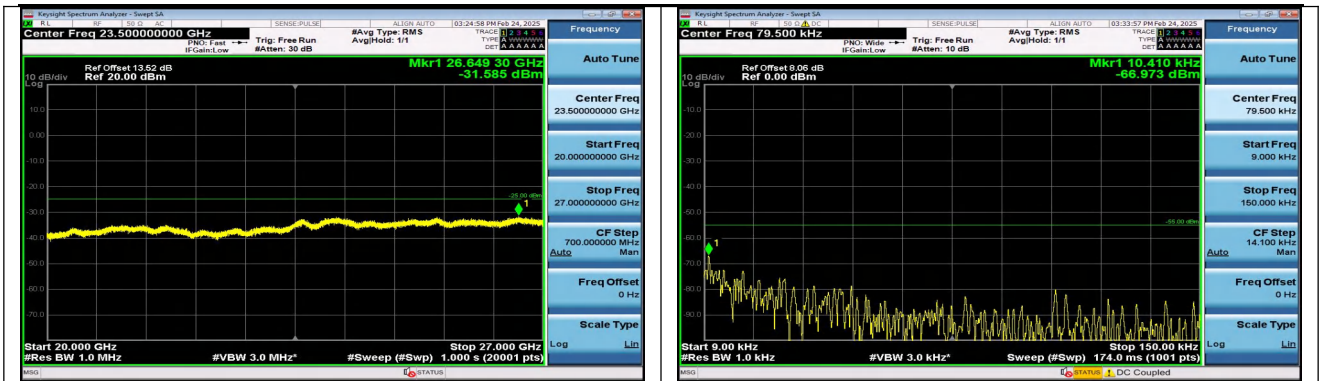
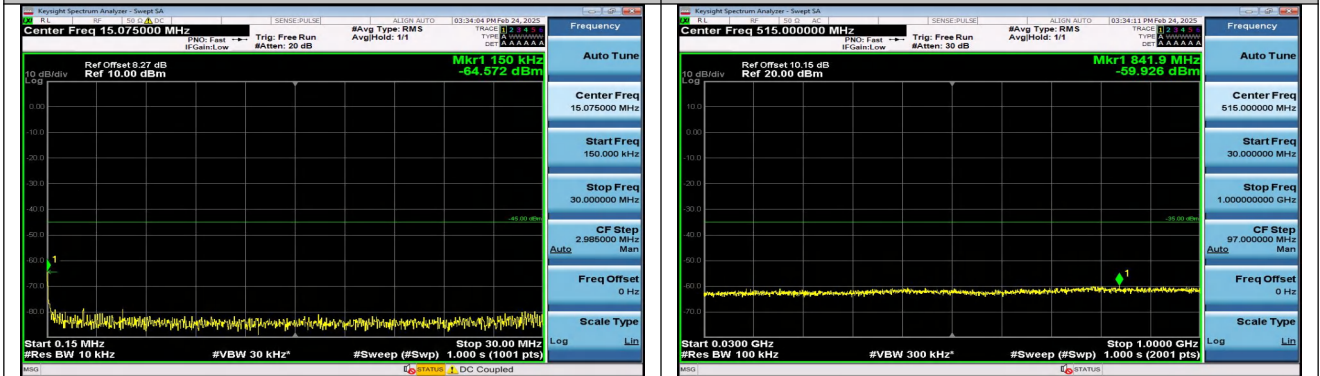




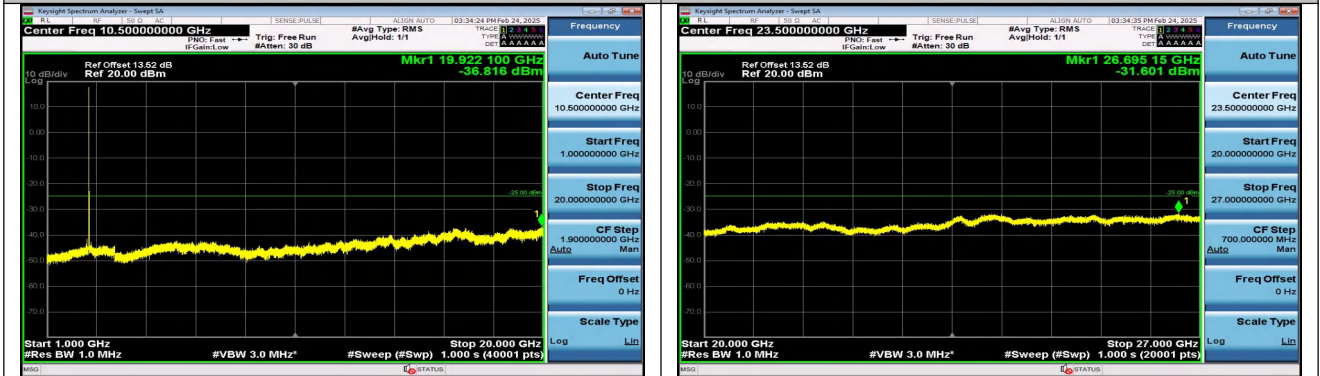
Band38_20MHz_QPSK_38000_1RB#99_20000~27000_2
0000~27000

Band38_20MHz_QPSK_38000_100RB#0_0.009~0.15_0.0
09~0.15



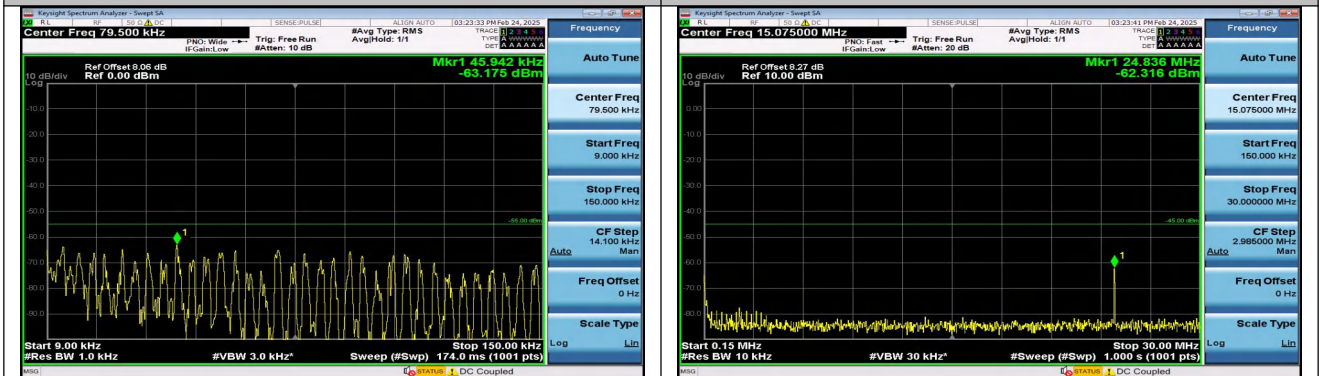
Band38_20MHz_QPSK_38000_100RB#0_0.15~30_0.15~
30

Band38_20MHz_QPSK_38000_100RB#0_30~1000_30~1
000



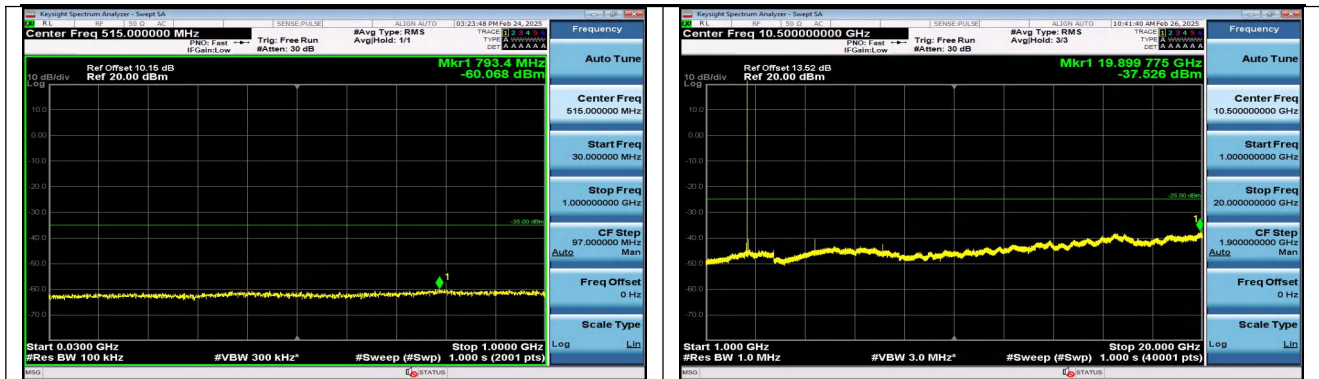
Band38_20MHz_QPSK_38000_100RB#0_1000~20000_1
000~20000

Band38_20MHz_QPSK_38000_100RB#0_20000~27000_
20000~27000



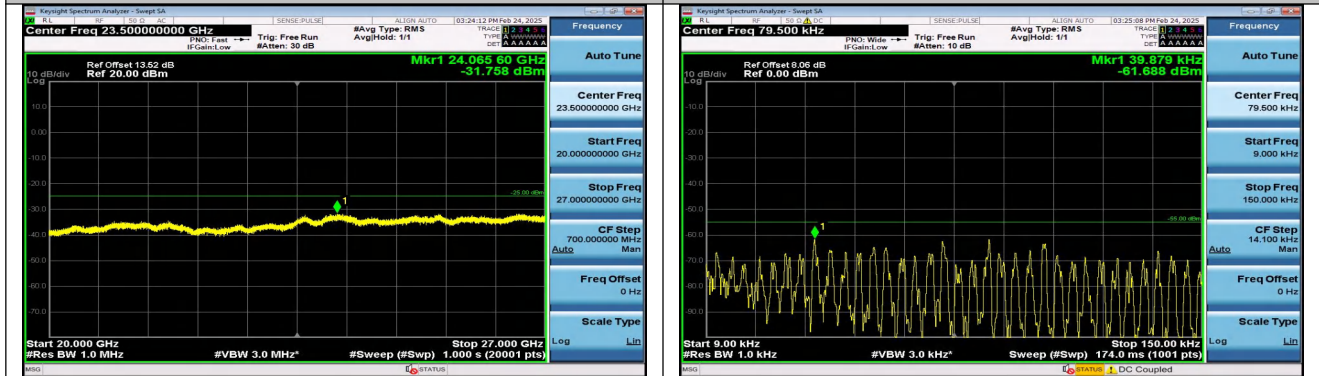
Band38_20MHz_16QAM_38000_1RB#0_0.009~0.15_0.00
9~0.15

Band38_20MHz_16QAM_38000_1RB#0_0.15~30_0.15~3
0



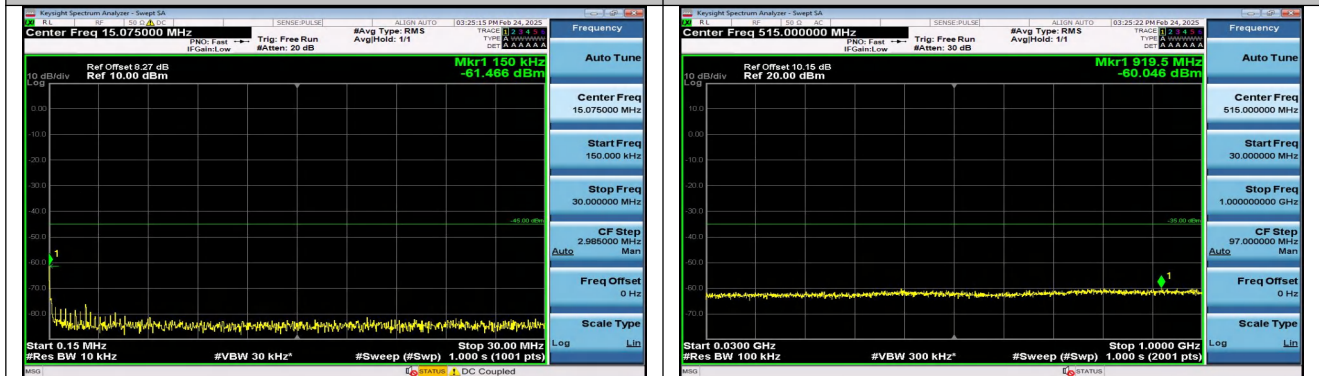
Band38_20MHz_16QAM_38000_1RB#0_30~1000_30~1000

Band38_20MHz_16QAM_38000_1RB#0_1000~20000_1000~20000



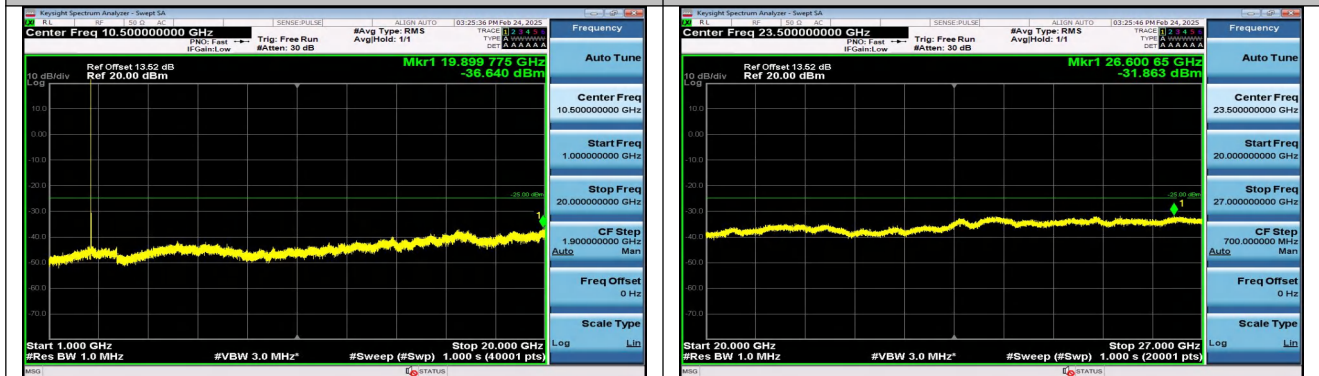
Band38_20MHz_16QAM_38000_1RB#0_20000~27000_20000~27000

Band38_20MHz_16QAM_38000_1RB#99_0.009~0.15_0.009~0.15



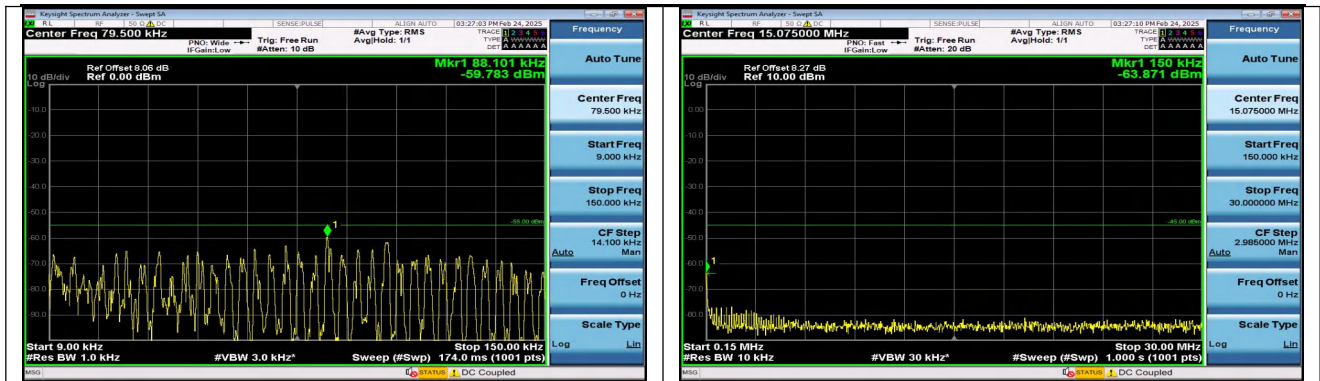
Band38_20MHz_16QAM_38000_1RB#99_0.15~30_0.15~30

Band38_20MHz_16QAM_38000_1RB#99_30~1000_30~1000



Band38_20MHz_16QAM_38000_1RB#99_1000~20000_1000~20000

Band38_20MHz_16QAM_38000_1RB#99_20000~27000_20000~27000



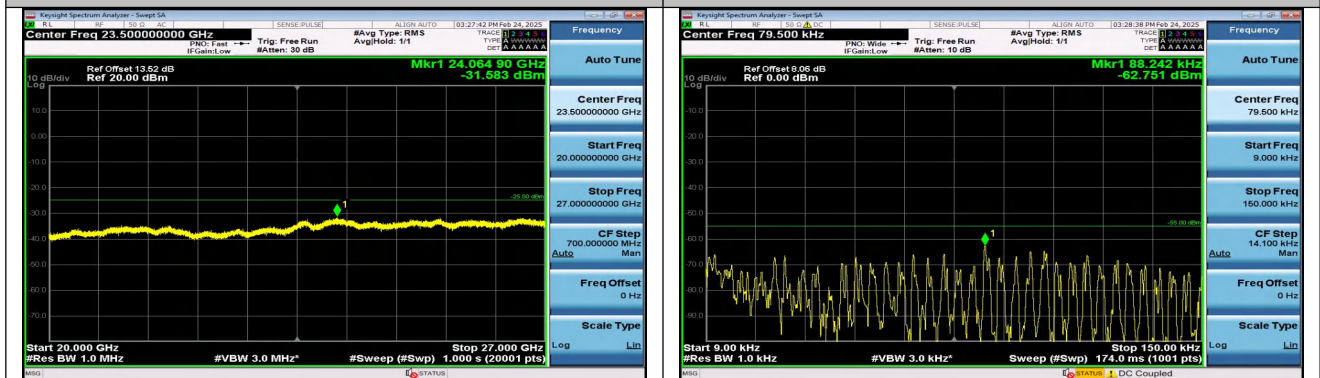
Band38_20MHz_QPSK_38150_1RB#0_0.009~0.15_0.009
~0.15

Band38_20MHz_QPSK_38150_1RB#0_0.15~30_0.15~30



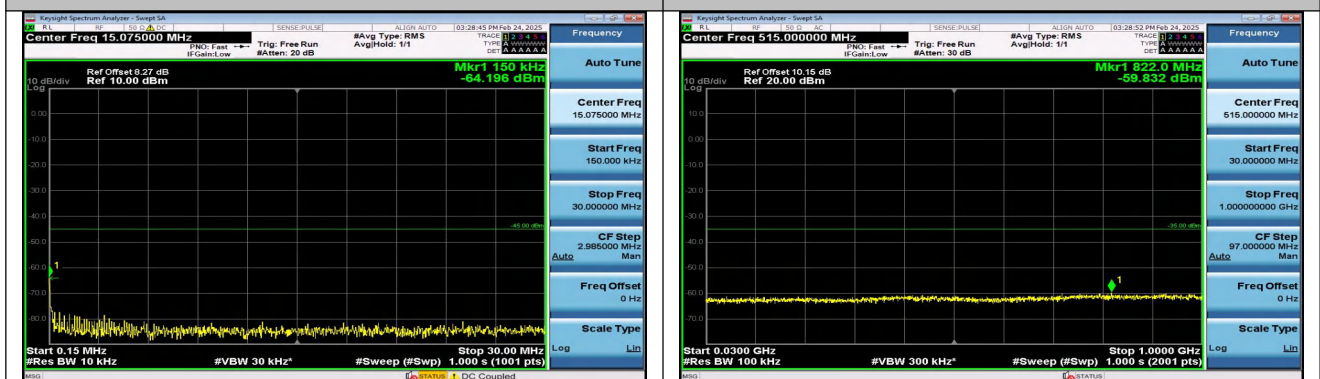
Band38_20MHz_QPSK_38150_1RB#0_30~1000_30~100

Band38_20MHz_QPSK_38150_1RB#0_1000~20000_100



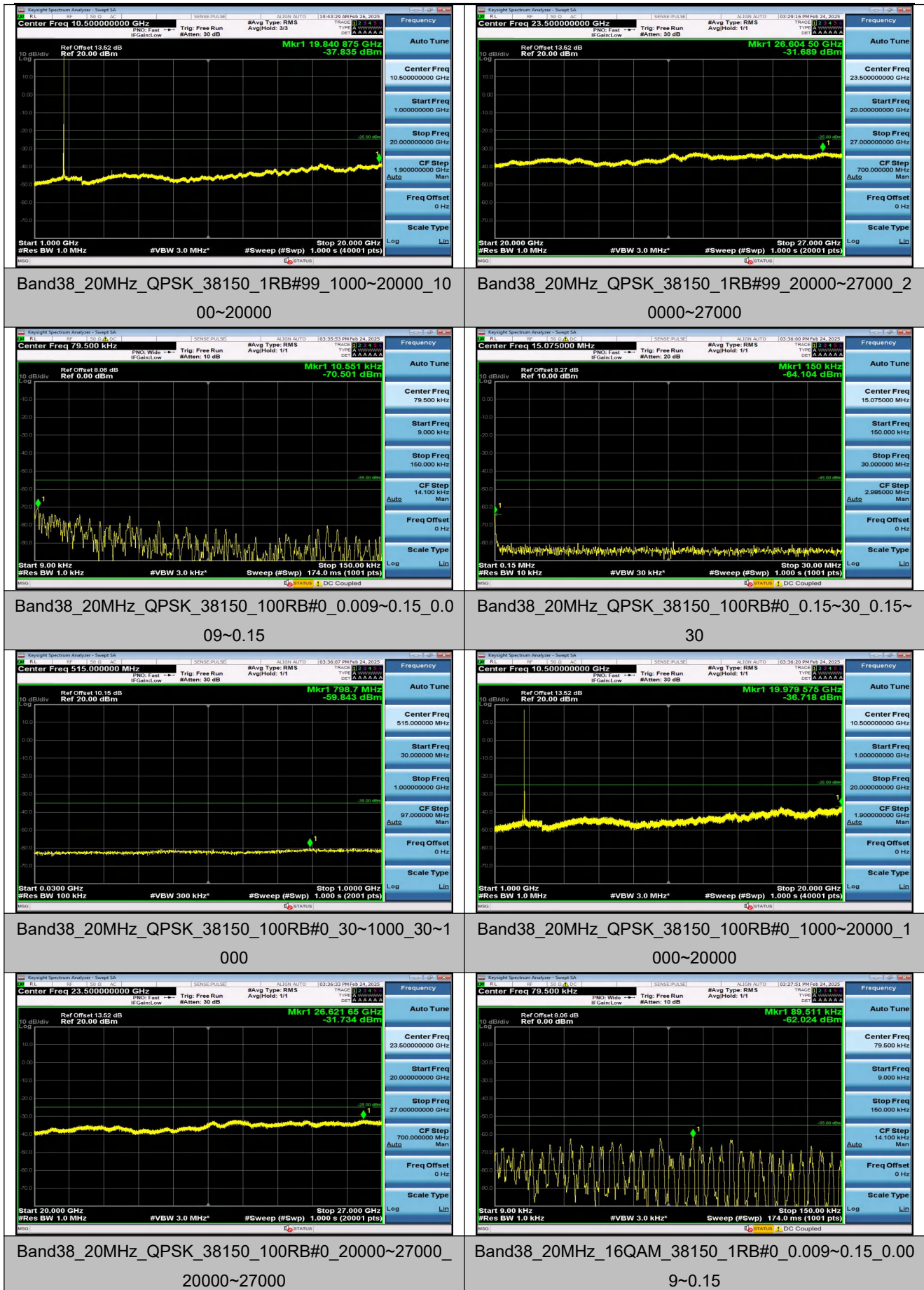
Band38_20MHz_QPSK_38150_1RB#0_20000~27000_20

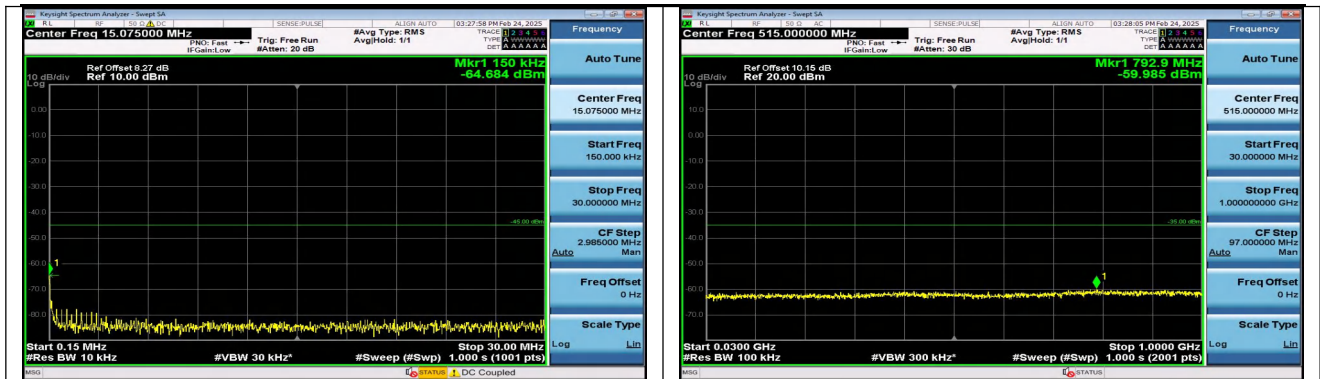
Band38_20MHz_QPSK_38150_1RB#99_0.009~0.15_0.00



Band38_20MHz_QPSK_38150_1RB#99_0.15~30_0.15~3

Band38_20MHz_QPSK_38150_1RB#99_30~1000_30~10





Band38_20MHz_16QAM_38150_1RB#0_0.15~30_0.15~3

0

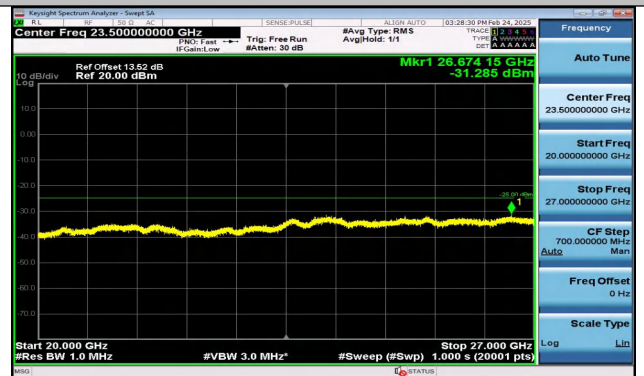
Band38_20MHz_16QAM_38150_1RB#0_30~1000_30~10

00



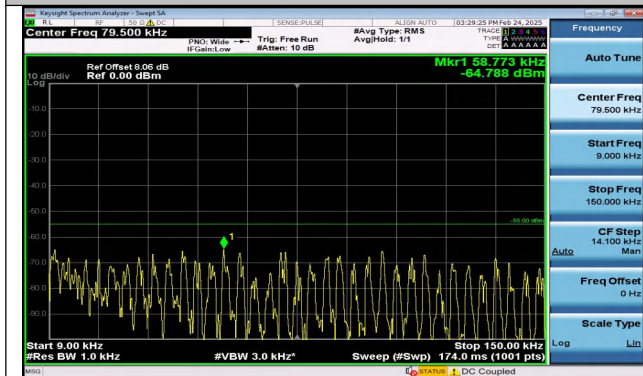
Band38_20MHz_16QAM_38150_1RB#0_1000~20000_10

00~20000



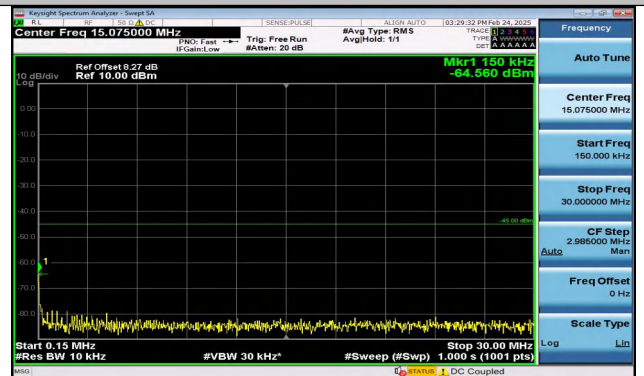
Band38_20MHz_16QAM_38150_1RB#0_20000~27000_2

0000~27000



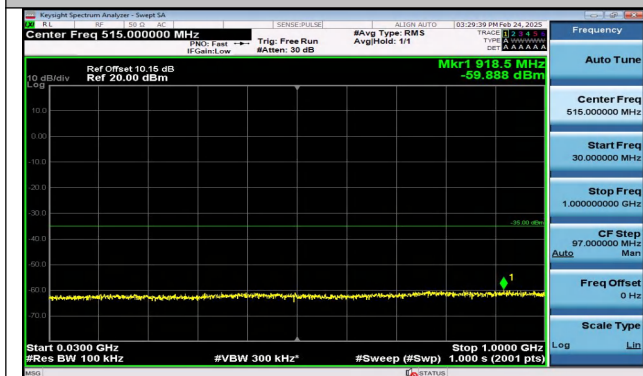
Band38_20MHz_16QAM_38150_1RB#99_0.009~0.15_0.09~0.15

09~0.15



Band38_20MHz_16QAM_38150_1RB#99_0.15~30_0.15~30

30



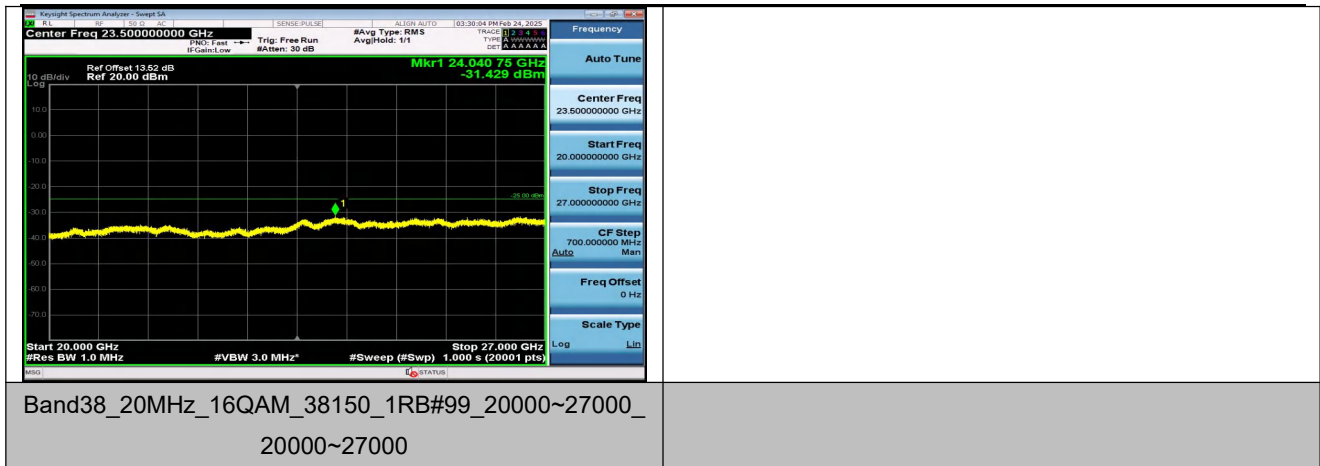
Band38_20MHz_16QAM_38150_1RB#99_30~1000_30~1

000



Band38_20MHz_16QAM_38150_1RB#99_1000~20000_1

000~20000





Appendix F: Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage		Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
					Voltage [Vdc]	Temperature (°C)				
Band38	5MHz	QPSK	37775	25RB#0	VN	NT	-39.65	-0.015413	±2.5	PASS
Band38	5MHz	QPSK	37775	25RB#0	VL	NT	19.27	0.007491	±2.5	PASS
Band38	5MHz	QPSK	37775	25RB#0	VH	NT	-8.54	-0.003320	±2.5	PASS
Band38	5MHz	16QAM	37775	25RB#0	VN	NT	14.05	0.005462	±2.5	PASS
Band38	5MHz	16QAM	37775	25RB#0	VL	NT	-25.11	-0.009761	±2.5	PASS
Band38	5MHz	16QAM	37775	25RB#0	VH	NT	-21.53	-0.008369	±2.5	PASS
Band38	5MHz	QPSK	38000	25RB#0	VN	NT	-4.36	-0.001680	±2.5	PASS
Band38	5MHz	QPSK	38000	25RB#0	VL	NT	16.11	0.006208	±2.5	PASS
Band38	5MHz	QPSK	38000	25RB#0	VH	NT	13.33	0.005137	±2.5	PASS
Band38	5MHz	16QAM	38000	25RB#0	VN	NT	9.77	0.003765	±2.5	PASS
Band38	5MHz	16QAM	38000	25RB#0	VL	NT	-19.56	-0.007538	±2.5	PASS
Band38	5MHz	16QAM	38000	25RB#0	VH	NT	-20.67	-0.007965	±2.5	PASS
Band38	5MHz	QPSK	38225	25RB#0	VN	NT	26.44	0.010101	±2.5	PASS
Band38	5MHz	QPSK	38225	25RB#0	VL	NT	22.86	0.008734	±2.5	PASS
Band38	5MHz	QPSK	38225	25RB#0	VH	NT	22.92	0.008756	±2.5	PASS
Band38	5MHz	16QAM	38225	25RB#0	VN	NT	27.05	0.010334	±2.5	PASS
Band38	5MHz	16QAM	38225	25RB#0	VL	NT	-29.74	-0.011362	±2.5	PASS
Band38	5MHz	16QAM	38225	25RB#0	VH	NT	-19.91	-0.007606	±2.5	PASS
Band38	10MHz	QPSK	37800	50RB#0	VN	NT	-41.43	-0.016089	±2.5	PASS
Band38	10MHz	QPSK	37800	50RB#0	VL	NT	21.50	0.008350	±2.5	PASS
Band38	10MHz	QPSK	37800	50RB#0	VH	NT	28.07	0.010901	±2.5	PASS
Band38	10MHz	QPSK	38000	50RB#0	VN	NT	13.92	0.005364	±2.5	PASS
Band38	10MHz	QPSK	38000	50RB#0	VL	NT	-7.93	-0.003056	±2.5	PASS
Band38	10MHz	QPSK	38000	50RB#0	VH	NT	8.11	0.003125	±2.5	PASS
Band38	10MHz	QPSK	38200	50RB#0	VN	NT	-40.07	-0.015323	±2.5	PASS
Band38	10MHz	QPSK	38200	50RB#0	VL	NT	8.35	0.003193	±2.5	PASS
Band38	10MHz	QPSK	38200	50RB#0	VH	NT	-5.99	-0.002291	±2.5	PASS
Band38	15MHz	QPSK	37825	75RB#0	VN	NT	13.55	0.005257	±2.5	PASS
Band38	15MHz	QPSK	37825	75RB#0	VL	NT	14.18	0.005501	±2.5	PASS
Band38	15MHz	QPSK	37825	75RB#0	VH	NT	13.68	0.005307	±2.5	PASS
Band38	15MHz	QPSK	38000	75RB#0	VN	NT	-21.47	-0.008274	±2.5	PASS
Band38	15MHz	QPSK	38000	75RB#0	VL	NT	-6.67	-0.002570	±2.5	PASS
Band38	15MHz	QPSK	38000	75RB#0	VH	NT	13.48	0.005195	±2.5	PASS
Band38	15MHz	QPSK	38175	75RB#0	VN	NT	9.00	0.003445	±2.5	PASS



Band38	15MHz	QPSK	38175	75RB#0	VL	NT	26.48	0.010136	±2.5	PASS
Band38	15MHz	QPSK	38175	75RB#0	VH	NT	14.05	0.005378	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	VN	NT	-43.86	-0.017000	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	VL	NT	-38.95	-0.015097	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	VH	NT	-30.96	-0.012000	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VN	NT	-35.83	-0.013807	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VL	NT	-35.43	-0.013653	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VH	NT	-21.66	-0.008347	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	VN	NT	-19.04	-0.007295	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	VL	NT	-26.19	-0.010034	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	VH	NT	-24.56	-0.009410	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band38	5MHz	QPSK	37775	25RB#0	NV	-30	25.92	0.010076	±2.5	PASS
Band38	5MHz	QPSK	37775	25RB#0	NV	-20	13.66	0.005310	±2.5	PASS
Band38	5MHz	QPSK	37775	25RB#0	NV	-10	18.87	0.007335	±2.5	PASS
Band38	5MHz	QPSK	37775	25RB#0	NV	0	-12.95	-0.005034	±2.5	PASS
Band38	5MHz	QPSK	37775	25RB#0	NV	10	16.04	0.006235	±2.5	PASS
Band38	5MHz	QPSK	37775	25RB#0	NV	20	21.11	0.008206	±2.5	PASS
Band38	5MHz	QPSK	37775	25RB#0	NV	30	22.54	0.008762	±2.5	PASS
Band38	5MHz	QPSK	37775	25RB#0	NV	40	28.04	0.010900	±2.5	PASS
Band38	5MHz	QPSK	37775	25RB#0	NV	50	-4.51	-0.001753	±2.5	PASS
Band38	5MHz	16QAM	37775	25RB#0	NV	-30	-39.97	-0.015537	±2.5	PASS
Band38	5MHz	16QAM	37775	25RB#0	NV	-20	-16.37	-0.006363	±2.5	PASS
Band38	5MHz	16QAM	37775	25RB#0	NV	-10	-29.40	-0.011429	±2.5	PASS
Band38	5MHz	16QAM	37775	25RB#0	NV	0	-35.65	-0.013858	±2.5	PASS
Band38	5MHz	16QAM	37775	25RB#0	NV	10	-34.65	-0.013469	±2.5	PASS
Band38	5MHz	16QAM	37775	25RB#0	NV	20	-14.02	-0.005450	±2.5	PASS
Band38	5MHz	16QAM	37775	25RB#0	NV	30	-28.55	-0.011098	±2.5	PASS
Band38	5MHz	16QAM	37775	25RB#0	NV	40	-27.55	-0.010709	±2.5	PASS
Band38	5MHz	16QAM	37775	25RB#0	NV	50	-25.62	-0.009959	±2.5	PASS
Band38	5MHz	QPSK	38000	25RB#0	NV	-30	20.76	0.008000	±2.5	PASS
Band38	5MHz	QPSK	38000	25RB#0	NV	-20	-4.01	-0.001545	±2.5	PASS
Band38	5MHz	QPSK	38000	25RB#0	NV	-10	11.07	0.004266	±2.5	PASS
Band38	5MHz	QPSK	38000	25RB#0	NV	0	11.89	0.004582	±2.5	PASS
Band38	5MHz	QPSK	38000	25RB#0	NV	10	21.44	0.008262	±2.5	PASS
Band38	5MHz	QPSK	38000	25RB#0	NV	20	20.33	0.007834	±2.5	PASS
Band38	5MHz	QPSK	38000	25RB#0	NV	30	19.35	0.007457	±2.5	PASS
Band38	5MHz	QPSK	38000	25RB#0	NV	40	27.18	0.010474	±2.5	PASS



Band38	5MHz	QPSK	38000	25RB#0	NV	50	-11.20	-0.004316	±2.5	PASS
Band38	5MHz	16QAM	38000	25RB#0	NV	-30	-28.84	-0.011114	±2.5	PASS
Band38	5MHz	16QAM	38000	25RB#0	NV	-20	-12.50	-0.004817	±2.5	PASS
Band38	5MHz	16QAM	38000	25RB#0	NV	-10	-25.99	-0.010015	±2.5	PASS
Band38	5MHz	16QAM	38000	25RB#0	NV	0	-34.12	-0.013148	±2.5	PASS
Band38	5MHz	16QAM	38000	25RB#0	NV	10	-12.04	-0.004640	±2.5	PASS
Band38	5MHz	16QAM	38000	25RB#0	NV	20	-16.42	-0.006328	±2.5	PASS
Band38	5MHz	16QAM	38000	25RB#0	NV	30	-20.00	-0.007707	±2.5	PASS
Band38	5MHz	16QAM	38000	25RB#0	NV	40	-24.15	-0.009306	±2.5	PASS
Band38	5MHz	16QAM	38000	25RB#0	NV	50	-23.32	-0.008987	±2.5	PASS
Band38	5MHz	QPSK	38225	25RB#0	NV	-30	12.57	0.004802	±2.5	PASS
Band38	5MHz	QPSK	38225	25RB#0	NV	-20	19.54	0.007465	±2.5	PASS
Band38	5MHz	QPSK	38225	25RB#0	NV	-10	31.19	0.011916	±2.5	PASS
Band38	5MHz	QPSK	38225	25RB#0	NV	0	9.83	0.003755	±2.5	PASS
Band38	5MHz	QPSK	38225	25RB#0	NV	10	10.06	0.003843	±2.5	PASS
Band38	5MHz	QPSK	38225	25RB#0	NV	20	15.01	0.005734	±2.5	PASS
Band38	5MHz	QPSK	38225	25RB#0	NV	30	18.75	0.007163	±2.5	PASS
Band38	5MHz	QPSK	38225	25RB#0	NV	40	25.19	0.009624	±2.5	PASS
Band38	5MHz	QPSK	38225	25RB#0	NV	50	27.38	0.010460	±2.5	PASS
Band38	5MHz	16QAM	38225	25RB#0	NV	-30	-35.45	-0.013543	±2.5	PASS
Band38	5MHz	16QAM	38225	25RB#0	NV	-20	-15.55	-0.005941	±2.5	PASS
Band38	5MHz	16QAM	38225	25RB#0	NV	-10	-22.27	-0.008508	±2.5	PASS
Band38	5MHz	16QAM	38225	25RB#0	NV	0	-30.23	-0.011549	±2.5	PASS
Band38	5MHz	16QAM	38225	25RB#0	NV	10	-30.38	-0.011606	±2.5	PASS
Band38	5MHz	16QAM	38225	25RB#0	NV	20	-11.57	-0.004420	±2.5	PASS
Band38	5MHz	16QAM	38225	25RB#0	NV	30	-15.35	-0.005864	±2.5	PASS
Band38	5MHz	16QAM	38225	25RB#0	NV	40	-17.61	-0.006728	±2.5	PASS
Band38	5MHz	16QAM	38225	25RB#0	NV	50	-22.04	-0.008420	±2.5	PASS
Band38	10MHz	QPSK	37800	50RB#0	NV	-30	17.38	0.006750	±2.5	PASS
Band38	10MHz	QPSK	37800	50RB#0	NV	-20	-12.15	-0.004718	±2.5	PASS
Band38	10MHz	QPSK	37800	50RB#0	NV	-10	15.31	0.005946	±2.5	PASS
Band38	10MHz	QPSK	37800	50RB#0	NV	0	22.70	0.008816	±2.5	PASS
Band38	10MHz	QPSK	37800	50RB#0	NV	10	-10.99	-0.004268	±2.5	PASS
Band38	10MHz	QPSK	37800	50RB#0	NV	20	7.18	0.002788	±2.5	PASS
Band38	10MHz	QPSK	37800	50RB#0	NV	30	16.51	0.006412	±2.5	PASS
Band38	10MHz	QPSK	37800	50RB#0	NV	40	15.18	0.005895	±2.5	PASS
Band38	10MHz	QPSK	37800	50RB#0	NV	50	22.42	0.008707	±2.5	PASS
Band38	10MHz	QPSK	38000	50RB#0	NV	-30	6.42	0.002474	±2.5	PASS
Band38	10MHz	QPSK	38000	50RB#0	NV	-20	8.64	0.003329	±2.5	PASS
Band38	10MHz	QPSK	38000	50RB#0	NV	-10	11.76	0.004532	±2.5	PASS
Band38	10MHz	QPSK	38000	50RB#0	NV	0	9.53	0.003672	±2.5	PASS



Band38	10MHz	QPSK	38000	50RB#0	NV	10	10.61	0.004089	±2.5	PASS
Band38	10MHz	QPSK	38000	50RB#0	NV	20	7.55	0.002909	±2.5	PASS
Band38	10MHz	QPSK	38000	50RB#0	NV	30	9.50	0.003661	±2.5	PASS
Band38	10MHz	QPSK	38000	50RB#0	NV	40	11.47	0.004420	±2.5	PASS
Band38	10MHz	QPSK	38000	50RB#0	NV	50	9.46	0.003645	±2.5	PASS
Band38	10MHz	QPSK	38200	50RB#0	NV	-30	9.97	0.003813	±2.5	PASS
Band38	10MHz	QPSK	38200	50RB#0	NV	-20	19.58	0.007488	±2.5	PASS
Band38	10MHz	QPSK	38200	50RB#0	NV	-10	17.47	0.006681	±2.5	PASS
Band38	10MHz	QPSK	38200	50RB#0	NV	0	22.85	0.008738	±2.5	PASS
Band38	10MHz	QPSK	38200	50RB#0	NV	10	24.91	0.009526	±2.5	PASS
Band38	10MHz	QPSK	38200	50RB#0	NV	20	24.29	0.009289	±2.5	PASS
Band38	10MHz	QPSK	38200	50RB#0	NV	30	25.35	0.009694	±2.5	PASS
Band38	10MHz	QPSK	38200	50RB#0	NV	40	28.90	0.011052	±2.5	PASS
Band38	10MHz	QPSK	38200	50RB#0	NV	50	-8.18	-0.003128	±2.5	PASS
Band38	15MHz	QPSK	37825	75RB#0	NV	-30	8.74	0.003391	±2.5	PASS
Band38	15MHz	QPSK	37825	75RB#0	NV	-20	31.44	0.012198	±2.5	PASS
Band38	15MHz	QPSK	37825	75RB#0	NV	-10	20.07	0.007787	±2.5	PASS
Band38	15MHz	QPSK	37825	75RB#0	NV	0	11.64	0.004516	±2.5	PASS
Band38	15MHz	QPSK	37825	75RB#0	NV	10	28.30	0.010980	±2.5	PASS
Band38	15MHz	QPSK	37825	75RB#0	NV	20	14.08	0.005463	±2.5	PASS
Band38	15MHz	QPSK	37825	75RB#0	NV	30	-11.42	-0.004431	±2.5	PASS
Band38	15MHz	QPSK	37825	75RB#0	NV	40	19.34	0.007503	±2.5	PASS
Band38	15MHz	QPSK	37825	75RB#0	NV	50	-9.40	-0.003647	±2.5	PASS
Band38	15MHz	QPSK	38000	75RB#0	NV	-30	26.99	0.010401	±2.5	PASS
Band38	15MHz	QPSK	38000	75RB#0	NV	-20	10.23	0.003942	±2.5	PASS
Band38	15MHz	QPSK	38000	75RB#0	NV	-10	17.81	0.006863	±2.5	PASS
Band38	15MHz	QPSK	38000	75RB#0	NV	0	24.56	0.009464	±2.5	PASS
Band38	15MHz	QPSK	38000	75RB#0	NV	10	4.72	0.001819	±2.5	PASS
Band38	15MHz	QPSK	38000	75RB#0	NV	20	11.22	0.004324	±2.5	PASS
Band38	15MHz	QPSK	38000	75RB#0	NV	30	16.61	0.006401	±2.5	PASS
Band38	15MHz	QPSK	38000	75RB#0	NV	40	23.46	0.009040	±2.5	PASS
Band38	15MHz	QPSK	38000	75RB#0	NV	50	-7.85	-0.003025	±2.5	PASS
Band38	15MHz	QPSK	38175	75RB#0	NV	-30	18.81	0.007200	±2.5	PASS
Band38	15MHz	QPSK	38175	75RB#0	NV	-20	17.87	0.006840	±2.5	PASS
Band38	15MHz	QPSK	38175	75RB#0	NV	-10	20.40	0.007809	±2.5	PASS
Band38	15MHz	QPSK	38175	75RB#0	NV	0	14.15	0.005416	±2.5	PASS
Band38	15MHz	QPSK	38175	75RB#0	NV	10	6.14	0.002350	±2.5	PASS
Band38	15MHz	QPSK	38175	75RB#0	NV	20	24.06	0.009210	±2.5	PASS
Band38	15MHz	QPSK	38175	75RB#0	NV	30	15.58	0.005964	±2.5	PASS
Band38	15MHz	QPSK	38175	75RB#0	NV	40	-8.93	-0.003418	±2.5	PASS
Band38	15MHz	QPSK	38175	75RB#0	NV	50	14.20	0.005435	±2.5	PASS



Band38	20MHz	QPSK	37850	100RB#0	NV	-30	-24.45	-0.009477	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	-20	-35.09	-0.013601	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	-10	-29.98	-0.011620	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	0	-10.81	-0.004190	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	10	19.48	0.007550	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	20	18.04	0.006992	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	30	14.58	0.005651	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	40	14.52	0.005628	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	50	9.60	0.003721	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-30	-25.86	-0.009965	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-20	-26.78	-0.010320	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-10	-14.35	-0.005530	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	0	7.65	0.002948	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	10	26.91	0.010370	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	20	17.77	0.006848	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	30	15.38	0.005927	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	40	8.58	0.003306	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	50	25.89	0.009977	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	-30	-26.85	-0.010287	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	-20	-15.54	-0.005954	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	-10	9.71	0.003720	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	0	25.26	0.009678	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	10	21.92	0.008398	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	20	15.62	0.005985	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	30	13.26	0.005080	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	40	-7.47	-0.002862	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	50	24.59	0.009421	±2.5	PASS