

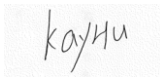


Appendix H: Test Data for E-UTRA Band 17

Product Name: Tigapo Cards vending machine

Test Model: LKS8500 series

Environmental Conditions

Temperature:	22.2℃
Relative Humidity:	53.5%
ATM Pressure:	100.0 kPa
Test Engineer:	
	Kay Hu
Supervised by:	
	Li Huan



H.1 Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	Result(dBm)	Verdict
Band17	5MHz	QPSK	23755	20.90	PASS
Band17	5MHz	QPSK	23790	21.10	PASS
Band17	5MHz	QPSK	23825	20.99	PASS
Band17	5MHz	16QAM	23755	20.18	PASS
Band17	5MHz	16QAM	23790	20.21	PASS
Band17	5MHz	16QAM	23825	20.32	PASS
Band17	10MHz	QPSK	23780	21.85	PASS
Band17	10MHz	QPSK	23790	21.83	PASS
Band17	10MHz	QPSK	23800	21.99	PASS
Band17	10MHz	16QAM	23780	20.06	PASS
Band17	10MHz	16QAM	23790	20.17	PASS
Band17	10MHz	16QAM	23800	20.15	PASS



H.2 Peak-to-Average Ratio(CCDF)

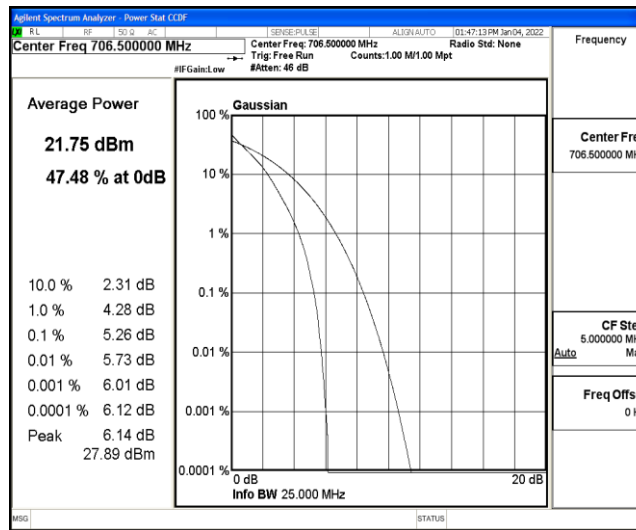
Test Result

Band	Bandwidth	Modulation	Channel	Result(dB)	Limit(dB)	Verdict
Band17	5MHz	QPSK	23755	5.26	13	PASS
Band17	5MHz	QPSK	23790	5.13	13	PASS
Band17	5MHz	QPSK	23825	5.03	13	PASS
Band17	5MHz	16QAM	23755	5.92	13	PASS
Band17	5MHz	16QAM	23790	5.84	13	PASS
Band17	5MHz	16QAM	23825	5.76	13	PASS
Band17	10MHz	QPSK	23780	5.24	13	PASS
Band17	10MHz	QPSK	23790	5.21	13	PASS
Band17	10MHz	QPSK	23800	5.20	13	PASS
Band17	10MHz	16QAM	23780	5.99	13	PASS
Band17	10MHz	16QAM	23790	5.93	13	PASS
Band17	10MHz	16QAM	23800	5.92	13	PASS

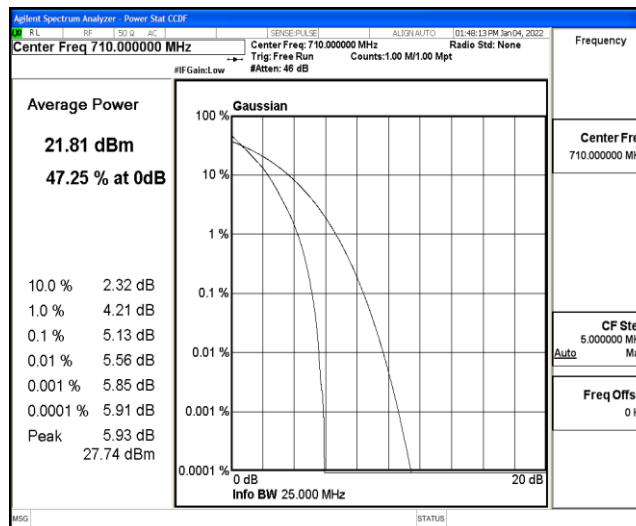


Test Graphs

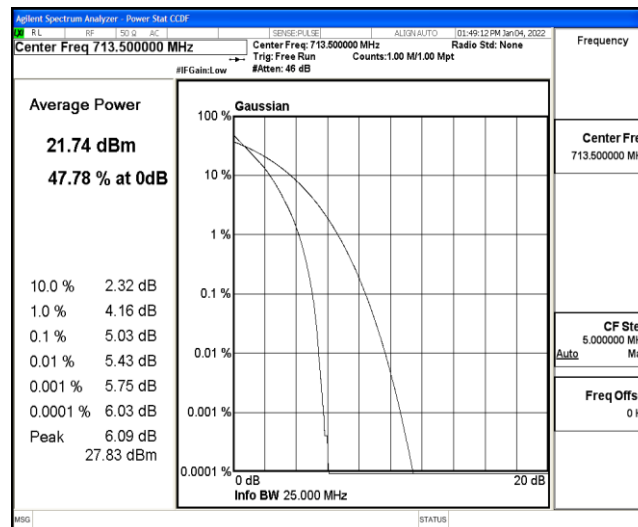
Band17-5MHz-QPSK-23755



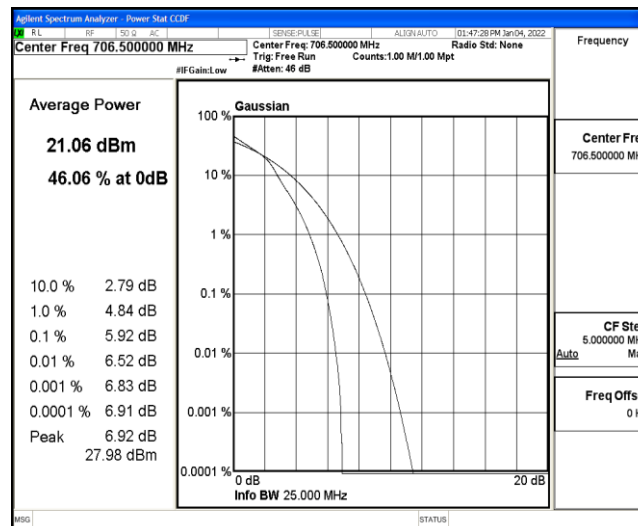
Band17-5MHz-QPSK-23790



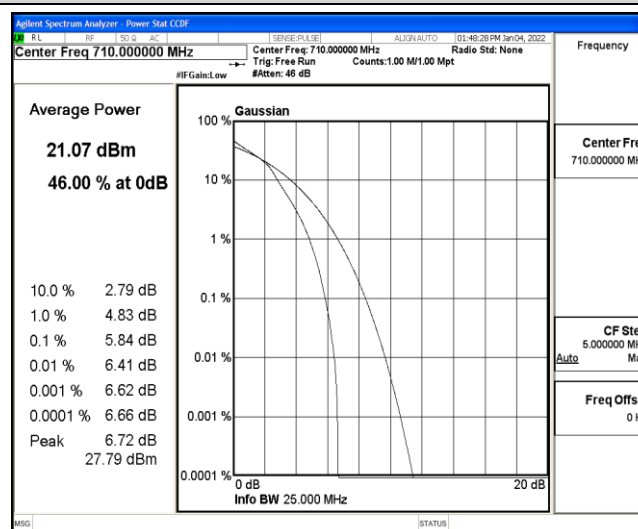
Band17-5MHz-QPSK-23825



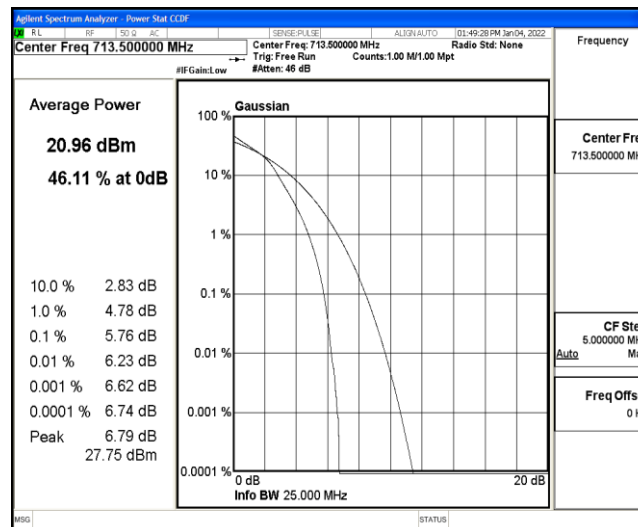
Band17-5MHz-16QAM-23755



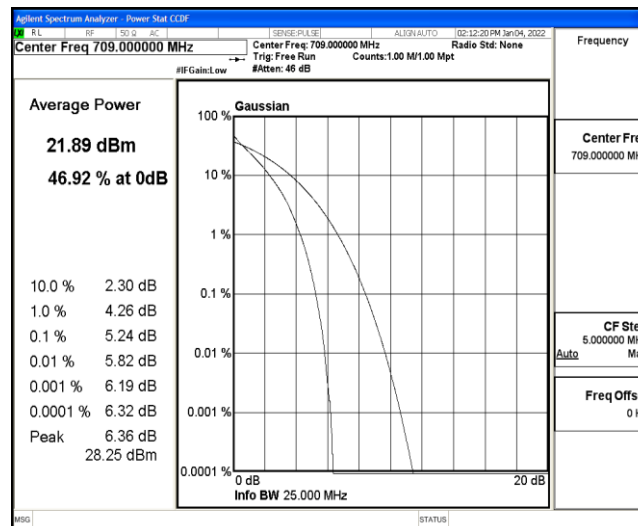
Band17-5MHz-16QAM-23790



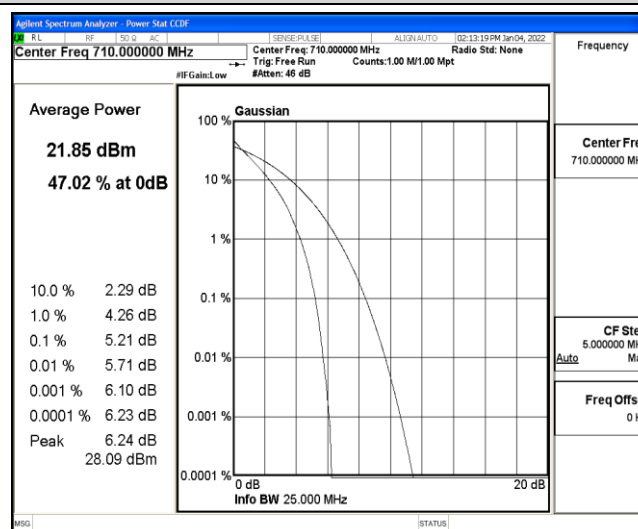
Band17-5MHz-16QAM-23825



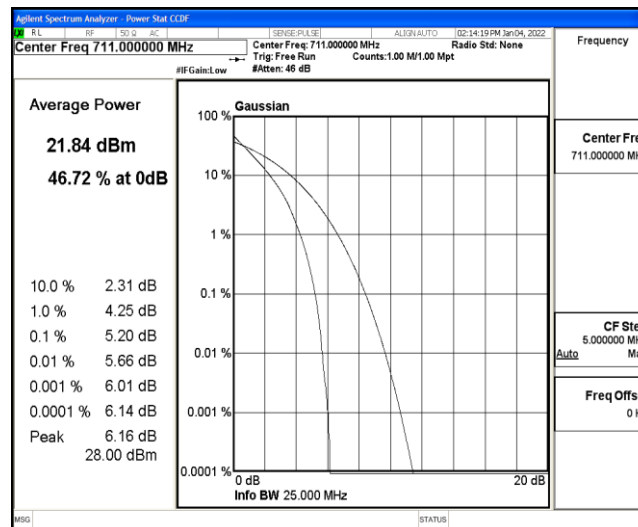
Band17-10MHz-QPSK-23780



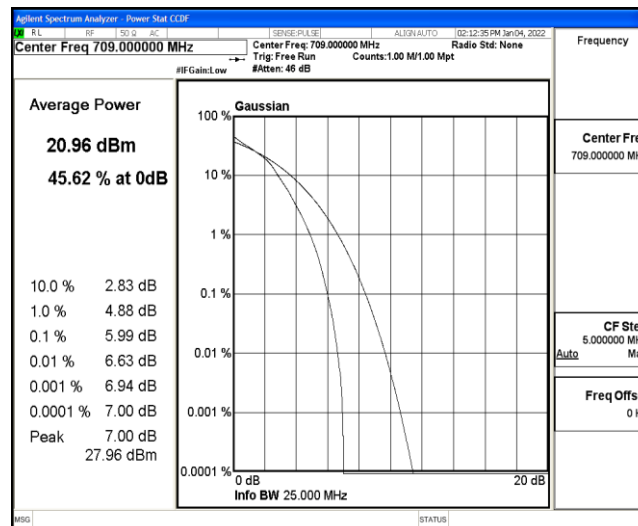
Band17-10MHz-QPSK-23790



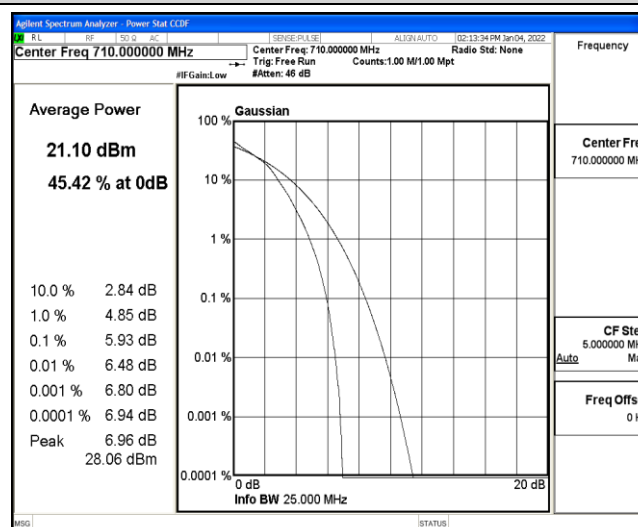
Band17-10MHz-QPSK-23800



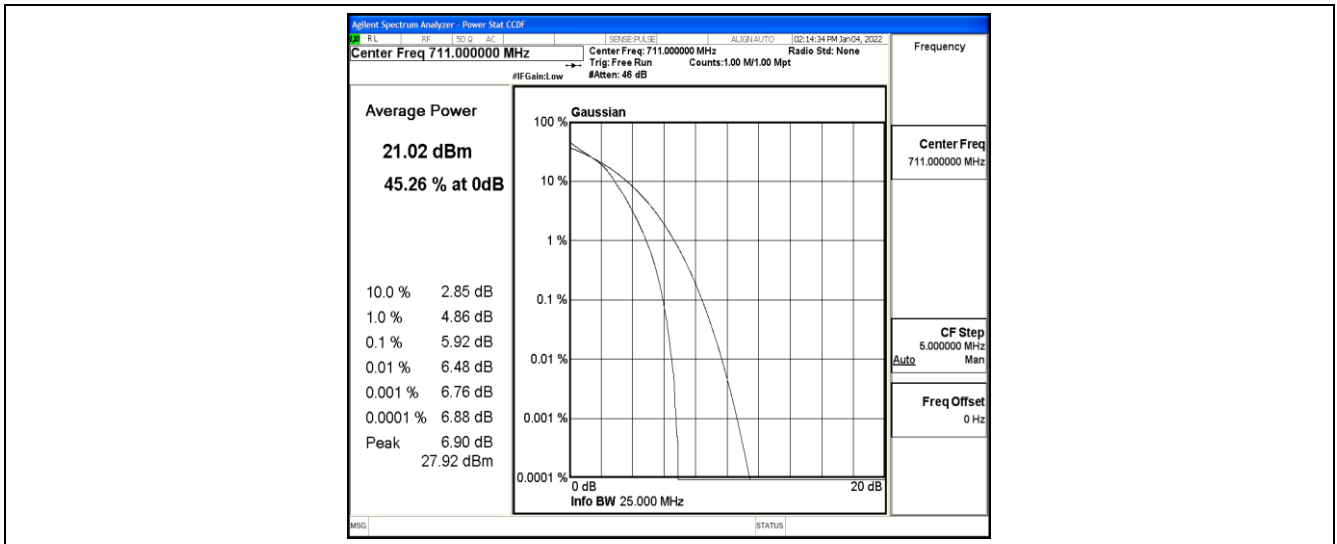
Band17-10MHz-16QAM-23780



Band17-10MHz-16QAM-23790



Band17-10MHz-16QAM-23800





H.3 26dB Bandwidth and Occupied Bandwidth

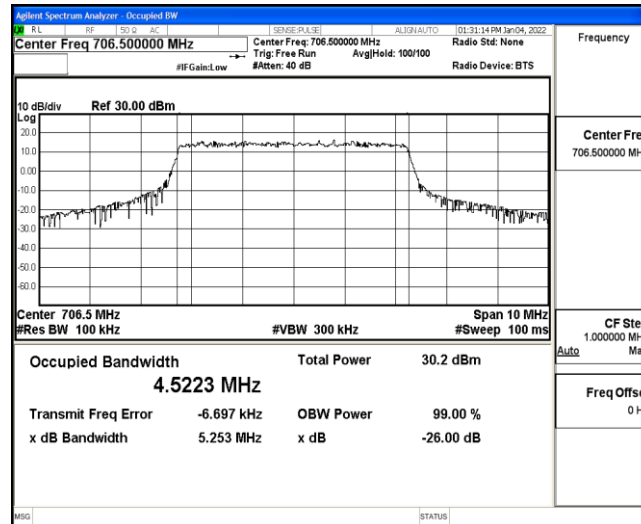
Test Result

Band	Bandwidth	Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band17	5MHz	QPSK	23755	4.5223	5.253	PASS
Band17	5MHz	QPSK	23790	4.5189	5.409	PASS
Band17	5MHz	QPSK	23825	4.5222	5.135	PASS
Band17	5MHz	16QAM	23755	4.5256	5.250	PASS
Band17	5MHz	16QAM	23790	4.5297	5.303	PASS
Band17	5MHz	16QAM	23825	4.5425	5.570	PASS
Band17	10MHz	QPSK	23780	9.0035	10.11	PASS
Band17	10MHz	QPSK	23790	9.0115	10.15	PASS
Band17	10MHz	QPSK	23800	8.9873	10.24	PASS
Band17	10MHz	16QAM	23780	9.0163	9.994	PASS
Band17	10MHz	16QAM	23790	9.0070	10.49	PASS
Band17	10MHz	16QAM	23800	9.0179	10.08	PASS

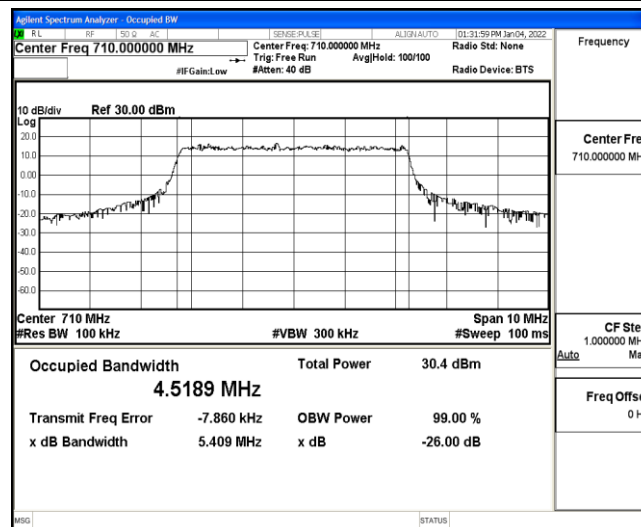


Test Graphs

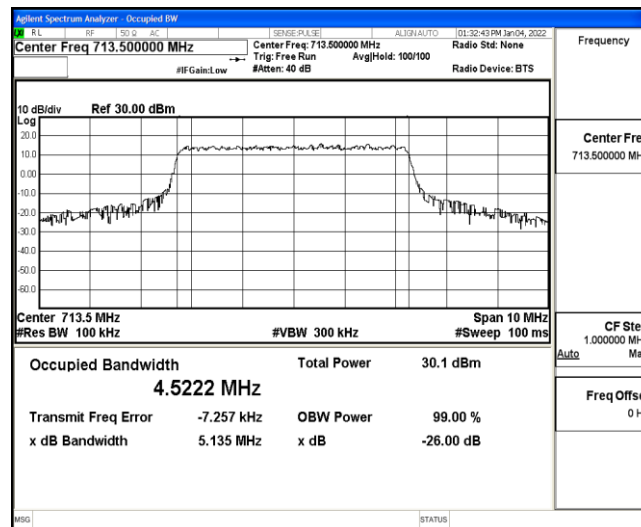
Band17-5MHz-QPSK-23755



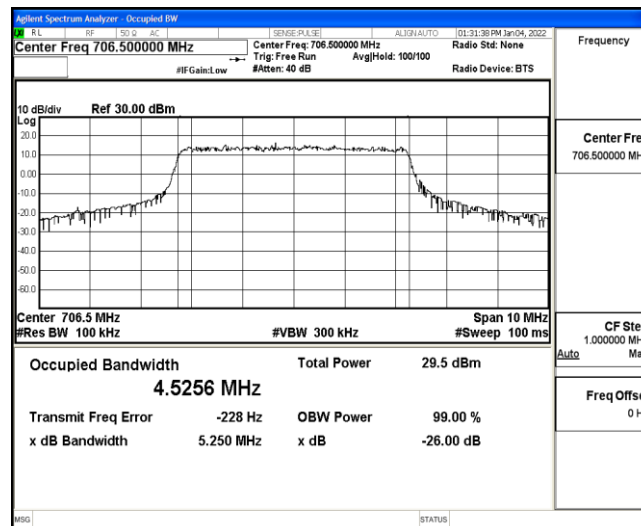
Band17-5MHz-QPSK-23790



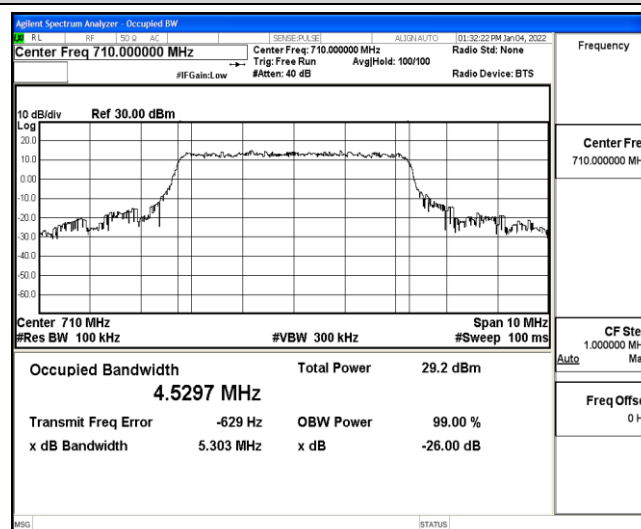
Band17-5MHz-QPSK-23825



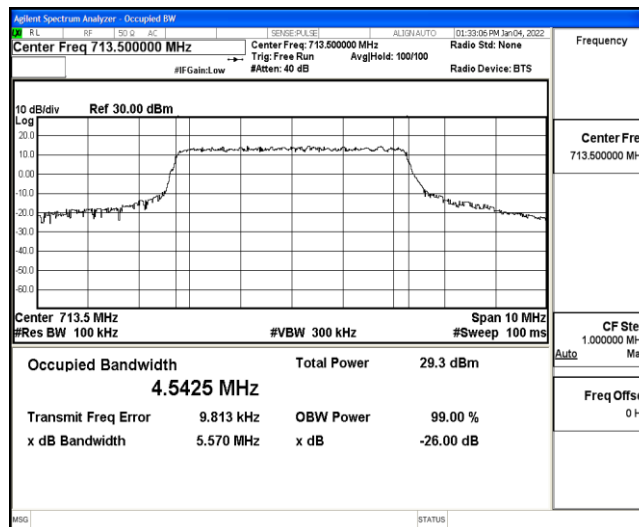
Band17-5MHz-16QAM-23755



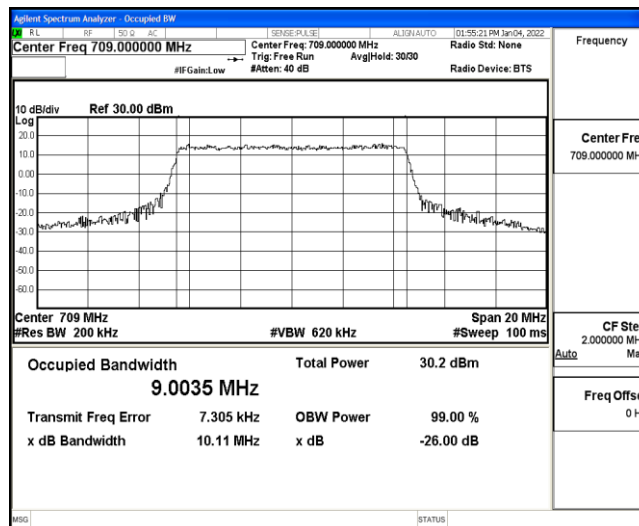
Band17-5MHz-16QAM-23790



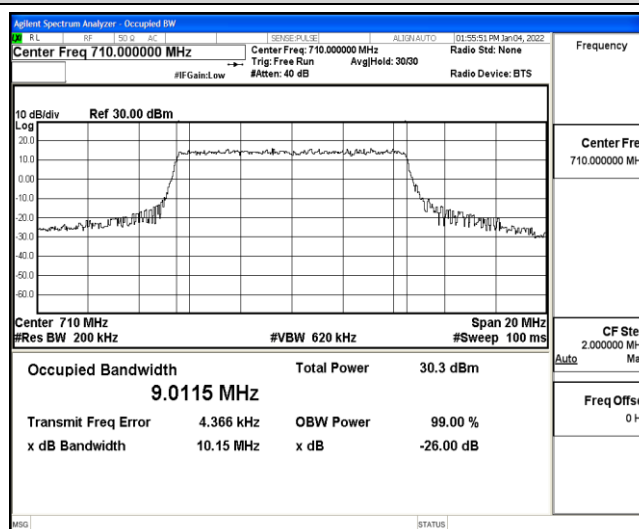
Band17-5MHz-16QAM-23825



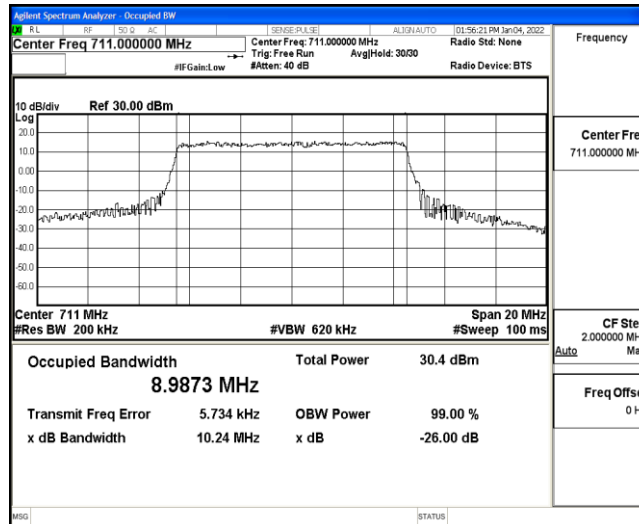
Band17-10MHz-QPSK-23780



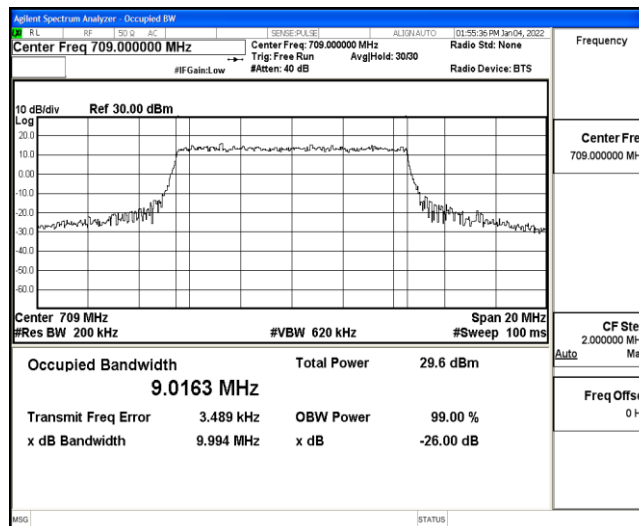
Band17-10MHz-QPSK-23790



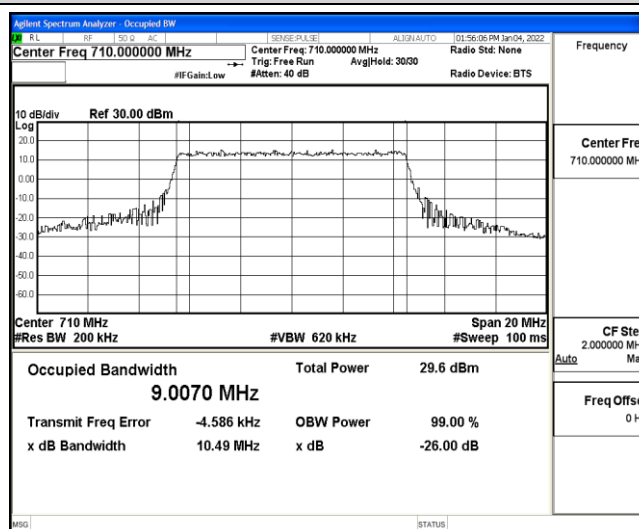
Band17-10MHz-QPSK-23800



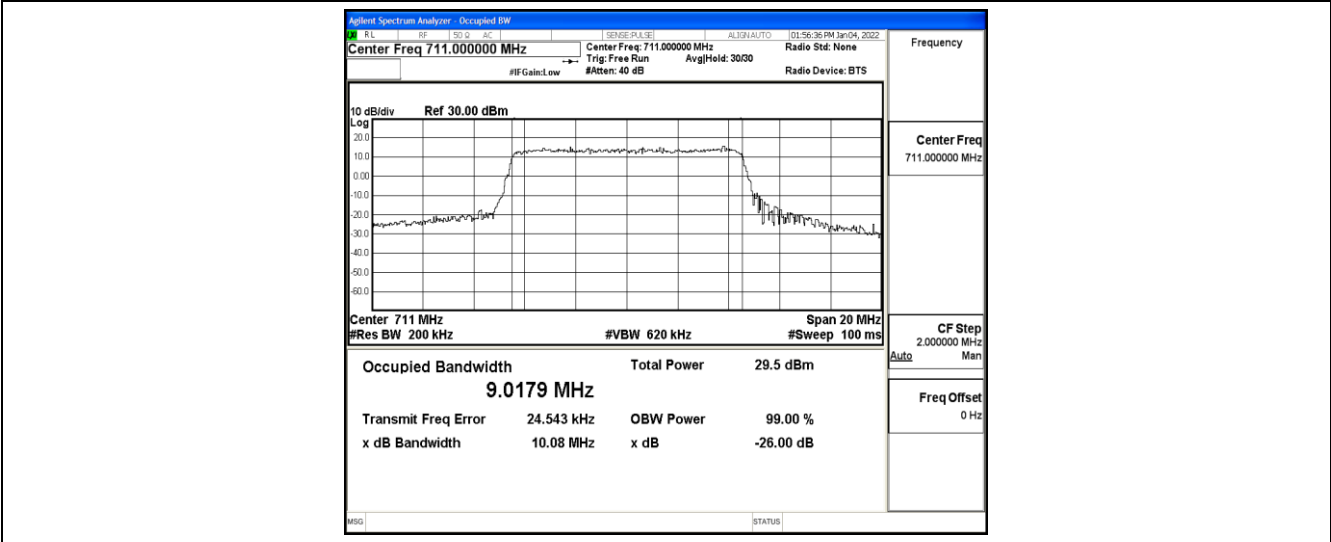
Band17-10MHz-16QAM-23780



Band17-10MHz-16QAM-23790



Band17-10MHz-16QAM-23800



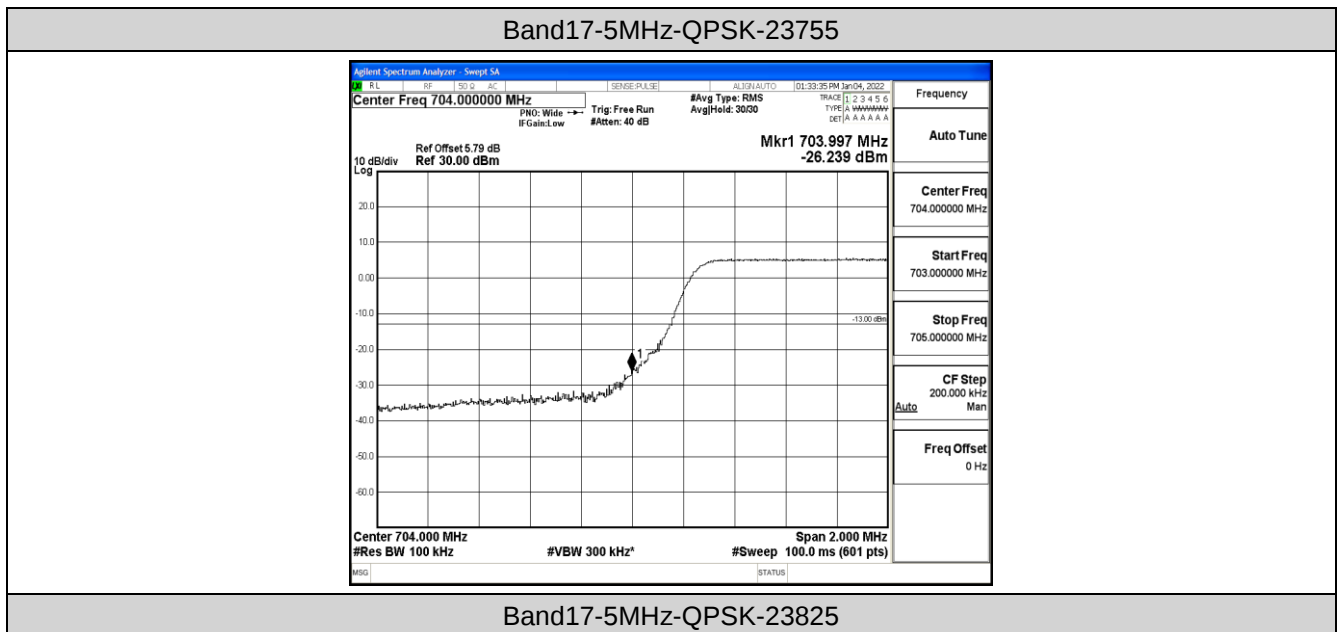


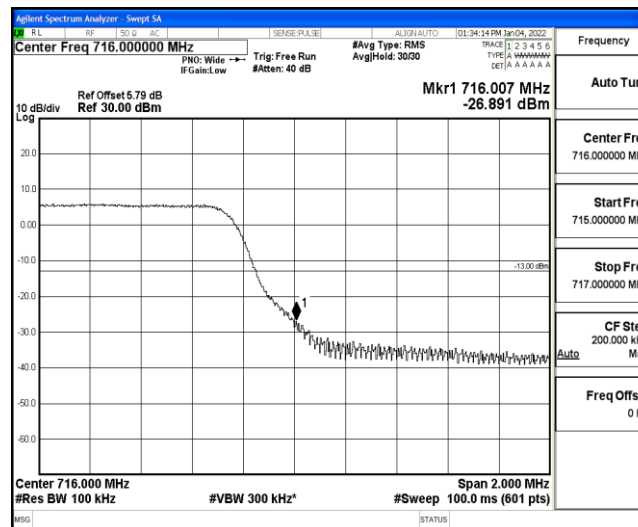
H.4 Band Edge

Test Result

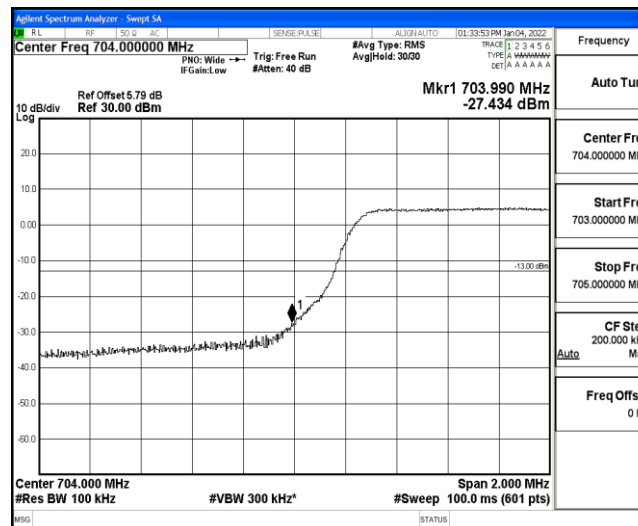
Band	Bandwidth	Modulation	Channel	Result(dBm)	Verdict
Band17	5MHz	QPSK	23755	-26.24	PASS
Band17	5MHz	QPSK	23825	-26.89	PASS
Band17	5MHz	16QAM	23755	-27.43	PASS
Band17	5MHz	16QAM	23825	-26.38	PASS
Band17	10MHz	QPSK	23780	-30.43,-28.31	PASS
Band17	10MHz	QPSK	23800	-29.26,-31.52	PASS
Band17	10MHz	16QAM	23780	-31.61,-29.66	PASS
Band17	10MHz	16QAM	23800	-29.01,-32.19	PASS

Test Graphs

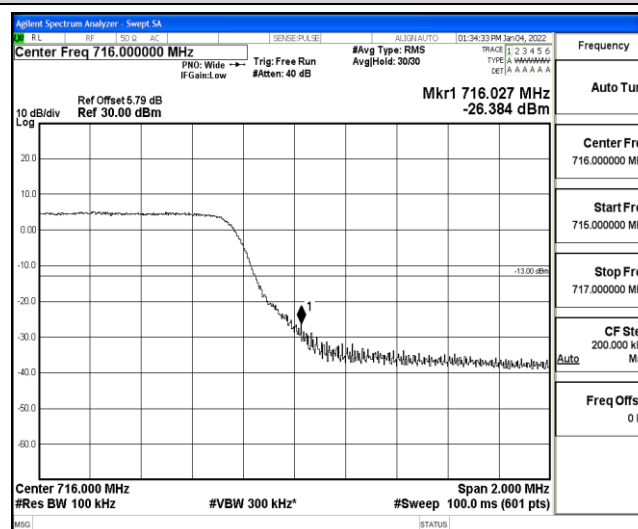




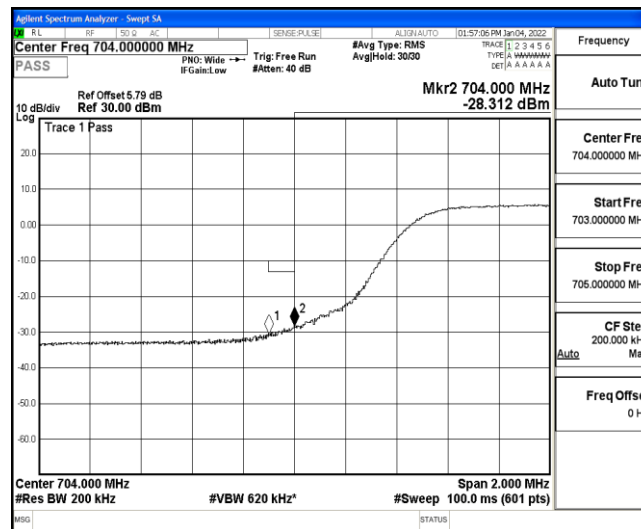
Band17-5MHz-16QAM-23755



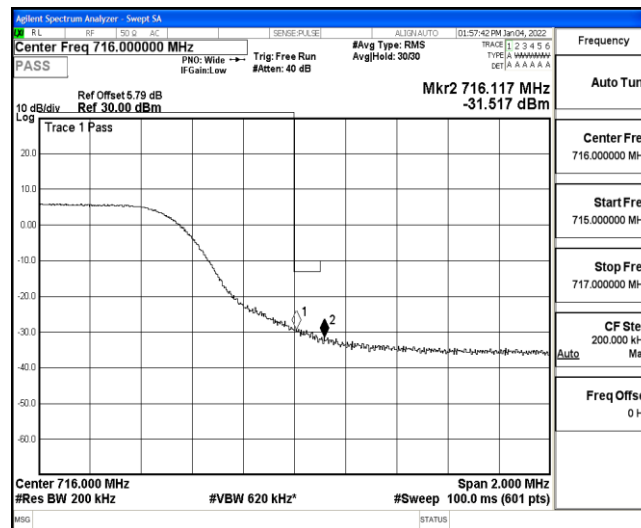
Band17-5MHz-16QAM-23825



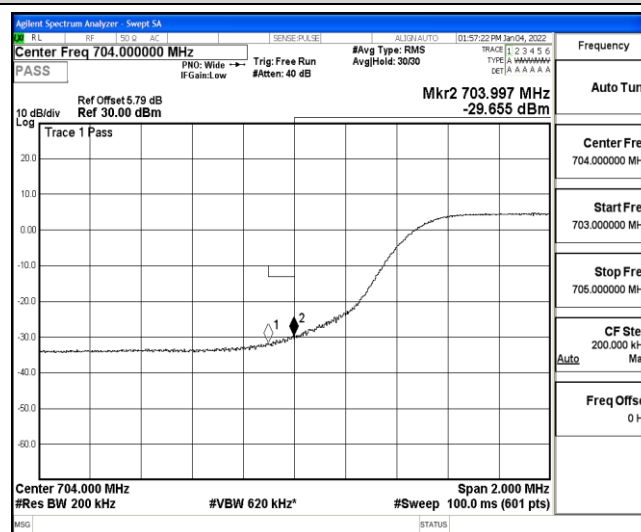
Band17-10MHz-QPSK-23780



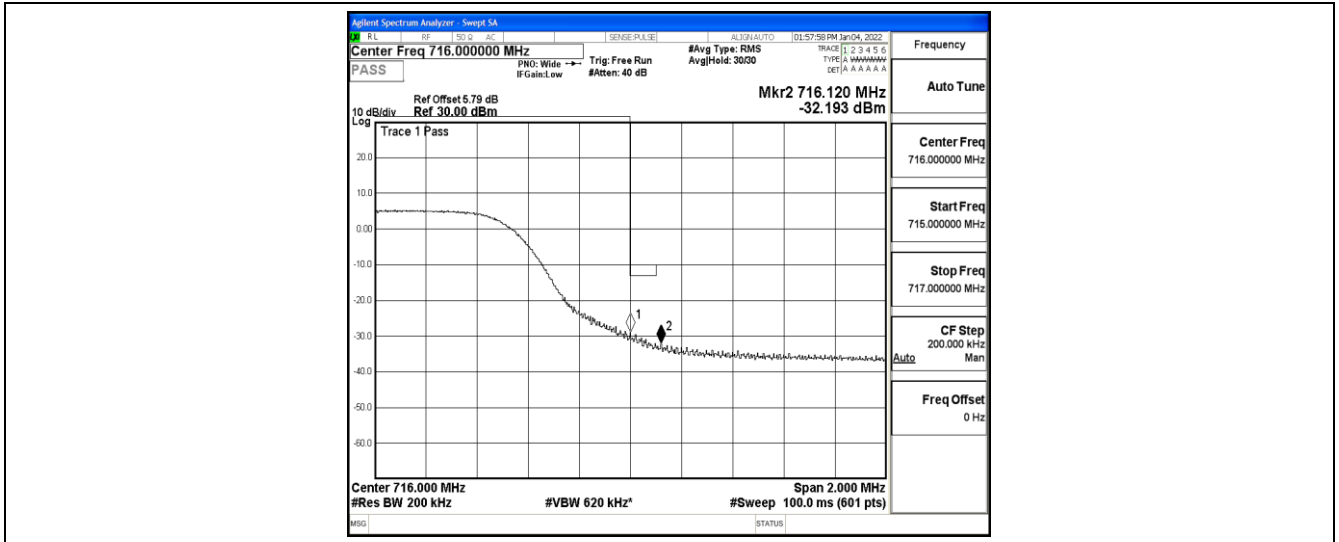
Band17-10MHz-QPSK-23800



Band17-10MHz-16QAM-23780



Band17-10MHz-16QAM-23800





H.5 Conducted Spurious Emission

Test Result

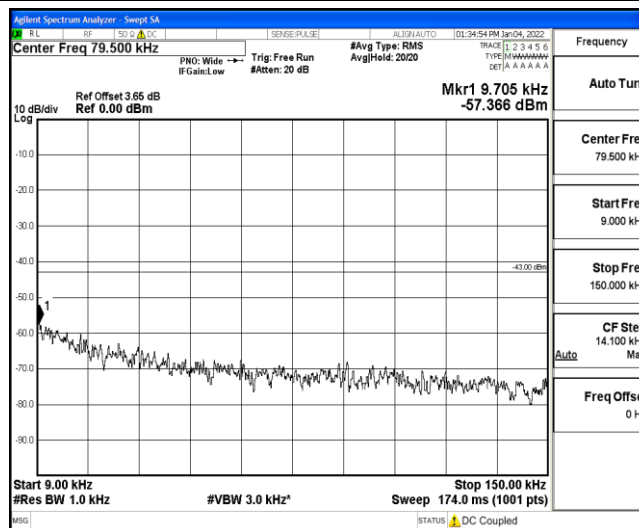
Band	Bandwidth	Modulation	Channel	Frequency Range	Result (dBm)	Verdict
Band17	5MHz	QPSK	23755	Range1:0.009~0.15MHz	-57.37	PASS
Band17	5MHz	QPSK	23755	Range2:0.15~30MHz	-52.14	PASS
Band17	5MHz	QPSK	23755	Range3:30~1000MHz	-41.08	PASS
Band17	5MHz	QPSK	23755	Range4:1000~10000MHz	-45.35	PASS
Band17	5MHz	QPSK	23790	Range1:0.009~0.15MHz	-55.85	PASS
Band17	5MHz	QPSK	23790	Range2:0.15~30MHz	-51.61	PASS
Band17	5MHz	QPSK	23790	Range3:30~1000MHz	-40.81	PASS
Band17	5MHz	QPSK	23790	Range4:1000~10000MHz	-45.46	PASS
Band17	5MHz	QPSK	23825	Range1:0.009~0.15MHz	-55.39	PASS
Band17	5MHz	QPSK	23825	Range2:0.15~30MHz	-50.46	PASS
Band17	5MHz	QPSK	23825	Range3:30~1000MHz	-40.81	PASS
Band17	5MHz	QPSK	23825	Range4:1000~10000MHz	-45.41	PASS
Band17	5MHz	16QAM	23755	Range1:0.009~0.15MHz	-56.96	PASS
Band17	5MHz	16QAM	23755	Range2:0.15~30MHz	-51.22	PASS
Band17	5MHz	16QAM	23755	Range3:30~1000MHz	-41.3	PASS
Band17	5MHz	16QAM	23755	Range4:1000~10000MHz	-45.49	PASS
Band17	5MHz	16QAM	23790	Range1:0.009~0.15MHz	-57.18	PASS
Band17	5MHz	16QAM	23790	Range2:0.15~30MHz	-50.98	PASS
Band17	5MHz	16QAM	23790	Range3:30~1000MHz	-41.87	PASS
Band17	5MHz	16QAM	23790	Range4:1000~10000MHz	-45.47	PASS
Band17	5MHz	16QAM	23825	Range1:0.009~0.15MHz	-56.5	PASS
Band17	5MHz	16QAM	23825	Range2:0.15~30MHz	-52.79	PASS
Band17	5MHz	16QAM	23825	Range3:30~1000MHz	-41.03	PASS
Band17	5MHz	16QAM	23825	Range4:1000~10000MHz	-45.48	PASS
Band17	10MHz	QPSK	23780	Range1:0.009~0.15MHz	-54.61	PASS
Band17	10MHz	QPSK	23780	Range2:0.15~30MHz	-52.91	PASS
Band17	10MHz	QPSK	23780	Range3:30~1000MHz	-40.88	PASS
Band17	10MHz	QPSK	23780	Range4:1000~10000MHz	-45.42	PASS
Band17	10MHz	QPSK	23790	Range1:0.009~0.15MHz	-56.05	PASS
Band17	10MHz	QPSK	23790	Range2:0.15~30MHz	-51.41	PASS
Band17	10MHz	QPSK	23790	Range3:30~1000MHz	-41.18	PASS
Band17	10MHz	QPSK	23790	Range4:1000~10000MHz	-45.46	PASS
Band17	10MHz	QPSK	23800	Range1:0.009~0.15MHz	-57.74	PASS
Band17	10MHz	QPSK	23800	Range2:0.15~30MHz	-50.57	PASS
Band17	10MHz	QPSK	23800	Range3:30~1000MHz	-41.32	PASS



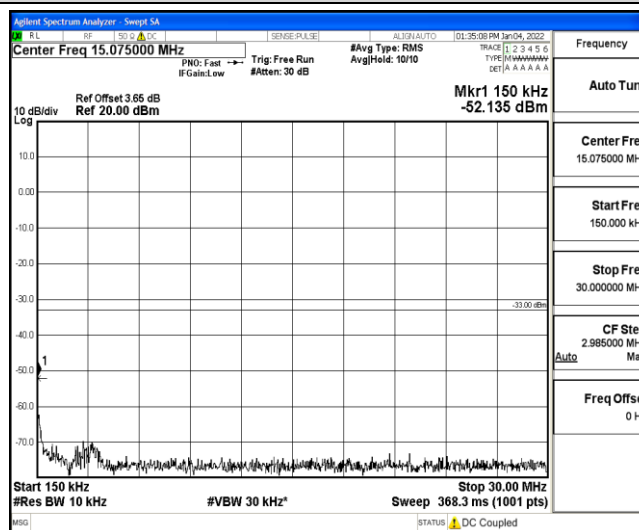
Band17	10MHz	QPSK	23800	Range4:1000~10000MHz	-45.51	PASS
Band17	10MHz	16QAM	23780	Range1:0.009~0.15MHz	-55.93	PASS
Band17	10MHz	16QAM	23780	Range2:0.15~30MHz	-49.71	PASS
Band17	10MHz	16QAM	23780	Range3:30~1000MHz	-40.88	PASS
Band17	10MHz	16QAM	23780	Range4:1000~10000MHz	-45.43	PASS
Band17	10MHz	16QAM	23790	Range1:0.009~0.15MHz	-57.49	PASS
Band17	10MHz	16QAM	23790	Range2:0.15~30MHz	-51.61	PASS
Band17	10MHz	16QAM	23790	Range3:30~1000MHz	-41	PASS
Band17	10MHz	16QAM	23790	Range4:1000~10000MHz	-45.34	PASS
Band17	10MHz	16QAM	23800	Range1:0.009~0.15MHz	-55.3	PASS
Band17	10MHz	16QAM	23800	Range2:0.15~30MHz	-51.59	PASS
Band17	10MHz	16QAM	23800	Range3:30~1000MHz	-40.95	PASS
Band17	10MHz	16QAM	23800	Range4:1000~10000MHz	-45.45	PASS

Test Graphs

Band17-5MHz-QPSK-23755-Range1:0.009~0.15MHz

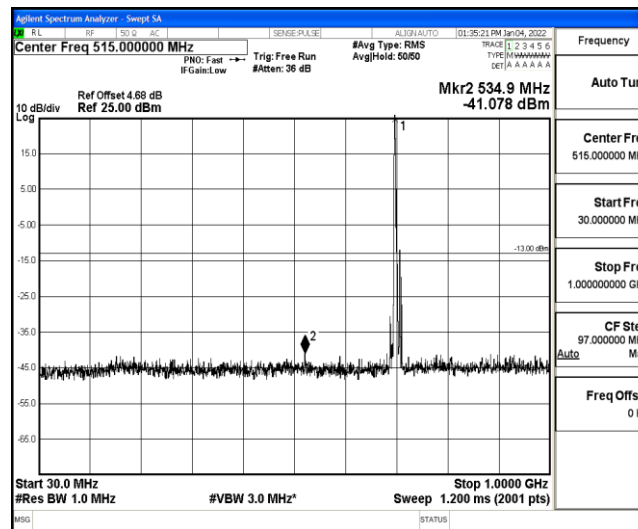


Band17-5MHz-QPSK-23755-Range2:0.15~30MHz

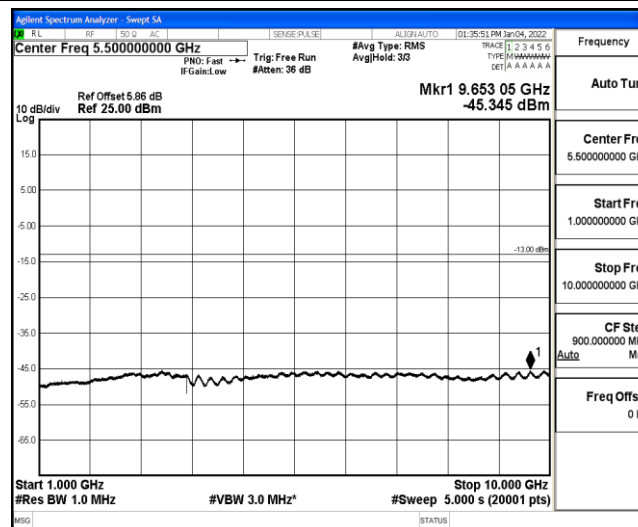




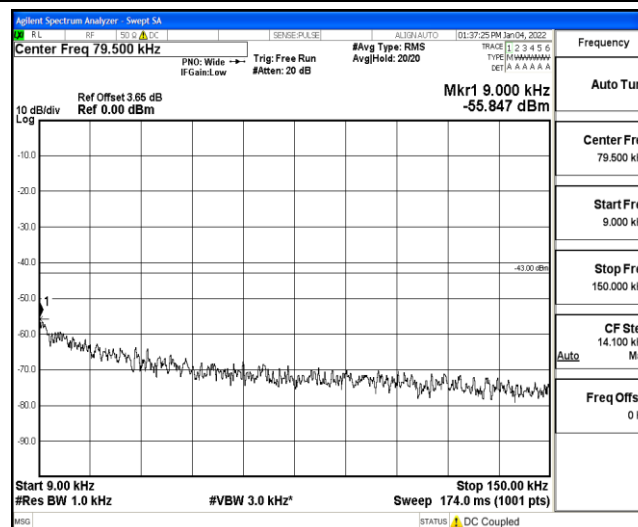
Band17-5MHz-QPSK-23755-Range3:30~1000MHz



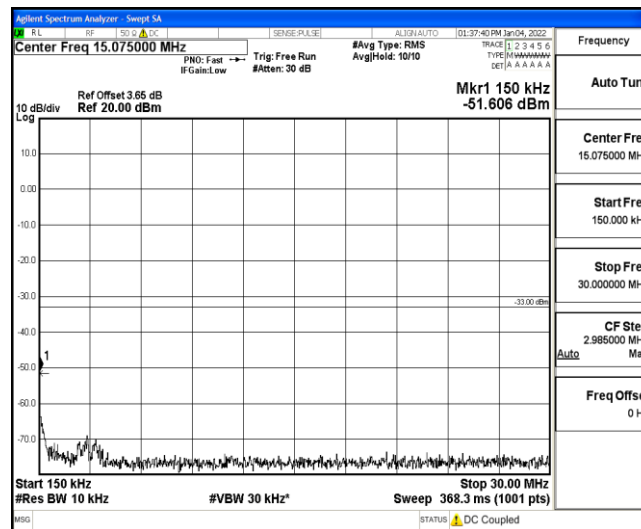
Band17-5MHz-QPSK-23755-Range4:1000~10000MHz



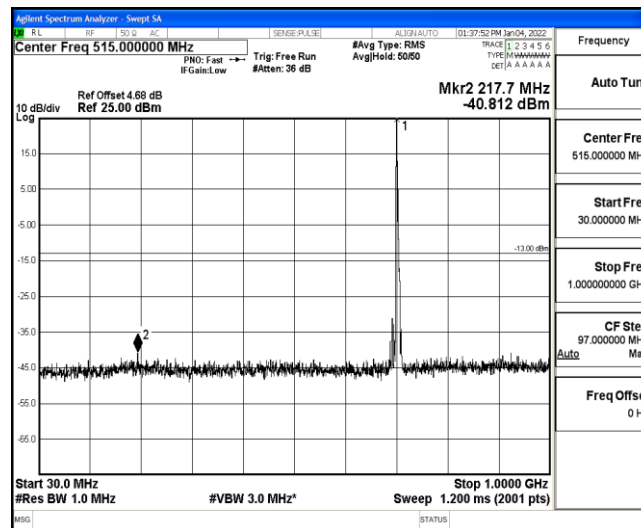
Band17-5MHz-QPSK-23790-Range1:0.009~0.15MHz



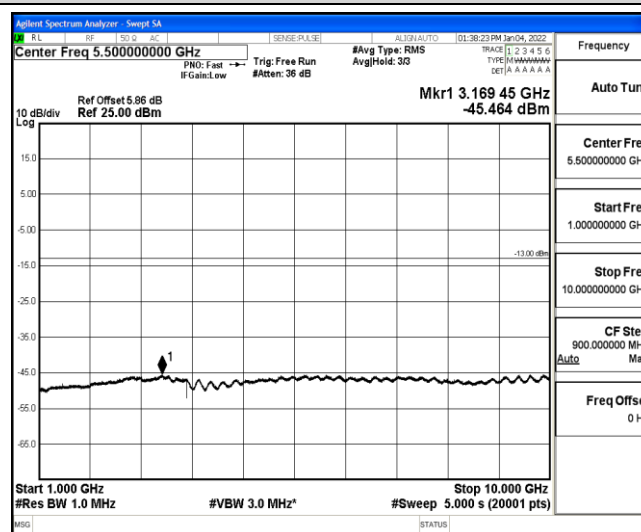
Band17-5MHz-QPSK-23790-Range2:0.15~30MHz



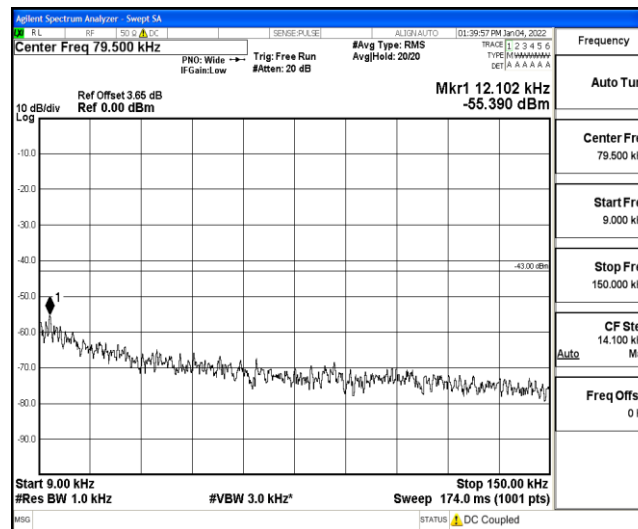
Band17-5MHz-QPSK-23790-Range3:30~1000MHz



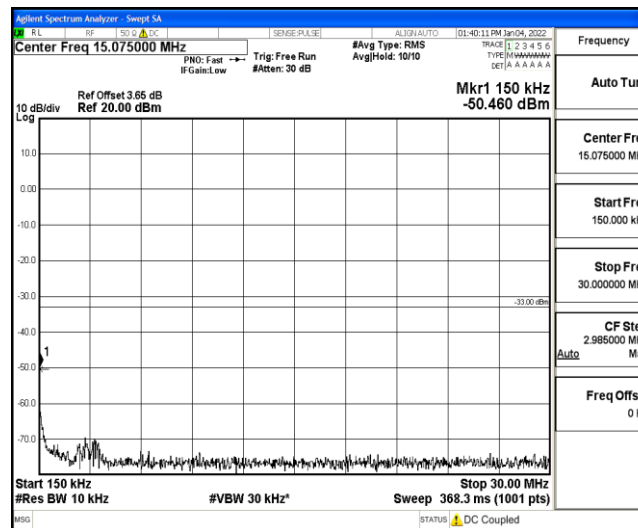
Band17-5MHz-QPSK-23790-Range4:1000~10000MHz



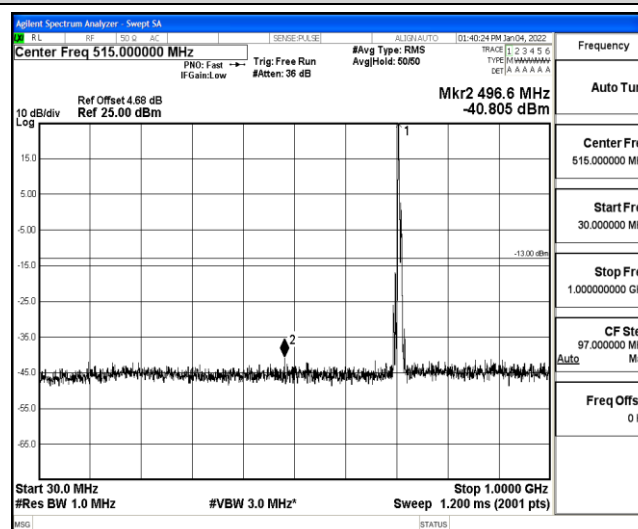
Band17-5MHz-QPSK-23825-Range1:0.009~0.15MHz



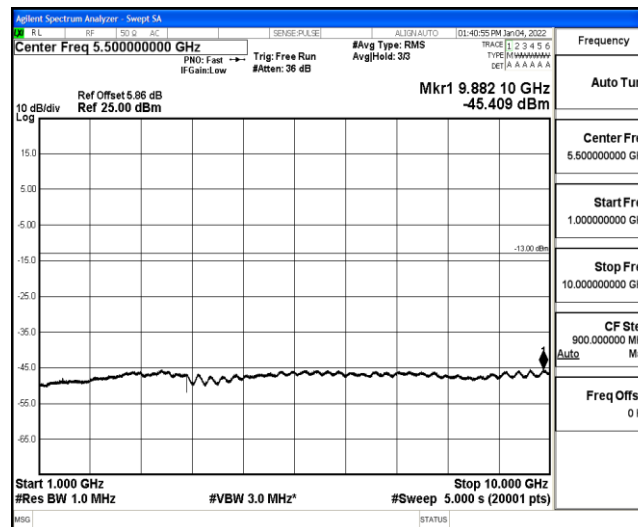
Band17-5MHz-QPSK-23825-Range2:0.15~30MHz



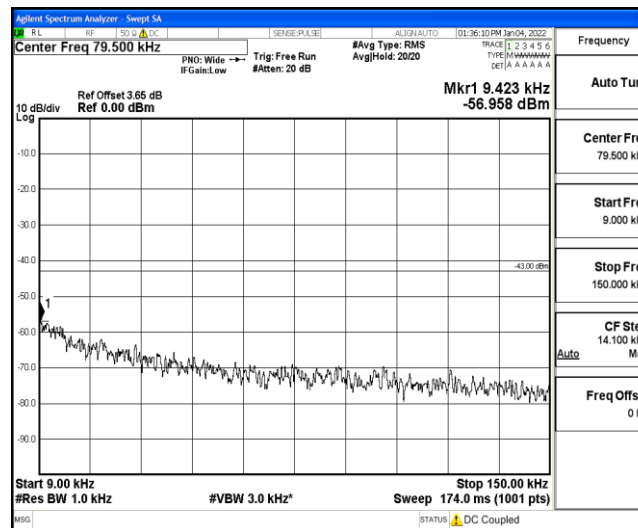
Band17-5MHz-QPSK-23825-Range3:30~1000MHz



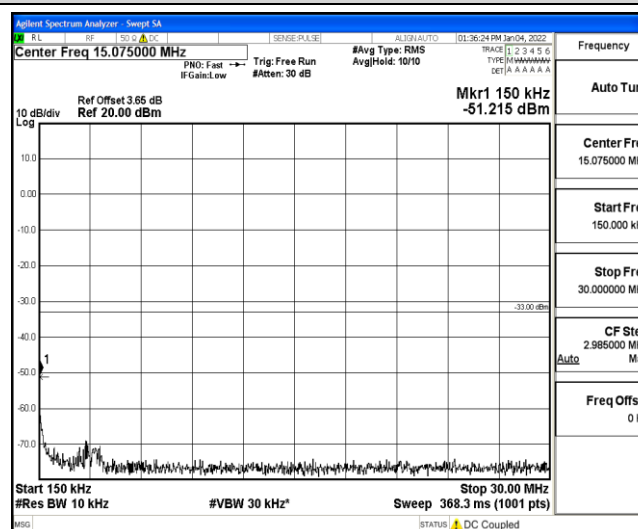
Band17-5MHz-QPSK-23825-Range4:1000~10000MHz



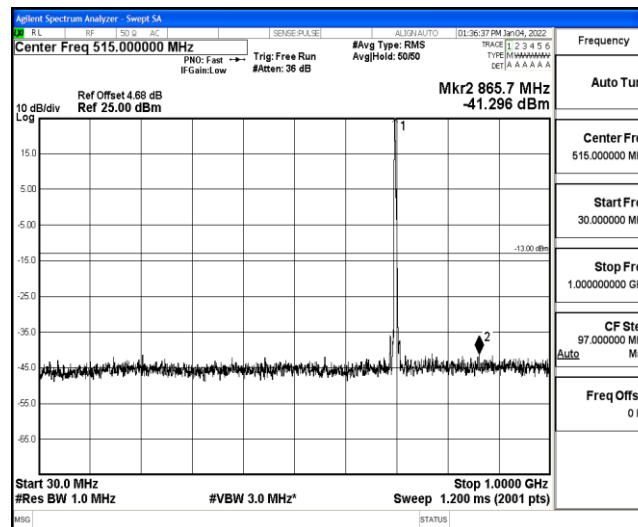
Band17-5MHz-16QAM-23755-Range1:0.009~0.15MHz



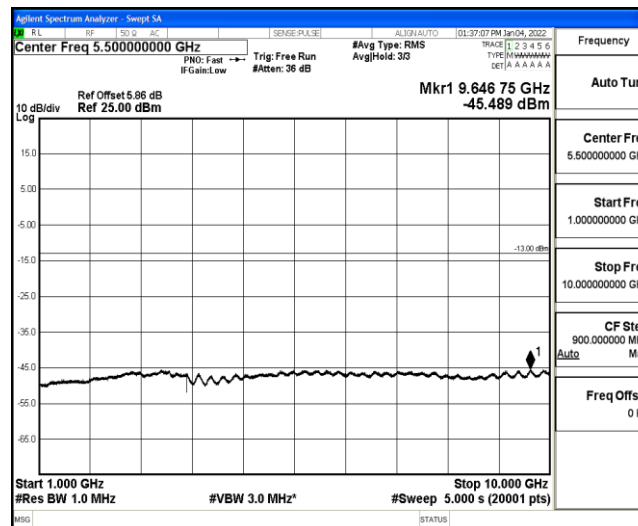
Band17-5MHz-16QAM-23755-Range2:0.15~30MHz



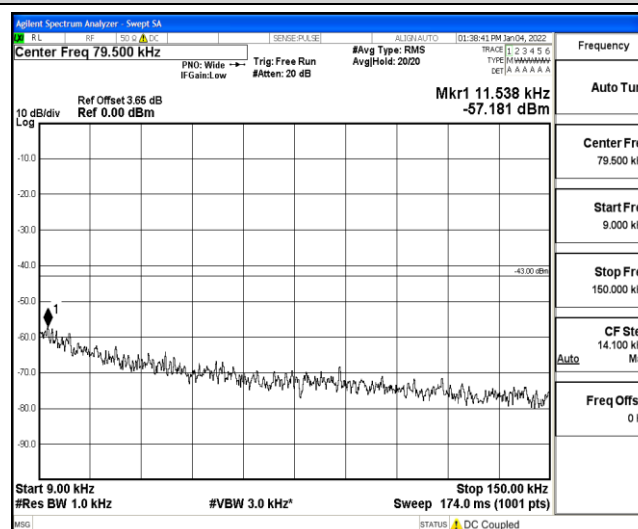
Band17-5MHz-16QAM-23755-Range3:30~1000MHz



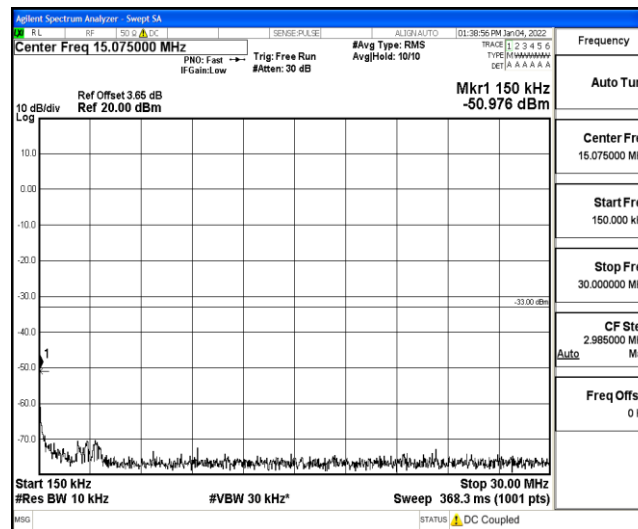
Band17-5MHz-16QAM-23755-Range4:1000~10000MHz



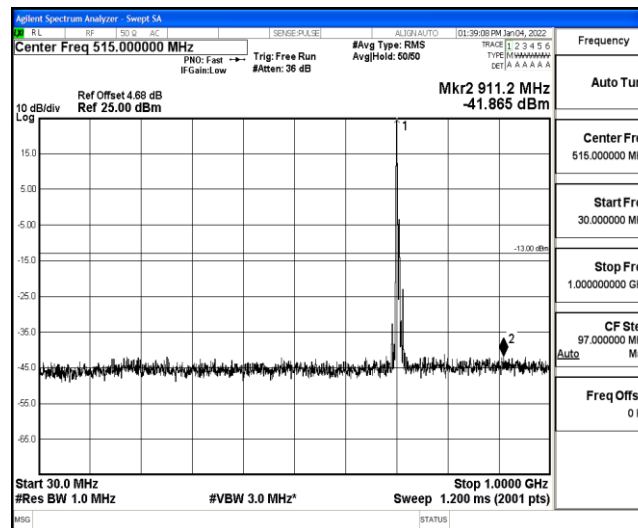
Band17-5MHz-16QAM-23790-Range1:0.009~0.15MHz



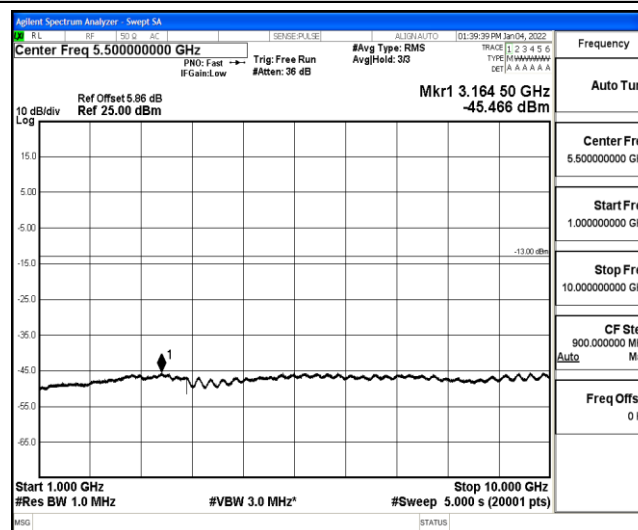
Band17-5MHz-16QAM-23790-Range2:0.15~30MHz



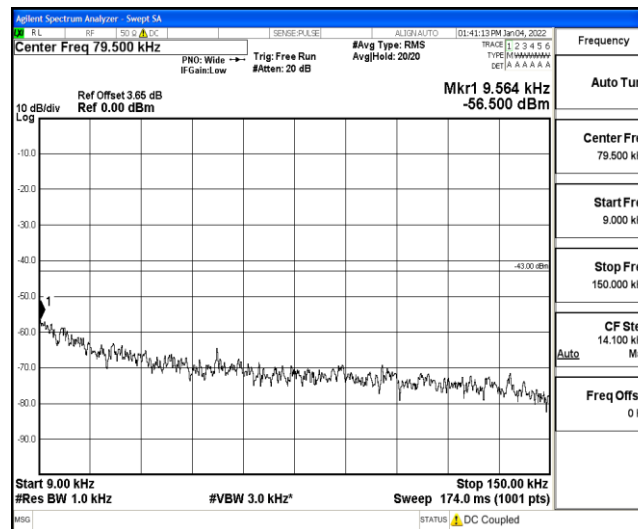
Band17-5MHz-16QAM-23790-Range3:30~1000MHz



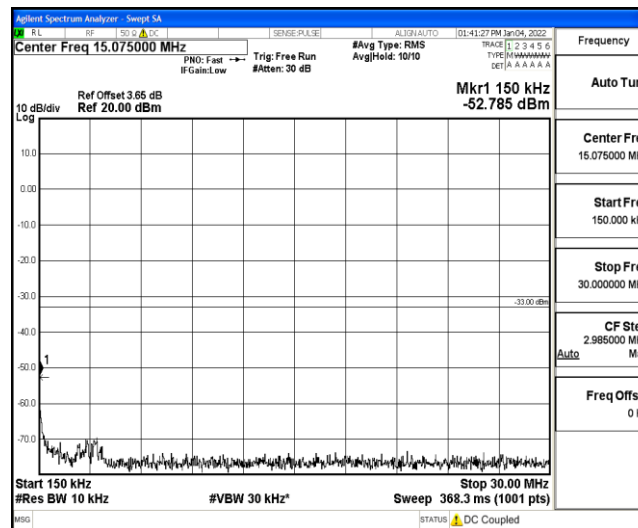
Band17-5MHz-16QAM-23790-Range4:1000~10000MHz



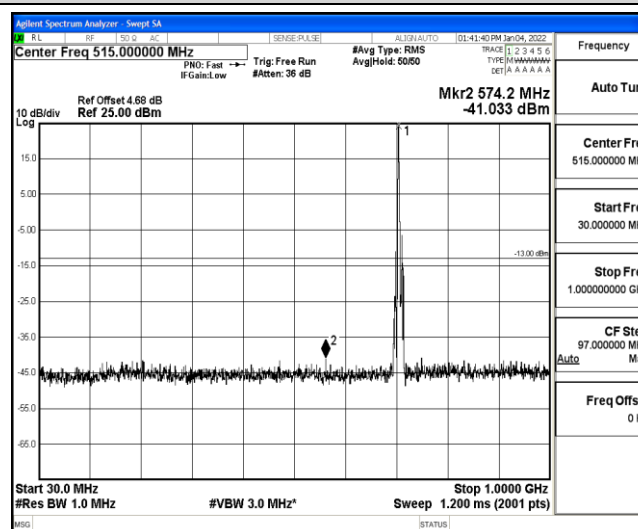
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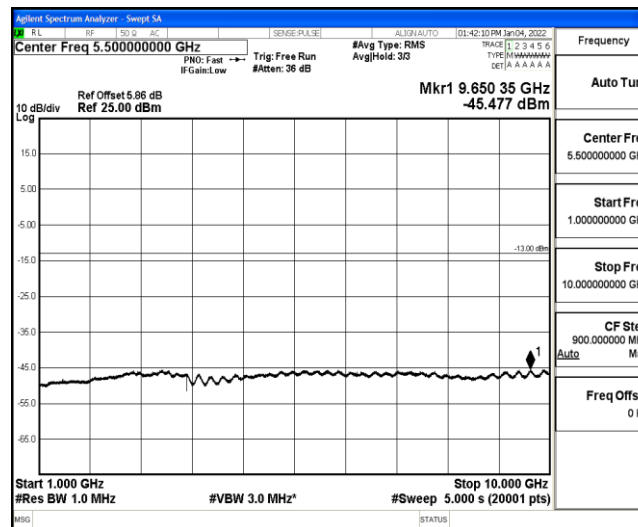
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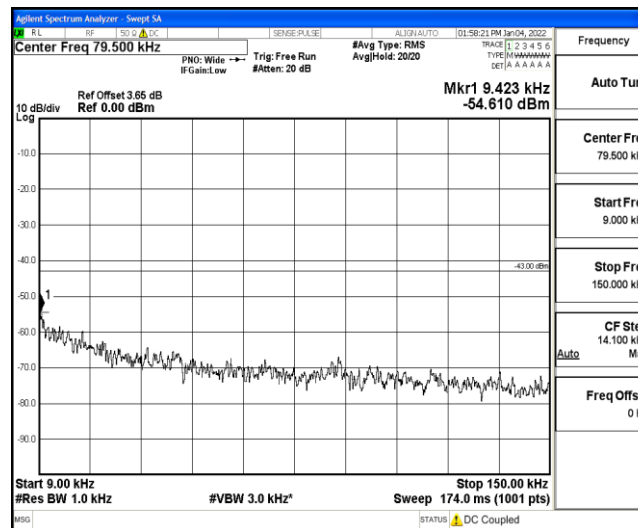
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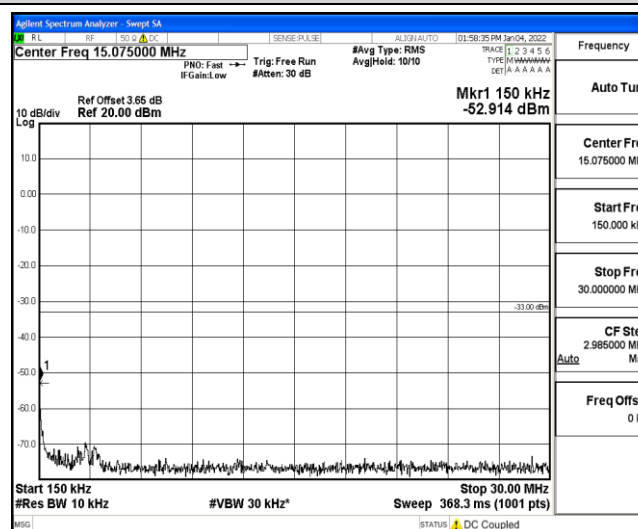
Band17-5MHz-16QAM-23825-Range4:1000~10000MHz



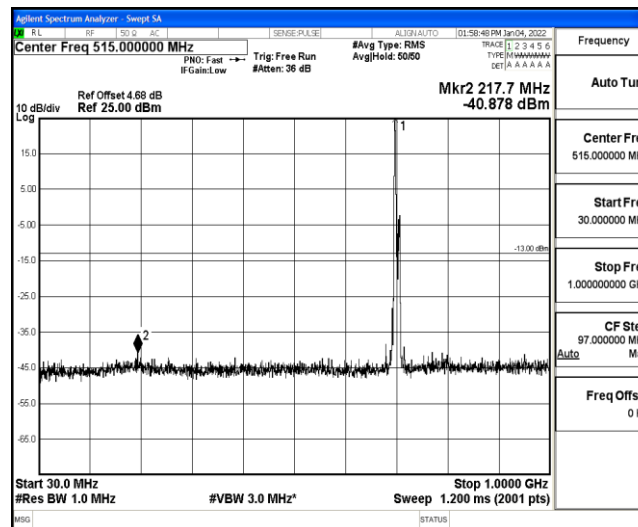
Band17-10MHz-QPSK-23780-Range1:0.009~0.15MHz



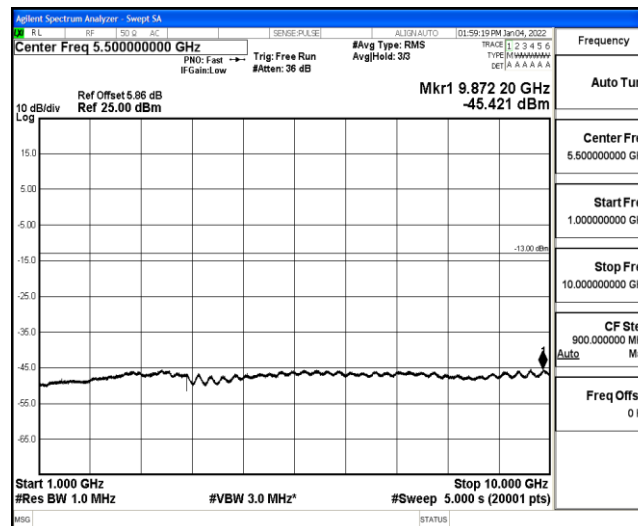
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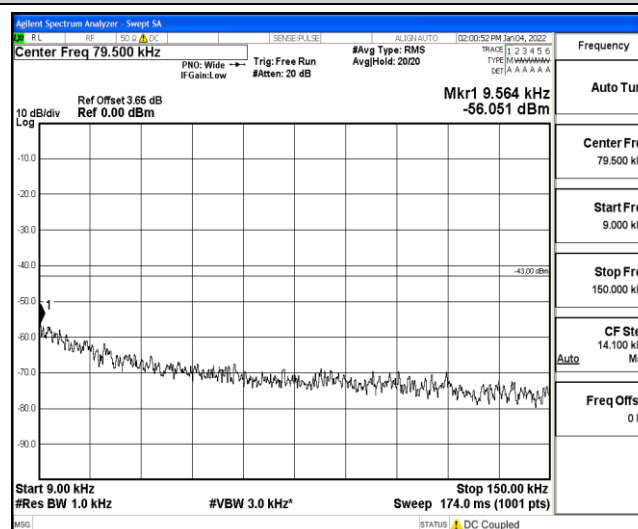
Band17-10MHz-QPSK-23780-Range3:30~1000MHz



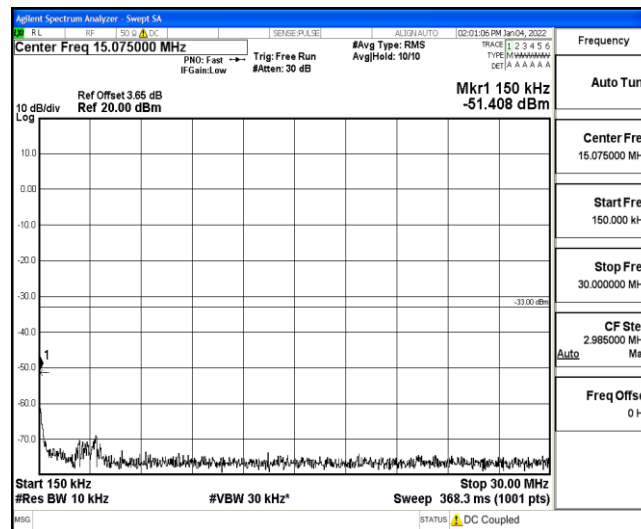
Band17-10MHz-QPSK-23780-Range4:1000~10000MHz



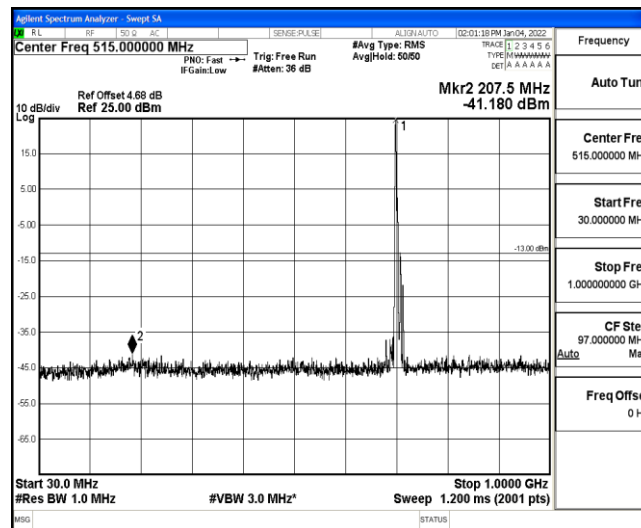
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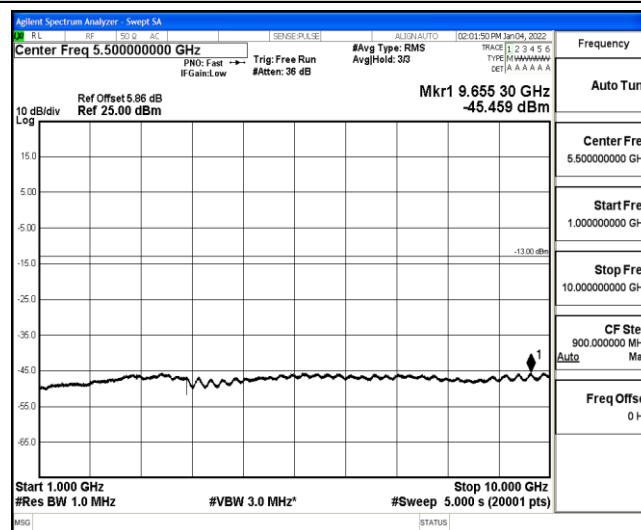
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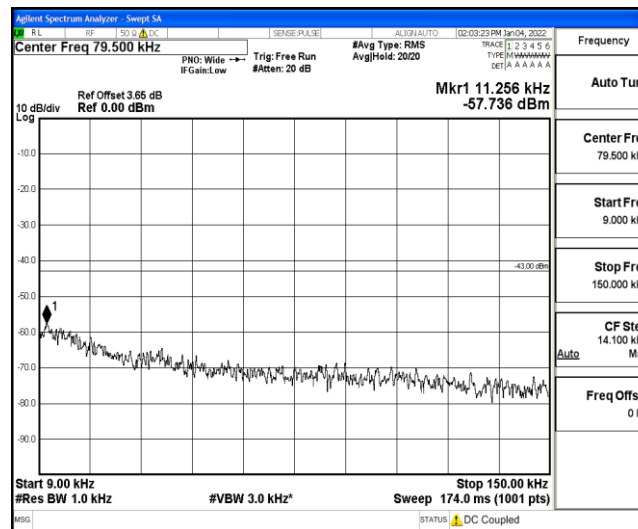
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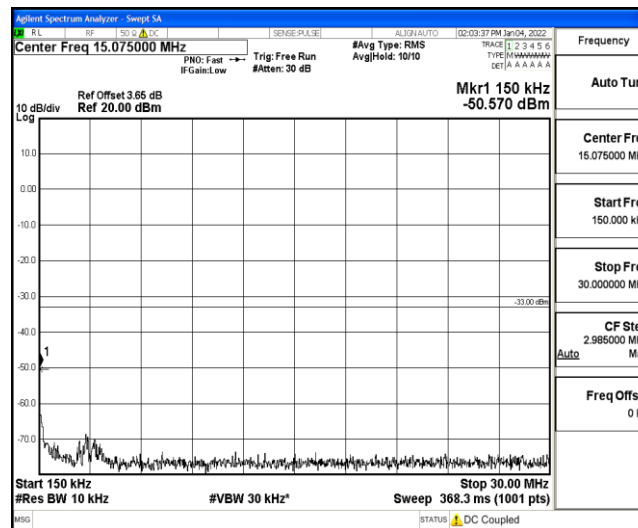
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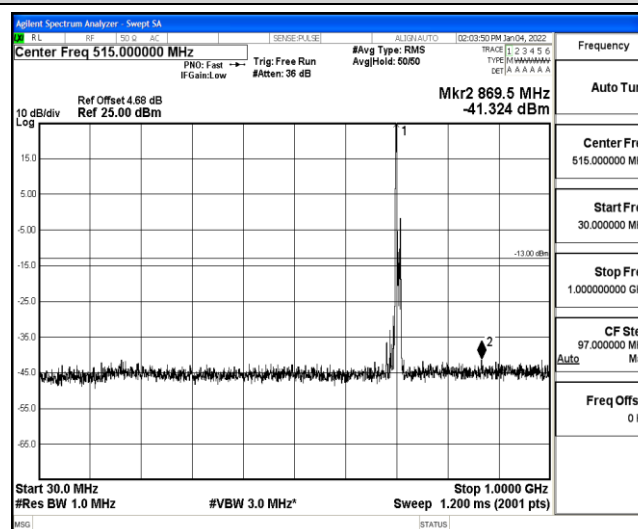
Band17-10MHz-QPSK-23800-Range1:0.009~0.15MHz



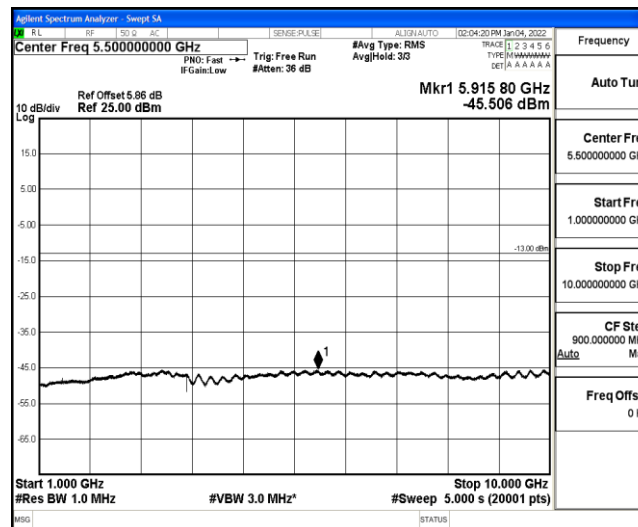
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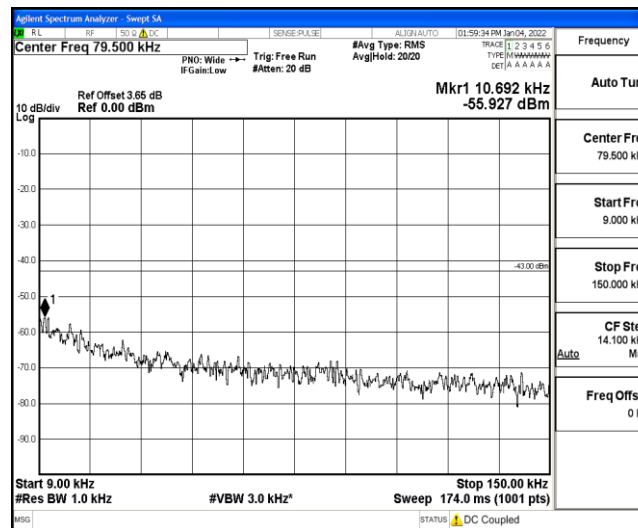
Band17-10MHz-QPSK-23800-Range3:30~1000MHz



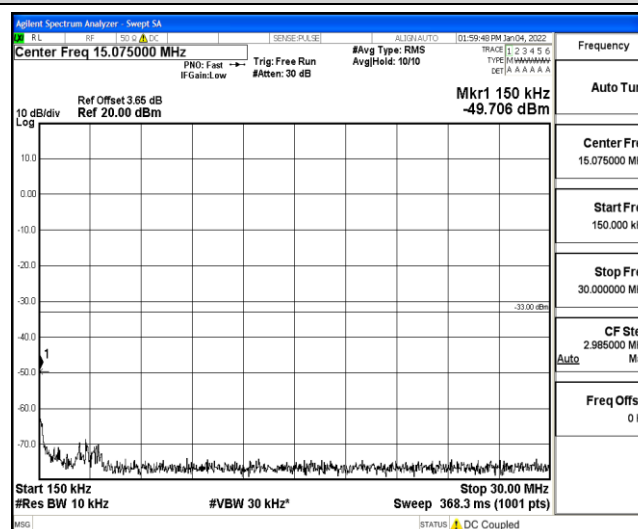
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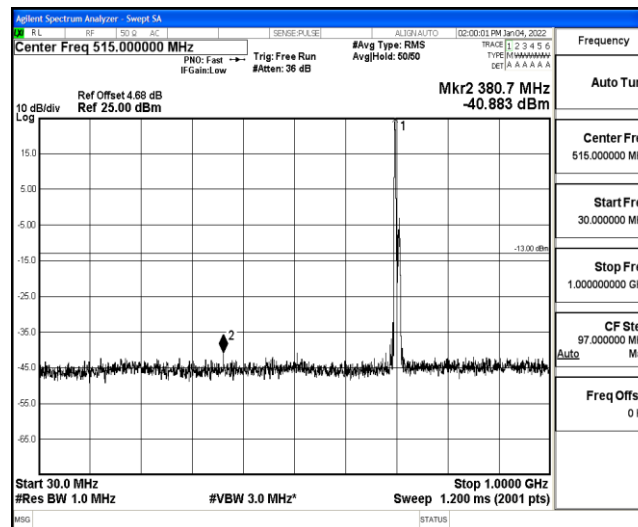
Band17-10MHz-16QAM-23780-Range1:0.009~0.15MHz



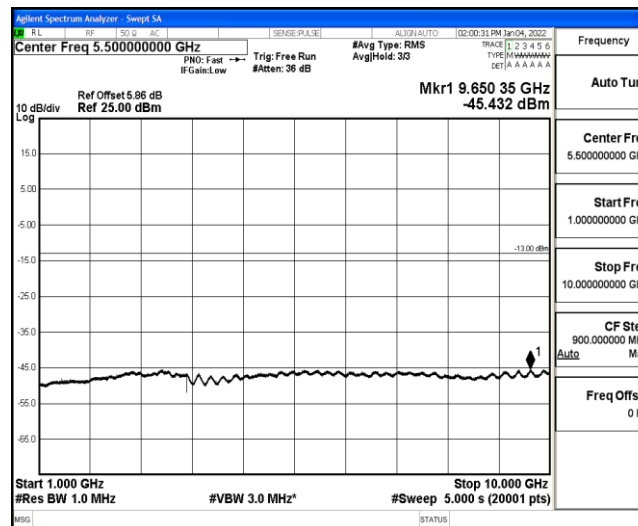
Band17-10MHz-16QAM-23780-Range2:0.15~30MHz



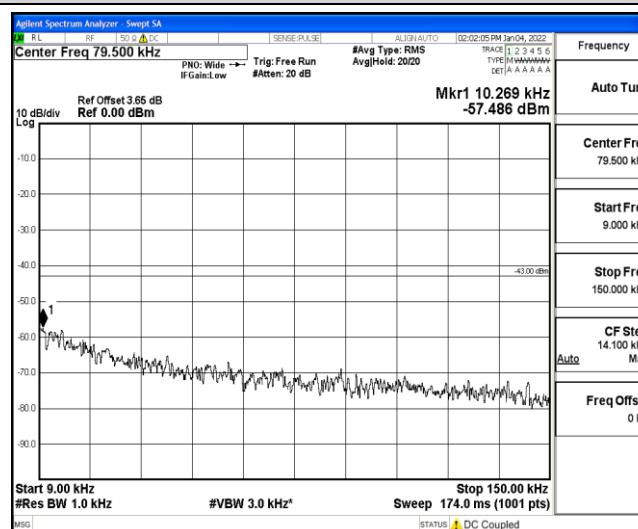
Band17-10MHz-16QAM-23780-Range3:30~1000MHz



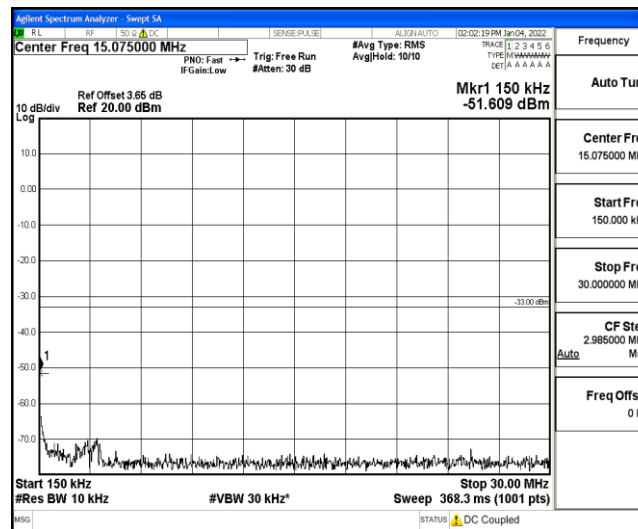
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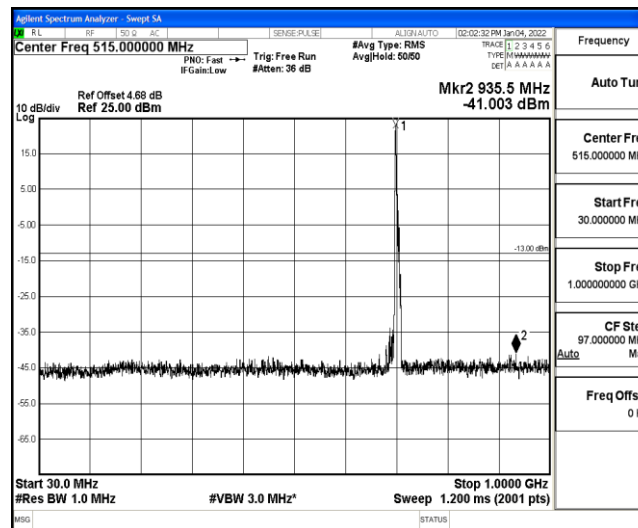
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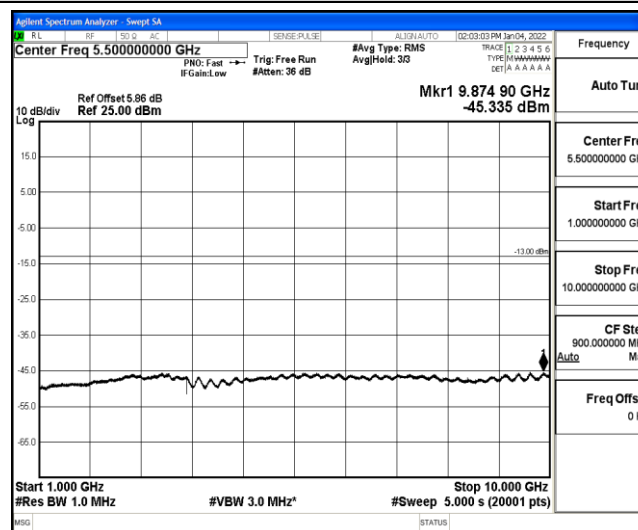
Band17-10MHz-16QAM-23790-Range2:0.15~30MHz



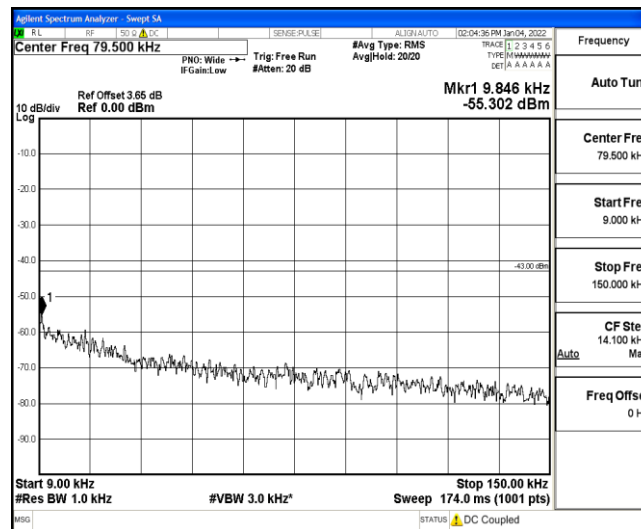
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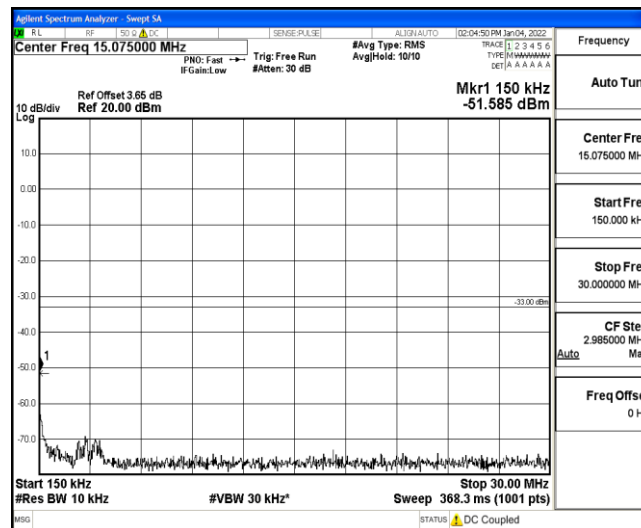
Band17-10MHz-16QAM-23790-Range4:1000~10000MHz



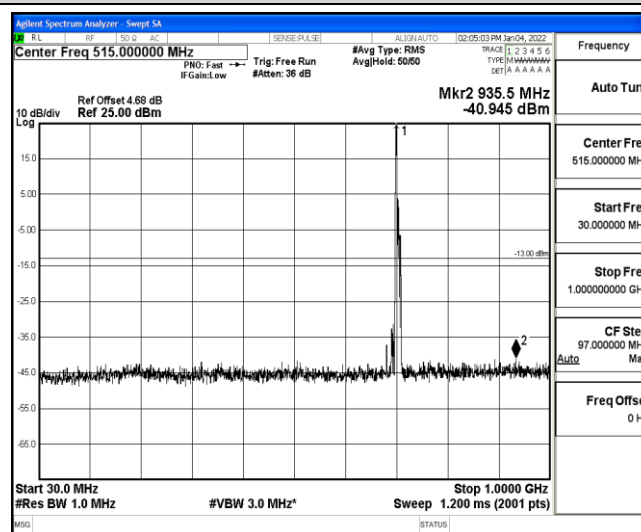
Band17-10MHz-16QAM-23800-Range1:0.009~0.15MHz



Band17-10MHz-16QAM-23800-Range2:0.15~30MHz



Band17-10MHz-16QAM-23800-Range3:30~1000MHz



Band17-10MHz-16QAM-23800-Range4:1000~10000MHz

