620	50RB#0	VL	NT	30.91	0.011921	±2.5	PASS
Band41	10MHz	QPSK	40620	50RB#0	VN	NT	26.73	0.010309	±2.5	PASS
Band41	10MHz	QPSK	40620	50RB#0	VH	NT	10.97	0.004231	±2.5	PASS
Band41	10MHz	QPSK	41540	50RB#0	VL	NT	-12.43	-0.004629	±2.5	PASS
Band41	10MHz	QPSK	41540	50RB#0	VN	NT	12.14	0.004521	±2.5	PASS
Band41	10MHz	QPSK	41540	50RB#0	VH	NT	-50.64	-0.018860	±2.5	PASS
Band41	10MHz	16QAM	39700	50RB#0	VL	NT	18.68	0.007469	±2.5	PASS
Band41	10MHz	16QAM	39700	50RB#0	VN	NT	17.22	0.006885	±2.5	PASS
Band41	10MHz	16QAM	39700	50RB#0	VH	NT	20.62	0.008245	±2.5	PASS
Band41	10MHz	16QAM	40620	50RB#0	VL	NT	-7.31	-0.002819	±2.5	PASS
Band41	10MHz	16QAM	40620	50RB#0	VN	NT	41.36	0.015951	±2.5	PASS
Band41	10MHz	16QAM	40620	50RB#0	VH	NT	23.11	0.008912	±2.5	PASS

Band41	10MHz	16QAM	41540	50RB#0	VL	NT	-28.39	-0.010574	±2.5	PASS
Band41	10MHz	16QAM	41540	50RB#0	VN	NT	-38.49	-0.014335	±2.5	PASS
Band41	10MHz	16QAM	41540	50RB#0	VH	NT	-52.49	-0.019549	±2.5	PASS
Band41	15MHz	QPSK	39725	75RB#0	VL	NT	42.27	0.016884	±2.5	PASS
Band41	15MHz	QPSK	39725	75RB#0	VN	NT	18.83	0.007521	±2.5	PASS
Band41	15MHz	QPSK	39725	75RB#0	VH	NT	49.33	0.019704	±2.5	PASS
Band41	15MHz	QPSK	40620	75RB#0	VL	NT	7.56	0.002916	±2.5	PASS
Band41	15MHz	QPSK	40620	75RB#0	VN	NT	17.08	0.006587	±2.5	PASS
Band41	15MHz	QPSK	40620	75RB#0	VH	NT	51.88	0.020008	±2.5	PASS
Band41	15MHz	QPSK	41515	75RB#0	VL	NT	27.08	0.010095	±2.5	PASS
Band41	15MHz	QPSK	41515	75RB#0	VN	NT	29.20	0.010885	±2.5	PASS
Band41	15MHz	QPSK	41515	75RB#0	VH	NT	-18.32	-0.006829	±2.5	PASS
Band41	15MHz	16QAM	39725	75RB#0	VL	NT	54.75	0.021869	±2.5	PASS
Band41	15MHz	16QAM	39725	75RB#0	VN	NT	49.26	0.019676	±2.5	PASS
Band41	15MHz	16QAM	39725	75RB#0	VH	NT	14.90	0.005952	±2.5	PASS
Band41	15MHz	16QAM	40620	75RB#0	VL	NT	30.62	0.011809	±2.5	PASS
Band41	15MHz	16QAM	40620	75RB#0	VN	NT	45.57	0.017574	±2.5	PASS
Band41	15MHz	16QAM	40620	75RB#0	VH	NT	54.28	0.020933	±2.5	PASS
Band41	15MHz	16QAM	41515	75RB#0	VL	NT	-31.24	-0.011646	±2.5	PASS
Band41	15MHz	16QAM	41515	75RB#0	VN	NT	-57.72	-0.021517	±2.5	PASS
Band41	15MHz	16QAM	41515	75RB#0	VH	NT	-57.45	-0.021417	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	VL	NT	9.24	0.003687	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	VN	NT	32.82	0.013097	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	VH	NT	-5.42	-0.002163	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	VL	NT	11.11	0.004285	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	VN	NT	22.68	0.008747	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	VH	NT	24.70	0.009526	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	VL	NT	18.41	0.006869	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	VN	NT	26.21	0.009780	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	VH	NT	-24.20	-0.009030	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	VL	NT	44.49	0.017753	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	VN	NT	39.83	0.015894	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	VH	NT	10.66	0.004254	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	VL	NT	-15.38	-0.005931	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	VN	NT	35.13	0.013548	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	VH	NT	17.46	0.006734	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	VL	NT	-46.39	-0.017310	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	VN	NT	-52.53	-0.019601	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	VH	NT	3.46	0.001291	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configuration	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4_1	5MHz	QPSK	39675	25RB#0	NV	-30	28.35	0.011347	±2.5	PASS
Band4_1	5MHz	QPSK	39675	25RB#0	NV	-20	47.85	0.019151	±2.5	PASS
Band4_1	5MHz	QPSK	39675	25RB#0	NV	0	48.61	0.019456	±2.5	PASS
Band4_1	5MHz	QPSK	39675	25RB#0	NV	10	53.75	0.021513	±2.5	PASS
Band4_1	5MHz	QPSK	39675	25RB#0	NV	20	5.78	0.002313	±2.5	PASS
Band4_1	5MHz	QPSK	40620	25RB#0	NV	-30	21.43	0.008265	±2.5	PASS
Band4_1	5MHz	QPSK	40620	25RB#0	NV	-20	-7.33	-0.002827	±2.5	PASS
Band4_1	5MHz	QPSK	40620	25RB#0	NV	0	40.58	0.015650	±2.5	PASS
Band4_1	5MHz	QPSK	40620	25RB#0	NV	10	23.75	0.009159	±2.5	PASS
Band4_1	5MHz	QPSK	40620	25RB#0	NV	20	53.84	0.020764	±2.5	PASS
Band4_1	5MHz	QPSK	41565	25RB#0	NV	-30	-18.35	-0.006828	±2.5	PASS
Band4_1	5MHz	QPSK	41565	25RB#0	NV	-20	-31.56	-0.011743	±2.5	PASS
Band4_1	5MHz	QPSK	41565	25RB#0	NV	0	-18.72	-0.006966	±2.5	PASS
Band4_1	5MHz	QPSK	41565	25RB#0	NV	10	-20.90	-0.007777	±2.5	PASS
Band4_1	5MHz	QPSK	41565	25RB#0	NV	20	14.15	0.005265	±2.5	PASS
Band4_1	5MHz	16QAM	39675	25RB#0	NV	-30	17.82	0.007132	±2.5	PASS
Band4_1	5MHz	16QAM	39675	25RB#0	NV	-20	25.74	0.010302	±2.5	PASS
Band4_1	5MHz	16QAM	39675	25RB#0	NV	0	26.46	0.010590	±2.5	PASS
Band4_1	5MHz	16QAM	39675	25RB#0	NV	10	24.81	0.009930	±2.5	PASS
Band4_1	5MHz	16QAM	39675	25RB#0	NV	20	31.70	0.012688	±2.5	PASS

1										
Band4 1	5MHz	16QAM	40620	25RB#0	NV	-30	-12.37	-0.004771	±2.5	PASS
Band4 1	5MHz	16QAM	40620	25RB#0	NV	-20	16.82	0.006487	±2.5	PASS
Band4 1	5MHz	16QAM	40620	25RB#0	NV	0	29.74	0.011469	±2.5	PASS
Band4 1	5MHz	16QAM	40620	25RB#0	NV	10	52.20	0.020131	±2.5	PASS
Band4 1	5MHz	16QAM	40620	25RB#0	NV	20	35.08	0.013529	±2.5	PASS
Band4 1	5MHz	16QAM	41565	25RB#0	NV	-30	-32.36	-0.012041	±2.5	PASS
Band4 1	5MHz	16QAM	41565	25RB#0	NV	-20	-52.27	-0.019449	±2.5	PASS
Band4 1	5MHz	16QAM	41565	25RB#0	NV	0	-58.67	-0.021831	±2.5	PASS
Band4 1	5MHz	16QAM	41565	25RB#0	NV	10	-5.43	-0.002020	±2.5	PASS
Band4 1	5MHz	16QAM	41565	25RB#0	NV	20	-41.20	-0.015330	±2.5	PASS
Band4 1	10MHz	QPSK	39700	50RB#0	NV	-30	12.17	0.004866	±2.5	PASS
Band4 1	10MHz	QPSK	39700	50RB#0	NV	-20	14.79	0.005914	±2.5	PASS
Band4 1	10MHz	QPSK	39700	50RB#0	NV	0	17.67	0.007065	±2.5	PASS
Band4 1	10MHz	QPSK	39700	50RB#0	NV	10	17.36	0.006941	±2.5	PASS
Band4 1	10MHz	QPSK	39700	50RB#0	NV	20	18.25	0.007297	±2.5	PASS
Band4 1	10MHz	QPSK	40620	50RB#0	NV	-30	51.63	0.019911	±2.5	PASS
Band4 1	10MHz	QPSK	40620	50RB#0	NV	-20	36.56	0.014099	±2.5	PASS
Band4 1	10MHz	QPSK	40620	50RB#0	NV	0	18.01	0.006946	±2.5	PASS
Band4 1	10MHz	QPSK	40620	50RB#0	NV	10	43.11	0.016626	±2.5	PASS
Band4 1	10MHz	QPSK	40620	50RB#0	NV	20	17.71	0.006830	±2.5	PASS
Band4	10MHz	QPSK	41540	50RB#0	NV	-30	-33.20	-0.012365	±2.5	PASS

1										
Band4 1	10MHz	QPSK	41540	50RB#0	NV	-20	-42.52	-0.015836	±2.5	PASS
Band4 1	10MHz	QPSK	41540	50RB#0	NV	0	-25.16	-0.009371	±2.5	PASS
Band4 1	10MHz	QPSK	41540	50RB#0	NV	10	-10.38	-0.003866	±2.5	PASS
Band4 1	10MHz	QPSK	41540	50RB#0	NV	20	-43.08	-0.016045	±2.5	PASS
Band4 1	10MHz	16QAM	39700	50RB#0	NV	-30	22.36	0.008940	±2.5	PASS
Band4 1	10MHz	16QAM	39700	50RB#0	NV	-20	13.48	0.005390	±2.5	PASS
Band4 1	10MHz	16QAM	39700	50RB#0	NV	0	13.27	0.005306	±2.5	PASS
Band4 1	10MHz	16QAM	39700	50RB#0	NV	10	18.67	0.007465	±2.5	PASS
Band4 1	10MHz	16QAM	39700	50RB#0	NV	20	13.33	0.005330	±2.5	PASS
Band4 1	10MHz	16QAM	40620	50RB#0	NV	-30	38.90	0.015002	±2.5	PASS
Band4 1	10MHz	16QAM	40620	50RB#0	NV	-20	27.87	0.010748	±2.5	PASS
Band4 1	10MHz	16QAM	40620	50RB#0	NV	0	43.59	0.016811	±2.5	PASS
Band4 1	10MHz	16QAM	40620	50RB#0	NV	10	-10.11	-0.003899	±2.5	PASS
Band4 1	10MHz	16QAM	40620	50RB#0	NV	20	18.87	0.007277	±2.5	PASS
Band4 1	10MHz	16QAM	41540	50RB#0	NV	-30	-8.49	-0.003162	±2.5	PASS
Band4 1	10MHz	16QAM	41540	50RB#0	NV	-20	-28.02	-0.010436	±2.5	PASS
Band4 1	10MHz	16QAM	41540	50RB#0	NV	0	-40.83	-0.015207	±2.5	PASS
Band4 1	10MHz	16QAM	41540	50RB#0	NV	10	10.24	0.003814	±2.5	PASS
Band4 1	10MHz	16QAM	41540	50RB#0	NV	20	-8.75	-0.003259	±2.5	PASS
Band4 1	15MHz	QPSK	39725	75RB#0	NV	-30	46.33	0.018506	±2.5	PASS
Band4	15MHz	QPSK	39725	75RB#0	NV	-20	47.79	0.019089	±2.5	PASS

1										
Band4 1	15MHz	QPSK	39725	75RB#0	NV	0	43.89	0.017531	±2.5	PASS
Band4 1	15MHz	QPSK	39725	75RB#0	NV	10	47.23	0.018866	±2.5	PASS
Band4 1	15MHz	QPSK	39725	75RB#0	NV	20	48.73	0.019465	±2.5	PASS
Band4 1	15MHz	QPSK	40620	75RB#0	NV	-30	23.93	0.009229	±2.5	PASS
Band4 1	15MHz	QPSK	40620	75RB#0	NV	-20	48.95	0.018878	±2.5	PASS
Band4 1	15MHz	QPSK	40620	75RB#0	NV	0	36.58	0.014107	±2.5	PASS
Band4 1	15MHz	QPSK	40620	75RB#0	NV	10	-10.80	-0.004165	±2.5	PASS
Band4 1	15MHz	QPSK	40620	75RB#0	NV	20	22.49	0.008673	±2.5	PASS
Band4 1	15MHz	QPSK	41515	75RB#0	NV	-30	-13.11	-0.004887	±2.5	PASS
Band4 1	15MHz	QPSK	41515	75RB#0	NV	-20	-10.01	-0.003732	±2.5	PASS
Band4 1	15MHz	QPSK	41515	75RB#0	NV	0	-55.43	-0.020664	±2.5	PASS
Band4 1	15MHz	QPSK	41515	75RB#0	NV	10	-46.77	-0.017435	±2.5	PASS
Band4 1	15MHz	QPSK	41515	75RB#0	NV	20	-30.08	-0.011213	±2.5	PASS
Band4 1	15MHz	16QAM	39725	75RB#0	NV	-30	19.88	0.007941	±2.5	PASS
Band4 1	15MHz	16QAM	39725	75RB#0	NV	-20	16.98	0.006783	±2.5	PASS
Band4 1	15MHz	16QAM	39725	75RB#0	NV	0	22.24	0.008884	±2.5	PASS
Band4 1	15MHz	16QAM	39725	75RB#0	NV	10	20.14	0.008045	±2.5	PASS
Band4 1	15MHz	16QAM	39725	75RB#0	NV	20	24.66	0.009850	±2.5	PASS
Band4 1	15MHz	16QAM	40620	75RB#0	NV	-30	33.99	0.013108	±2.5	PASS
Band4 1	15MHz	16QAM	40620	75RB#0	NV	-20	52.12	0.020100	±2.5	PASS
Band4	15MHz	16QAM	40620	75RB#0	NV	0	8.80	0.003394	±2.5	PASS

1										
Band4 1	15MHz	16QAM	40620	75RB#0	NV	10	29.18	0.011253	±2.5	PASS
Band4 1	15MHz	16QAM	40620	75RB#0	NV	20	42.32	0.016321	±2.5	PASS
Band4 1	15MHz	16QAM	41515	75RB#0	NV	-30	-11.79	-0.004395	±2.5	PASS
Band4 1	15MHz	16QAM	41515	75RB#0	NV	-20	-37.17	-0.013856	±2.5	PASS
Band4 1	15MHz	16QAM	41515	75RB#0	NV	0	-50.58	-0.018856	±2.5	PASS
Band4 1	15MHz	16QAM	41515	75RB#0	NV	10	-31.18	-0.011623	±2.5	PASS
Band4 1	15MHz	16QAM	41515	75RB#0	NV	20	-44.94	-0.016753	±2.5	PASS
Band4 1	20MHz	QPSK	39750	100RB#0	NV	-30	-53.28	-0.021261	±2.5	PASS
Band4 1	20MHz	QPSK	39750	100RB#0	NV	-20	-30.29	-0.012087	±2.5	PASS
Band4 1	20MHz	QPSK	39750	100RB#0	NV	0	-18.02	-0.007191	±2.5	PASS
Band4 1	20MHz	QPSK	39750	100RB#0	NV	10	-11.44	-0.004565	±2.5	PASS
Band4 1	20MHz	QPSK	39750	100RB#0	NV	20	17.02	0.006792	±2.5	PASS
Band4 1	20MHz	QPSK	40620	100RB#0	NV	-30	16.03	0.006182	±2.5	PASS
Band4 1	20MHz	QPSK	40620	100RB#0	NV	-20	51.81	0.019981	±2.5	PASS
Band4 1	20MHz	QPSK	40620	100RB#0	NV	0	50.12	0.019329	±2.5	PASS
Band4 1	20MHz	QPSK	40620	100RB#0	NV	10	25.23	0.009730	±2.5	PASS
Band4 1	20MHz	QPSK	40620	100RB#0	NV	20	2.63	0.001014	±2.5	PASS
Band4 1	20MHz	QPSK	41490	100RB#0	NV	-30	4.75	0.001772	±2.5	PASS
Band4 1	20MHz	QPSK	41490	100RB#0	NV	-20	-51.84	-0.019343	±2.5	PASS
Band4 1	20MHz	QPSK	41490	100RB#0	NV	0	-50.20	-0.018731	±2.5	PASS
Band4	20MHz	QPSK	41490	100RB#0	NV	10	-49.84	-0.018597	±2.5	PASS

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Band4 1	20MHz	QPSK	41490	100RB#0	NV	20	-23.29	-0.008690	±2.5	PASS
Band4 1	20MHz	16QAM	39750	100RB#0	NV	-30	16.18	0.006457	±2.5	PASS
Band4 1	20MHz	16QAM	39750	100RB#0	NV	-20	25.53	0.010188	±2.5	PASS
Band4 1	20MHz	16QAM	39750	100RB#0	NV	0	35.63	0.014218	±2.5	PASS
Band4 1	20MHz	16QAM	39750	100RB#0	NV	10	40.96	0.016345	±2.5	PASS
Band4 1	20MHz	16QAM	39750	100RB#0	NV	20	44.38	0.017709	±2.5	PASS
Band4 1	20MHz	16QAM	40620	100RB#0	NV	-30	38.32	0.014778	±2.5	PASS
Band4 1	20MHz	16QAM	40620	100RB#0	NV	-20	24.52	0.009456	±2.5	PASS
Band4 1	20MHz	16QAM	40620	100RB#0	NV	0	43.43	0.016749	±2.5	PASS
Band4 1	20MHz	16QAM	40620	100RB#0	NV	10	-9.86	-0.003803	±2.5	PASS
Band4 1	20MHz	16QAM	40620	100RB#0	NV	20	14.25	0.005496	±2.5	PASS
Band4 1	20MHz	16QAM	41490	100RB#0	NV	-30	-29.36	-0.010955	±2.5	PASS
Band4 1	20MHz	16QAM	41490	100RB#0	NV	-20	-51.38	-0.019172	±2.5	PASS
Band4 1	20MHz	16QAM	41490	100RB#0	NV	0	-34.24	-0.012776	±2.5	PASS
Band4 1	20MHz	16QAM	41490	100RB#0	NV	10	-50.27	-0.018757	±2.5	PASS
Band4 1	20MHz	16QAM	41490	100RB#0	NV	20	10.13	0.003780	±2.5	PASS