



Appendix M: Test Data for E-UTRA Band 17

Product Name: Handheld Data Terminal

Test Model: HT330

Environmental Conditions

Temperature:	23.6° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Ling Zhu
Supervised by:	Li huan





M.1 Conducted Output Power Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	22.78	PASS
Band17	5MHz	QPSK	23755	1RB#12	22.90	PASS
Band17	5MHz	QPSK	23755	1RB#24	22.76	PASS
Band17	5MHz	QPSK	23755	12RB#0	21.89	PASS
Band17	5MHz	QPSK	23755	12RB#6	21.86	PASS
Band17	5MHz	QPSK	23755	12RB#13	21.90	PASS
Band17	5MHz	QPSK	23755	25RB#0	21.84	PASS
Band17	5MHz	QPSK	23790	1RB#0	22.77	PASS
Band17	5MHz	QPSK	23790	1RB#12	22.90	PASS
Band17	5MHz	QPSK	23790	1RB#24	22.79	PASS
Band17	5MHz	QPSK	23790	12RB#0	21.81	PASS
Band17	5MHz	QPSK	23790	12RB#6	21.83	PASS
Band17	5MHz	QPSK	23790	12RB#13	21.89	PASS
Band17	5MHz	QPSK	23790	25RB#0	21.94	PASS
Band17	5MHz	QPSK	23825	1RB#0	22.81	PASS
Band17	5MHz	QPSK	23825	1RB#12	22.97	PASS
Band17	5MHz	QPSK	23825	1RB#24	22.83	PASS
Band17	5MHz	QPSK	23825	12RB#0	21.94	PASS
Band17	5MHz	QPSK	23825	12RB#6	21.93	PASS
Band17	5MHz	QPSK	23825	12RB#13	21.83	PASS
Band17	5MHz	QPSK	23825	25RB#0	21.90	PASS
Band17	5MHz	16QAM	23755	1RB#0	21.69	PASS
Band17	5MHz	16QAM	23755	1RB#12	21.90	PASS
Band17	5MHz	16QAM	23755	1RB#24	21.76	PASS
Band17	5MHz	16QAM	23755	12RB#0	20.83	PASS
Band17	5MHz	16QAM	23755	12RB#6	20.76	PASS
Band17	5MHz	16QAM	23755	12RB#13	20.81	PASS
Band17	5MHz	16QAM	23755	25RB#0	20.84	PASS
Band17	5MHz	16QAM	23790	1RB#0	21.86	PASS
Band17	5MHz	16QAM	23790	1RB#12	22.00	PASS





Band17	5MHz	16QAM	23790	1RB#24	21.84	PASS
Band17	5MHz	16QAM	23790	12RB#0	20.85	PASS
Band17	5MHz	16QAM	23790	12RB#6	20.89	PASS
Band17	5MHz	16QAM	23790	12RB#13	21.01	PASS
Band17	5MHz	16QAM	23790	25RB#0	20.92	PASS
Band17	5MHz	16QAM	23825	1RB#0	21.79	PASS
Band17	5MHz	16QAM	23825	1RB#12	21.86	PASS
Band17	5MHz	16QAM	23825	1RB#24	21.74	PASS
Band17	5MHz	16QAM	23825	12RB#0	20.96	PASS
Band17	5MHz	16QAM	23825	12RB#6	20.88	PASS
Band17	5MHz	16QAM	23825	12RB#13	20.88	PASS
Band17	5MHz	16QAM	23825	25RB#0	20.97	PASS
Band17	10MHz	QPSK	23780	1RB#0	22.79	PASS
Band17	10MHz	QPSK	23780	1RB#24	22.79	PASS
Band17	10MHz	QPSK	23780	1RB#49	22.79	PASS
Band17	10MHz	QPSK	23780	25RB#0	21.90	PASS
Band17	10MHz	QPSK	23780	25RB#12	21.91	PASS
Band17	10MHz	QPSK	23780	25RB#25	21.91	PASS
Band17	10MHz	QPSK	23780	50RB#0	21.87	PASS
Band17	10MHz	QPSK	23790	1RB#0	22.88	PASS
Band17	10MHz	QPSK	23790	1RB#24	23.01	PASS
Band17	10MHz	QPSK	23790	1RB#49	22.93	PASS
Band17	10MHz	QPSK	23790	25RB#0	21.99	PASS
Band17	10MHz	QPSK	23790	25RB#12	21.97	PASS
Band17	10MHz	QPSK	23790	25RB#25	21.92	PASS
Band17	10MHz	QPSK	23790	50RB#0	21.91	PASS
Band17	10MHz	QPSK	23800	1RB#0	22.92	PASS
Band17	10MHz	QPSK	23800	1RB#24	22.97	PASS
Band17	10MHz	QPSK	23800	1RB#49	22.91	PASS
Band17	10MHz	QPSK	23800	25RB#0	21.90	PASS
Band17	10MHz	QPSK	23800	25RB#12	21.95	PASS
Band17	10MHz	QPSK	23800	25RB#25	21.90	PASS
Band17	10MHz	QPSK	23800	50RB#0	21.91	PASS
Band17	10MHz	16QAM	23780	1RB#0	21.83	PASS
Band17	10MHz	16QAM	23780	1RB#24	22.00	PASS





Band17	10MHz	16QAM	23780	1RB#49	21.82	PASS
Band17	10MHz	16QAM	23780	25RB#0	20.92	PASS
Band17	10MHz	16QAM	23780	25RB#12	20.90	PASS
Band17	10MHz	16QAM	23780	25RB#25	20.87	PASS
Band17	10MHz	16QAM	23780	50RB#0	20.91	PASS
Band17	10MHz	16QAM	23790	1RB#0	21.76	PASS
Band17	10MHz	16QAM	23790	1RB#24	21.88	PASS
Band17	10MHz	16QAM	23790	1RB#49	21.77	PASS
Band17	10MHz	16QAM	23790	25RB#0	21.01	PASS
Band17	10MHz	16QAM	23790	25RB#12	21.01	PASS
Band17	10MHz	16QAM	23790	25RB#25	20.95	PASS
Band17	10MHz	16QAM	23790	50RB#0	20.95	PASS
Band17	10MHz	16QAM	23800	1RB#0	21.66	PASS
Band17	10MHz	16QAM	23800	1RB#24	21.82	PASS
Band17	10MHz	16QAM	23800	1RB#49	21.71	PASS
Band17	10MHz	16QAM	23800	25RB#0	20.96	PASS
Band17	10MHz	16QAM	23800	25RB#12	20.99	PASS
Band17	10MHz	16QAM	23800	25RB#25	20.90	PASS
Band17	10MHz	16QAM	23800	50RB#0	20.91	PASS





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

Test Result

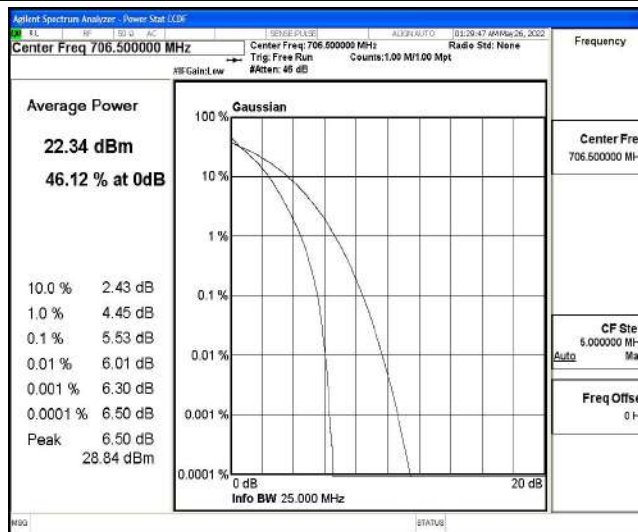
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	5.53	13	PASS
Band17	5MHz	QPSK	23790	25RB#0	5.35	13	PASS
Band17	5MHz	QPSK	23825	25RB#0	5.27	13	PASS
Band17	5MHz	16QAM	23755	25RB#0	6.27	13	PASS
Band17	5MHz	16QAM	23790	25RB#0	6.10	13	PASS
Band17	5MHz	16QAM	23825	25RB#0	6.06	13	PASS
Band17	10MHz	QPSK	23780	50RB#0	5.44	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	5.38	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	5.39	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	6.19	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	6.21	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	6.18	13	PASS



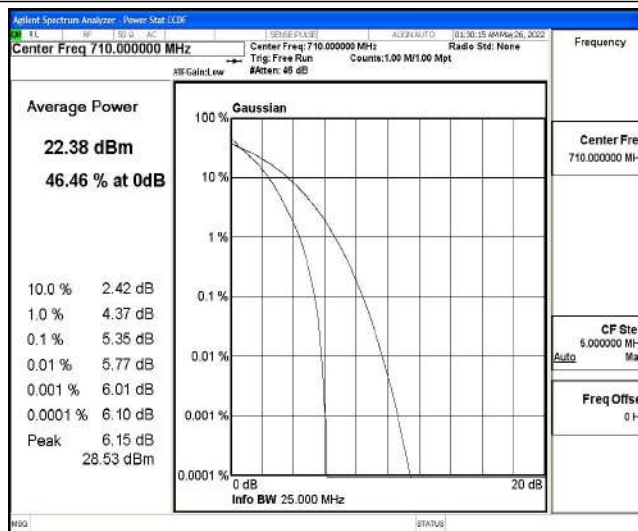


Test Graphs

Band17-5MHz-QPSK-23755-25RB#0

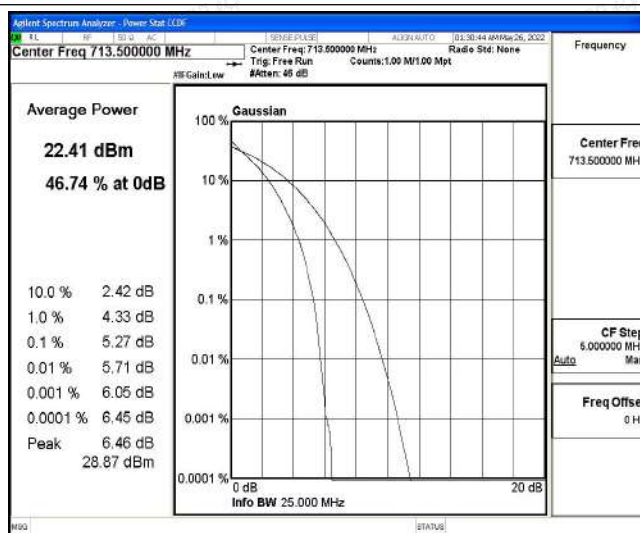


Band17-5MHz-QPSK-23790-25RB#0

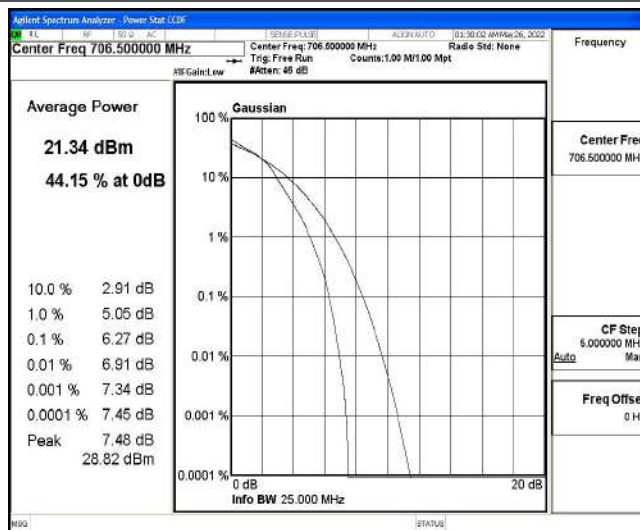


Band17-5MHz-QPSK-23825-25RB#0

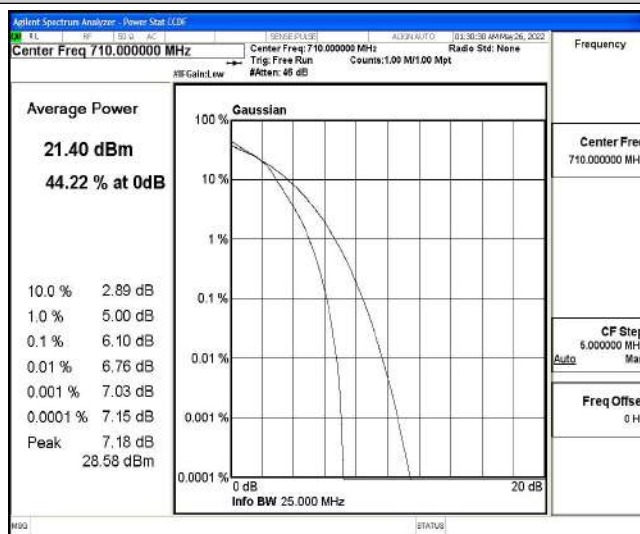




Band17-5MHz-16QAM-23755-25RB#0

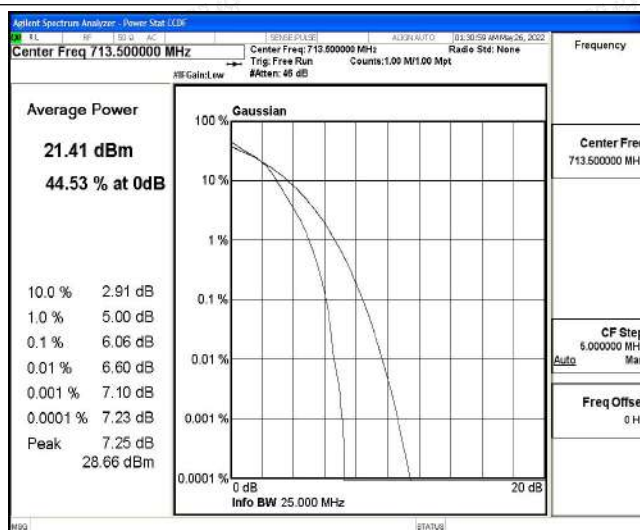


Band17-5MHz-16QAM-23790-25RB#0

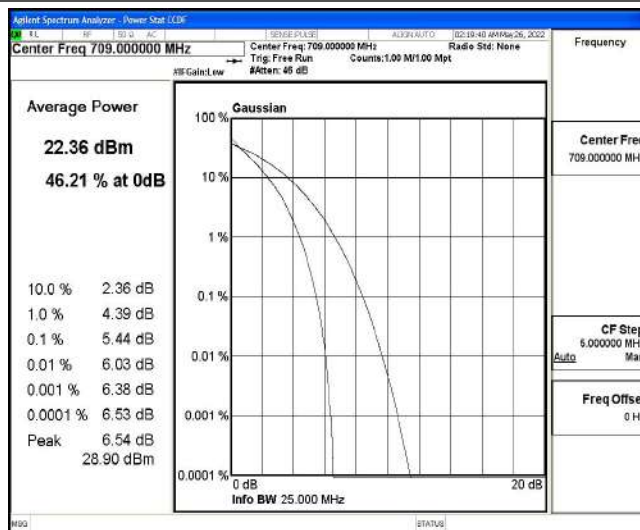


Band17-5MHz-16QAM-23825-25RB#0

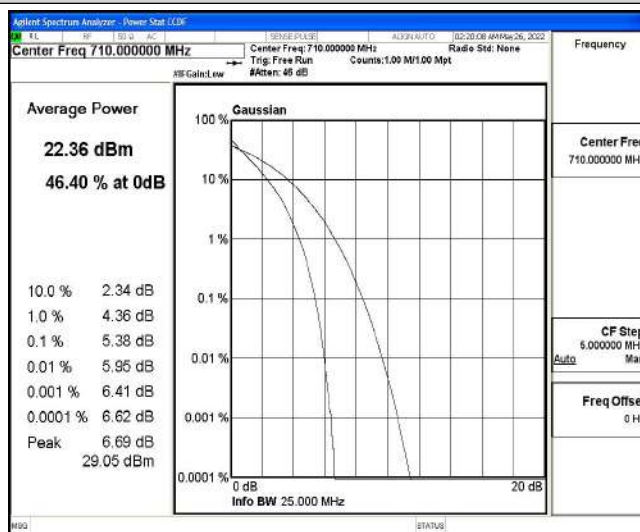




Band17-10MHz-QPSK-23780-50RB#0

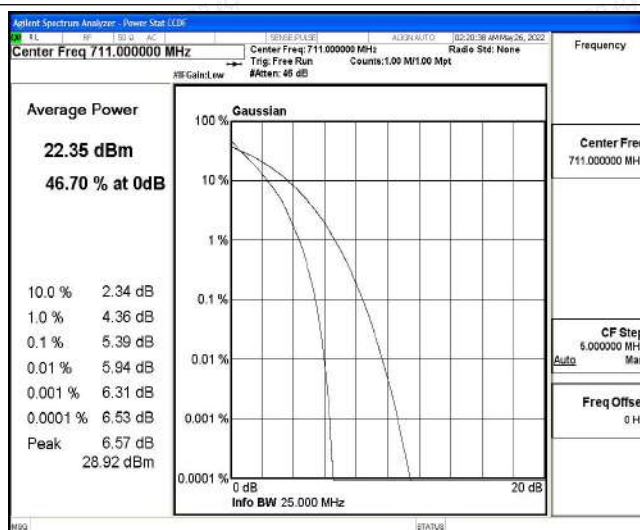


Band17-10MHz-QPSK-23790-50RB#0

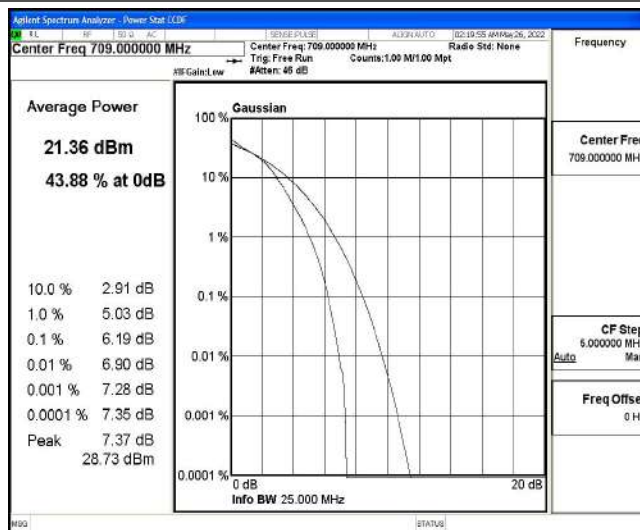


Band17-10MHz-QPSK-23800-50RB#0

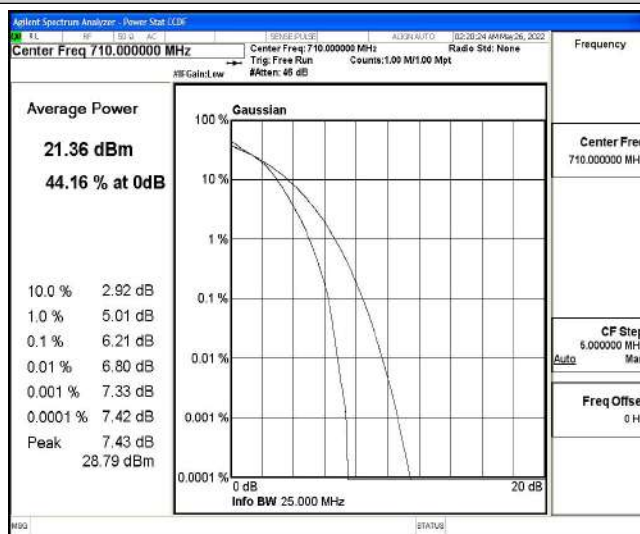




Band17-10MHz-16QAM-23780-50RB#0

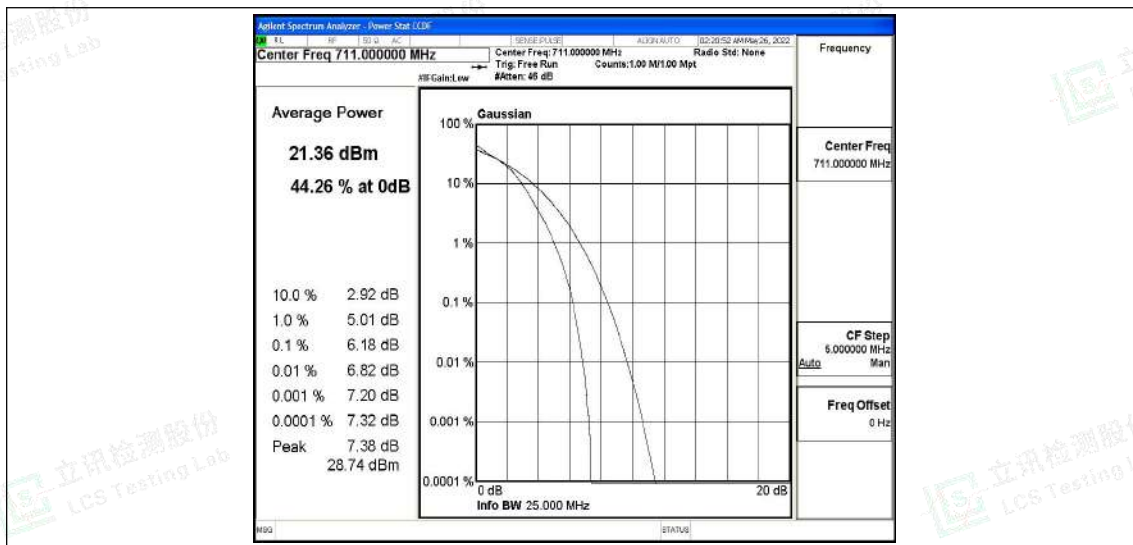


Band17-10MHz-16QAM-23790-50RB#0



Band17-10MHz-16QAM-23800-50RB#0







M.3 26dB Bandwidth and Occupied Bandwidth

Test Result

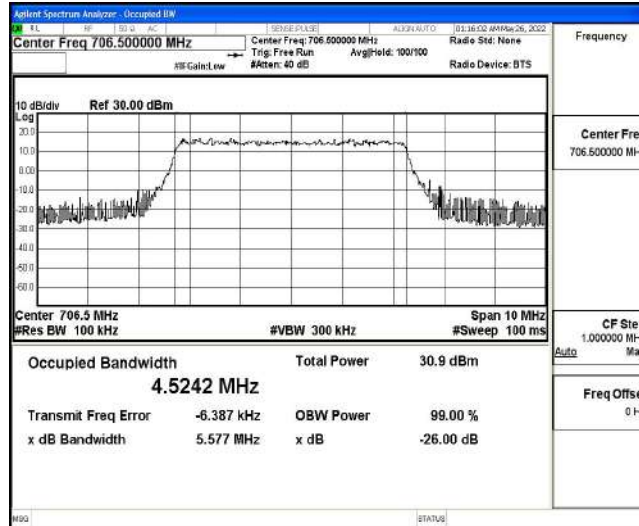
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	4.5242	5.577	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.5229	5.181	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.5119	5.110	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.5183	5.119	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.5195	5.111	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.5183	5.138	PASS
Band17	10MHz	QPSK	23780	50RB#0	9.0195	11.31	PASS
Band17	10MHz	QPSK	23790	50RB#0	9.0322	10.12	PASS
Band17	10MHz	QPSK	23800	50RB#0	8.9972	10.04	PASS
Band17	10MHz	16QAM	23780	50RB#0	9.0166	10.04	PASS
Band17	10MHz	16QAM	23790	50RB#0	8.9967	9.978	PASS
Band17	10MHz	16QAM	23800	50RB#0	8.9864	10.13	PASS



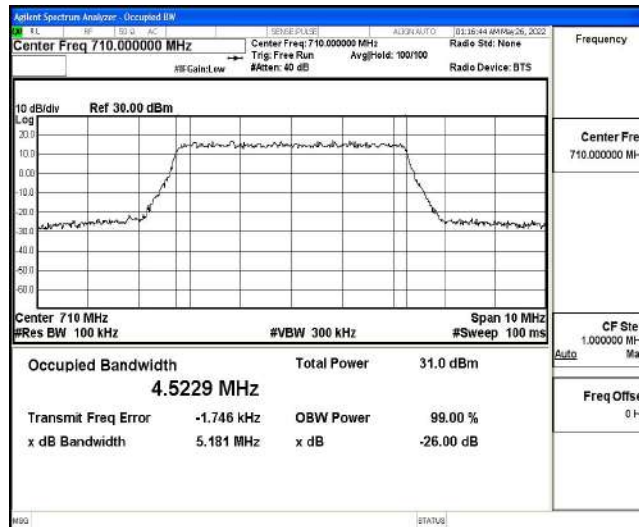


Test Graphs

Band17-5MHz-QPSK-23755-25RB#0

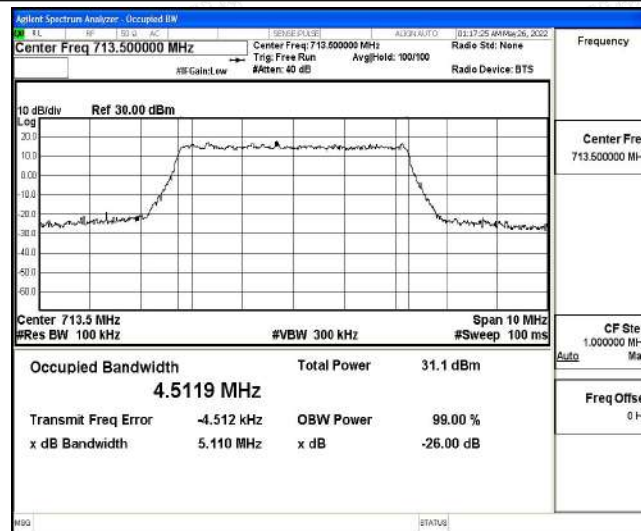


Band17-5MHz-QPSK-23790-25RB#0

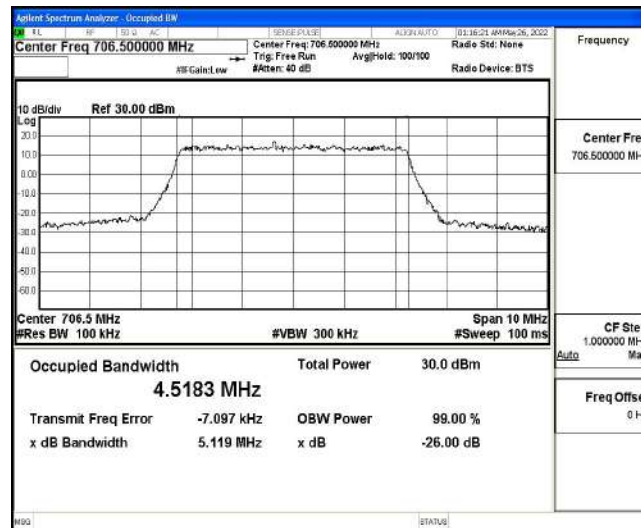


Band17-5MHz-QPSK-23825-25RB#0

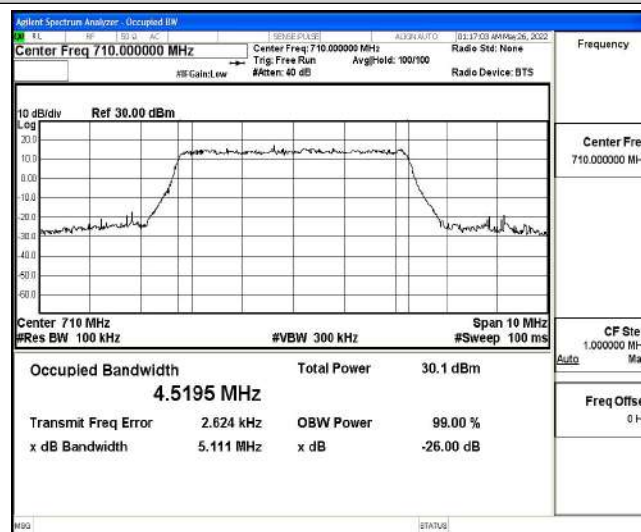




Band17-5MHz-16QAM-23755-25RB#0

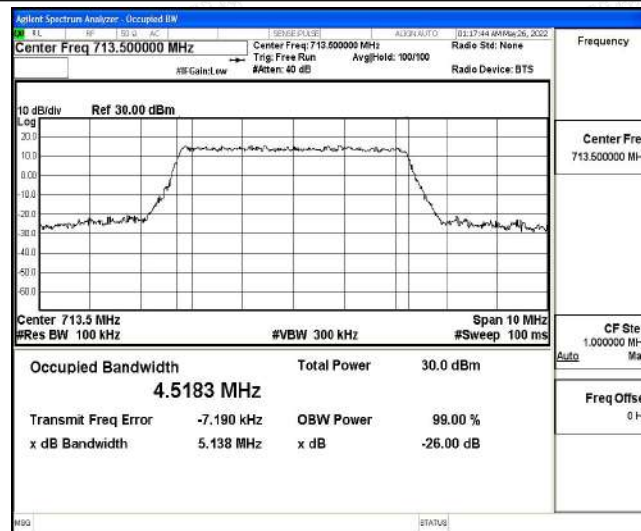


Band17-5MHz-16QAM-23790-25RB#0

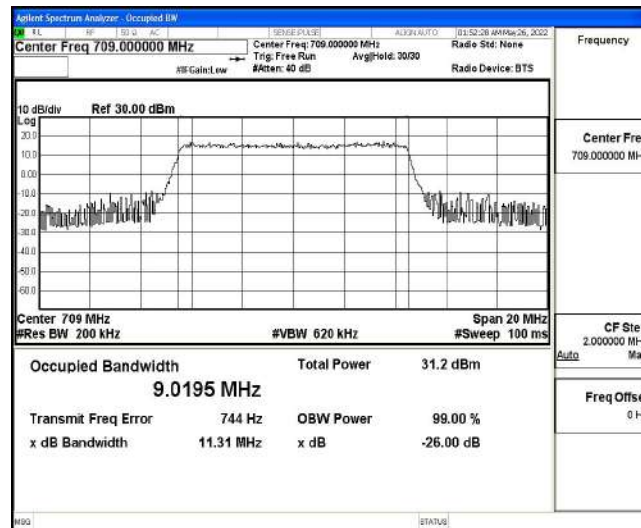


Band17-5MHz-16QAM-23825-25RB#0

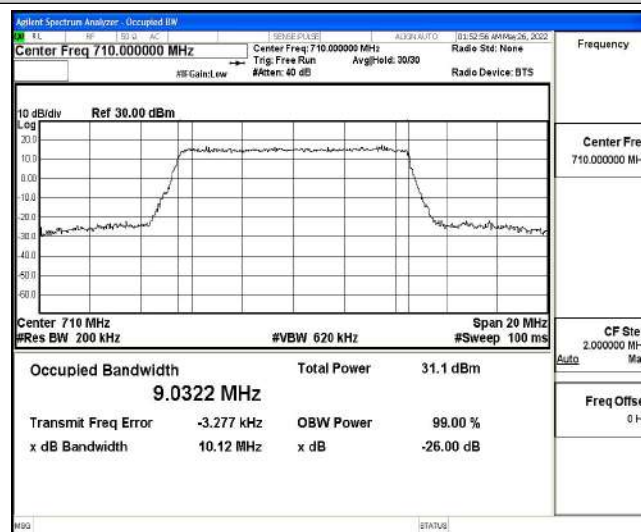




Band17-10MHz-QPSK-23780-50RB#0

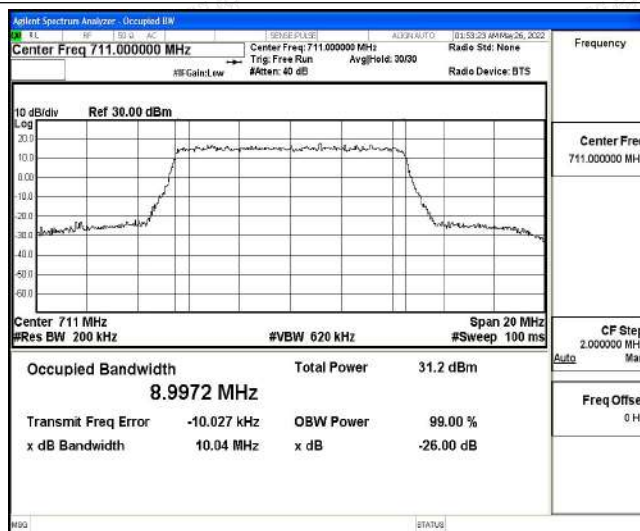


Band17-10MHz-QPSK-23790-50RB#0

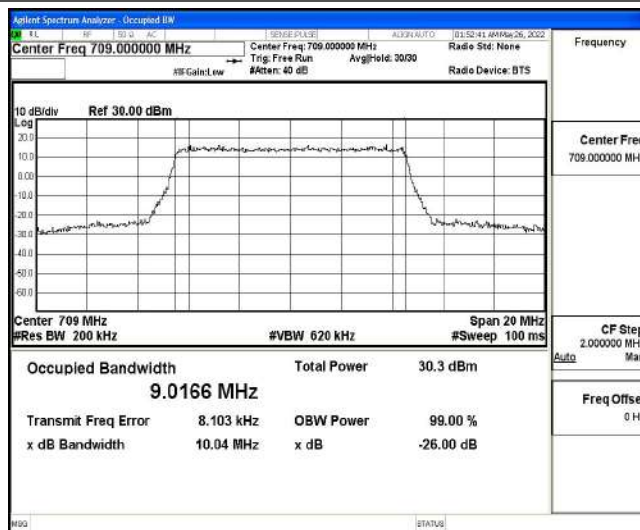


Band17-10MHz-QPSK-23800-50RB#0

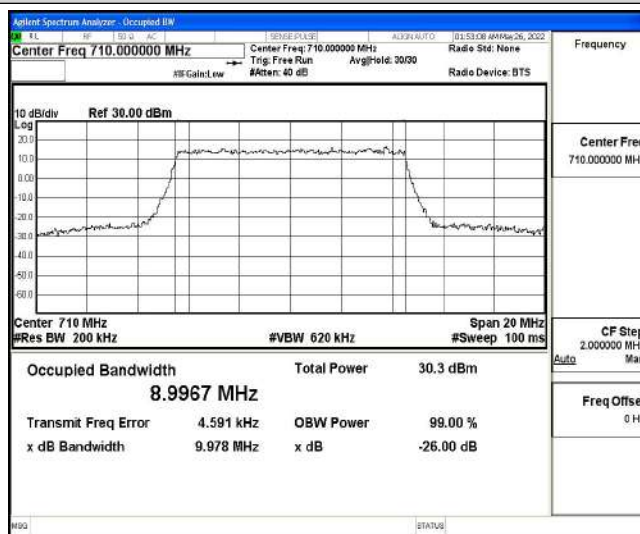




Band17-10MHz-16QAM-23780-50RB#0

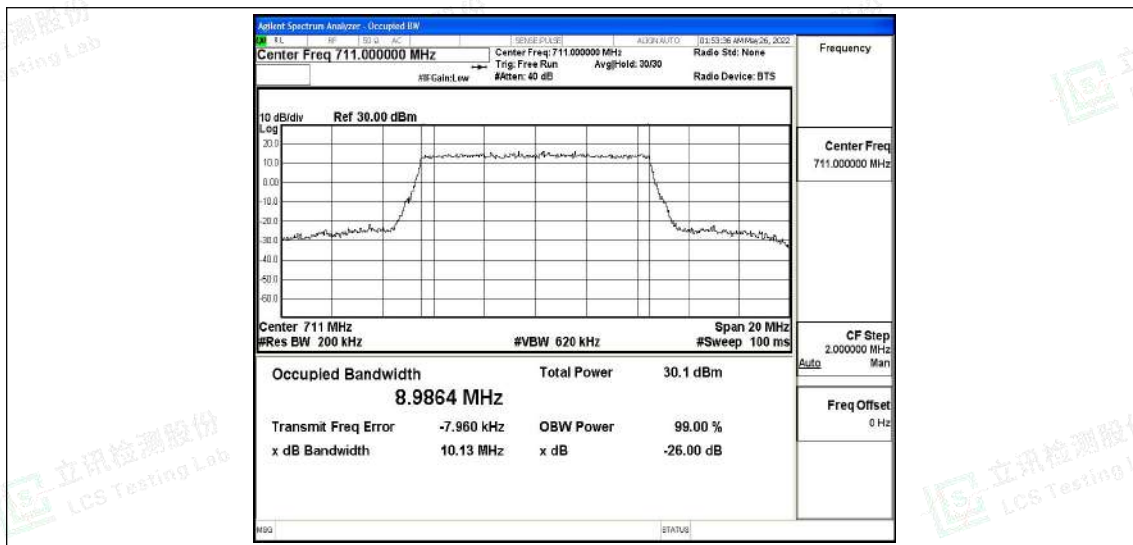


Band17-10MHz-16QAM-23790-50RB#0



Band17-10MHz-16QAM-23800-50RB#0





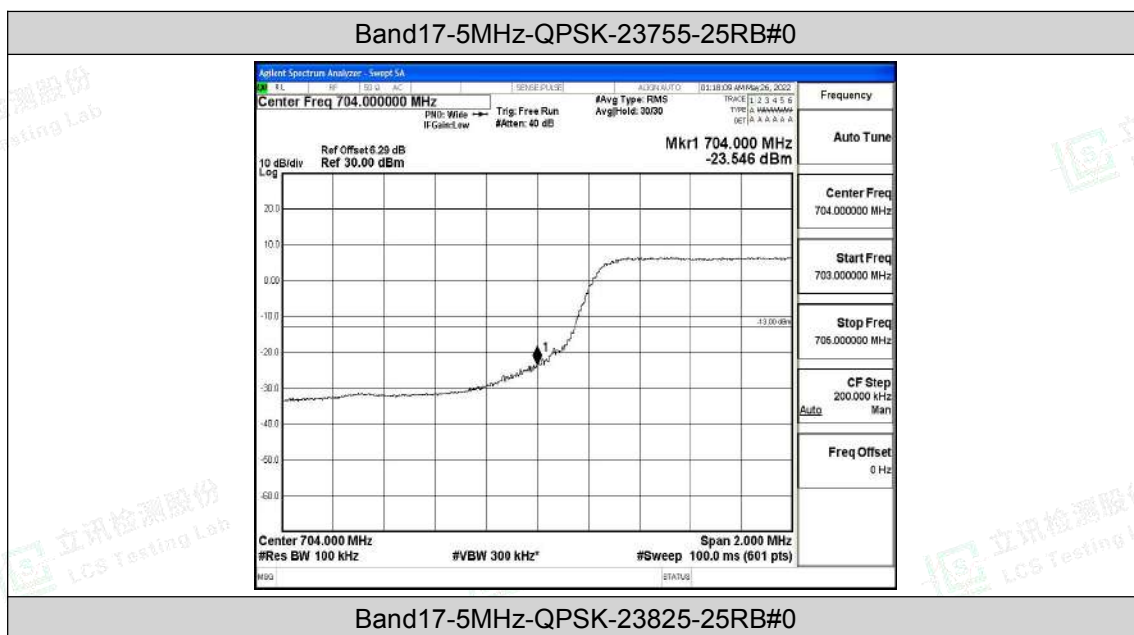


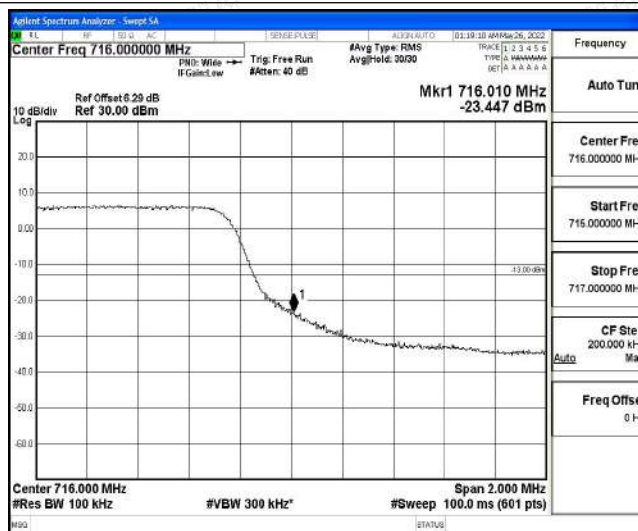
M.4 Band Edge

Test Result

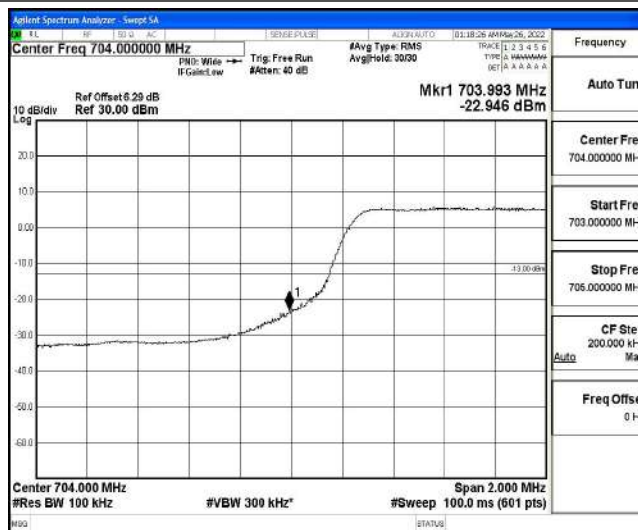
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	-23.55	PASS
Band17	5MHz	QPSK	23825	25RB#0	-23.45	PASS
Band17	5MHz	16QAM	23755	25RB#0	-22.95	PASS
Band17	5MHz	16QAM	23825	25RB#0	-24.47	PASS
Band17	10MHz	QPSK	23780	50RB#0	-28.17,-26.57	PASS
Band17	10MHz	QPSK	23800	50RB#0	-28.07,-29.43	PASS
Band17	10MHz	16QAM	23780	50RB#0	-29.20,-27.61	PASS
Band17	10MHz	16QAM	23800	50RB#0	-27.86,-30.14	PASS

Test Graphs

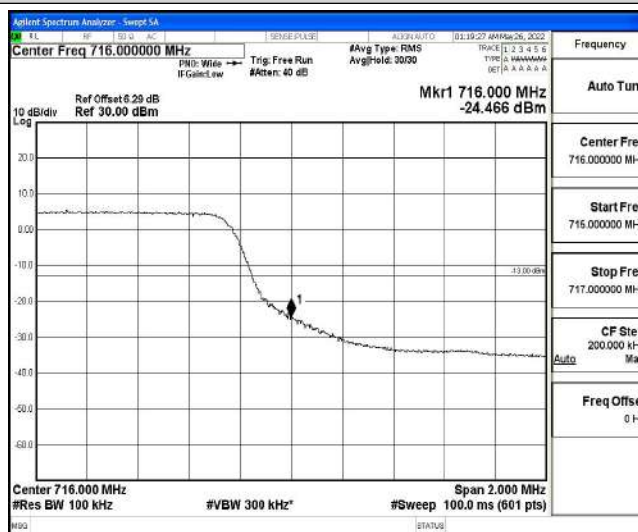




Band17-5MHz-16QAM-23755-25RB#0

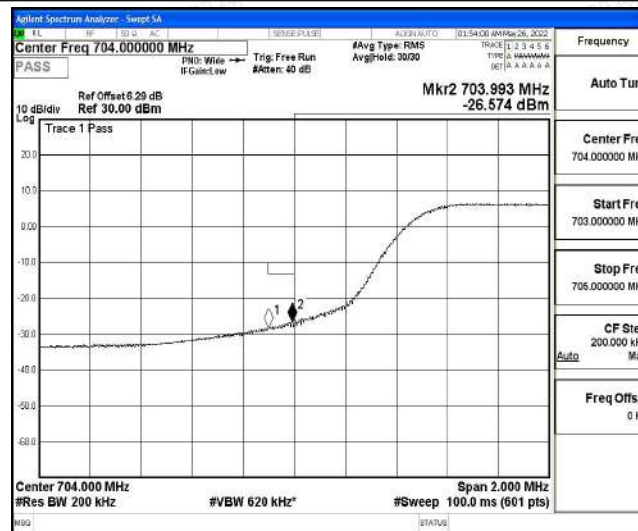


Band17-5MHz-16QAM-23825-25RB#0

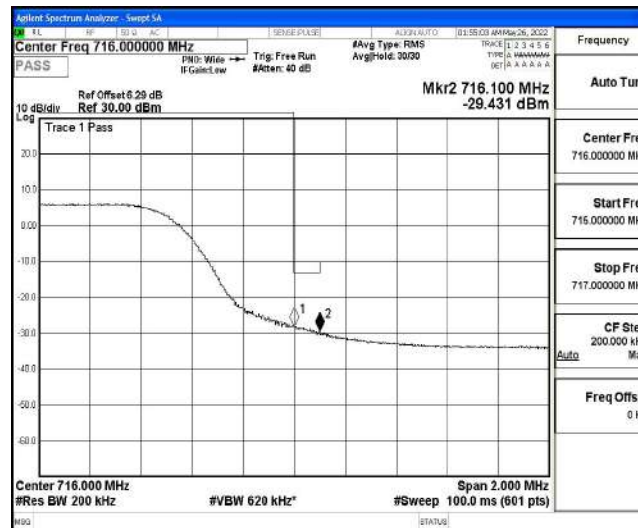


Band17-10MHz-QPSK-23780-50RB#0

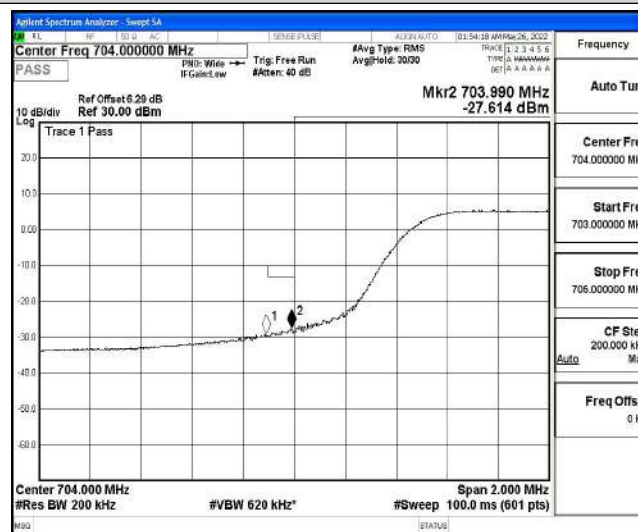




Band17-10MHz-QPSK-23800-50RB#0

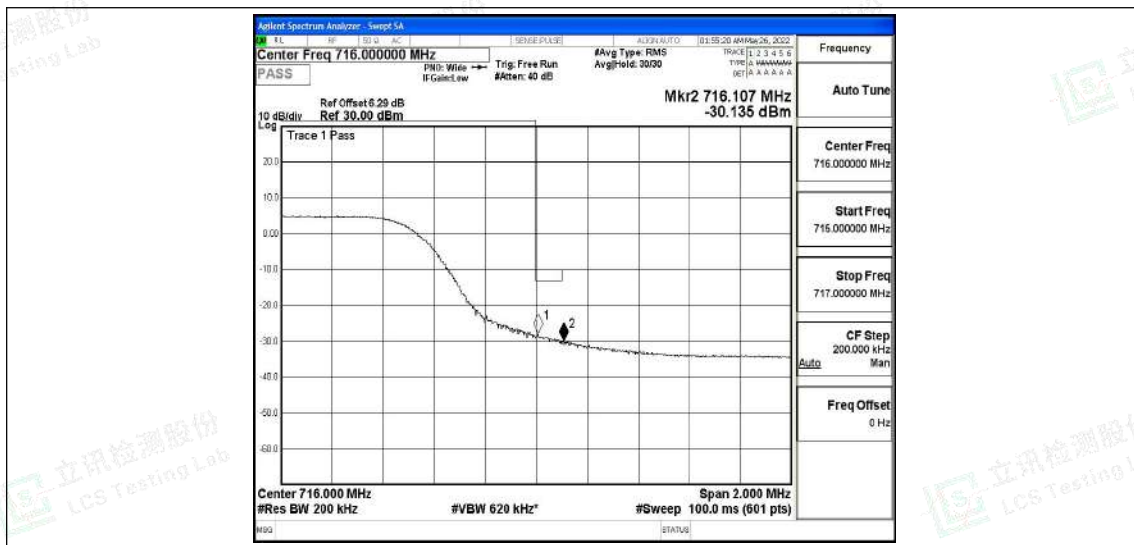


Band17-10MHz-16QAM-23780-50RB#0



Band17-10MHz-16QAM-23800-50RB#0







M.5 Conducted Spurious Emission

Test Result

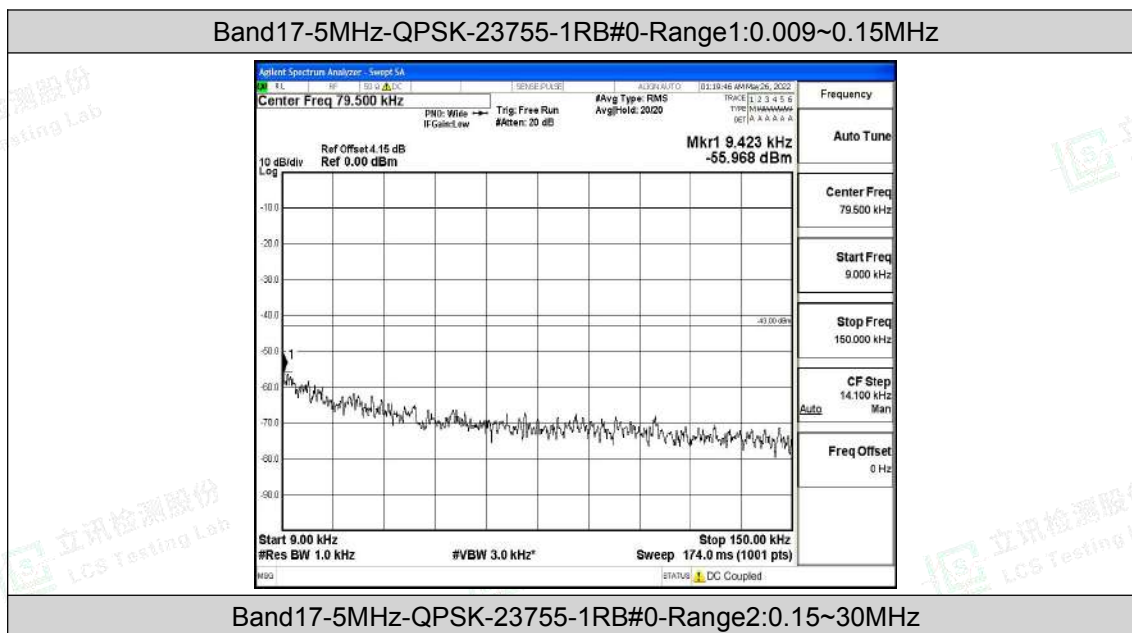
Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	Range1:0.009~0.15MHz	-55.97	PASS
Band17	5MHz	QPSK	23755	1RB#0	Range2:0.15~30MHz	-50.88	PASS
Band17	5MHz	QPSK	23755	1RB#0	Range3:30~1000MHz	-40.73	PASS
Band17	5MHz	QPSK	23755	1RB#0	Range4:1000~10000MHz	-44.98	PASS
Band17	5MHz	QPSK	23790	1RB#0	Range1:0.009~0.15MHz	-55.09	PASS
Band17	5MHz	QPSK	23790	1RB#0	Range2:0.15~30MHz	-50.93	PASS
Band17	5MHz	QPSK	23790	1RB#0	Range3:30~1000MHz	-40.61	PASS
Band17	5MHz	QPSK	23790	1RB#0	Range4:1000~10000MHz	-44.92	PASS
Band17	5MHz	QPSK	23825	1RB#0	Range1:0.009~0.15MHz	-56.07	PASS
Band17	5MHz	QPSK	23825	1RB#0	Range2:0.15~30MHz	-51.7	PASS
Band17	5MHz	QPSK	23825	1RB#0	Range3:30~1000MHz	-39.72	PASS
Band17	5MHz	QPSK	23825	1RB#0	Range4:1000~10000MHz	-44.73	PASS
Band17	5MHz	16QAM	23755	1RB#0	Range1:0.009~0.15MHz	-56.14	PASS
Band17	5MHz	16QAM	23755	1RB#0	Range2:0.15~30MHz	-51.08	PASS
Band17	5MHz	16QAM	23755	1RB#0	Range3:30~1000MHz	-40.65	PASS
Band17	5MHz	16QAM	23755	1RB#0	Range4:1000~10000MHz	-44.88	PASS
Band17	5MHz	16QAM	23790	1RB#0	Range1:0.009~0.15MHz	-55.8	PASS
Band17	5MHz	16QAM	23790	1RB#0	Range2:0.15~30MHz	-49.6	PASS
Band17	5MHz	16QAM	23790	1RB#0	Range3:30~1000MHz	-40.77	PASS
Band17	5MHz	16QAM	23790	1RB#0	Range4:1000~10000MHz	-44.84	PASS
Band17	5MHz	16QAM	23825	1RB#0	Range1:0.009~0.15MHz	-56.34	PASS
Band17	5MHz	16QAM	23825	1RB#0	Range2:0.15~30MHz	-51.4	PASS
Band17	5MHz	16QAM	23825	1RB#0	Range3:30~1000MHz	-40.53	PASS
Band17	5MHz	16QAM	23825	1RB#0	Range4:1000~10000MHz	-44.79	PASS
Band17	10MHz	QPSK	23780	1RB#0	Range1:0.009~0.15MHz	-55.36	PASS
Band17	10MHz	QPSK	23780	1RB#0	Range2:0.15~30MHz	-51.01	PASS
Band17	10MHz	QPSK	23780	1RB#0	Range3:30~1000MHz	-40.01	PASS
Band17	10MHz	QPSK	23780	1RB#0	Range4:1000~10000MHz	-44.83	PASS
Band17	10MHz	QPSK	23790	1RB#0	Range1:0.009~0.15MHz	-54.82	PASS
Band17	10MHz	QPSK	23790	1RB#0	Range2:0.15~30MHz	-51.08	PASS
Band17	10MHz	QPSK	23790	1RB#0	Range3:30~1000MHz	-40.91	PASS
Band17	10MHz	QPSK	23790	1RB#0	Range4:1000~10000MHz	-44.95	PASS
Band17	10MHz	QPSK	23800	1RB#0	Range1:0.009~0.15MHz	-54.92	PASS

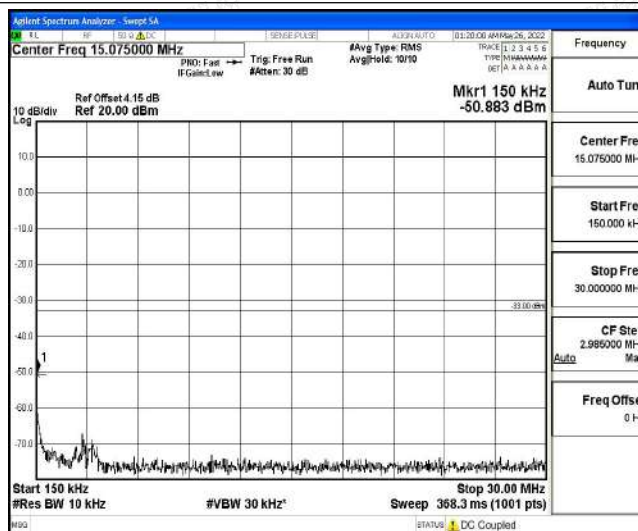




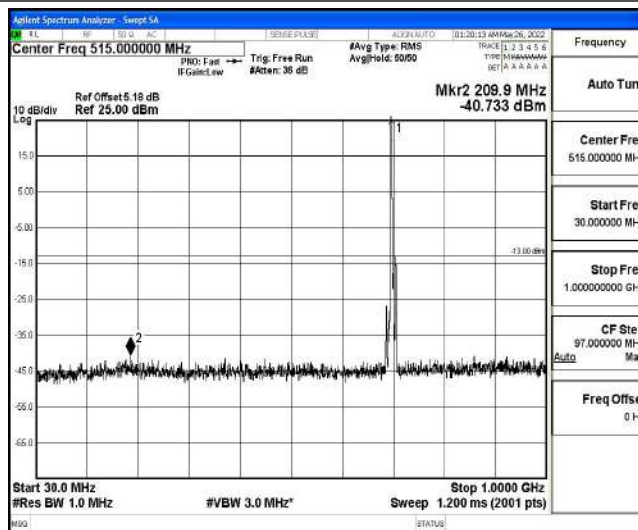
Band17	10MHz	QPSK	23800	1RB#0	Range2:0.15~30MHz	-51.5	PASS
Band17	10MHz	QPSK	23800	1RB#0	Range3:30~1000MHz	-41.17	PASS
Band17	10MHz	QPSK	23800	1RB#0	Range4:1000~10000MHz	-44.93	PASS
Band17	10MHz	16QAM	23780	1RB#0	Range1:0.009~0.15MHz	-55.92	PASS
Band17	10MHz	16QAM	23780	1RB#0	Range2:0.15~30MHz	-52.59	PASS
Band17	10MHz	16QAM	23780	1RB#0	Range3:30~1000MHz	-41.08	PASS
Band17	10MHz	16QAM	23780	1RB#0	Range4:1000~10000MHz	-44.91	PASS
Band17	10MHz	16QAM	23790	1RB#0	Range1:0.009~0.15MHz	-53.98	PASS
Band17	10MHz	16QAM	23790	1RB#0	Range2:0.15~30MHz	-51.1	PASS
Band17	10MHz	16QAM	23790	1RB#0	Range3:30~1000MHz	-39.53	PASS
Band17	10MHz	16QAM	23790	1RB#0	Range4:1000~10000MHz	-44.98	PASS
Band17	10MHz	16QAM	23800	1RB#0	Range1:0.009~0.15MHz	-54.82	PASS
Band17	10MHz	16QAM	23800	1RB#0	Range2:0.15~30MHz	-49.91	PASS
Band17	10MHz	16QAM	23800	1RB#0	Range3:30~1000MHz	-40.8	PASS
Band17	10MHz	16QAM	23800	1RB#0	Range4:1000~10000MHz	-45	PASS

Test Graphs

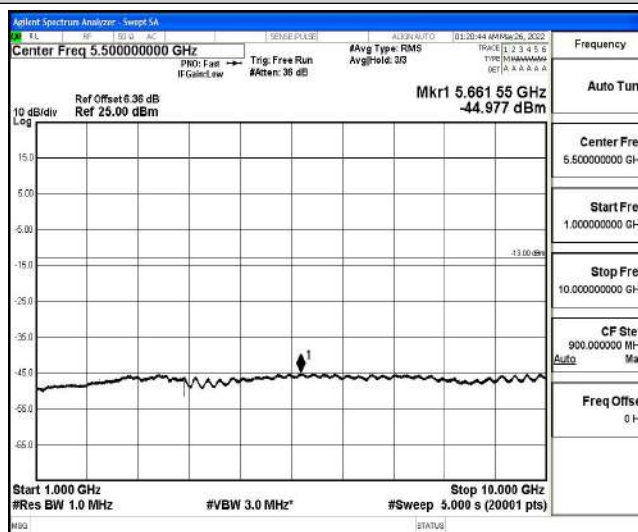




Band17-5MHz-QPSK-23755-1RB#0-Range3:30~1000MHz

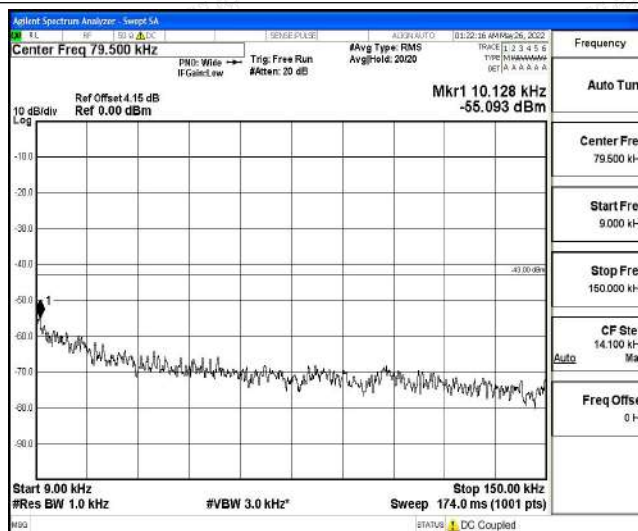


Band17-5MHz-QPSK-23755-1RB#0-Range4:1000~10000MHz

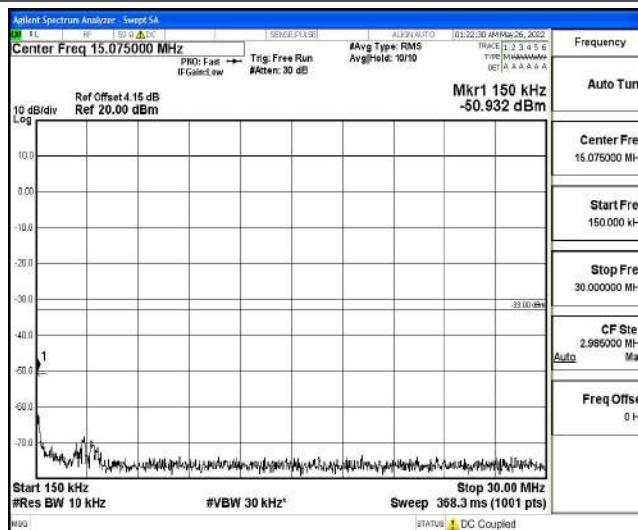


Band17-5MHz-QPSK-23790-1RB#0-Range1:0.009~0.15MHz

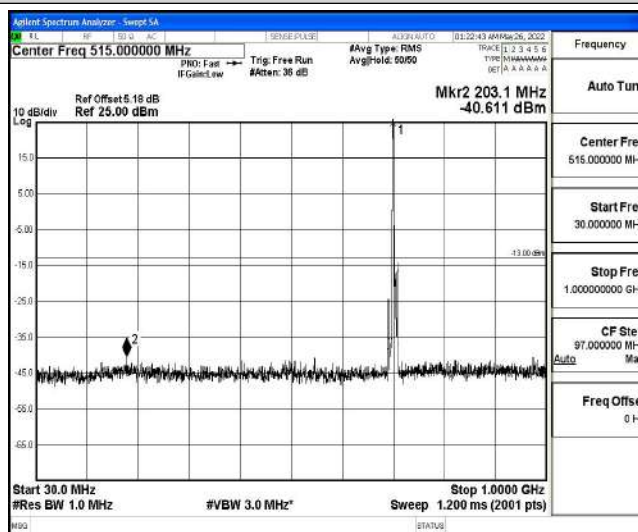




Band17-5MHz-QPSK-23790-1RB#0-Range2:0.15~30MHz

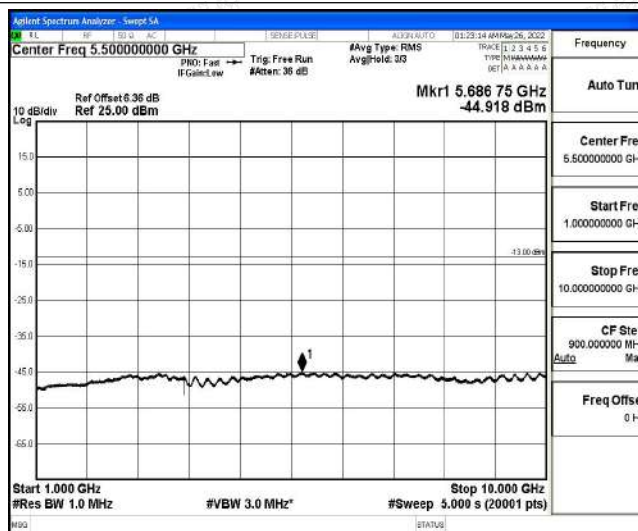


Band17-5MHz-QPSK-23790-1RB#0-Range3:30~1000MHz

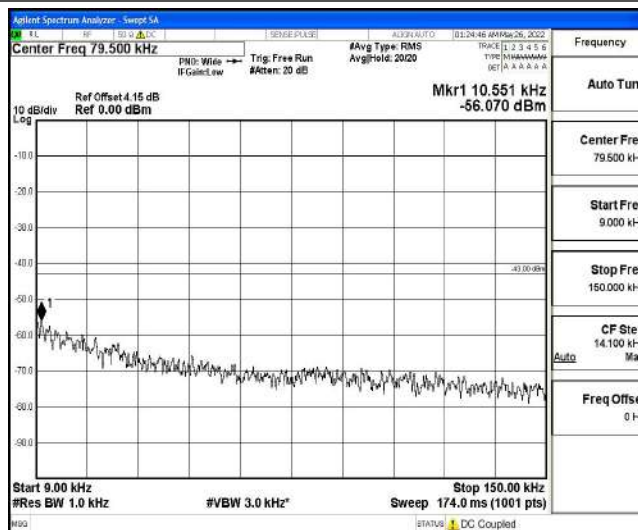


Band17-5MHz-QPSK-23790-1RB#0-Range4:1000~10000MHz

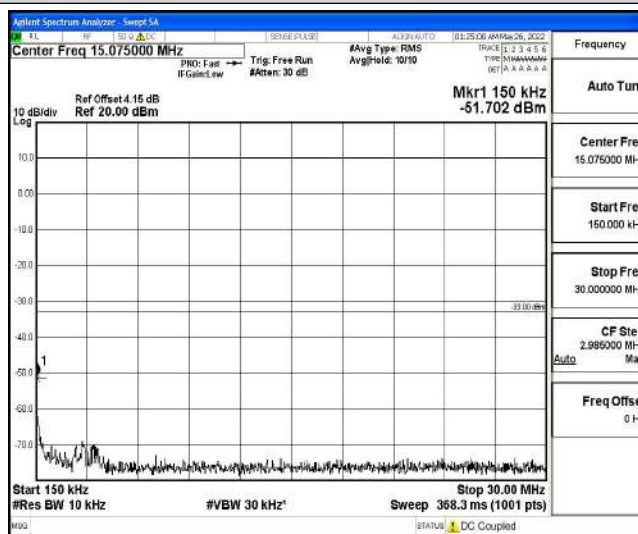




Band17-5MHz-QPSK-23825-1RB#0-Range1:0.009~0.15MHz

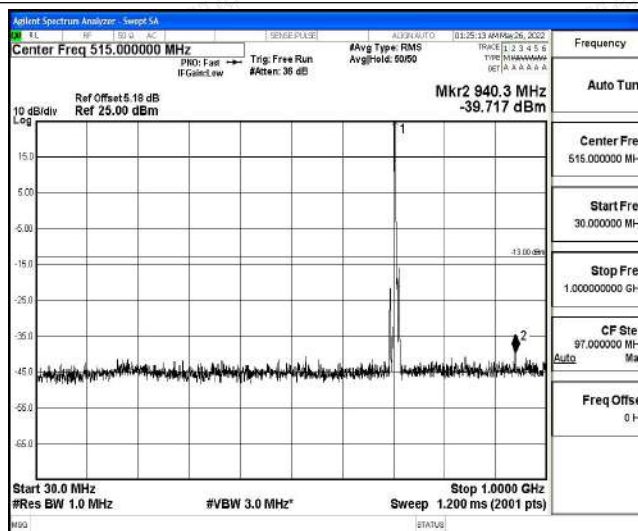


Band17-5MHz-QPSK-23825-1RB#0-Range2:0.15~30MHz

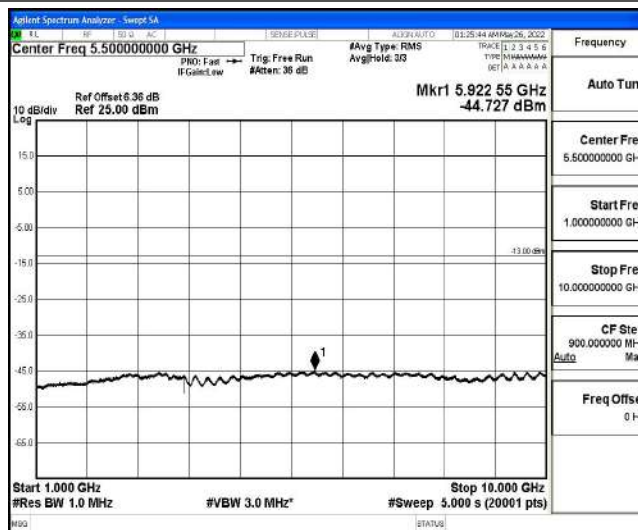


Band17-5MHz-QPSK-23825-1RB#0-Range3:30~1000MHz

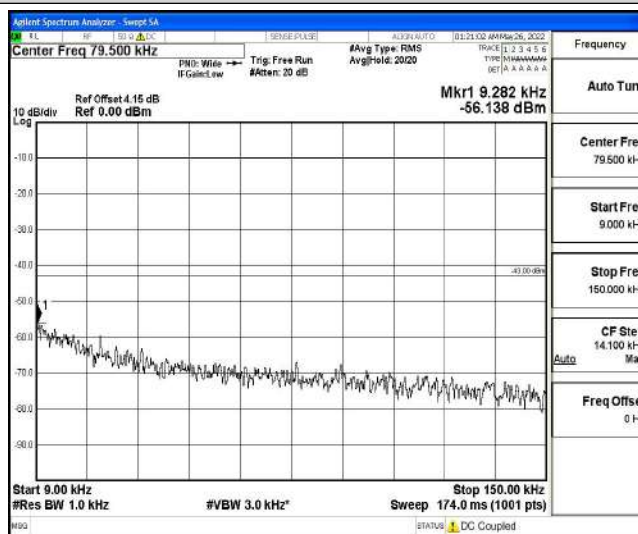




Band17-5MHz-QPSK-23825-1RB#0-Range4:1000~10000MHz

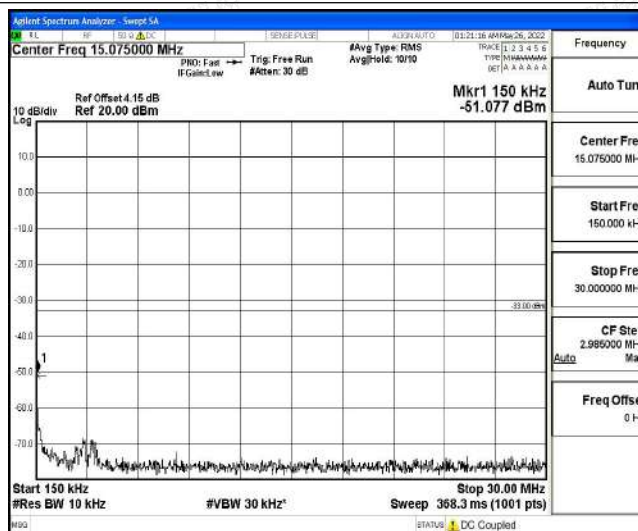


Band17-5MHz-16QAM-23755-1RB#0-Range1:0.009~0.15MHz

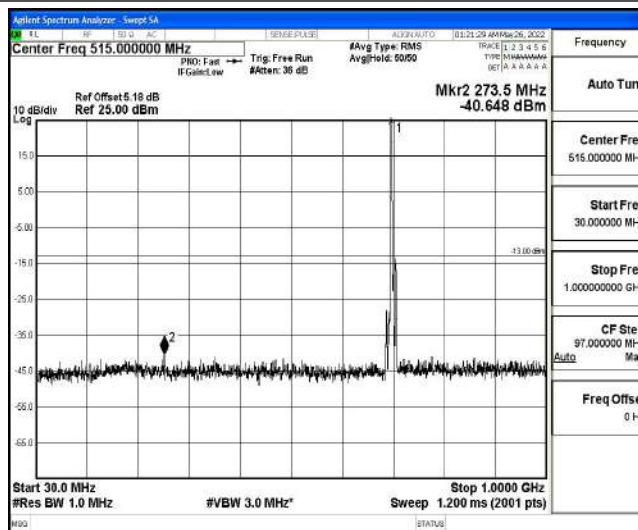


Band17-5MHz-16QAM-23755-1RB#0-Range2:0.15~30MHz

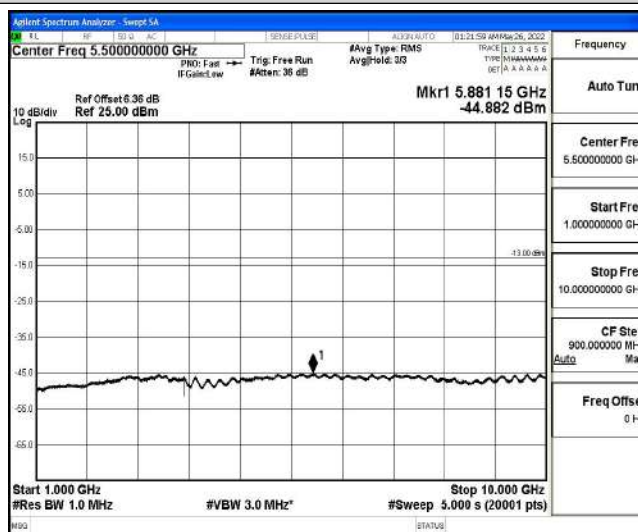




Band17-5MHz-16QAM-23755-1RB#0-Range3:30~1000MHz

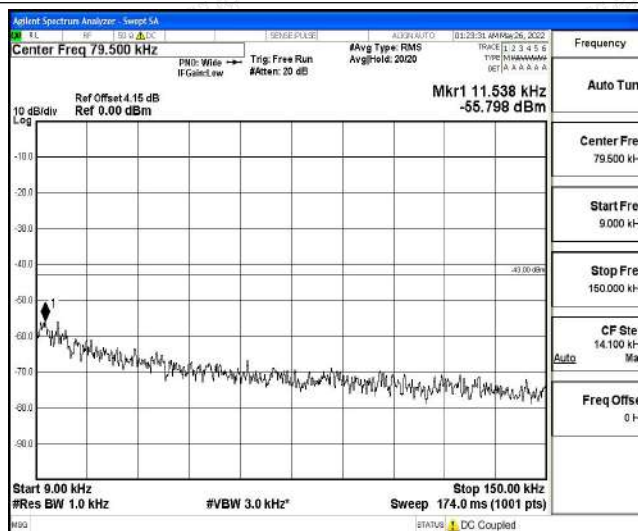


Band17-5MHz-16QAM-23755-1RB#0-Range4:1000~10000MHz

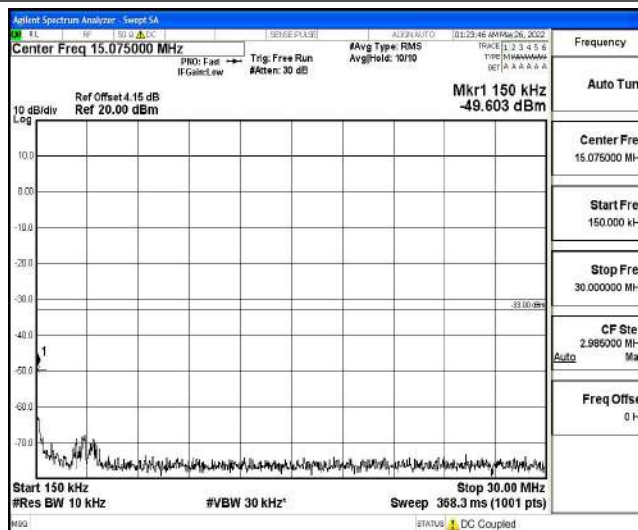


Band17-5MHz-16QAM-23790-1RB#0-Range1:0.009~0.15MHz

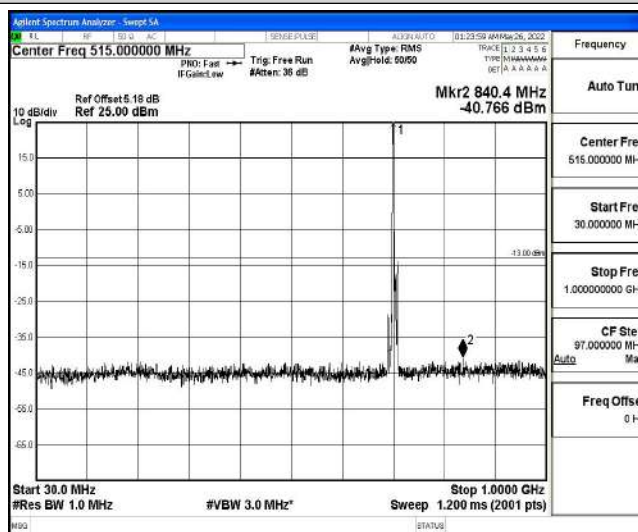




Band17-5MHz-16QAM-23790-1RB#0-Range2:0.15~30MHz

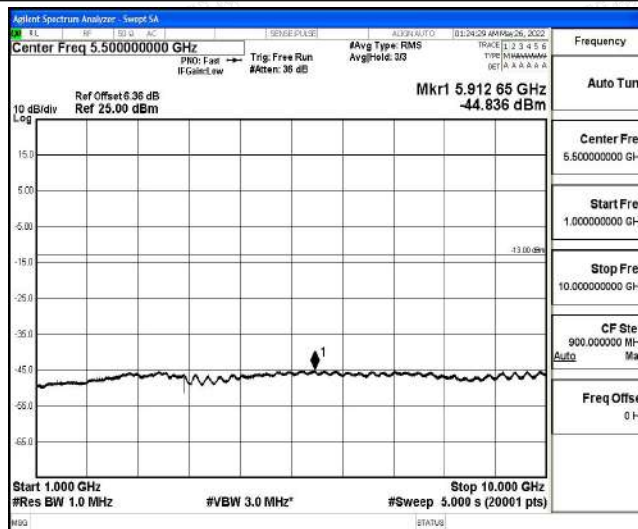


Band17-5MHz-16QAM-23790-1RB#0-Range3:30~1000MHz

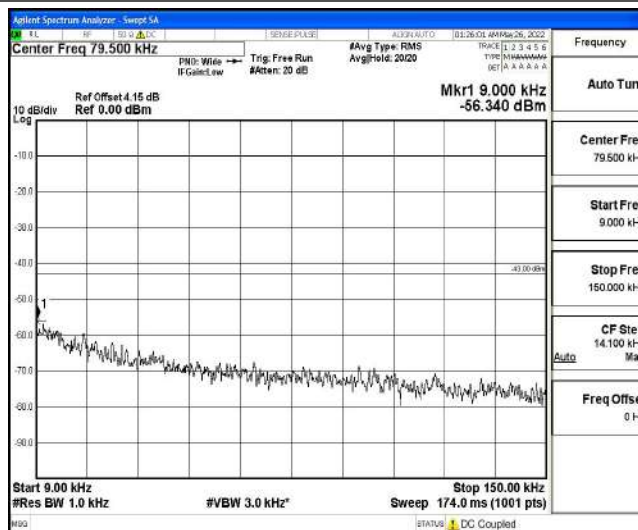


Band17-5MHz-16QAM-23790-1RB#0-Range4:1000~10000MHz

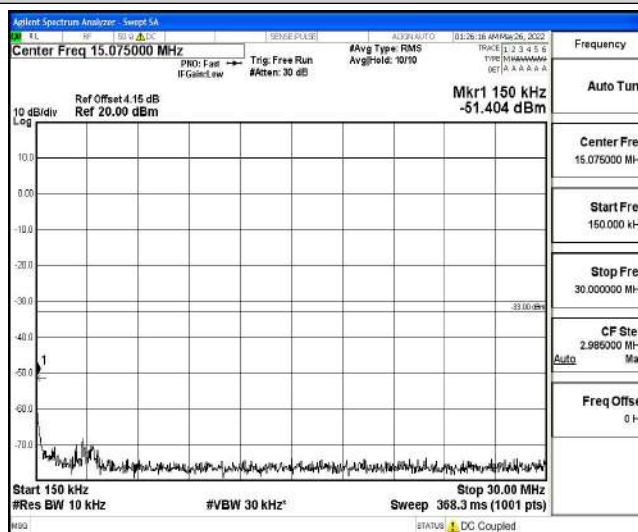




Band17-5MHz-16QAM-23825-1RB#0-Range1:0.009~0.15MHz

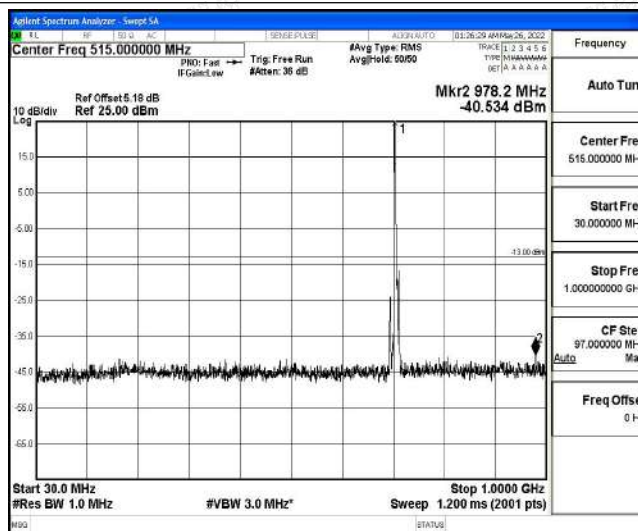


Band17-5MHz-16QAM-23825-1RB#0-Range2:0.15~30MHz

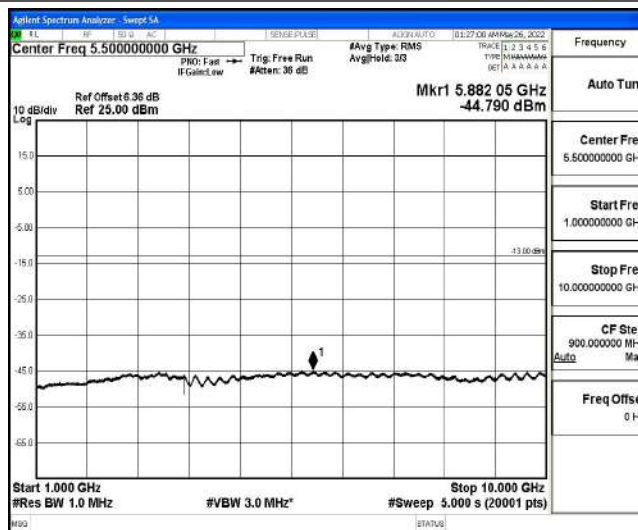


Band17-5MHz-16QAM-23825-1RB#0-Range3:30~1000MHz

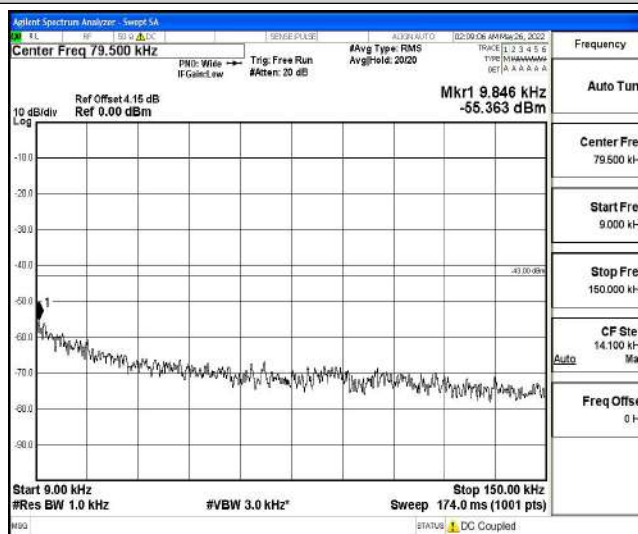




Band17-5MHz-16QAM-23825-1RB#0-Range4:1000~10000MHz

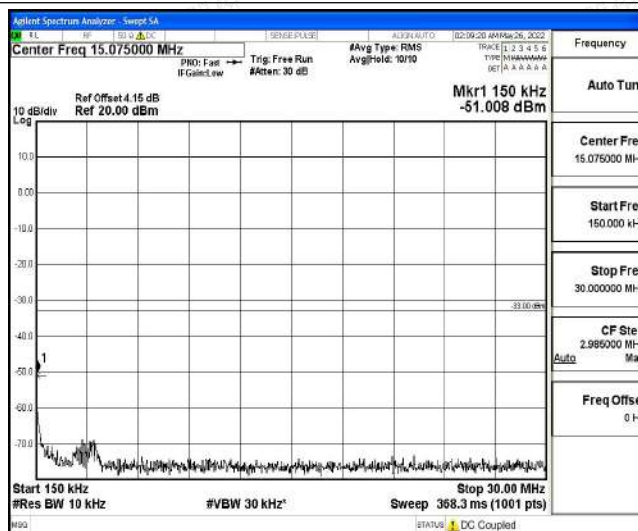


Band17-10MHz-QPSK-23780-1RB#0-Range1:0.009~0.15MHz

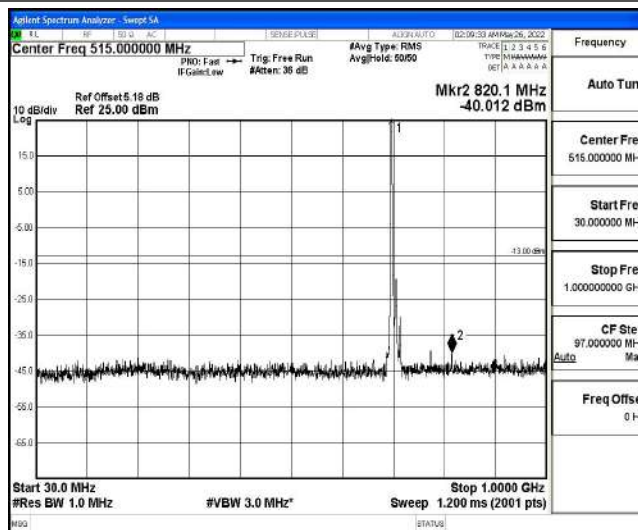


Band17-10MHz-QPSK-23780-1RB#0-Range2:0.15~30MHz

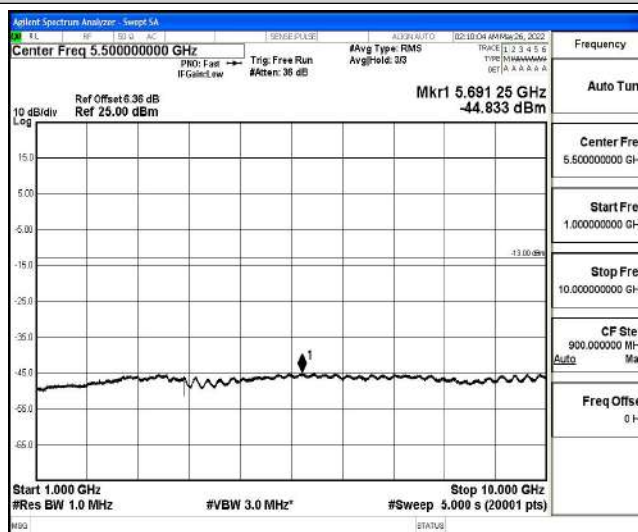




Band17-10MHz-QPSK-23780-1RB#0-Range3:30~1000MHz

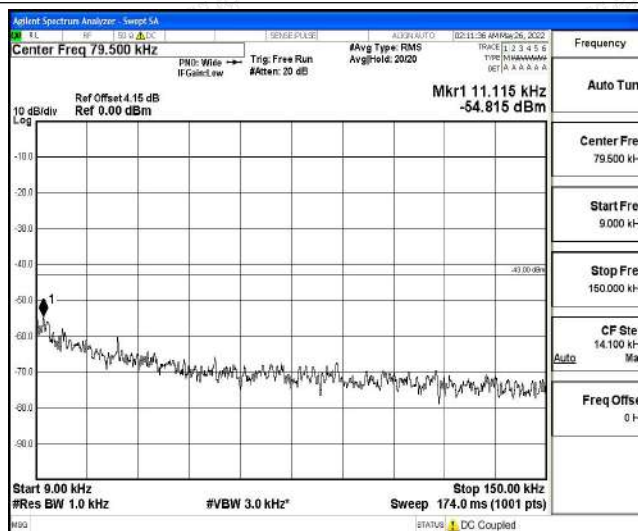


Band17-10MHz-QPSK-23780-1RB#0-Range4:1000~10000MHz

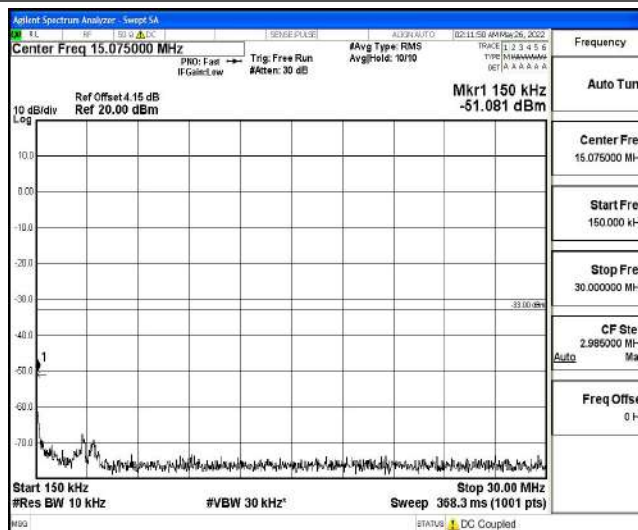


Band17-10MHz-QPSK-23790-1RB#0-Range1:0.009~0.15MHz

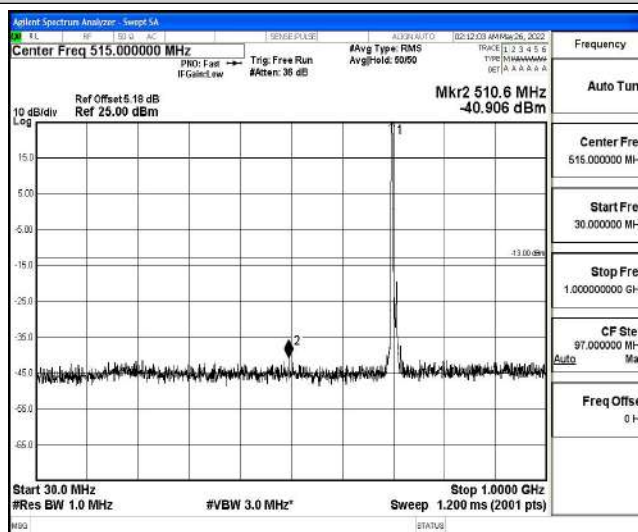




Band17-10MHz-QPSK-23790-1RB#0-Range2:0.15~30MHz

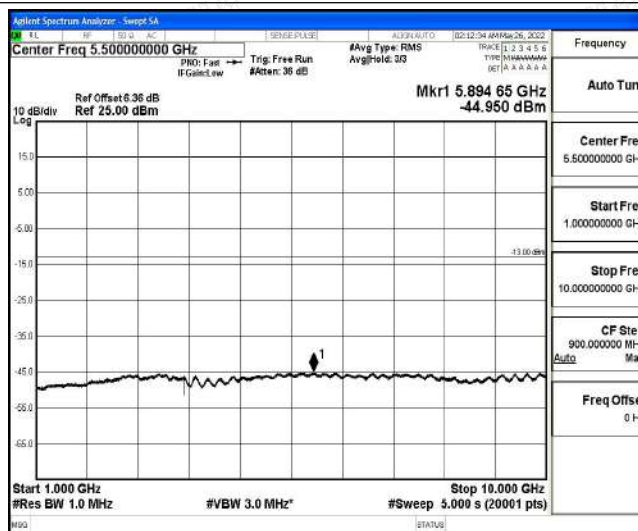


Band17-10MHz-QPSK-23790-1RB#0-Range3:30~1000MHz

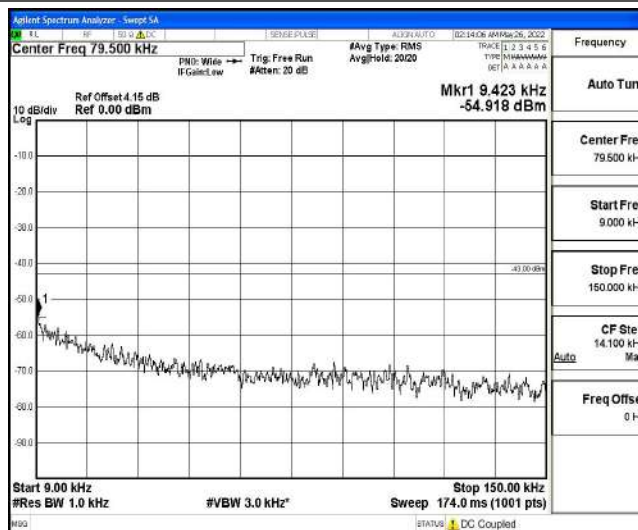


Band17-10MHz-QPSK-23790-1RB#0-Range4:1000~10000MHz

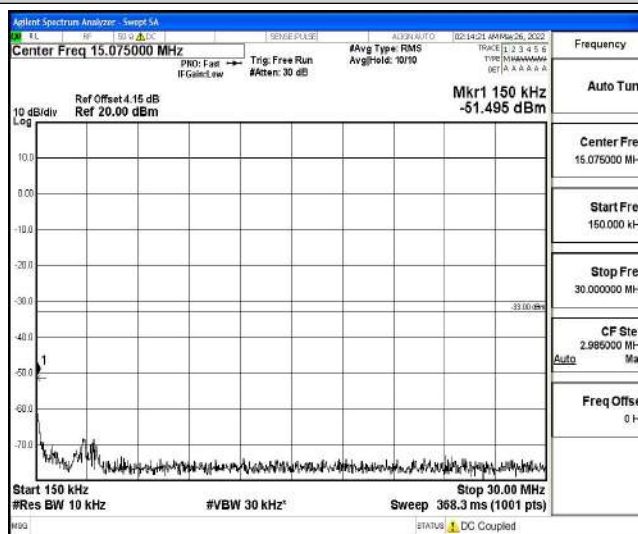




Band17-10MHz-QPSK-23800-1RB#0-Range1:0.009~0.15MHz

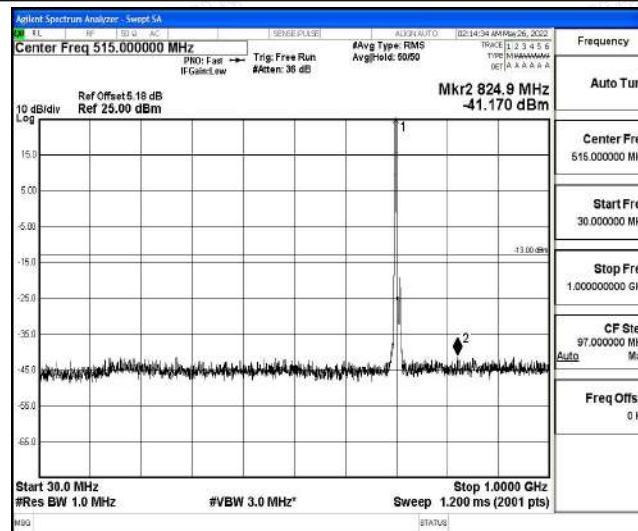


Band17-10MHz-QPSK-23800-1RB#0-Range2:0.15~30MHz

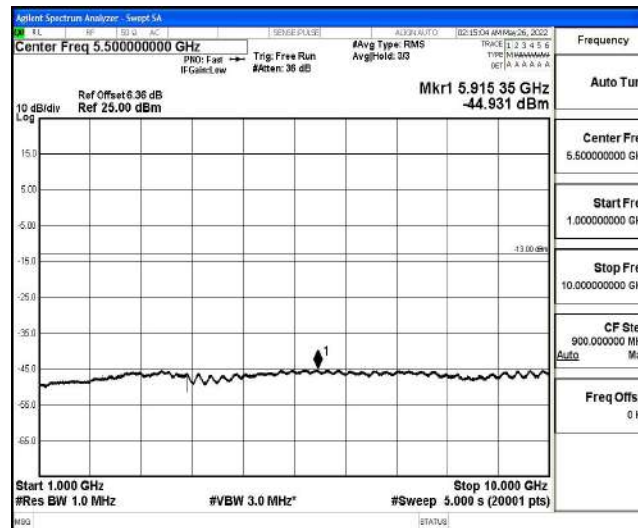


Band17-10MHz-QPSK-23800-1RB#0-Range3:30~1000MHz

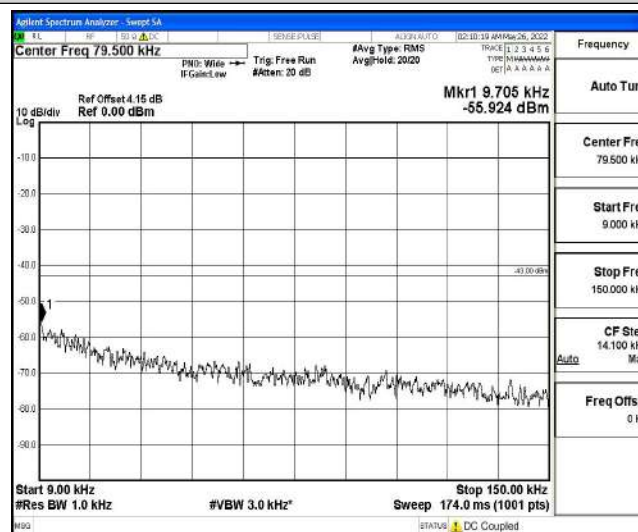




Band17-10MHz-QPSK-23800-1RB#0-Range4:1000~10000MHz

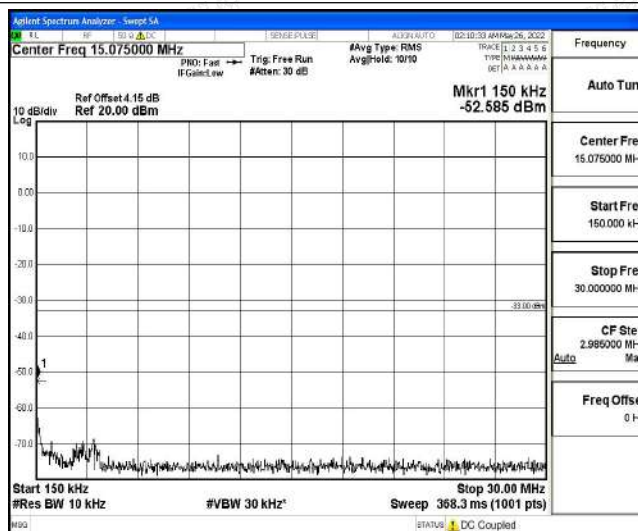


Band17-10MHz-16QAM-23780-1RB#0-Range1:0.009~0.15MHz

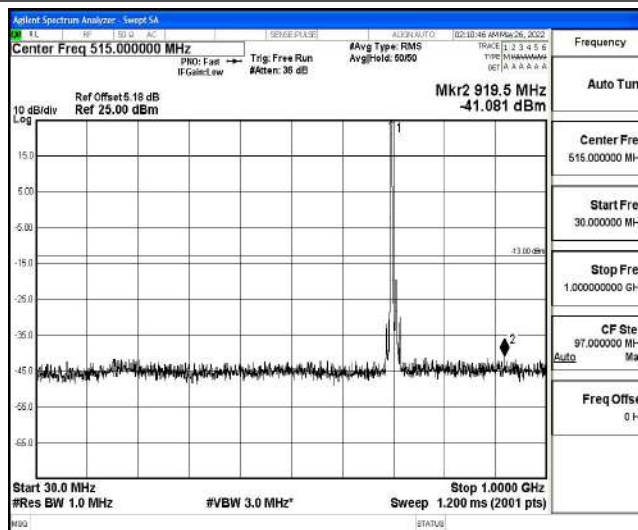


Band17-10MHz-16QAM-23780-1RB#0-Range2:0.15~30MHz

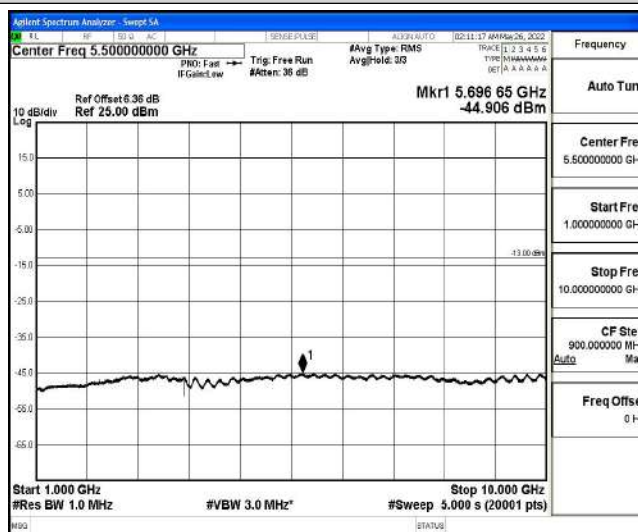




Band17-10MHz-16QAM-23780-1RB#0-Range3:30~1000MHz

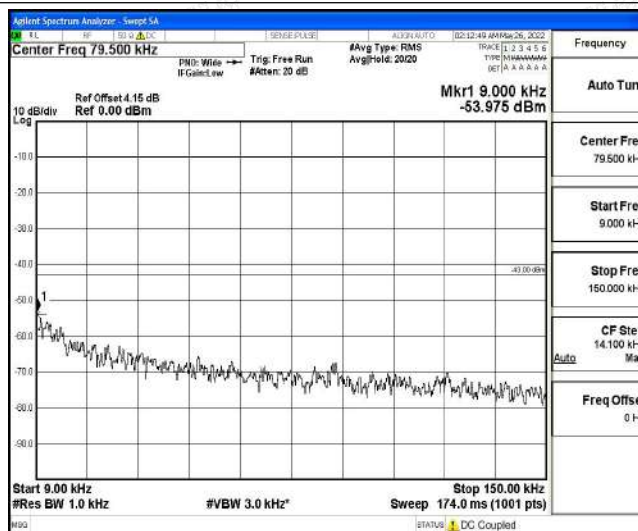


Band17-10MHz-16QAM-23780-1RB#0-Range4:1000~10000MHz

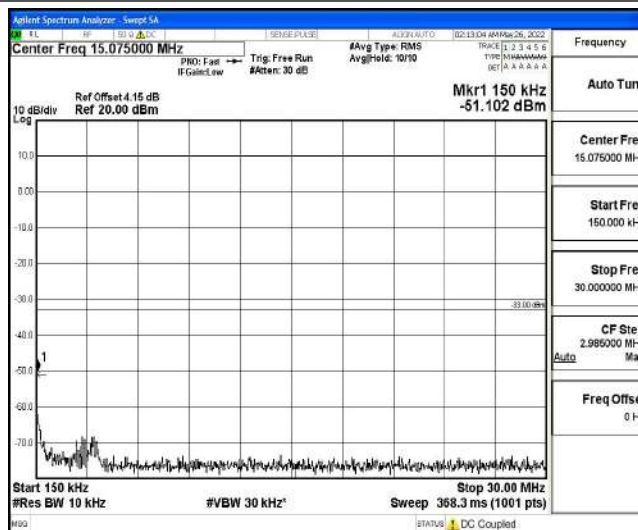


Band17-10MHz-16QAM-23790-1RB#0-Range1:0.009~0.15MHz

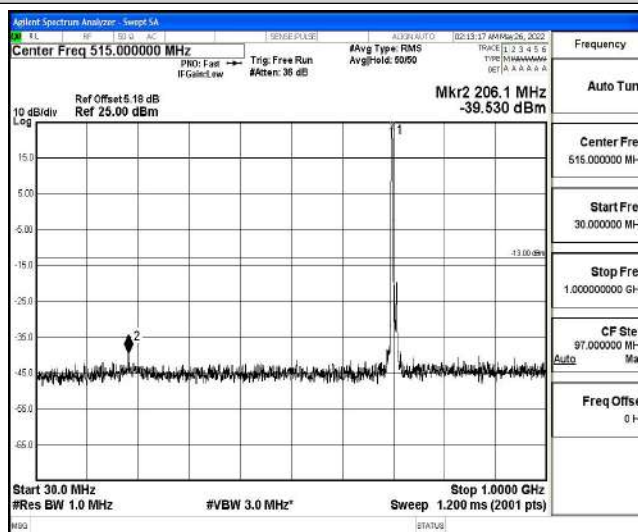




Band17-10MHz-16QAM-23790-1RB#0-Range2:0.15~30MHz

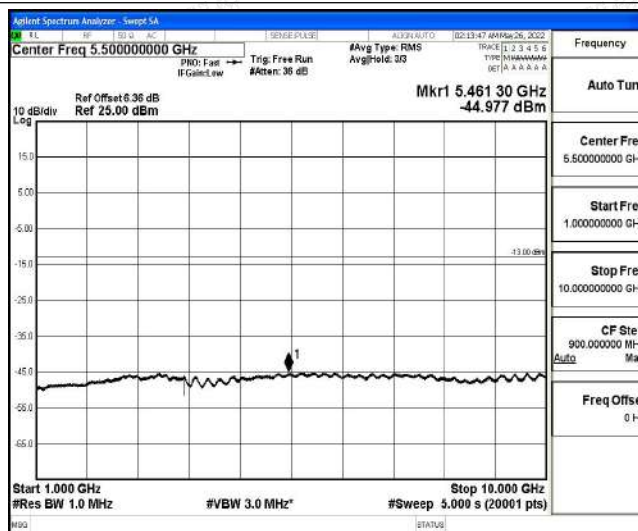


Band17-10MHz-16QAM-23790-1RB#0-Range3:30~1000MHz

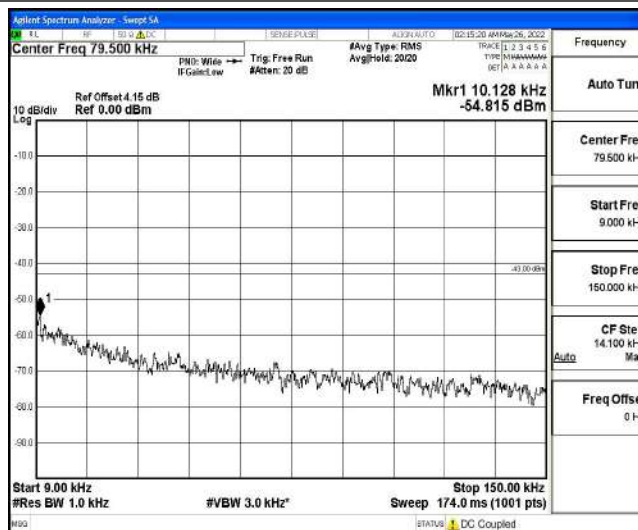


Band17-10MHz-16QAM-23790-1RB#0-Range4:1000~10000MHz

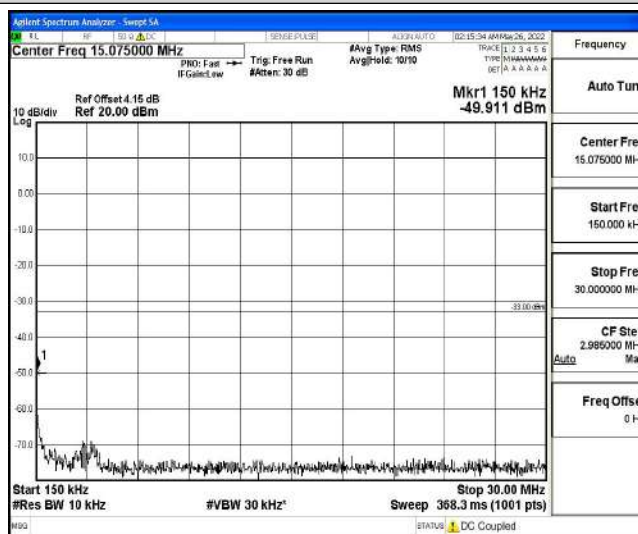




Band17-10MHz-16QAM-23800-1RB#0-Range1:0.009~0.15MHz

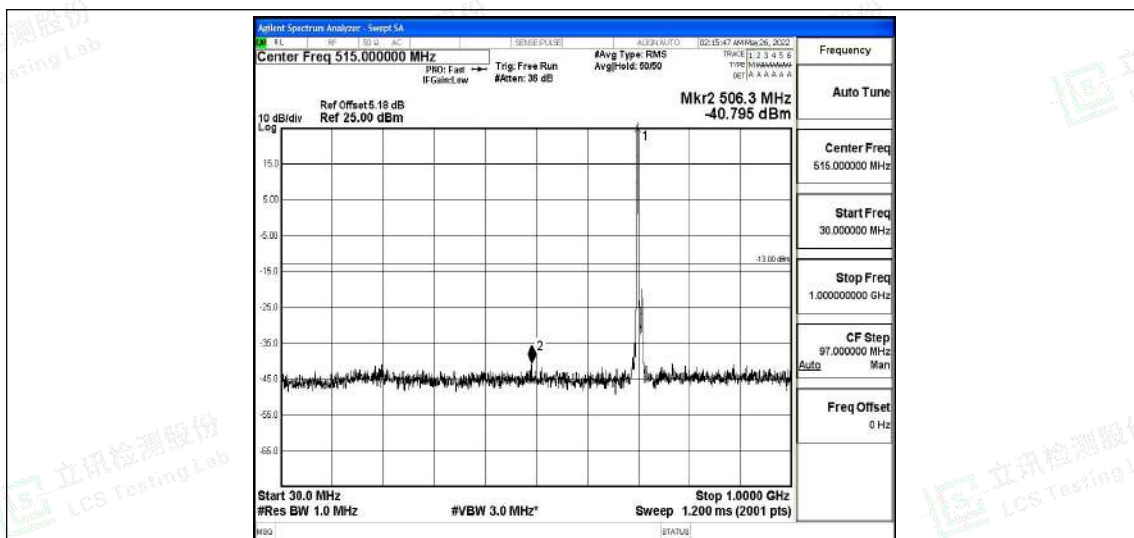


Band17-10MHz-16QAM-23800-1RB#0-Range2:0.15~30MHz



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





Band17-10MHz-16QAM-23800-1RB#0-Range4:1000~10000MHz

