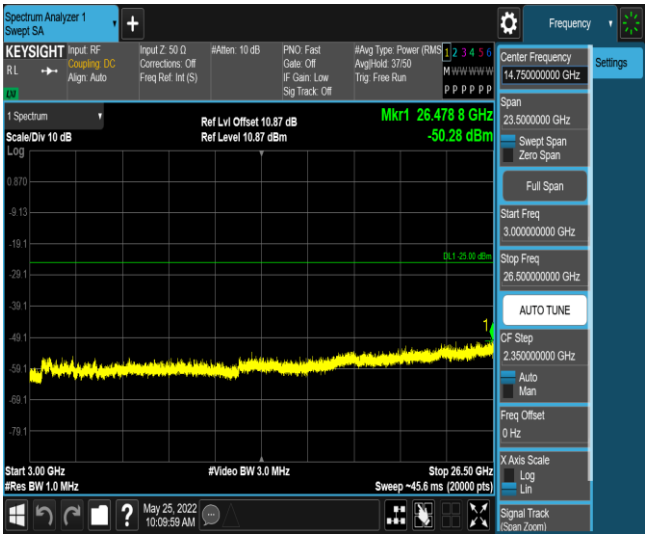
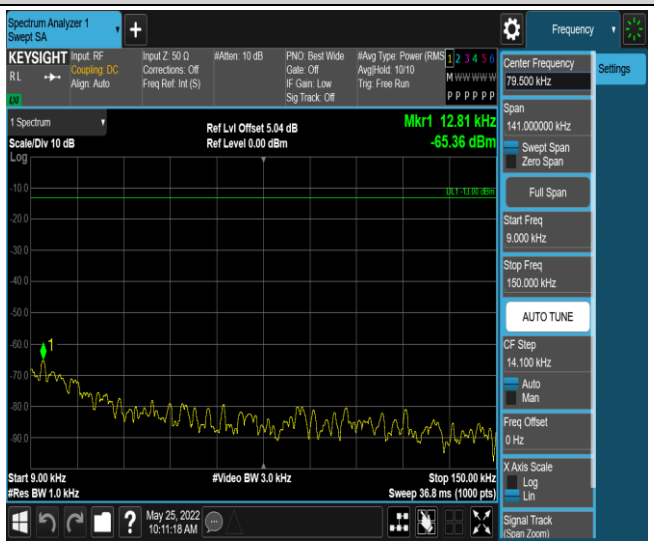
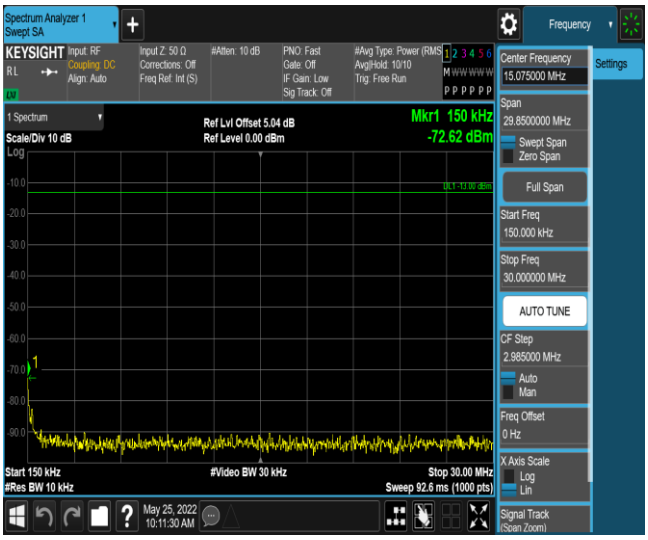


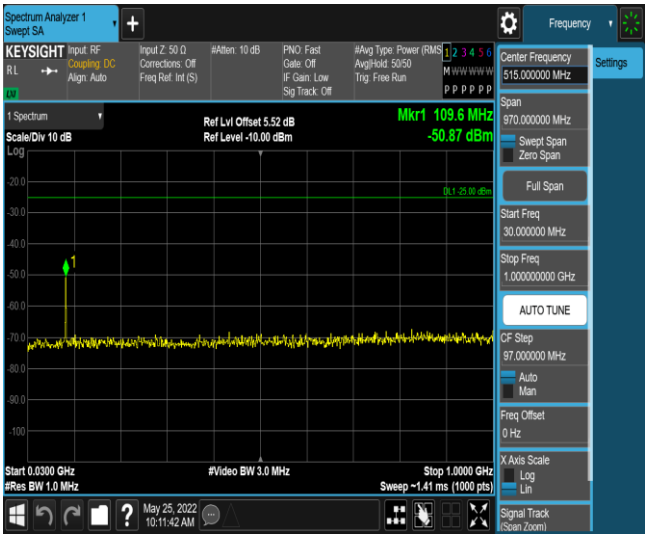
Band41-20MHz-16QAM-40620-1RB#0-Range5:3000~26500MHz



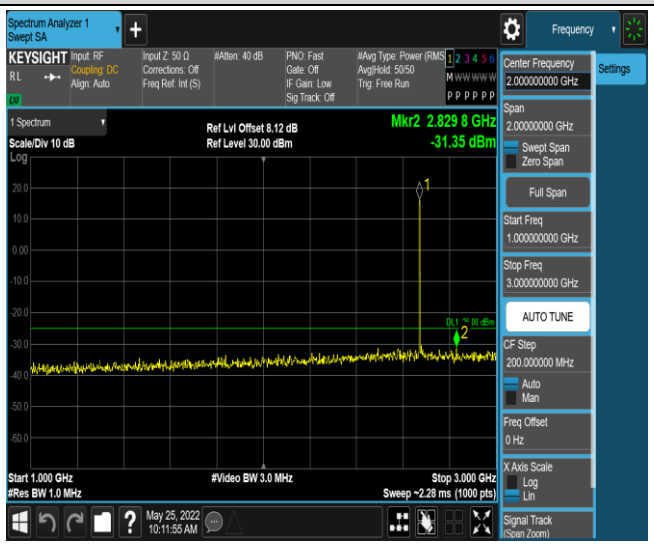
Band41-20MHz-16QAM-41490-1RB#0-Range1:0.009~0.15MHz



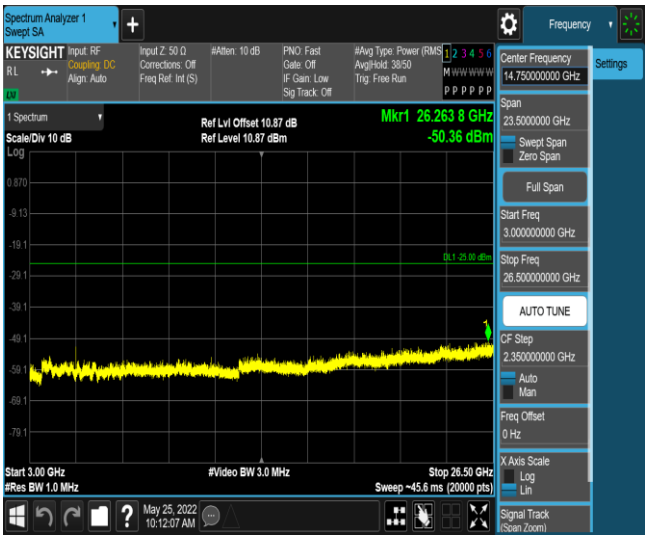
Band41-20MHz-16QAM-41490-1RB#0-Range2:0.15~30MHz



Band41-20MHz-16QAM-41490-1RB#0-Range3:30~1000MHz



Band41-20MHz-16QAM-41490-1RB#0-Range4:1000~3000MHz



Band41-20MHz-16QAM-41490-1RB#0-Range5:3000~26500MHz

Appendix F: Frequency Stability

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band41	5MHz	QPSK	39675	25RB#0	VL	NT	13.98	0.005595	±2.5	PASS
Band41	5MHz	QPSK	39675	25RB#0	VN	NT	-10.13	-0.004054	±2.5	PASS
Band41	5MHz	QPSK	39675	25RB#0	VH	NT	12.72	0.005091	±2.5	PASS
Band41	5MHz	QPSK	40620	25RB#0	VL	NT	6.34	0.002445	±2.5	PASS
Band41	5MHz	QPSK	40620	25RB#0	VN	NT	-15.21	-0.005866	±2.5	PASS
Band41	5MHz	QPSK	40620	25RB#0	VH	NT	-15.05	-0.005804	±2.5	PASS
Band41	5MHz	QPSK	41565	25RB#0	VL	NT	10.81	0.004022	±2.5	PASS
Band41	5MHz	QPSK	41565	25RB#0	VN	NT	-11.82	-0.004398	±2.5	PASS
Band41	5MHz	QPSK	41565	25RB#0	VH	NT	13.16	0.004897	±2.5	PASS
Band41	5MHz	16QAM	39675	25RB#0	VL	NT	10.99	0.004399	±2.5	PASS
Band41	5MHz	16QAM	39675	25RB#0	VN	NT	10.34	0.004138	±2.5	PASS
Band41	5MHz	16QAM	39675	25RB#0	VH	NT	-12.22	-0.004891	±2.5	PASS
Band41	5MHz	16QAM	40620	25RB#0	VL	NT	-14.00	-0.005399	±2.5	PASS
Band41	5MHz	16QAM	40620	25RB#0	VN	NT	-16.22	-0.006255	±2.5	PASS
Band41	5MHz	16QAM	40620	25RB#0	VH	NT	-14.76	-0.005692	±2.5	PASS
Band41	5MHz	16QAM	41565	25RB#0	VL	NT	8.14	0.003029	±2.5	PASS
Band41	5MHz	16QAM	41565	25RB#0	VN	NT	-13.88	-0.005165	±2.5	PASS
Band41	5MHz	16QAM	41565	25RB#0	VH	NT	-13.96	-0.005194	±2.5	PASS
Band41	10MHz	QPSK	39700	50RB#0	VL	NT	-13.35	-0.005338	±2.5	PASS
Band41	10MHz	QPSK	39700	50RB#0	VN	NT	-14.79	-0.005914	±2.5	PASS
Band41	10MHz	QPSK	39700	50RB#0	VH	NT	9.78	0.003910	±2.5	PASS
Band41	10MHz	QPSK	40620	50RB#0	VL	NT	-14.71	-0.005673	±2.5	PASS
Band41	10MHz	QPSK	40620	50RB#0	VN	NT	-8.87	-0.003421	±2.5	PASS
Band41	10MHz	QPSK	40620	50RB#0	VH	NT	-10.64	-0.004103	±2.5	PASS
Band41	10MHz	QPSK	41540	50RB#0	VL	NT	12.03	0.004480	±2.5	PASS
Band41	10MHz	QPSK	41540	50RB#0	VN	NT	7.82	0.002912	±2.5	PASS
Band41	10MHz	QPSK	41540	50RB#0	VH	NT	-16.71	-0.006223	±2.5	PASS
Band41	10MHz	16QAM	39700	50RB#0	VL	NT	-15.48	-0.006190	±2.5	PASS
Band41	10MHz	16QAM	39700	50RB#0	VN	NT	13.32	0.005326	±2.5	PASS
Band41	10MHz	16QAM	39700	50RB#0	VH	NT	-14.58	-0.005830	±2.5	PASS
Band41	10MHz	16QAM	40620	50RB#0	VL	NT	11.29	0.004354	±2.5	PASS
Band41	10MHz	16QAM	40620	50RB#0	VN	NT	-16.12	-0.006217	±2.5	PASS

Band41	10MHz	16QAM	40620	50RB#0	VH	NT	-11.96	-0.004612	±2.5	PASS
Band41	10MHz	16QAM	41540	50RB#0	VL	NT	13.33	0.004965	±2.5	PASS
Band41	10MHz	16QAM	41540	50RB#0	VN	NT	-5.98	-0.002227	±2.5	PASS
Band41	10MHz	16QAM	41540	50RB#0	VH	NT	-13.60	-0.005065	±2.5	PASS
Band41	15MHz	QPSK	39725	75RB#0	VL	NT	-15.02	-0.006000	±2.5	PASS
Band41	15MHz	QPSK	39725	75RB#0	VN	NT	-14.72	-0.005880	±2.5	PASS
Band41	15MHz	QPSK	39725	75RB#0	VH	NT	-14.33	-0.005724	±2.5	PASS
Band41	15MHz	QPSK	40620	75RB#0	VL	NT	5.75	0.002218	±2.5	PASS
Band41	15MHz	QPSK	40620	75RB#0	VN	NT	-13.89	-0.005357	±2.5	PASS
Band41	15MHz	QPSK	40620	75RB#0	VH	NT	-15.11	-0.005827	±2.5	PASS
Band41	15MHz	QPSK	41515	75RB#0	VL	NT	9.43	0.003515	±2.5	PASS
Band41	15MHz	QPSK	41515	75RB#0	VN	NT	-15.16	-0.005651	±2.5	PASS
Band41	15MHz	QPSK	41515	75RB#0	VH	NT	-9.48	-0.003534	±2.5	PASS
Band41	15MHz	16QAM	39725	75RB#0	VL	NT	-12.46	-0.004977	±2.5	PASS
Band41	15MHz	16QAM	39725	75RB#0	VN	NT	-15.03	-0.006004	±2.5	PASS
Band41	15MHz	16QAM	39725	75RB#0	VH	NT	-11.74	-0.004689	±2.5	PASS
Band41	15MHz	16QAM	40620	75RB#0	VL	NT	-14.45	-0.005573	±2.5	PASS
Band41	15MHz	16QAM	40620	75RB#0	VN	NT	-12.42	-0.004790	±2.5	PASS
Band41	15MHz	16QAM	40620	75RB#0	VH	NT	-10.90	-0.004204	±2.5	PASS
Band41	15MHz	16QAM	41515	75RB#0	VL	NT	-14.61	-0.005446	±2.5	PASS
Band41	15MHz	16QAM	41515	75RB#0	VN	NT	-7.41	-0.002762	±2.5	PASS
Band41	15MHz	16QAM	41515	75RB#0	VH	NT	-13.32	-0.004966	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	VL	NT	10.14	0.004046	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	VN	NT	14.00	0.005587	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	VH	NT	-13.95	-0.005567	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	VL	NT	-11.82	-0.004558	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	VN	NT	-13.46	-0.005191	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	VH	NT	6.17	0.002379	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	VL	NT	-10.00	-0.003731	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	VN	NT	-18.57	-0.006929	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	VH	NT	-9.08	-0.003388	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	VL	NT	-18.07	-0.007211	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	VN	NT	-9.11	-0.003635	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	VH	NT	15.66	0.006249	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	VL	NT	10.89	0.004200	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	VN	NT	-18.27	-0.007046	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	VH	NT	-23.42	-0.009032	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	VL	NT	-14.02	-0.005231	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	VN	NT	-14.55	-0.005429	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	VH	NT	-10.50	-0.003918	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band41	5MHz	QPSK	39675	25RB#0	NV	-30	12.37	0.004951	±2.5	PASS
Band41	5MHz	QPSK	39675	25RB#0	NV	-20	11.63	0.004655	±2.5	PASS
Band41	5MHz	QPSK	39675	25RB#0	NV	0	12.25	0.004903	±2.5	PASS
Band41	5MHz	QPSK	39675	25RB#0	NV	10	7.98	0.003194	±2.5	PASS
Band41	5MHz	QPSK	39675	25RB#0	NV	20	14.20	0.005683	±2.5	PASS
Band41	5MHz	QPSK	40620	25RB#0	NV	-30	-14.03	-0.005411	±2.5	PASS
Band41	5MHz	QPSK	40620	25RB#0	NV	-20	-10.09	-0.003891	±2.5	PASS
Band41	5MHz	QPSK	40620	25RB#0	NV	0	-13.99	-0.005395	±2.5	PASS
Band41	5MHz	QPSK	40620	25RB#0	NV	10	-6.81	-0.002626	±2.5	PASS
Band41	5MHz	QPSK	40620	25RB#0	NV	20	-11.14	-0.004296	±2.5	PASS
Band41	5MHz	QPSK	41565	25RB#0	NV	-30	-13.70	-0.005098	±2.5	PASS
Band41	5MHz	QPSK	41565	25RB#0	NV	-20	11.09	0.004127	±2.5	PASS
Band41	5MHz	QPSK	41565	25RB#0	NV	0	-13.30	-0.004949	±2.5	PASS
Band41	5MHz	QPSK	41565	25RB#0	NV	10	-11.67	-0.004342	±2.5	PASS
Band41	5MHz	QPSK	41565	25RB#0	NV	20	-9.00	-0.003349	±2.5	PASS
Band41	5MHz	16QAM	39675	25RB#0	NV	-30	-12.56	-0.005027	±2.5	PASS
Band41	5MHz	16QAM	39675	25RB#0	NV	-20	-10.67	-0.004271	±2.5	PASS
Band41	5MHz	16QAM	39675	25RB#0	NV	0	13.13	0.005255	±2.5	PASS
Band41	5MHz	16QAM	39675	25RB#0	NV	10	10.94	0.004379	±2.5	PASS
Band41	5MHz	16QAM	39675	25RB#0	NV	20	-18.10	-0.007244	±2.5	PASS
Band41	5MHz	16QAM	40620	25RB#0	NV	-30	-6.79	-0.002619	±2.5	PASS
Band41	5MHz	16QAM	40620	25RB#0	NV	-20	-16.99	-0.006552	±2.5	PASS
Band41	5MHz	16QAM	40620	25RB#0	NV	0	-16.75	-0.006460	±2.5	PASS
Band41	5MHz	16QAM	40620	25RB#0	NV	10	-8.96	-0.003455	±2.5	PASS
Band41	5MHz	16QAM	40620	25RB#0	NV	20	-8.44	-0.003255	±2.5	PASS
Band41	5MHz	16QAM	41565	25RB#0	NV	-30	8.51	0.003167	±2.5	PASS
Band41	5MHz	16QAM	41565	25RB#0	NV	-20	-15.19	-0.005652	±2.5	PASS
Band41	5MHz	16QAM	41565	25RB#0	NV	0	-9.54	-0.003550	±2.5	PASS
Band41	5MHz	16QAM	41565	25RB#0	NV	10	-12.63	-0.004700	±2.5	PASS
Band41	5MHz	16QAM	41565	25RB#0	NV	20	-10.49	-0.003903	±2.5	PASS
Band41	10MHz	QPSK	39700	50RB#0	NV	-30	-17.77	-0.007105	±2.5	PASS
Band41	10MHz	QPSK	39700	50RB#0	NV	-20	-12.80	-0.005118	±2.5	PASS
Band41	10MHz	QPSK	39700	50RB#0	NV	0	-14.86	-0.005942	±2.5	PASS
Band41	10MHz	QPSK	39700	50RB#0	NV	10	7.42	0.002967	±2.5	PASS
Band41	10MHz	QPSK	39700	50RB#0	NV	20	6.65	0.002659	±2.5	PASS
Band41	10MHz	QPSK	40620	50RB#0	NV	-30	-13.56	-0.005229	±2.5	PASS
Band41	10MHz	QPSK	40620	50RB#0	NV	-20	-11.16	-0.004304	±2.5	PASS

Band41	10MHz	QPSK	40620	50RB#0	NV	0	10.73	0.004138	±2.5	PASS
Band41	10MHz	QPSK	40620	50RB#0	NV	10	-13.89	-0.005357	±2.5	PASS
Band41	10MHz	QPSK	40620	50RB#0	NV	20	-12.69	-0.004894	±2.5	PASS
Band41	10MHz	QPSK	41540	50RB#0	NV	-30	-6.67	-0.002484	±2.5	PASS
Band41	10MHz	QPSK	41540	50RB#0	NV	-20	-15.23	-0.005672	±2.5	PASS
Band41	10MHz	QPSK	41540	50RB#0	NV	0	-11.10	-0.004134	±2.5	PASS
Band41	10MHz	QPSK	41540	50RB#0	NV	10	11.09	0.004130	±2.5	PASS
Band41	10MHz	QPSK	41540	50RB#0	NV	20	16.45	0.006127	±2.5	PASS
Band41	10MHz	16QAM	39700	50RB#0	NV	-30	7.65	0.003059	±2.5	PASS
Band41	10MHz	16QAM	39700	50RB#0	NV	-20	-12.02	-0.004806	±2.5	PASS
Band41	10MHz	16QAM	39700	50RB#0	NV	0	-14.45	-0.005778	±2.5	PASS
Band41	10MHz	16QAM	39700	50RB#0	NV	10	-16.71	-0.006681	±2.5	PASS
Band41	10MHz	16QAM	39700	50RB#0	NV	20	-9.08	-0.003631	±2.5	PASS
Band41	10MHz	16QAM	40620	50RB#0	NV	-30	-5.65	-0.002179	±2.5	PASS
Band41	10MHz	16QAM	40620	50RB#0	NV	-20	11.72	0.004520	±2.5	PASS
Band41	10MHz	16QAM	40620	50RB#0	NV	0	-5.41	-0.002086	±2.5	PASS
Band41	10MHz	16QAM	40620	50RB#0	NV	10	-13.22	-0.005098	±2.5	PASS
Band41	10MHz	16QAM	40620	50RB#0	NV	20	-18.71	-0.007216	±2.5	PASS
Band41	10MHz	16QAM	41540	50RB#0	NV	-30	-14.02	-0.005222	±2.5	PASS
Band41	10MHz	16QAM	41540	50RB#0	NV	-20	-7.08	-0.002637	±2.5	PASS
Band41	10MHz	16QAM	41540	50RB#0	NV	0	-12.36	-0.004603	±2.5	PASS
Band41	10MHz	16QAM	41540	50RB#0	NV	10	-7.58	-0.002823	±2.5	PASS
Band41	10MHz	16QAM	41540	50RB#0	NV	20	11.39	0.004242	±2.5	PASS
Band41	15MHz	QPSK	39725	75RB#0	NV	-30	-10.10	-0.004034	±2.5	PASS
Band41	15MHz	QPSK	39725	75RB#0	NV	-20	-18.10	-0.007230	±2.5	PASS
Band41	15MHz	QPSK	39725	75RB#0	NV	0	-14.88	-0.005944	±2.5	PASS
Band41	15MHz	QPSK	39725	75RB#0	NV	10	-13.13	-0.005245	±2.5	PASS
Band41	15MHz	QPSK	39725	75RB#0	NV	20	-11.56	-0.004618	±2.5	PASS
Band41	15MHz	QPSK	40620	75RB#0	NV	-30	-18.07	-0.006969	±2.5	PASS
Band41	15MHz	QPSK	40620	75RB#0	NV	-20	-15.79	-0.006089	±2.5	PASS
Band41	15MHz	QPSK	40620	75RB#0	NV	0	-9.76	-0.003764	±2.5	PASS
Band41	15MHz	QPSK	40620	75RB#0	NV	10	-14.63	-0.005642	±2.5	PASS
Band41	15MHz	QPSK	40620	75RB#0	NV	20	-13.90	-0.005361	±2.5	PASS
Band41	15MHz	QPSK	41515	75RB#0	NV	-30	-12.85	-0.004790	±2.5	PASS
Band41	15MHz	QPSK	41515	75RB#0	NV	-20	-11.63	-0.004336	±2.5	PASS
Band41	15MHz	QPSK	41515	75RB#0	NV	0	-11.80	-0.004399	±2.5	PASS
Band41	15MHz	QPSK	41515	75RB#0	NV	10	-17.64	-0.006576	±2.5	PASS
Band41	15MHz	QPSK	41515	75RB#0	NV	20	-15.62	-0.005823	±2.5	PASS
Band41	15MHz	16QAM	39725	75RB#0	NV	-30	-7.18	-0.002868	±2.5	PASS
Band41	15MHz	16QAM	39725	75RB#0	NV	-20	-16.08	-0.006423	±2.5	PASS
Band41	15MHz	16QAM	39725	75RB#0	NV	0	-13.35	-0.005333	±2.5	PASS

Band41	15MHz	16QAM	39725	75RB#0	NV	10	-11.93	-0.004765	±2.5	PASS
Band41	15MHz	16QAM	39725	75RB#0	NV	20	-12.55	-0.005013	±2.5	PASS
Band41	15MHz	16QAM	40620	75RB#0	NV	-30	-14.35	-0.005534	±2.5	PASS
Band41	15MHz	16QAM	40620	75RB#0	NV	-20	-7.22	-0.002784	±2.5	PASS
Band41	15MHz	16QAM	40620	75RB#0	NV	0	-16.12	-0.006217	±2.5	PASS
Band41	15MHz	16QAM	40620	75RB#0	NV	10	-15.71	-0.006059	±2.5	PASS
Band41	15MHz	16QAM	40620	75RB#0	NV	20	10.10	0.003895	±2.5	PASS
Band41	15MHz	16QAM	41515	75RB#0	NV	-30	-12.46	-0.004645	±2.5	PASS
Band41	15MHz	16QAM	41515	75RB#0	NV	-20	-17.65	-0.006580	±2.5	PASS
Band41	15MHz	16QAM	41515	75RB#0	NV	0	-6.45	-0.002404	±2.5	PASS
Band41	15MHz	16QAM	41515	75RB#0	NV	10	-13.49	-0.005029	±2.5	PASS
Band41	15MHz	16QAM	41515	75RB#0	NV	20	-11.62	-0.004332	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	-30	12.33	0.004920	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	-20	-15.26	-0.006089	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	0	11.22	0.004477	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	10	-8.01	-0.003196	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	20	-8.48	-0.003384	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-30	-18.73	-0.007223	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-20	-13.66	-0.005268	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	0	-14.62	-0.005638	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	10	-7.17	-0.002765	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	20	-6.22	-0.002399	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	-30	-14.96	-0.005582	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	-20	-10.84	-0.004045	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	0	-11.03	-0.004116	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	10	-19.11	-0.007131	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	20	10.56	0.003940	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	-30	-17.35	-0.006923	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	-20	-8.83	-0.003524	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	0	-13.39	-0.005343	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	10	-12.92	-0.005156	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	20	-11.87	-0.004737	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	-30	10.99	0.004238	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	-20	-20.33	-0.007840	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	0	-18.01	-0.006946	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	10	-18.68	-0.007204	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	20	-17.92	-0.006911	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	-30	17.12	0.006388	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	-20	-16.99	-0.006340	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	0	-15.98	-0.005963	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	10	-5.61	-0.002093	±2.5	PASS

Band41	20MHz	16QAM	41490	100RB#0	NV	20	-14.59	-0.005444	±2.5	PASS