



Appendix E: Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Verdict
Band17	5MHz	QPSK	23755	1RB#0	Range1:0.009~0.15MHz	PASS
Band17	5MHz	QPSK	23755	1RB#0	Range2:0.15~30MHz	PASS
Band17	5MHz	QPSK	23755	1RB#0	Range3:30~1000MHz	PASS
Band17	5MHz	QPSK	23755	1RB#0	Range4:1000~20000MHz	PASS
Band17	5MHz	QPSK	23790	1RB#0	Range1:0.009~0.15MHz	PASS
Band17	5MHz	QPSK	23790	1RB#0	Range2:0.15~30MHz	PASS
Band17	5MHz	QPSK	23790	1RB#0	Range3:30~1000MHz	PASS
Band17	5MHz	QPSK	23790	1RB#0	Range4:1000~20000MHz	PASS
Band17	5MHz	QPSK	23825	1RB#0	Range1:0.009~0.15MHz	PASS
Band17	5MHz	QPSK	23825	1RB#0	Range2:0.15~30MHz	PASS
Band17	5MHz	QPSK	23825	1RB#0	Range3:30~1000MHz	PASS
Band17	5MHz	QPSK	23825	1RB#0	Range4:1000~20000MHz	PASS
Band17	5MHz	16QAM	23755	1RB#0	Range1:0.009~0.15MHz	PASS
Band17	5MHz	16QAM	23755	1RB#0	Range2:0.15~30MHz	PASS
Band17	5MHz	16QAM	23755	1RB#0	Range3:30~1000MHz	PASS
Band17	5MHz	16QAM	23755	1RB#0	Range4:1000~20000MHz	PASS
Band17	5MHz	16QAM	23790	1RB#0	Range1:0.009~0.15MHz	PASS
Band17	5MHz	16QAM	23790	1RB#0	Range2:0.15~30MHz	PASS
Band17	5MHz	16QAM	23790	1RB#0	Range3:30~1000MHz	PASS
Band17	5MHz	16QAM	23790	1RB#0	Range4:1000~20000MHz	PASS
Band17	5MHz	16QAM	23825	1RB#0	Range1:0.009~0.15MHz	PASS
Band17	5MHz	16QAM	23825	1RB#0	Range2:0.15~30MHz	PASS
Band17	5MHz	16QAM	23825	1RB#0	Range3:30~1000MHz	PASS
Band17	5MHz	16QAM	23825	1RB#0	Range4:1000~20000MHz	PASS
Band17	10MHz	QPSK	23780	1RB#0	Range1:0.009~0.15MHz	PASS
Band17	10MHz	QPSK	23780	1RB#0	Range2:0.15~30MHz	PASS
Band17	10MHz	QPSK	23780	1RB#0	Range3:30~1000MHz	PASS
Band17	10MHz	QPSK	23780	1RB#0	Range4:1000~20000MHz	PASS
Band17	10MHz	QPSK	23790	1RB#0	Range1:0.009~0.15MHz	PASS
Band17	10MHz	QPSK	23790	1RB#0	Range2:0.15~30MHz	PASS
Band17	10MHz	QPSK	23790	1RB#0	Range3:30~1000MHz	PASS
Band17	10MHz	QPSK	23790	1RB#0	Range4:1000~20000MHz	PASS
Band17	10MHz	QPSK	23800	1RB#0	Range1:0.009~0.15MHz	PASS
Band17	10MHz	QPSK	23800	1RB#0	Range2:0.15~30MHz	PASS
Band17	10MHz	QPSK	23800	1RB#0	Range3:30~1000MHz	PASS

Band17	10MHz	QPSK	23800	1RB#0	Range4:1000~20000MHz	PASS
Band17	10MHz	16QAM	23780	1RB#0	Range1:0.009~0.15MHz	PASS
Band17	10MHz	16QAM	23780	1RB#0	Range2:0.15~30MHz	PASS
Band17	10MHz	16QAM	23780	1RB#0	Range3:30~1000MHz	PASS
Band17	10MHz	16QAM	23780	1RB#0	Range4:1000~20000MHz	PASS
Band17	10MHz	16QAM	23790	1RB#0	Range1:0.009~0.15MHz	PASS
Band17	10MHz	16QAM	23790	1RB#0	Range2:0.15~30MHz	PASS
Band17	10MHz	16QAM	23790	1RB#0	Range3:30~1000MHz	PASS
Band17	10MHz	16QAM	23790	1RB#0	Range4:1000~20000MHz	PASS
Band17	10MHz	16QAM	23800	1RB#0	Range1:0.009~0.15MHz	PASS
Band17	10MHz	16QAM	23800	1RB#0	Range2:0.15~30MHz	PASS
Band17	10MHz	16QAM	23800	1RB#0	Range3:30~1000MHz	PASS
Band17	10MHz	16QAM	23800	1RB#0	Range4:1000~20000MHz	PASS

Test Graphs

Band17-5MHz-QPSK-23755-1RB#0-Range1:0.009~0.15MHz



Band17-5MHz-QPSK-23755-1RB#0-Range2:0.15~30MHz



Band17-5MHz-QPSK-23755-1RB#0-Range3:30~1000MHz



Band17-5MHz-QPSK-23755-1RB#0-Range4:1000~20000MHz



Band17-5MHz-QPSK-23790-1RB#0-Range1:0.009~0.15MHz



Band17-5MHz-QPSK-23790-1RB#0-Range2:0.15~30MHz



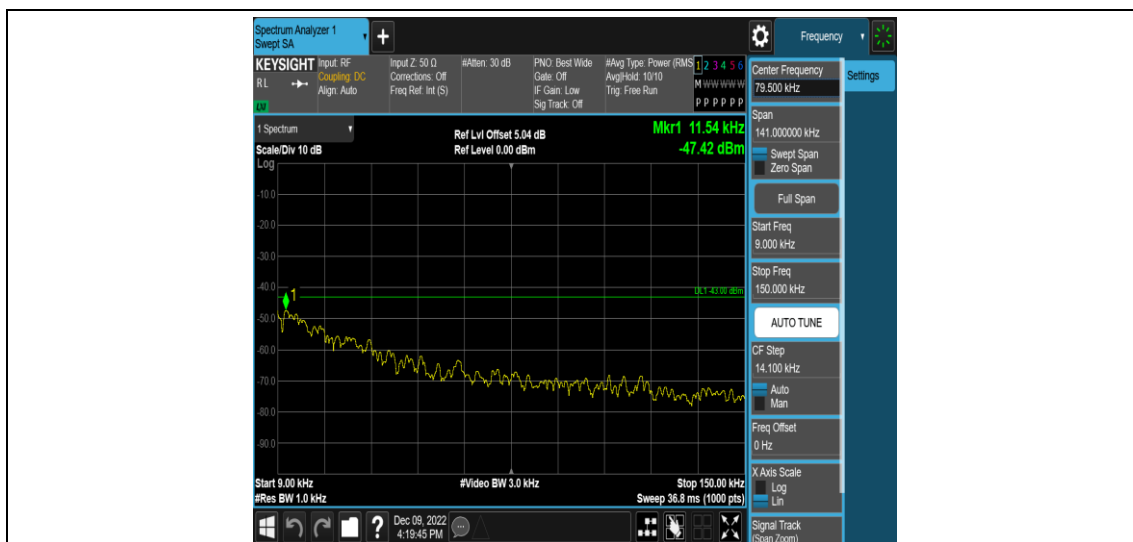
Band17-5MHz-QPSK-23790-1RB#0-Range3:30~1000MHz



Band17-5MHz-QPSK-23790-1RB#0-Range4:1000~20000MHz



Band17-5MHz-QPSK-23825-1RB#0-Range1:0.009~0.15MHz



Band17-5MHz-QPSK-23825-1RB#0-Range2:0.15~30MHz



Band17-5MHz-QPSK-23825-1RB#0-Range3:30~1000MHz



Band17-5MHz-QPSK-23825-1RB#0-Range4:1000~20000MHz



Band17-5MHz-16QAM-23755-1RB#0-Range1:0.009~0.15MHz



Band17-5MHz-16QAM-23755-1RB#0-Range2:0.15~30MHz



Band17-5MHz-16QAM-23755-1RB#0-Range3:30~1000MHz



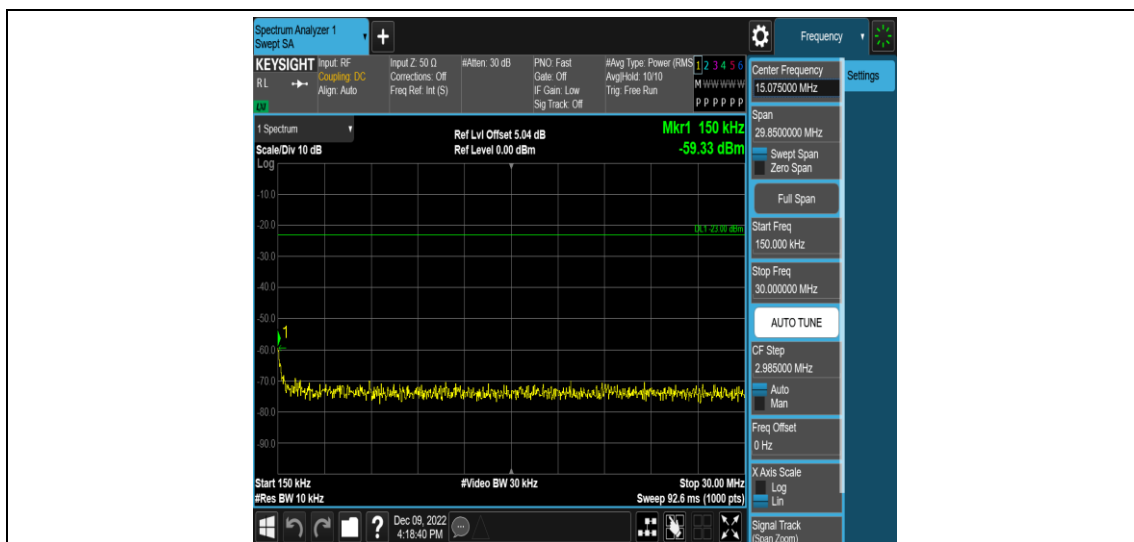
Band17-5MHz-16QAM-23755-1RB#0-Range4:1000~20000MHz



Band17-5MHz-16QAM-23790-1RB#0-Range1:0.009~0.15MHz



Band17-5MHz-16QAM-23790-1RB#0-Range2:0.15~30MHz



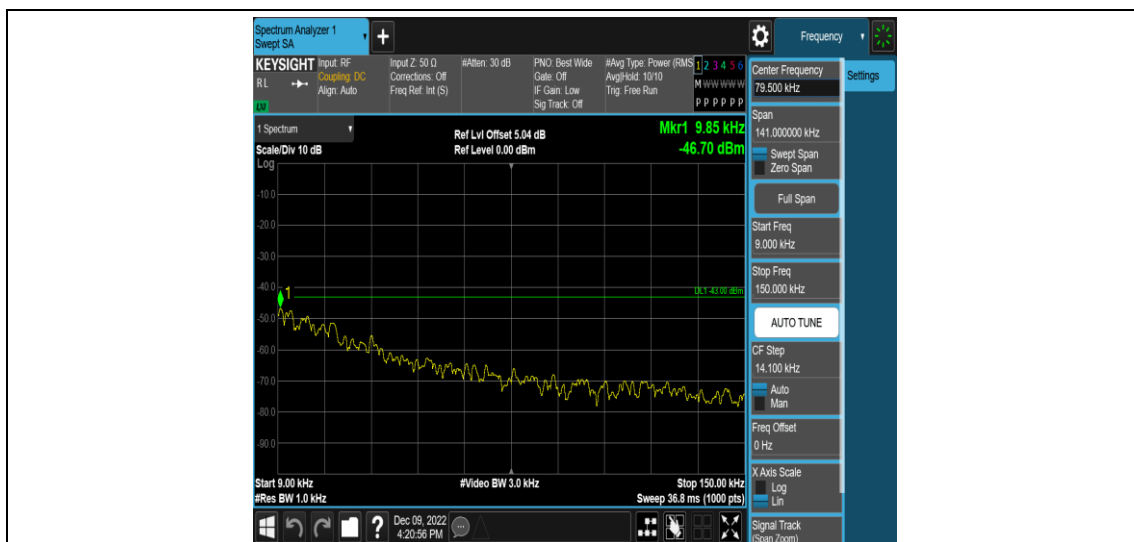
Band17-5MHz-16QAM-23790-1RB#0-Range3:30~1000MHz



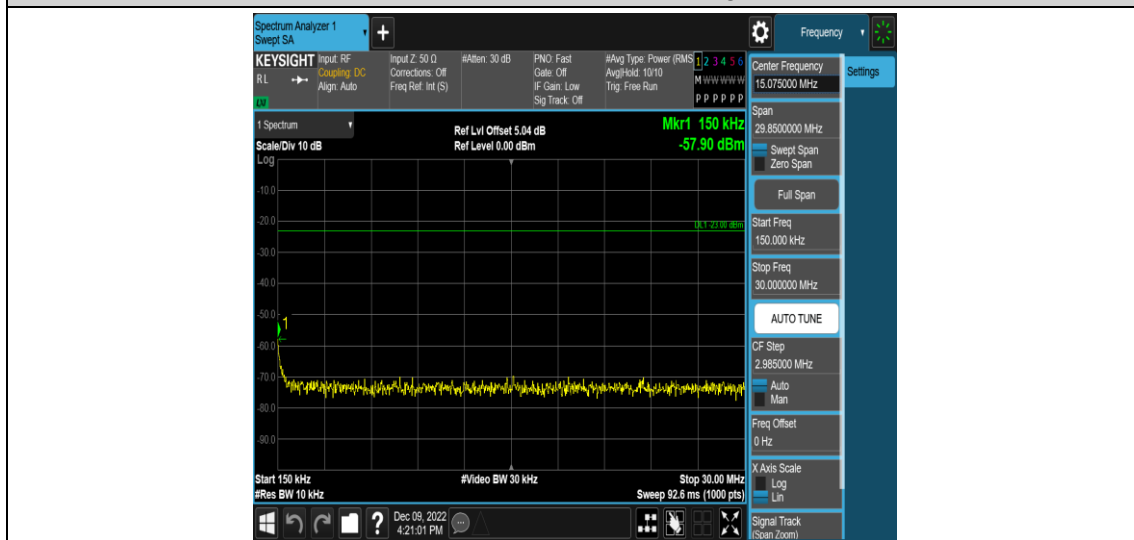
Band17-5MHz-16QAM-23790-1RB#0-Range4:1000~20000MHz



Band17-5MHz-16QAM-23825-1RB#0-Range1:0.009~0.15MHz



Band17-5MHz-16QAM-23825-1RB#0-Range2:0.15~30MHz



Band17-5MHz-16QAM-23825-1RB#0-Range3:30~1000MHz



Band17-5MHz-16QAM-23825-1RB#0-Range4:1000~20000MHz



Band17-10MHz-QPSK-23780-1RB#0-Range1:0.009~0.15MHz



Band17-10MHz-QPSK-23780-1RB#0-Range2:0.15~30MHz



Band17-10MHz-QPSK-23780-1RB#0-Range3:30~1000MHz



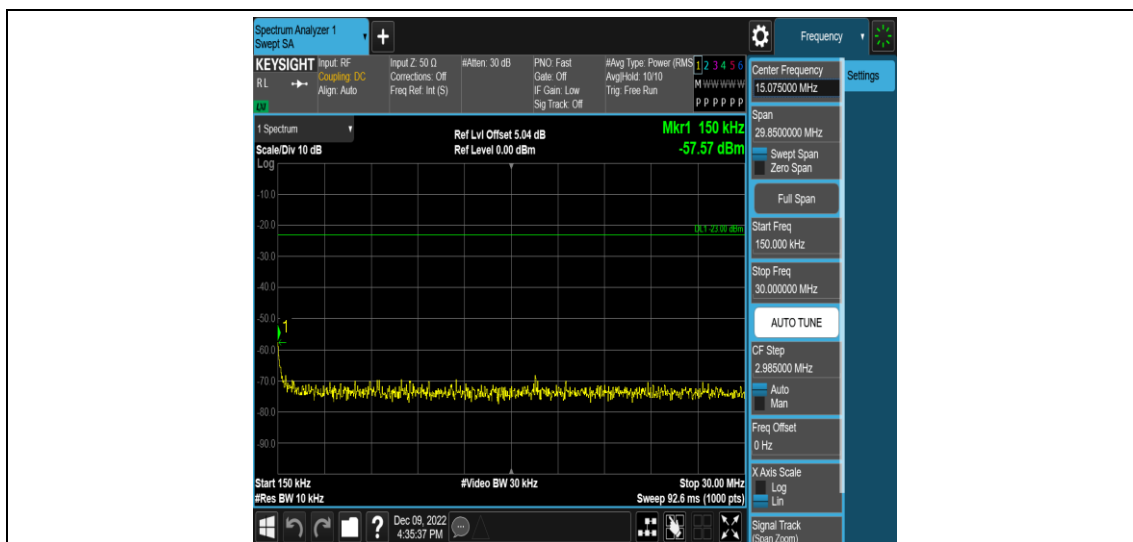
Band17-10MHz-QPSK-23780-1RB#0-Range4:1000~20000MHz



Band17-10MHz-QPSK-23790-1RB#0-Range1:0.009~0.15MHz



Band17-10MHz-QPSK-23790-1RB#0-Range2:0.15~30MHz



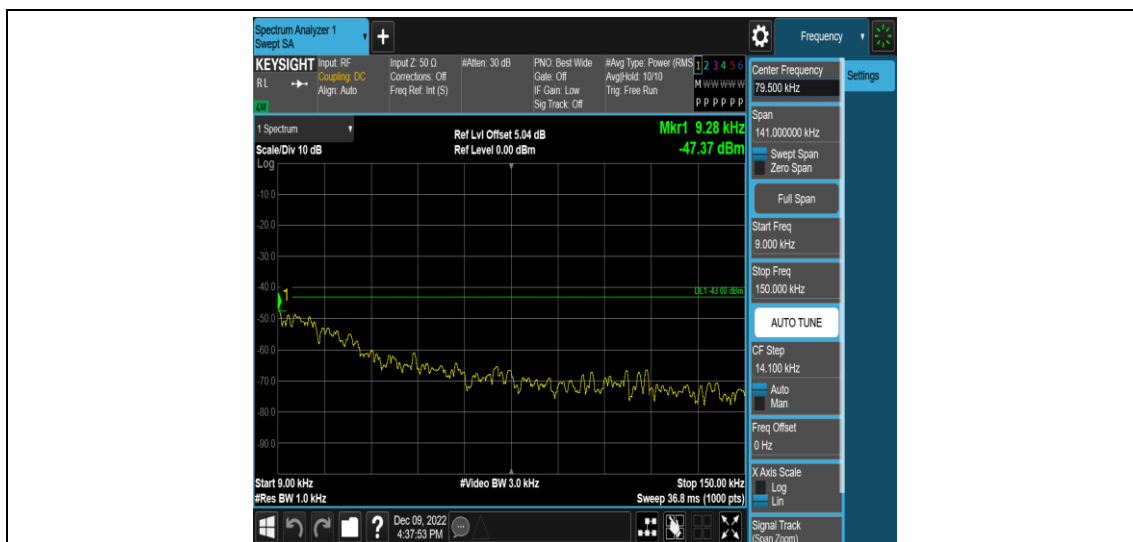
Band17-10MHz-QPSK-23790-1RB#0-Range3:30~1000MHz



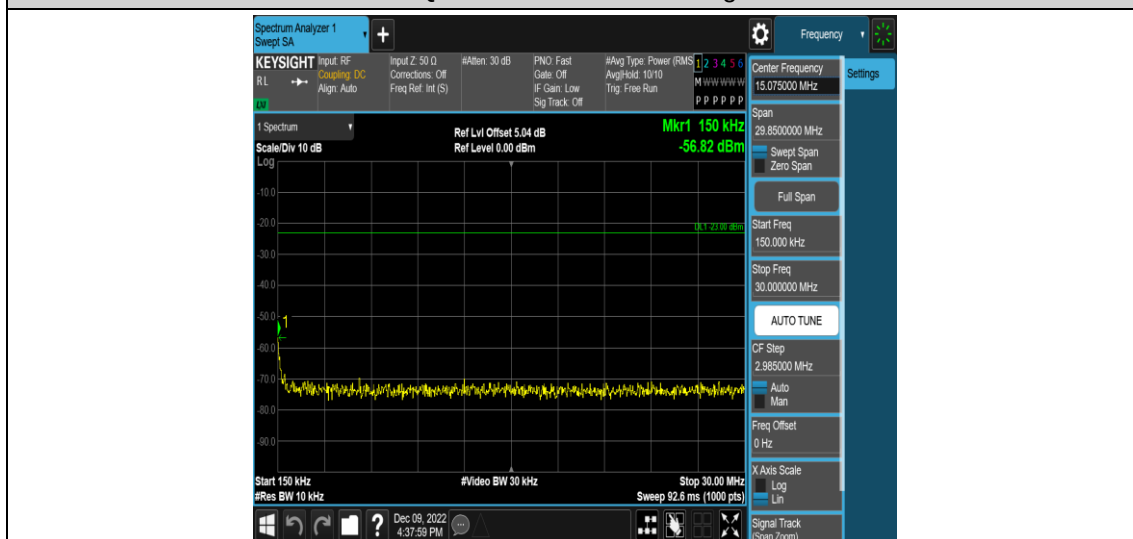
Band17-10MHz-QPSK-23790-1RB#0-Range4:1000~20000MHz



Band17-10MHz-QPSK-23800-1RB#0-Range1:0.009~0.15MHz



Band17-10MHz-QPSK-23800-1RB#0-Range2:0.15~30MHz



Band17-10MHz-QPSK-23800-1RB#0-Range3:30~1000MHz



Band17-10MHz-QPSK-23800-1RB#0-Range4:1000~20000MHz



Band17-10MHz-16QAM-23780-1RB#0-Range1:0.009~0.15MHz



Band17-10MHz-16QAM-23780-1RB#0-Range2:0.15~30MHz



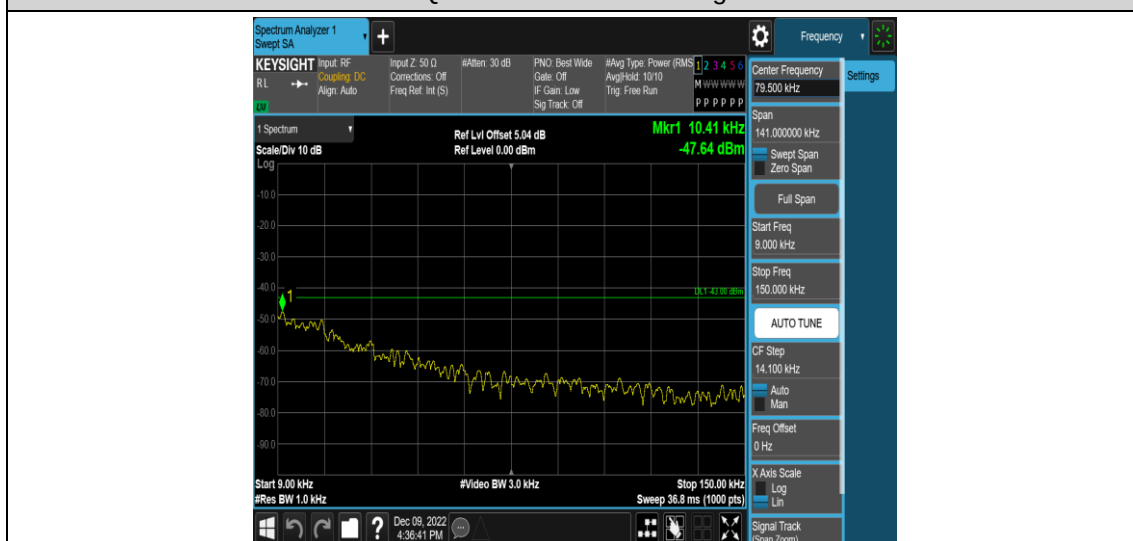
Band17-10MHz-16QAM-23780-1RB#0-Range3:30~1000MHz



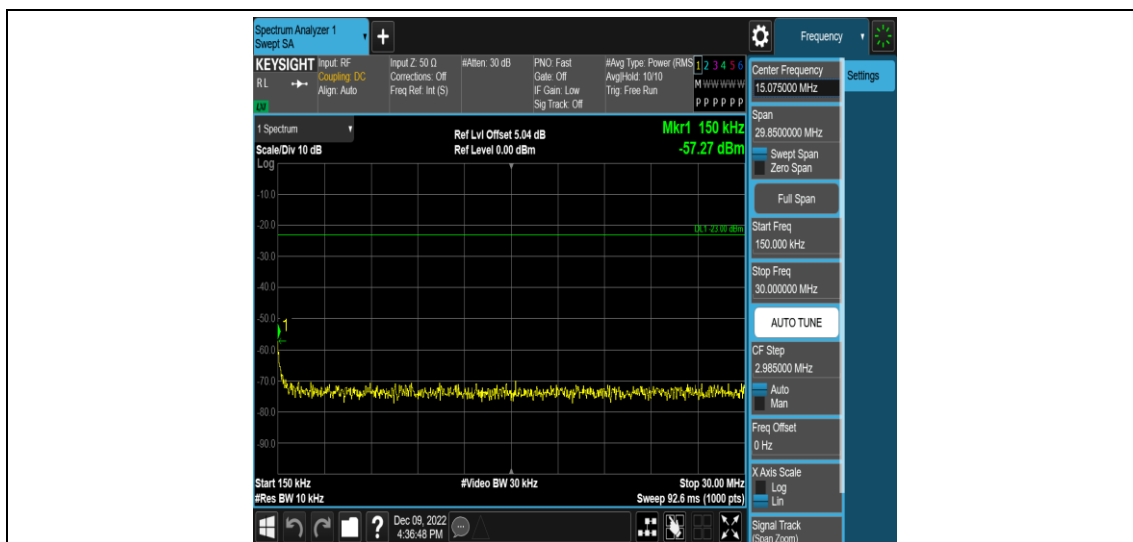
Band17-10MHz-16QAM-23780-1RB#0-Range4:1000~20000MHz



Band17-10MHz-16QAM-23790-1RB#0-Range1:0.009~0.15MHz



Band17-10MHz-16QAM-23790-1RB#0-Range2:0.15~30MHz



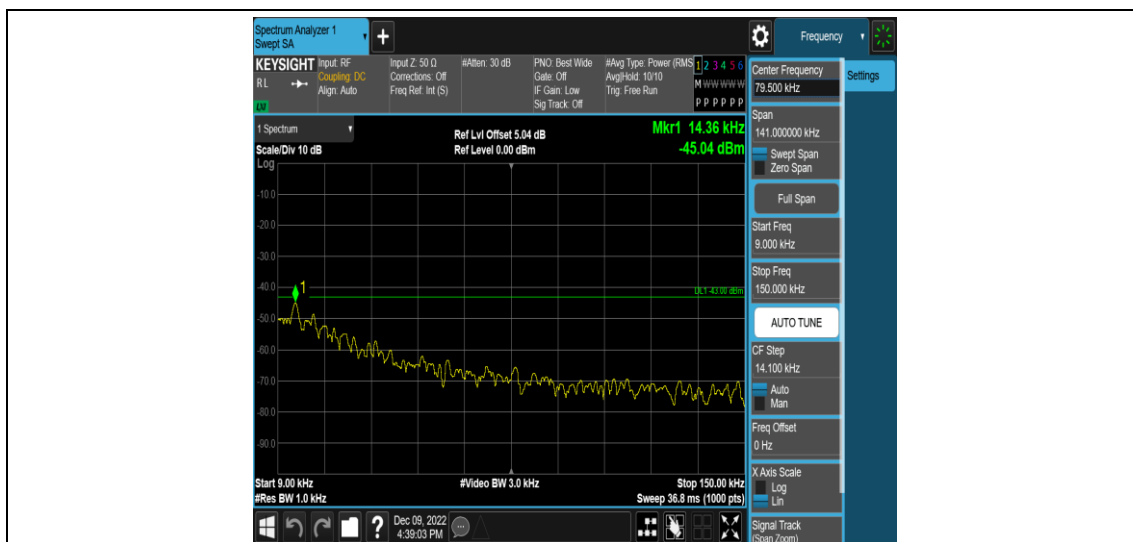
Band17-10MHz-16QAM-23790-1RB#0-Range3:30~1000MHz



Band17-10MHz-16QAM-23790-1RB#0-Range4:1000~20000MHz



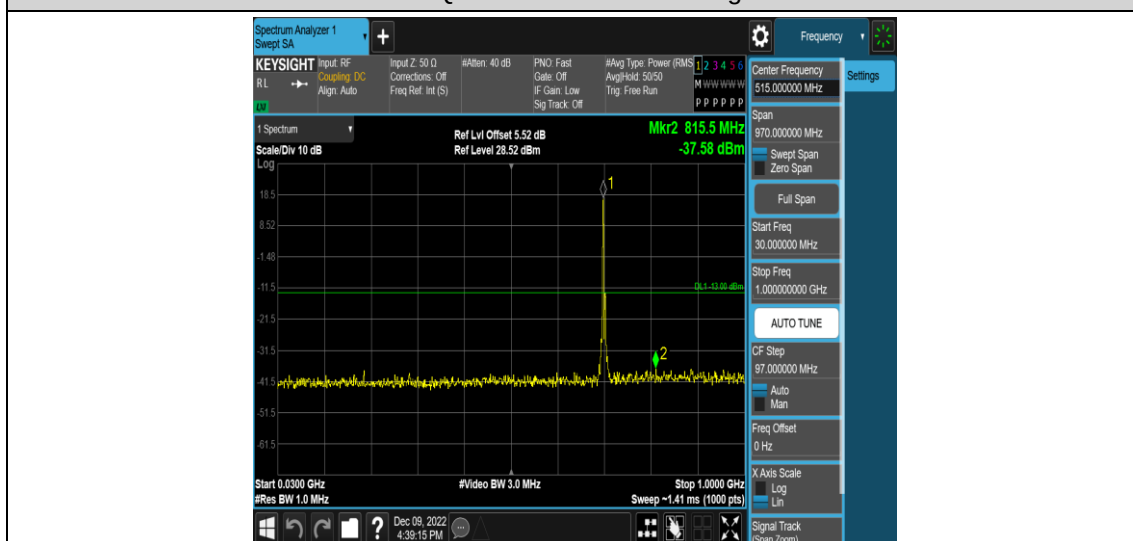
Band17-10MHz-16QAM-23800-1RB#0-Range1:0.009~0.15MHz



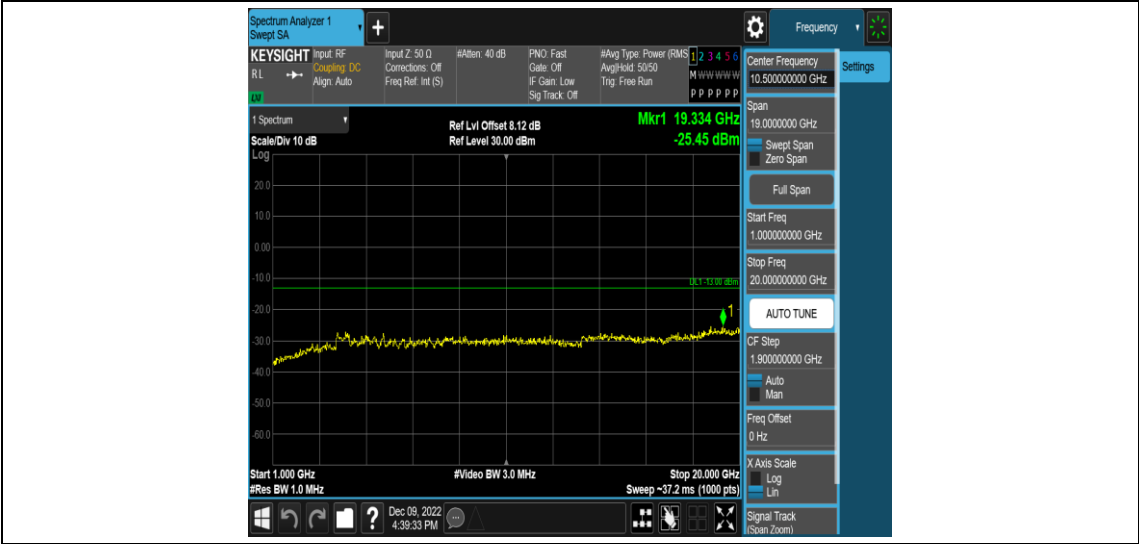
Band17-10MHz-16QAM-23800-1RB#0-Range2:0.15~30MHz



Band17-10MHz-16QAM-23800-1RB#0-Range3:30~1000MHz



Band17-10MHz-16QAM-23800-1RB#0-Range4:1000~20000MHz



Appendix F: Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Voltage		Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
					Voltage [Vdc]	Temperature (°C)				
Band1 7	5MHz	QPSK	23755	25RB#0	VL	NT	-2.22	-0.003142	±2.5	PASS
Band1 7	5MHz	QPSK	23755	25RB#0	VN	NT	-2.37	-0.003355	±2.5	PASS
Band1 7	5MHz	QPSK	23755	25RB#0	VH	NT	-6.09	-0.008620	±2.5	PASS
Band1 7	5MHz	QPSK	23790	25RB#0	VL	NT	-9.01	-0.012690	±2.5	PASS
Band1 7	5MHz	QPSK	23790	25RB#0	VN	NT	5.71	0.008042	±2.5	PASS
Band1 7	5MHz	QPSK	23790	25RB#0	VH	NT	-10.13	-0.014268	±2.5	PASS
Band1 7	5MHz	QPSK	23825	25RB#0	VL	NT	-4.18	-0.005858	±2.5	PASS
Band1 7	5MHz	QPSK	23825	25RB#0	VN	NT	-3.89	-0.005452	±2.5	PASS
Band1 7	5MHz	QPSK	23825	25RB#0	VH	NT	1.60	0.002242	±2.5	PASS
Band1 7	5MHz	16QAM	23755	25RB#0	VL	NT	2.30	0.003255	±2.5	PASS
Band1 7	5MHz	16QAM	23755	25RB#0	VN	NT	-4.69	-0.006638	±2.5	PASS
Band1 7	5MHz	16QAM	23755	25RB#0	VH	NT	-6.42	-0.009087	±2.5	PASS
Band1 7	5MHz	16QAM	23790	25RB#0	VL	NT	-8.21	-0.011563	±2.5	PASS
Band1 7	5MHz	16QAM	23790	25RB#0	VN	NT	-6.09	-0.008577	±2.5	PASS
Band1 7	5MHz	16QAM	23790	25RB#0	VH	NT	-4.91	-0.006915	±2.5	PASS
Band1 7	5MHz	16QAM	23825	25RB#0	VL	NT	-4.55	-0.006377	±2.5	PASS
Band1 7	5MHz	16QAM	23825	25RB#0	VN	NT	-8.08	-0.011324	±2.5	PASS

Band1 7	5MHz	16QAM	23825	25RB#0	VH	NT	-5.94	-0.008325	±2.5	PASS
Band1 7	10MHz	QPSK	23780	50RB#0	VL	NT	-3.73	-0.005261	±2.5	PASS
Band1 7	10MHz	QPSK	23780	50RB#0	VN	NT	-5.01	-0.007066	±2.5	PASS
Band1 7	10MHz	QPSK	23780	50RB#0	VH	NT	-2.89	-0.004076	±2.5	PASS
Band1 7	10MHz	QPSK	23790	50RB#0	VL	NT	-7.42	-0.010451	±2.5	PASS
Band1 7	10MHz	QPSK	23790	50RB#0	VN	NT	-3.12	-0.004394	±2.5	PASS
Band1 7	10MHz	QPSK	23790	50RB#0	VH	NT	-3.13	-0.004408	±2.5	PASS
Band1 7	10MHz	QPSK	23800	50RB#0	VL	NT	-6.39	-0.008987	±2.5	PASS
Band1 7	10MHz	QPSK	23800	50RB#0	VN	NT	-6.31	-0.008875	±2.5	PASS
Band1 7	10MHz	QPSK	23800	50RB#0	VH	NT	-4.21	-0.005921	±2.5	PASS
Band1 7	10MHz	16QAM	23780	50RB#0	VL	NT	-2.39	-0.003371	±2.5	PASS
Band1 7	10MHz	16QAM	23780	50RB#0	VN	NT	-9.83	-0.013865	±2.5	PASS
Band1 7	10MHz	16QAM	23780	50RB#0	VH	NT	1.62	0.002285	±2.5	PASS
Band1 7	10MHz	16QAM	23790	50RB#0	VL	NT	-5.81	-0.008183	±2.5	PASS
Band1 7	10MHz	16QAM	23790	50RB#0	VN	NT	-3.29	-0.004634	±2.5	PASS
Band1 7	10MHz	16QAM	23790	50RB#0	VH	NT	-2.62	-0.003690	±2.5	PASS
Band1 7	10MHz	16QAM	23800	50RB#0	VL	NT	-10.14	-0.014262	±2.5	PASS
Band1 7	10MHz	16QAM	23800	50RB#0	VN	NT	-7.28	-0.010239	±2.5	PASS
Band1 7	10MHz	16QAM	23800	50RB#0	VH	NT	-4.41	-0.006203	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict

Band1 7	5MHz	QPSK	23755	25RB#0	NV	-30	-6.95	-0.009837	±2.5	PASS
Band1 7	5MHz	QPSK	23755	25RB#0	NV	-20	-1.65	-0.002335	±2.5	PASS
Band1 7	5MHz	QPSK	23755	25RB#0	NV	0	1.43	0.002024	±2.5	PASS
Band1 7	5MHz	QPSK	23755	25RB#0	NV	10	-6.90	-0.009766	±2.5	PASS
Band1 7	5MHz	QPSK	23755	25RB#0	NV	20	-4.69	-0.006638	±2.5	PASS
Band1 7	5MHz	QPSK	23790	25RB#0	NV	-30	-9.18	-0.012930	±2.5	PASS
Band1 7	5MHz	QPSK	23790	25RB#0	NV	-20	-7.31	-0.010296	±2.5	PASS
Band1 7	5MHz	QPSK	23790	25RB#0	NV	0	-11.22	-0.015803	±2.5	PASS
Band1 7	5MHz	QPSK	23790	25RB#0	NV	10	-6.51	-0.009169	±2.5	PASS
Band1 7	5MHz	QPSK	23790	25RB#0	NV	20	-6.81	-0.009592	±2.5	PASS
Band1 7	5MHz	QPSK	23825	25RB#0	NV	-30	4.68	0.006559	±2.5	PASS
Band1 7	5MHz	QPSK	23825	25RB#0	NV	-20	1.73	0.002425	±2.5	PASS
Band1 7	5MHz	QPSK	23825	25RB#0	NV	0	-1.95	-0.002733	±2.5	PASS
Band1 7	5MHz	QPSK	23825	25RB#0	NV	10	1.10	0.001542	±2.5	PASS
Band1 7	5MHz	QPSK	23825	25RB#0	NV	20	-1.92	-0.002691	±2.5	PASS
Band1 7	5MHz	16QAM	23755	25RB#0	NV	-30	-7.74	-0.010955	±2.5	PASS
Band1 7	5MHz	16QAM	23755	25RB#0	NV	-20	-8.98	-0.012711	±2.5	PASS
Band1 7	5MHz	16QAM	23755	25RB#0	NV	0	-7.35	-0.010403	±2.5	PASS
Band1 7	5MHz	16QAM	23755	25RB#0	NV	10	-8.13	-0.011507	±2.5	PASS
Band1 7	5MHz	16QAM	23755	25RB#0	NV	20	-4.92	-0.006964	±2.5	PASS
Band1 7	5MHz	16QAM	23790	25RB#0	NV	-30	-5.84	-0.008225	±2.5	PASS

Band1 7	5MHz	16QAM	23790	25RB#0	NV	-20	-5.44	-0.007662	±2.5	PASS
Band1 7	5MHz	16QAM	23790	25RB#0	NV	0	-8.08	-0.011380	±2.5	PASS
Band1 7	5MHz	16QAM	23790	25RB#0	NV	10	-6.34	-0.008930	±2.5	PASS
Band1 7	5MHz	16QAM	23790	25RB#0	NV	20	-3.92	-0.005521	±2.5	PASS
Band1 7	5MHz	16QAM	23825	25RB#0	NV	-30	-6.35	-0.008900	±2.5	PASS
Band1 7	5MHz	16QAM	23825	25RB#0	NV	-20	-5.52	-0.007737	±2.5	PASS
Band1 7	5MHz	16QAM	23825	25RB#0	NV	0	-5.66	-0.007933	±2.5	PASS
Band1 7	5MHz	16QAM	23825	25RB#0	NV	10	-5.29	-0.007414	±2.5	PASS
Band1 7	5MHz	16QAM	23825	25RB#0	NV	20	-7.60	-0.010652	±2.5	PASS
Band1 7	10MHz	QPSK	23780	50RB#0	NV	-30	-3.93	-0.005543	±2.5	PASS
Band1 7	10MHz	QPSK	23780	50RB#0	NV	-20	-4.61	-0.006502	±2.5	PASS
Band1 7	10MHz	QPSK	23780	50RB#0	NV	0	-5.12	-0.007221	±2.5	PASS
Band1 7	10MHz	QPSK	23780	50RB#0	NV	10	-10.20	-0.014386	±2.5	PASS
Band1 7	10MHz	QPSK	23780	50RB#0	NV	20	-5.64	-0.007955	±2.5	PASS
Band1 7	10MHz	QPSK	23790	50RB#0	NV	-30	-8.10	-0.011408	±2.5	PASS
Band1 7	10MHz	QPSK	23790	50RB#0	NV	-20	-6.19	-0.008718	±2.5	PASS
Band1 7	10MHz	QPSK	23790	50RB#0	NV	0	-8.50	-0.011972	±2.5	PASS
Band1 7	10MHz	QPSK	23790	50RB#0	NV	10	-7.44	-0.010479	±2.5	PASS
Band1 7	10MHz	QPSK	23790	50RB#0	NV	20	-7.78	-0.010958	±2.5	PASS
Band1 7	10MHz	QPSK	23800	50RB#0	NV	-30	-4.09	-0.005752	±2.5	PASS
Band1 7	10MHz	QPSK	23800	50RB#0	NV	-20	-6.07	-0.008537	±2.5	PASS

Band1 7	10MHz	QPSK	23800	50RB#0	NV	0	-3.86	-0.005429	±2.5	PASS
Band1 7	10MHz	QPSK	23800	50RB#0	NV	10	-4.51	-0.006343	±2.5	PASS
Band1 7	10MHz	QPSK	23800	50RB#0	NV	20	-6.42	-0.009030	±2.5	PASS
Band1 7	10MHz	16QAM	23780	50RB#0	NV	-30	-2.45	-0.003456	±2.5	PASS
Band1 7	10MHz	16QAM	23780	50RB#0	NV	-20	-1.92	-0.002708	±2.5	PASS
Band1 7	10MHz	16QAM	23780	50RB#0	NV	0	-5.32	-0.007504	±2.5	PASS
Band1 7	10MHz	16QAM	23780	50RB#0	NV	10	-3.26	-0.004598	±2.5	PASS
Band1 7	10MHz	16QAM	23780	50RB#0	NV	20	-3.46	-0.004880	±2.5	PASS
Band1 7	10MHz	16QAM	23790	50RB#0	NV	-30	-5.05	-0.007113	±2.5	PASS
Band1 7	10MHz	16QAM	23790	50RB#0	NV	-20	-3.83	-0.005394	±2.5	PASS
Band1 7	10MHz	16QAM	23790	50RB#0	NV	0	-7.15	-0.010070	±2.5	PASS
Band1 7	10MHz	16QAM	23790	50RB#0	NV	10	-3.86	-0.005437	±2.5	PASS
Band1 7	10MHz	16QAM	23790	50RB#0	NV	20	-4.35	-0.006127	±2.5	PASS
Band1 7	10MHz	16QAM	23800	50RB#0	NV	-30	-4.59	-0.006456	±2.5	PASS
Band1 7	10MHz	16QAM	23800	50RB#0	NV	-20	-5.89	-0.008284	±2.5	PASS
Band1 7	10MHz	16QAM	23800	50RB#0	NV	0	-4.96	-0.006976	±2.5	PASS
Band1 7	10MHz	16QAM	23800	50RB#0	NV	10	-6.81	-0.009578	±2.5	PASS
Band1 7	10MHz	16QAM	23800	50RB#0	NV	20	-11.07	-0.015570	±2.5	PASS