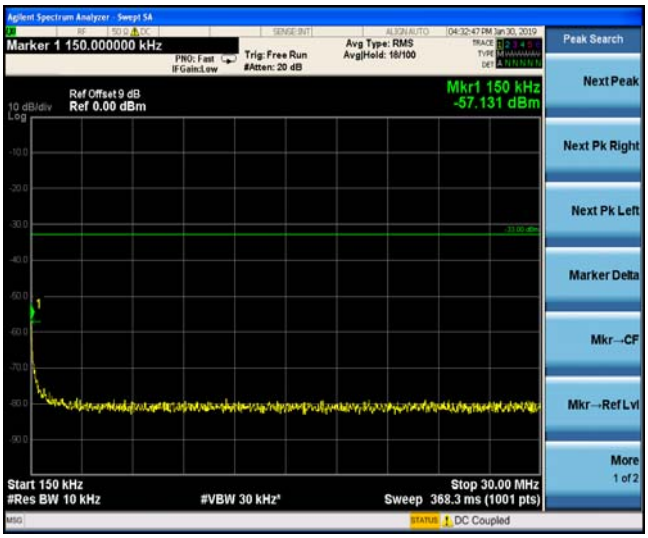
Band25_5MHz_QPSK_26365_1RB#0

Band25_5MHz_QPSK_26365_1RB#0



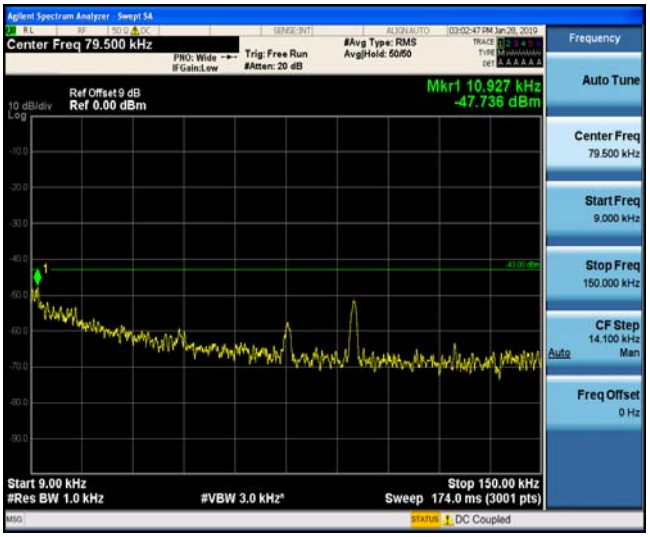
Band25_5MHz_QPSK_26365_1RB#0

Band25_5MHz_QPSK_26365_1RB#0

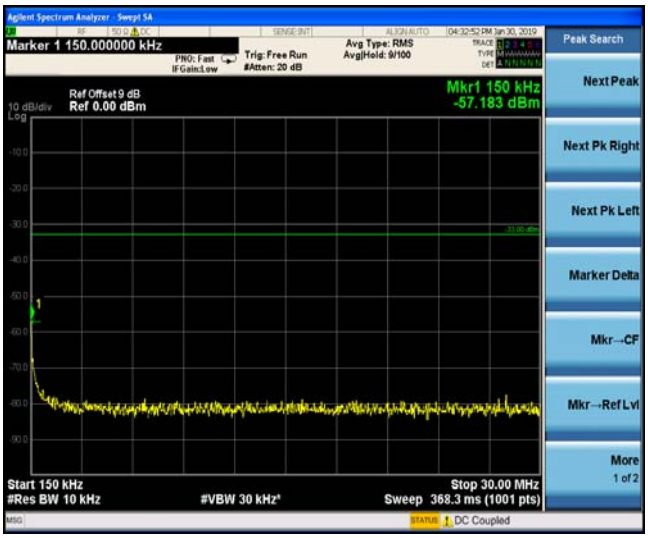
Band25_5MHz_QPSK_26365_1RB#0

Band25_5MHz_QPSK_26365_1RB#0

Band25_5MHz_QPSK_26665_1RB#0



Band25_5MHz_QPSK_26665_1RB#0



Band25_5MHz_QPSK_26665_1RB#0

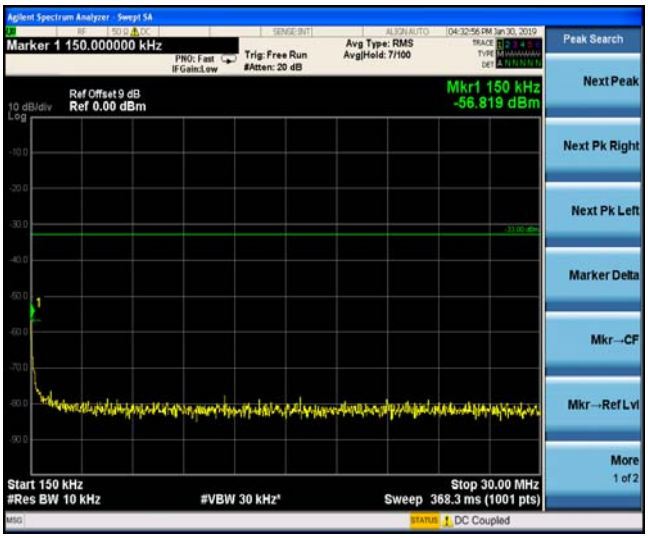
Band25_5MHz_QPSK_26665_1RB#0

Band25_5MHz_QPSK_26665_1RB#0

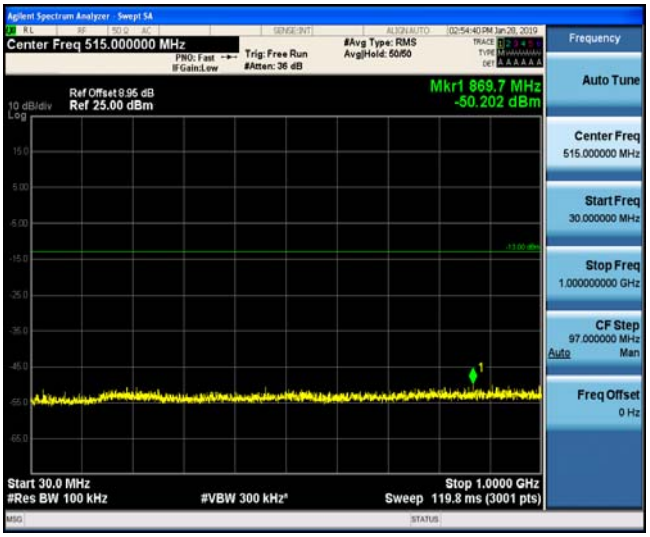
Band25_5MHz_QPSK_26665_1RB#0

Band25_5MHz_16QAM_26065_1RB#0

Band25_5MHz_16QAM_26065_1RB#0



Band25_5MHz_16QAM_26065_1RB#0

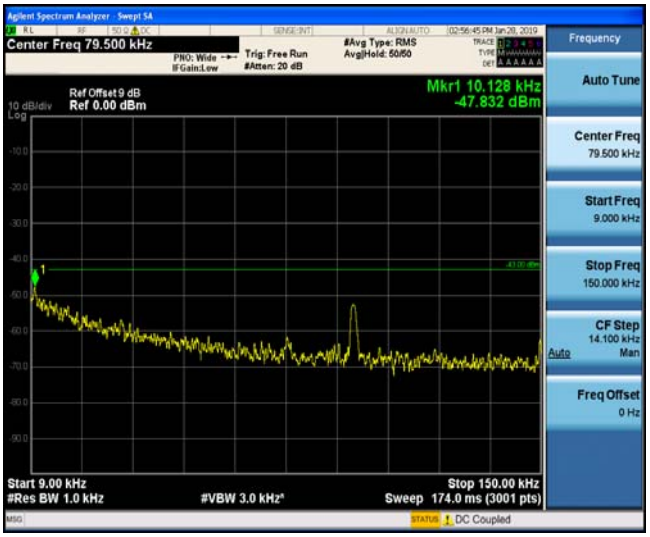


Band25_5MHz_16QAM_26065_1RB#0

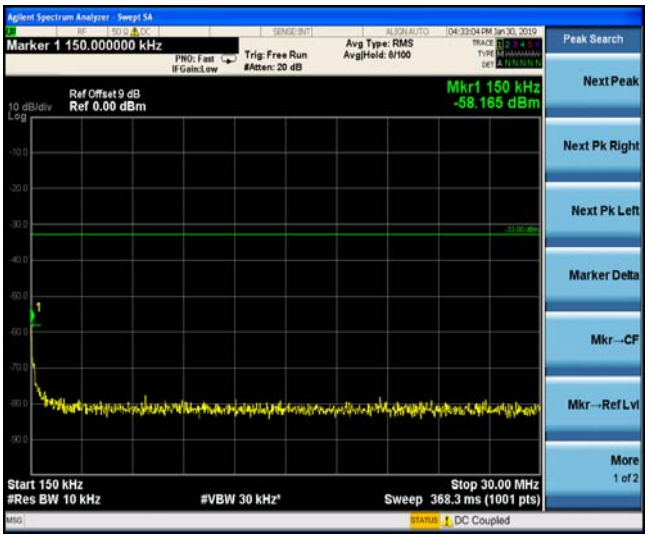
Band25_5MHz_16QAM_26065_1RB#0

Band25_5MHz_16QAM_26065_1RB#0

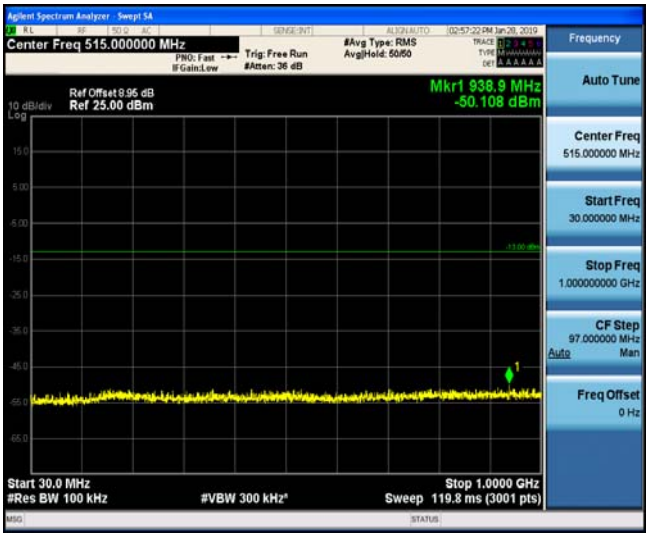
Band25_5MHz_16QAM_26365_1RB#0



Band25_5MHz_16QAM_26365_1RB#0



Band25_5MHz_16QAM_26365_1RB#0

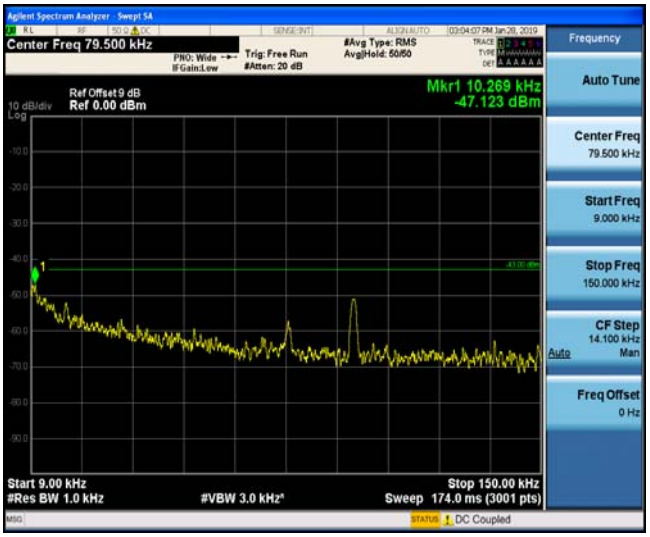


Band25_5MHz_16QAM_26365_1RB#0

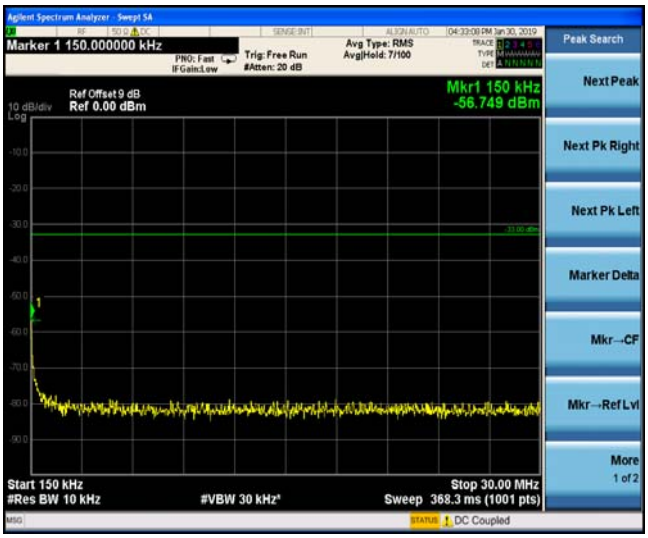
Band25_5MHz_16QAM_26365_1RB#0

Band25_5MHz_16QAM_26365_1RB#0

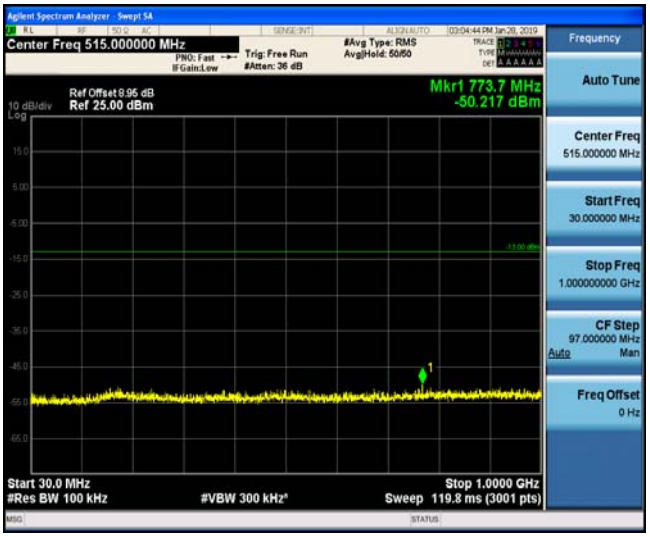
Band25_5MHz_16QAM_26665_1RB#0



Band25_5MHz_16QAM_26665_1RB#0



Band25_5MHz_16QAM_26665_1RB#0



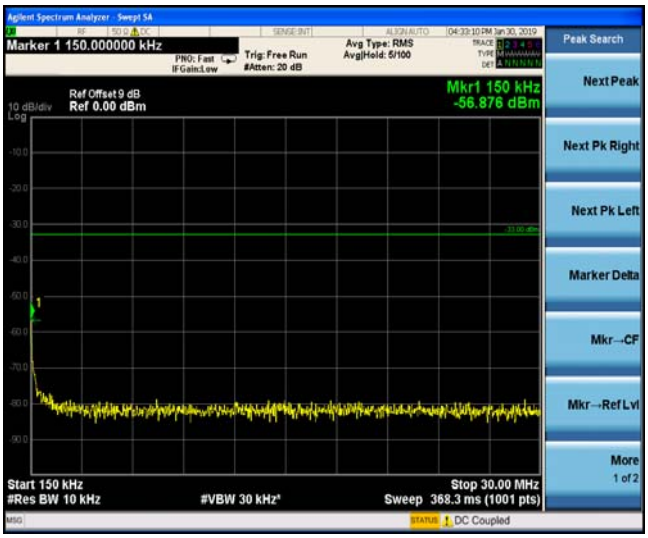
Band25_5MHz_16QAM_26665_1RB#0

Band25_5MHz_16QAM_26665_1RB#0

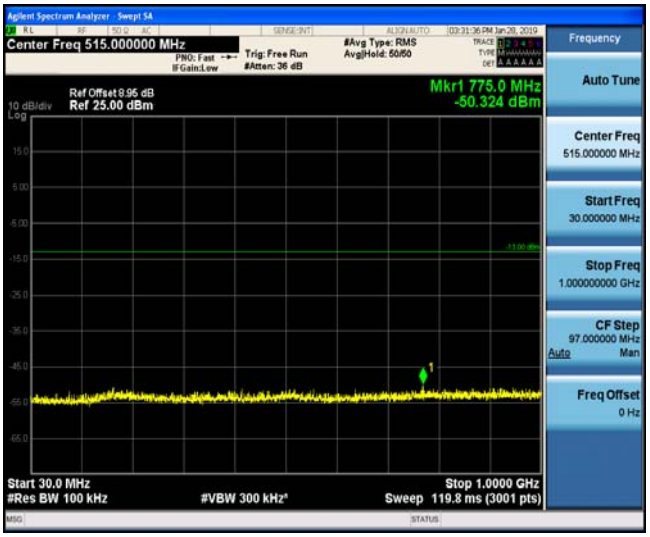
Band25_5MHz_16QAM_26665_1RB#0

Band25_10MHz_QPSK_26090_1RB#0

Band25_10MHz_QPSK_26090_1RB#0



Band25_10MHz_QPSK_26090_1RB#0



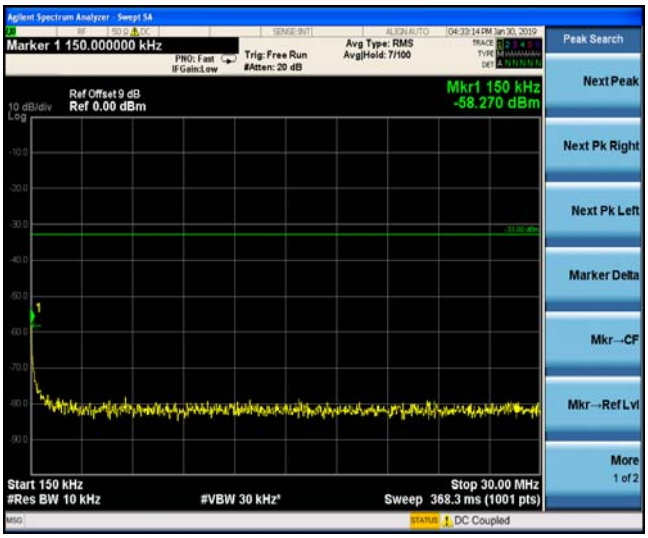
Band25_10MHz_QPSK_26090_1RB#0

Band25_10MHz_QPSK_26090_1RB#0

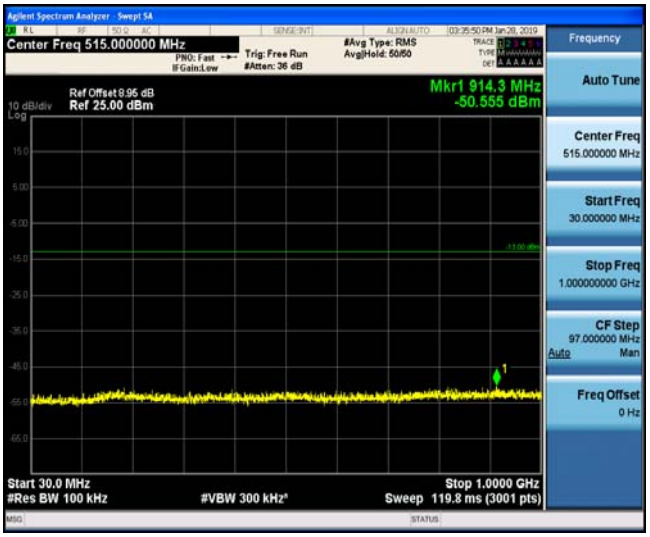
Band25_10MHz_QPSK_26090_1RB#0

Band25_10MHz_QPSK_26365_1RB#0

Band25_10MHz_QPSK_26365_1RB#0



Band25_10MHz_QPSK_26365_1RB#0

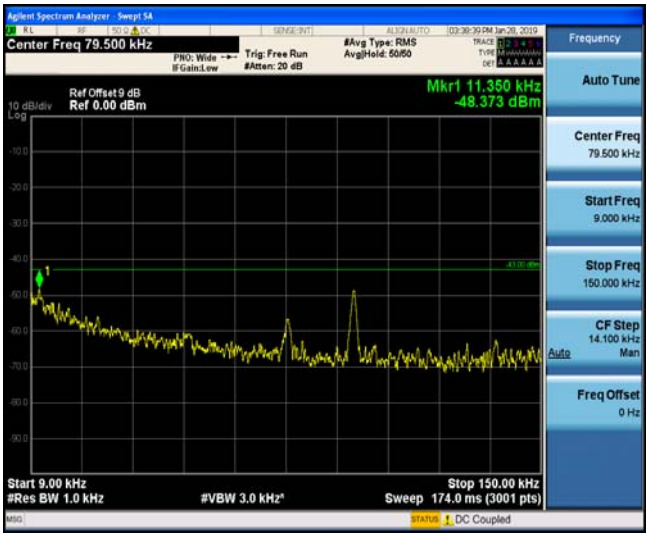


Band25_10MHz_QPSK_26365_1RB#0

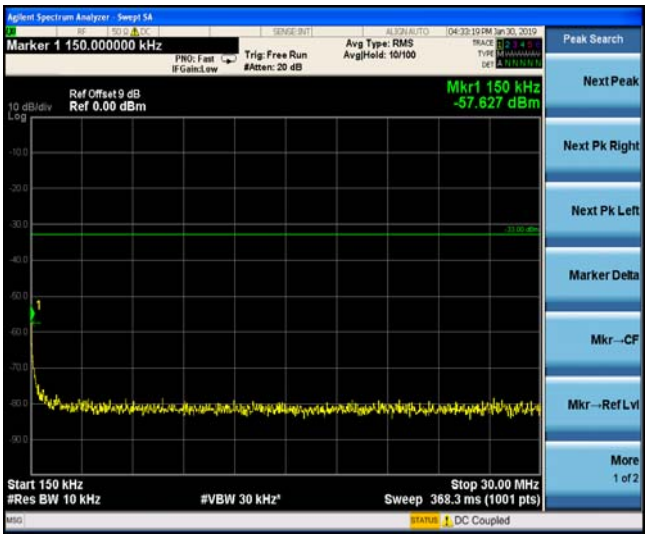
Band25_10MHz_QPSK_26365_1RB#0

Band25_10MHz_QPSK_26365_1RB#0

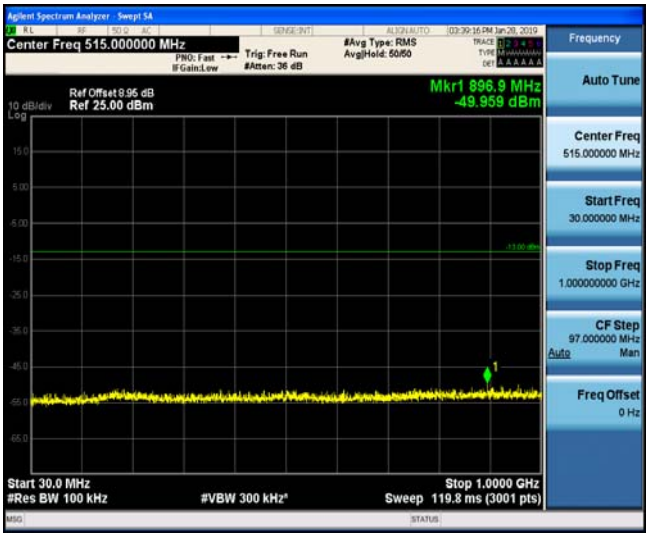
Band25_10MHz_QPSK_26640_1RB#0



Band25_10MHz_QPSK_26640_1RB#0



Band25_10MHz_QPSK_26640_1RB#0

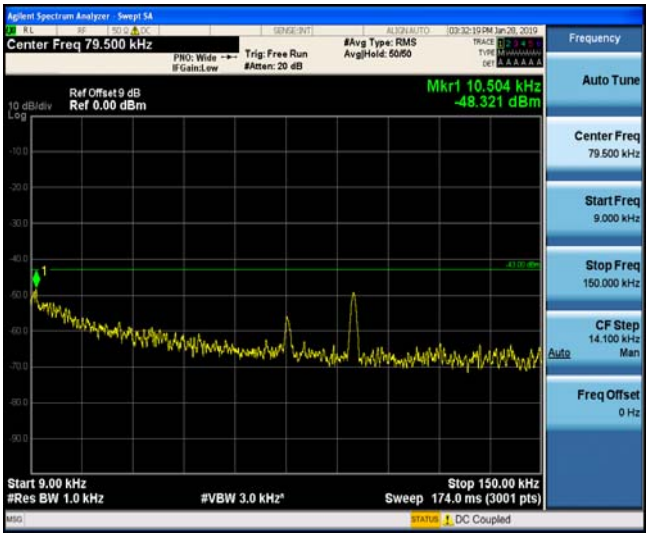


Band25_10MHz_QPSK_26640_1RB#0

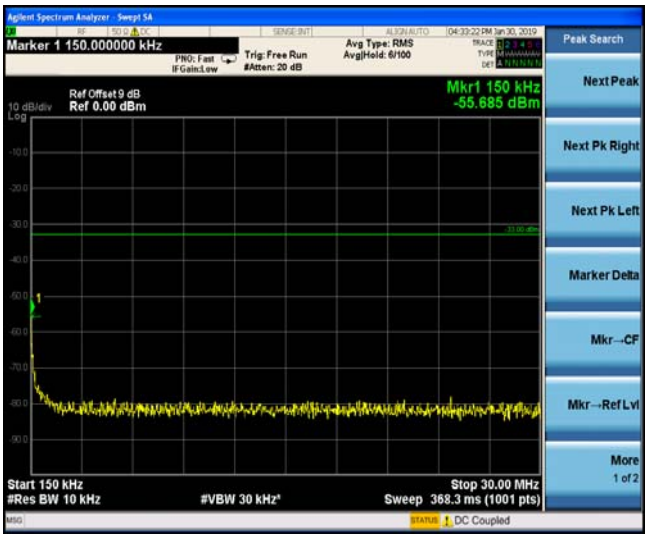
Band25_10MHz_QPSK_26640_1RB#0

Band25_10MHz_QPSK_26640_1RB#0

Band25_10MHz_16QAM_26090_1RB#0



Band25_10MHz_16QAM_26090_1RB#0



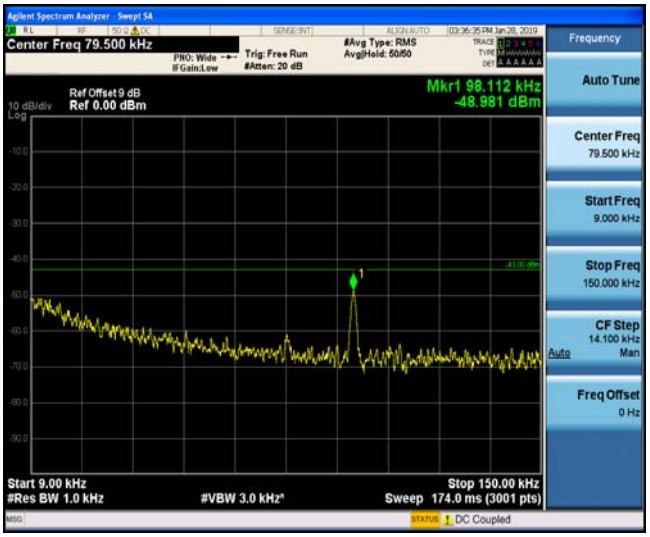
Band25_10MHz_16QAM_26090_1RB#0

Band25_10MHz_16QAM_26090_1RB#0

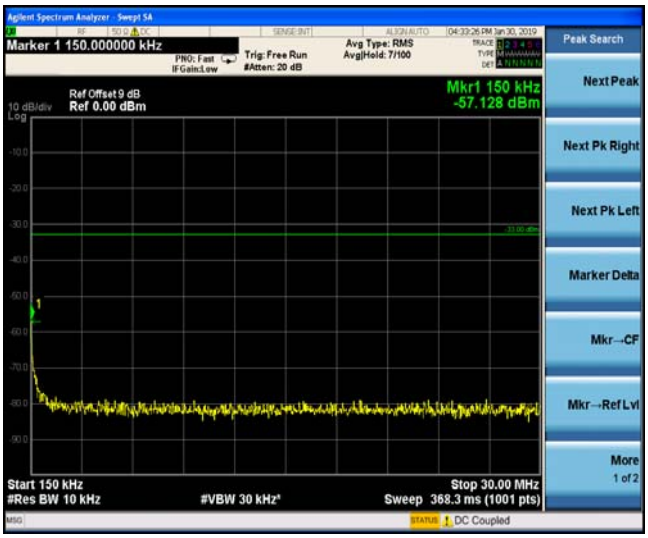
Band25_10MHz_16QAM_26090_1RB#0

Band25_10MHz_16QAM_26090_1RB#0

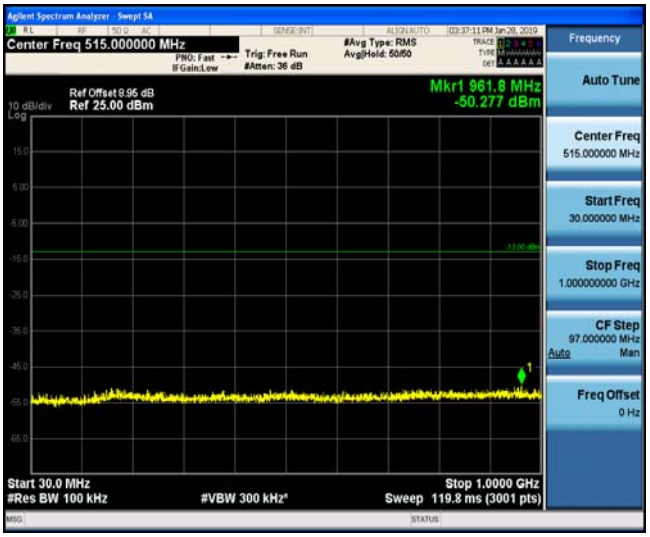
Band25_10MHz_16QAM_26365_1RB#0



Band25_10MHz_16QAM_26365_1RB#0



Band25_10MHz_16QAM_26365_1RB#0

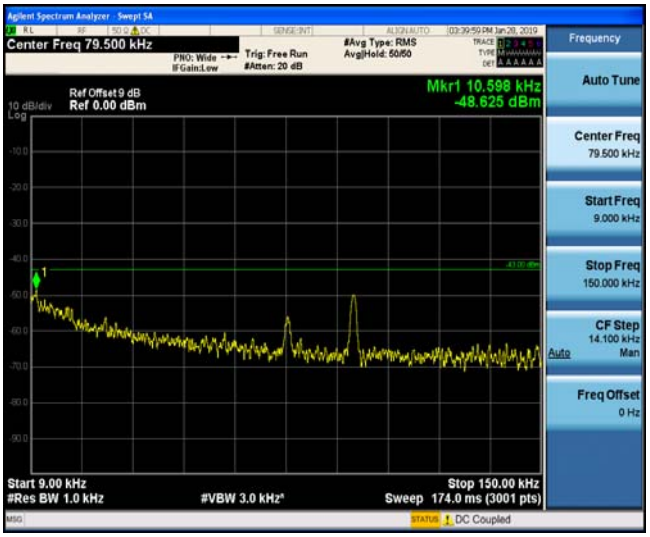


Band25_10MHz_16QAM_26365_1RB#0

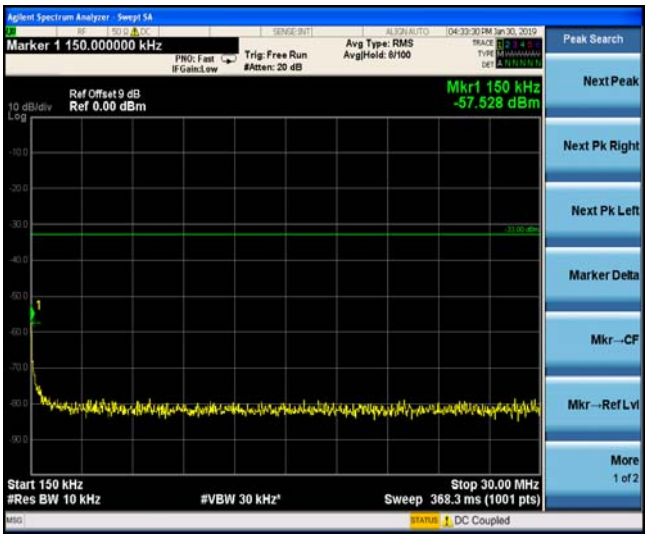
Band25_10MHz_16QAM_26365_1RB#0

Band25_10MHz_16QAM_26365_1RB#0

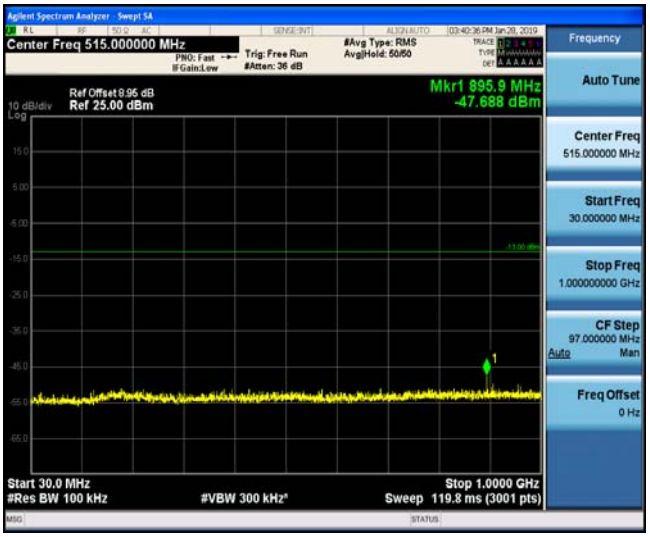
Band25_10MHz_16QAM_26640_1RB#0



Band25_10MHz_16QAM_26640_1RB#0



Band25_10MHz_16QAM_26640_1RB#0

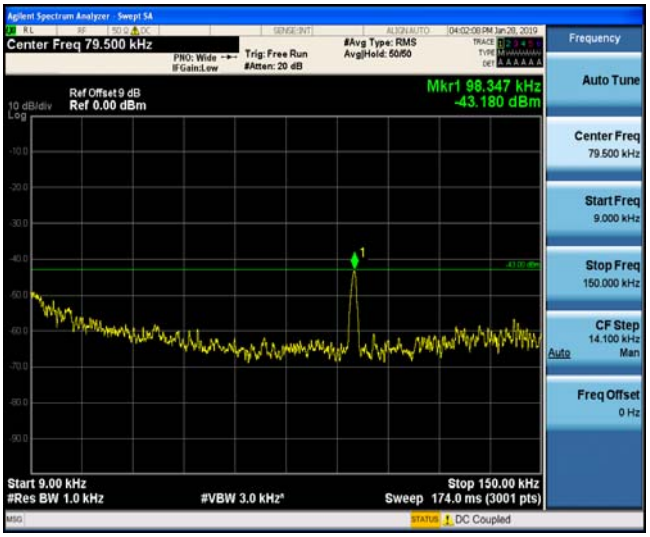


Band25_10MHz_16QAM_26640_1RB#0

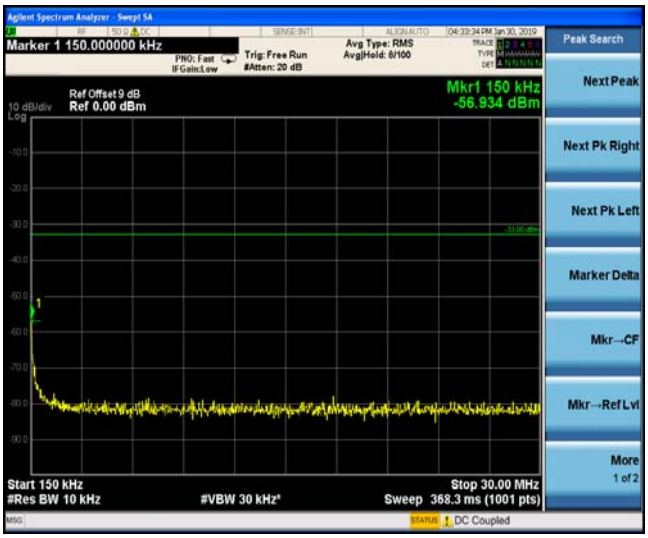
Band25_10MHz_16QAM_26640_1RB#0

Band25_10MHz_16QAM_26640_1RB#0

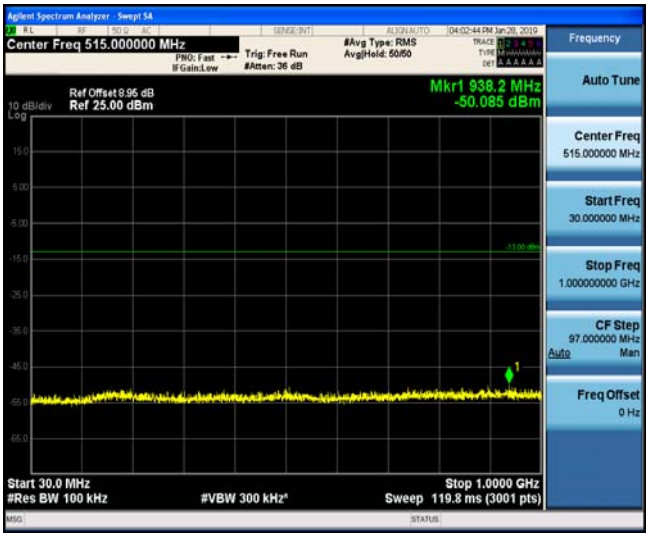
Band25_15MHz_QPSK_26115_1RB#0



Band25_15MHz_QPSK_26115_1RB#0



Band25_15MHz_QPSK_26115_1RB#0

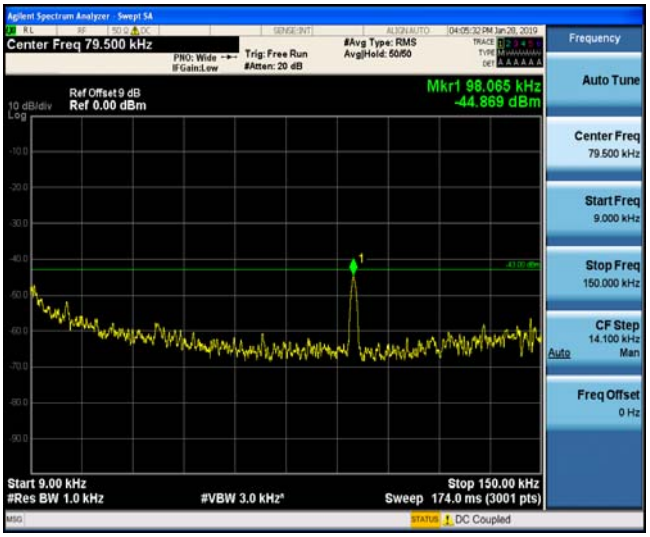


Band25_15MHz_QPSK_26115_1RB#0

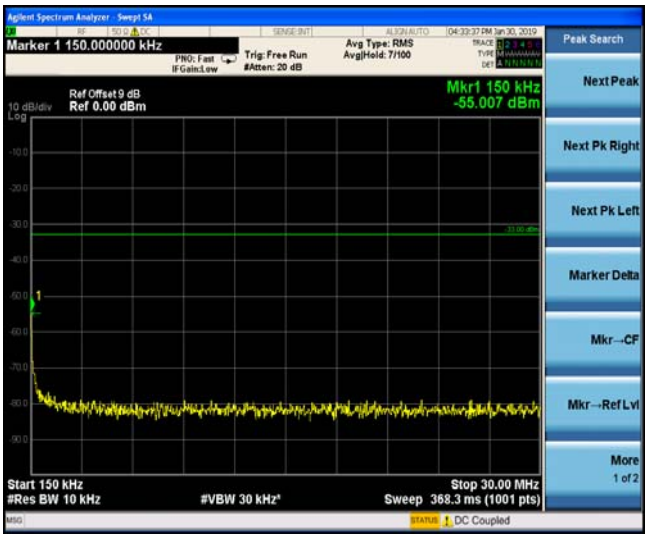
Band25_15MHz_QPSK_26115_1RB#0

Band25_15MHz_QPSK_26115_1RB#0

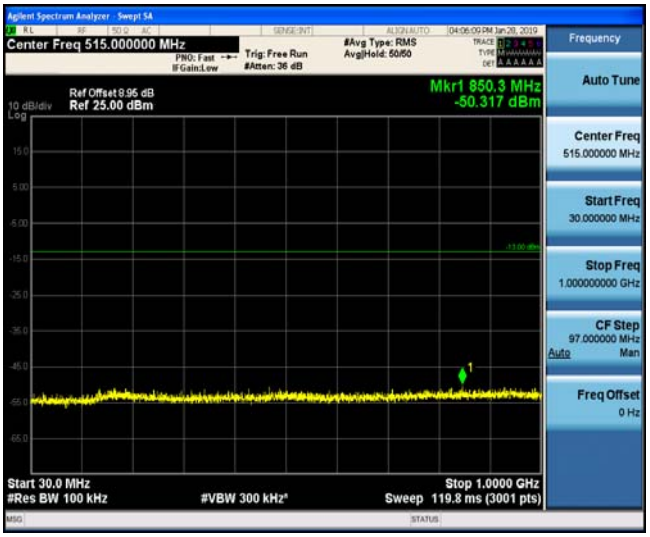
Band25_15MHz_QPSK_26365_1RB#0



Band25_15MHz_QPSK_26365_1RB#0



Band25_15MHz_QPSK_26365_1RB#0

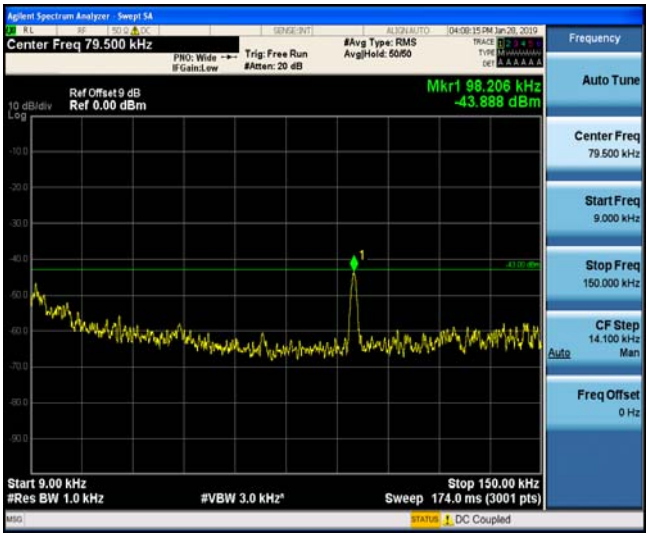


Band25_15MHz_QPSK_26365_1RB#0

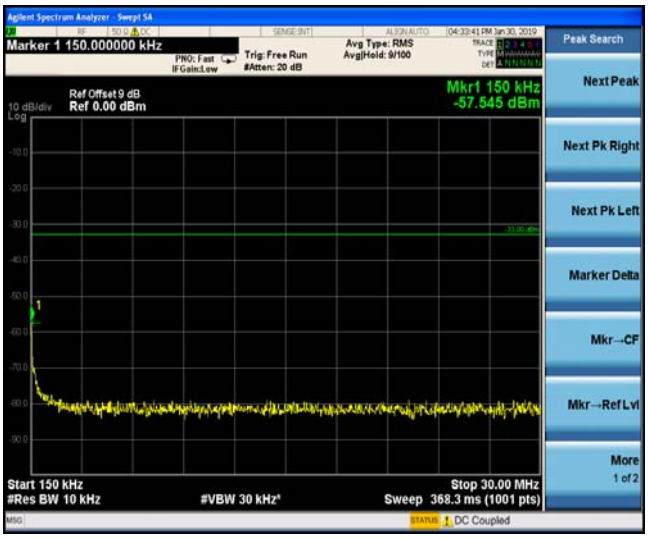
Band25_15MHz_QPSK_26365_1RB#0

Band25_15MHz_QPSK_26365_1RB#0

Band25_15MHz_QPSK_26615_1RB#0



Band25_15MHz_QPSK_26615_1RB#0



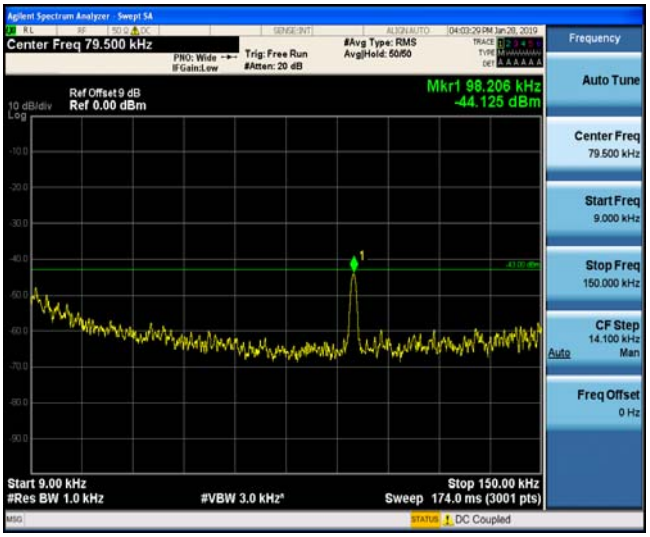
Band25_15MHz_QPSK_26615_1RB#0

Band25_15MHz_QPSK_26615_1RB#0

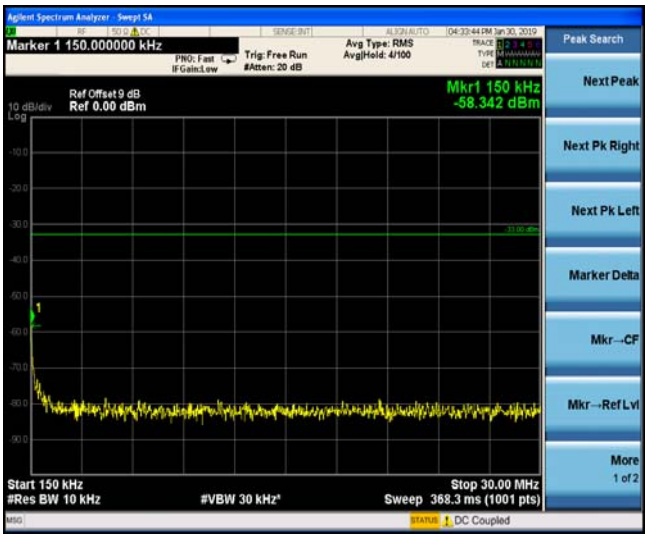
Band25_15MHz_QPSK_26615_1RB#0

Band25_15MHz_QPSK_26615_1RB#0

Band25_15MHz_16QAM_26115_1RB#0



Band25_15MHz_16QAM_26115_1RB#0



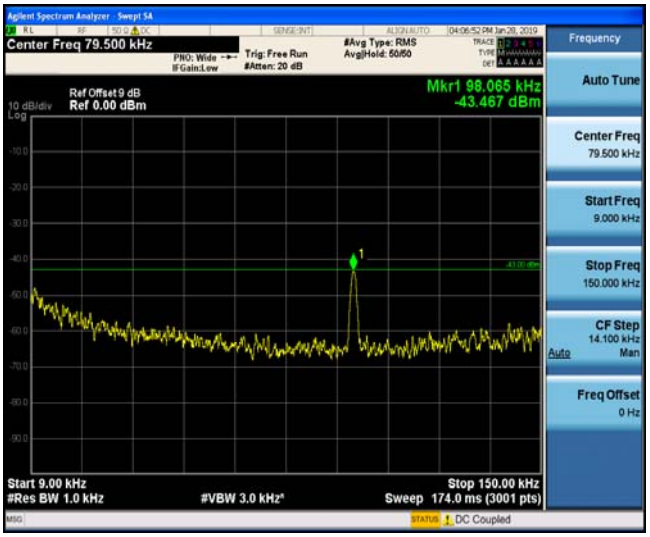
Band25_15MHz_16QAM_26115_1RB#0

Band25_15MHz_16QAM_26115_1RB#0

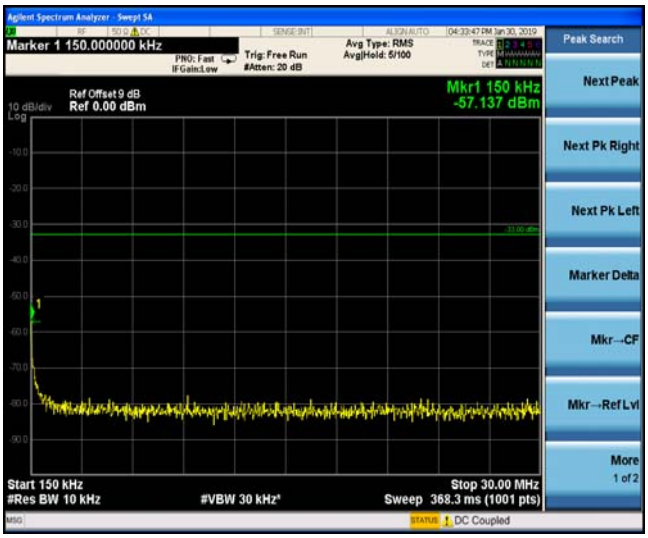
Band25_15MHz_16QAM_26115_1RB#0

Band25_15MHz_16QAM_26115_1RB#0

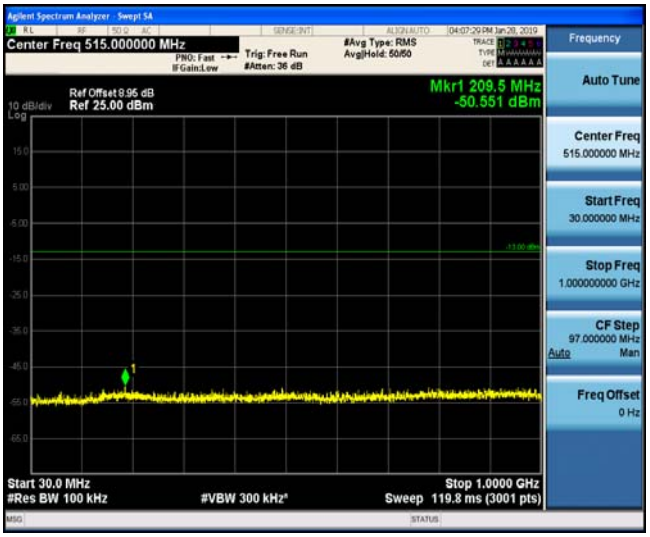
Band25_15MHz_16QAM_26365_1RB#0



Band25_15MHz_16QAM_26365_1RB#0



Band25_15MHz_16QAM_26365_1RB#0

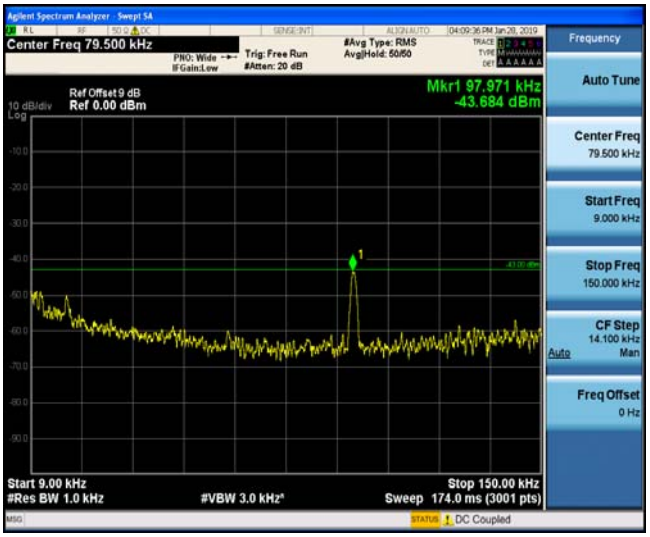


Band25_15MHz_16QAM_26365_1RB#0

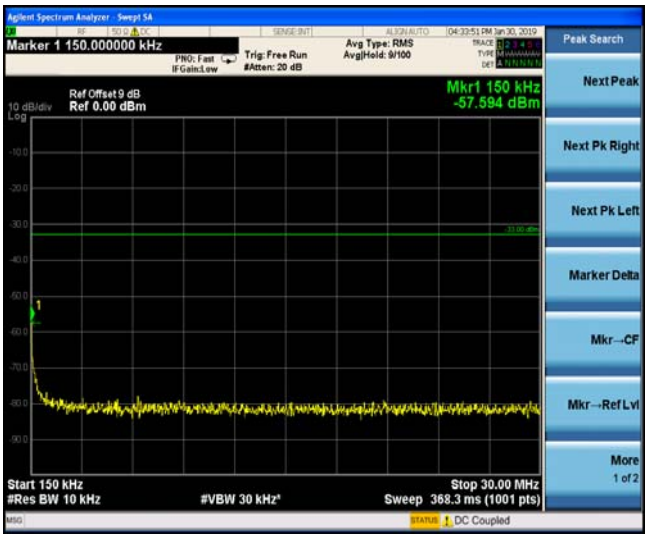
Band25_15MHz_16QAM_26365_1RB#0

Band25_15MHz_16QAM_26365_1RB#0

Band25_15MHz_16QAM_26615_1RB#0



Band25_15MHz_16QAM_26615_1RB#0



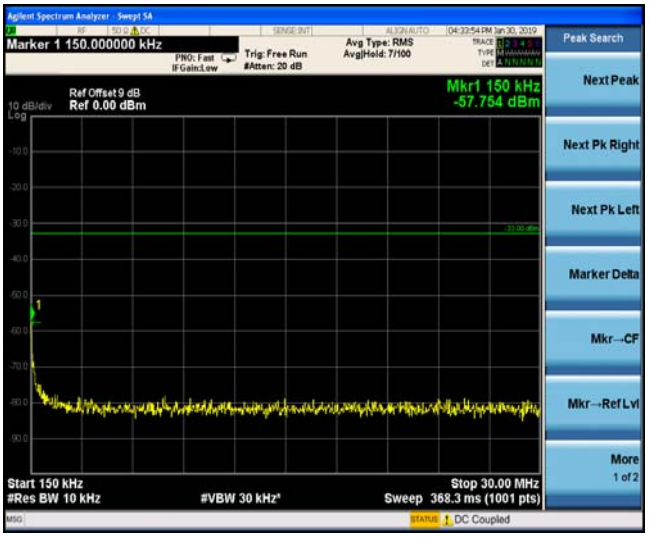
Band25_15MHz_16QAM_26615_1RB#0

Band25_15MHz_16QAM_26615_1RB#0

Band25_15MHz_16QAM_26615_1RB#0

Band25_15MHz_16QAM_26615_1RB#0

Band25_20MHz_QPSK_26140_1RB#0



Band25_20MHz_QPSK_26140_1RB#0

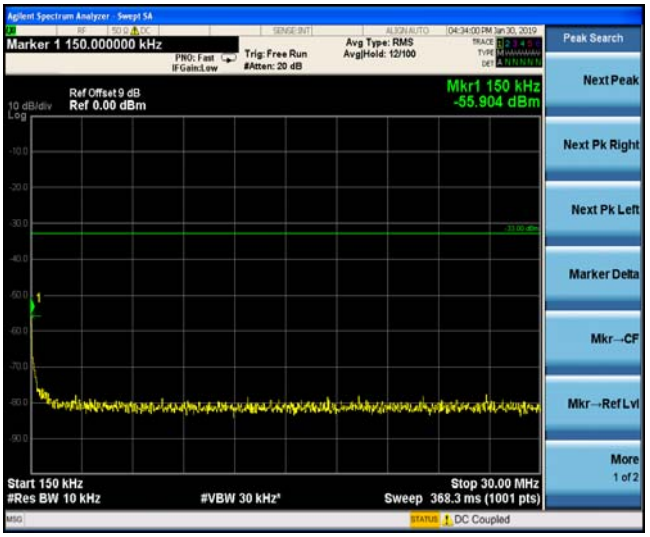
Band25_20MHz_QPSK_26140_1RB#0

Band25_20MHz_QPSK_26140_1RB#0

Band25_20MHz_QPSK_26140_1RB#0

Band25_20MHz_QPSK_26365_1RB#0

Band25_20MHz_QPSK_26365_1RB#0



Band25_20MHz_QPSK_26365_1RB#0

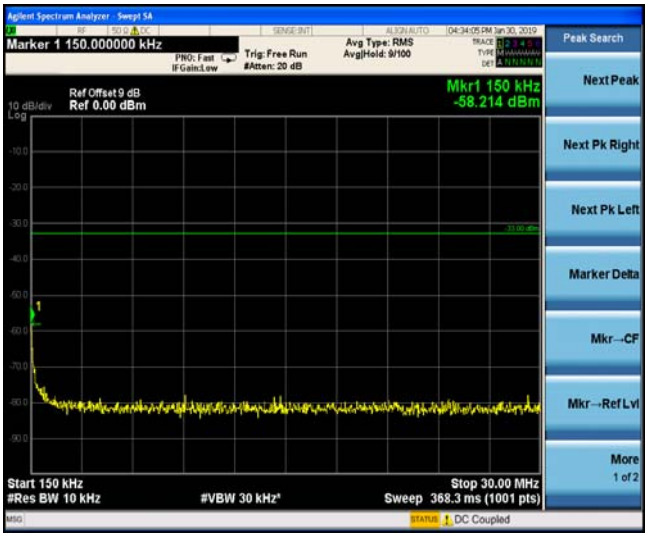
Band25_20MHz_QPSK_26365_1RB#0

Band25_20MHz_QPSK_26365_1RB#0

Band25_20MHz_QPSK_26365_1RB#0

Band25_20MHz_QPSK_26590_1RB#0

Band25_20MHz_QPSK_26590_1RB#0



Band25_20MHz_QPSK_26590_1RB#0

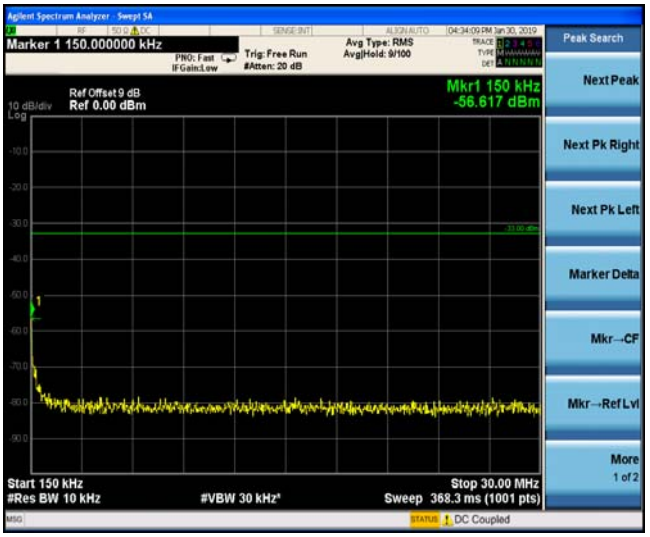
Band25_20MHz_QPSK_26590_1RB#0

Band25_20MHz_QPSK_26590_1RB#0

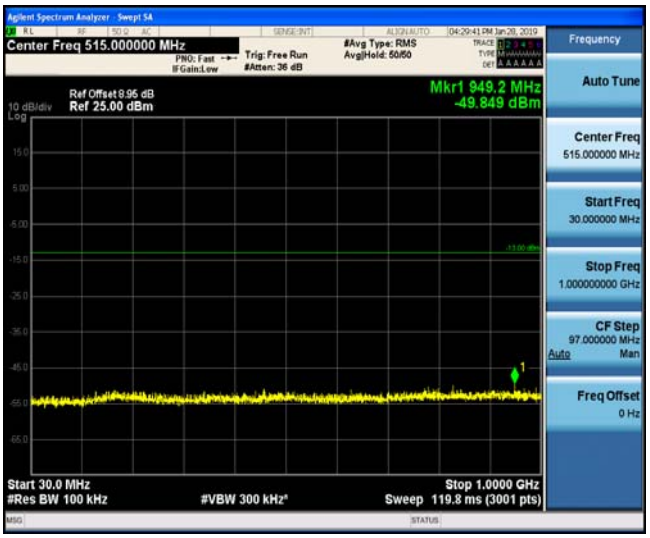
Band25_20MHz_QPSK_26590_1RB#0

Band25_20MHz_16QAM_26140_1RB#0

Band25_20MHz_16QAM_26140_1RB#0



Band25_20MHz_16QAM_26140_1RB#0



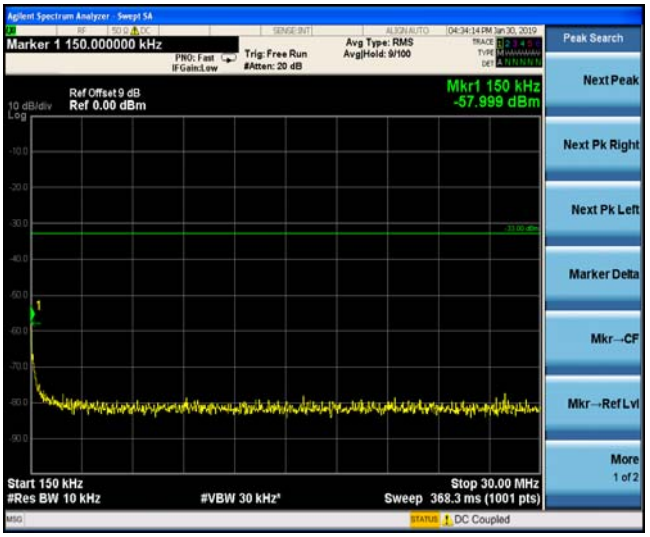
Band25_20MHz_16QAM_26140_1RB#0

Band25_20MHz_16QAM_26140_1RB#0

Band25_20MHz_16QAM_26140_1RB#0

Band25_20MHz_16QAM_26365_1RB#0

Band25_20MHz_16QAM_26365_1RB#0



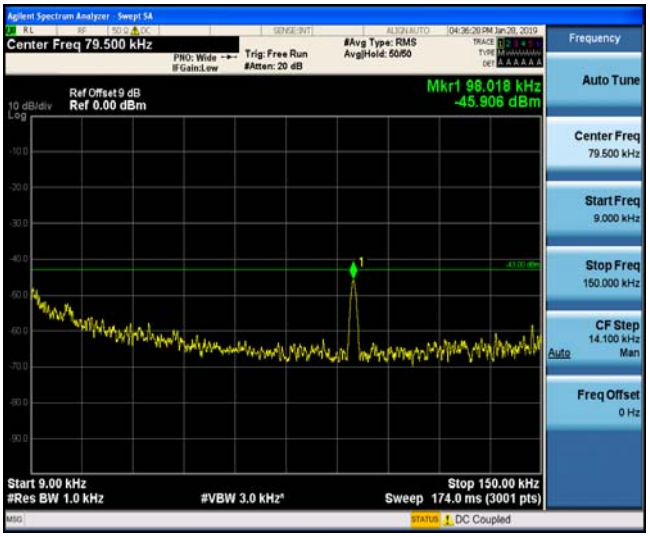
Band25_20MHz_16QAM_26365_1RB#0

Band25_20MHz_16QAM_26365_1RB#0

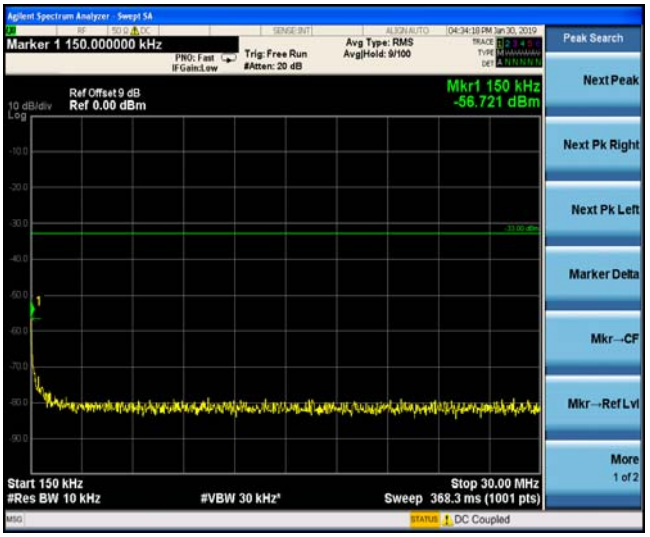
Band25_20MHz_16QAM_26365_1RB#0

Band25_20MHz_16QAM_26365_1RB#0

Band25_20MHz_16QAM_26590_1RB#0



Band25_20MHz_16QAM_26590_1RB#0



Band25_20MHz_16QAM_26590_1RB#0

Band25_20MHz_16QAM_26590_1RB#0

Band25_20MHz_16QAM_26590_1RB#0

Band25_20MHz_16QAM_26590_1RB#0

Appendix F: Frequency Stability

Test Result

Channel Bandwidth: 1.4 MHz

Channel Bandwidth: 1.4 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	-0.22	-0.000119	± 2.5	PASS
		VN	TN	0.55	0.000297	± 2.5	PASS
		VH	TN	-1.9	-0.001027	± 2.5	PASS
	MCH	VL	TN	4.08	0.002167	± 2.5	PASS
		VN	TN	-0.68	-0.000361	± 2.5	PASS
		VH	TN	4.42	0.002348	± 2.5	PASS
	HCH	VL	TN	4.41	0.002304	± 2.5	PASS
		VN	TN	1.03	0.000538	± 2.5	PASS
		VH	TN	1.98	0.001034	± 2.5	PASS
16QAM	LCH	VL	TN	-0.75	-0.000405	± 2.5	PASS
		VN	TN	-0.21	-0.000113	± 2.5	PASS
		VH	TN	-0.29	-0.000157	± 2.5	PASS
	MCH	VL	TN	3.69	0.001960	± 2.5	PASS
		VN	TN	-1.76	-0.000935	± 2.5	PASS
		VH	TN	0.2	0.000106	± 2.5	PASS
	HCH	VL	TN	4.86	0.002545	± 2.5	PASS
		VN	TN	4.13	0.002163	± 2.5	PASS
		VH	TN	-0.76	-0.000398	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-1.8	-0.000973	± 2.5	PASS
		VN	-20	0.4	0.000216	± 2.5	PASS
		VN	-10	-1.64	-0.000886	± 2.5	PASS
		VN	0	0.45	0.000243	± 2.5	PASS
		VN	10	-1.28	-0.000692	± 2.5	PASS
		VN	20	4.42	0.002388	± 2.5	PASS
		VN	30	0.84	0.000454	± 2.5	PASS
		VN	40	2.07	0.001118	± 2.5	PASS
		VN	50	-1.55	-0.000838	± 2.5	PASS
	MCH	VN	-30	-0.27	-0.000143	± 2.5	PASS
		VN	-20	3.43	0.001822	± 2.5	PASS

		VN	-10	-0.15	-0.000080	± 2.5	PASS
		VN	0	4.77	0.002534	± 2.5	PASS
		VN	10	2.39	0.001270	± 2.5	PASS
		VN	20	-1.97	-0.001046	± 2.5	PASS
		VN	30	2.86	0.001519	± 2.5	PASS
		VN	40	2.11	0.001121	± 2.5	PASS
		VN	50	1.33	0.000707	± 2.5	PASS
	HCH	VN	-30	1.36	0.000710	± 2.5	PASS
		VN	-20	3.98	0.002079	± 2.5	PASS
		VN	-10	0.85	0.000444	± 2.5	PASS
		VN	0	3.36	0.001755	± 2.5	PASS
		VN	10	3.34	0.001745	± 2.5	PASS
		VN	20	1.47	0.000768	± 2.5	PASS
		VN	30	1.62	0.000846	± 2.5	PASS
		VN	40	0.26	0.000136	± 2.5	PASS
		VN	50	3	0.001567	± 2.5	PASS
16QAM	LCH	VN	-30	1.14	0.000616	± 2.5	PASS
		VN	-20	-0.22	-0.000119	± 2.5	PASS
		VN	-10	2.29	0.001237	± 2.5	PASS
		VN	0	4.02	0.002172	± 2.5	PASS
		VN	10	1.97	0.001064	± 2.5	PASS
		VN	20	3.62	0.001956	± 2.5	PASS
		VN	30	0.81	0.000438	± 2.5	PASS
		VN	40	1.13	0.000611	± 2.5	PASS
		VN	50	0.39	0.000211	± 2.5	PASS
	MCH	VN	-30	-0.89	-0.000473	± 2.5	PASS
		VN	-20	1.48	0.000786	± 2.5	PASS
		VN	-10	-0.77	-0.000409	± 2.5	PASS
		VN	0	-1.1	-0.000584	± 2.5	PASS
		VN	10	0	0.000000	± 2.5	PASS
		VN	20	0.79	0.000420	± 2.5	PASS
		VN	30	0.14	0.000074	± 2.5	PASS
		VN	40	-1.58	-0.000839	± 2.5	PASS
		VN	50	3.34	0.001774	± 2.5	PASS
	HCH	VN	-30	2.18	0.001139	± 2.5	PASS
		VN	-20	-1.28	-0.000669	± 2.5	PASS
		VN	-10	3.92	0.002048	± 2.5	PASS
		VN	0	2.28	0.001191	± 2.5	PASS
		VN	10	4.21	0.002199	± 2.5	PASS
		VN	20	3.1	0.001619	± 2.5	PASS
		VN	30	5	0.002612	± 2.5	PASS

		VN	40	3.41	0.001781	± 2.5	PASS
		VN	50	2.1	0.001097	± 2.5	PASS

Channel Bandwidth: 3 MHz

Channel Bandwidth: 3 MHz+							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	2.28	0.001231	± 2.5	PASS
		VN	TN	3.34	0.001804	± 2.5	PASS
		VH	TN	1.03	0.000556	± 2.5	PASS
	MCH	VL	TN	0.22	0.000117	± 2.5	PASS
		VN	TN	4.94	0.002624	± 2.5	PASS
		VH	TN	2.41	0.001280	± 2.5	PASS
	HCH	VL	TN	-0.51	-0.000267	± 2.5	PASS
		VN	TN	-1	-0.000523	± 2.5	PASS
		VH	TN	3.27	0.001709	± 2.5	PASS
16QAM	LCH	VL	TN	4.36	0.002355	± 2.5	PASS
		VN	TN	-1.24	-0.000670	± 2.5	PASS
		VH	TN	-1.18	-0.000637	± 2.5	PASS
	MCH	VL	TN	0.83	0.000441	± 2.5	PASS
		VN	TN	-1.25	-0.000664	± 2.5	PASS
		VH	TN	3.31	0.001758	± 2.5	PASS
	HCH	VL	TN	-1.01	-0.000528	± 2.5	PASS
		VN	TN	-1.43	-0.000747	± 2.5	PASS
		VH	TN	4.02	0.002101	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-0.09	-0.000049	± 2.5	PASS
		VN	-20	2	0.001080	± 2.5	PASS
		VN	-10	0.63	0.000340	± 2.5	PASS
		VN	0	1.04	0.000562	± 2.5	PASS
		VN	10	3.86	0.002085	± 2.5	PASS
		VN	20	2.15	0.001161	± 2.5	PASS
		VN	30	-1.97	-0.001064	± 2.5	PASS
		VN	40	4.36	0.002355	± 2.5	PASS
		VN	50	4.07	0.002198	± 2.5	PASS
	MCH	VN	-30	4.36	0.002316	± 2.5	PASS
		VN	-20	-0.15	-0.000080	± 2.5	PASS
		VN	-10	-0.83	-0.000441	± 2.5	PASS

		VN	0	3.81	0.002024	± 2.5	PASS
		VN	10	3.55	0.001886	± 2.5	PASS
		VN	20	2.06	0.001094	± 2.5	PASS
		VN	30	0.25	0.000133	± 2.5	PASS
		VN	40	3.03	0.001610	± 2.5	PASS
		VN	50	2.8	0.001487	± 2.5	PASS
	HCH	VN	-30	1.04	0.000544	± 2.5	PASS
		VN	-20	-1.9	-0.000993	± 2.5	PASS
		VN	-10	2.21	0.001155	± 2.5	PASS
		VN	0	1.57	0.000820	± 2.5	PASS
		VN	10	4.04	0.002111	± 2.5	PASS
		VN	20	-0.61	-0.000319	± 2.5	PASS
		VN	30	-0.17	-0.000089	± 2.5	PASS
		VN	40	2.77	0.001448	± 2.5	PASS
		VN	50	1.6	0.000836	± 2.5	PASS
16QAM	LCH	VN	-30	-0.39	-0.000211	± 2.5	PASS
		VN	-20	1.24	0.000670	± 2.5	PASS
		VN	-10	1.4	0.000756	± 2.5	PASS
		VN	0	0.39	0.000211	± 2.5	PASS
		VN	10	-0.07	-0.000038	± 2.5	PASS
		VN	20	3.77	0.002036	± 2.5	PASS
		VN	30	4.86	0.002625	± 2.5	PASS
		VN	40	4.13	0.002231	± 2.5	PASS
		VN	50	2.6	0.001404	± 2.5	PASS
	MCH	VN	-30	1.27	0.000675	± 2.5	PASS
		VN	-20	4.71	0.002502	± 2.5	PASS
		VN	-10	2.62	0.001392	± 2.5	PASS
		VN	0	1.13	0.000600	± 2.5	PASS
		VN	10	3.68	0.001955	± 2.5	PASS
		VN	20	1.47	0.000781	± 2.5	PASS
		VN	30	2.63	0.001397	± 2.5	PASS
		VN	40	0.36	0.000191	± 2.5	PASS
		VN	50	2.2	0.001169	± 2.5	PASS
	HCH	VN	-30	-0.1	-0.000052	± 2.5	PASS
		VN	-20	-1.22	-0.000638	± 2.5	PASS
		VN	-10	3.4	0.001777	± 2.5	PASS
		VN	0	3.61	0.001887	± 2.5	PASS
		VN	10	-1.44	-0.000753	± 2.5	PASS
		VN	20	0.36	0.000188	± 2.5	PASS
		VN	30	0.35	0.000183	± 2.5	PASS
		VN	40	-1.55	-0.000810	± 2.5	PASS

		VN	50	-1.61	-0.000841	± 2.5	PASS

Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	2.25	0.001215	± 2.5	PASS
		VN	TN	4.28	0.002310	± 2.5	PASS
		VH	TN	4.6	0.002483	± 2.5	PASS
	MCH	VL	TN	3.72	0.001976	± 2.5	PASS
		VN	TN	-0.35	-0.000186	± 2.5	PASS
		VH	TN	-0.63	-0.000335	± 2.5	PASS
	HCH	VL	TN	3.72	0.001945	± 2.5	PASS
		VN	TN	0.03	0.000016	± 2.5	PASS
		VH	TN	0.05	0.000026	± 2.5	PASS
16QAM	LCH	VL	TN	-0.46	-0.000248	± 2.5	PASS
		VN	TN	-1	-0.000540	± 2.5	PASS
		VH	TN	-0.76	-0.000410	± 2.5	PASS
	MCH	VL	TN	2.9	0.001541	± 2.5	PASS
		VN	TN	3.56	0.001891	± 2.5	PASS
		VH	TN	4.73	0.002513	± 2.5	PASS
	HCH	VL	TN	1.74	0.000910	± 2.5	PASS
		VN	TN	0.76	0.000397	± 2.5	PASS
		VH	TN	3.81	0.001992	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	0.19	0.000103	± 2.5	PASS
		VN	-20	1.77	0.000955	± 2.5	PASS
		VN	-10	3.54	0.001911	± 2.5	PASS
		VN	0	4.75	0.002564	± 2.5	PASS
		VN	10	2.07	0.001117	± 2.5	PASS
		VN	20	2.26	0.001220	± 2.5	PASS
		VN	30	4.23	0.002283	± 2.5	PASS
		VN	40	0.34	0.000184	± 2.5	PASS
		VN	50	4.14	0.002235	± 2.5	PASS
	MCH	VN	-30	-0.83	-0.000441	± 2.5	PASS
		VN	-20	1.26	0.000669	± 2.5	PASS
		VN	-10	3.58	0.001902	± 2.5	PASS
		VN	0	-0.33	-0.000175	± 2.5	PASS

		VN	10	-0.61	-0.000324	± 2.5	PASS
		VN	20	3.68	0.001955	± 2.5	PASS
		VN	30	-1.68	-0.000892	± 2.5	PASS
		VN	40	1.32	0.000701	± 2.5	PASS
		VN	50	-0.62	-0.000329	± 2.5	PASS
	HCH	VN	-30	-0.81	-0.000424	± 2.5	PASS
		VN	-20	4.16	0.002175	± 2.5	PASS
		VN	-10	-0.42	-0.000220	± 2.5	PASS
		VN	0	2.76	0.001443	± 2.5	PASS
		VN	10	4.76	0.002489	± 2.5	PASS
		VN	20	4.97	0.002599	± 2.5	PASS
		VN	30	1.16	0.000607	± 2.5	PASS
		VN	40	4.93	0.002578	± 2.5	PASS
		VN	50	1.8	0.000941	± 2.5	PASS
16QAM	LCH	VN	-30	4.69	0.002532	± 2.5	PASS
		VN	-20	3.68	0.001987	± 2.5	PASS
		VN	-10	0.79	0.000426	± 2.5	PASS
		VN	0	3.57	0.001927	± 2.5	PASS
		VN	10	1.57	0.000848	± 2.5	PASS
		VN	20	3.92	0.002116	± 2.5	PASS
		VN	30	2.85	0.001538	± 2.5	PASS
		VN	40	0.16	0.000086	± 2.5	PASS
		VN	50	0.38	0.000205	± 2.5	PASS
	MCH	VN	-30	-0.52	-0.000276	± 2.5	PASS
		VN	-20	0.97	0.000515	± 2.5	PASS
		VN	-10	2.41	0.001280	± 2.5	PASS
		VN	0	3.73	0.001981	± 2.5	PASS
		VN	10	-0.57	-0.000303	± 2.5	PASS
		VN	20	3.25	0.001726	± 2.5	PASS
		VN	30	2.29	0.001216	± 2.5	PASS
		VN	40	3.36	0.001785	± 2.5	PASS
		VN	50	0.28	0.000149	± 2.5	PASS
	HCH	VN	-30	0.8	0.000418	± 2.5	PASS
		VN	-20	3.21	0.001678	± 2.5	PASS
		VN	-10	2.54	0.001328	± 2.5	PASS
		VN	0	0.28	0.000146	± 2.5	PASS
		VN	10	-1.82	-0.000952	± 2.5	PASS
		VN	20	3.96	0.002071	± 2.5	PASS
		VN	30	3.22	0.001684	± 2.5	PASS
		VN	40	4.85	0.002536	± 2.5	PASS
		VN	50	2.46	0.001286	± 2.5	PASS

Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	0.07	0.000038	± 2.5	PASS
		VN	TN	1.72	0.000927	± 2.5	PASS
		VH	TN	0.68	0.000367	± 2.5	PASS
	MCH	VL	TN	0.97	0.000515	± 2.5	PASS
		VN	TN	4.72	0.002507	± 2.5	PASS
		VH	TN	-0.4	-0.000212	± 2.5	PASS
	HCH	VL	TN	-0.4	-0.000209	± 2.5	PASS
		VN	TN	2.38	0.001246	± 2.5	PASS
		VH	TN	2.37	0.001241	± 2.5	PASS
16QAM	LCH	VL	TN	-0.71	-0.000383	± 2.5	PASS
		VN	TN	-1.33	-0.000717	± 2.5	PASS
		VH	TN	3.41	0.001838	± 2.5	PASS
	MCH	VL	TN	-1.67	-0.000887	± 2.5	PASS
		VN	TN	0.55	0.000292	± 2.5	PASS
		VH	TN	0.22	0.000117	± 2.5	PASS
	HCH	VL	TN	1.66	0.000869	± 2.5	PASS
		VN	TN	4.5	0.002356	± 2.5	PASS
		VH	TN	0.77	0.000403	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
16QAM	LCH	VN	-30	-0.58	-0.000313	± 2.5	PASS
		VN	-20	3.45	0.001860	± 2.5	PASS
		VN	-10	-0.65	-0.000350	± 2.5	PASS
		VN	0	0.77	0.000415	± 2.5	PASS
		VN	10	0.5	0.000270	± 2.5	PASS
		VN	20	-0.33	-0.000178	± 2.5	PASS
		VN	30	2.97	0.001601	± 2.5	PASS
		VN	40	-1.59	-0.000857	± 2.5	PASS
		VN	50	0.21	0.000113	± 2.5	PASS
	MCH	VN	-30	-0.11	-0.000058	± 2.5	PASS
		VN	-20	2.42	0.001286	± 2.5	PASS
		VN	-10	2.8	0.001487	± 2.5	PASS
		VN	0	-1.96	-0.001041	± 2.5	PASS
		VN	10	1.64	0.000871	± 2.5	PASS
		VN	20	0.91	0.000483	± 2.5	PASS

		VN	30	-1.87	-0.000993	± 2.5	PASS
		VN	40	4.74	0.002518	± 2.5	PASS
		VN	50	3.28	0.001742	± 2.5	PASS
	HCH	VN	-30	3.42	0.001791	± 2.5	PASS
		VN	-20	2.48	0.001298	± 2.5	PASS
		VN	-10	-0.7	-0.000366	± 2.5	PASS
		VN	0	0.89	0.000466	± 2.5	PASS
		VN	10	1.26	0.000660	± 2.5	PASS
		VN	20	-1.49	-0.000780	± 2.5	PASS
		VN	30	0.75	0.000393	± 2.5	PASS
		VN	40	-0.92	-0.000482	± 2.5	PASS
		VN	50	2.46	0.001288	± 2.5	PASS
QPSK	LCH	VN	-30	0.21	0.000113	± 2.5	PASS
		VN	-20	1.88	0.001013	± 2.5	PASS
		VN	-10	1.74	0.000938	± 2.5	PASS
		VN	0	1.4	0.000755	± 2.5	PASS
		VN	10	-0.84	-0.000453	± 2.5	PASS
		VN	20	1.8	0.000970	± 2.5	PASS
		VN	30	3.02	0.001628	± 2.5	PASS
		VN	40	1.29	0.000695	± 2.5	PASS
		VN	50	1.24	0.000668	± 2.5	PASS
	MCH	VN	-30	-0.81	-0.000430	± 2.5	PASS
		VN	-20	-1.15	-0.000611	± 2.5	PASS
		VN	-10	-0.79	-0.000420	± 2.5	PASS
		VN	0	-0.06	-0.000032	± 2.5	PASS
		VN	10	2.29	0.001216	± 2.5	PASS
		VN	20	3.44	0.001827	± 2.5	PASS
		VN	30	2.28	0.001211	± 2.5	PASS
		VN	40	3.92	0.002082	± 2.5	PASS
		VN	50	0.9	0.000478	± 2.5	PASS
	HCH	VN	-30	-0.28	-0.000147	± 2.5	PASS
		VN	-20	4.19	0.002194	± 2.5	PASS
		VN	-10	1.86	0.000974	± 2.5	PASS
		VN	0	-0.05	-0.000026	± 2.5	PASS
		VN	10	-1.87	-0.000979	± 2.5	PASS
		VN	20	3.3	0.001728	± 2.5	PASS
		VN	30	2.82	0.001476	± 2.5	PASS
		VN	40	4.56	0.002387	± 2.5	PASS
		VN	50	-1.47	-0.000770	± 2.5	PASS

Channel Bandwidth: 15 MHz

Channel Bandwidth: 15 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	-0.36	-0.000194	± 2.5	PASS
		VN	TN	0.34	0.000183	± 2.5	PASS
		VH	TN	3.15	0.001696	± 2.5	PASS
	MCH	VL	TN	-0.94	-0.000499	± 2.5	PASS
		VN	TN	-0.69	-0.000367	± 2.5	PASS
		VH	TN	3	0.001594	± 2.5	PASS
	HCH	VL	TN	-1.53	-0.000802	± 2.5	PASS
		VN	TN	-0.12	-0.000063	± 2.5	PASS
		VH	TN	-0.75	-0.000393	± 2.5	PASS
16QAM	LCH	VL	TN	-1.86	-0.001001	± 2.5	PASS
		VN	TN	-0.81	-0.000436	± 2.5	PASS
		VH	TN	0.56	0.000301	± 2.5	PASS
	MCH	VL	TN	0.73	0.000388	± 2.5	PASS
		VN	TN	0.99	0.000526	± 2.5	PASS
		VH	TN	2.1	0.001116	± 2.5	PASS
	HCH	VL	TN	4.54	0.002380	± 2.5	PASS
		VN	TN	-1.16	-0.000608	± 2.5	PASS
		VH	TN	2.6	0.001363	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	2.93	0.001577	± 2.5	PASS
		VN	-20	4.56	0.002455	± 2.5	PASS
		VN	-10	-1.43	-0.000770	± 2.5	PASS
		VN	0	-0.11	-0.000059	± 2.5	PASS
		VN	10	2.84	0.001529	± 2.5	PASS
		VN	20	4.13	0.002223	± 2.5	PASS
		VN	30	3.27	0.001760	± 2.5	PASS
		VN	40	-0.94	-0.000506	± 2.5	PASS
		VN	50	-0.27	-0.000145	± 2.5	PASS
	MCH	VN	-30	-1.45	-0.000770	± 2.5	PASS
		VN	-20	0.11	0.000058	± 2.5	PASS
		VN	-10	-1.53	-0.000813	± 2.5	PASS
		VN	0	-0.94	-0.000499	± 2.5	PASS
		VN	10	-0.71	-0.000377	± 2.5	PASS
		VN	20	0.31	0.000165	± 2.5	PASS

		VN	30	0.22	0.000117	± 2.5	PASS
		VN	40	1.57	0.000834	± 2.5	PASS
		VN	50	3.78	0.002008	± 2.5	PASS
	HCH	VN	-30	4.67	0.002448	± 2.5	PASS
		VN	-20	1.94	0.001017	± 2.5	PASS
		VN	-10	-1.34	-0.000702	± 2.5	PASS
		VN	0	4.88	0.002558	± 2.5	PASS
		VN	10	3.25	0.001704	± 2.5	PASS
		VN	20	3.22	0.001688	± 2.5	PASS
		VN	30	-1.53	-0.000802	± 2.5	PASS
		VN	40	0.05	0.000026	± 2.5	PASS
		VN	50	3.76	0.001971	± 2.5	PASS
16QAM	LCH	VN	-30	-0.1	-0.000054	± 2.5	PASS
		VN	-20	-1.79	-0.000964	± 2.5	PASS
		VN	-10	-1.61	-0.000867	± 2.5	PASS
		VN	0	0.53	0.000285	± 2.5	PASS
		VN	10	-1.5	-0.000808	± 2.5	PASS
		VN	20	2.36	0.001271	± 2.5	PASS
		VN	30	1.76	0.000948	± 2.5	PASS
		VN	40	1.21	0.000651	± 2.5	PASS
		VN	50	-0.82	-0.000441	± 2.5	PASS
	MCH	VN	-30	4.51	0.002396	± 2.5	PASS
		VN	-20	-1.24	-0.000659	± 2.5	PASS
		VN	-10	0	0.000000	± 2.5	PASS
		VN	0	1.86	0.000988	± 2.5	PASS
		VN	10	-1.56	-0.000829	± 2.5	PASS
		VN	20	1.05	0.000558	± 2.5	PASS
		VN	30	-0.81	-0.000430	± 2.5	PASS
		VN	40	-0.79	-0.000420	± 2.5	PASS
		VN	50	3.68	0.001955	± 2.5	PASS
	HCH	VN	-30	-1.21	-0.000634	± 2.5	PASS
		VN	-20	-1.07	-0.000561	± 2.5	PASS
		VN	-10	2.72	0.001426	± 2.5	PASS
		VN	0	3.88	0.002034	± 2.5	PASS
		VN	10	2.75	0.001442	± 2.5	PASS
		VN	20	2.72	0.001426	± 2.5	PASS
		VN	30	1.91	0.001001	± 2.5	PASS
		VN	40	3.09	0.001620	± 2.5	PASS
		VN	50	4.65	0.002438	± 2.5	PASS

Channel Bandwidth: 20 MHz

Channel Bandwidth: 20 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	3.77	0.002027	± 2.5	PASS
		VN	TN	-0.27	-0.000145	± 2.5	PASS
		VH	TN	3.68	0.001978	± 2.5	PASS
	MCH	VL	TN	-1.2	-0.000637	± 2.5	PASS
		VN	TN	2.09	0.001110	± 2.5	PASS
		VH	TN	2.64	0.001402	± 2.5	PASS
	HCH	VL	TN	0.07	0.000037	± 2.5	PASS
		VN	TN	1.95	0.001024	± 2.5	PASS
		VH	TN	3.67	0.001927	± 2.5	PASS
16QAM	LCH	VL	TN	0.85	0.000457	± 2.5	PASS
		VN	TN	1.42	0.000763	± 2.5	PASS
		VH	TN	0.35	0.000188	± 2.5	PASS
	MCH	VL	TN	2.12	0.001126	± 2.5	PASS
		VN	TN	1.6	0.000850	± 2.5	PASS
		VH	TN	0.6	0.000319	± 2.5	PASS
	HCH	VL	TN	-1.28	-0.000672	± 2.5	PASS
		VN	TN	0.99	0.000520	± 2.5	PASS
		VH	TN	2.02	0.001060	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	3.34	0.001796	± 2.5	PASS
		VN	-20	4.74	0.002548	± 2.5	PASS
		VN	-10	1.04	0.000559	± 2.5	PASS
		VN	0	2.31	0.001242	± 2.5	PASS
		VN	10	2.05	0.001102	± 2.5	PASS
		VN	20	-0.23	-0.000124	± 2.5	PASS
		VN	30	2.49	0.001339	± 2.5	PASS
		VN	40	3.86	0.002075	± 2.5	PASS
		VN	50	-1.91	-0.001027	± 2.5	PASS
	MCH	VN	-30	3.93	0.002090	± 2.5	PASS
		VN	-20	-0.02	-0.000011	± 2.5	PASS
		VN	-10	2.4	0.001277	± 2.5	PASS
		VN	0	2.88	0.001532	± 2.5	PASS
		VN	10	-0.74	-0.000394	± 2.5	PASS
		VN	20	3.3	0.001755	± 2.5	PASS

		VN	30	-0.08	-0.000043	± 2.5	PASS
		VN	40	2.37	0.001261	± 2.5	PASS
		VN	50	-0.69	-0.000367	± 2.5	PASS
	HCH	VN	-30	-1.66	-0.000871	± 2.5	PASS
		VN	-20	3.22	0.001690	± 2.5	PASS
		VN	-10	3.65	0.001916	± 2.5	PASS
		VN	0	4.2	0.002205	± 2.5	PASS
		VN	10	-1.05	-0.000551	± 2.5	PASS
		VN	20	0.16	0.000084	± 2.5	PASS
		VN	30	3.92	0.002058	± 2.5	PASS
		VN	40	1.76	0.000924	± 2.5	PASS
		VN	50	4.62	0.002425	± 2.5	PASS
16QAM	LCH	VN	-30	4.01	0.002156	± 2.5	PASS
		VN	-20	0.66	0.000355	± 2.5	PASS
		VN	-10	0.14	0.000075	± 2.5	PASS
		VN	0	3.22	0.001731	± 2.5	PASS
		VN	10	0.95	0.000511	± 2.5	PASS
		VN	20	1.81	0.000973	± 2.5	PASS
		VN	30	-0.49	-0.000263	± 2.5	PASS
		VN	40	3.84	0.002065	± 2.5	PASS
		VN	50	0.47	0.000253	± 2.5	PASS
	MCH	VN	-30	-0.22	-0.000117	± 2.5	PASS
		VN	-20	1.83	0.000972	± 2.5	PASS
		VN	-10	3.58	0.001902	± 2.5	PASS
		VN	0	4.73	0.002513	± 2.5	PASS
		VN	10	4.38	0.002327	± 2.5	PASS
		VN	20	4.55	0.002417	± 2.5	PASS
		VN	30	3.01	0.001599	± 2.5	PASS
		VN	40	-0.88	-0.000467	± 2.5	PASS
		VN	50	-0.59	-0.000313	± 2.5	PASS
	HCH	VN	-30	1.56	0.000819	± 2.5	PASS
		VN	-20	-0.28	-0.000147	± 2.5	PASS
		VN	-10	1.06	0.000556	± 2.5	PASS
		VN	0	2.4	0.001260	± 2.5	PASS
		VN	10	0.68	0.000357	± 2.5	PASS
		VN	20	-0.05	-0.000026	± 2.5	PASS
		VN	30	4.47	0.002346	± 2.5	PASS
		VN	40	2.33	0.001223	± 2.5	PASS
		VN	50	3.98	0.002089	± 2.5	PASS