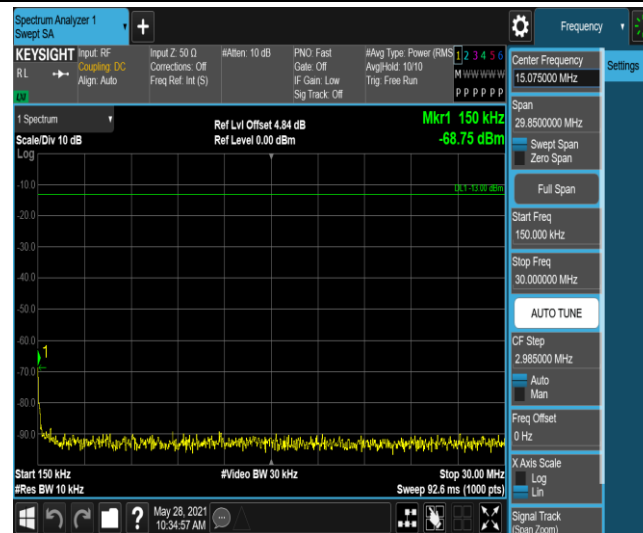
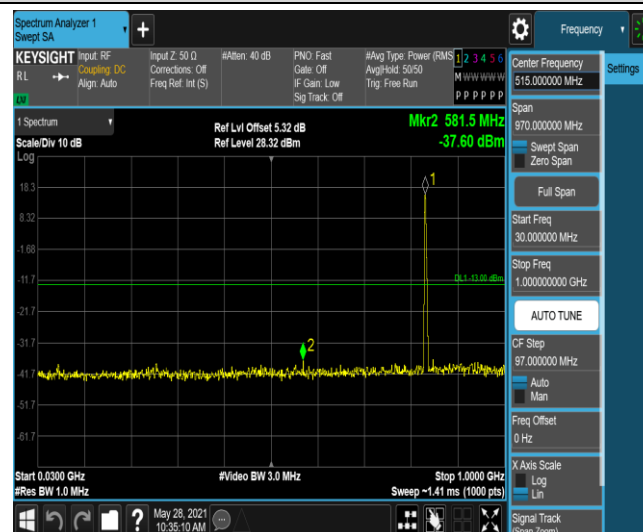




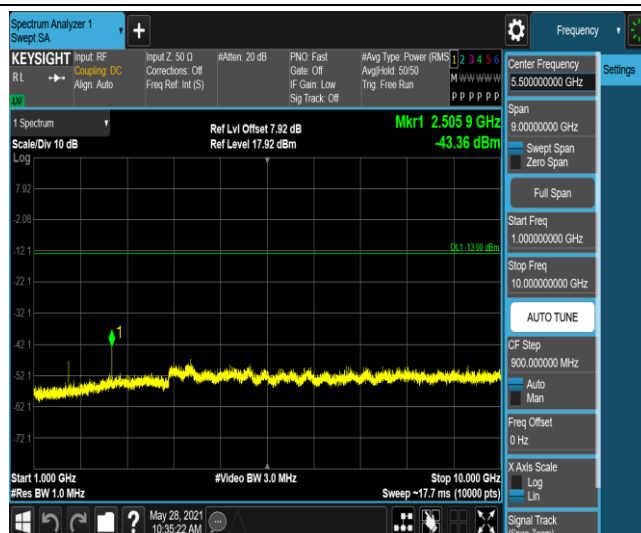
Band5-3MHz-16QAM-20525-1RB#0-Range2:0.15~30MHz



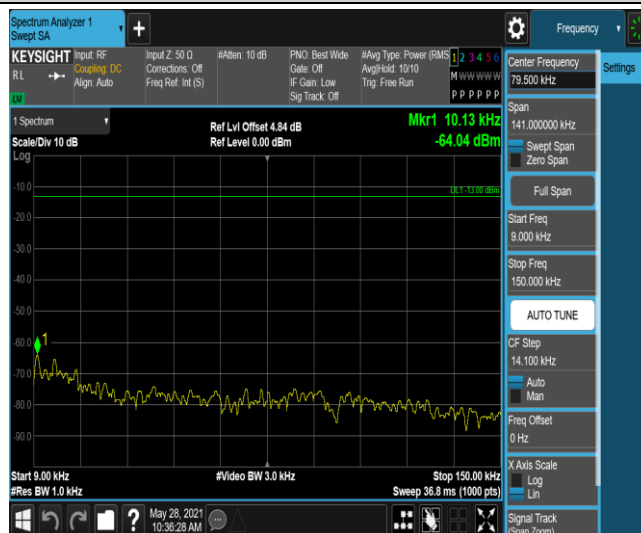
Band5-3MHz-16QAM-20525-1RB#0-Range3:30~1000MHz



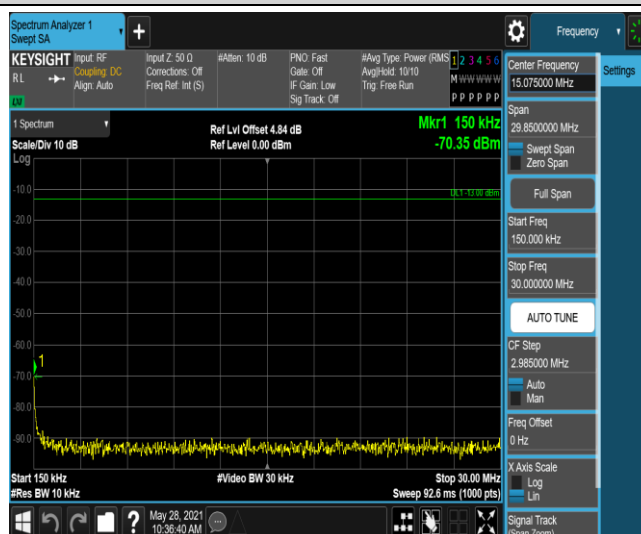
Band5-3MHz-16QAM-20525-1RB#0-Range4:1000~10000MHz



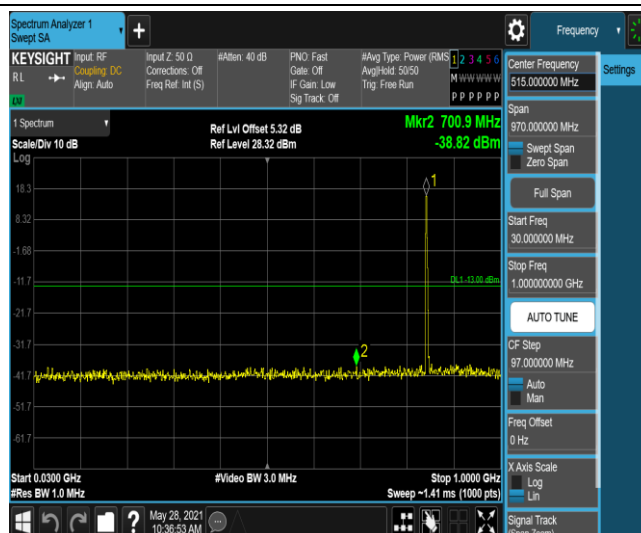
Band5-3MHz-16QAM-20635-1RB#0-Range1:0.009~0.15MHz



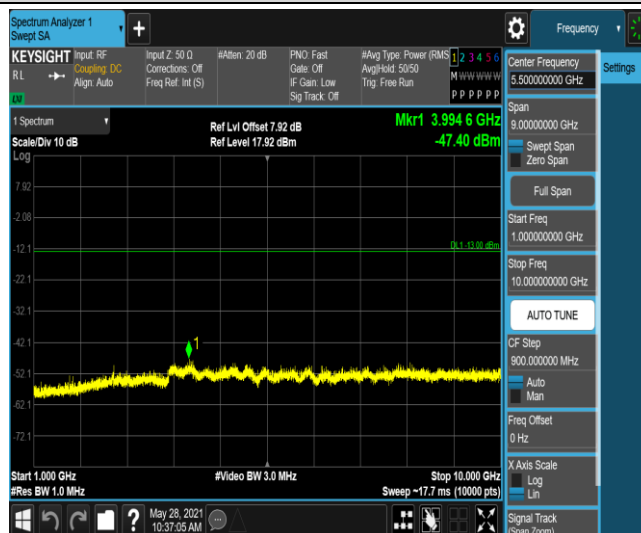
Band5-3MHz-16QAM-20635-1RB#0-Range2:0.15~30MHz



Band5-3MHz-16QAM-20635-1RB#0-Range3:30~1000MHz



Band5-3MHz-16QAM-20635-1RB#0-Range4:1000~10000MHz



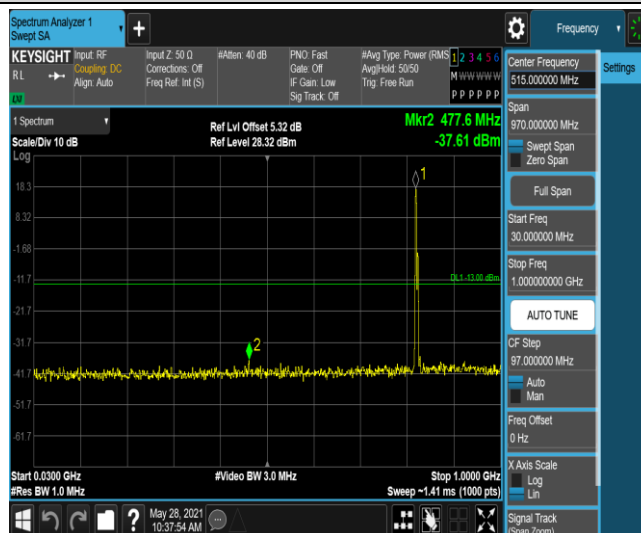
Band5-5MHz-QPSK-20425-1RB#0-Range1:0.009~0.15MHz



Band5-5MHz-QPSK-20425-1RB#0-Range2:0.15~30MHz



Band5-5MHz-QPSK-20425-1RB#0-Range3:30~1000MHz



Band5-5MHz-QPSK-20425-1RB#0-Range4:1000~10000MHz



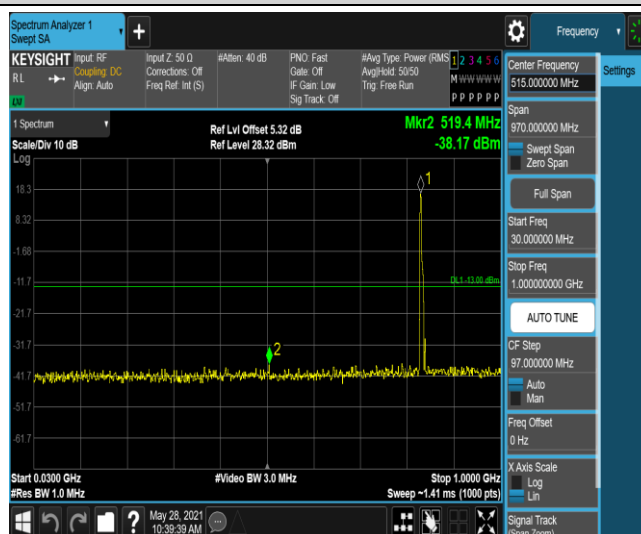
Band5-5MHz-QPSK-20525-1RB#0-Range1:0.009~0.15MHz



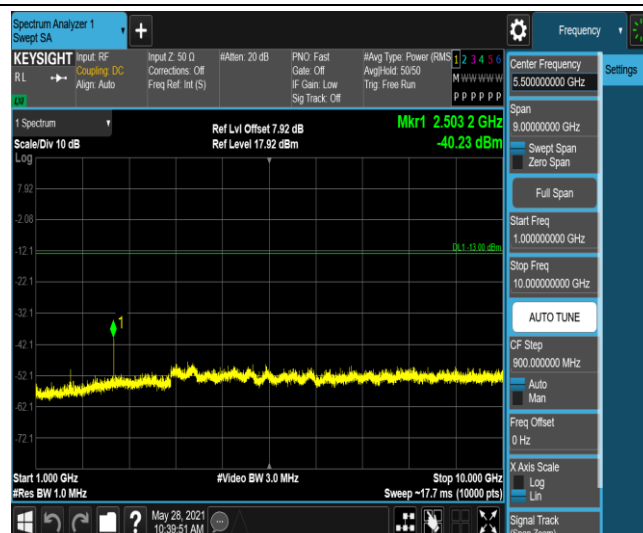
Band5-5MHz-QPSK-20525-1RB#0-Range2:0.15~30MHz



Band5-5MHz-QPSK-20525-1RB#0-Range3:30~1000MHz



Band5-5MHz-QPSK-20525-1RB#0-Range4:1000~10000MHz



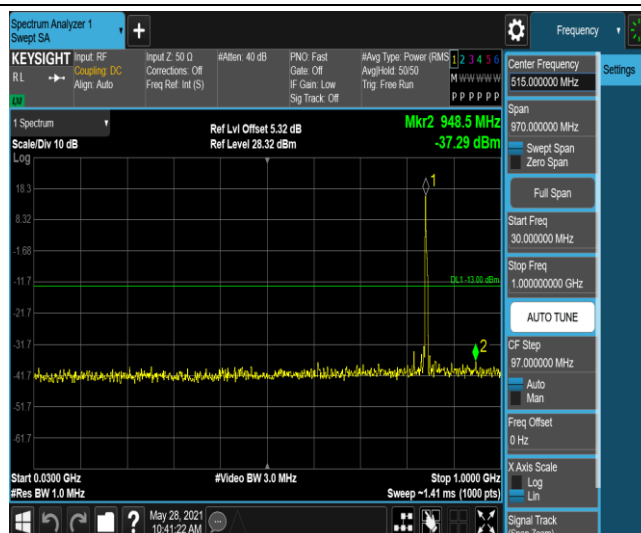
Band5-5MHz-QPSK-20625-1RB#0-Range1:0.009~0.15MHz



Band5-5MHz-QPSK-20625-1RB#0-Range2:0.15~30MHz



Band5-5MHz-QPSK-20625-1RB#0-Range3:30~1000MHz



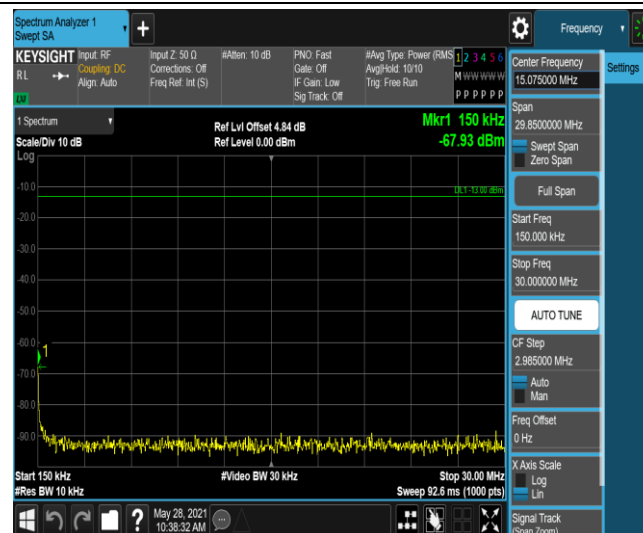
Band5-5MHz-QPSK-20625-1RB#0-Range4:1000~10000MHz



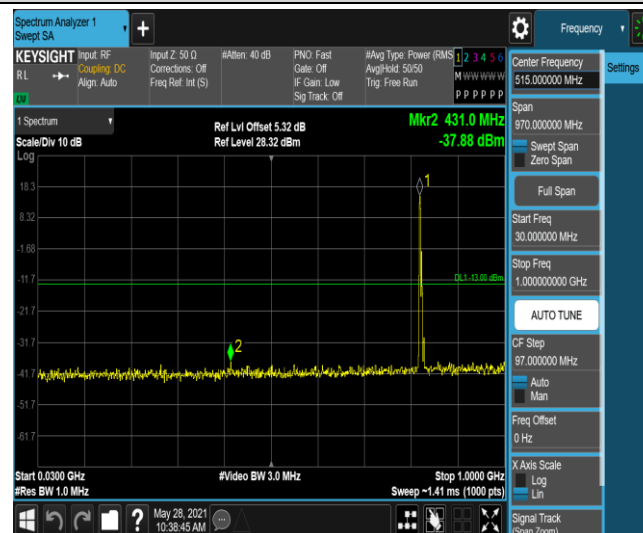
Band5-5MHz-16QAM-20425-1RB#0-Range1:0.009~0.15MHz



Band5-5MHz-16QAM-20425-1RB#0-Range2:0.15~30MHz



Band5-5MHz-16QAM-20425-1RB#0-Range3:30~1000MHz



Band5-5MHz-16QAM-20425-1RB#0-Range4:1000~10000MHz



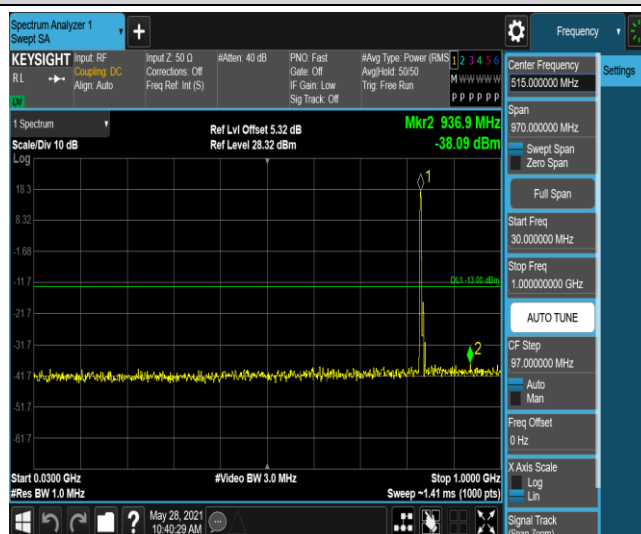
Band5-5MHz-16QAM-20525-1RB#0-Range1:0.009~0.15MHz



Band5-5MHz-16QAM-20525-1RB#0-Range2:0.15~30MHz



Band5-5MHz-16QAM-20525-1RB#0-Range3:30~1000MHz



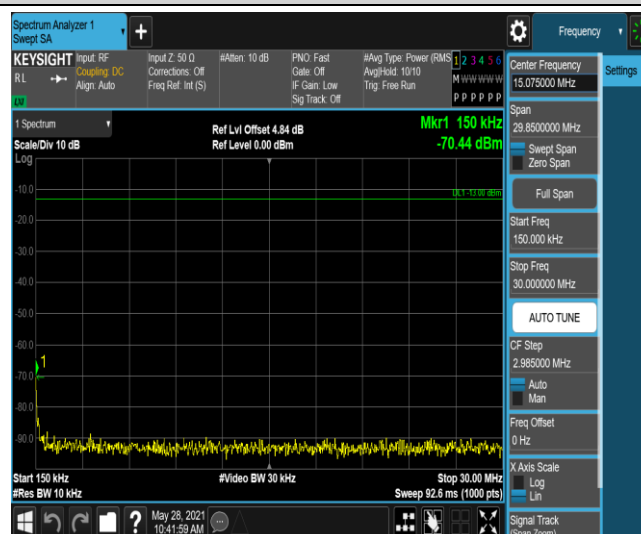
Band5-5MHz-16QAM-20525-1RB#0-Range4:1000~10000MHz



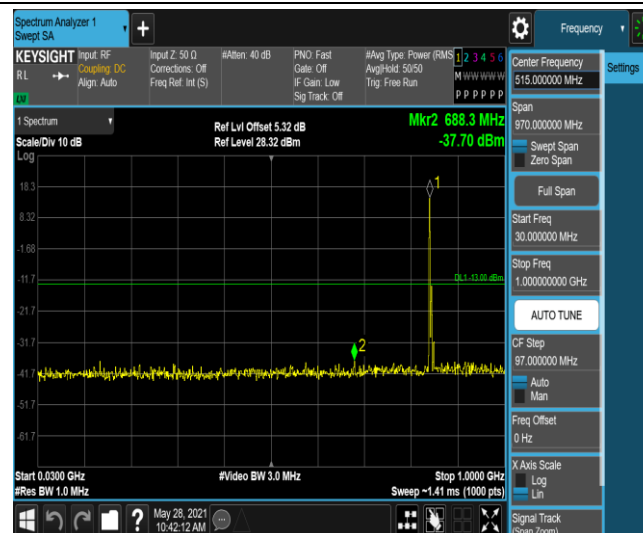
Band5-5MHz-16QAM-20625-1RB#0-Range1:0.009~0.15MHz



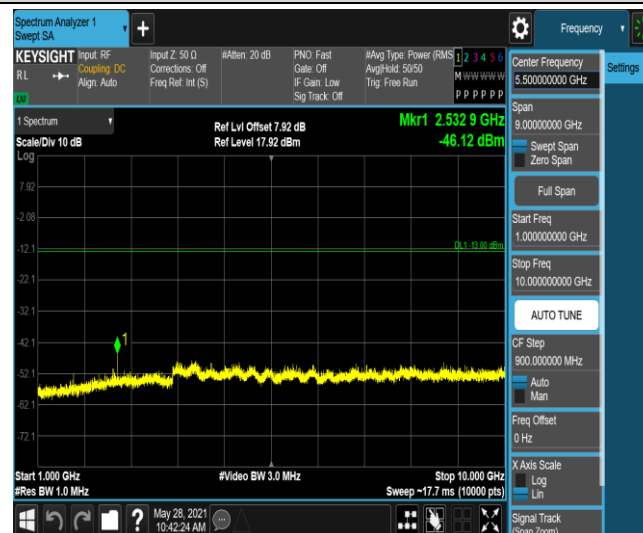
Band5-5MHz-16QAM-20625-1RB#0-Range2:0.15~30MHz



Band5-5MHz-16QAM-20625-1RB#0-Range3:30~1000MHz



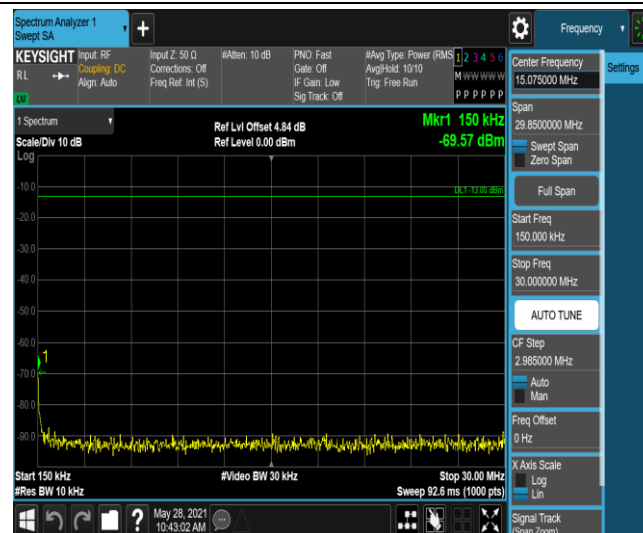
Band5-5MHz-16QAM-20625-1RB#0-Range4:1000~10000MHz



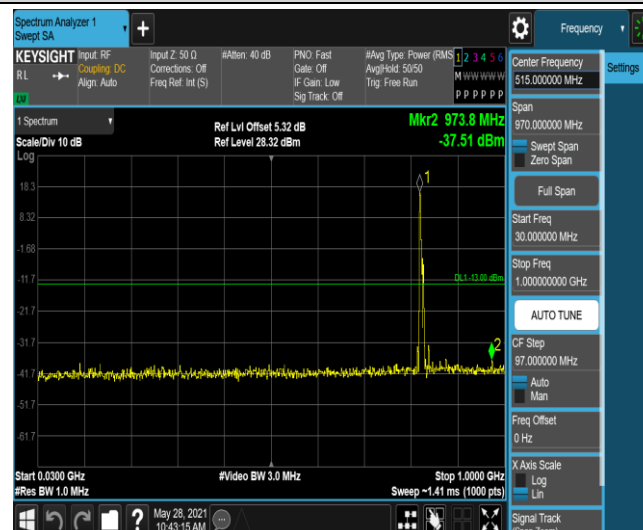
Band5-10MHz-QPSK-20450-1RB#0-Range1:0.009~0.15MHz



Band5-10MHz-QPSK-20450-1RB#0-Range2:0.15~30MHz



Band5-10MHz-QPSK-20450-1RB#0-Range3:30~1000MHz



Band5-10MHz-QPSK-20450-1RB#0-Range4:1000~10000MHz



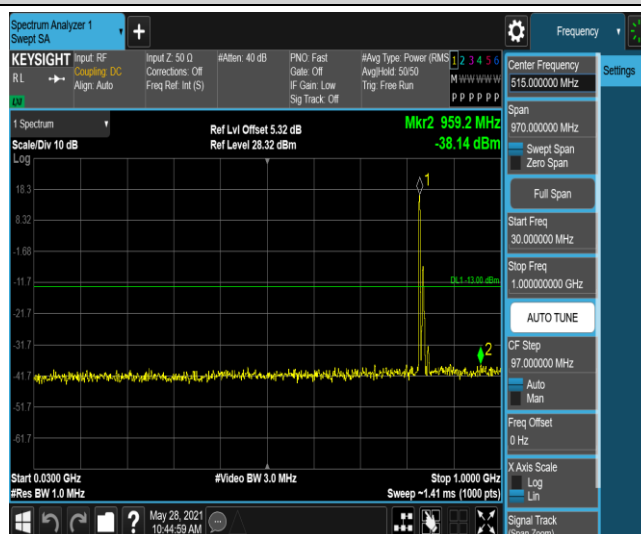
Band5-10MHz-QPSK-20525-1RB#0-Range1:0.009~0.15MHz



Band5-10MHz-QPSK-20525-1RB#0-Range2:0.15~30MHz



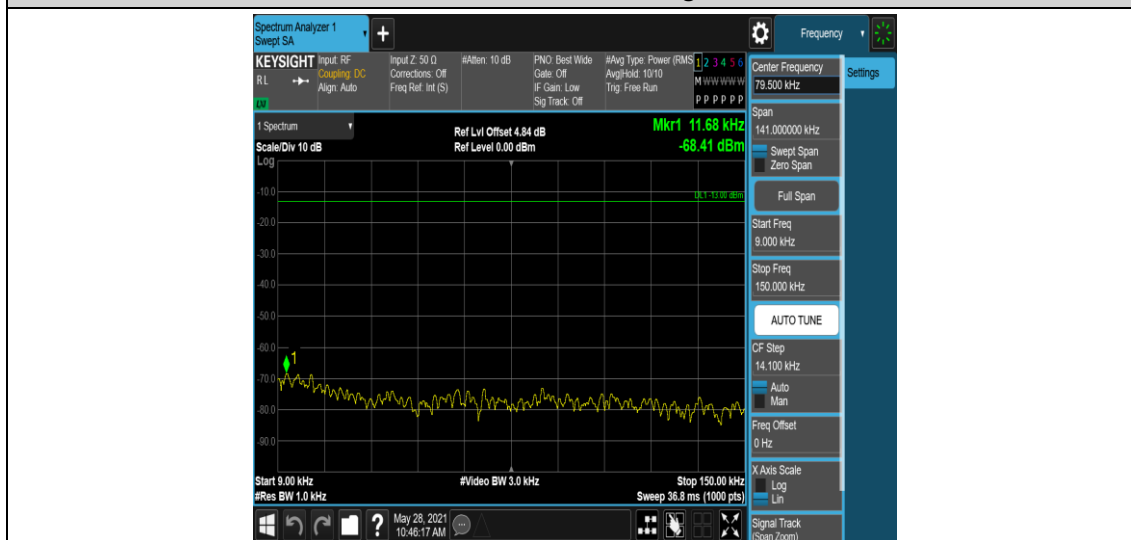
Band5-10MHz-QPSK-20525-1RB#0-Range3:30~1000MHz



Band5-10MHz-QPSK-20525-1RB#0-Range4:1000~10000MHz



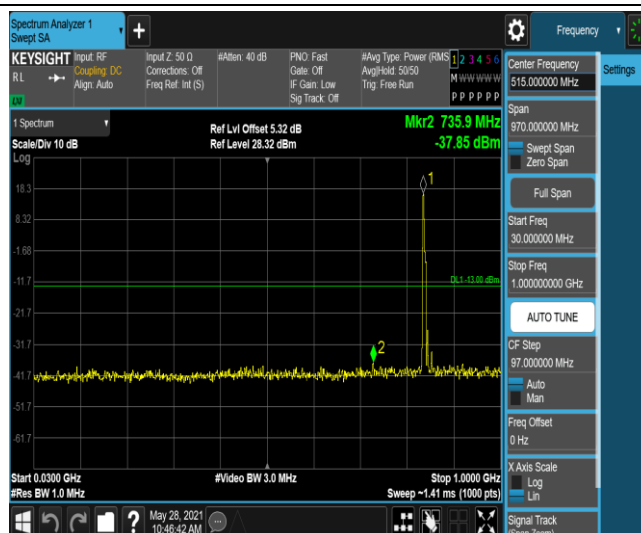
Band5-10MHz-QPSK-20600-1RB#0-Range1:0.009~0.15MHz



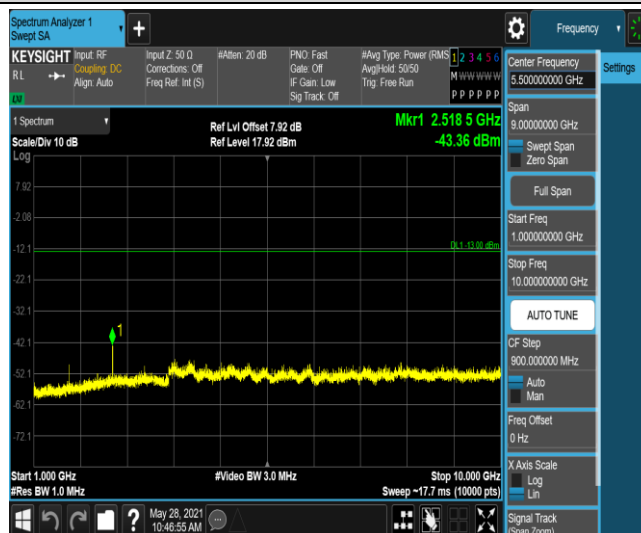
Band5-10MHz-QPSK-20600-1RB#0-Range2:0.15~30MHz



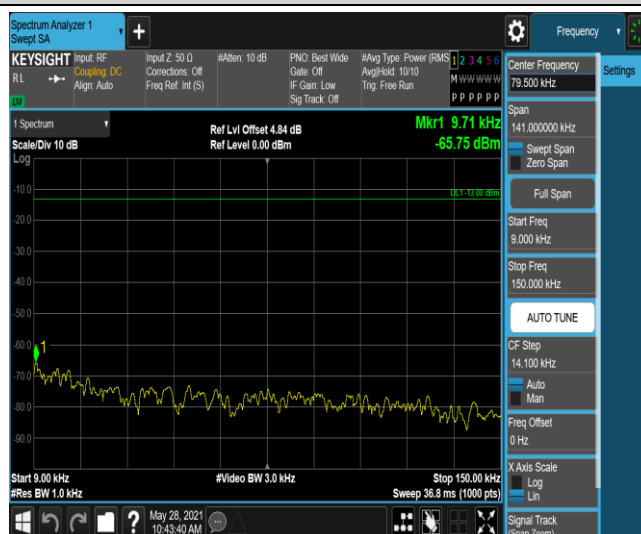
Band5-10MHz-QPSK-20600-1RB#0-Range3:30~1000MHz



Band5-10MHz-QPSK-20600-1RB#0-Range4:1000~10000MHz



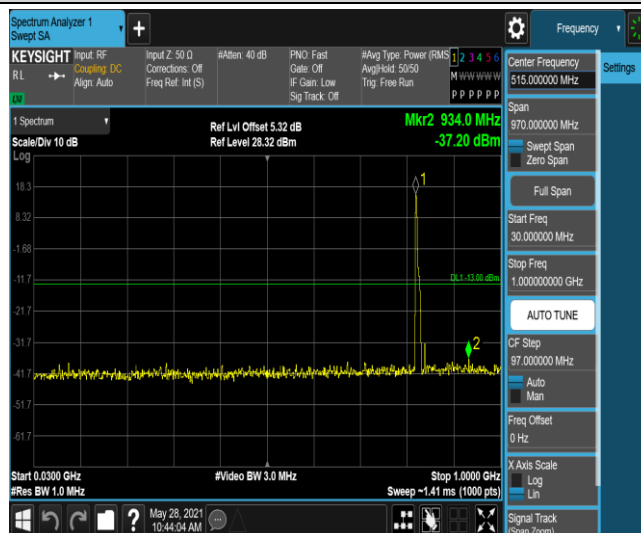
Band5-10MHz-16QAM-20450-1RB#0-Range1:0.009~0.15MHz



Band5-10MHz-16QAM-20450-1RB#0-Range2:0.15~30MHz



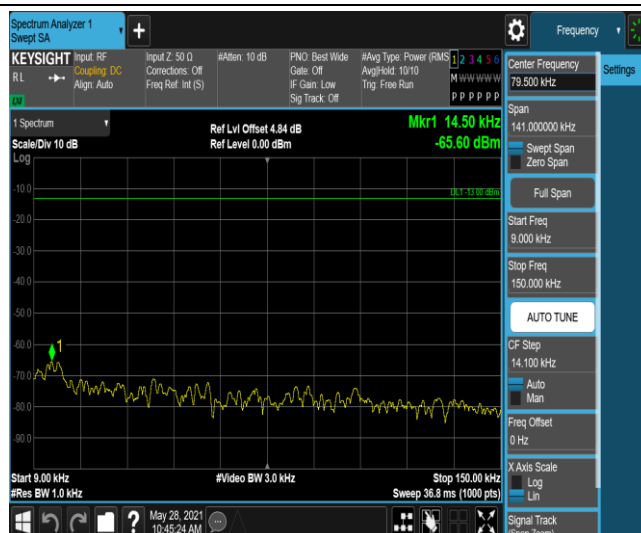
Band5-10MHz-16QAM-20450-1RB#0-Range3:30~1000MHz



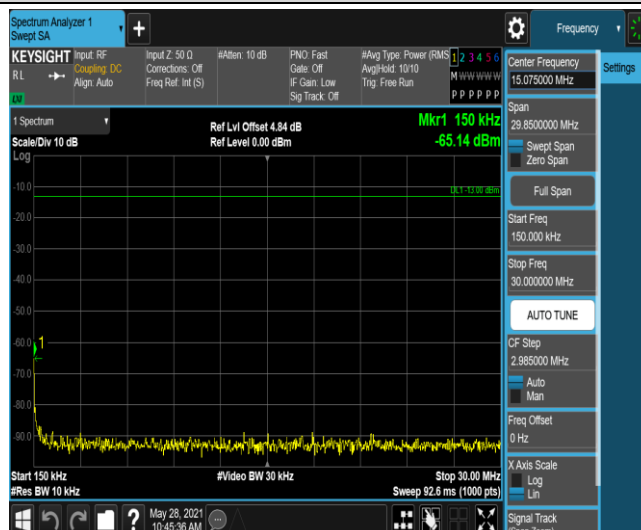
Band5-10MHz-16QAM-20450-1RB#0-Range4:1000~10000MHz



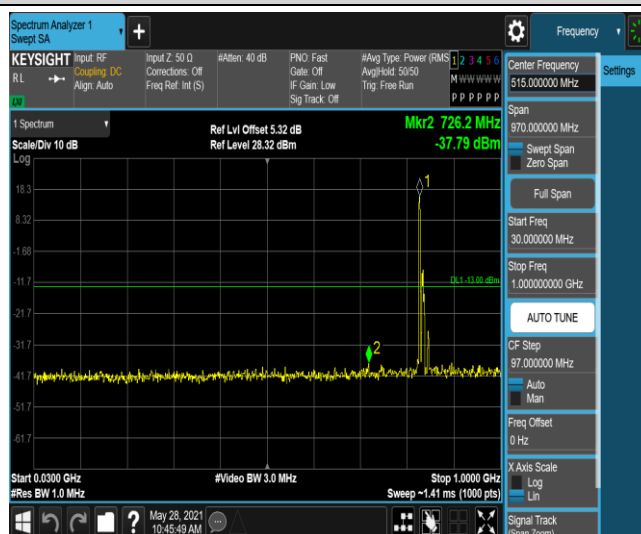
Band5-10MHz-16QAM-20525-1RB#0-Range1:0.009~0.15MHz



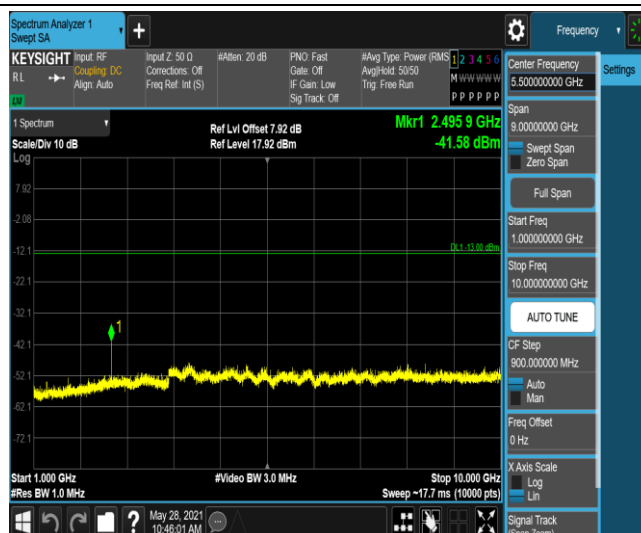
Band5-10MHz-16QAM-20525-1RB#0-Range2:0.15~30MHz



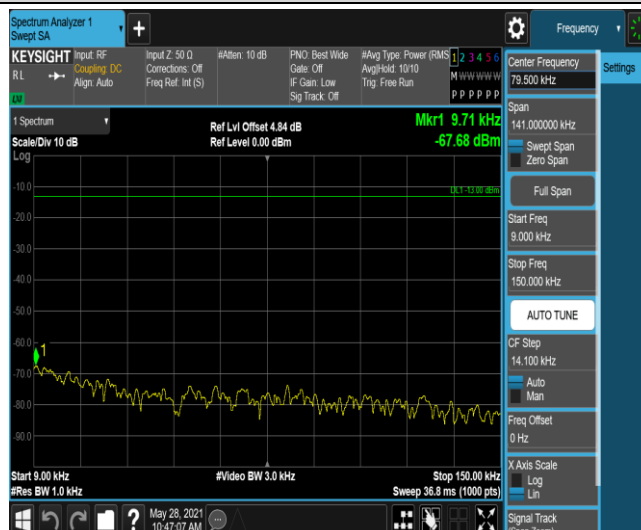
Band5-10MHz-16QAM-20525-1RB#0-Range3:30~1000MHz



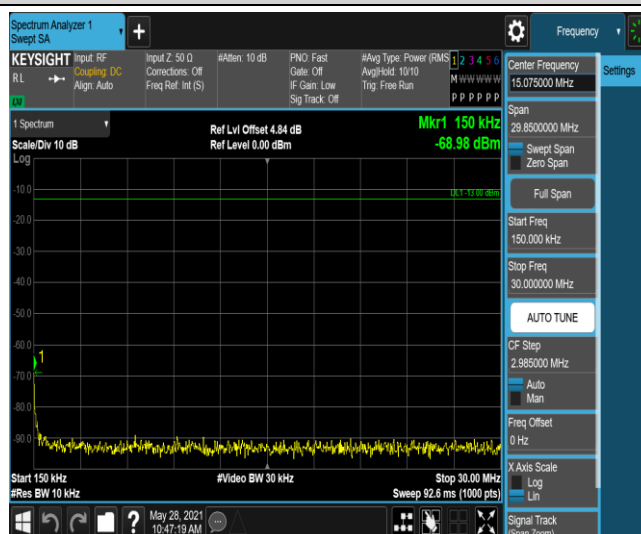
Band5-10MHz-16QAM-20525-1RB#0-Range4:1000~10000MHz



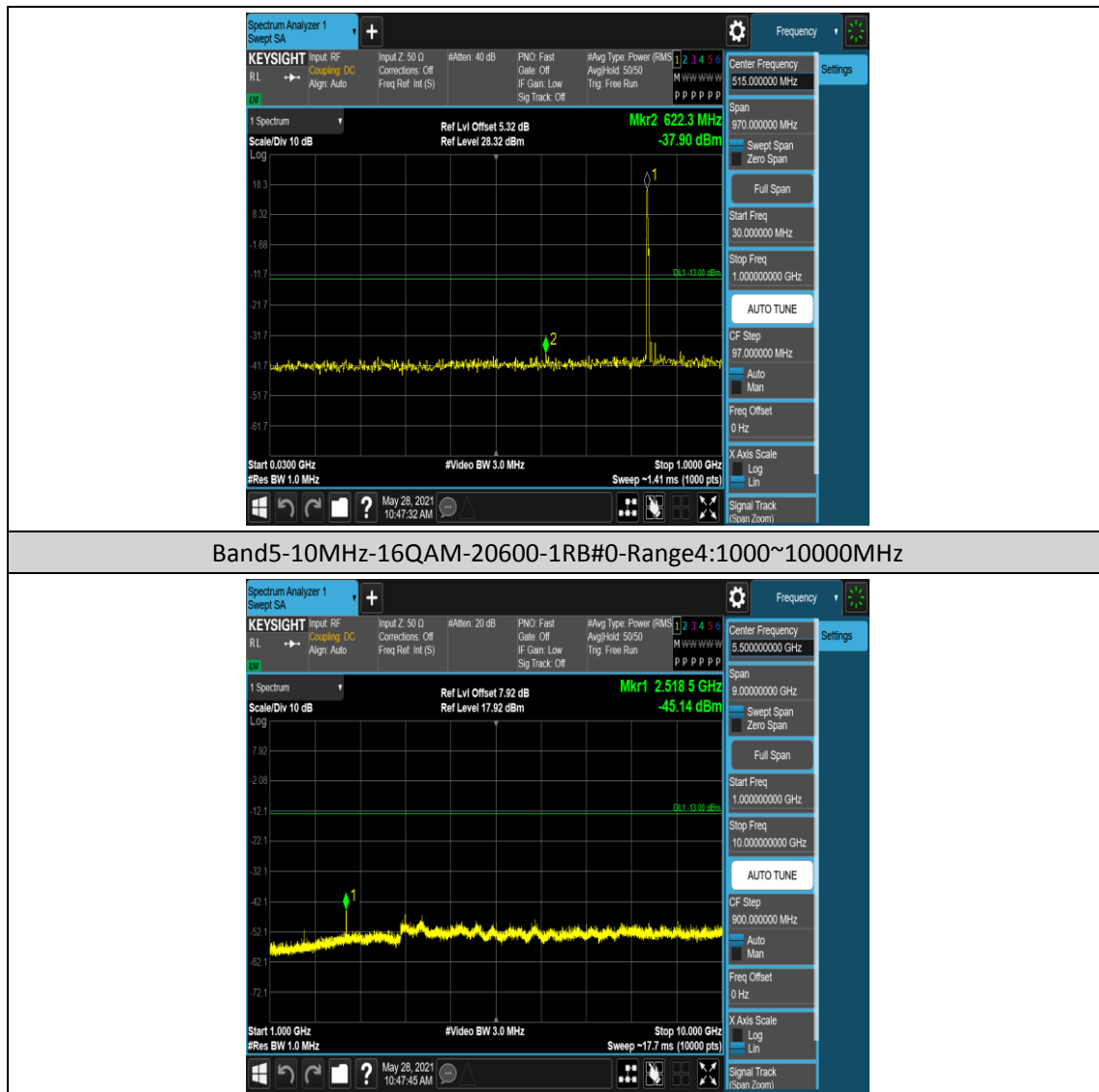
Band5-10MHz-16QAM-20600-1RB#0-Range1:0.009~0.15MHz



Band5-10MHz-16QAM-20600-1RB#0-Range2:0.15~30MHz



Band5-10MHz-16QAM-20600-1RB#0-Range3:30~1000MHz



Appendix F: Frequency Stability

Test Result

Channel Bandwidth: 1.4 MHz

Channel Bandwidth: 1.4 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	2.77	0.003359	± 2.5	PASS
		VN	TN	3.58	0.004341	± 2.5	PASS
		VH	TN	3.25	0.003941	± 2.5	PASS
	MCH	VL	TN	2.39	0.002857	± 2.5	PASS
		VN	TN	1.04	0.001243	± 2.5	PASS
		VH	TN	-1.03	-0.001231	± 2.5	PASS
	HCH	VL	TN	3.16	0.003725	± 2.5	PASS
		VN	TN	4.29	0.005057	± 2.5	PASS
		VH	TN	-0.65	-0.000766	± 2.5	PASS
16QAM	LCH	VL	TN	0.45	0.000546	± 2.5	PASS
		VN	TN	-1.36	-0.001649	± 2.5	PASS
		VH	TN	1.61	0.001952	± 2.5	PASS
	MCH	VL	TN	0.24	0.000287	± 2.5	PASS
		VN	TN	3.21	0.003837	± 2.5	PASS
		VH	TN	4.95	0.005918	± 2.5	PASS
	HCH	VL	TN	4.1	0.004833	± 2.5	PASS
		VN	TN	4.12	0.004857	± 2.5	PASS
		VH	TN	-0.36	-0.000424	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	4.42	0.005360	± 2.5	PASS
		VN	-20	-1.35	-0.001637	± 2.5	PASS
		VN	-10	2.32	0.002813	± 2.5	PASS
		VN	0	-1.06	-0.001285	± 2.5	PASS
		VN	10	2.03	0.002462	± 2.5	PASS
		VN	20	-0.19	-0.000230	± 2.5	PASS
		VN	30	-1.95	-0.002364	± 2.5	PASS
		VN	40	1.13	0.001370	± 2.5	PASS
		VN	50	2.89	0.003504	± 2.5	PASS
	MCH	VN	-30	0.84	0.001004	± 2.5	PASS

		VN	-20	0.46	0.000550	± 2.5	PASS
		VN	-10	-0.01	-0.000012	± 2.5	PASS
		VN	0	1.5	0.001793	± 2.5	PASS
		VN	10	-0.11	-0.000132	± 2.5	PASS
		VN	20	1.17	0.001399	± 2.5	PASS
		VN	30	-1.16	-0.001387	± 2.5	PASS
		VN	40	-0.68	-0.000813	± 2.5	PASS
		VN	50	-1.69	-0.002020	± 2.5	PASS
	HCH	VN	-30	-0.16	-0.000189	± 2.5	PASS
		VN	-20	2.46	0.002900	± 2.5	PASS
		VN	-10	2.94	0.003466	± 2.5	PASS
		VN	0	0.6	0.000707	± 2.5	PASS
		VN	10	2.43	0.002865	± 2.5	PASS
		VN	20	-1.8	-0.002122	± 2.5	PASS
		VN	30	-1.16	-0.001367	± 2.5	PASS
		VN	40	4.4	0.005187	± 2.5	PASS
		VN	50	-0.72	-0.000849	± 2.5	PASS
16QAM	LCH	VN	-30	-0.65	-0.000788	± 2.5	PASS
		VN	-20	-1.99	-0.002413	± 2.5	PASS
		VN	-10	3.09	0.003747	± 2.5	PASS
		VN	0	0.97	0.001176	± 2.5	PASS
		VN	10	2.45	0.002971	± 2.5	PASS
		VN	20	-1.04	-0.001261	± 2.5	PASS
		VN	30	3.71	0.004499	± 2.5	PASS
		VN	40	0.52	0.000631	± 2.5	PASS
		VN	50	3.95	0.004790	± 2.5	PASS
	MCH	VN	-30	3.65	0.004363	± 2.5	PASS
		VN	-20	4.2	0.005021	± 2.5	PASS
		VN	-10	-1.5	-0.001793	± 2.5	PASS
		VN	0	-1.76	-0.002104	± 2.5	PASS
		VN	10	0.31	0.000371	± 2.5	PASS
		VN	20	1.67	0.001996	± 2.5	PASS
		VN	30	0.28	0.000335	± 2.5	PASS
		VN	40	2.23	0.002666	± 2.5	PASS
		VN	50	-1.98	-0.002367	± 2.5	PASS
	HCH	VN	-30	2.73	0.003218	± 2.5	PASS
		VN	-20	2.45	0.002888	± 2.5	PASS
		VN	-10	-1.18	-0.001391	± 2.5	PASS
		VN	0	3.77	0.004444	± 2.5	PASS
		VN	10	1.98	0.002334	± 2.5	PASS
		VN	20	-1.83	-0.002157	± 2.5	PASS

		VN	30	-0.88	-0.001037	± 2.5	PASS
		VN	40	-0.61	-0.000719	± 2.5	PASS
		VN	50	3.91	0.004609	± 2.5	PASS

Channel Bandwidth: 3 MHz

Channel Bandwidth: 3 MHz+							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	2.77	0.003356	± 2.5	PASS
		VN	TN	-1.88	-0.002277	± 2.5	PASS
		VH	TN	4.55	0.005512	± 2.5	PASS
	MCH	VL	TN	-1.51	-0.001805	± 2.5	PASS
		VN	TN	-1.64	-0.001961	± 2.5	PASS
		VH	TN	4.81	0.005750	± 2.5	PASS
	HCH	VL	TN	4.58	0.005404	± 2.5	PASS
		VN	TN	3.91	0.004614	± 2.5	PASS
		VH	TN	-0.74	-0.000873	± 2.5	PASS
16QAM	LCH	VL	TN	-1.03	-0.001248	± 2.5	PASS
		VN	TN	1.69	0.002047	± 2.5	PASS
		VH	TN	-1.32	-0.001599	± 2.5	PASS
	MCH	VL	TN	4.59	0.005487	± 2.5	PASS
		VN	TN	4.18	0.004997	± 2.5	PASS
		VH	TN	2.02	0.002415	± 2.5	PASS
	HCH	VL	TN	-1.78	-0.002100	± 2.5	PASS
		VN	TN	3.95	0.004661	± 2.5	PASS
		VH	TN	1.55	0.001829	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	4.36	0.005282	± 2.5	PASS
		VN	-20	-0.51	-0.000618	± 2.5	PASS
		VN	-10	3.27	0.003961	± 2.5	PASS
		VN	0	4.93	0.005972	± 2.5	PASS
		VN	10	3.91	0.004737	± 2.5	PASS
		VN	20	2.48	0.003004	± 2.5	PASS
		VN	30	2.97	0.003598	± 2.5	PASS
		VN	40	-0.16	-0.000194	± 2.5	PASS
		VN	50	-1.7	-0.002059	± 2.5	PASS
	MCH	VN	-30	-1.43	-0.001710	± 2.5	PASS
		VN	-20	-1.49	-0.001781	± 2.5	PASS