



Appendix I: Test Data for E-UTRA Band 13

Product Name: 6.5-inch 4G Smart Phone

Trade Mark: LOGIC, iSWAG, UNONU

Test Model: L65

Environmental Conditions

Temperature:	21.6° C
Relative Humidity:	52.7%
ATM Pressure:	100.0 kPa
Test Engineer:	Ken He
Supervised by:	Li Huan



I.1 Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#12	22.84	PASS
Band13	5MHz	QPSK	23205	1RB#24	22.66	PASS
Band13	5MHz	QPSK	23205	1RB#0	22.94	PASS
Band13	5MHz	QPSK	23205	12RB#0	21.92	PASS
Band13	5MHz	QPSK	23205	12RB#6	21.85	PASS
Band13	5MHz	QPSK	23205	12RB#13	21.92	PASS
Band13	5MHz	QPSK	23205	25RB#0	21.74	PASS
Band13	5MHz	QPSK	23230	1RB#0	22.83	PASS
Band13	5MHz	QPSK	23230	1RB#12	22.79	PASS
Band13	5MHz	QPSK	23230	1RB#24	22.63	PASS
Band13	5MHz	QPSK	23230	12RB#0	21.84	PASS
Band13	5MHz	QPSK	23230	12RB#6	21.85	PASS
Band13	5MHz	QPSK	23230	12RB#13	22.06	PASS
Band13	5MHz	QPSK	23230	25RB#0	21.75	PASS
Band13	5MHz	QPSK	23255	1RB#24	22.32	PASS
Band13	5MHz	QPSK	23255	1RB#0	22.68	PASS
Band13	5MHz	QPSK	23255	1RB#12	22.36	PASS
Band13	5MHz	QPSK	23255	12RB#6	22.04	PASS
Band13	5MHz	QPSK	23255	12RB#0	22.07	PASS
Band13	5MHz	QPSK	23255	12RB#13	21.50	PASS
Band13	5MHz	QPSK	23255	25RB#0	22.00	PASS
Band13	5MHz	16QAM	23205	1RB#12	21.97	PASS
Band13	5MHz	16QAM	23205	1RB#0	22.02	PASS
Band13	5MHz	16QAM	23205	1RB#24	21.85	PASS
Band13	5MHz	16QAM	23205	12RB#13	21.35	PASS
Band13	5MHz	16QAM	23205	12RB#6	21.51	PASS
Band13	5MHz	16QAM	23205	12RB#0	21.48	PASS
Band13	5MHz	16QAM	23205	25RB#0	21.38	PASS
Band13	5MHz	16QAM	23230	1RB#0	21.78	PASS
Band13	5MHz	16QAM	23230	1RB#12	21.66	PASS
Band13	5MHz	16QAM	23230	1RB#24	21.96	PASS
Band13	5MHz	16QAM	23230	12RB#0	21.19	PASS
Band13	5MHz	16QAM	23230	12RB#6	21.18	PASS



Band13	5MHz	16QAM	23230	12RB#13	21.06	PASS
Band13	5MHz	16QAM	23230	25RB#0	21.29	PASS
Band13	5MHz	16QAM	23255	1RB#0	21.04	PASS
Band13	5MHz	16QAM	23255	1RB#12	21.35	PASS
Band13	5MHz	16QAM	23255	1RB#24	20.69	PASS
Band13	5MHz	16QAM	23255	12RB#13	20.88	PASS
Band13	5MHz	16QAM	23255	12RB#0	21.06	PASS
Band13	5MHz	16QAM	23255	12RB#6	21.05	PASS
Band13	5MHz	16QAM	23255	25RB#0	21.02	PASS
Band13	10MHz	QPSK	23230	1RB#49	22.46	PASS
Band13	10MHz	QPSK	23230	1RB#24	22.70	PASS
Band13	10MHz	QPSK	23230	1RB#0	22.93	PASS
Band13	10MHz	QPSK	23230	25RB#0	21.82	PASS
Band13	10MHz	QPSK	23230	25RB#12	21.71	PASS
Band13	10MHz	QPSK	23230	25RB#25	22.06	PASS
Band13	10MHz	QPSK	23230	50RB#0	21.77	PASS
Band13	10MHz	16QAM	23230	1RB#49	21.09	PASS
Band13	10MHz	16QAM	23230	1RB#0	21.63	PASS
Band13	10MHz	16QAM	23230	1RB#24	21.42	PASS
Band13	10MHz	16QAM	23230	25RB#0	21.36	PASS
Band13	10MHz	16QAM	23230	25RB#12	21.40	PASS
Band13	10MHz	16QAM	23230	25RB#25	21.04	PASS
Band13	10MHz	16QAM	23230	50RB#0	21.22	PASS



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

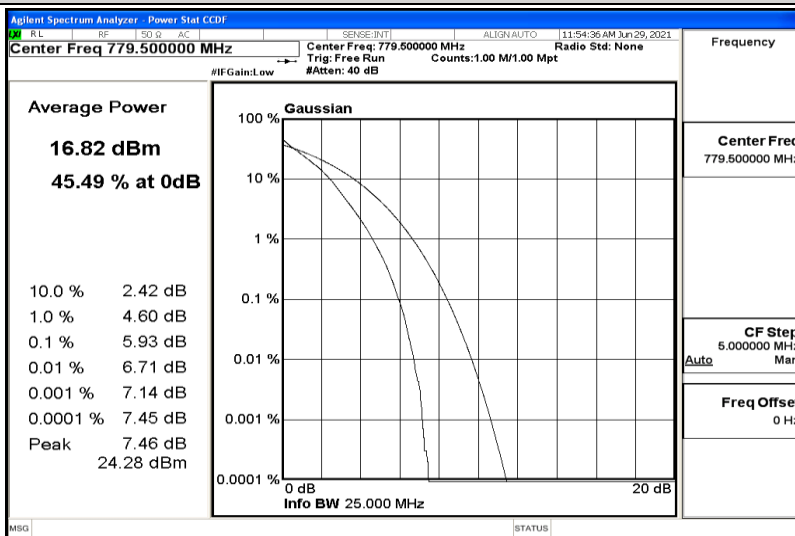
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	5.93	13	PASS
Band13	5MHz	QPSK	23230	25RB#0	5.84	13	PASS
Band13	5MHz	QPSK	23255	25RB#0	5.59	13	PASS
Band13	5MHz	16QAM	23205	25RB#0	6.51	13	PASS
Band13	5MHz	16QAM	23230	25RB#0	6.56	13	PASS
Band13	5MHz	16QAM	23255	25RB#0	6.40	13	PASS
Band13	10MHz	QPSK	23230	50RB#0	5.80	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	6.51	13	PASS

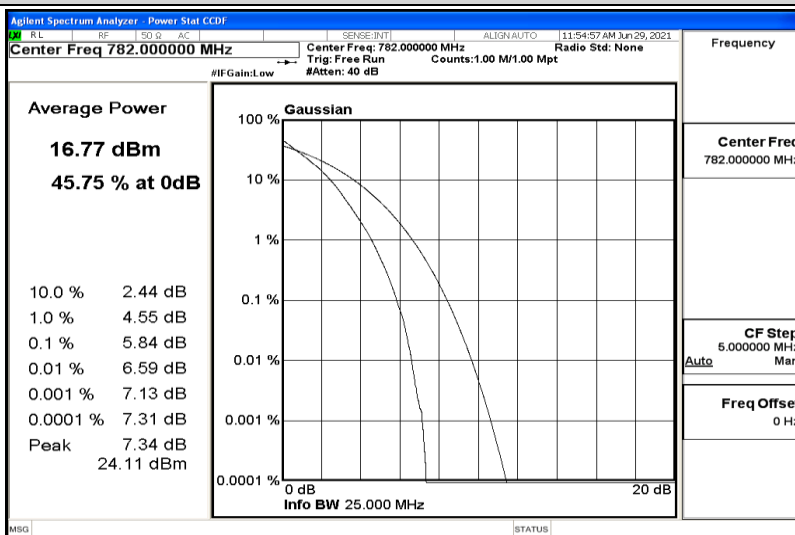


Test Graphs

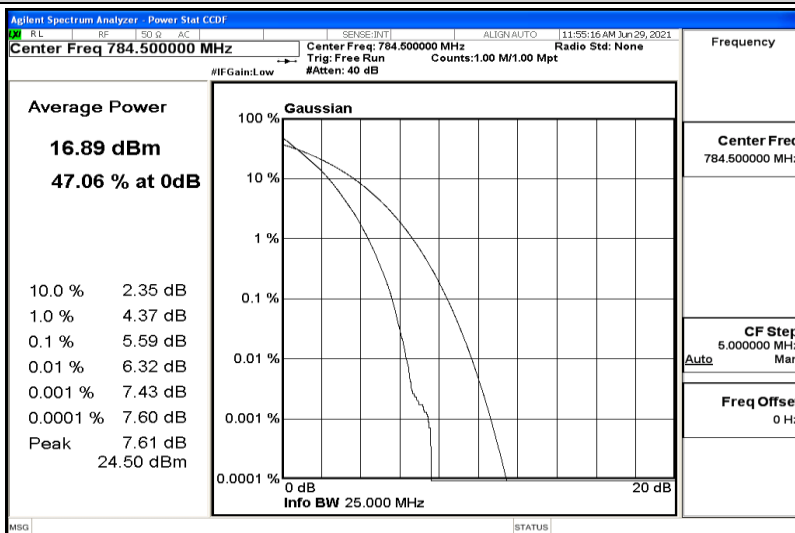
Band13-5MHz-QPSK-23205-25RB#0



Band13-5MHz-QPSK-23230-25RB#0

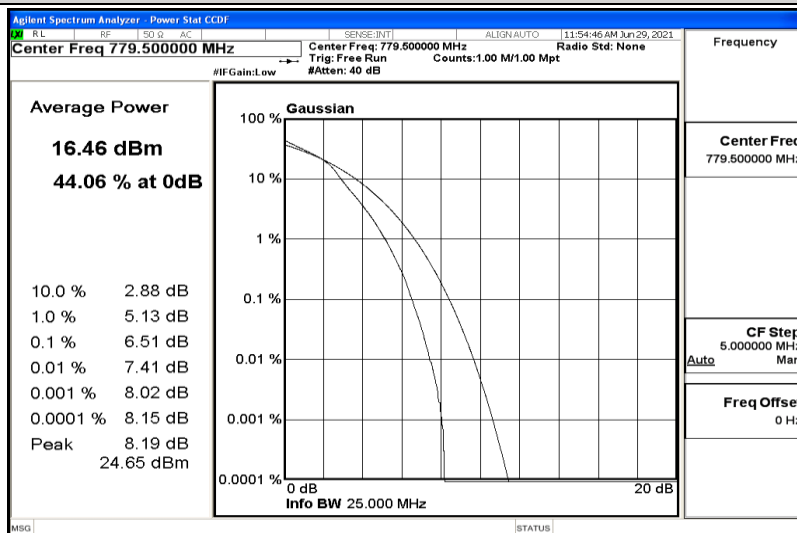


Band13-5MHz-QPSK-23255-25RB#0

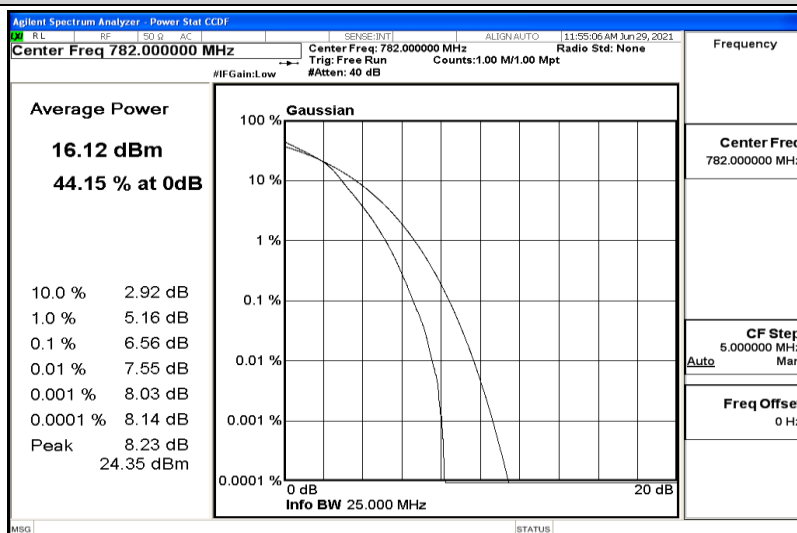




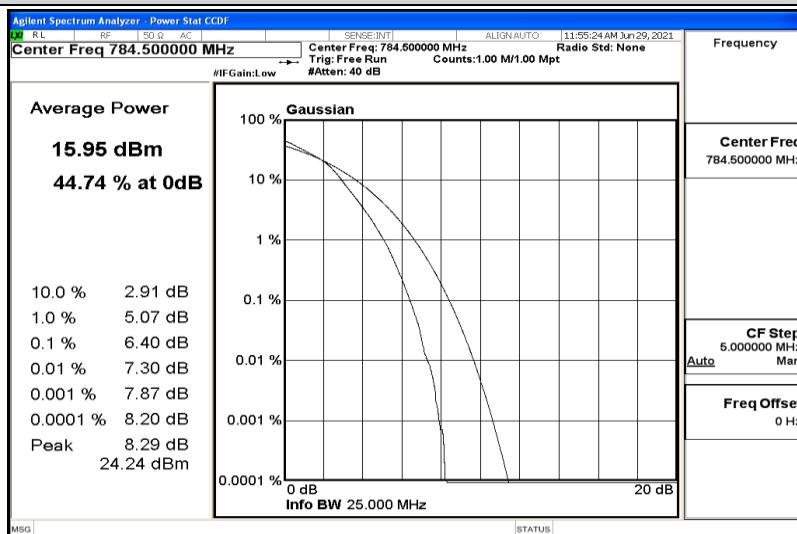
Band13-5MHz-16QAM-23205-25RB#0



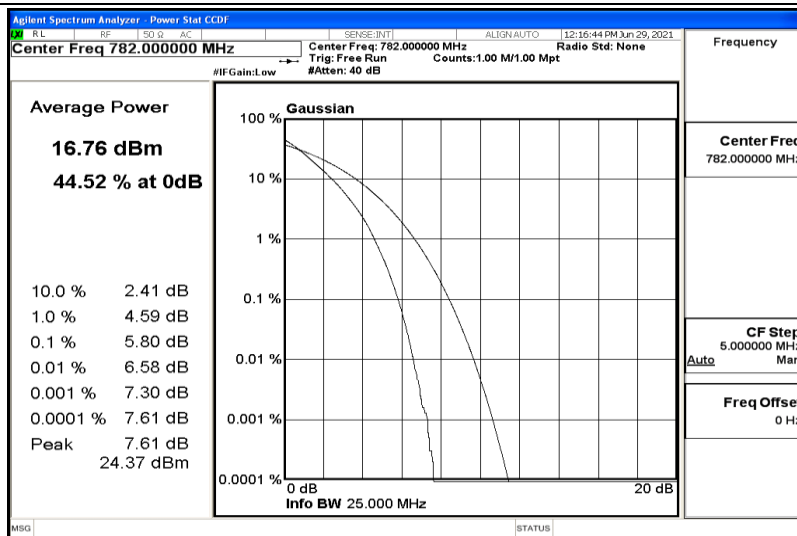
Band13-5MHz-16QAM-23230-25RB#0



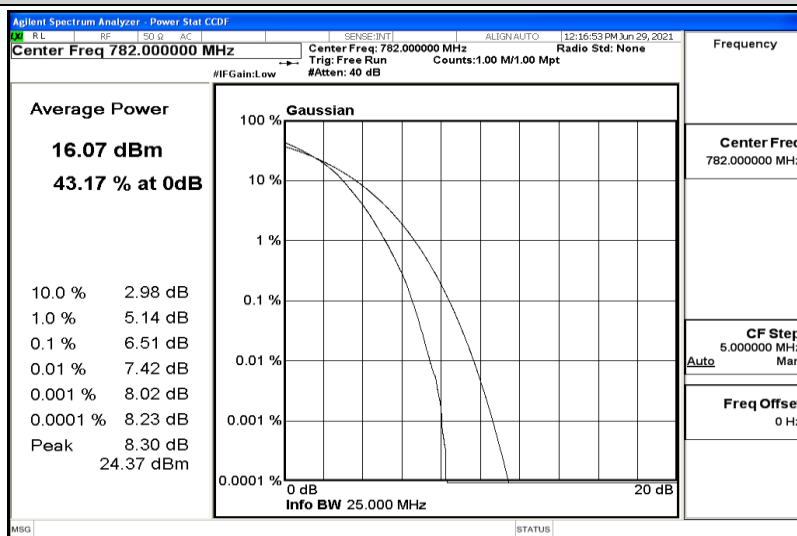
Band13-5MHz-16QAM-23255-25RB#0



Band13-10MHz-QPSK-23230-50RB#0



Band13-10MHz-16QAM-23230-50RB#0





I.3 26dB Bandwidth and Occupied Bandwidth

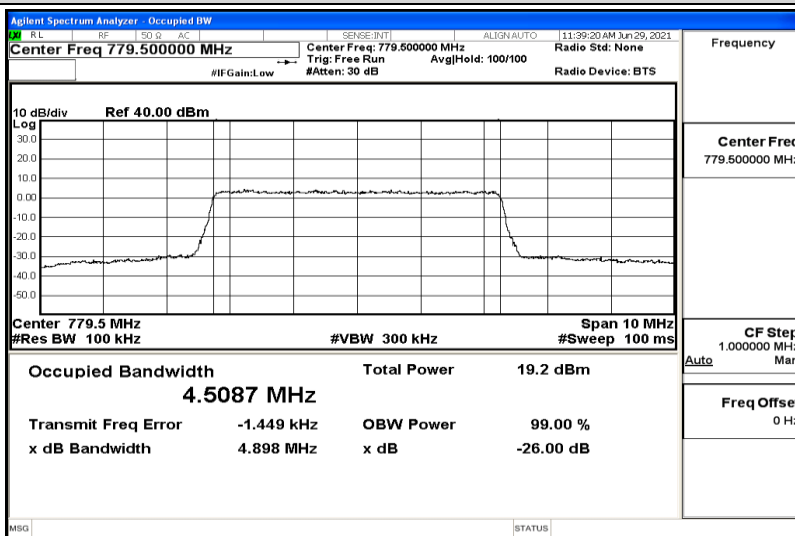
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.5087	4.898	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.5086	4.908	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.4864	4.853	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.5031	4.927	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.5044	4.881	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.4937	4.856	PASS
Band13	10MHz	QPSK	23230	50RB#0	9.0114	9.591	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.9968	9.604	PASS

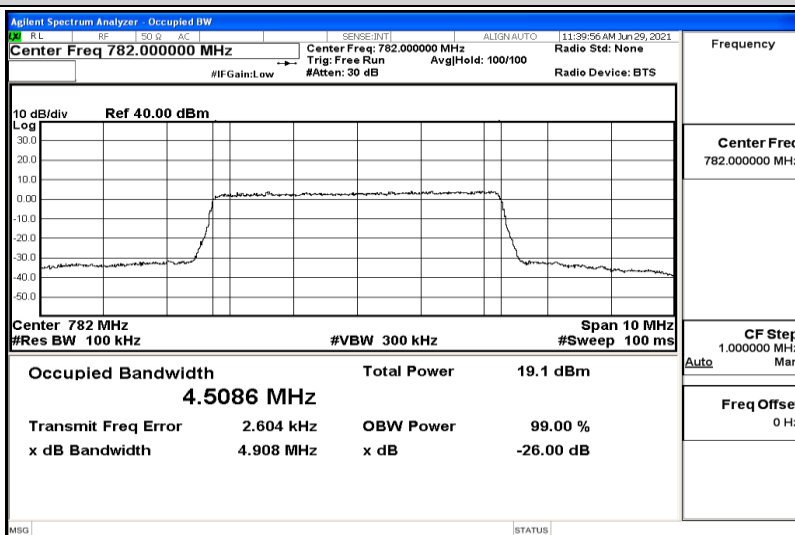


Test Graphs

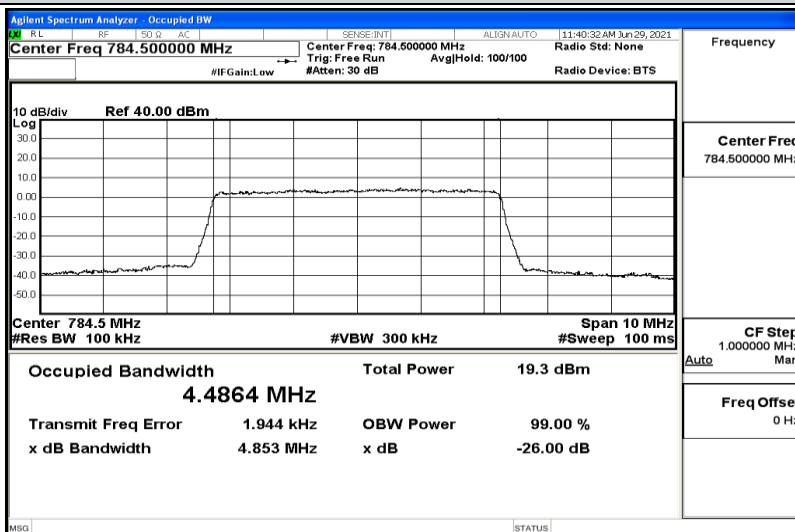
Band13-5MHz-QPSK-23205-25RB#0-4.5087



Band13-5MHz-QPSK-23230-25RB#0-4.5086

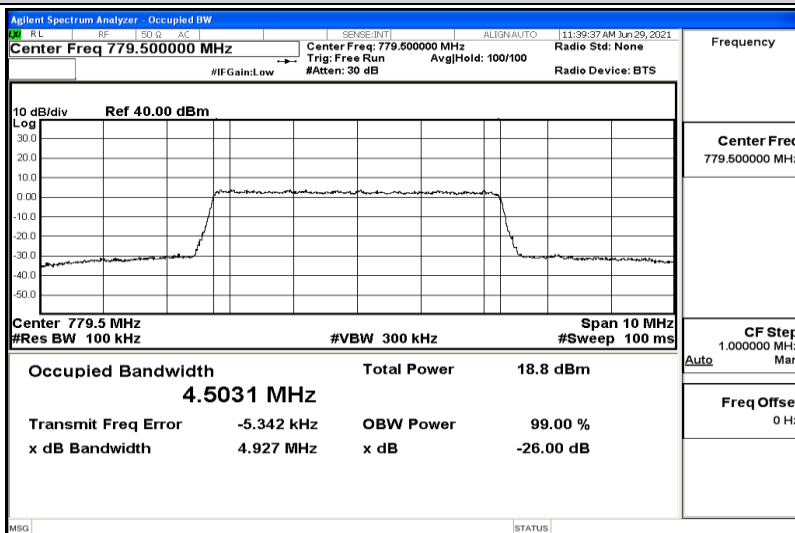


Band13-5MHz-QPSK-23255-25RB#0-4.4864

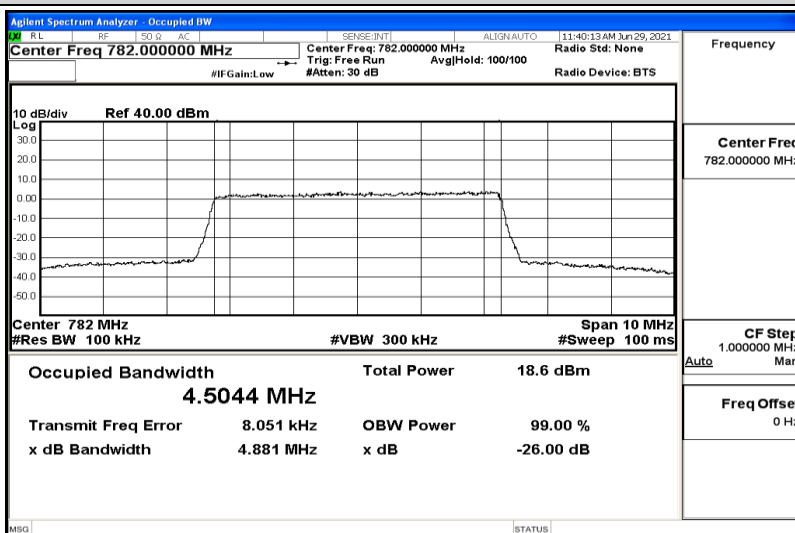




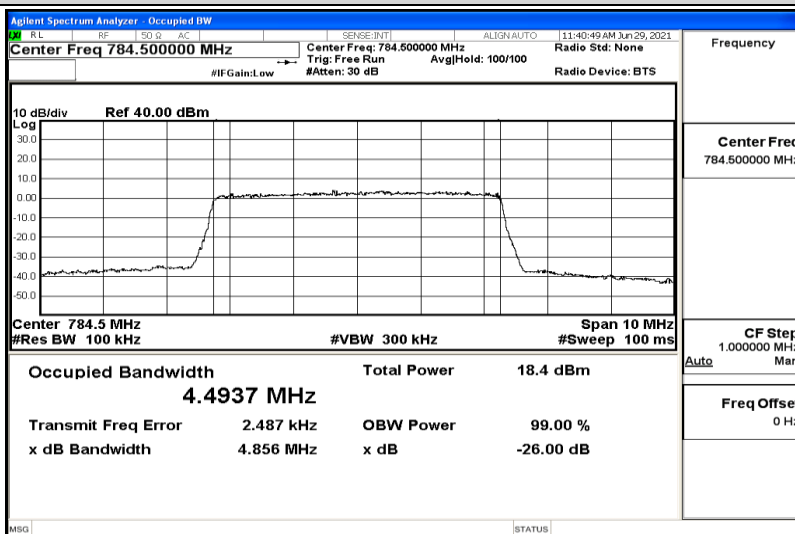
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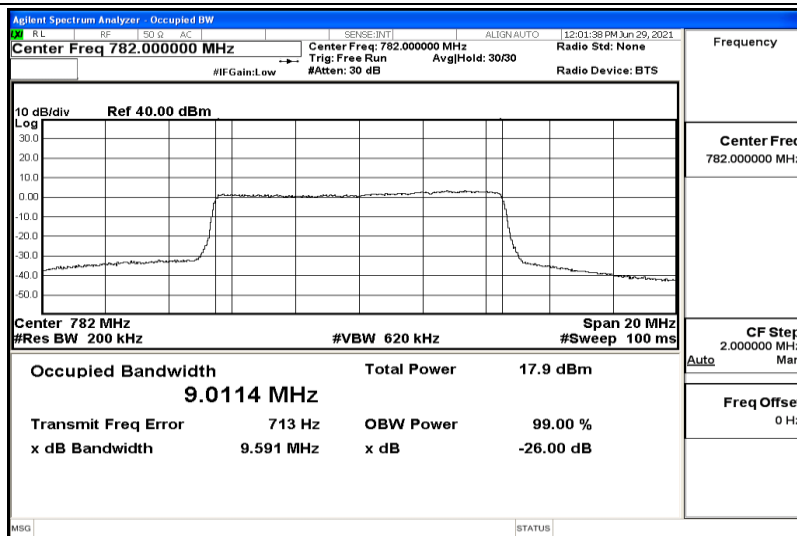
Band13-5MHz-16QAM-23230-25RB#0-4.5044



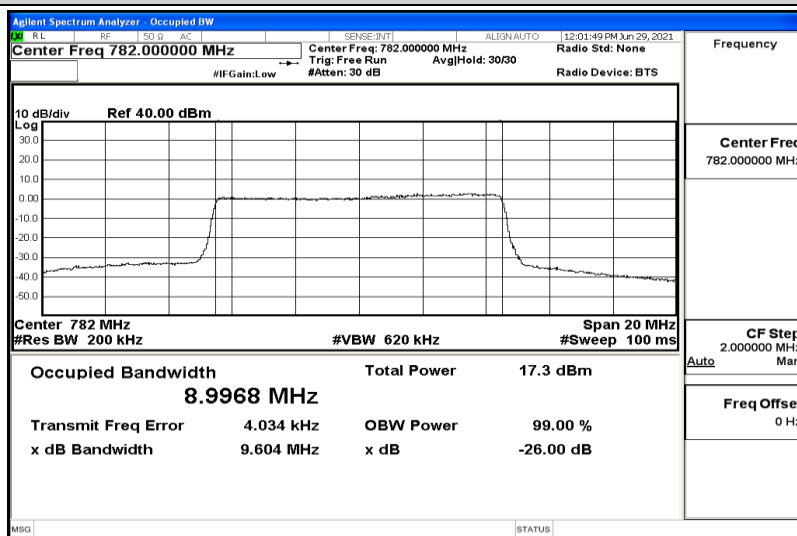
Band13-5MHz-16QAM-23255-25RB#0-4.4937



Band13-10MHz-QPSK-23230-50RB#0-9.0114



Band13-10MHz-16QAM-23230-50RB#0-8.9968



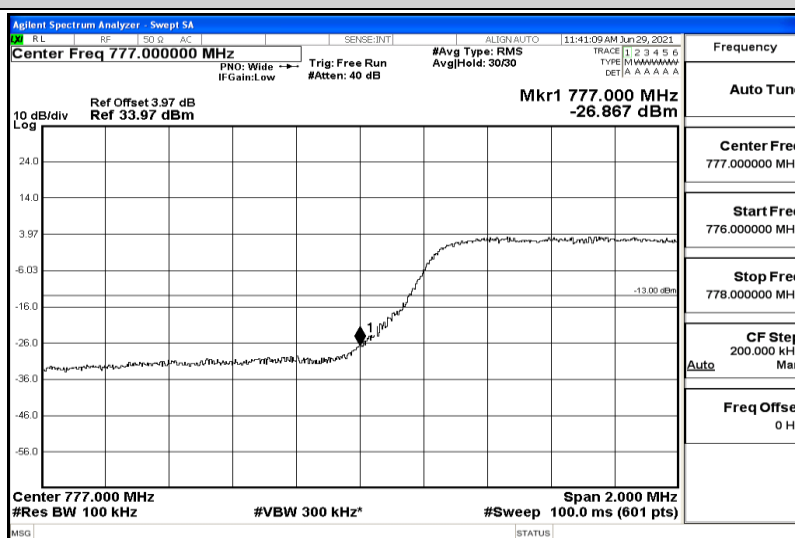
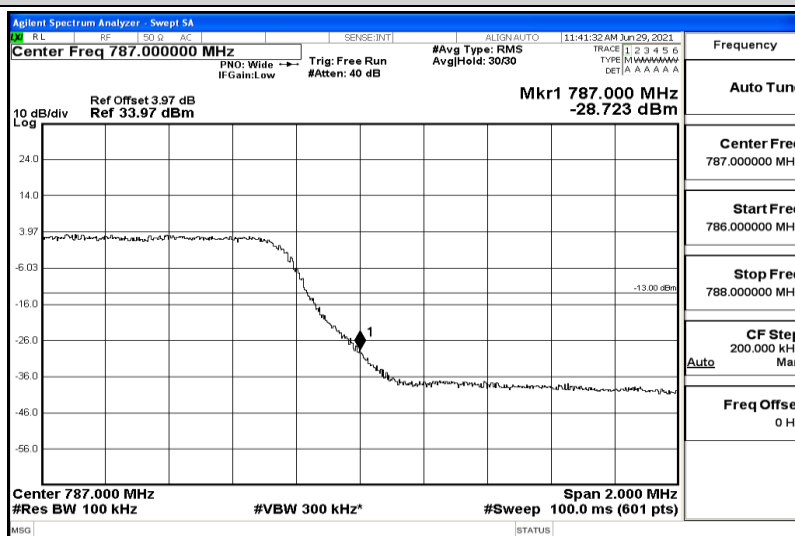


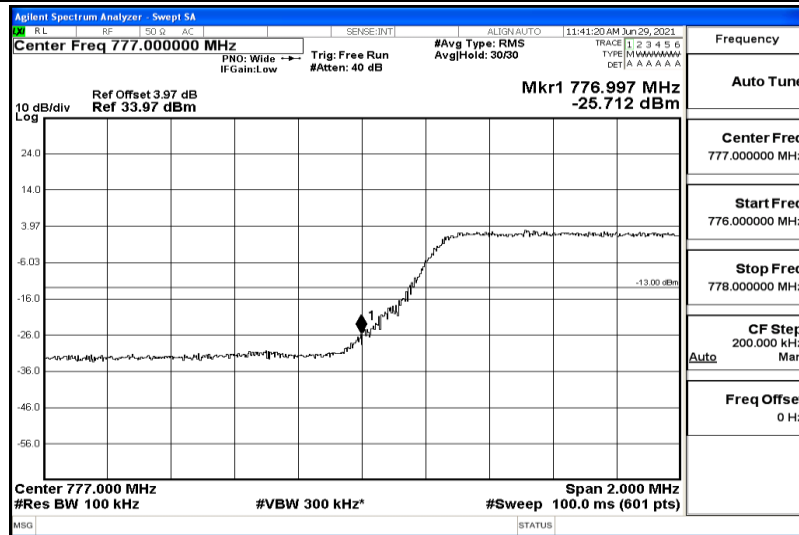
I.4 Band Edge

Test Result

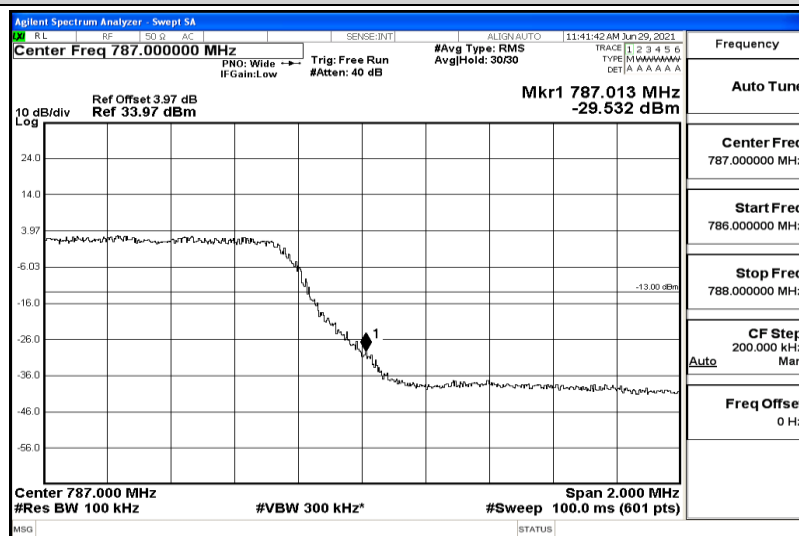
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	-26.87	PASS
Band13	5MHz	QPSK	23255	25RB#0	-28.72	PASS
Band13	5MHz	16QAM	23205	25RB#0	-25.71	PASS
Band13	5MHz	16QAM	23255	25RB#0	-29.53	PASS

Test Graphs

Band13-5MHz-QPSK-23205-25RB#0**Band13-5MHz-QPSK-23255-25RB#0****Band13-5MHz-16QAM-23205-25RB#0**



Band13-5MHz-16QAM-23255-25RB#0





I.5 Conducted Spurious Emission

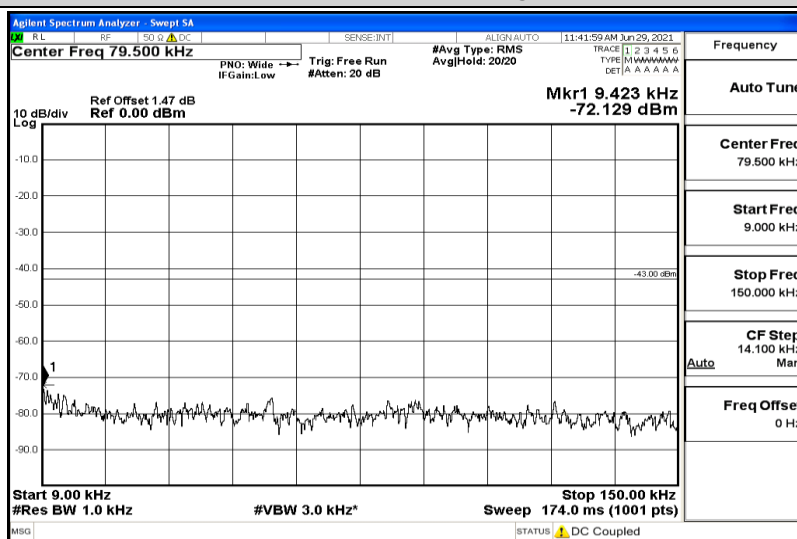
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	Range1:0.009~0.15MHz	-72.13	PASS
Band13	5MHz	QPSK	23205	1RB#0	Range2:0.15~30MHz	-69.2	PASS
Band13	5MHz	QPSK	23205	1RB#0	Range3:30~1000MHz	-44.17	PASS
Band13	5MHz	QPSK	23205	1RB#0	Range4:1000~10000MHz	-46.53	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range1:0.009~0.15MHz	-73.3	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range2:0.15~30MHz	-67.21	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range3:30~1000MHz	-43.6	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range4:1000~10000MHz	-46.48	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range1:0.009~0.15MHz	-73.3	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range2:0.15~30MHz	-66.99	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range3:30~1000MHz	-42.94	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range4:1000~10000MHz	-46.59	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range1:0.009~0.15MHz	-73.62	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range2:0.15~30MHz	-66.95	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range3:30~1000MHz	-43.75	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range4:1000~10000MHz	-46.59	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range1:0.009~0.15MHz	-74.12	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range2:0.15~30MHz	-65.31	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range3:30~1000MHz	-43.25	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range4:1000~10000MHz	-46.59	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range1:0.009~0.15MHz	-74.61	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range2:0.15~30MHz	-66.08	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range3:30~1000MHz	-43.77	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range4:1000~10000MHz	-46.56	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range1:0.009~0.15MHz	-74.69	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range2:0.15~30MHz	-67.98	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range3:30~1000MHz	-43.97	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range4:1000~10000MHz	-46.54	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range1:0.009~0.15MHz	-73.55	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range2:0.15~30MHz	-67.45	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range3:30~1000MHz	-43.84	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range4:1000~10000MHz	-46.62	PASS

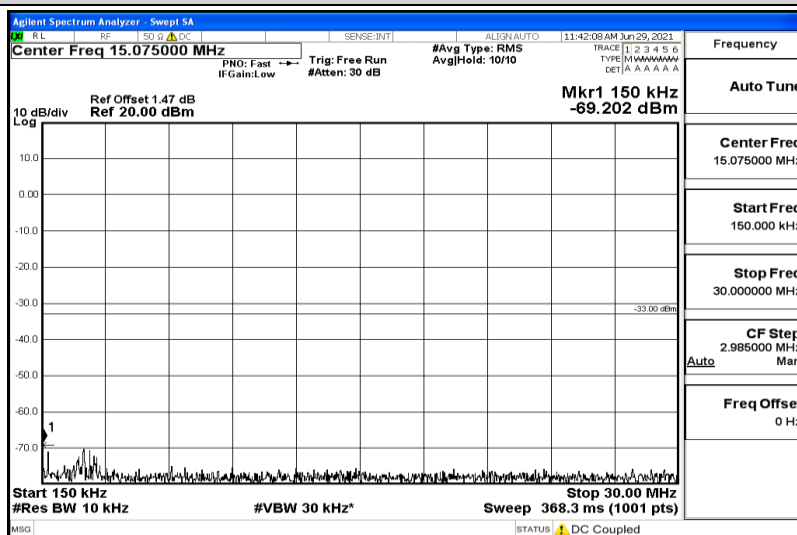


Test Graphs

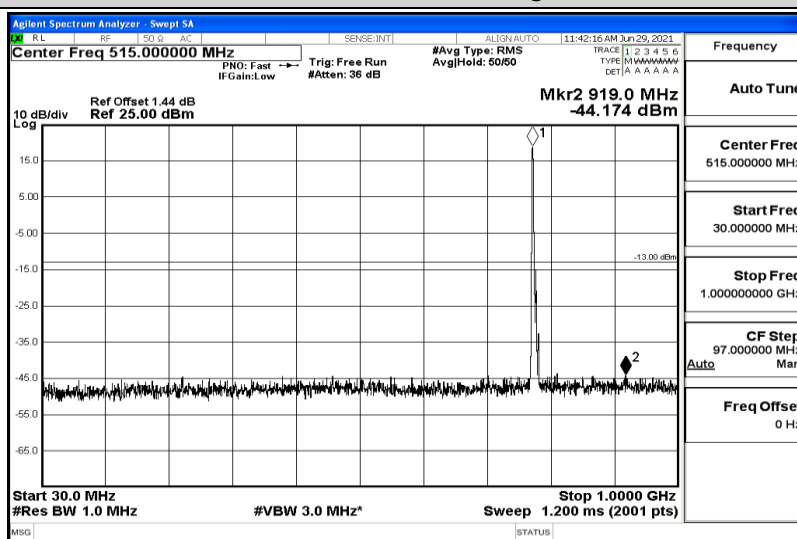
Band13-5MHz-QPSK-23205-1RB#0-Range1:0.009~0.15MHz



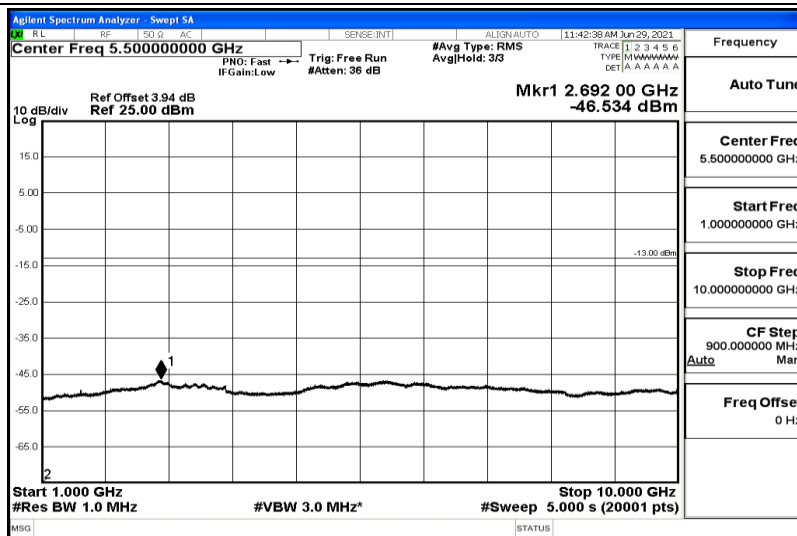
Band13-5MHz-QPSK-23205-1RB#0-Range2:0.15~30MHz



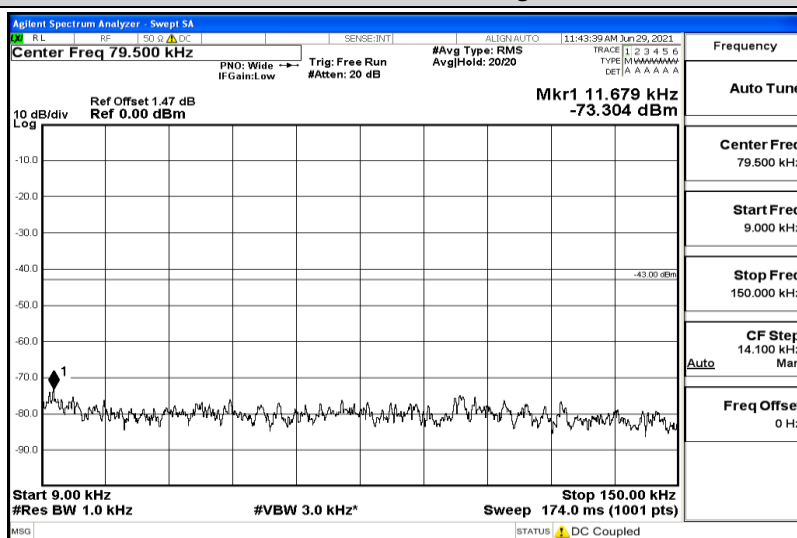
Band13-5MHz-QPSK-23205-1RB#0-Range3:30~1000MHz



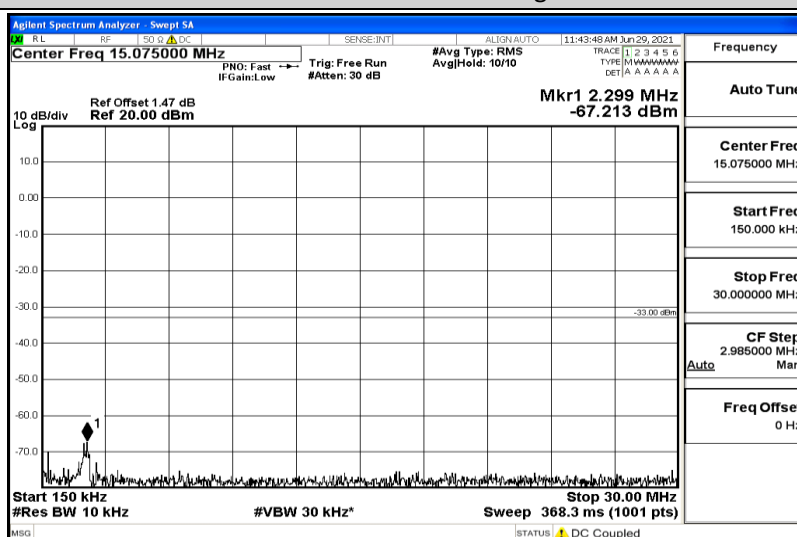
Band13-5MHz-QPSK-23205-1RB#0-Range4:1000~10000MHz



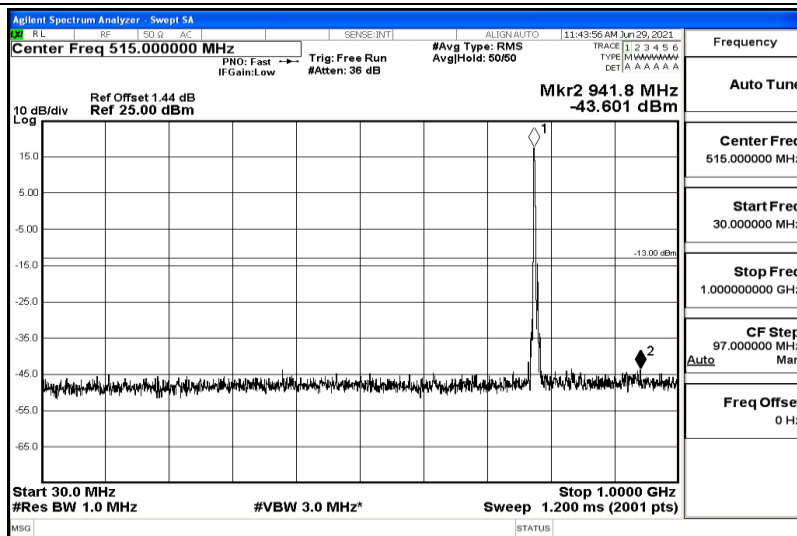
Band13-5MHz-QPSK-23230-1RB#0-Range1:0.009~0.15MHz



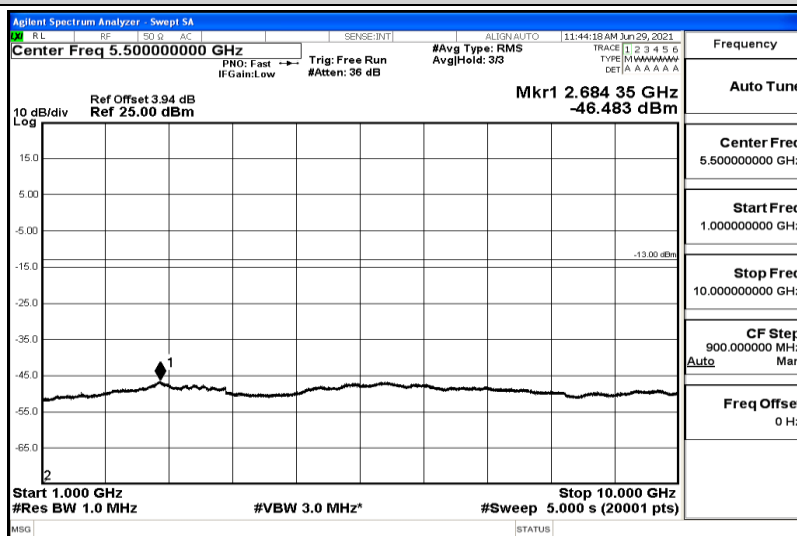
Band13-5MHz-QPSK-23230-1RB#0-Range2:0.15~30MHz



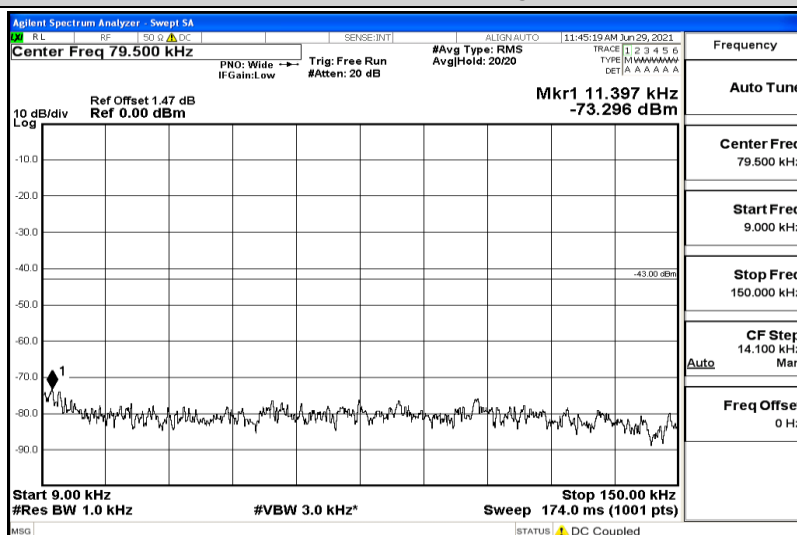
Band13-5MHz-QPSK-23230-1RB#0-Range3:30~1000MHz



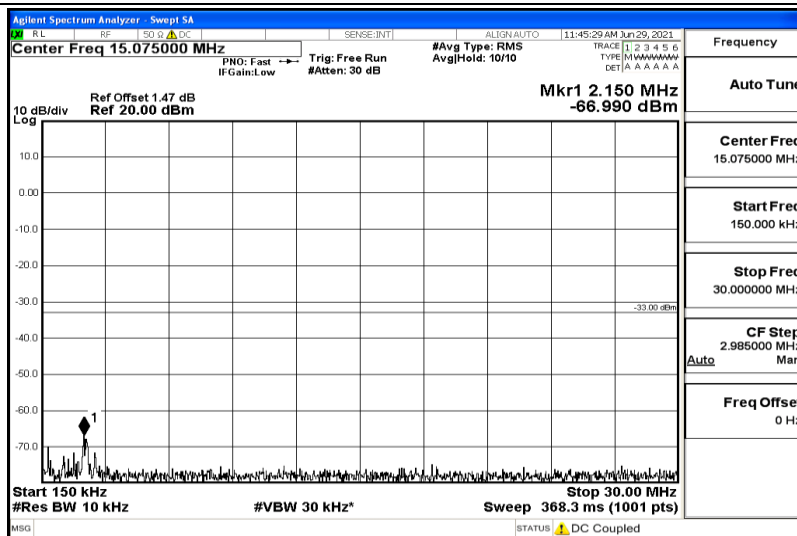
Band13-5MHz-QPSK-23230-1RB#0-Range4:1000~10000MHz



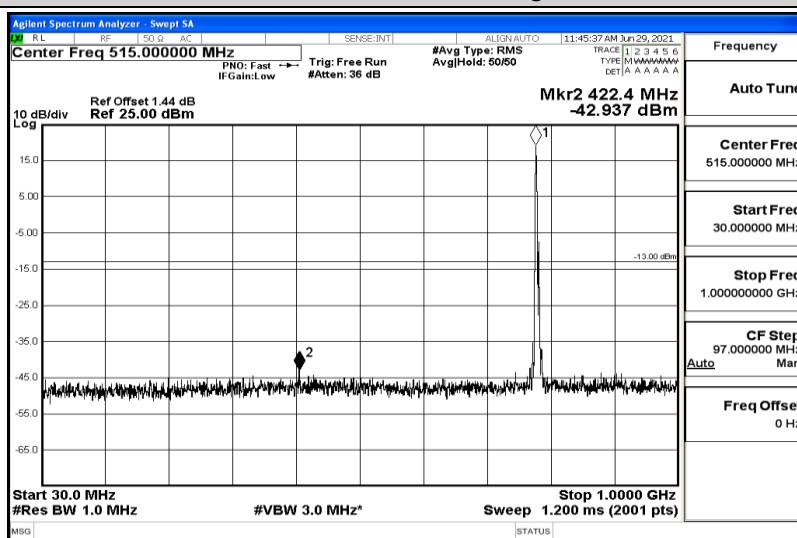
Band13-5MHz-QPSK-23255-1RB#0-Range1:0.009~0.15MHz



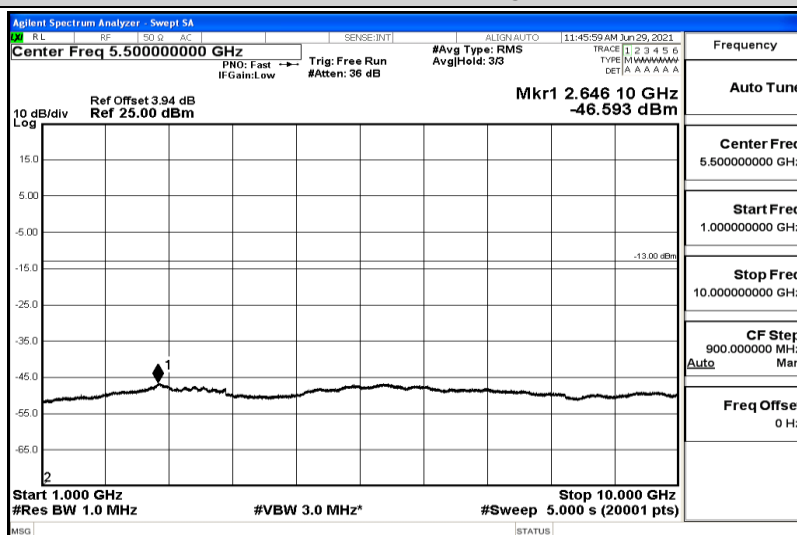
Band13-5MHz-QPSK-23255-1RB#0-Range2:0.15~30MHz



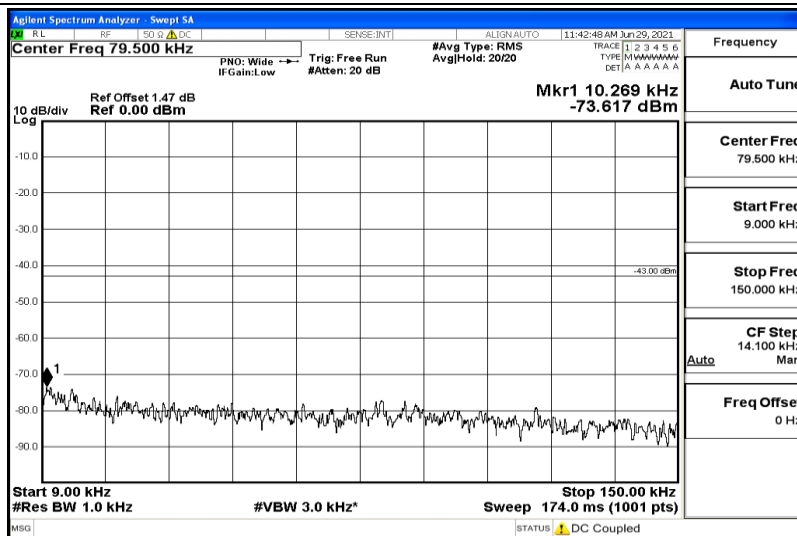
Band13-5MHz-QPSK-23255-1RB#0-Range3:30~1000MHz



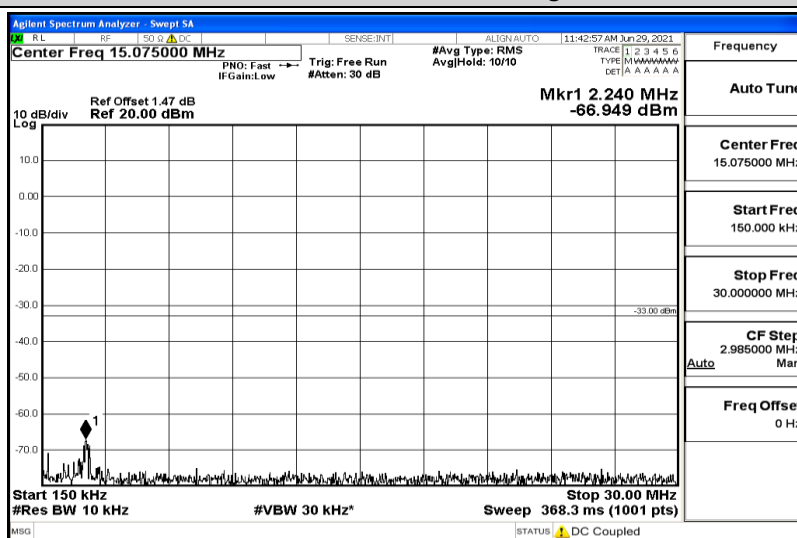
Band13-5MHz-QPSK-23255-1RB#0-Range4:1000~10000MHz



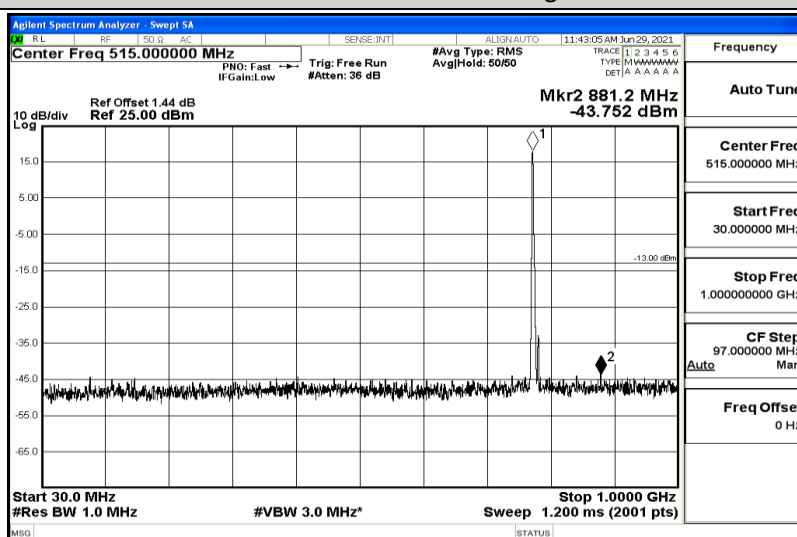
Band13-5MHz-16QAM-23205-1RB#0-Range1:0.009~0.15MHz



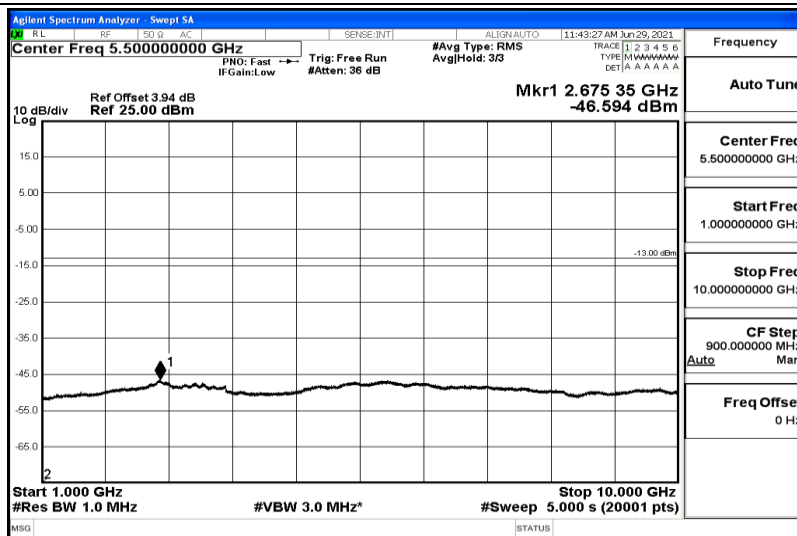
Band13-5MHz-16QAM-23205-1RB#0-Range2:0.15~30MHz



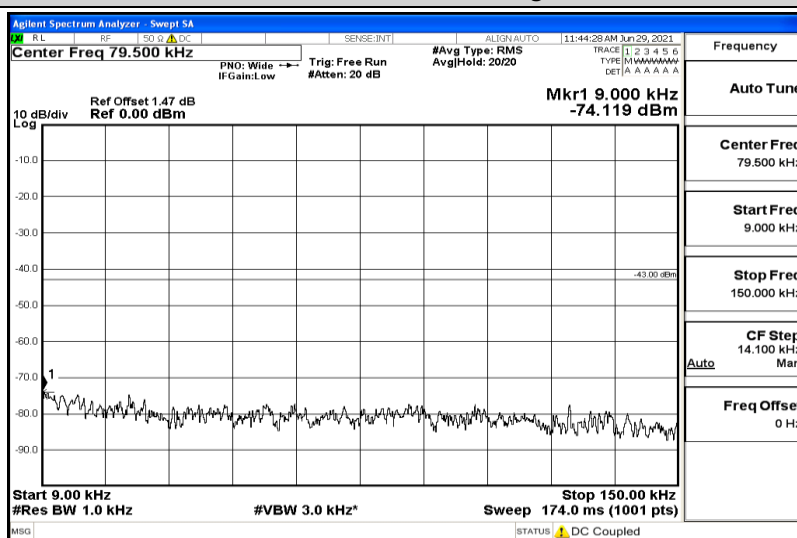
Band13-5MHz-16QAM-23205-1RB#0-Range3:30~1000MHz



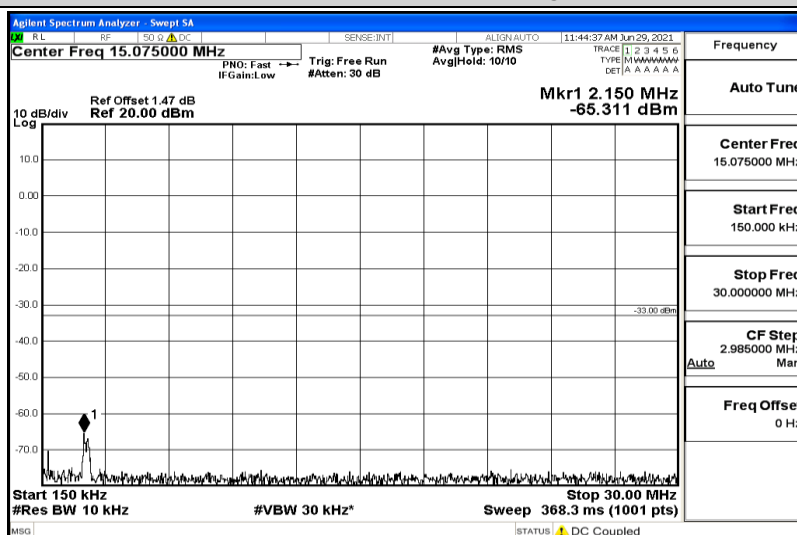
Band13-5MHz-16QAM-23205-1RB#0-Range4:1000~10000MHz



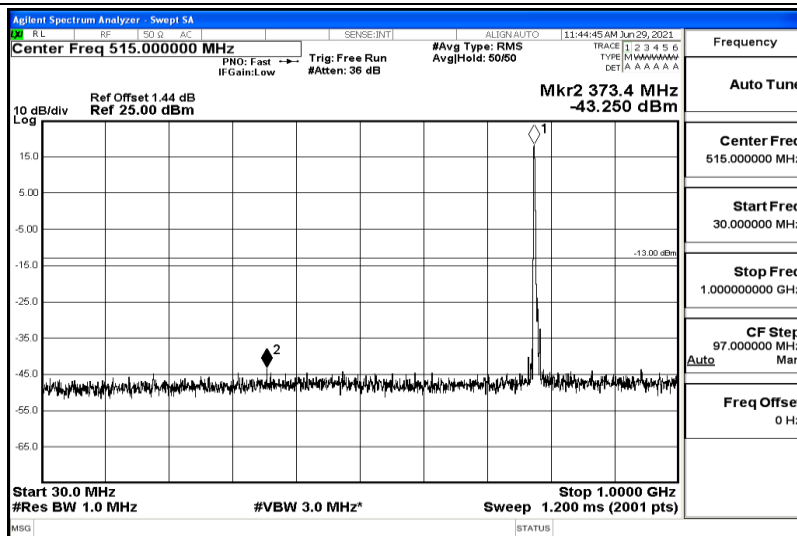
Band13-5MHz-16QAM-23230-1RB#0-Range1:0.009~0.15MHz



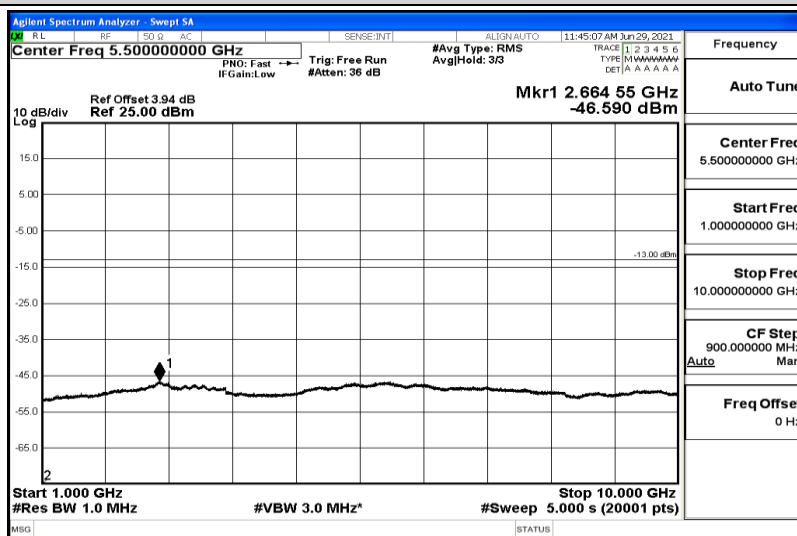
Band13-5MHz-16QAM-23230-1RB#0-Range2:0.15~30MHz



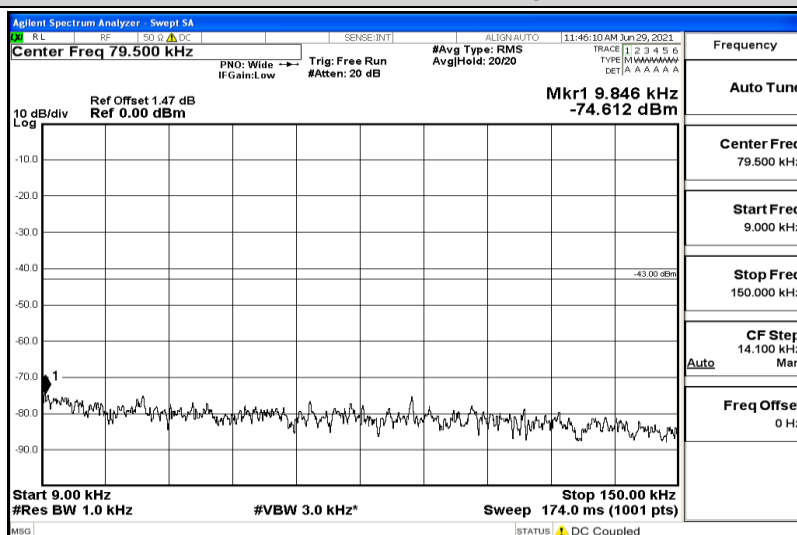
Band13-5MHz-16QAM-23230-1RB#0-Range3:30~1000MHz



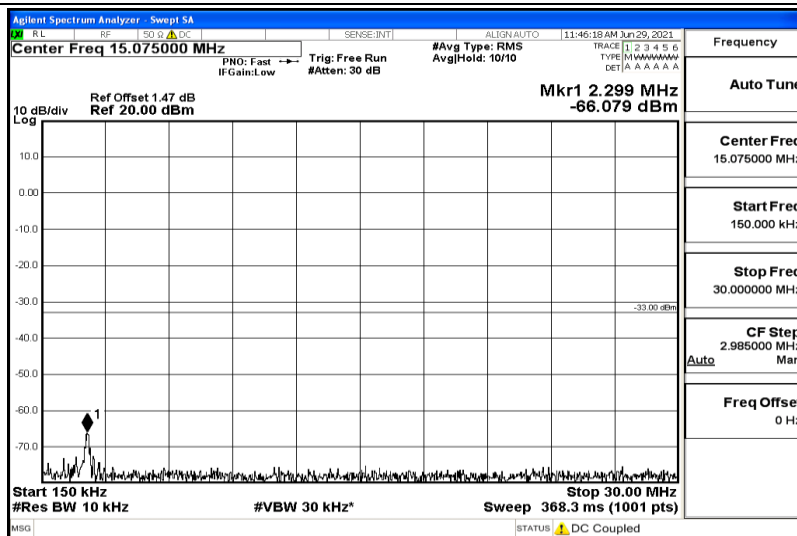
Band13-5MHz-16QAM-23230-1RB#0-Range4:1000~10000MHz



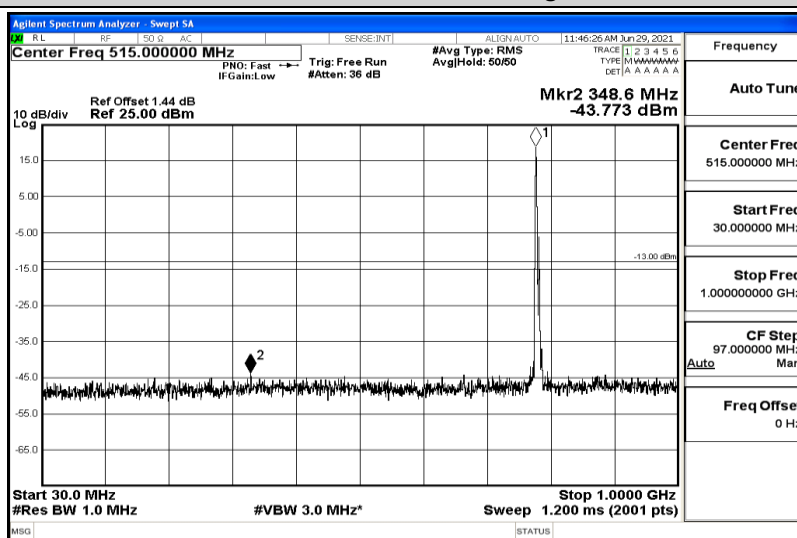
Band13-5MHz-16QAM-23255-1RB#0-Range1:0.009~0.15MHz



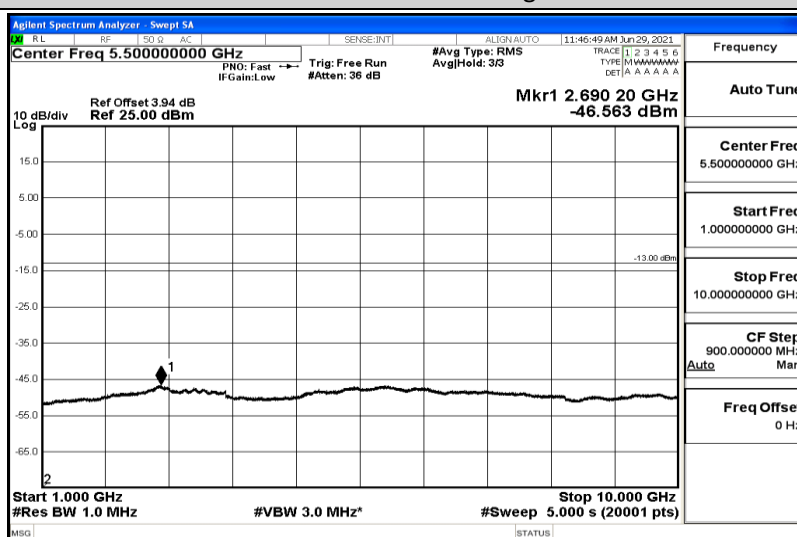
Band13-5MHz-16QAM-23255-1RB#0-Range2:0.15~30MHz



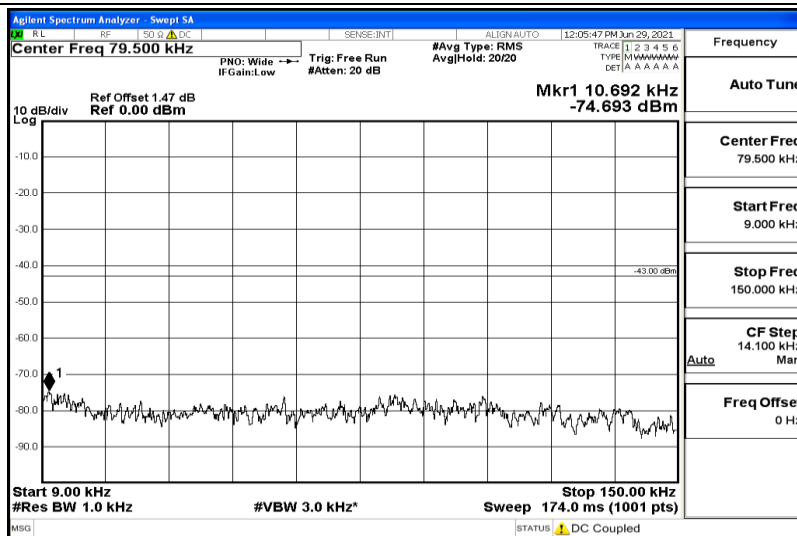
Band13-5MHz-16QAM-23255-1RB#0-Range3:30~1000MHz



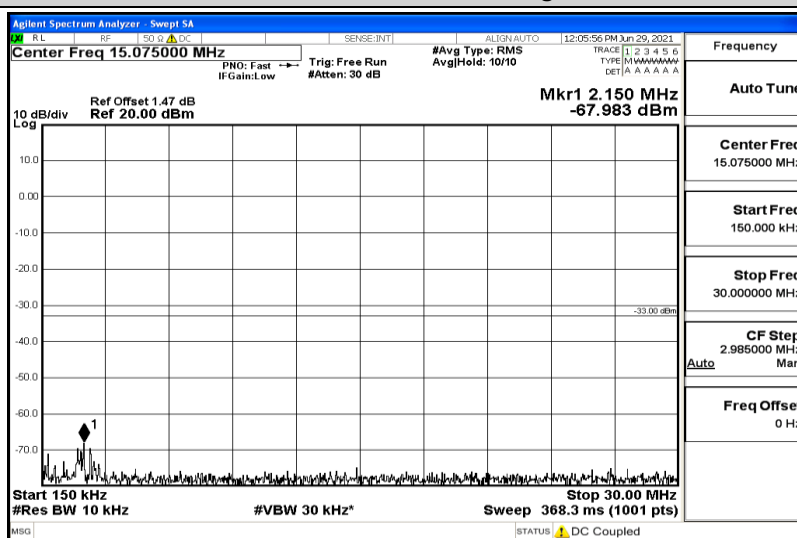
Band13-5MHz-16QAM-23255-1RB#0-Range4:1000~10000MHz



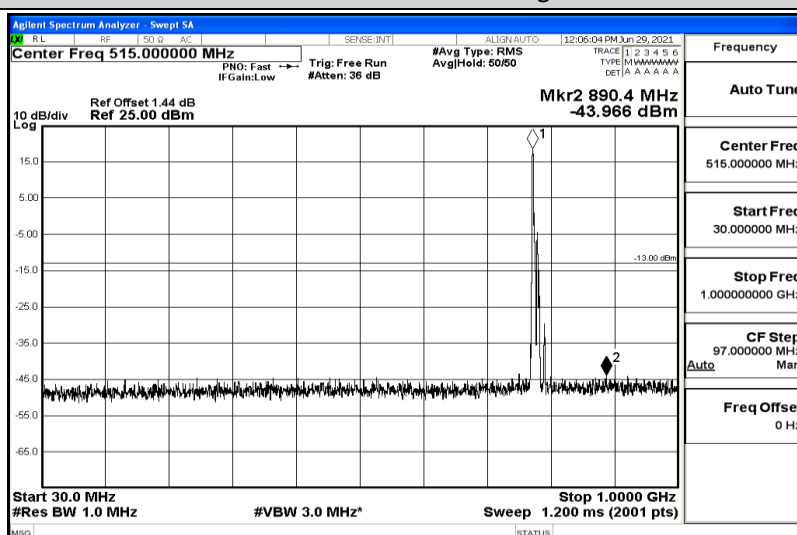
Band13-10MHz-QPSK-23230-1RB#0-Range1:0.009~0.15MHz



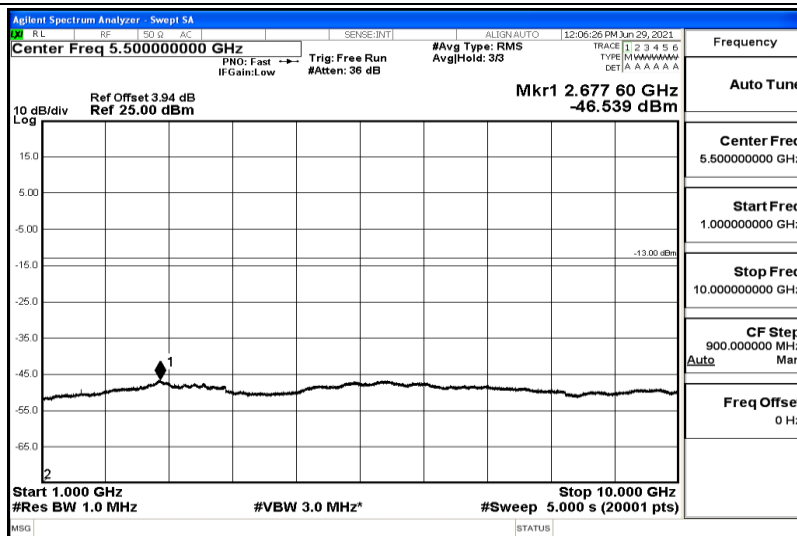
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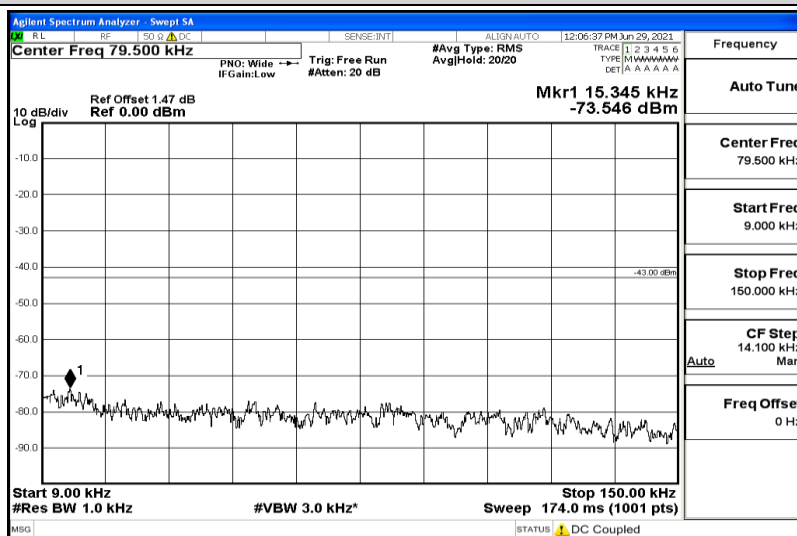
Band13-10MHz-QPSK-23230-1RB#0-Range3:30~1000MHz



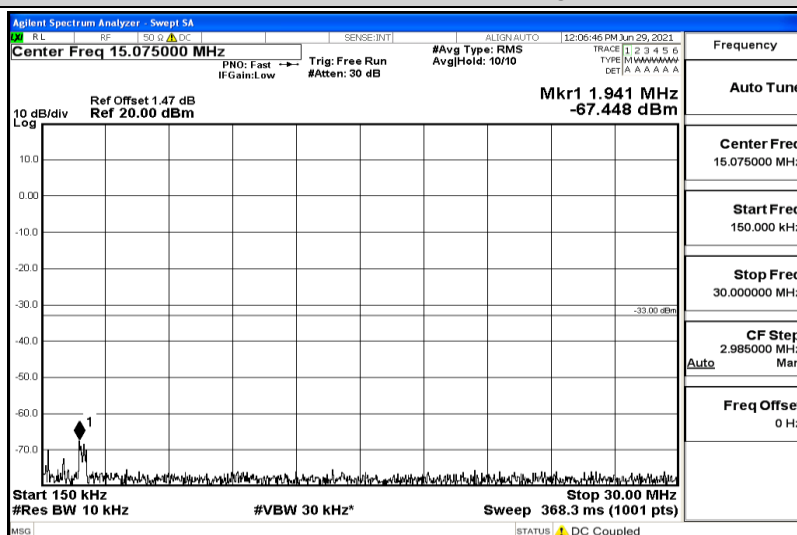
Band13-10MHz-QPSK-23230-1RB#0-Range4:1000~10000MHz



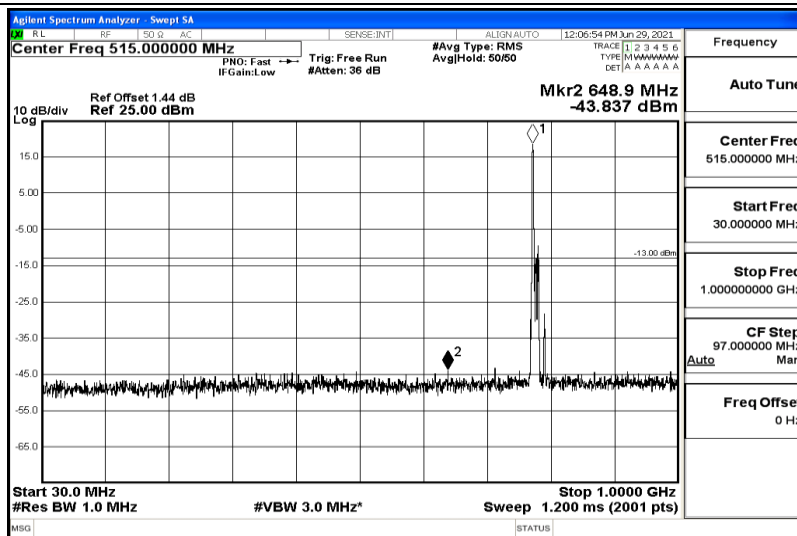
Band13-10MHz-16QAM-23230-1RB#0-Range1:0.009~0.15MHz



Band13-10MHz-16QAM-23230-1RB#0-Range2:0.15~30MHz



Band13-10MHz-16QAM-23230-1RB#0-Range3:30~1000MHz



Band13-10MHz-16QAM-23230-1RB#0-Range4:1000~10000MHz

