

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	Range4:1000~10000MHz	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	Range4:1000~10000MHz	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	Range4:1000~10000MHz	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	Range4:1000~10000MHz	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	Range4:1000~10000MHz	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	Range4:1000~10000MHz	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	Range4:1000~10000MHz	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	Range4:1000~10000MHz	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	Range4:1000~10000MHz	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	Range4:1000~10000MHz	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	Range4:1000~10000MHz	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	Range4:1000~10000MHz	PASS

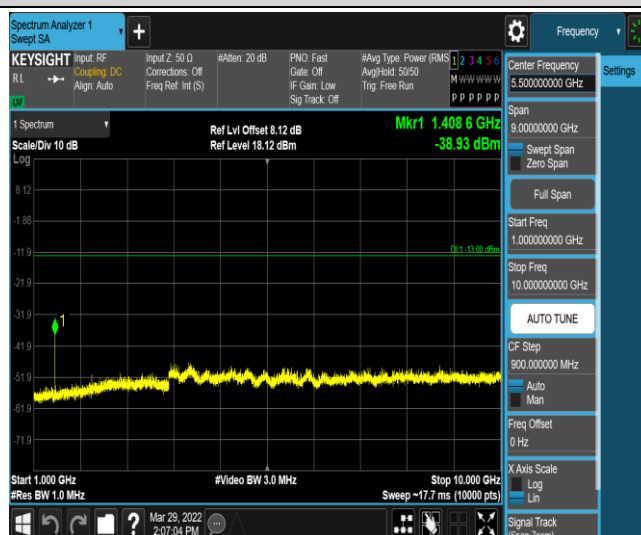
Test Graphs



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



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



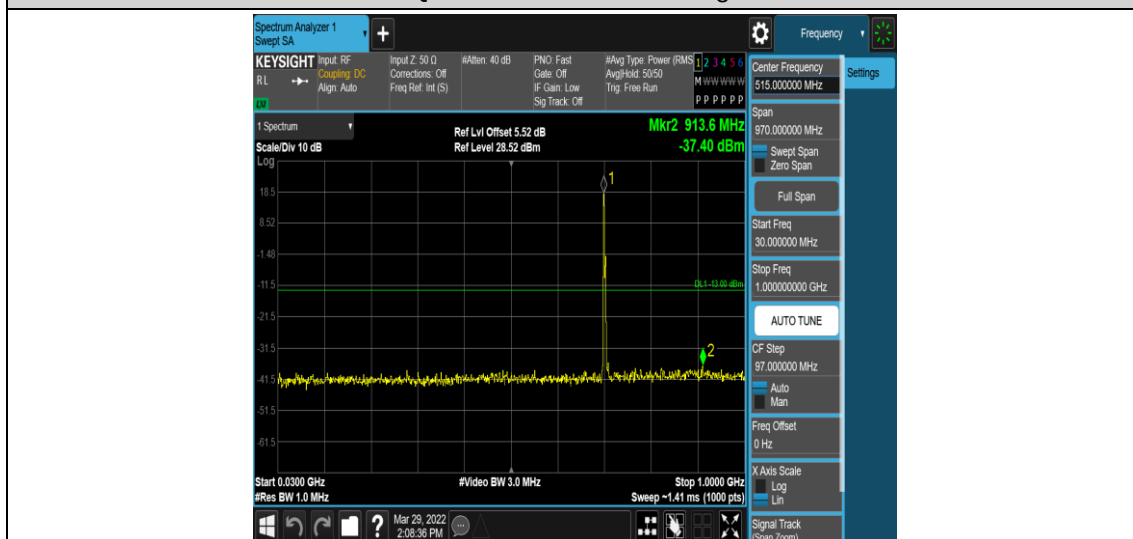
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Band17-5MHz-QPSK-23790-1RB#0-Range1:0.009~0.15MHz



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-Range4:1000~10000MHz



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



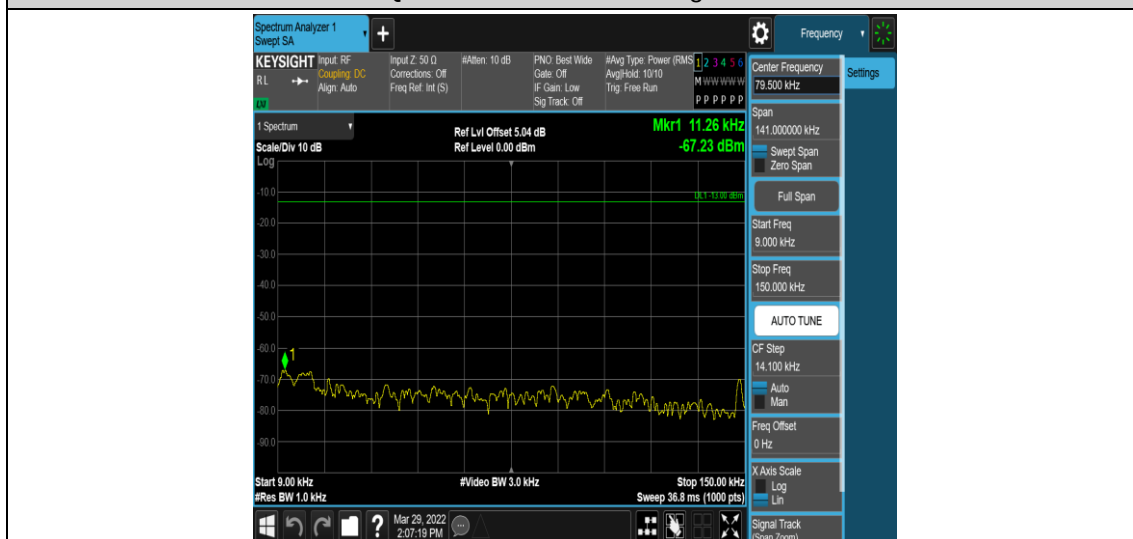
Band17-5MHz-QPSK-23825-1RB#0-Range2:0.15~30MHz



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



Band17-5MHz-QPSK-23825-1RB#0-Range4:1000~10000MHz



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



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



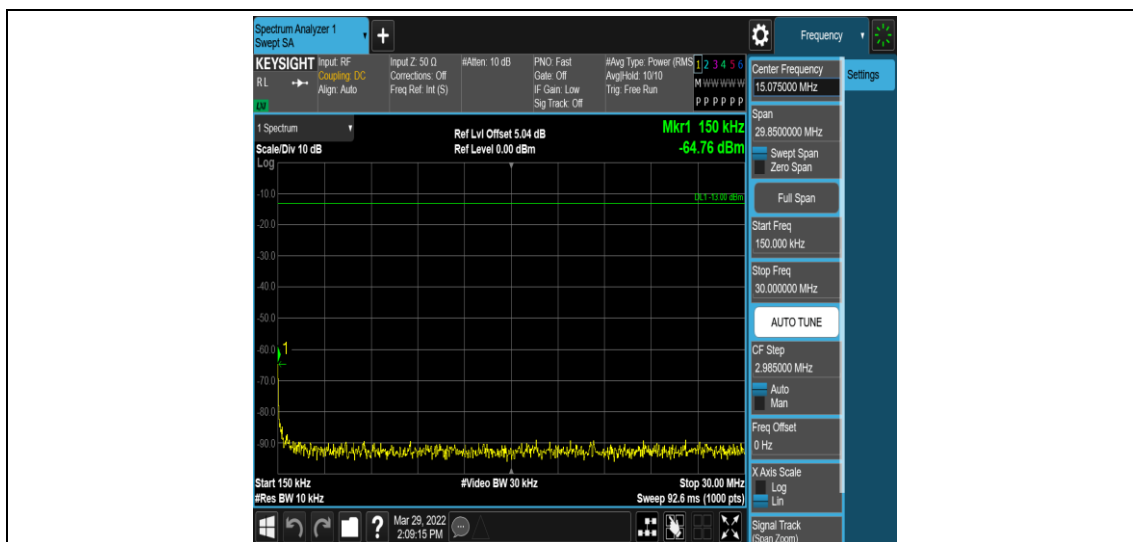
Band17-5MHz-16QAM-23755-1RB#0-Range3:30~1000MHz



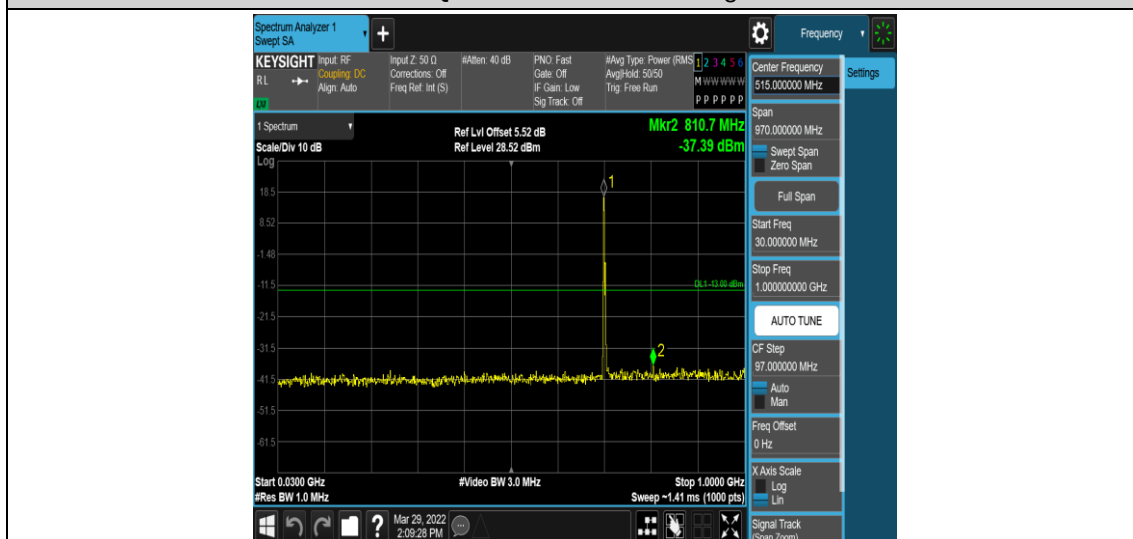
Band17-5MHz-16QAM-23755-1RB#0-Range4:1000~10000MHz



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



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



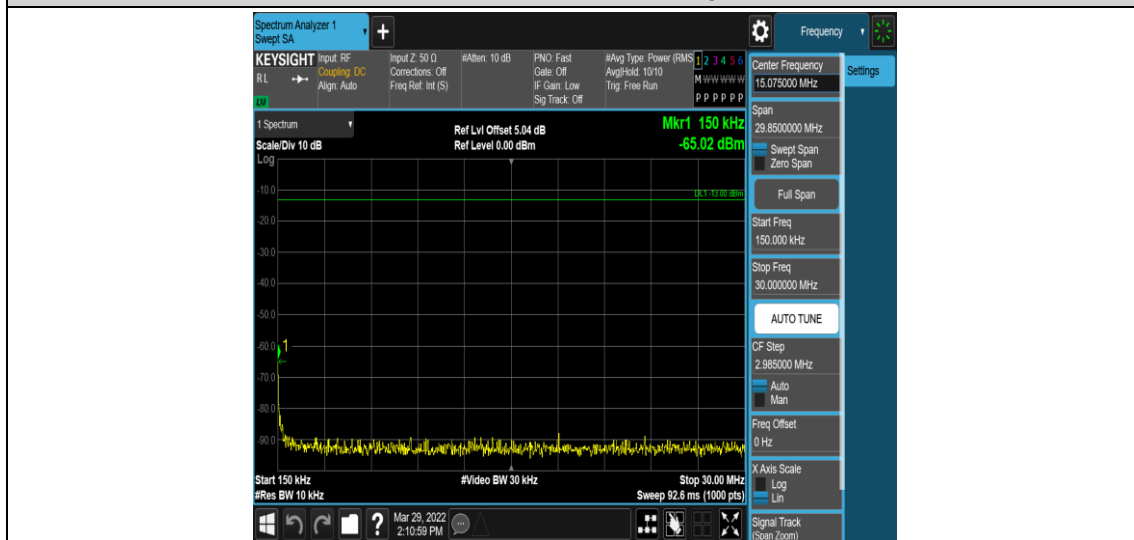
Band17-5MHz-16QAM-23790-1RB#0-Range3:30~1000MHz



Band17-5MHz-16QAM-23790-1RB#0-Range4:1000~10000MHz



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



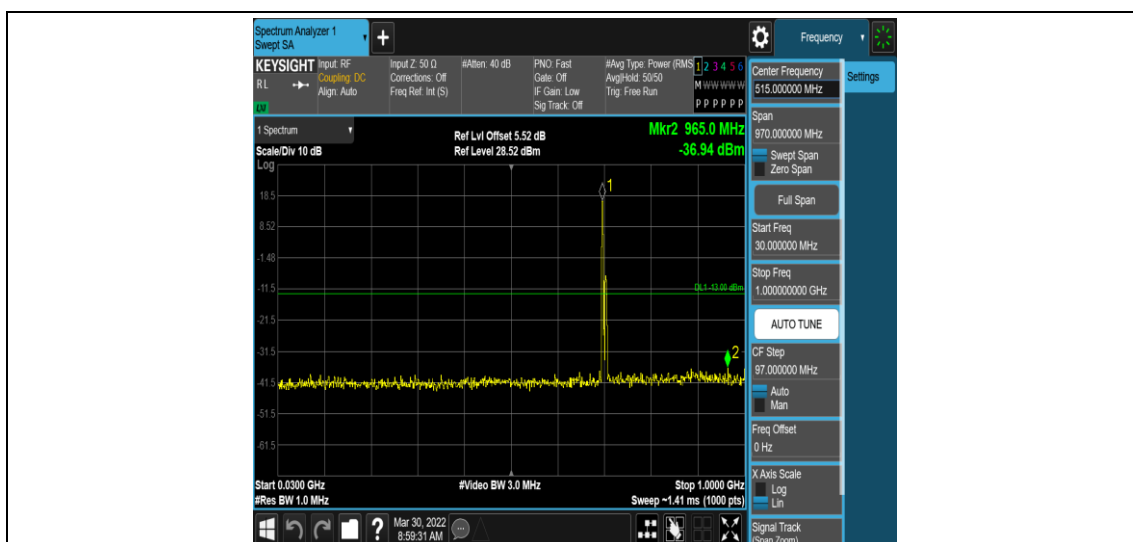
Band17-5MHz-16QAM-23825-1RB#0-Range4:1000~10000MHz



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



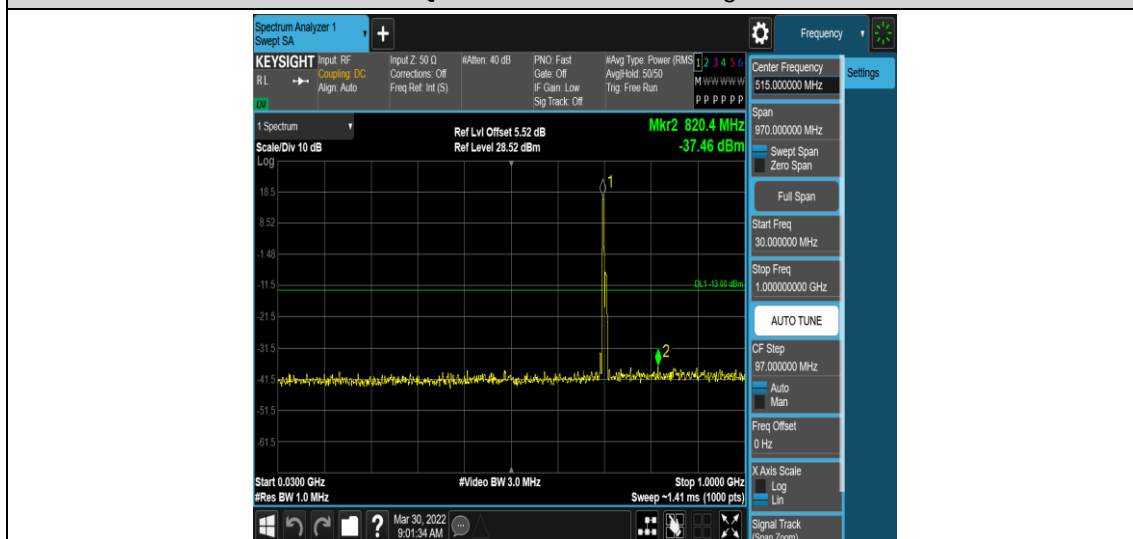
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Band17-10MHz-QPSK-23790-1RB#0-Range1:0.009~0.15MHz



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-Range4:1000~10000MHz



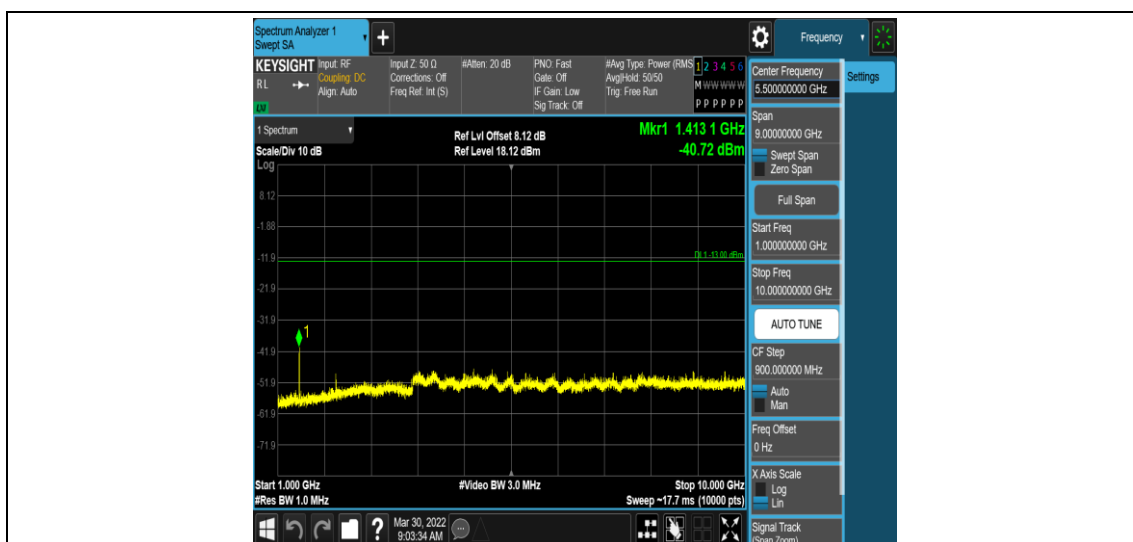
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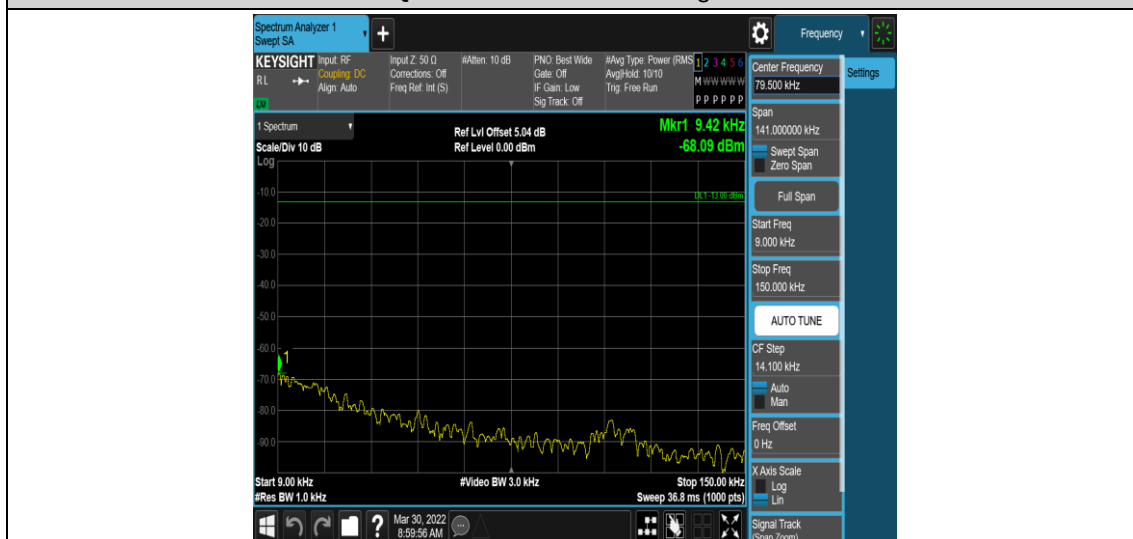
Band17-10MHz-QPSK-23800-1RB#0-Range2:0.15~30MHz



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



Band17-10MHz-QPSK-23800-1RB#0-Range4:1000~10000MHz



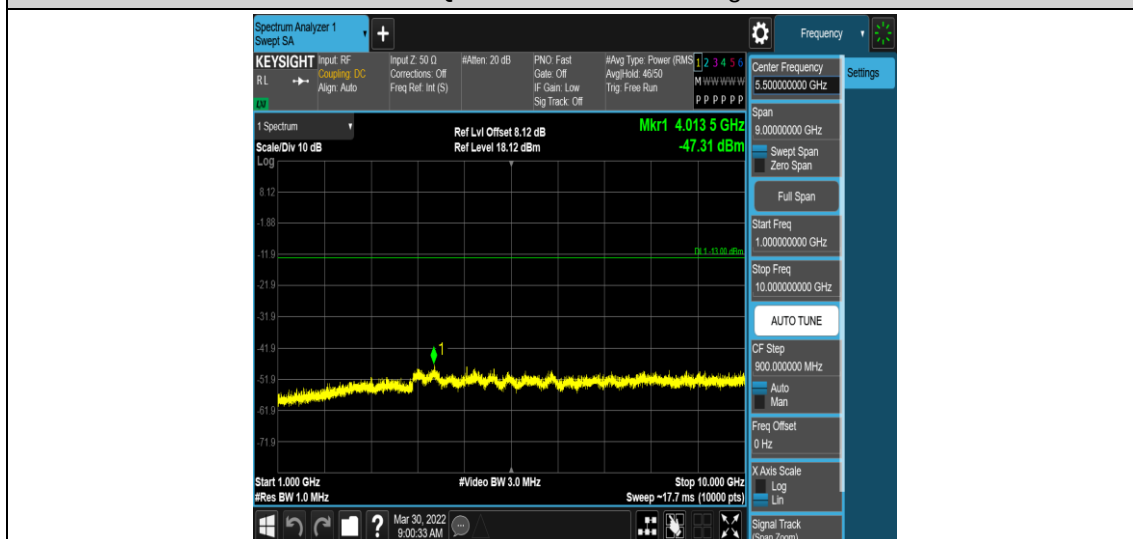
Band17-10MHz-16QAM-23780-1RB#0-Range1:0.009~0.15MHz



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-Range4:1000~10000MHz



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



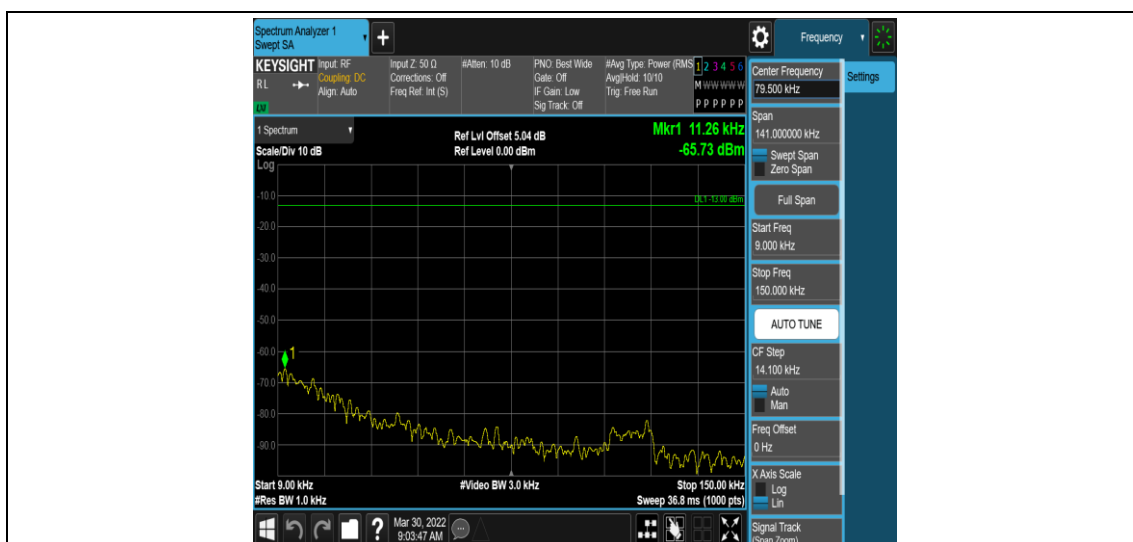
Band17-10MHz-16QAM-23790-1RB#0-Range2:0.15~30MHz



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



Band17-10MHz-16QAM-23790-1RB#0-Range4:1000~10000MHz



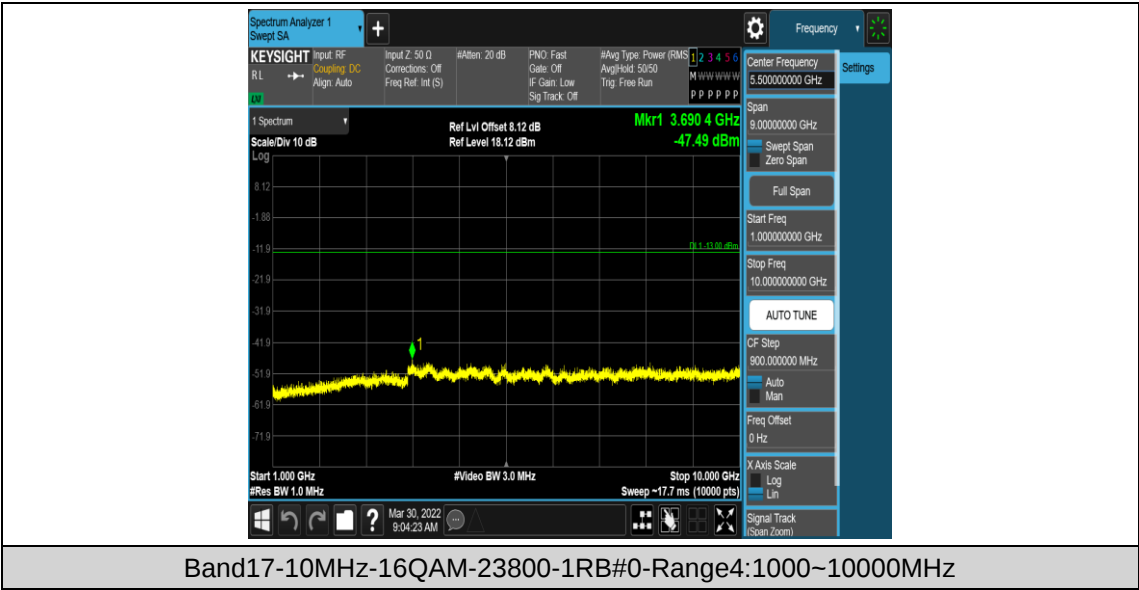
Band17-10MHz-16QAM-23800-1RB#0-Range1:0.009~0.15MHz



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



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



Appendix F: Frequency Stability

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	VL	NT	2.80	0.003963	±2.5	PASS
Band17	5MHz	QPSK	23755	25RB#0	VN	NT	-3.63	-0.005138	±2.5	PASS
Band17	5MHz	QPSK	23755	25RB#0	VH	NT	-2.55	-0.003609	±2.5	PASS
Band17	5MHz	QPSK	23790	25RB#0	VL	NT	-2.53	-0.003563	±2.5	PASS
Band17	5MHz	QPSK	23790	25RB#0	VN	NT	-9.26	-0.013042	±2.5	PASS
Band17	5MHz	QPSK	23790	25RB#0	VH	NT	-2.66	-0.003746	±2.5	PASS
Band17	5MHz	QPSK	23825	25RB#0	VL	NT	-4.21	-0.005900	±2.5	PASS
Band17	5MHz	QPSK	23825	25RB#0	VN	NT	-7.34	-0.010287	±2.5	PASS
Band17	5MHz	QPSK	23825	25RB#0	VH	NT	-3.32	-0.004653	±2.5	PASS
Band17	5MHz	16QAM	23755	25RB#0	VL	NT	2.33	0.003298	±2.5	PASS
Band17	5MHz	16QAM	23755	25RB#0	VN	NT	-2.03	-0.002873	±2.5	PASS
Band17	5MHz	16QAM	23755	25RB#0	VH	NT	-2.72	-0.003850	±2.5	PASS
Band17	5MHz	16QAM	23790	25RB#0	VL	NT	-3.91	-0.005507	±2.5	PASS
Band17	5MHz	16QAM	23790	25RB#0	VN	NT	-3.40	-0.004789	±2.5	PASS
Band17	5MHz	16QAM	23790	25RB#0	VH	NT	-3.30	-0.004648	±2.5	PASS
Band17	5MHz	16QAM	23825	25RB#0	VL	NT	-1.62	-0.002270	±2.5	PASS
Band17	5MHz	16QAM	23825	25RB#0	VN	NT	-2.10	-0.002943	±2.5	PASS
Band17	5MHz	16QAM	23825	25RB#0	VH	NT	-2.89	-0.004050	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	VL	NT	-7.82	-0.011030	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	VN	NT	-9.03	-0.012736	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	VH	NT	-8.93	-0.012595	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	VL	NT	0.00	0.000000	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	VN	NT	0.00	0.000000	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	NV	-30	-2.93	-0.004147	±2.5	PASS
Band17	5MHz	QPSK	23755	25RB#0	NV	-20	-2.12	-0.003001	±2.5	PASS
Band17	5MHz	QPSK	23755	25RB#0	NV	0	-2.00	-0.002	±2.5	PASS

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Band17	5MHz	QPSK	23755	25RB#0	NV	10	1.42	0.0020 10	±2.5	PASS
Band17	5MHz	QPSK	23755	25RB#0	NV	20	-2.40	-0.003 397	±2.5	PASS
Band17	5MHz	QPSK	23790	25RB#0	NV	-30	-1.97	-0.002 775	±2.5	PASS
Band17	5MHz	QPSK	23790	25RB#0	NV	-20	-2.02	-0.002 845	±2.5	PASS
Band17	5MHz	QPSK	23790	25RB#0	NV	0	-2.35	-0.003 310	±2.5	PASS
Band17	5MHz	QPSK	23790	25RB#0	NV	10	2.56	0.0036 06	±2.5	PASS
Band17	5MHz	QPSK	23790	25RB#0	NV	20	-3.60	-0.005 070	±2.5	PASS
Band17	5MHz	QPSK	23825	25RB#0	NV	-30	-2.07	-0.002 901	±2.5	PASS
Band17	5MHz	QPSK	23825	25RB#0	NV	-20	-2.40	-0.003 364	±2.5	PASS
Band17	5MHz	QPSK	23825	25RB#0	NV	0	-3.33	-0.004 667	±2.5	PASS
Band17	5MHz	QPSK	23825	25RB#0	NV	10	-2.05	-0.002 873	±2.5	PASS
Band17	5MHz	QPSK	23825	25RB#0	NV	20	-2.32	-0.003 252	±2.5	PASS
Band17	5MHz	16QAM	23755	25RB#0	NV	-30	1.30	0.0018 40	±2.5	PASS
Band17	5MHz	16QAM	23755	25RB#0	NV	-20	-1.92	-0.002 718	±2.5	PASS
Band17	5MHz	16QAM	23755	25RB#0	NV	0	-2.85	-0.004 034	±2.5	PASS
Band17	5MHz	16QAM	23755	25RB#0	NV	10	-3.05	-0.004 317	±2.5	PASS
Band17	5MHz	16QAM	23755	25RB#0	NV	20	-2.03	-0.002 873	±2.5	PASS
Band17	5MHz	16QAM	23790	25RB#0	NV	-30	-2.40	-0.003 380	±2.5	PASS
Band17	5MHz	16QAM	23790	25RB#0	NV	-20	-3.02	-0.004 254	±2.5	PASS
Band17	5MHz	16QAM	23790	25RB#0	NV	0	-2.89	-0.004 070	±2.5	PASS
Band17	5MHz	16QAM	23790	25RB#0	NV	10	-18.80	-0.026	±2.5	PASS

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Band17	5MHz	16QAM	23790	25RB#0	NV	20	-2.83	-0.003 986	±2.5	PASS
Band17	5MHz	16QAM	23825	25RB#0	NV	-30	-3.79	-0.005 312	±2.5	PASS
Band17	5MHz	16QAM	23825	25RB#0	NV	-20	1.97	0.0027 61	±2.5	PASS
Band17	5MHz	16QAM	23825	25RB#0	NV	0	-3.03	-0.004 247	±2.5	PASS
Band17	5MHz	16QAM	23825	25RB#0	NV	10	1.90	0.0026 63	±2.5	PASS
Band17	5MHz	16QAM	23825	25RB#0	NV	20	-1.82	-0.002 551	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	-30	-9.50	-0.013 399	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	-20	-8.01	-0.011 298	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	0	-8.33	-0.011 749	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	10	-9.48	-0.013 371	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	20	-7.84	-0.011 058	±2.5	PASS