Band4-20MHz-16QAM-20050-100RB#0

Band4-20MHz-16QAM-20175-100RB#0

Band4-20MHz-16QAM-20300-100RB#0

Agilent Spectrum Analyzer - Occupied BW
Center Freq 1.745000000 GHz
Center Freq: 1.745000000 GHz
Trig: Free Run
Avg|Hold: 30/30
#Atten: 40 dB
Radio Std: None
Radio Device: BTS
#IFGain:Low
Frequency
10 dB/div
Ref 35.00 dBm
Center 1.745 GHz
Res BW 390 kHz
#VBW 1.2 MHz
Span 40 MHz
#Sweep 100 ms
Occupied Bandwidth
17.979 MHz
Total Power 23.4 dBm
Transmit Freq Error 14.848 kHz
OBW Power 99.00 %
x dB Bandwidth 19.06 MHz
x dB -26.00 dB
Center Freq
1.745000000 GHz
CF Step
4.000000 MHz
Auto Man
Freq Offset
0 Hz

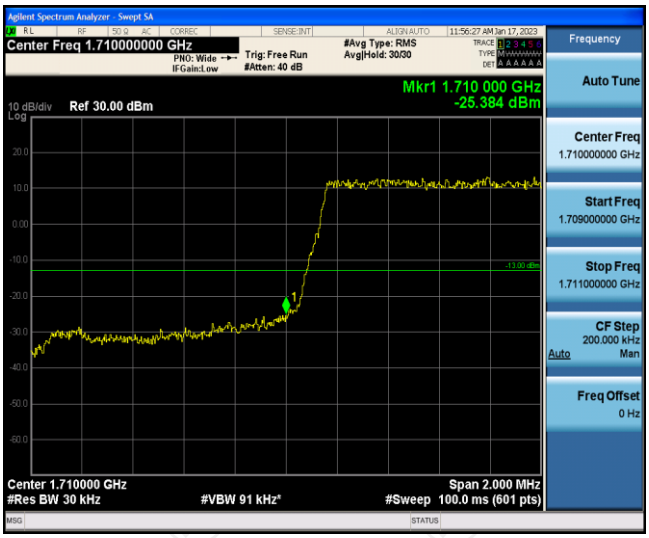
Appendix D: Band Edge

Test Result

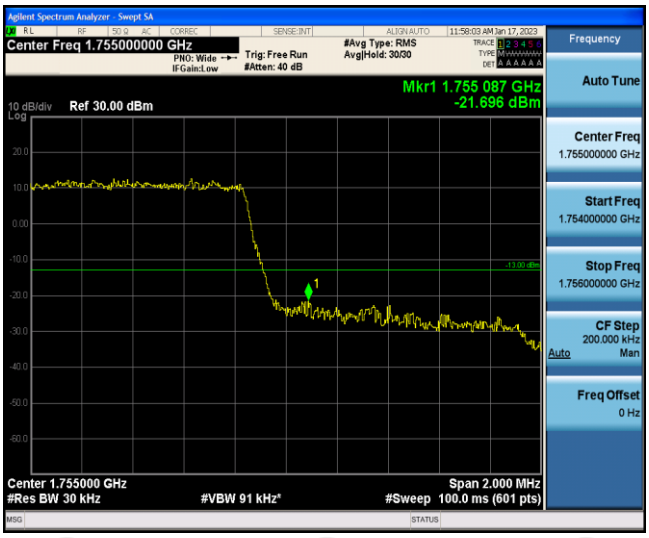
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	-25.38	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	-21.70	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	-24.50	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	-22.65	PASS
Band4	3MHz	QPSK	19965	15RB#0	-16.38	PASS
Band4	3MHz	QPSK	20385	15RB#0	-17.67	PASS
Band4	3MHz	16QAM	19965	15RB#0	-16.72	PASS
Band4	3MHz	16QAM	20385	15RB#0	-16.32	PASS
Band4	5MHz	QPSK	19975	25RB#0	-20.18	PASS
Band4	5MHz	QPSK	20375	25RB#0	-21.33	PASS
Band4	5MHz	16QAM	19975	25RB#0	-21.26	PASS
Band4	5MHz	16QAM	20375	25RB#0	-20.50	PASS
Band4	10MHz	QPSK	20000	50RB#0	-23.96	PASS
Band4	10MHz	QPSK	20350	50RB#0	-21.76	PASS
Band4	10MHz	16QAM	20000	50RB#0	-24.78	PASS
Band4	10MHz	16QAM	20350	50RB#0	-22.83	PASS
Band4	15MHz	QPSK	20025	75RB#0	-23.87	PASS
Band4	15MHz	QPSK	20325	75RB#0	-22.56	PASS
Band4	15MHz	16QAM	20025	75RB#0	-23.73	PASS
Band4	15MHz	16QAM	20325	75RB#0	-21.62	PASS
Band4	20MHz	QPSK	20050	100RB#0	-26.06	PASS
Band4	20MHz	QPSK	20300	100RB#0	-24.85	PASS
Band4	20MHz	16QAM	20050	100RB#0	-25.12	PASS
Band4	20MHz	16QAM	20300	100RB#0	-26.55	PASS

Test Graphs

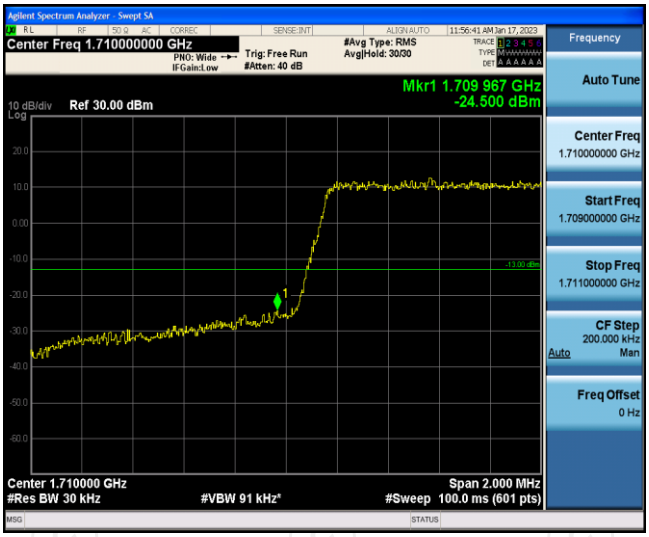
Band4-1.4MHz-QPSK-19957-6RB#0



Band4-1.4MHz-QPSK-20393-6RB#0

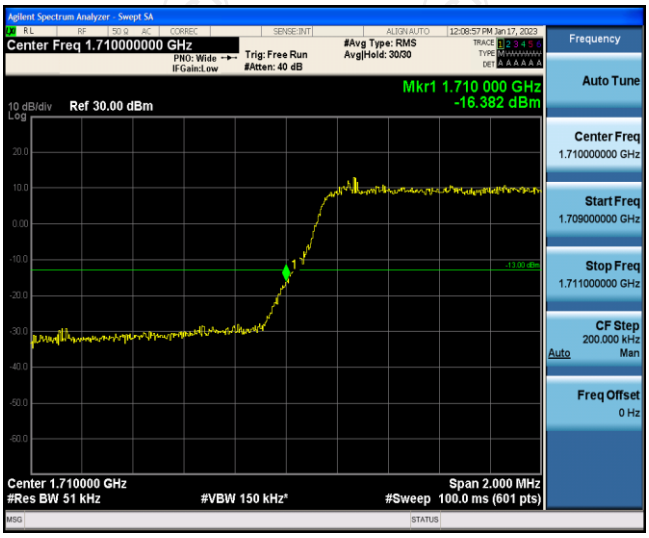


Band4-1.4MHz-16QAM-19957-6RB#0



Band4-1.4MHz-16QAM-20393-6RB#0

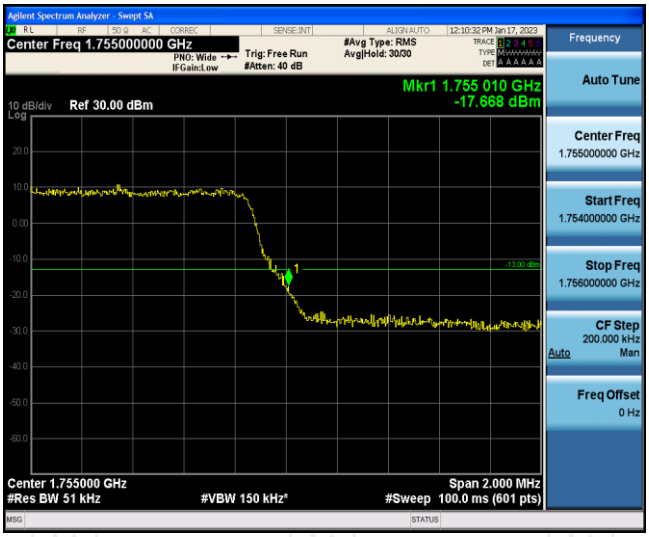
Band4-3MHz-QPSK-19965-15RB#0



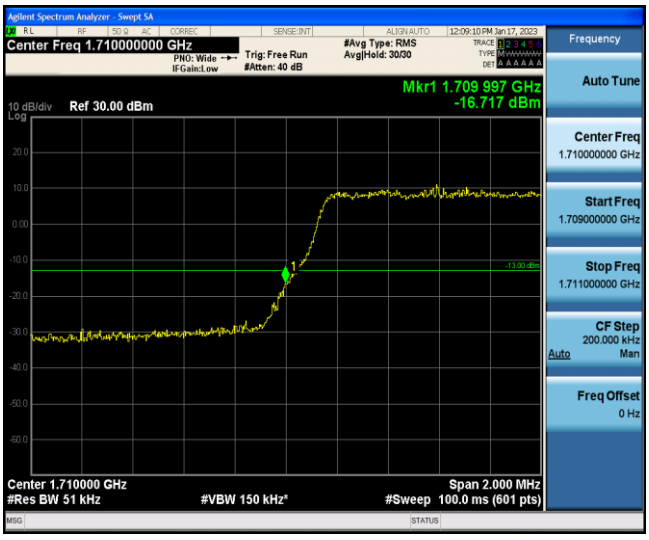
Band4-3MHz-QPSK-20385-1RB#0

Band4-3MHz-QPSK-20385-15RB#0

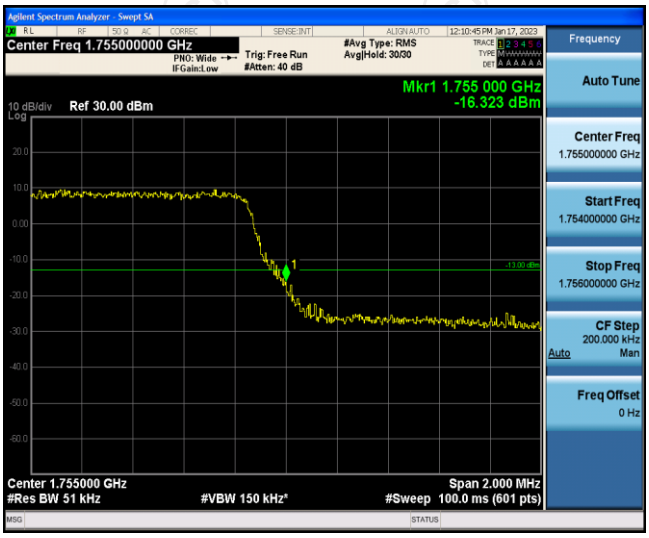
Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com



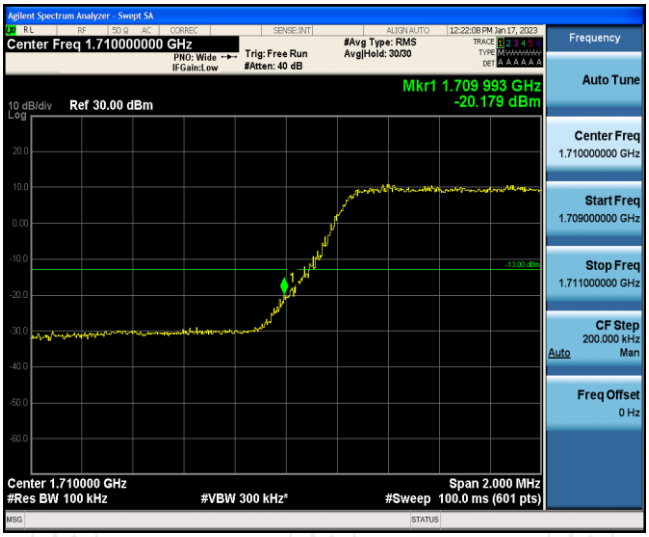
Band4-3MHz-16QAM-19965-15RB#0



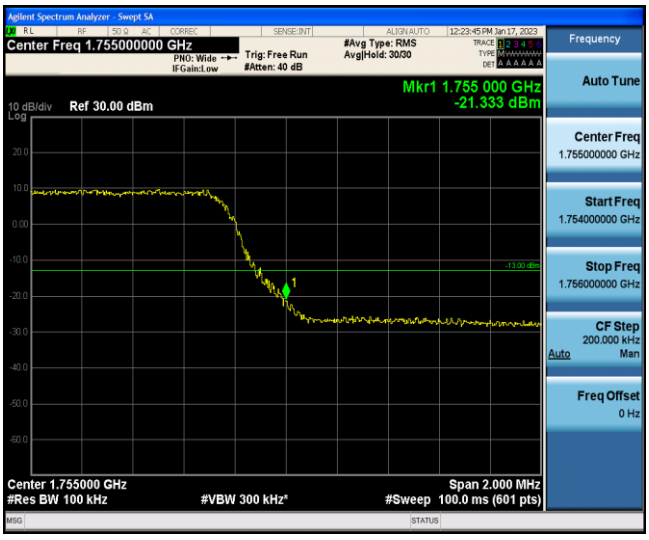
Band4-3MHz-16QAM-20385-15RB#0



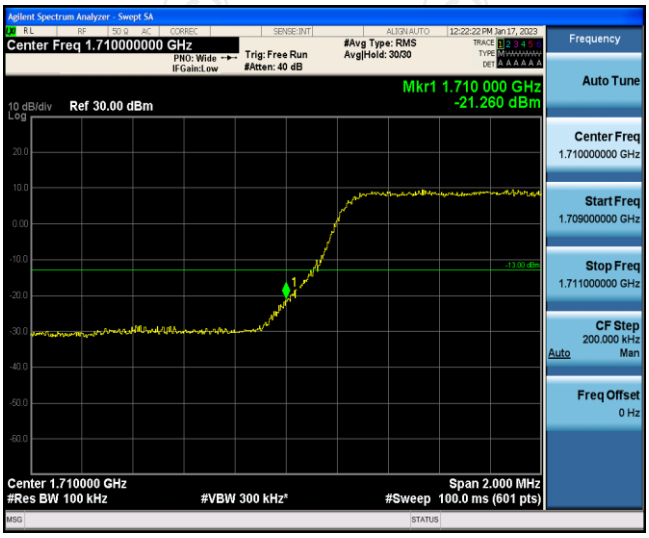
Band4-5MHz-QPSK-19975-25RB#0



Band4-5MHz-QPSK-20375-25RB#0

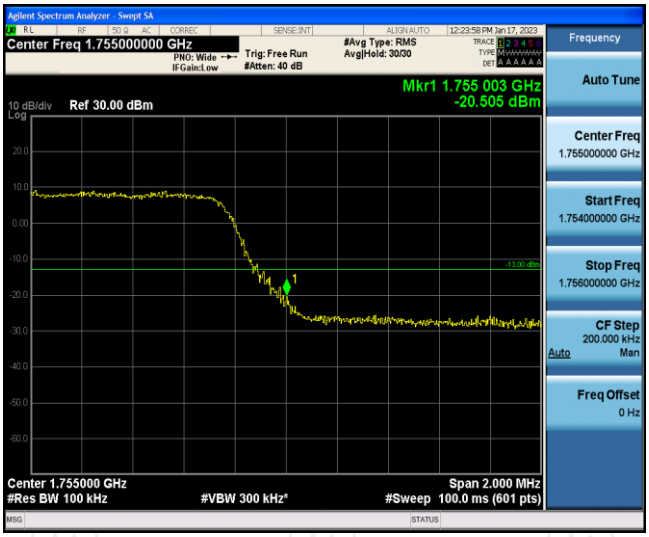


Band4-5MHz-16QAM-19975-25RB#0

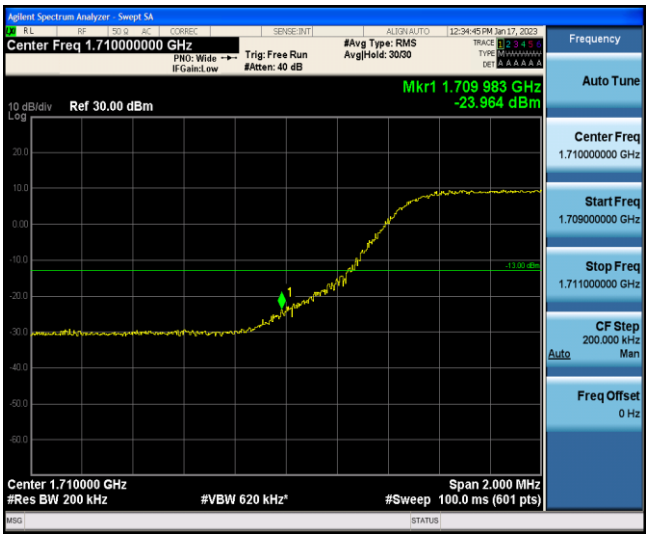


Band4-5MHz-16QAM-20375-25RB#0

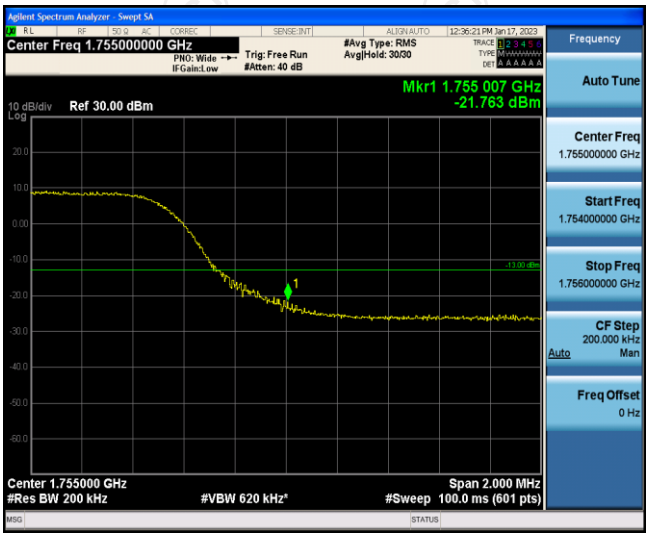
Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com



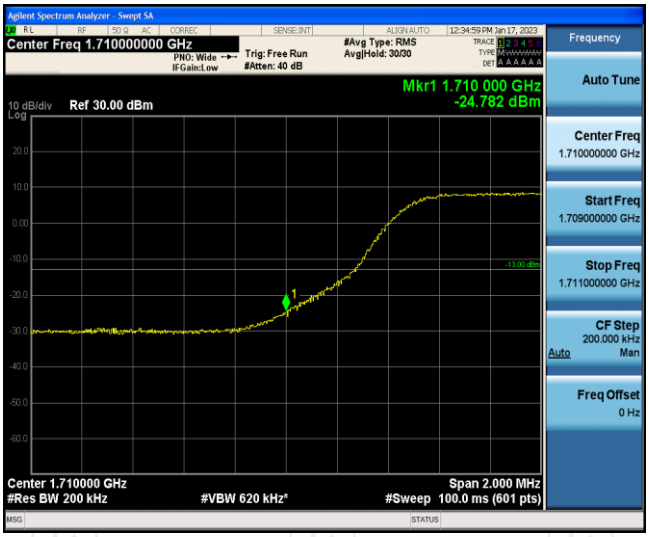
Band4-10MHz-QPSK-20000-50RB#0



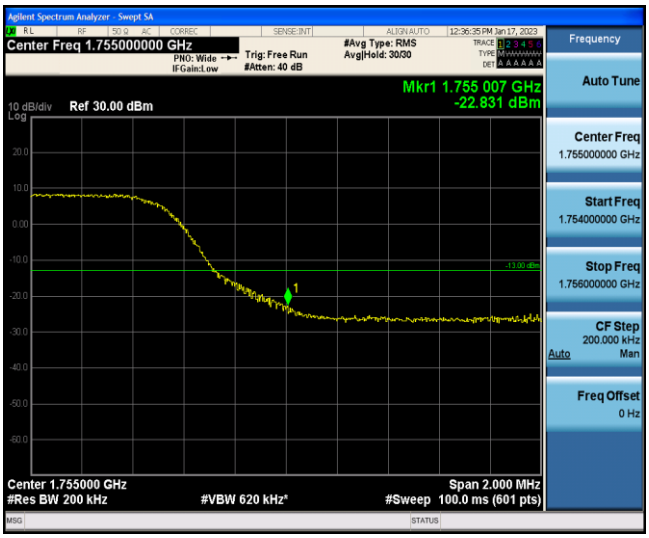
Band4-10MHz-QPSK-20350-50RB#0



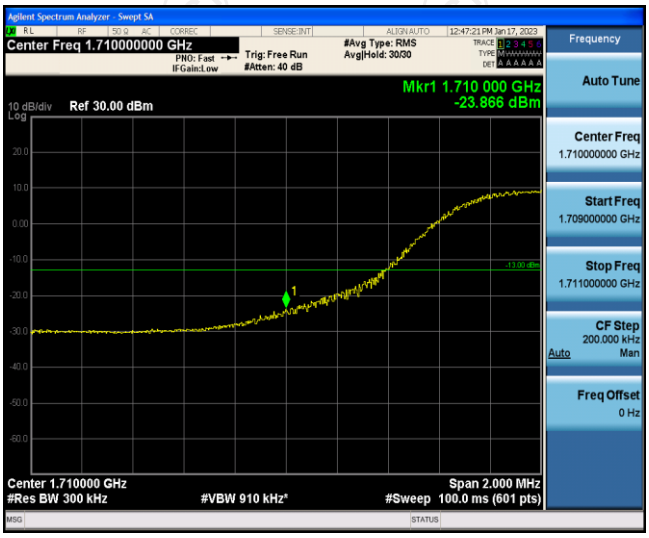
Band4-10MHz-16QAM-20000-50RB#0



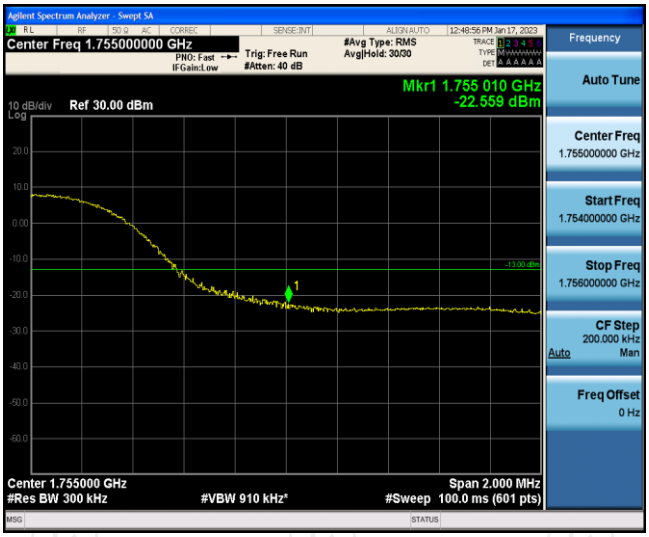
Band4-10MHz-16QAM-20350-50RB#0



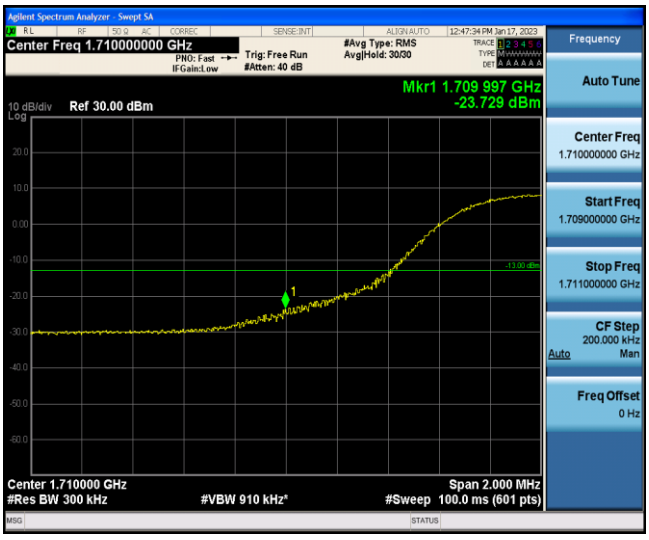
Band4-15MHz-QPSK-20025-75RB#0



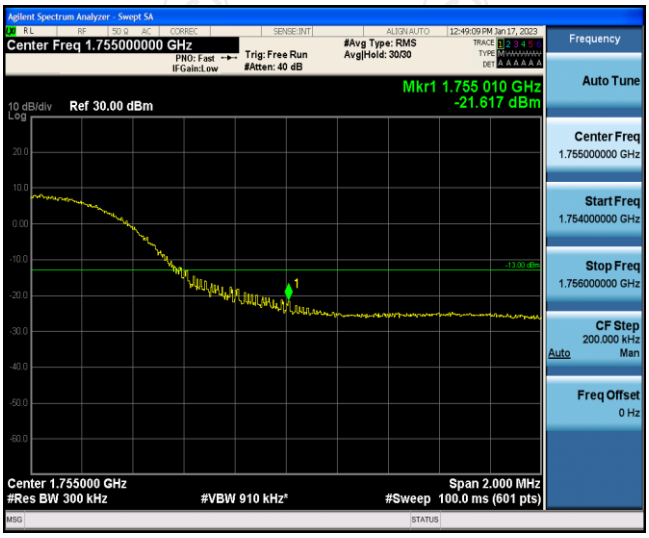
Band4-15MHz-QPSK-20325-75RB#0



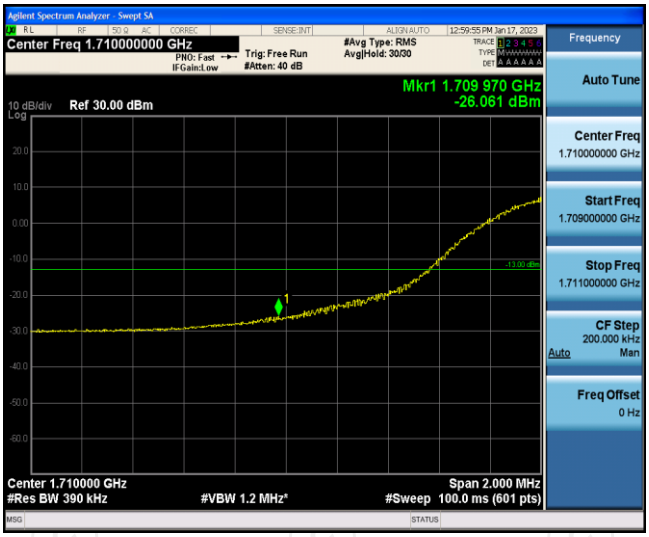
Band4-15MHz-16QAM-20025-75RB#0



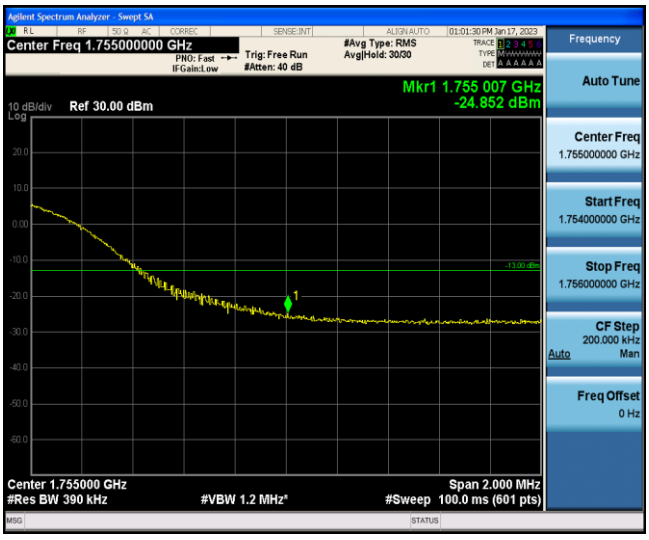
Band4-15MHz-16QAM-20325-75RB#0



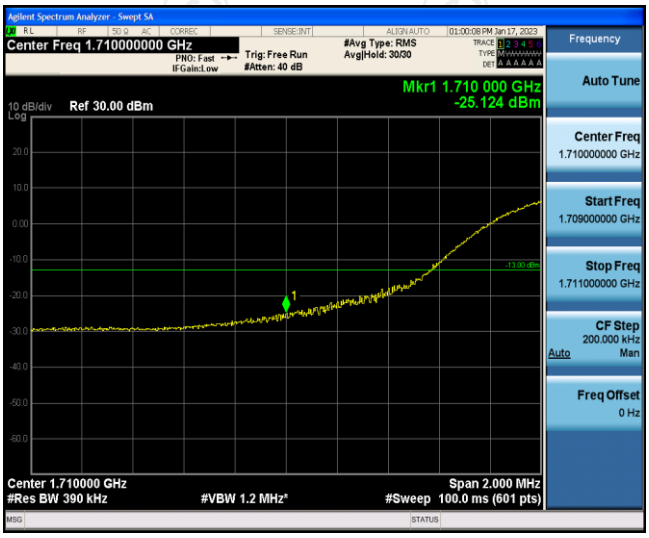
Band4-20MHz-QPSK-20050-100RB#0



Band4-20MHz-QPSK-20300-100RB#0

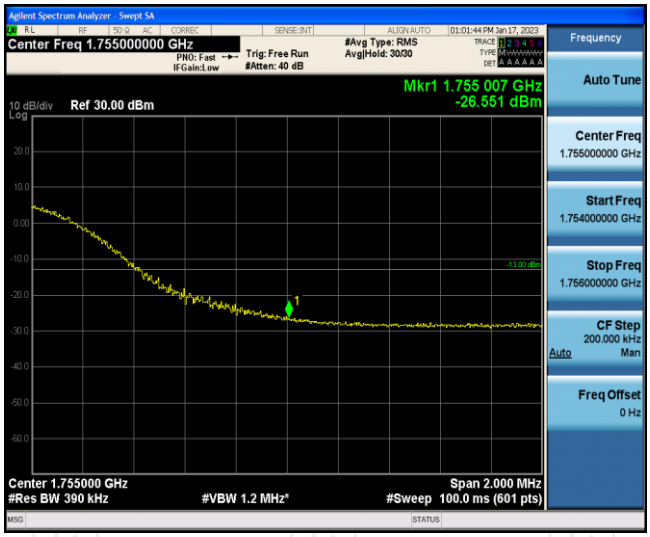


Band4-20MHz-16QAM-20050-100RB#0



Band4-20MHz-16QAM-20300-100RB#0

Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com


Agilent Spectrum Analyzer - Swept SA
Center Freq 1.755000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 40 dB
#Avg Type: RMS
Avg|Hold: 30/30
01:01:44 PM Jan 17, 2023
Mkr1 1.755 007 GHz
-26.551 dBm
10 dB/div
Ref 30.00 dBm
Log
-13.00 dBm
Center 1.755000 GHz
#Res BW 390 kHz
#VBW 1.2 MHz*
Span 2.000 MHz
#Sweep 100.0 ms (601 pts)
Frequency
Auto Tune
Center Freq
1.755000000 GHz
Start Freq
1.754000000 GHz
Stop Freq
1.756000000 GHz
CF Step
200.000 kHz
Auto
Man
Freq Offset
0 Hz

Appendix E: Conducted Spurious Emission

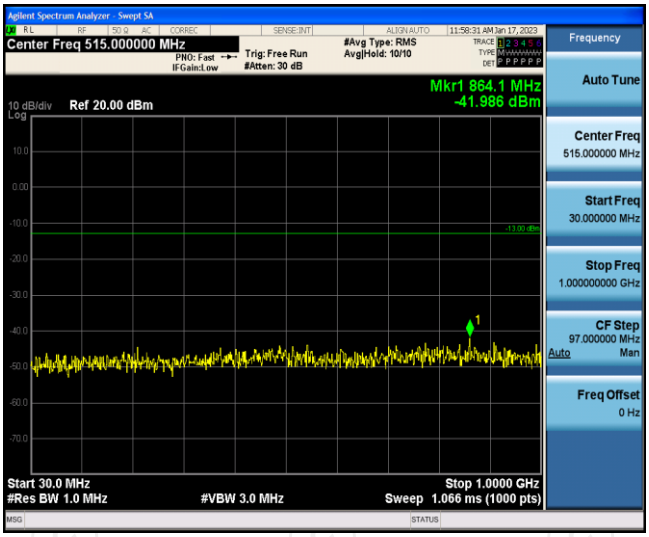
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	Range1:30~1000MHz	-41.99	PASS
Band4	1.4MHz	QPSK	19957	1RB#0	Range2:1000~20000MHz	-25.84	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	Range1:30~1000MHz	-43.4	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	Range2:1000~20000MHz	-25.66	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	Range1:30~1000MHz	-43.06	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	Range2:1000~20000MHz	-25.58	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	Range1:30~1000MHz	-43.76	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	Range2:1000~20000MHz	-26.08	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	Range1:30~1000MHz	-43.19	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	Range2:1000~20000MHz	-24.98	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	Range1:30~1000MHz	-43.02	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	Range2:1000~20000MHz	-26.05	PASS
Band4	3MHz	QPSK	19965	1RB#0	Range1:30~1000MHz	-43.2	PASS
Band4	3MHz	QPSK	19965	1RB#0	Range2:1000~20000MHz	-26.16	PASS
Band4	3MHz	QPSK	20175	1RB#0	Range1:30~1000MHz	-42.35	PASS
Band4	3MHz	QPSK	20175	1RB#0	Range2:1000~20000MHz	-25.8	PASS
Band4	3MHz	QPSK	20385	1RB#0	Range1:30~1000MHz	-43.51	PASS
Band4	3MHz	QPSK	20385	1RB#0	Range2:1000~20000MHz	-25.89	PASS
Band4	3MHz	16QAM	19965	1RB#0	Range1:30~1000MHz	-43.35	PASS
Band4	3MHz	16QAM	19965	1RB#0	Range2:1000~20000MHz	-25.84	PASS
Band4	3MHz	16QAM	20175	1RB#0	Range1:30~1000MHz	-42.84	PASS
Band4	3MHz	16QAM	20175	1RB#0	Range2:1000~20000MHz	-25.08	PASS
Band4	3MHz	16QAM	20385	1RB#0	Range1:30~1000MHz	-43.23	PASS
Band4	3MHz	16QAM	20385	1RB#0	Range2:1000~20000MHz	-26.04	PASS
Band4	5MHz	QPSK	19975	1RB#0	Range1:30~1000MHz	-43.57	PASS
Band4	5MHz	QPSK	19975	1RB#0	Range2:1000~20000MHz	-25.97	PASS
Band4	5MHz	QPSK	20175	1RB#0	Range1:30~1000MHz	-41.43	PASS
Band4	5MHz	QPSK	20175	1RB#0	Range2:1000~20000MHz	-25.96	PASS
Band4	5MHz	QPSK	20375	1RB#0	Range1:30~1000MHz	-43.2	PASS
Band4	5MHz	QPSK	20375	1RB#0	Range2:1000~20000MHz	-25.93	PASS
Band4	5MHz	16QAM	19975	1RB#0	Range1:30~1000MHz	-43.76	PASS
Band4	5MHz	16QAM	19975	1RB#0	Range2:1000~20000MHz	-25.55	PASS
Band4	5MHz	16QAM	20175	1RB#0	Range1:30~1000MHz	-42.72	PASS
Band4	5MHz	16QAM	20175	1RB#0	Range2:1000~20000MHz	-25.63	PASS
Band4	5MHz	16QAM	20375	1RB#0	Range1:30~1000MHz	-43.12	PASS

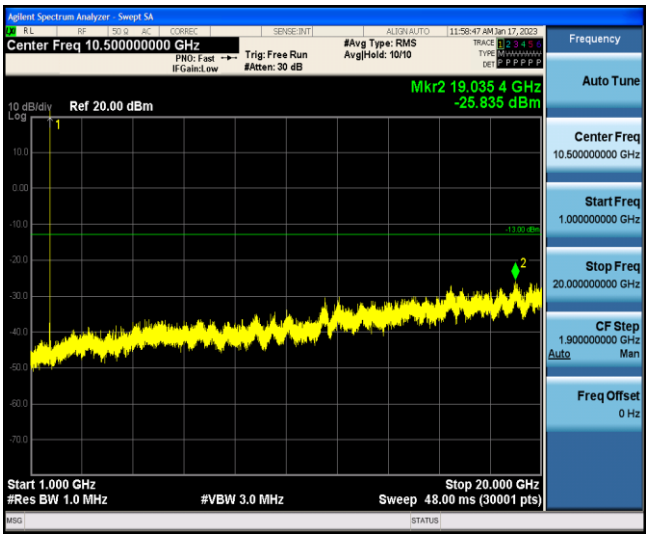
Band4	5MHz	16QAM	20375	1RB#0	Range2:1000~20000MHz	-25.99	PASS
Band4	10MHz	QPSK	20000	1RB#0	Range1:30~1000MHz	-42.31	PASS
Band4	10MHz	QPSK	20000	1RB#0	Range2:1000~20000MHz	-25.93	PASS
Band4	10MHz	QPSK	20175	1RB#0	Range1:30~1000MHz	-43.1	PASS
Band4	10MHz	QPSK	20175	1RB#0	Range2:1000~20000MHz	-26.08	PASS
Band4	10MHz	QPSK	20350	1RB#0	Range1:30~1000MHz	-43.49	PASS
Band4	10MHz	QPSK	20350	1RB#0	Range2:1000~20000MHz	-25.75	PASS
Band4	10MHz	16QAM	20000	1RB#0	Range1:30~1000MHz	-43.1	PASS
Band4	10MHz	16QAM	20000	1RB#0	Range2:1000~20000MHz	-25.96	PASS
Band4	10MHz	16QAM	20175	1RB#0	Range1:30~1000MHz	-42.79	PASS
Band4	10MHz	16QAM	20175	1RB#0	Range2:1000~20000MHz	-25.7	PASS
Band4	10MHz	16QAM	20350	1RB#0	Range1:30~1000MHz	-43.55	PASS
Band4	10MHz	16QAM	20350	1RB#0	Range2:1000~20000MHz	-25.46	PASS
Band4	15MHz	QPSK	20025	1RB#0	Range1:30~1000MHz	-43.21	PASS
Band4	15MHz	QPSK	20025	1RB#0	Range2:1000~20000MHz	-26.13	PASS
Band4	15MHz	QPSK	20175	1RB#0	Range1:30~1000MHz	-41.53	PASS
Band4	15MHz	QPSK	20175	1RB#0	Range2:1000~20000MHz	-25.48	PASS
Band4	15MHz	QPSK	20325	1RB#0	Range1:30~1000MHz	-43.32	PASS
Band4	15MHz	QPSK	20325	1RB#0	Range2:1000~20000MHz	-25.95	PASS
Band4	15MHz	16QAM	20025	1RB#0	Range1:30~1000MHz	-42.9	PASS
Band4	15MHz	16QAM	20025	1RB#0	Range2:1000~20000MHz	-25.35	PASS
Band4	15MHz	16QAM	20175	1RB#0	Range1:30~1000MHz	-43.44	PASS
Band4	15MHz	16QAM	20175	1RB#0	Range2:1000~20000MHz	-25.17	PASS
Band4	15MHz	16QAM	20325	1RB#0	Range1:30~1000MHz	-43.72	PASS
Band4	15MHz	16QAM	20325	1RB#0	Range2:1000~20000MHz	-25.87	PASS
Band4	20MHz	QPSK	20050	1RB#0	Range1:30~1000MHz	-41.99	PASS
Band4	20MHz	QPSK	20050	1RB#0	Range2:1000~20000MHz	-26.37	PASS
Band4	20MHz	QPSK	20175	1RB#0	Range1:30~1000MHz	-43.17	PASS
Band4	20MHz	QPSK	20175	1RB#0	Range2:1000~20000MHz	-25.86	PASS
Band4	20MHz	QPSK	20300	1RB#0	Range1:30~1000MHz	-42.81	PASS
Band4	20MHz	QPSK	20300	1RB#0	Range2:1000~20000MHz	-25.15	PASS
Band4	20MHz	16QAM	20050	1RB#0	Range1:30~1000MHz	-42.78	PASS
Band4	20MHz	16QAM	20050	1RB#0	Range2:1000~20000MHz	-24.91	PASS
Band4	20MHz	16QAM	20175	1RB#0	Range1:30~1000MHz	-43.3	PASS
Band4	20MHz	16QAM	20175	1RB#0	Range2:1000~20000MHz	-25.86	PASS
Band4	20MHz	16QAM	20300	1RB#0	Range1:30~1000MHz	-42.27	PASS
Band4	20MHz	16QAM	20300	1RB#0	Range2:1000~20000MHz	-25.7	PASS

Test Graphs

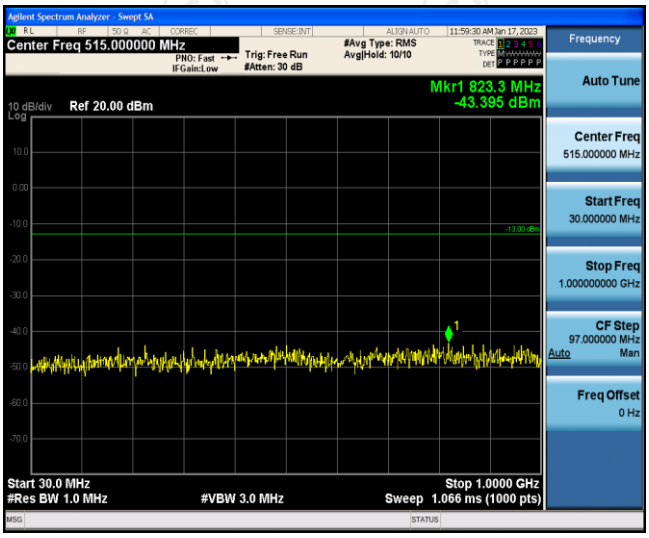
Band4-1.4MHz-QPSK-19957-1RB#0-Range1:30~1000MHz



Band4-1.4MHz-QPSK-19957-1RB#0-Range2:1000~20000MHz

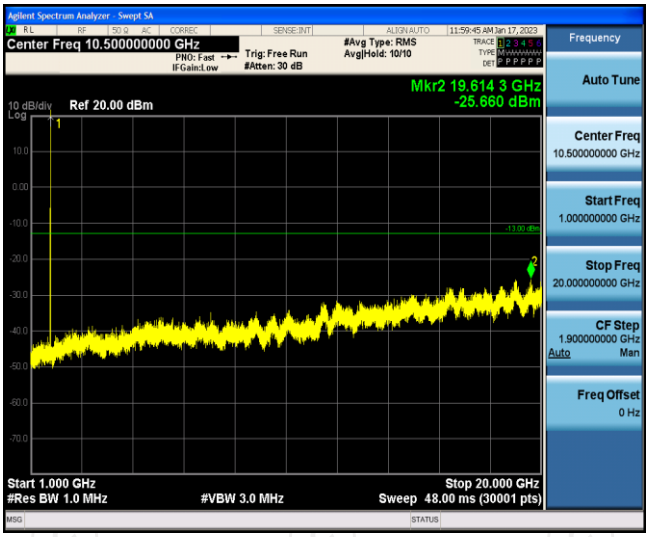


Band4-1.4MHz-QPSK-20175-1RB#0-Range1:30~1000MHz

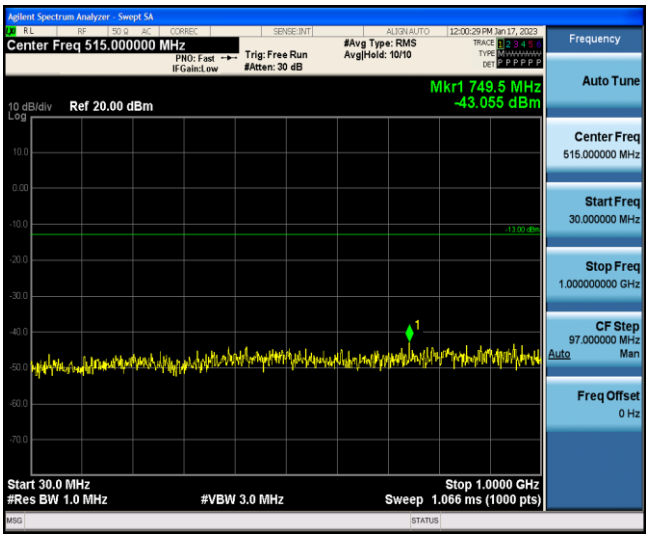


Band4-1.4MHz-QPSK-20175-1RB#0-Range2:1000~20000MHz

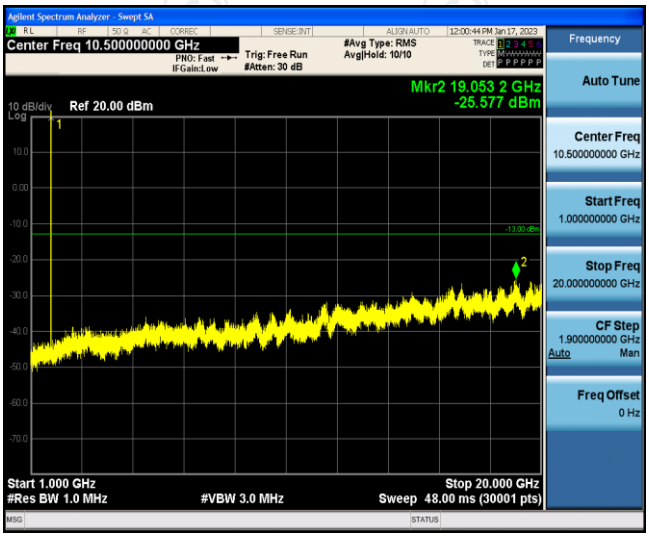
Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com



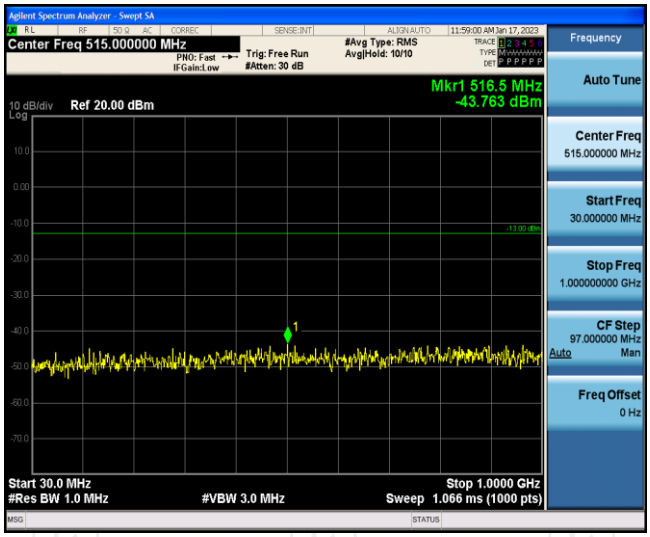
Band4-1.4MHz-QPSK-20393-1RB#0-Range1:30~1000MHz



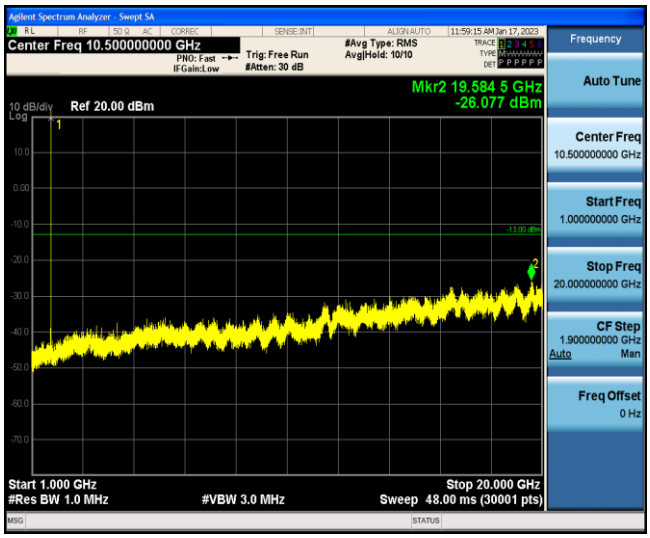
Band4-1.4MHz-QPSK-20393-1RB#0-Range2:1000~20000MHz



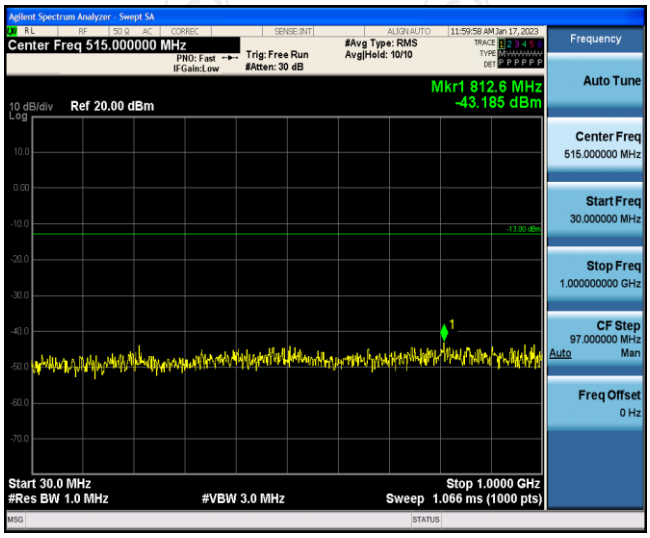
Band4-1.4MHz-16QAM-19957-1RB#0-Range1:30~1000MHz



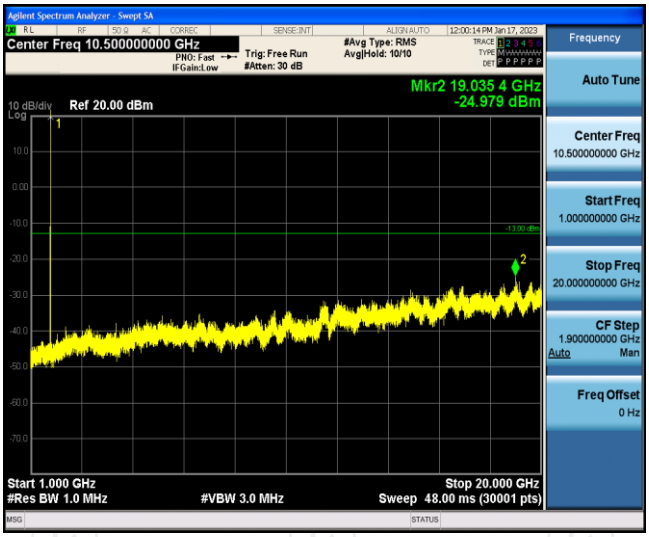
Band4-1.4MHz-16QAM-19957-1RB#0-Range2:1000~20000MHz



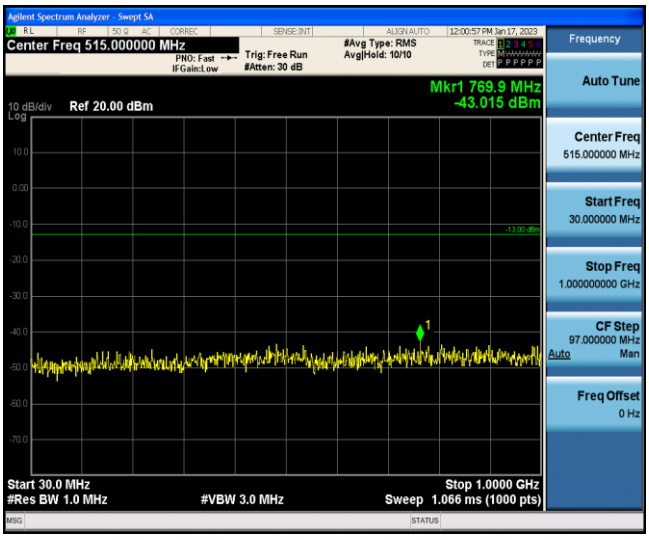
Band4-1.4MHz-16QAM-20175-1RB#0-Range1:30~1000MHz



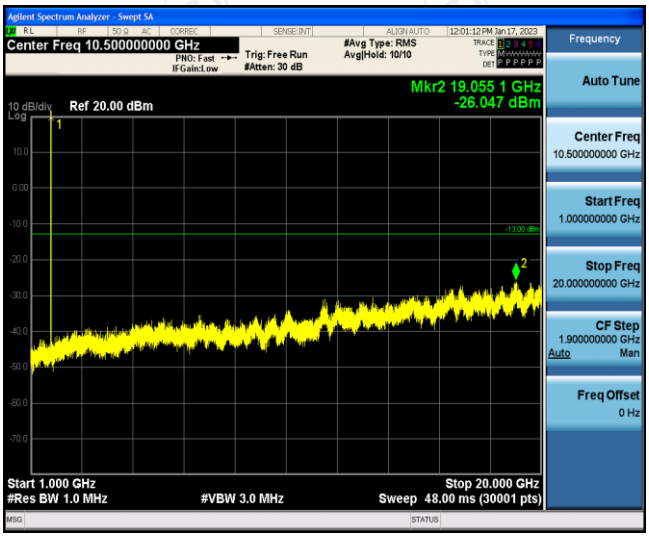
Band4-1.4MHz-16QAM-20175-1RB#0-Range2:1000~20000MHz



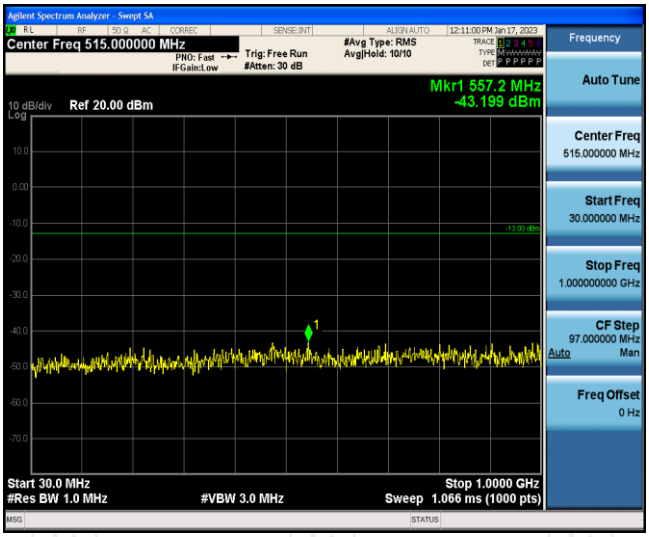
Band4-1.4MHz-16QAM-20393-1RB#0-Range1:30~1000MHz



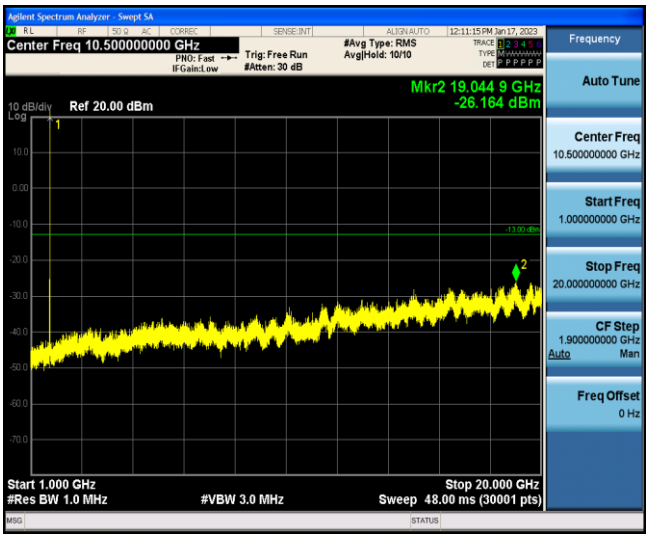
Band4-1.4MHz-16QAM-20393-1RB#0-Range2:1000~20000MHz



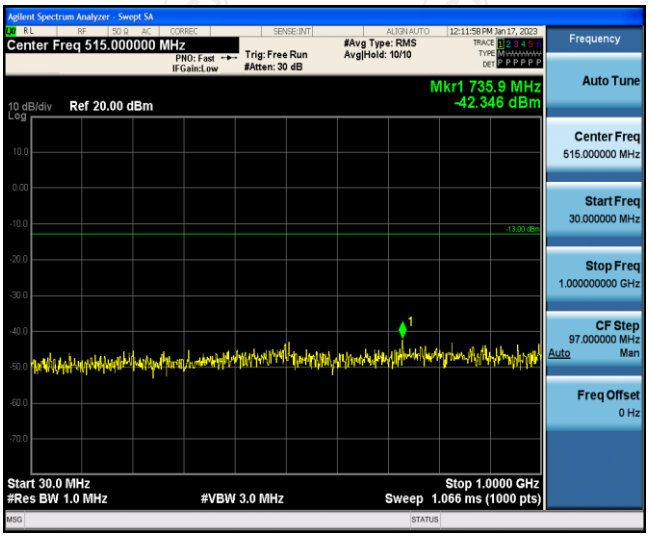
Band4-3MHz-QPSK-19965-1RB#0-Range1:30~1000MHz



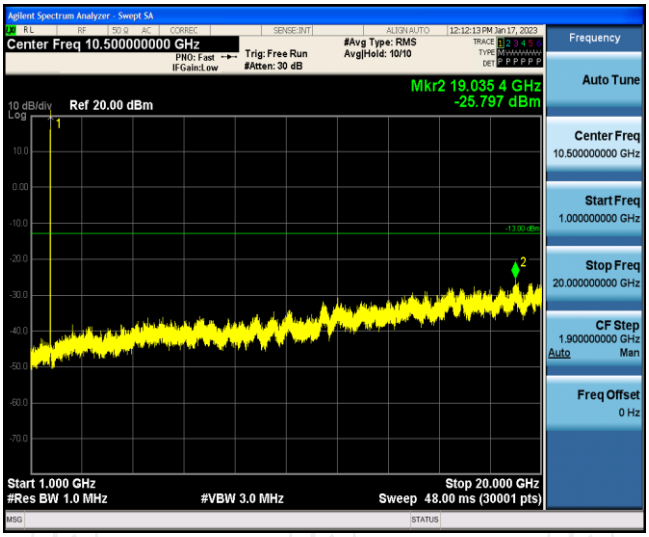
Band4-3MHz-QPSK-19965-1RB#0-Range2:1000~20000MHz



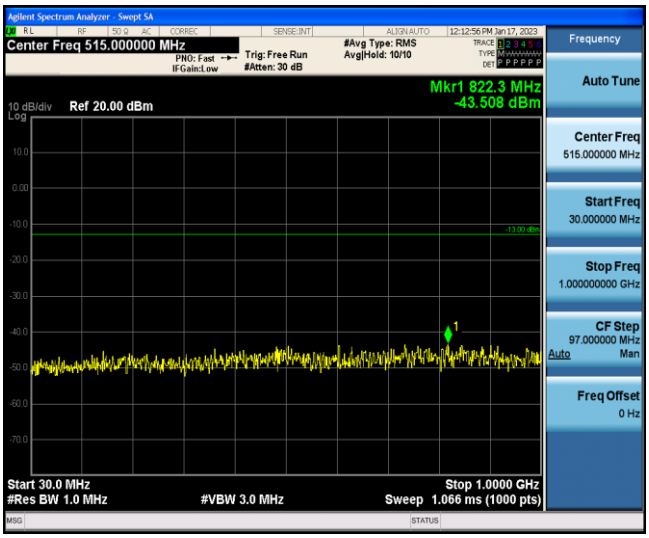
Band4-3MHz-QPSK-20175-1RB#0-Range1:30~1000MHz



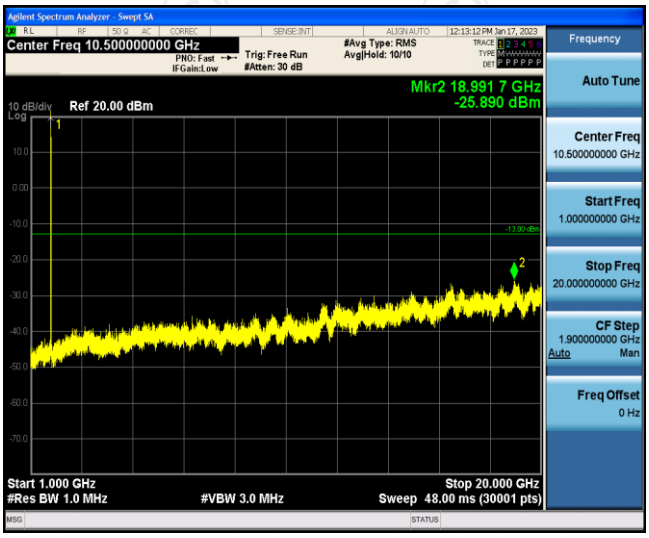
Band4-3MHz-QPSK-20175-1RB#0-Range2:1000~20000MHz



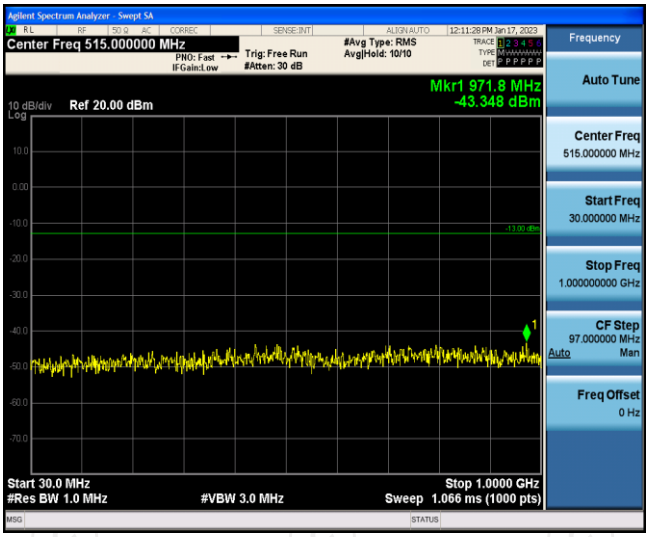
Band4-3MHz-QPSK-20385-1RB#0-Range1:30~1000MHz



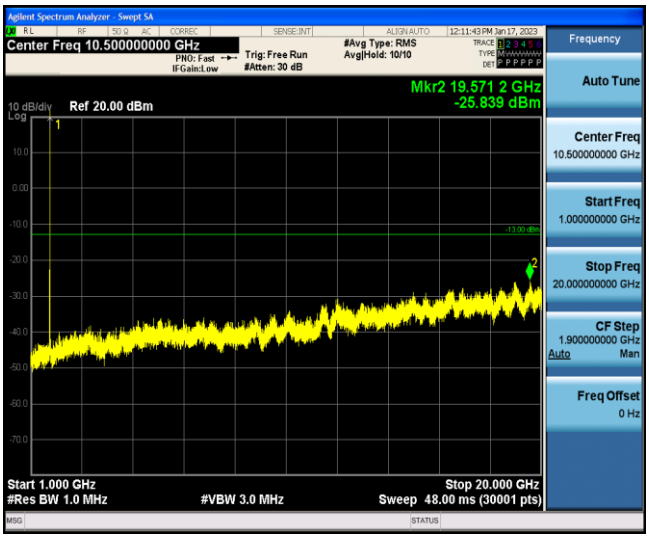
Band4-3MHz-QPSK-20385-1RB#0-Range2:1000~20000MHz



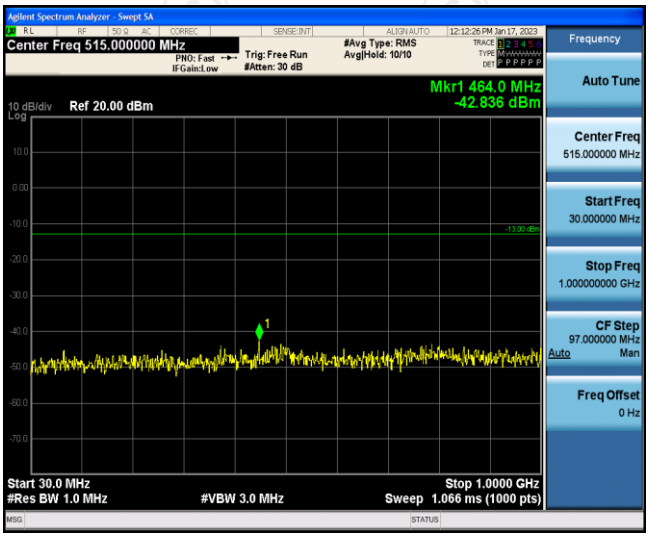
Band4-3MHz-16QAM-19965-1RB#0-Range1:30~1000MHz



Band4-3MHz-16QAM-19965-1RB#0-Range2:1000~20000MHz

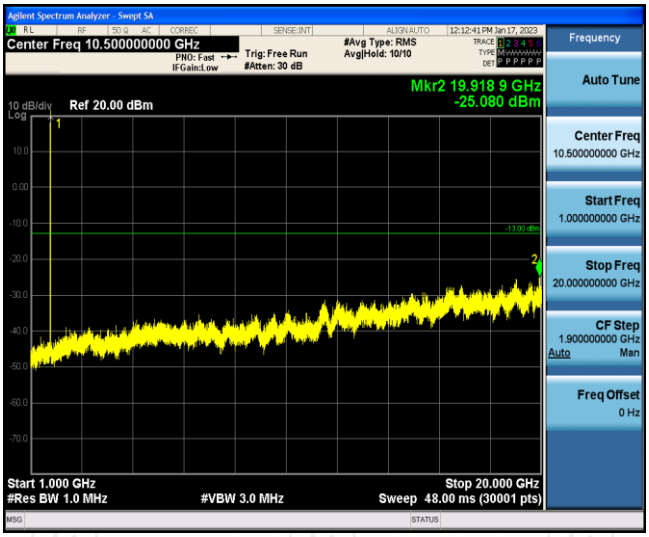


Band4-3MHz-16QAM-20175-1RB#0-Range1:30~1000MHz

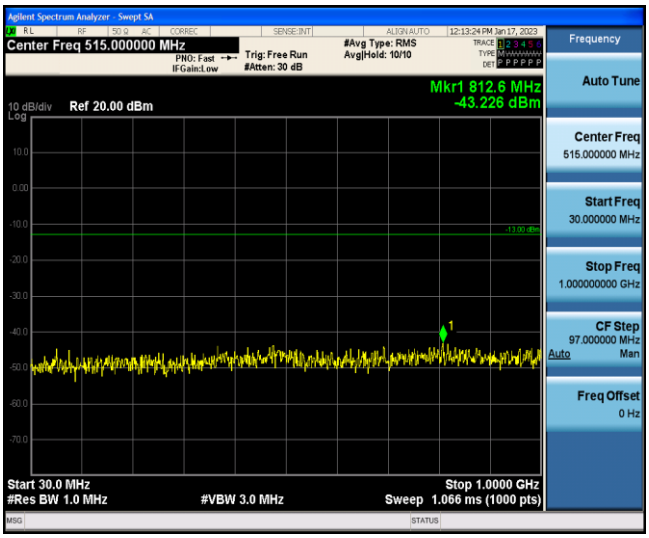


Band4-3MHz-16QAM-20175-1RB#0-Range2:1000~20000MHz

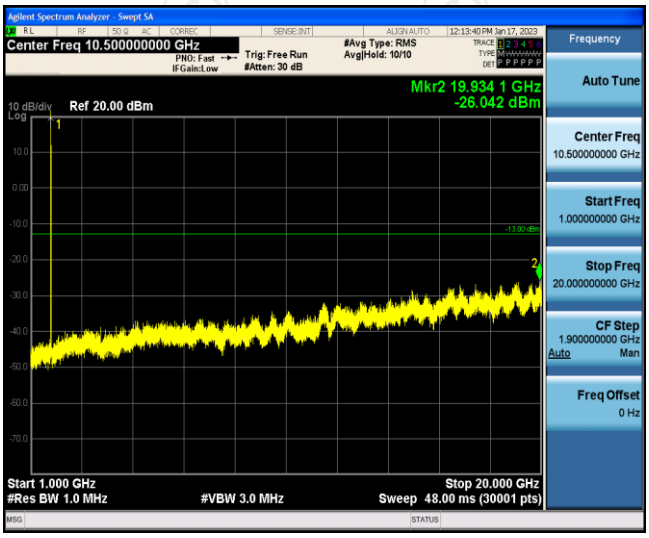
Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com



Band4-3MHz-16QAM-20385-1RB#0-Range1:30~1000MHz



Band4-3MHz-16QAM-20385-1RB#0-Range2:1000~20000MHz



Band4-5MHz-QPSK-19975-1RB#0-Range1:30~1000MHz