

## **Appendix for Band 13**

Product Name: Smart Phone

Model No: F91 5G

## Appendix A: Average Power Output Data

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	24.76	PASS
Band13	5MHz	QPSK	23205	1RB#12	24.62	PASS
Band13	5MHz	QPSK	23205	1RB#24	24.60	PASS
Band13	5MHz	QPSK	23205	12RB#0	23.55	PASS
Band13	5MHz	QPSK	23205	12RB#6	23.53	PASS
Band13	5MHz	QPSK	23205	12RB#13	23.49	PASS
Band13	5MHz	QPSK	23205	25RB#0	23.53	PASS
Band13	5MHz	QPSK	23230	1RB#0	24.61	PASS
Band13	5MHz	QPSK	23230	1RB#12	24.53	PASS
Band13	5MHz	QPSK	23230	1RB#24	24.42	PASS
Band13	5MHz	QPSK	23230	12RB#0	23.62	PASS
Band13	5MHz	QPSK	23230	12RB#6	23.59	PASS
Band13	5MHz	QPSK	23230	12RB#13	23.49	PASS
Band13	5MHz	QPSK	23230	25RB#0	23.56	PASS
Band13	5MHz	QPSK	23255	1RB#0	24.53	PASS
Band13	5MHz	QPSK	23255	1RB#12	24.55	PASS
Band13	5MHz	QPSK	23255	1RB#24	24.47	PASS
Band13	5MHz	QPSK	23255	12RB#0	23.55	PASS
Band13	5MHz	QPSK	23255	12RB#6	23.49	PASS
Band13	5MHz	QPSK	23255	12RB#13	23.46	PASS
Band13	5MHz	QPSK	23255	25RB#0	23.46	PASS
Band13	5MHz	16QAM	23205	1RB#0	23.48	PASS
Band13	5MHz	16QAM	23205	1RB#12	23.48	PASS
Band13	5MHz	16QAM	23205	1RB#24	23.51	PASS
Band13	5MHz	16QAM	23205	12RB#0	22.54	PASS
Band13	5MHz	16QAM	23205	12RB#6	22.56	PASS
Band13	5MHz	16QAM	23205	12RB#13	22.50	PASS
Band13	5MHz	16QAM	23205	25RB#0	22.57	PASS
Band13	5MHz	16QAM	23230	1RB#0	23.60	PASS
Band13	5MHz	16QAM	23230	1RB#12	23.66	PASS
Band13	5MHz	16QAM	23230	1RB#24	23.56	PASS
Band13	5MHz	16QAM	23230	12RB#0	22.63	PASS

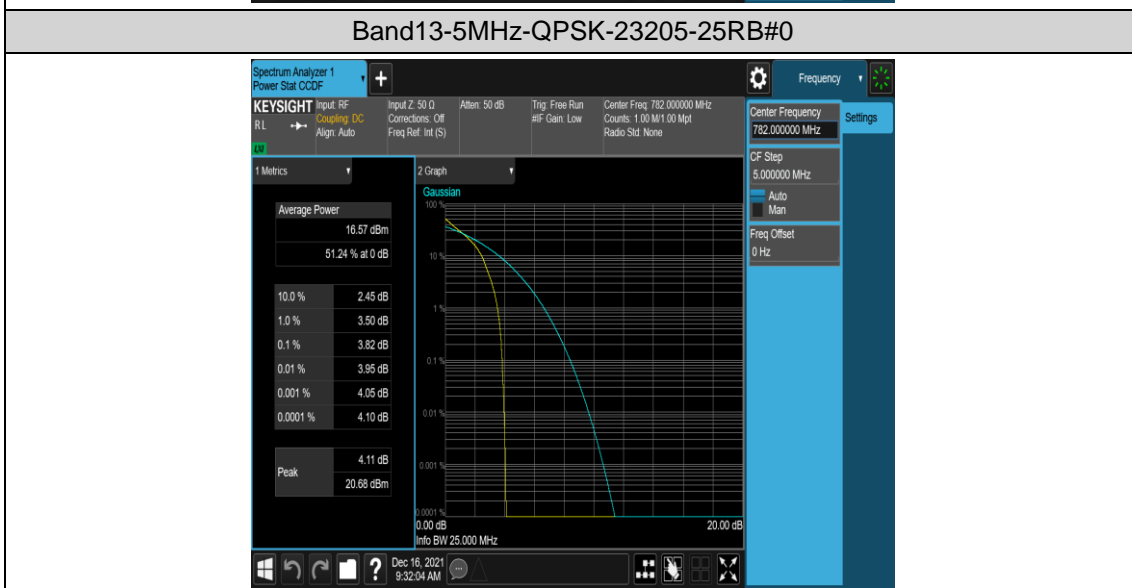
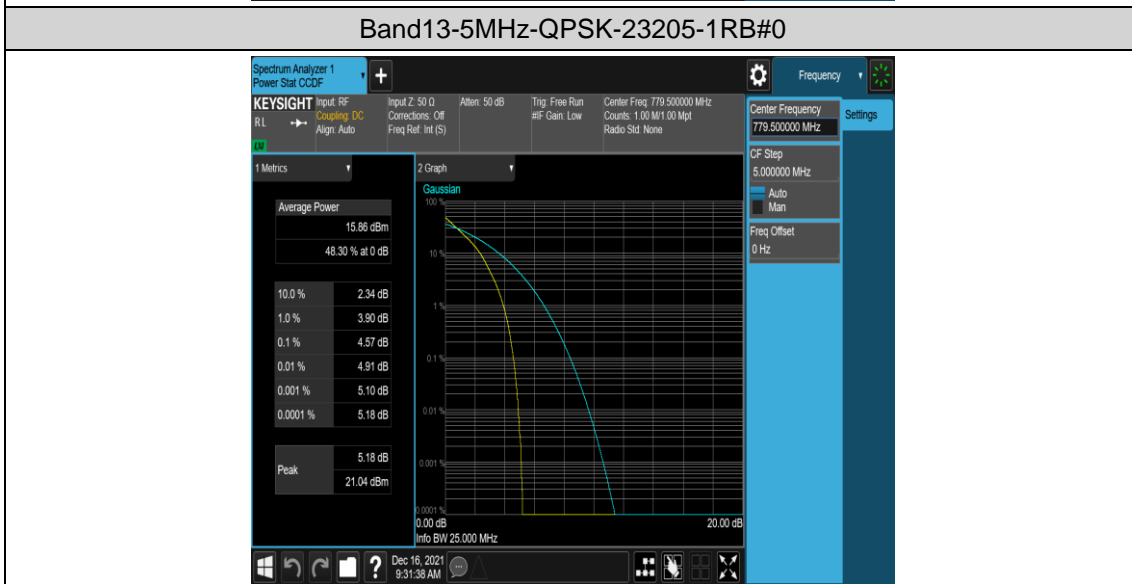
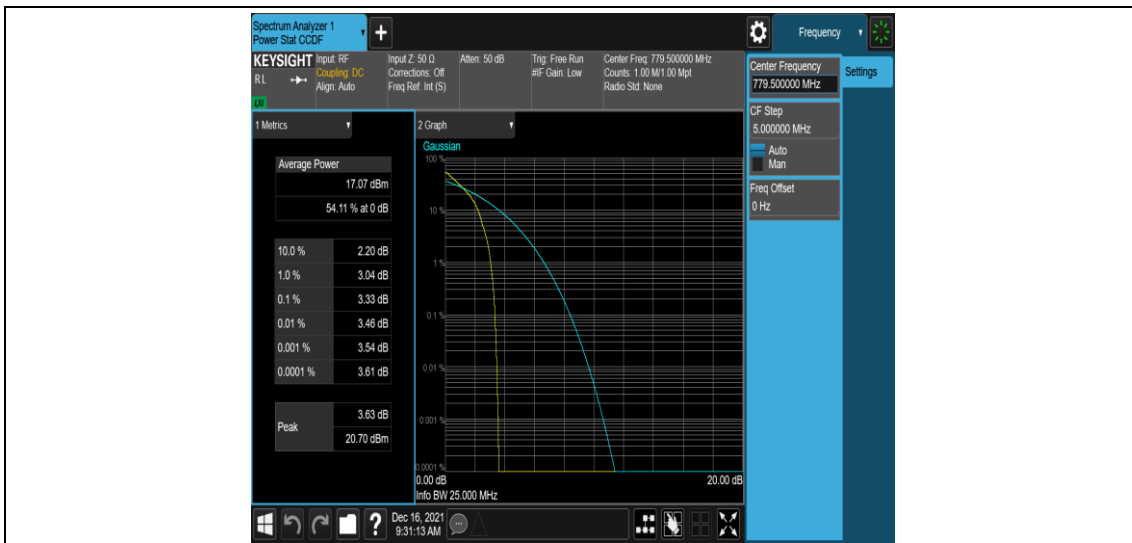
Band13	5MHz	16QAM	23230	12RB#6	22.61	PASS
Band13	5MHz	16QAM	23230	12RB#13	22.53	PASS
Band13	5MHz	16QAM	23230	25RB#0	22.51	PASS
Band13	5MHz	16QAM	23255	1RB#0	23.51	PASS
Band13	5MHz	16QAM	23255	1RB#12	23.44	PASS
Band13	5MHz	16QAM	23255	1RB#24	23.36	PASS
Band13	5MHz	16QAM	23255	12RB#0	22.49	PASS
Band13	5MHz	16QAM	23255	12RB#6	22.51	PASS
Band13	5MHz	16QAM	23255	12RB#13	22.44	PASS
Band13	5MHz	16QAM	23255	25RB#0	22.51	PASS
Band13	10MHz	QPSK	23230	1RB#0	24.81	PASS
Band13	10MHz	QPSK	23230	1RB#24	24.09	PASS
Band13	10MHz	QPSK	23230	1RB#49	23.95	PASS
Band13	10MHz	QPSK	23230	25RB#0	23.18	PASS
Band13	10MHz	16QAM	23230	1RB#0	23.31	PASS
Band13	10MHz	16QAM	23230	1RB#24	23.18	PASS
Band13	10MHz	16QAM	23230	1RB#49	23.07	PASS
Band13	10MHz	16QAM	23230	25RB#0	22.14	PASS

## Appendix B: Peak-to-Average Ratio(CCDF)

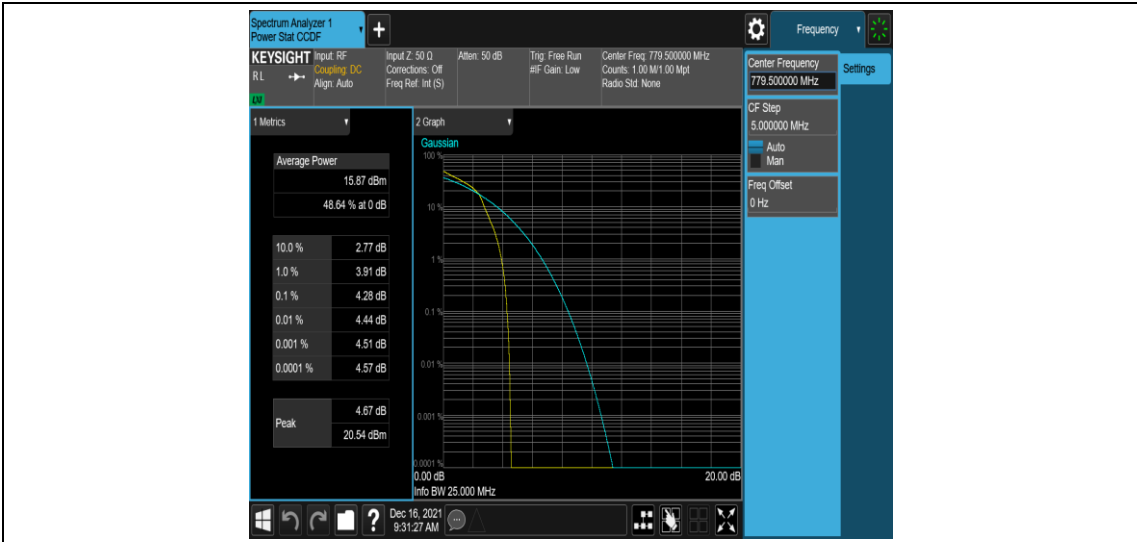
### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	3.33	13	PASS
Band13	5MHz	QPSK	23205	25RB#0	4.57	13	PASS
Band13	5MHz	QPSK	23230	1RB#0	3.82	13	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.83	13	PASS
Band13	5MHz	QPSK	23255	1RB#0	4.30	13	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.57	13	PASS
Band13	5MHz	16QAM	23205	1RB#0	4.28	13	PASS
Band13	5MHz	16QAM	23205	25RB#0	5.37	13	PASS
Band13	5MHz	16QAM	23230	1RB#0	4.56	13	PASS
Band13	5MHz	16QAM	23230	25RB#0	5.68	13	PASS
Band13	5MHz	16QAM	23255	1RB#0	5.04	13	PASS
Band13	5MHz	16QAM	23255	25RB#0	5.43	13	PASS
Band13	10MHz	QPSK	23230	1RB#0	3.35	13	PASS
Band13	10MHz	QPSK	23230	50RB#0	4.62	13	PASS
Band13	10MHz	16QAM	23230	1RB#0	4.24	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	5.49	13	PASS

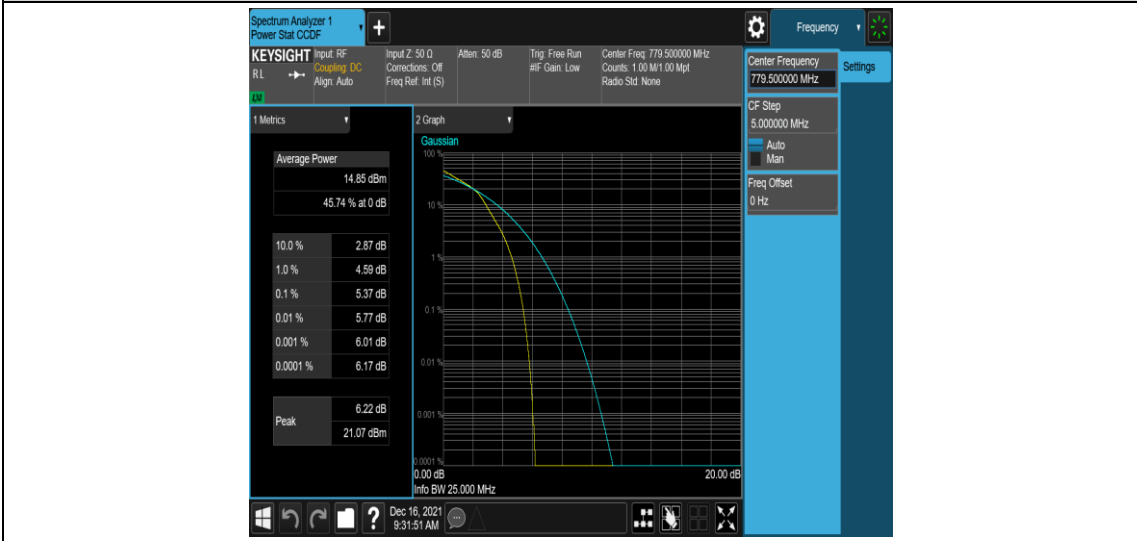
### Test Graphs



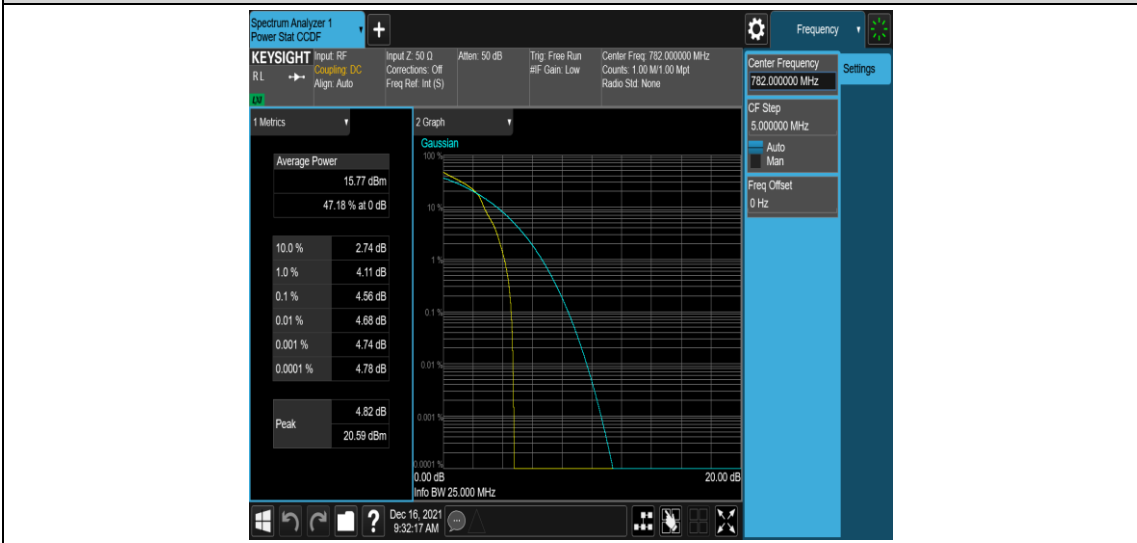




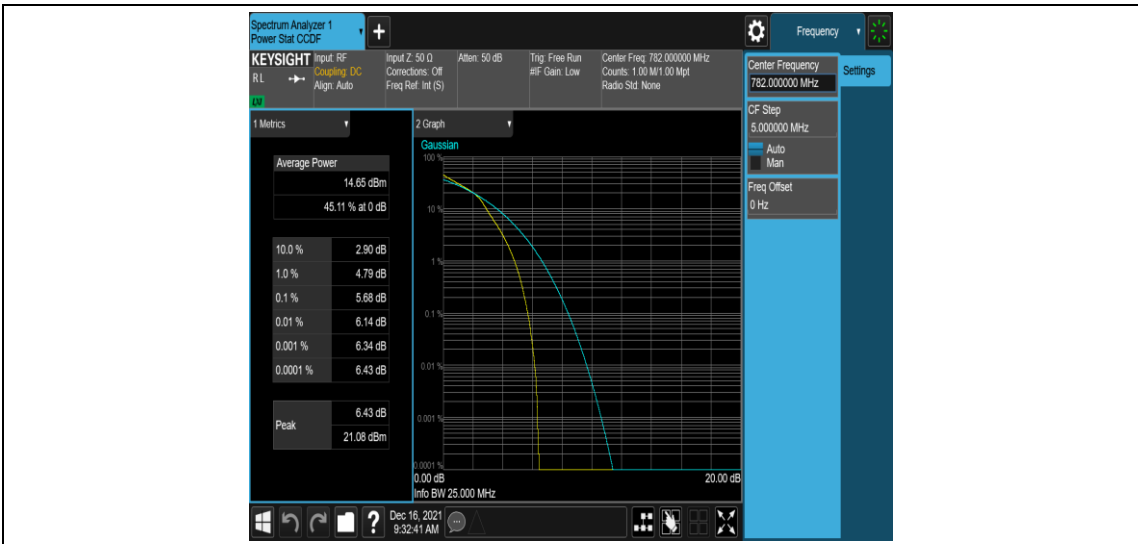
**Band13-5MHz-16QAM-23205-1RB#0**



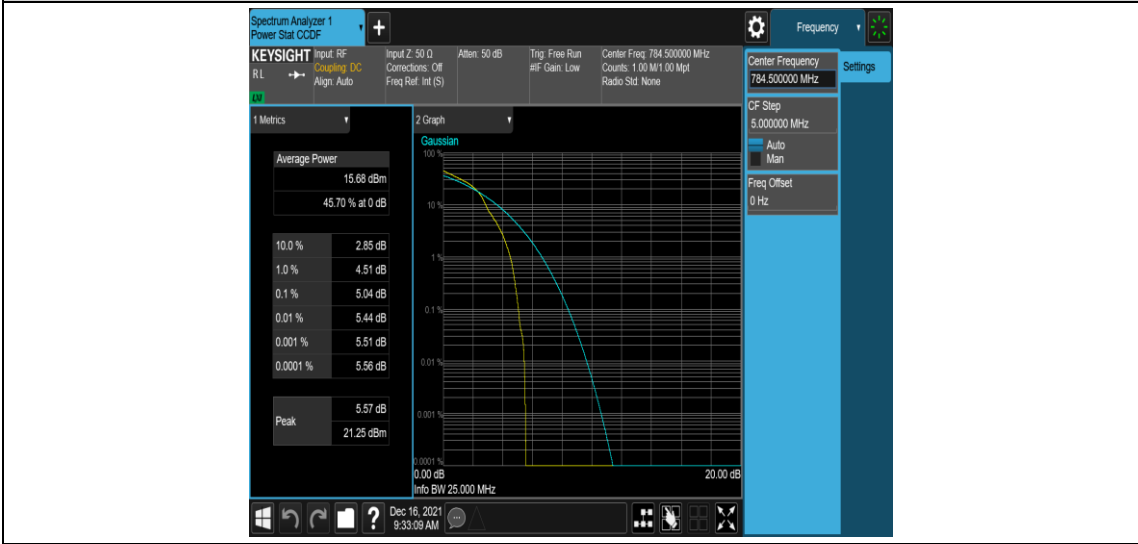
**Band13-5MHz-16QAM-23205-25RB#0**



**Band13-5MHz-16QAM-23230-1RB#0**



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

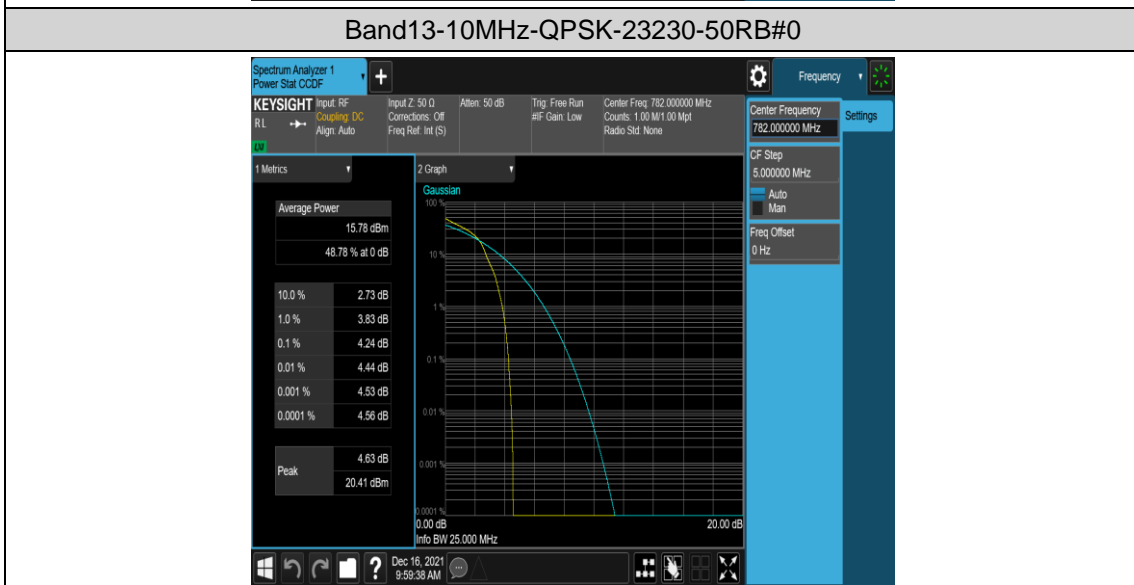
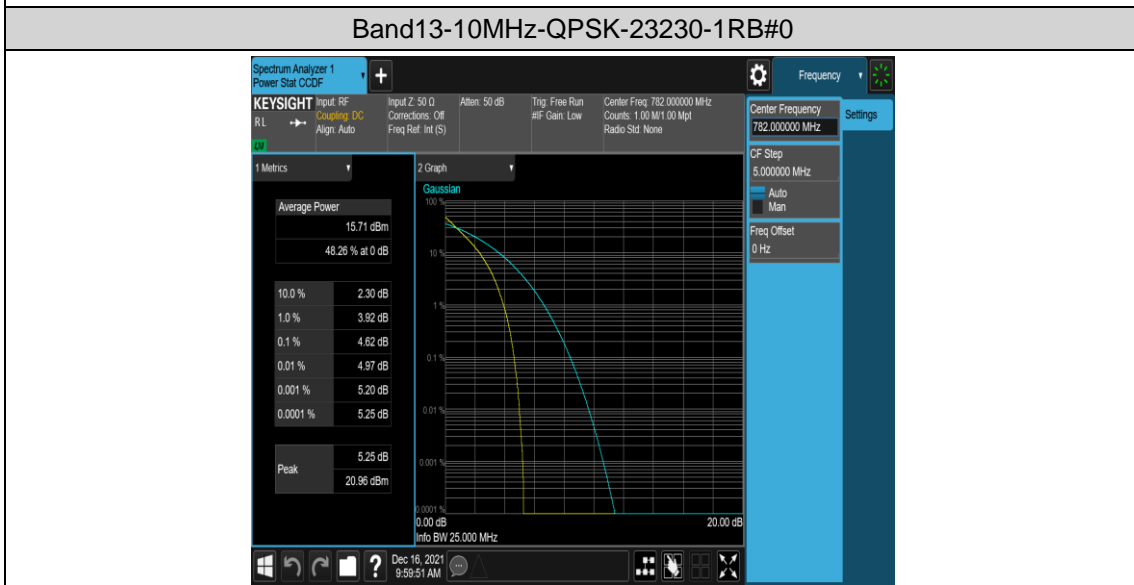


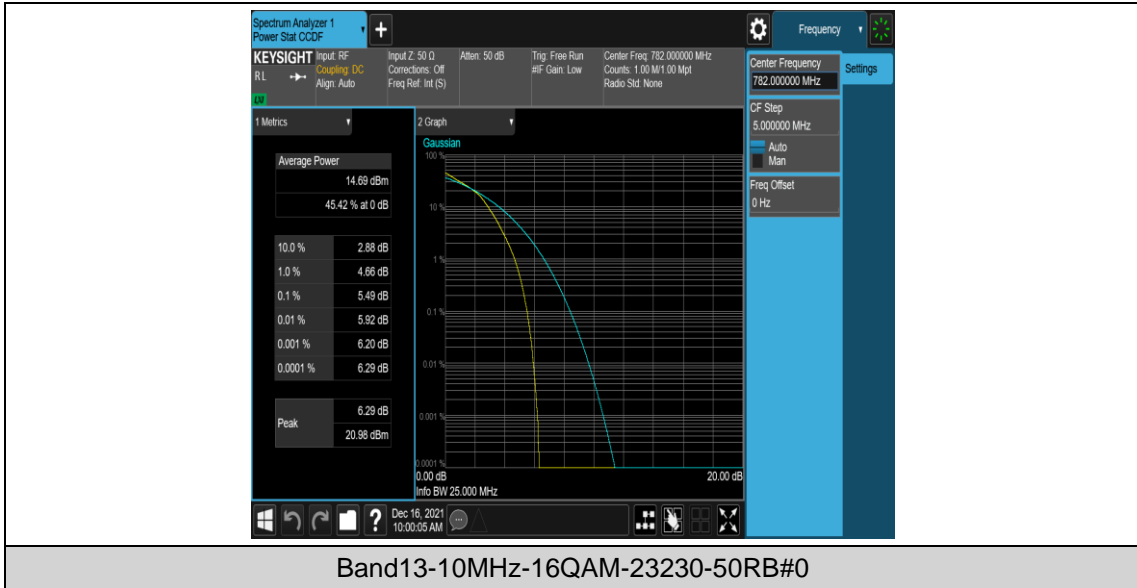
Band13-5MHz-16QAM-23255-1RB#0



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







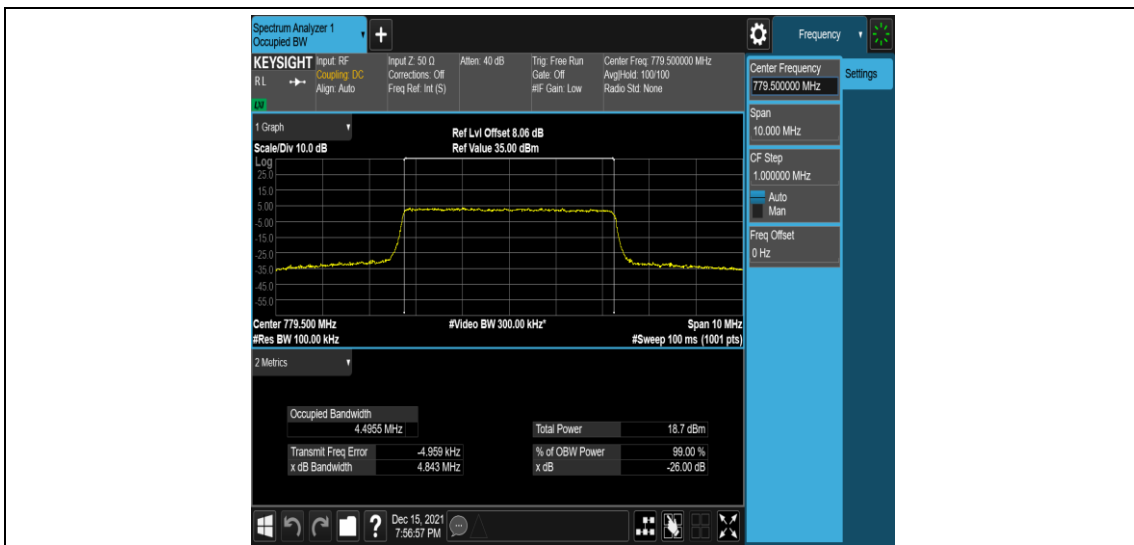
Band13-10MHz-16QAM-23230-50RB#0

## Appendix C: 26dB Bandwidth and Occupied Bandwidth

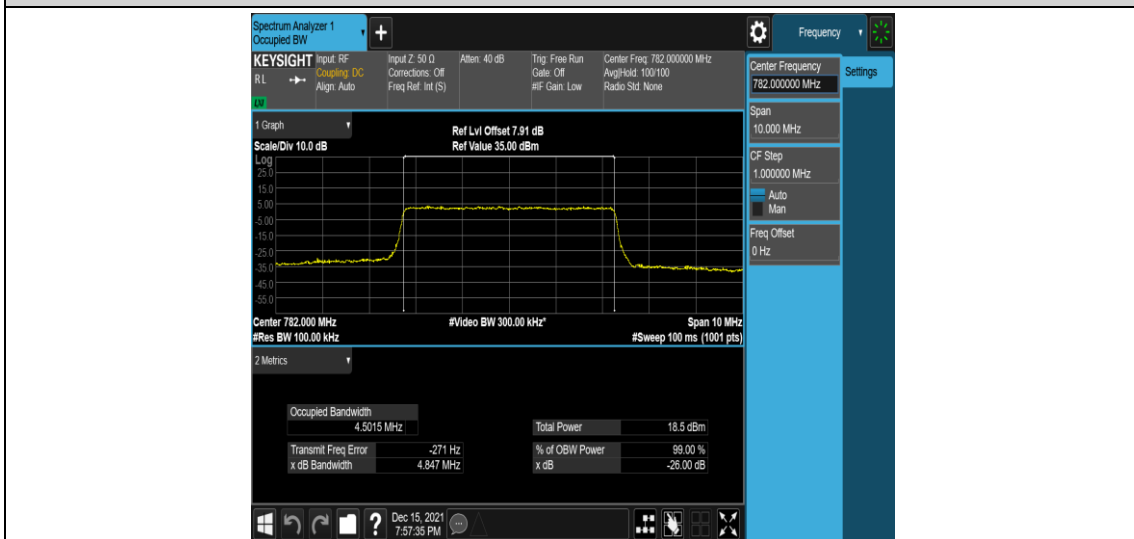
### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.4955	4.843	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.5015	4.847	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.5056	4.829	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.5038	4.835	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.5034	4.853	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.5121	4.835	PASS
Band13	10MHz	QPSK	23230	50RB#0	9.0018	9.554	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.9813	9.521	PASS

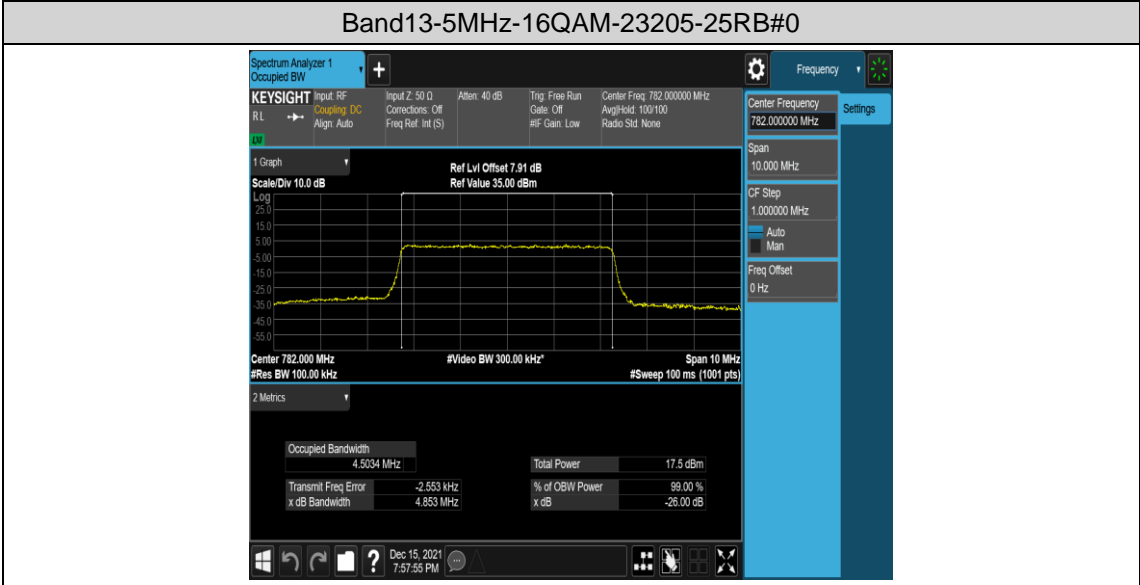
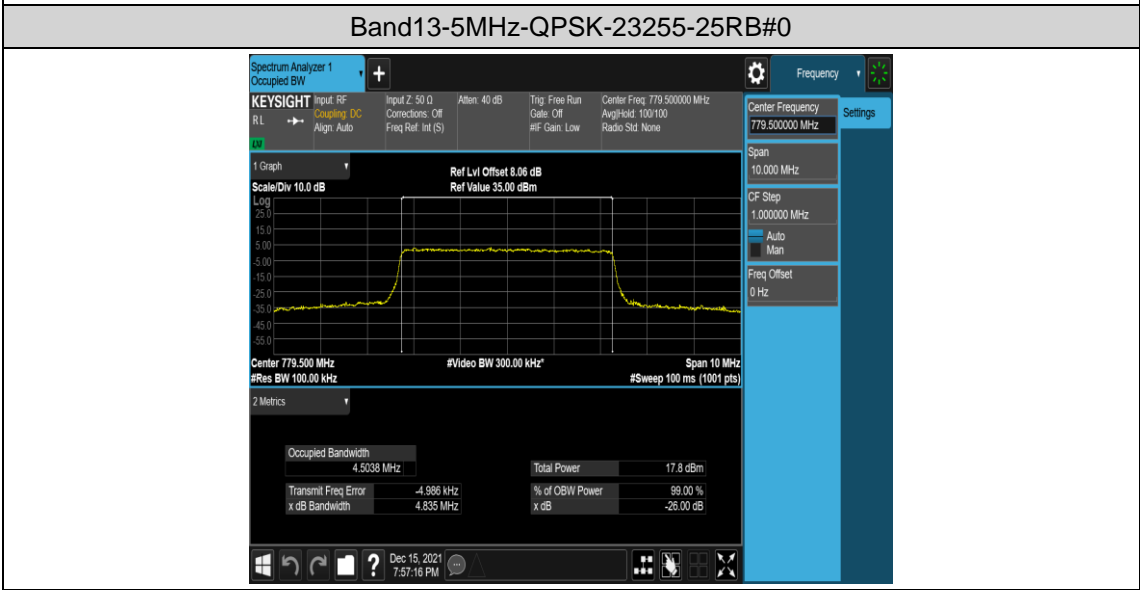
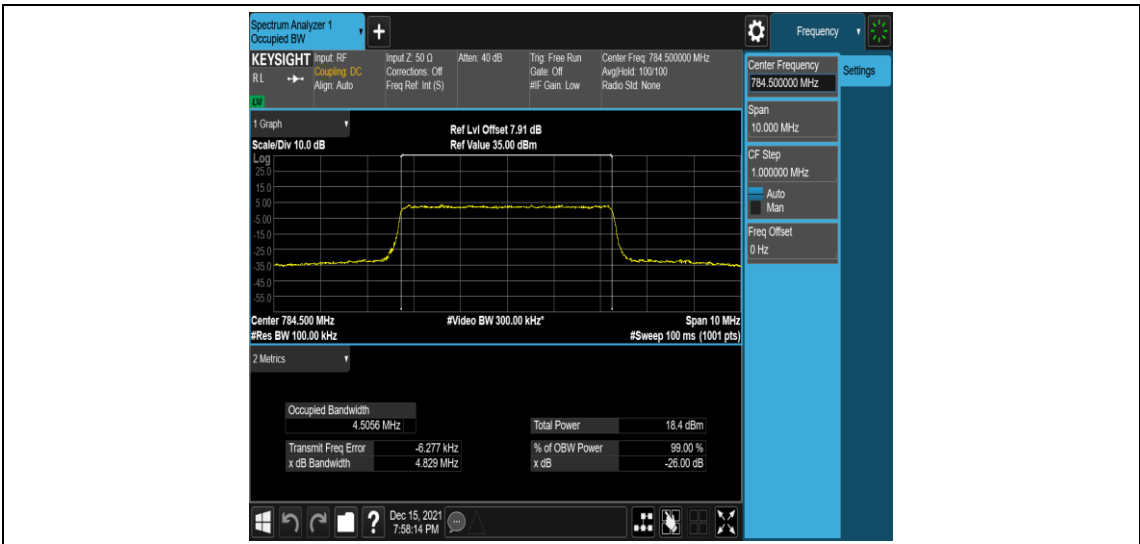
## Test Graphs

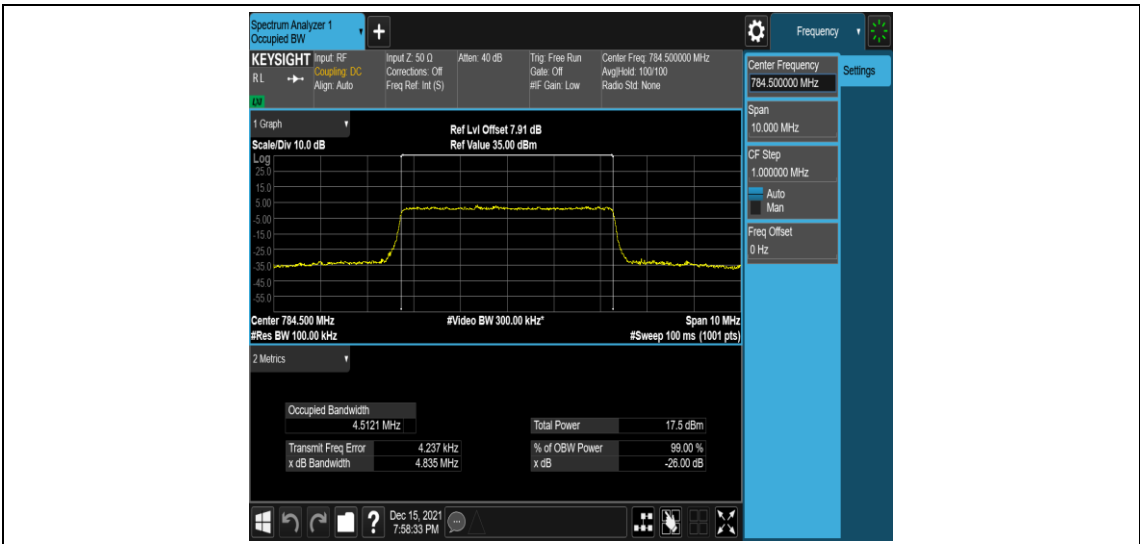


Band13-5MHz-QPSK-23205-25RB#0

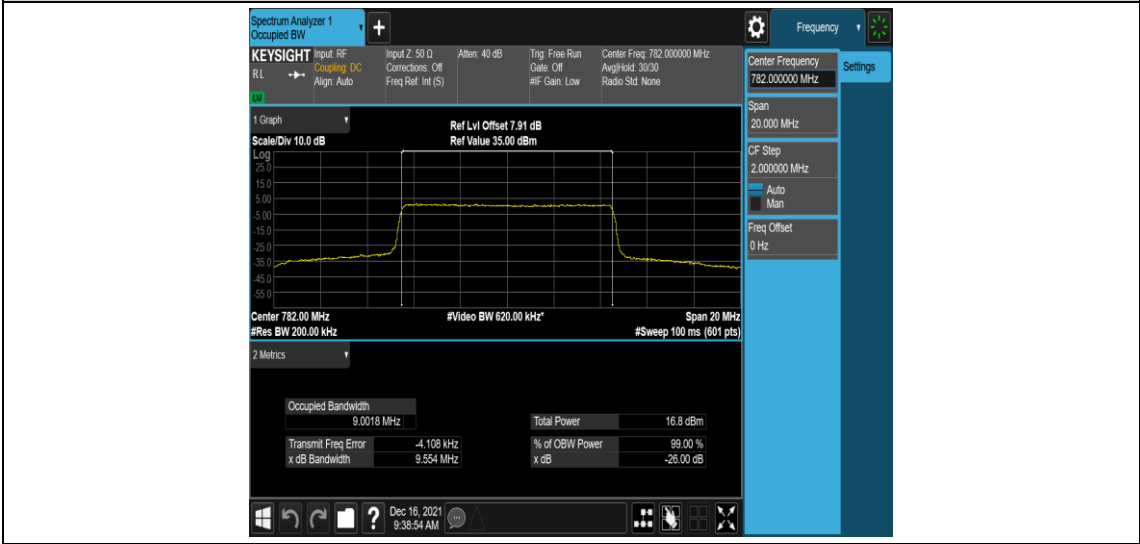


Band13-5MHz-QPSK-23230-25RB#0

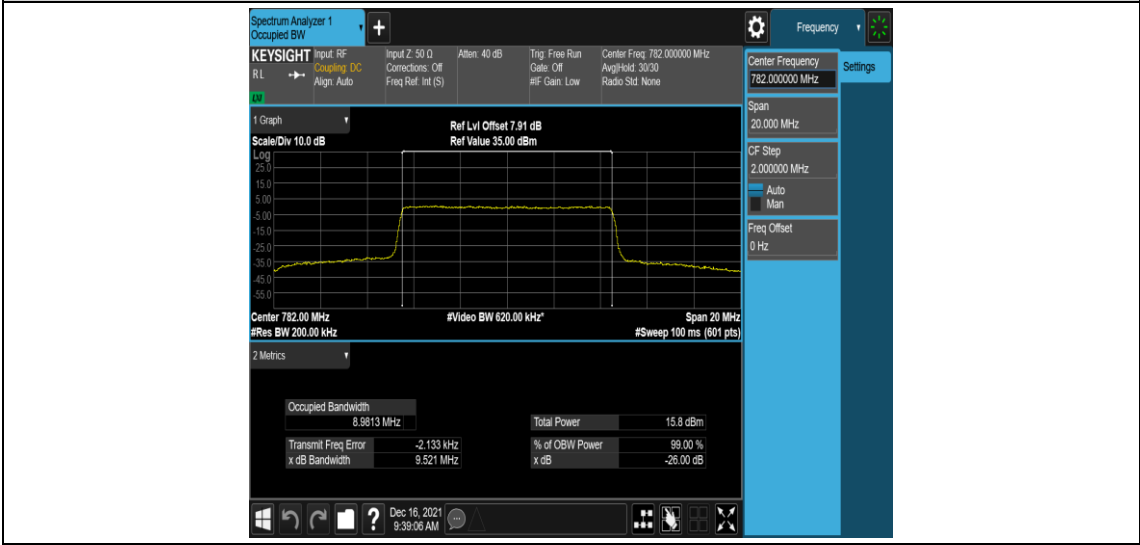




Band13-5MHz-16QAM-23255-25RB#0



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



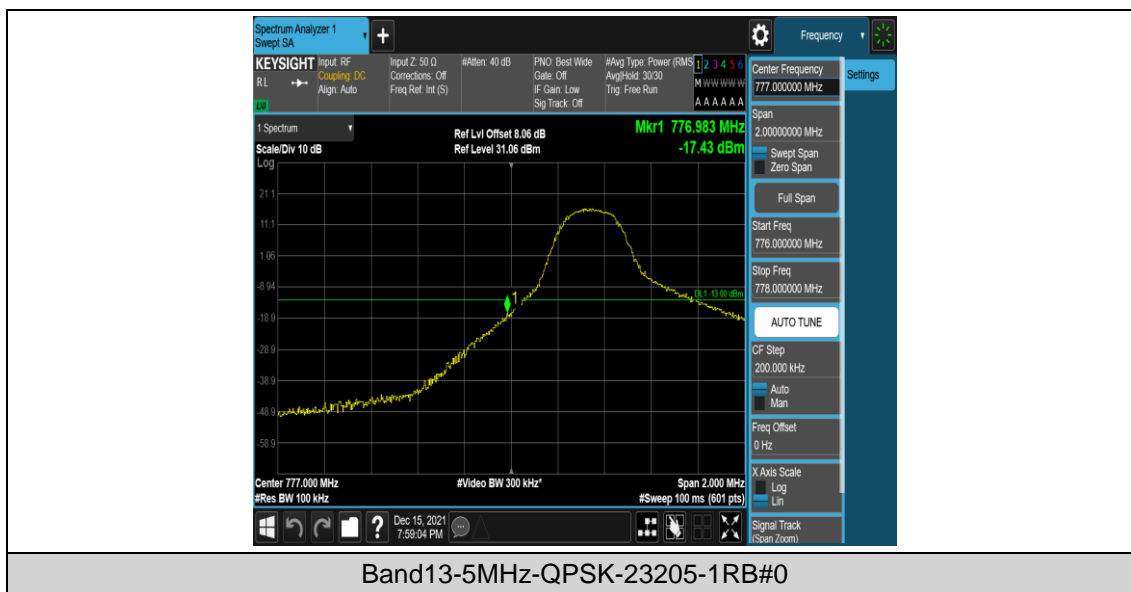
Band13-10MHz-16QAM-23230-50RB#0

## Appendix D: Band Edge

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Verdict
Band13	5MHz	QPSK	23205	1RB#0	PASS
Band13	5MHz	QPSK	23205	1RB#24	PASS
Band13	5MHz	QPSK	23205	25RB#0	PASS
Band13	5MHz	QPSK	23255	1RB#0	PASS
Band13	5MHz	QPSK	23255	1RB#24	PASS
Band13	5MHz	QPSK	23255	25RB#0	PASS
Band13	5MHz	16QAM	23205	1RB#0	PASS
Band13	5MHz	16QAM	23205	1RB#24	PASS
Band13	5MHz	16QAM	23205	25RB#0	PASS

### Test Graphs

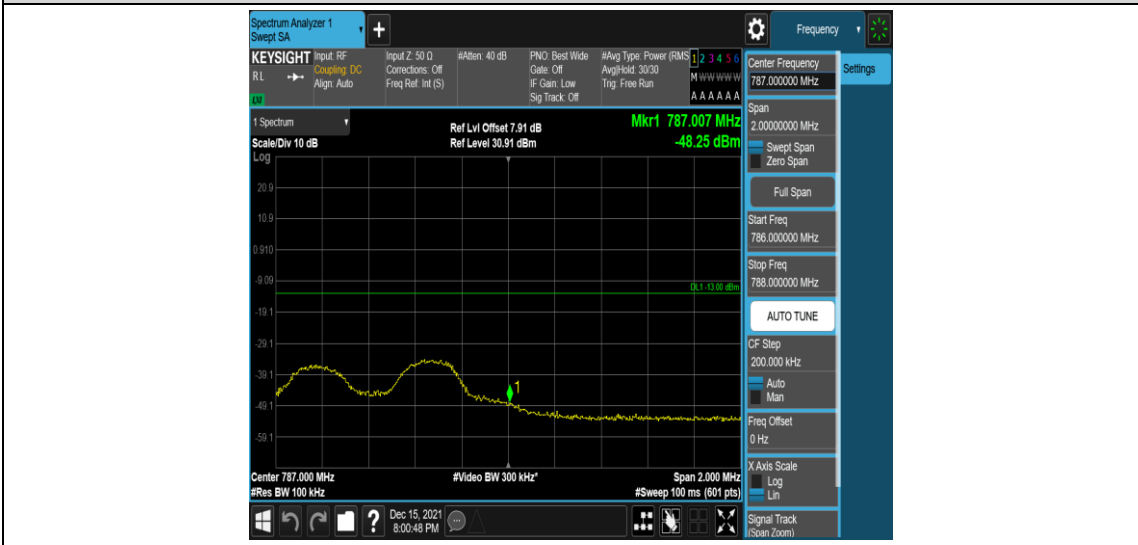




Band13-5MHz-QPSK-23205-1RB#24



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

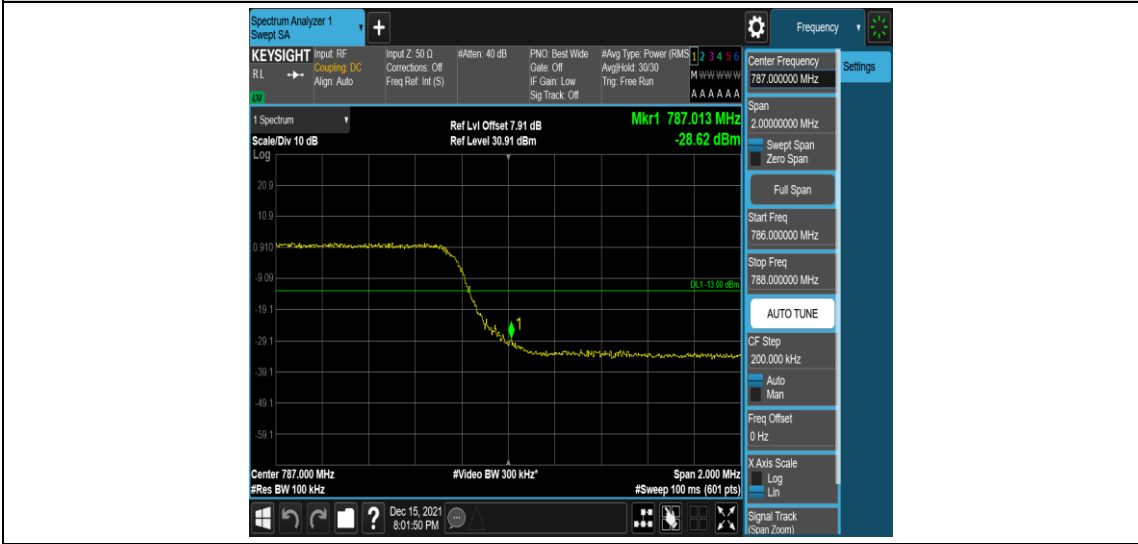


Band13-5MHz-QPSK-23255-1RB#0

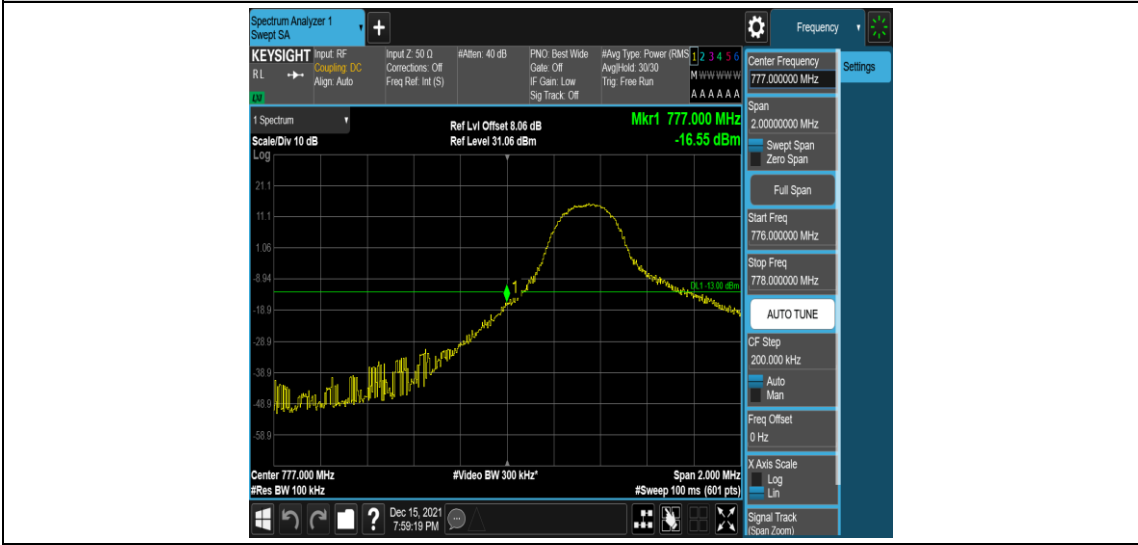




Band13-5MHz-QPSK-23255-1RB#24



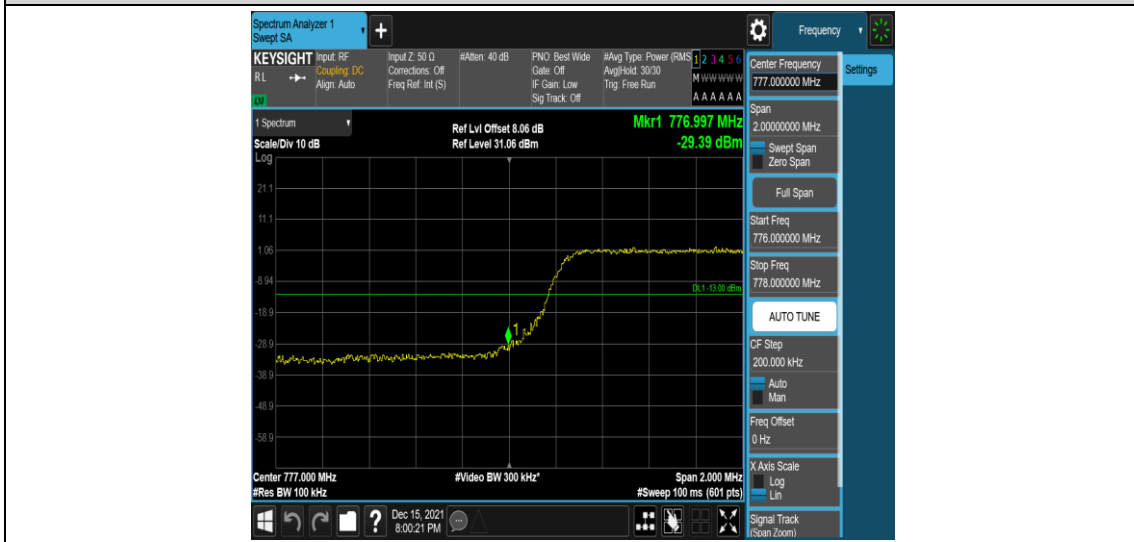
Band13-5MHz-QPSK-23255-25RB#0



Band13-5MHz-16QAM-23205-1RB#0



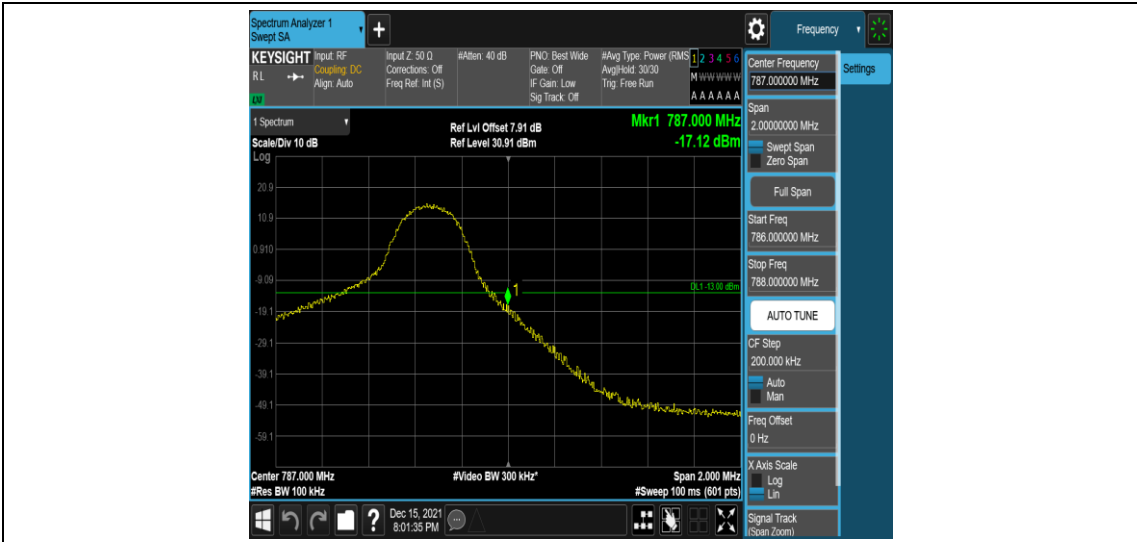
Band13-5MHz-16QAM-23205-1RB#24



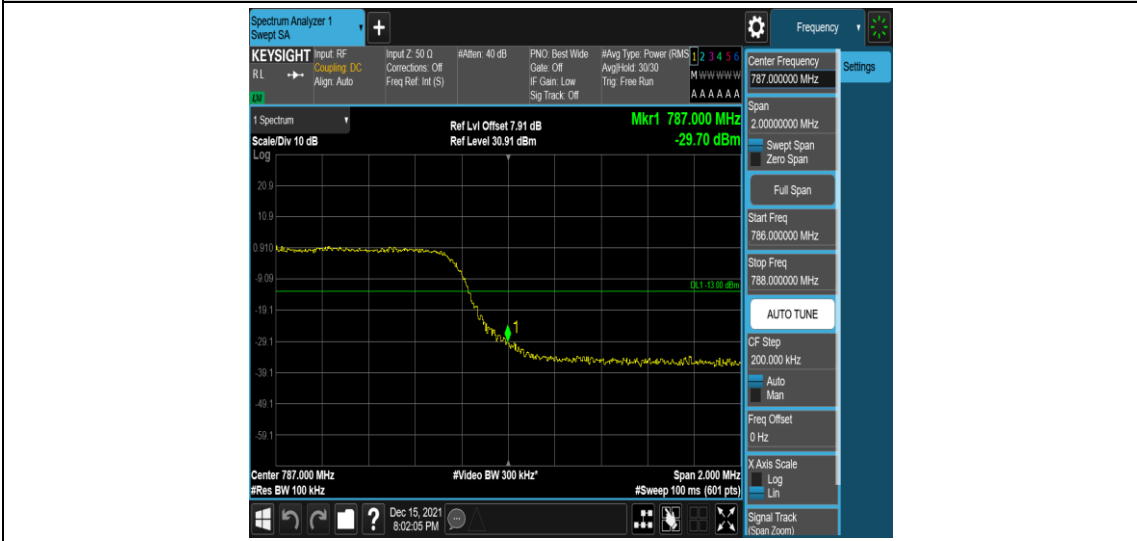
Band13-5MHz-16QAM-23205-25RB#0



Band13-5MHz-16QAM-23255-1RB#0



Band13-5MHz-16QAM-23255-1RB#24



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

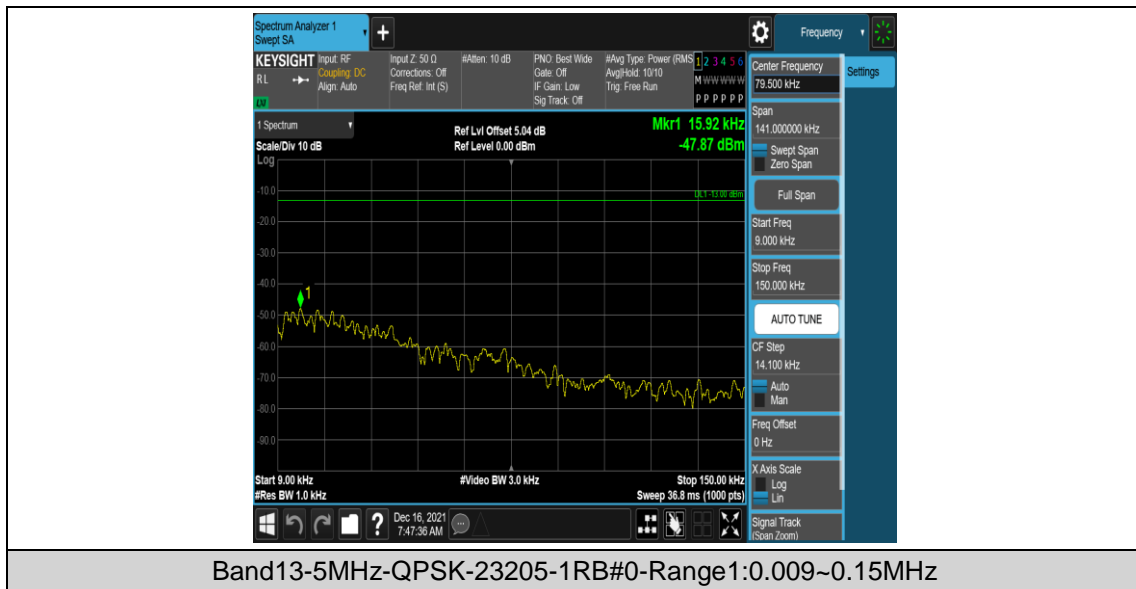
## Appendix E: Conducted Spurious Emission

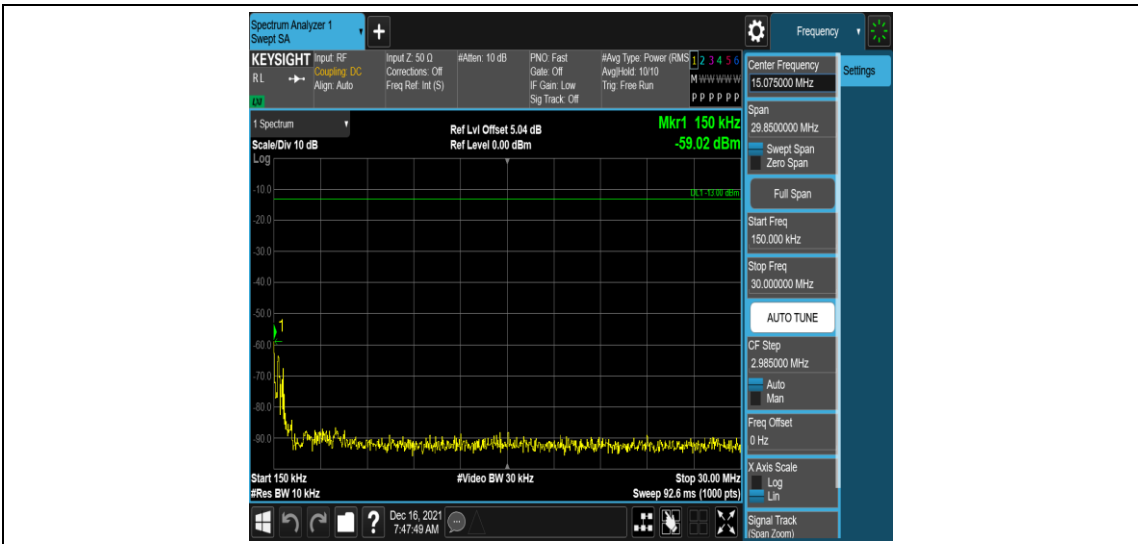
### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Verdict
Band13	5MHz	QPSK	23205	1RB#0	Range1:0.009~0.15MHz	PASS
Band13	5MHz	QPSK	23205	1RB#0	Range2:0.15~30MHz	PASS
Band13	5MHz	QPSK	23205	1RB#0	Range3:30~1000MHz	PASS
Band13	5MHz	QPSK	23205	1RB#0	Range5:763~775MHz	PASS
Band13	5MHz	QPSK	23205	1RB#0	Range6:793~805MHz	PASS
Band13	5MHz	QPSK	23205	1RB#0	Range4:1000~10000MHz	PASS
Band13	5MHz	QPSK	23205	1RB#0	Range7:1559~1610MHz	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range1:0.009~0.15MHz	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range2:0.15~30MHz	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range3:30~1000MHz	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range5:763~775MHz	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range6:793~805MHz	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range4:1000~10000MHz	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range7:1559~1610MHz	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range1:0.009~0.15MHz	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range2:0.15~30MHz	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range3:30~1000MHz	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range5:763~775MHz	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range6:793~805MHz	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range4:1000~10000MHz	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range7:1559~1610MHz	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range1:0.009~0.15MHz	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range2:0.15~30MHz	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range3:30~1000MHz	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range5:763~775MHz	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range6:793~805MHz	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range4:1000~10000MHz	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range7:1559~1610MHz	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range1:0.009~0.15MHz	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range2:0.15~30MHz	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range3:30~1000MHz	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range5:763~775MHz	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range6:793~805MHz	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range4:1000~10000MHz	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range7:1559~1610MHz	PASS

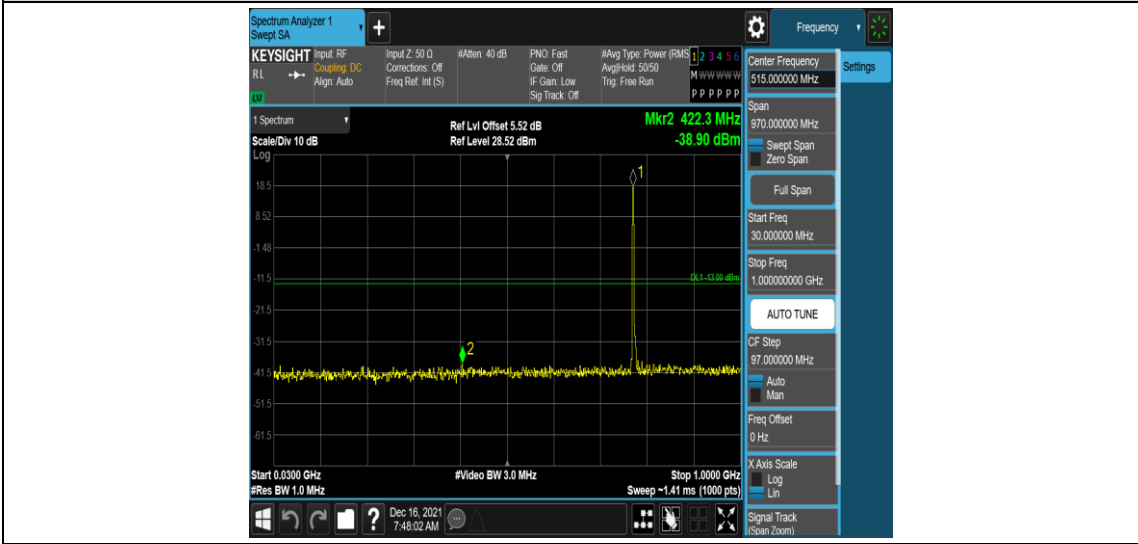
Band13	5MHz	16QAM	23255	1RB#0	Range1:0.009~0.15MHz	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range2:0.15~30MHz	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range3:30~1000MHz	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range5:763~775MHz	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range6:793~805MHz	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range4:1000~10000MHz	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range7:1559~1610MHz	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range1:0.009~0.15MHz	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range2:0.15~30MHz	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range3:30~1000MHz	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range5:763~775MHz	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range6:793~805MHz	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range4:1000~10000MHz	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range7:1559~1610MHz	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range1:0.009~0.15MHz	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range2:0.15~30MHz	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range3:30~1000MHz	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range5:763~775MHz	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range6:793~805MHz	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range4:1000~10000MHz	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range7:1559~1610MHz	PASS

### Test Graphs

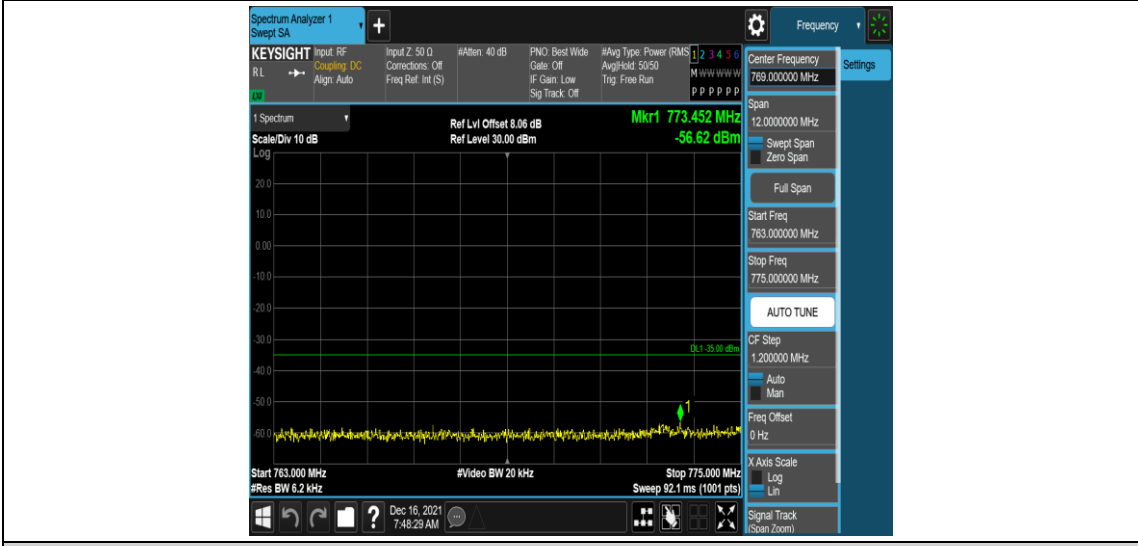




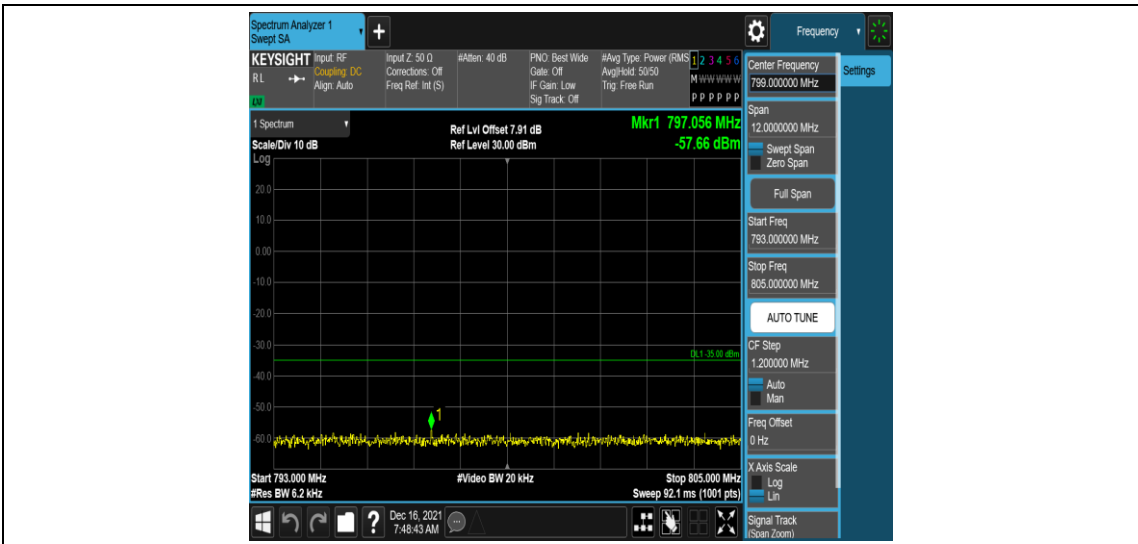
Band13-5MHz-QPSK-23205-1RB#0-Range2:0.15~30MHz



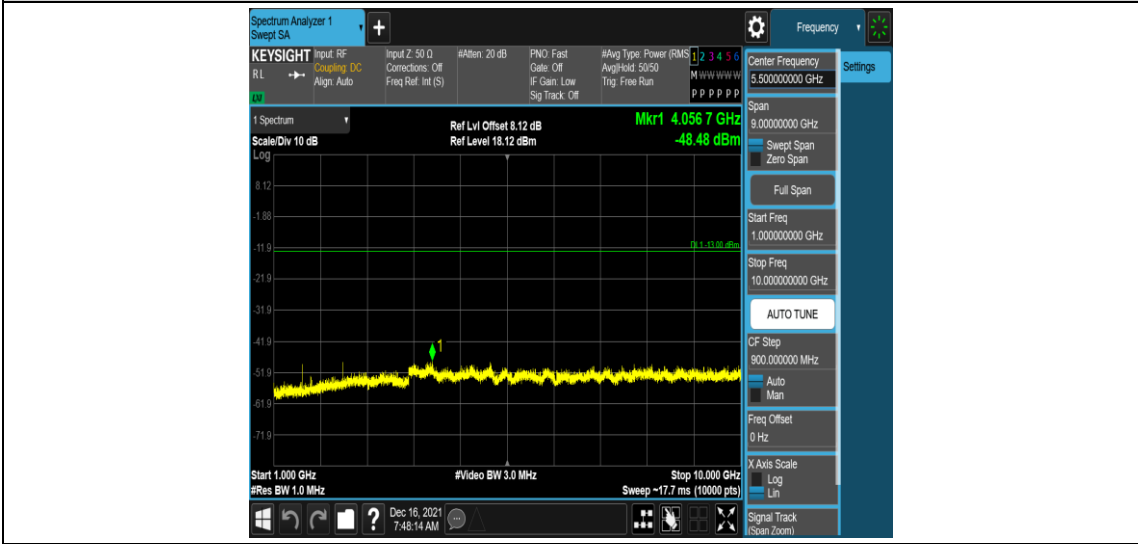
Band13-5MHz-QPSK-23205-1RB#0-Range3:30~1000MHz



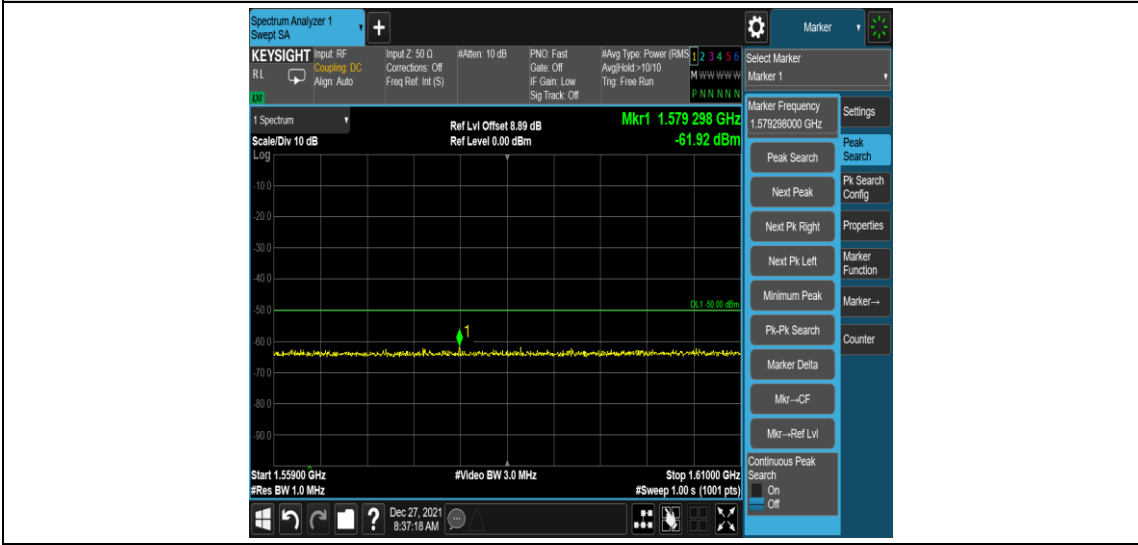
Band13-5MHz-QPSK-23205-1RB#0-Range5:763~775MHz



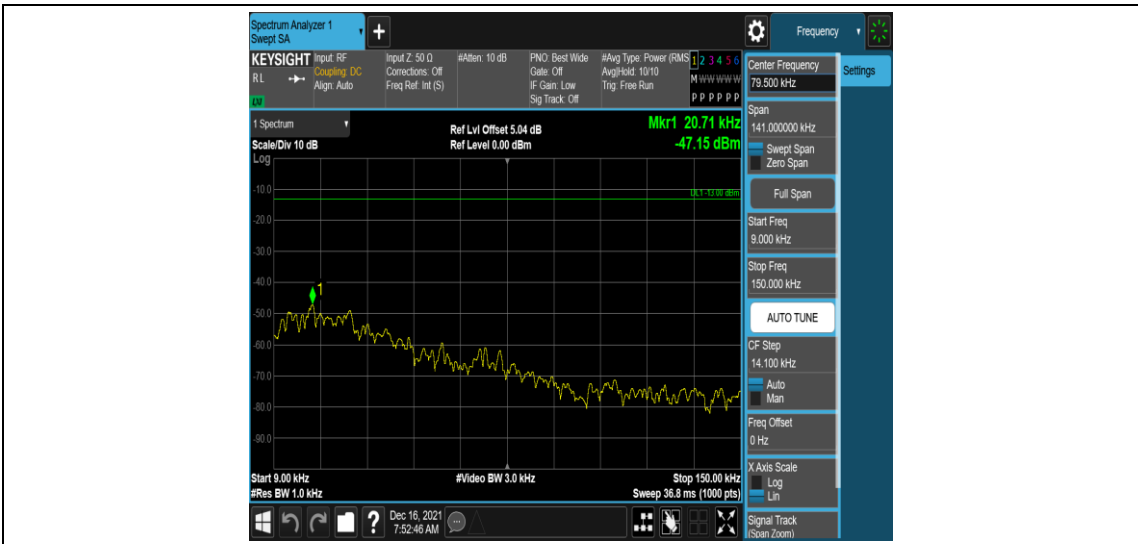
Band13-5MHz-QPSK-23205-1RB#0-Range6:793~805MHz



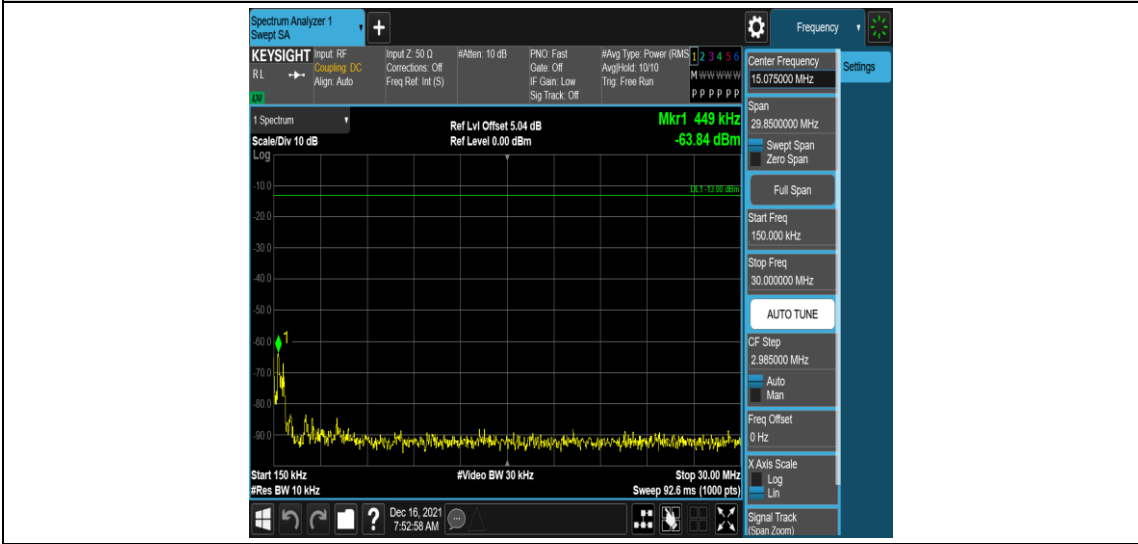
Band13-5MHz-QPSK-23205-1RB#0-Range4:1000~10000MHz



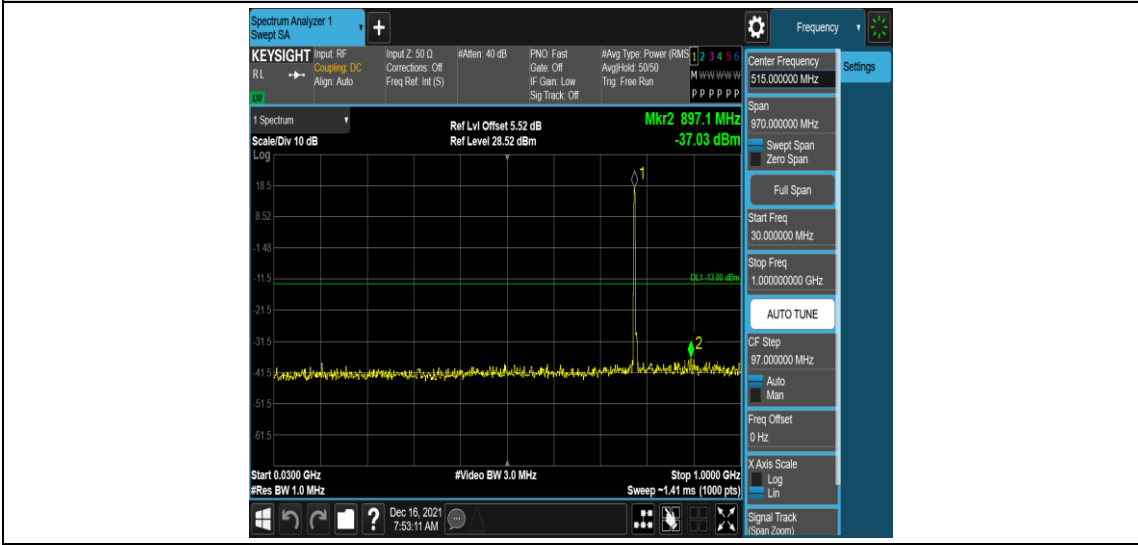
Band13-5MHz-QPSK-23205-1RB#0-Range7:1559~1610MHz



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

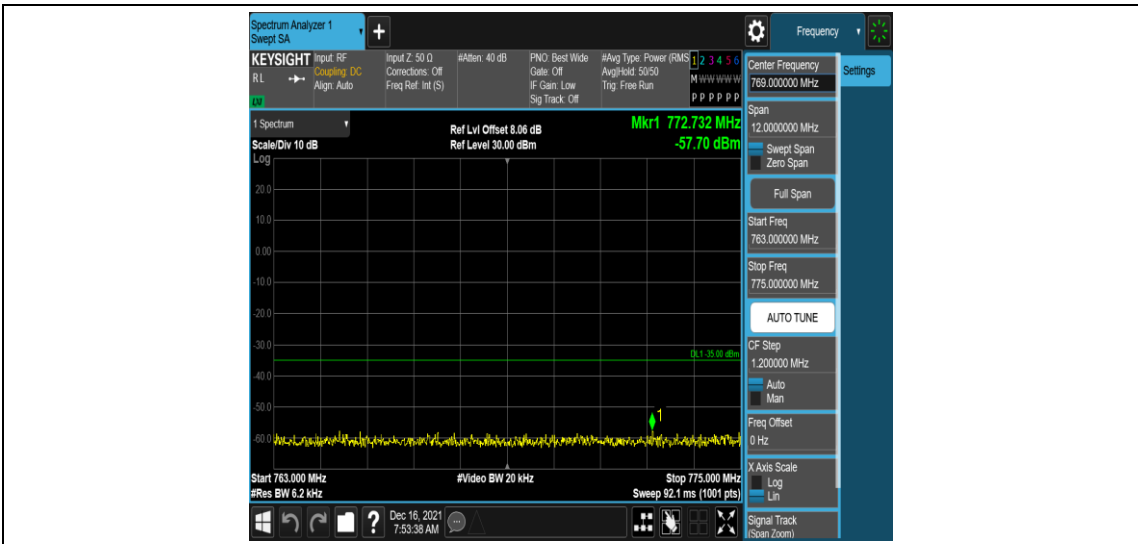


Band13-5MHz-QPSK-23230-1RB#0-Range2:0.15~30MHz

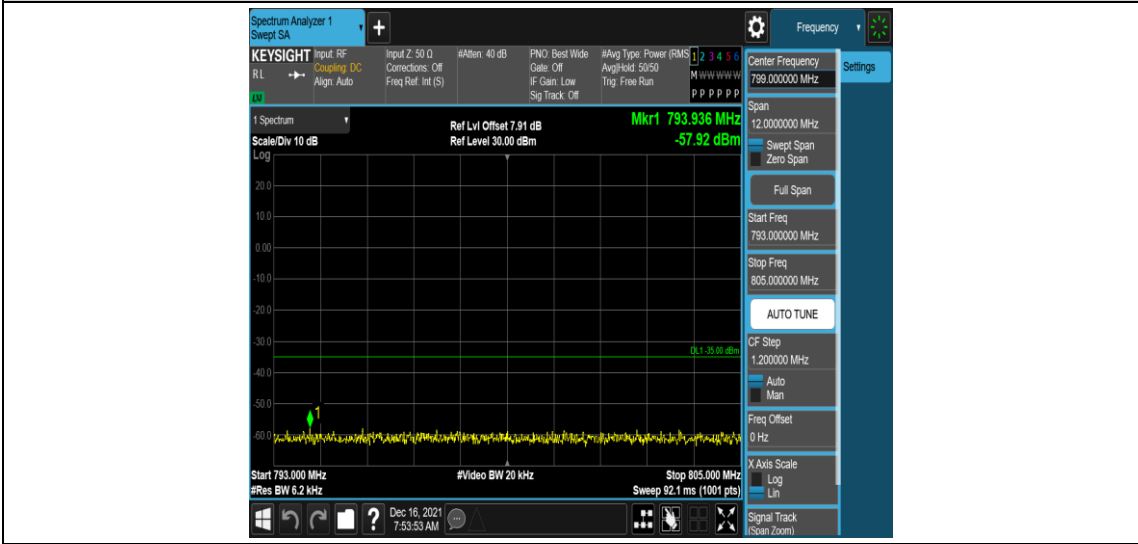


Band13-5MHz-QPSK-23230-1RB#0-Range3:30~1000MHz

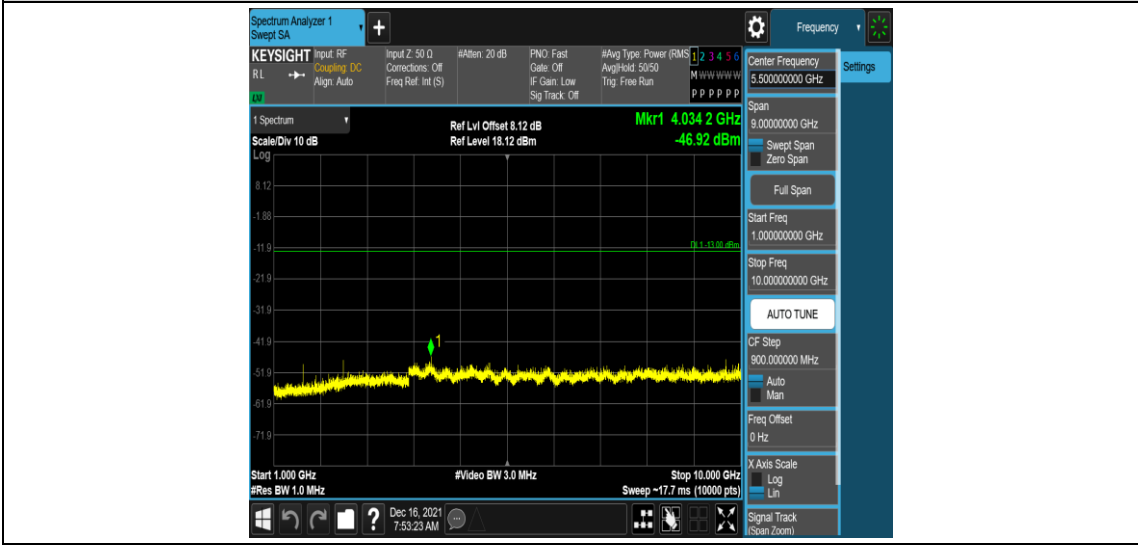




Band13-5MHz-QPSK-23230-1RB#0-Range5:763~775MHz



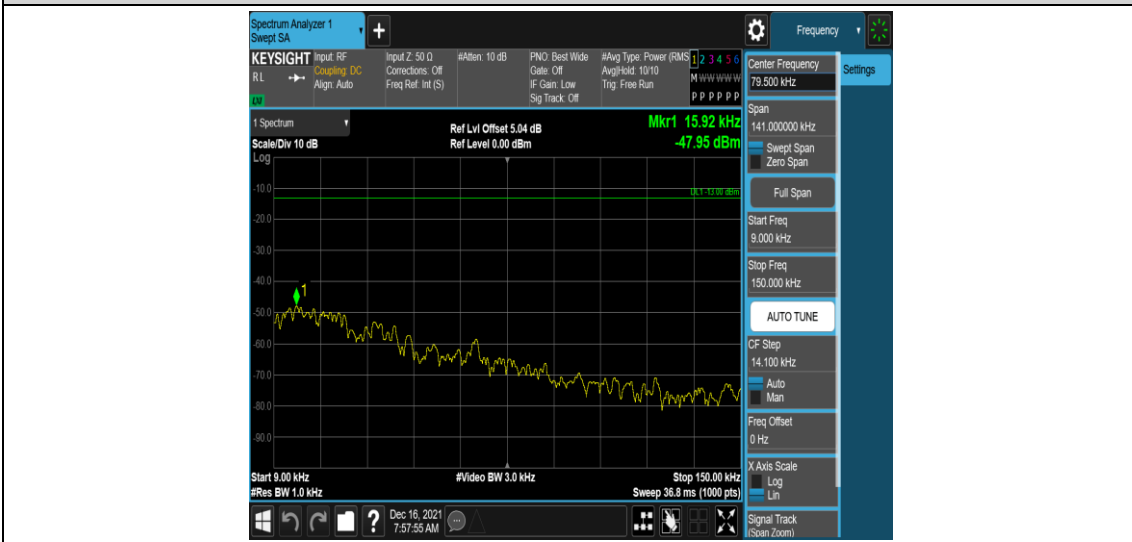
Band13-5MHz-QPSK-23230-1RB#0-Range6:793~805MHz



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



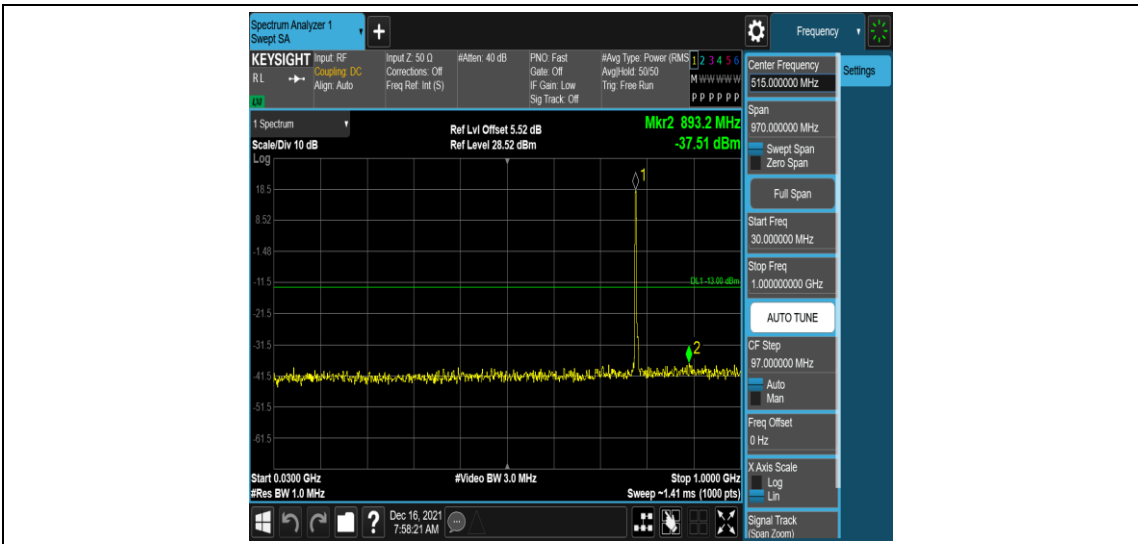
Band13-5MHz-QPSK-23230-1RB#0-Range7:1559~1610MHz



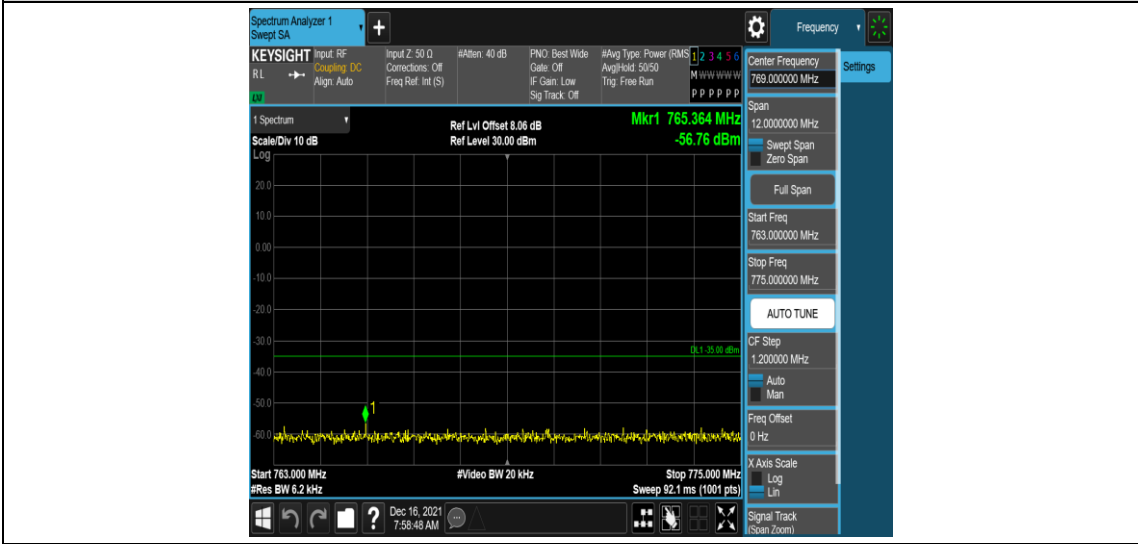
Band13-5MHz-QPSK-23255-1RB#0-Range1:0.009~0.15MHz



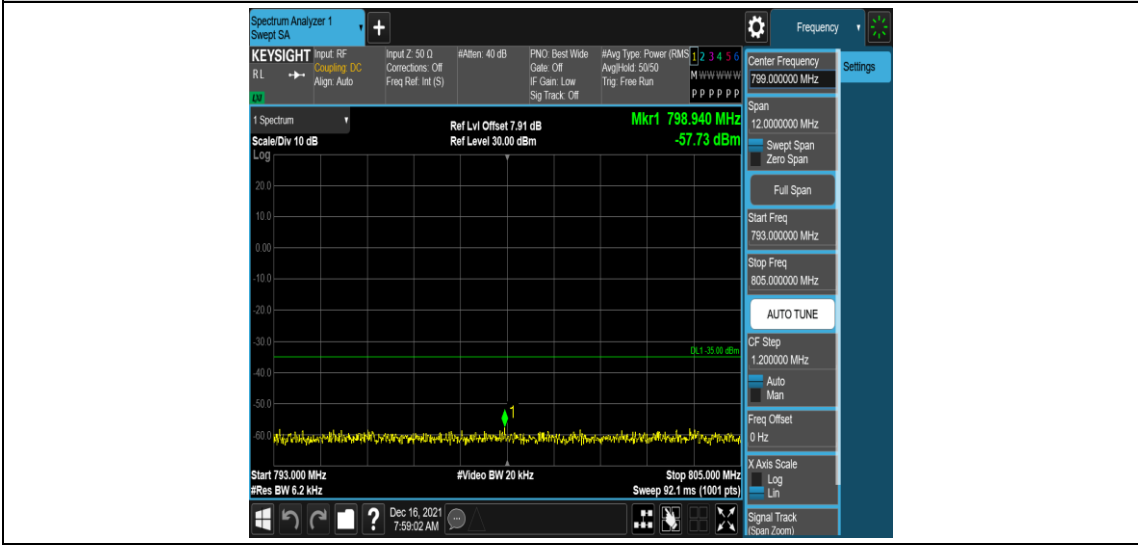
Band13-5MHz-QPSK-23255-1RB#0-Range2:0.15~30MHz



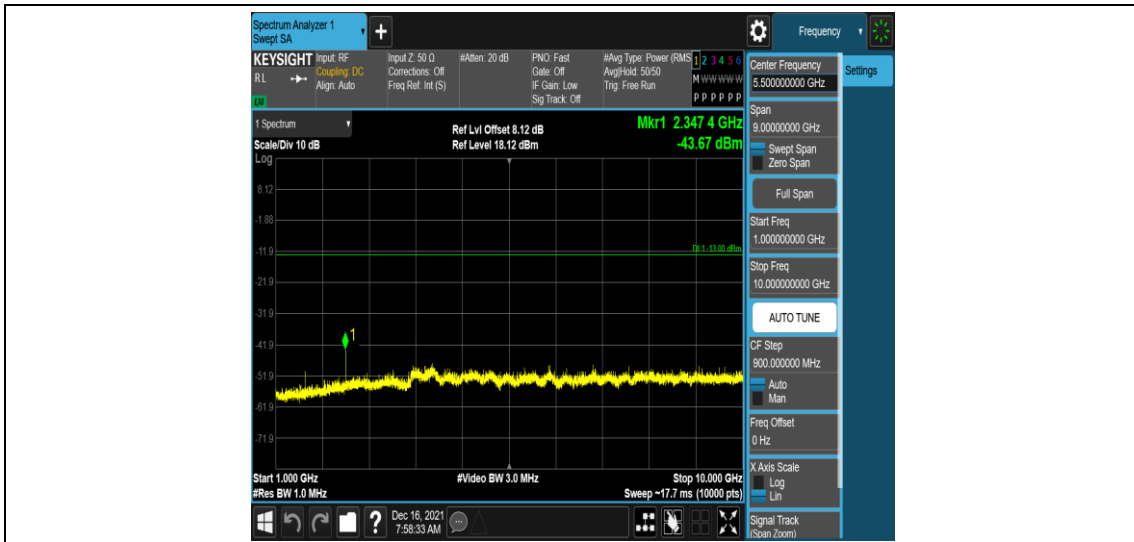
Band13-5MHz-QPSK-23255-1RB#0-Range3:30~1000MHz



Band13-5MHz-QPSK-23255-1RB#0-Range5:763~775MHz



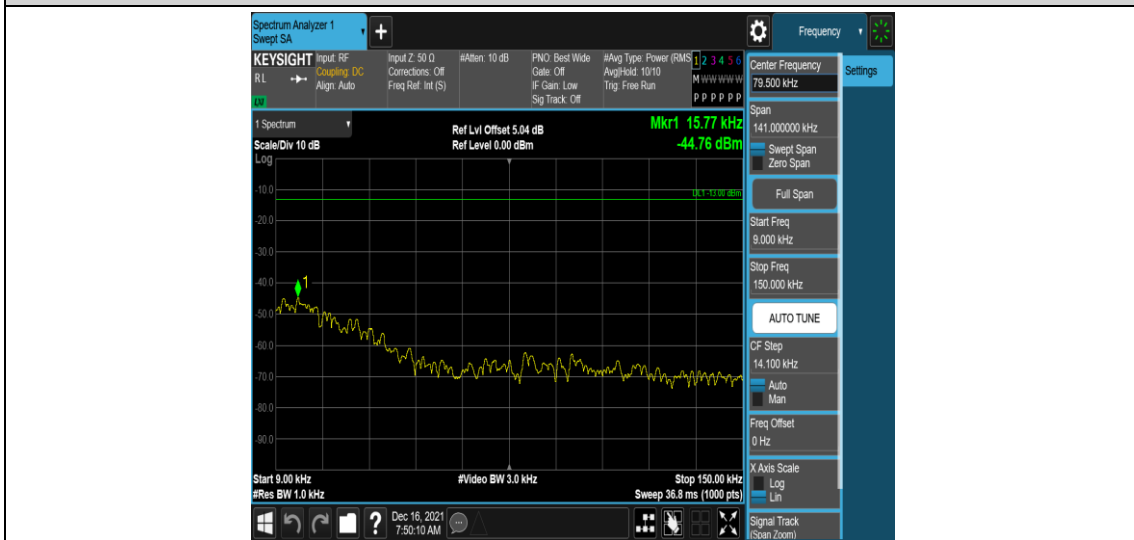
Band13-5MHz-QPSK-23255-1RB#0-Range6:793~805MHz



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



Band13-5MHz-QPSK-23255-1RB#0-Range7:1559~1610MHz



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