Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corrections: Off
Freq Ref: Int (S)
#Atten: 40 dB
PNO: Best Wide
Gate: Off
IF Gain: Low
Sig Track: Off
#Avg Type: Power (RMS)
Avg|Hold: 30/30
Trig: Free Run
1 Spectrum
Scale/Div 10 dB
Ref Lvl Offset 1.67 dB
Ref Level 24.67 dBm
Mkr1 849.017 MHz
-40.25 dBm
Center 849.000 MHz
#Res BW 200 kHz
#Video BW 620 kHz*
Span 2.000 MHz
#Sweep 100 ms (601 pts)
Oct 15, 2022
7:27:34 PM
Frequency
Settings
Center Frequency
849.000000 MHz
Span
2.00000000 MHz
Swept Span
Zero Span
Full Span
Start Freq
848.000000 MHz
Stop Freq
850.000000 MHz
AUTO TUNE
CF Step
200.000 kHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
Signal Track
(Span Zoom)

Appendix E: Conducted Spurious Emission

Test Result

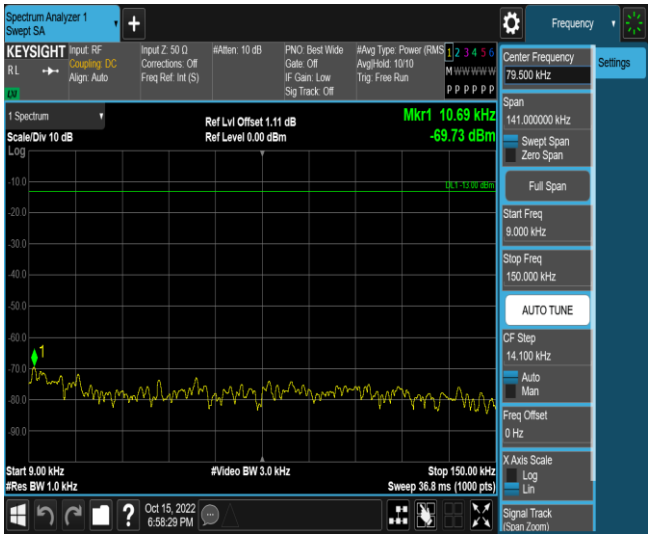
Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	Range1:0.009~0.15MHz	PASS
Band5	1.4MHz	QPSK	20407	1RB#0	Range2:0.15~30MHz	PASS
Band5	1.4MHz	QPSK	20407	1RB#0	Range3:30~1000MHz	PASS
Band5	1.4MHz	QPSK	20407	1RB#0	Range4:1000~10000MHz	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	Range1:0.009~0.15MHz	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	Range2:0.15~30MHz	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	Range3:30~1000MHz	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	Range4:1000~10000MHz	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	Range1:0.009~0.15MHz	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	Range2:0.15~30MHz	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	Range3:30~1000MHz	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	Range4:1000~10000MHz	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	Range1:0.009~0.15MHz	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	Range2:0.15~30MHz	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	Range3:30~1000MHz	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	Range4:1000~10000MHz	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	Range1:0.009~0.15MHz	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	Range2:0.15~30MHz	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	Range3:30~1000MHz	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	Range4:1000~10000MHz	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	Range1:0.009~0.15MHz	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	Range2:0.15~30MHz	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	Range3:30~1000MHz	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	Range4:1000~10000MHz	PASS
Band5	3MHz	QPSK	20415	1RB#0	Range1:0.009~0.15MHz	PASS
Band5	3MHz	QPSK	20415	1RB#0	Range2:0.15~30MHz	PASS
Band5	3MHz	QPSK	20415	1RB#0	Range3:30~1000MHz	PASS
Band5	3MHz	QPSK	20415	1RB#0	Range4:1000~10000MHz	PASS
Band5	3MHz	QPSK	20525	1RB#0	Range1:0.009~0.15MHz	PASS
Band5	3MHz	QPSK	20525	1RB#0	Range2:0.15~30MHz	PASS
Band5	3MHz	QPSK	20525	1RB#0	Range3:30~1000MHz	PASS
Band5	3MHz	QPSK	20525	1RB#0	Range4:1000~10000MHz	PASS
Band5	3MHz	QPSK	20635	1RB#0	Range1:0.009~0.15MHz	PASS
Band5	3MHz	QPSK	20635	1RB#0	Range2:0.15~30MHz	PASS
Band5	3MHz	QPSK	20635	1RB#0	Range3:30~1000MHz	PASS

Band5	3MHz	QPSK	20635	1RB#0	Range4:1000~10000MHz	PASS
Band5	3MHz	16QAM	20415	1RB#0	Range1:0.009~0.15MHz	PASS
Band5	3MHz	16QAM	20415	1RB#0	Range2:0.15~30MHz	PASS
Band5	3MHz	16QAM	20415	1RB#0	Range3:30~1000MHz	PASS
Band5	3MHz	16QAM	20415	1RB#0	Range4:1000~10000MHz	PASS
Band5	3MHz	16QAM	20525	1RB#0	Range1:0.009~0.15MHz	PASS
Band5	3MHz	16QAM	20525	1RB#0	Range2:0.15~30MHz	PASS
Band5	3MHz	16QAM	20525	1RB#0	Range3:30~1000MHz	PASS
Band5	3MHz	16QAM	20525	1RB#0	Range4:1000~10000MHz	PASS
Band5	3MHz	16QAM	20635	1RB#0	Range1:0.009~0.15MHz	PASS
Band5	3MHz	16QAM	20635	1RB#0	Range2:0.15~30MHz	PASS
Band5	3MHz	16QAM	20635	1RB#0	Range3:30~1000MHz	PASS
Band5	3MHz	16QAM	20635	1RB#0	Range4:1000~10000MHz	PASS
Band5	5MHz	QPSK	20425	1RB#0	Range1:0.009~0.15MHz	PASS
Band5	5MHz	QPSK	20425	1RB#0	Range2:0.15~30MHz	PASS
Band5	5MHz	QPSK	20425	1RB#0	Range3:30~1000MHz	PASS
Band5	5MHz	QPSK	20425	1RB#0	Range4:1000~10000MHz	PASS
Band5	5MHz	QPSK	20525	1RB#0	Range1:0.009~0.15MHz	PASS
Band5	5MHz	QPSK	20525	1RB#0	Range2:0.15~30MHz	PASS
Band5	5MHz	QPSK	20525	1RB#0	Range3:30~1000MHz	PASS
Band5	5MHz	QPSK	20525	1RB#0	Range4:1000~10000MHz	PASS
Band5	5MHz	QPSK	20625	1RB#0	Range1:0.009~0.15MHz	PASS
Band5	5MHz	QPSK	20625	1RB#0	Range2:0.15~30MHz	PASS
Band5	5MHz	QPSK	20625	1RB#0	Range3:30~1000MHz	PASS
Band5	5MHz	QPSK	20625	1RB#0	Range4:1000~10000MHz	PASS
Band5	5MHz	16QAM	20425	1RB#0	Range1:0.009~0.15MHz	PASS
Band5	5MHz	16QAM	20425	1RB#0	Range2:0.15~30MHz	PASS
Band5	5MHz	16QAM	20425	1RB#0	Range3:30~1000MHz	PASS
Band5	5MHz	16QAM	20425	1RB#0	Range4:1000~10000MHz	PASS
Band5	5MHz	16QAM	20525	1RB#0	Range1:0.009~0.15MHz	PASS
Band5	5MHz	16QAM	20525	1RB#0	Range2:0.15~30MHz	PASS
Band5	5MHz	16QAM	20525	1RB#0	Range3:30~1000MHz	PASS
Band5	5MHz	16QAM	20525	1RB#0	Range4:1000~10000MHz	PASS
Band5	5MHz	16QAM	20625	1RB#0	Range1:0.009~0.15MHz	PASS
Band5	5MHz	16QAM	20625	1RB#0	Range2:0.15~30MHz	PASS
Band5	5MHz	16QAM	20625	1RB#0	Range3:30~1000MHz	PASS
Band5	5MHz	16QAM	20625	1RB#0	Range4:1000~10000MHz	PASS
Band5	10MHz	QPSK	20450	1RB#0	Range1:0.009~0.15MHz	PASS
Band5	10MHz	QPSK	20450	1RB#0	Range2:0.15~30MHz	PASS
Band5	10MHz	QPSK	20450	1RB#0	Range3:30~1000MHz	PASS
Band5	10MHz	QPSK	20450	1RB#0	Range4:1000~10000MHz	PASS
Band5	10MHz	QPSK	20525	1RB#0	Range1:0.009~0.15MHz	PASS

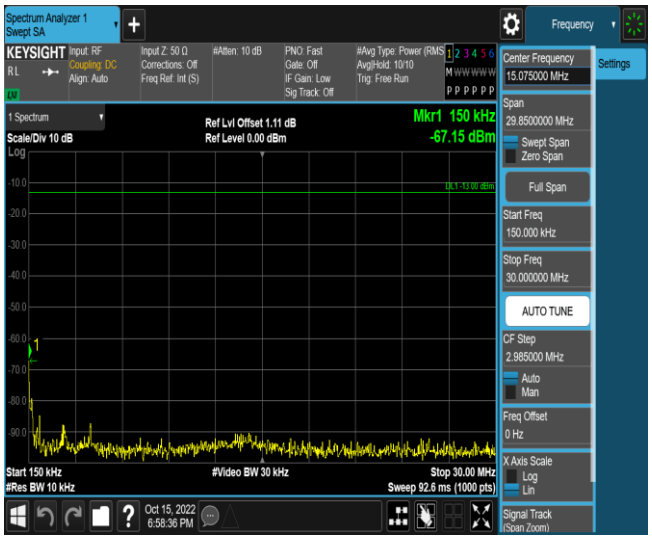
Band5	10MHz	QPSK	20525	1RB#0	Range2:0.15~30MHz	PASS
Band5	10MHz	QPSK	20525	1RB#0	Range3:30~1000MHz	PASS
Band5	10MHz	QPSK	20525	1RB#0	Range4:1000~10000MHz	PASS
Band5	10MHz	QPSK	20600	1RB#0	Range1:0.009~0.15MHz	PASS
Band5	10MHz	QPSK	20600	1RB#0	Range2:0.15~30MHz	PASS
Band5	10MHz	QPSK	20600	1RB#0	Range3:30~1000MHz	PASS
Band5	10MHz	QPSK	20600	1RB#0	Range4:1000~10000MHz	PASS
Band5	10MHz	16QAM	20450	1RB#0	Range1:0.009~0.15MHz	PASS
Band5	10MHz	16QAM	20450	1RB#0	Range2:0.15~30MHz	PASS
Band5	10MHz	16QAM	20450	1RB#0	Range3:30~1000MHz	PASS
Band5	10MHz	16QAM	20450	1RB#0	Range4:1000~10000MHz	PASS
Band5	10MHz	16QAM	20525	1RB#0	Range1:0.009~0.15MHz	PASS
Band5	10MHz	16QAM	20525	1RB#0	Range2:0.15~30MHz	PASS
Band5	10MHz	16QAM	20525	1RB#0	Range3:30~1000MHz	PASS
Band5	10MHz	16QAM	20525	1RB#0	Range4:1000~10000MHz	PASS
Band5	10MHz	16QAM	20600	1RB#0	Range1:0.009~0.15MHz	PASS
Band5	10MHz	16QAM	20600	1RB#0	Range2:0.15~30MHz	PASS
Band5	10MHz	16QAM	20600	1RB#0	Range3:30~1000MHz	PASS
Band5	10MHz	16QAM	20600	1RB#0	Range4:1000~10000MHz	PASS

Test Graphs

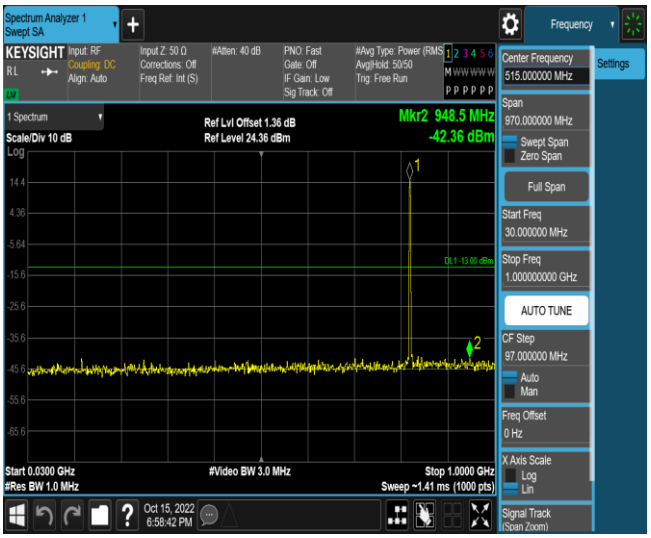
Band5-1.4MHz-QPSK-20407-1RB#0-Range1:0.009~0.15MHz



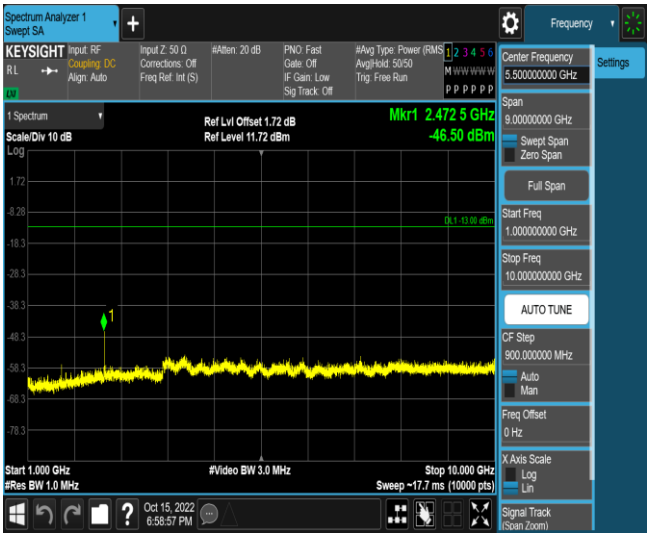
Band5-1.4MHz-QPSK-20407-1RB#0-Range2:0.15~30MHz



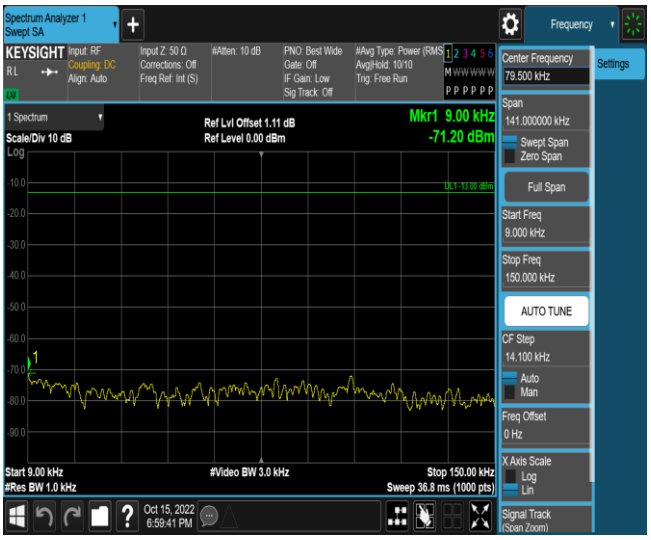
Band5-1.4MHz-QPSK-20407-1RB#0-Range3:30~1000MHz



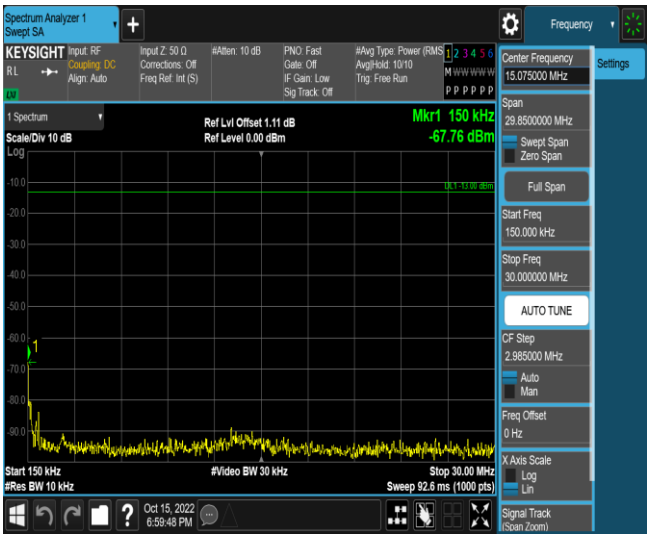
Band5-1.4MHz-QPSK-20407-1RB#0-Range4:1000~10000MHz



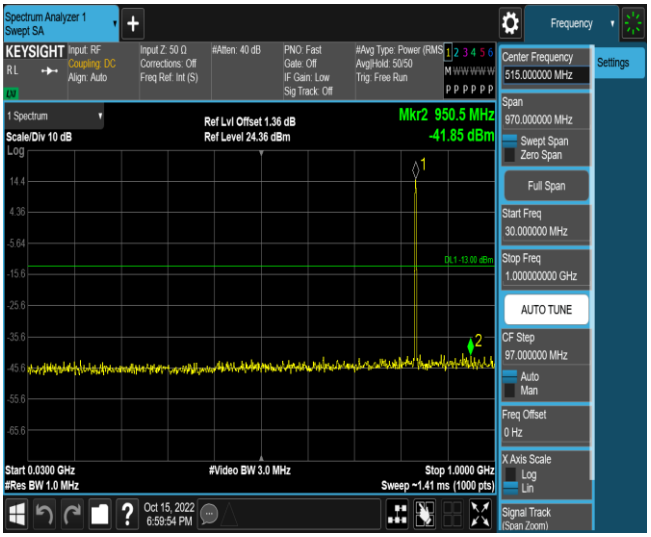
Band5-1.4MHz-QPSK-20525-1RB#0-Range1:0.009~0.15MHz



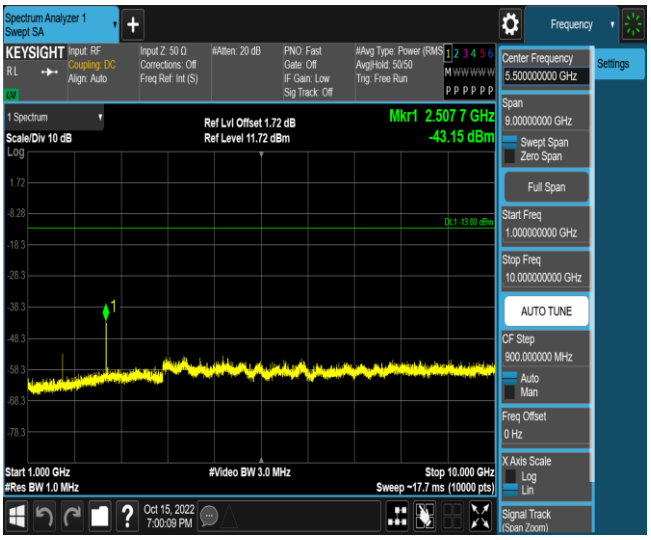
Band5-1.4MHz-QPSK-20525-1RB#0-Range2:0.15~30MHz



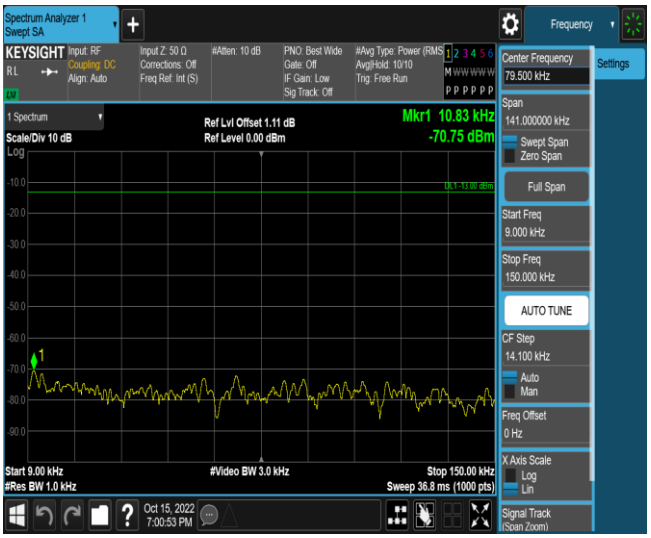
Band5-1.4MHz-QPSK-20525-1RB#0-Range3:30~1000MHz



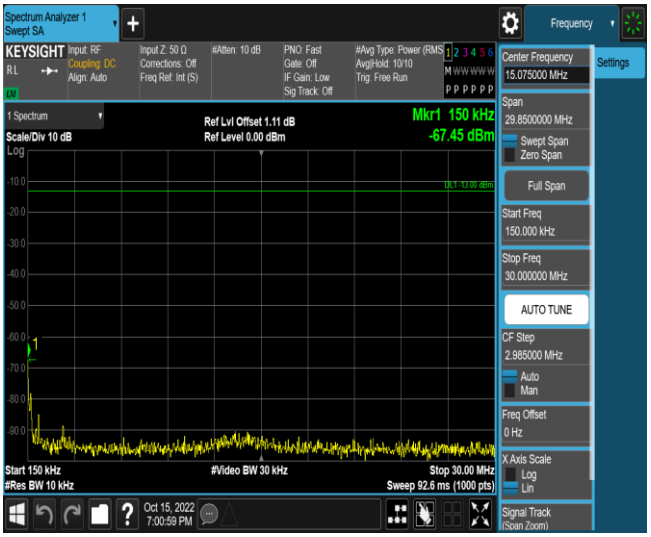
Band5-1.4MHz-QPSK-20525-1RB#0-Range4:1000~10000MHz



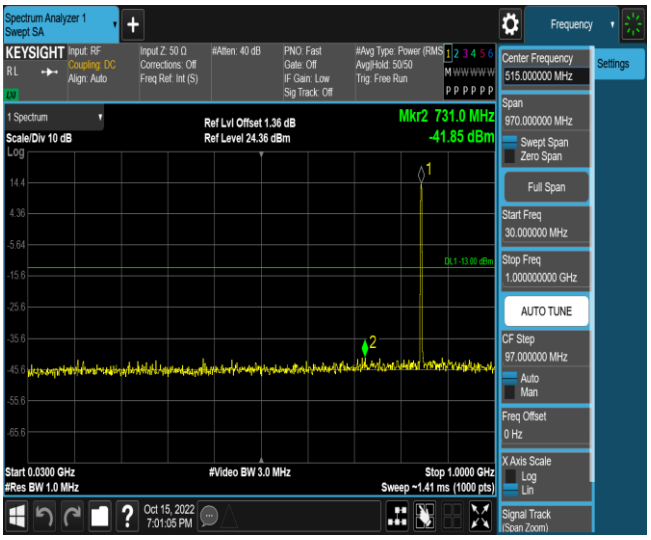
Band5-1.4MHz-QPSK-20643-1RB#0-Range1:0.009~0.15MHz



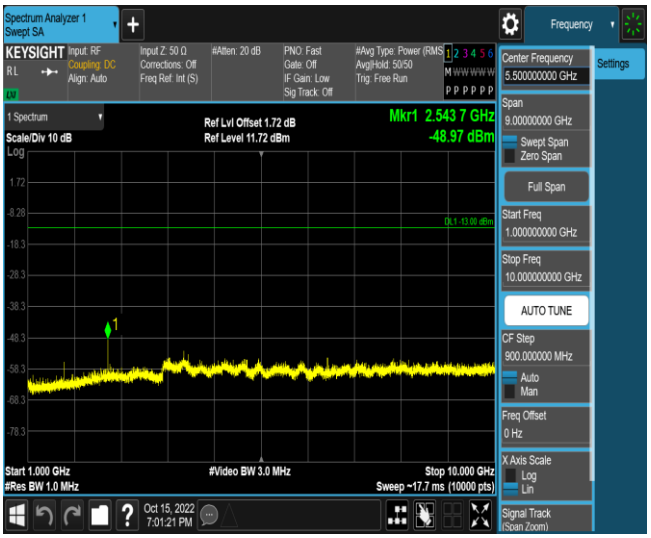
Band5-1.4MHz-QPSK-20643-1RB#0-Range2:0.15~30MHz



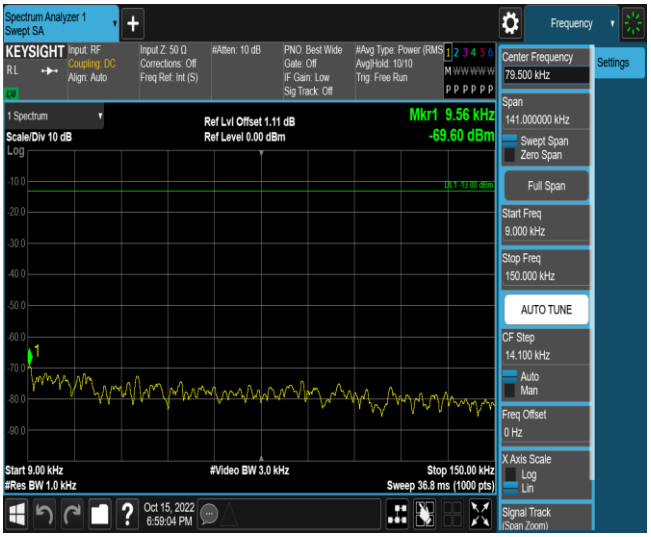
Band5-1.4MHz-QPSK-20643-1RB#0-Range3:30~1000MHz



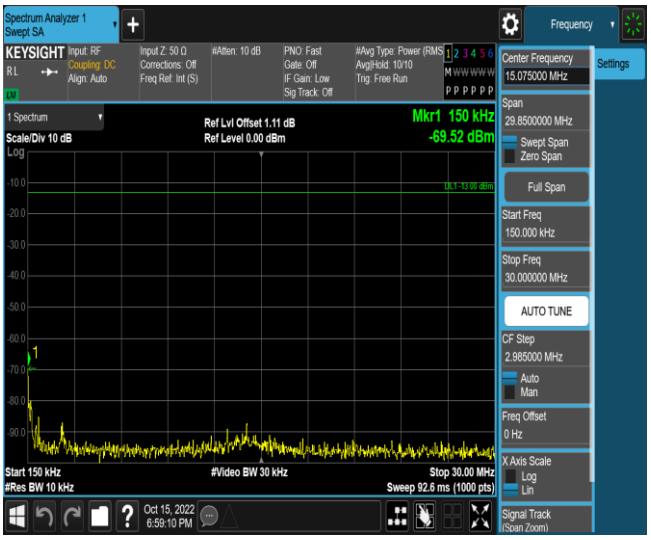
Band5-1.4MHz-QPSK-20643-1RB#0-Range4:1000~10000MHz



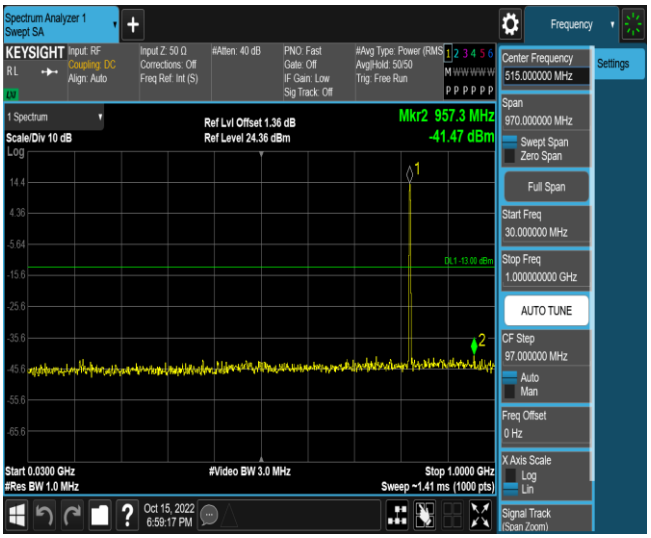
Band5-1.4MHz-16QAM-20407-1RB#0-Range1:0.009~0.15MHz



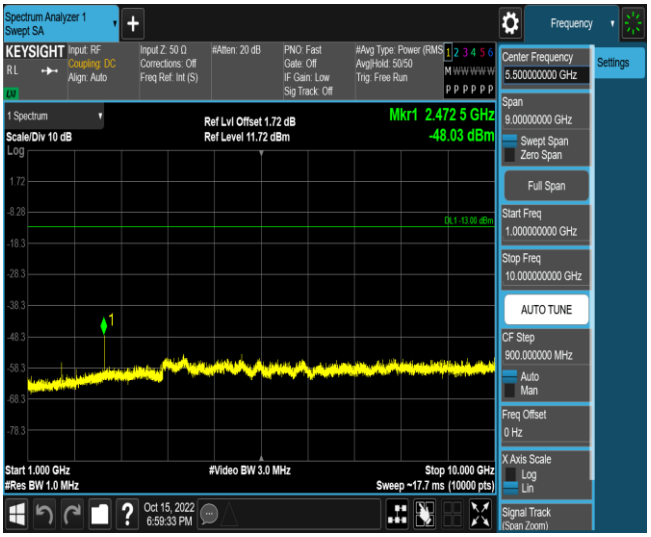
Band5-1.4MHz-16QAM-20407-1RB#0-Range2:0.15~30MHz



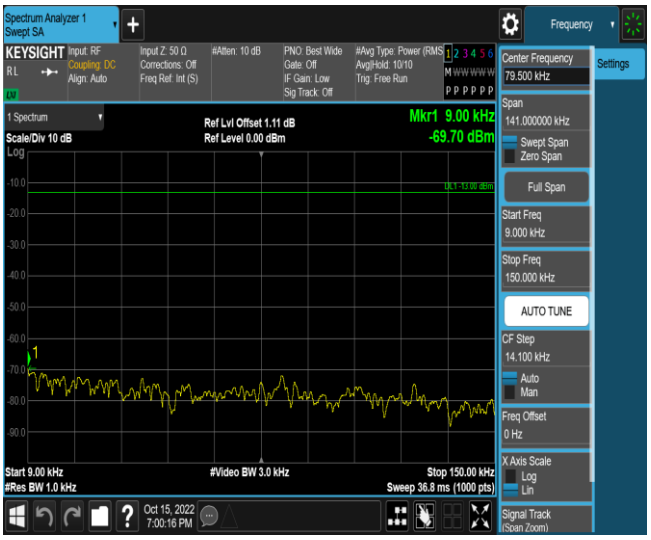
Band5-1.4MHz-16QAM-20407-1RB#0-Range3:30~1000MHz



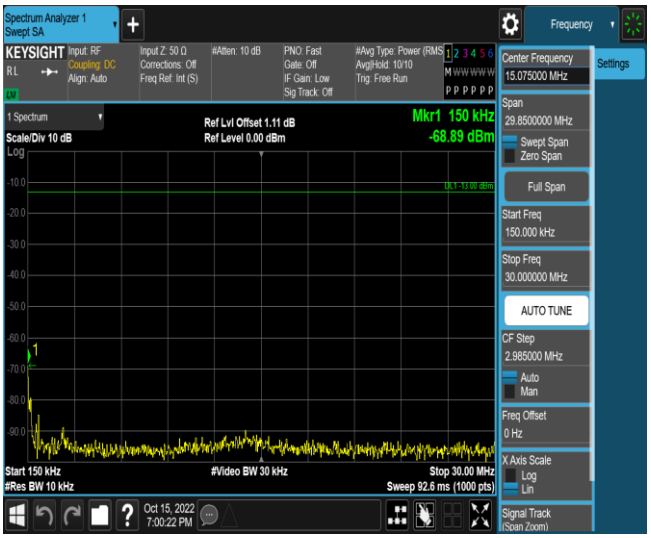
Band5-1.4MHz-16QAM-20407-1RB#0-Range4:1000~10000MHz



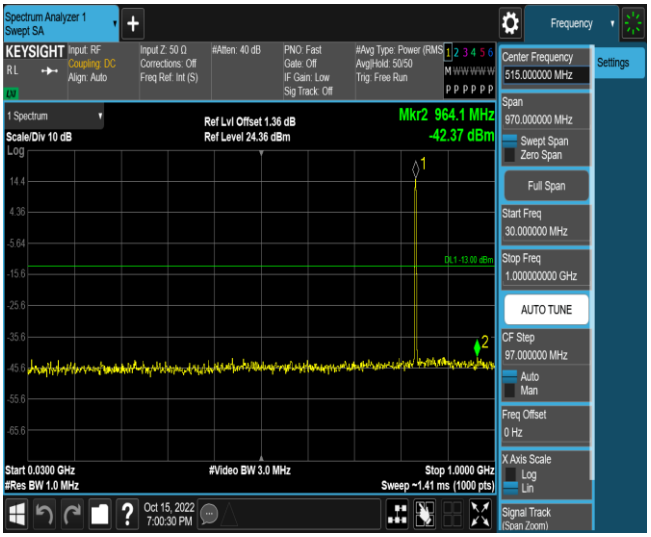
Band5-1.4MHz-16QAM-20525-1RB#0-Range1:0.009~0.15MHz



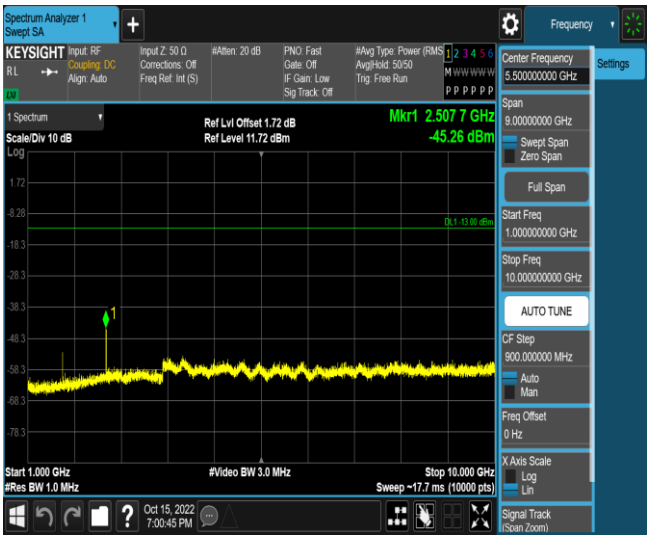
Band5-1.4MHz-16QAM-20525-1RB#0-Range2:0.15~30MHz



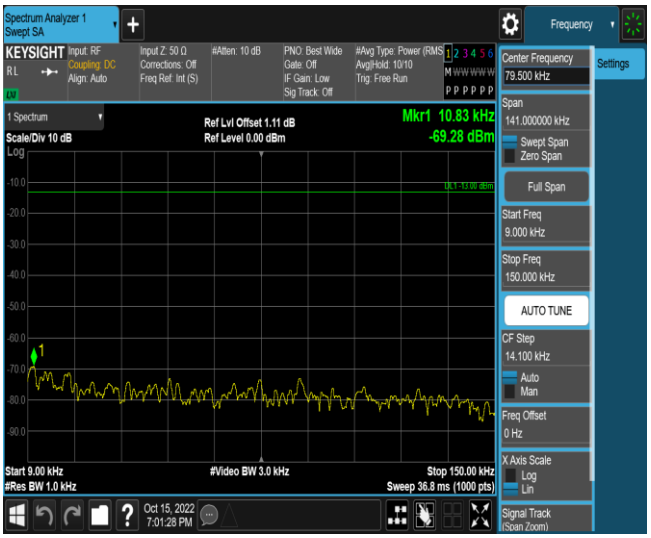
Band5-1.4MHz-16QAM-20525-1RB#0-Range3:30~1000MHz



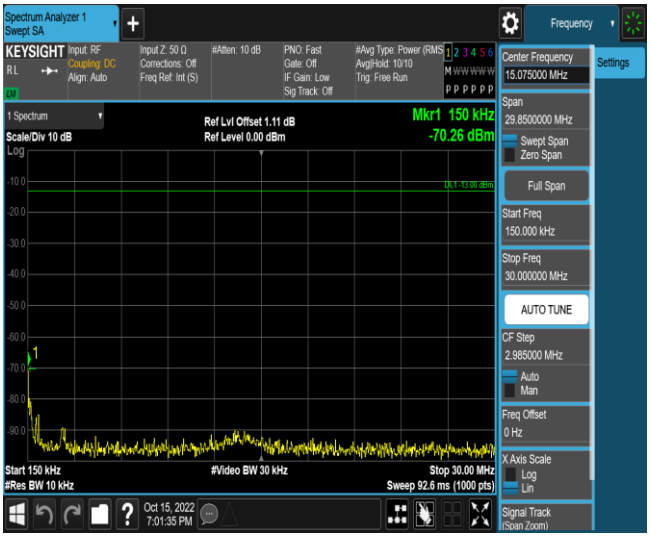
Band5-1.4MHz-16QAM-20525-1RB#0-Range4:1000~10000MHz



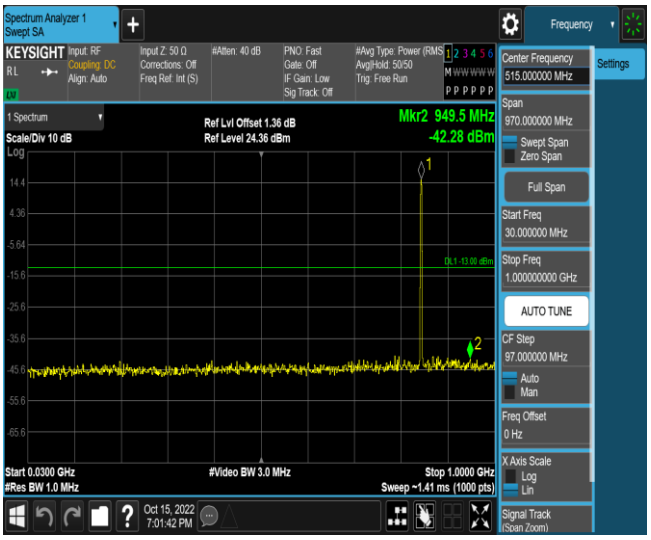
Band5-1.4MHz-16QAM-20643-1RB#0-Range1:0.009~0.15MHz



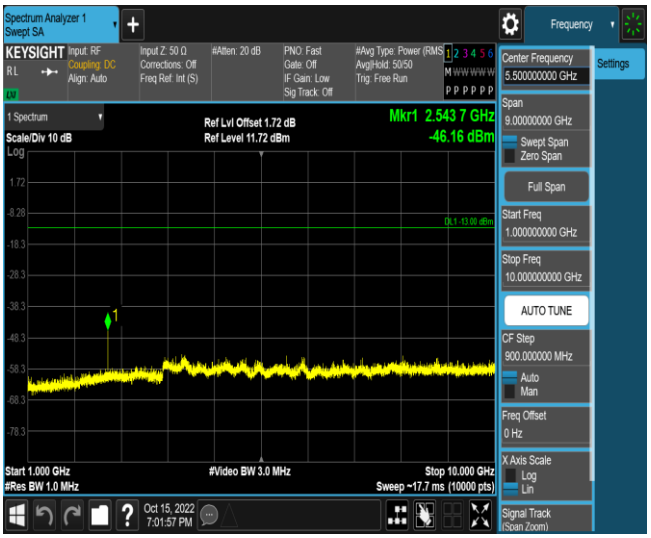
Band5-1.4MHz-16QAM-20643-1RB#0-Range2:0.15~30MHz



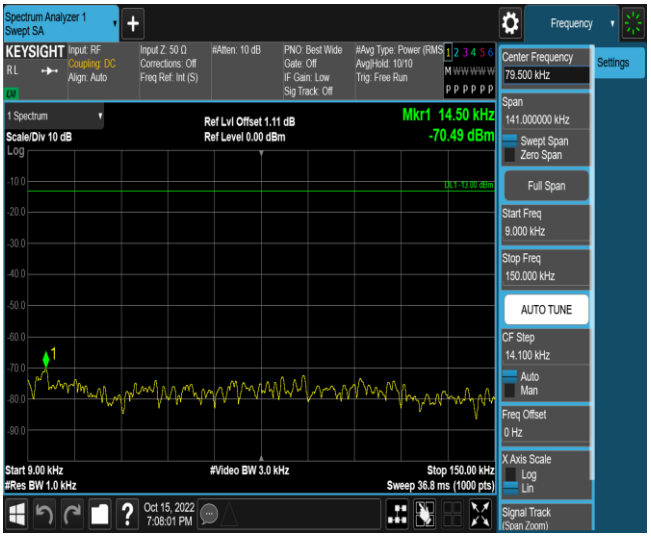
Band5-1.4MHz-16QAM-20643-1RB#0-Range3:30~1000MHz



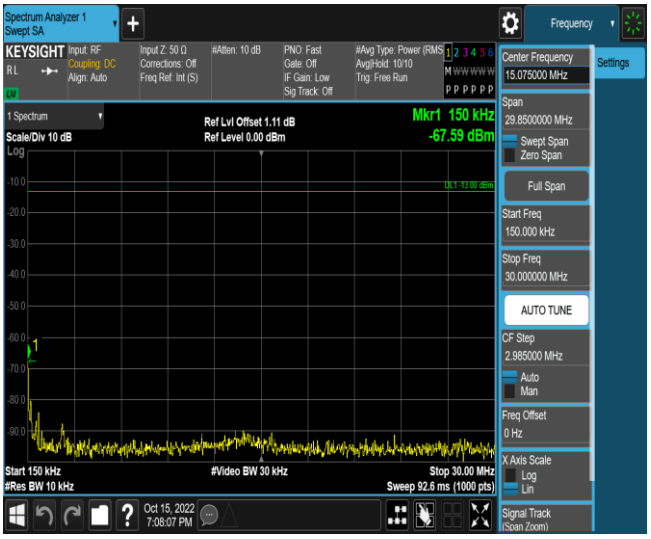
Band5-1.4MHz-16QAM-20643-1RB#0-Range4:1000~10000MHz



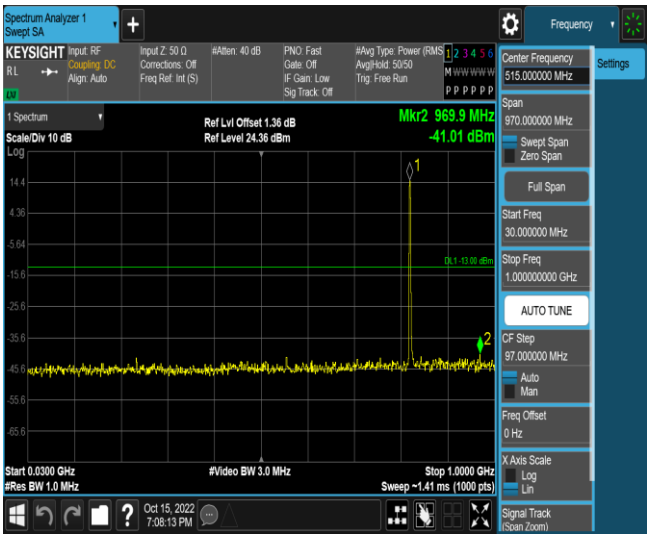
Band5-3MHz-QPSK-20415-1RB#0-Range1:0.009~0.15MHz



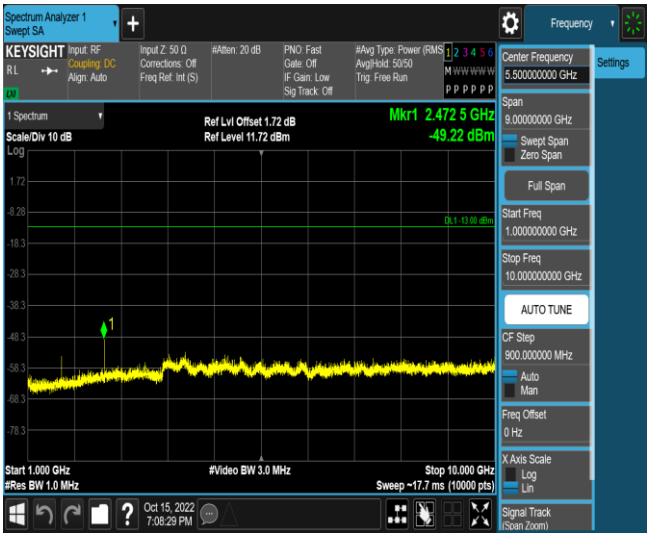
Band5-3MHz-QPSK-20415-1RB#0-Range2:0.15~30MHz



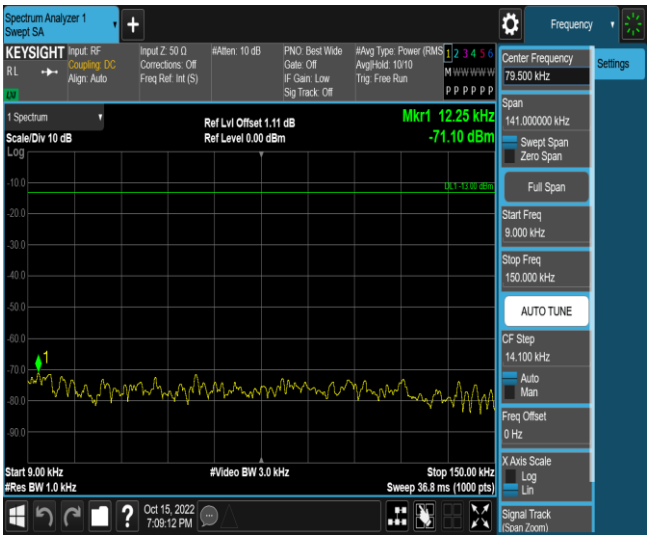
Band5-3MHz-QPSK-20415-1RB#0-Range3:30~1000MHz



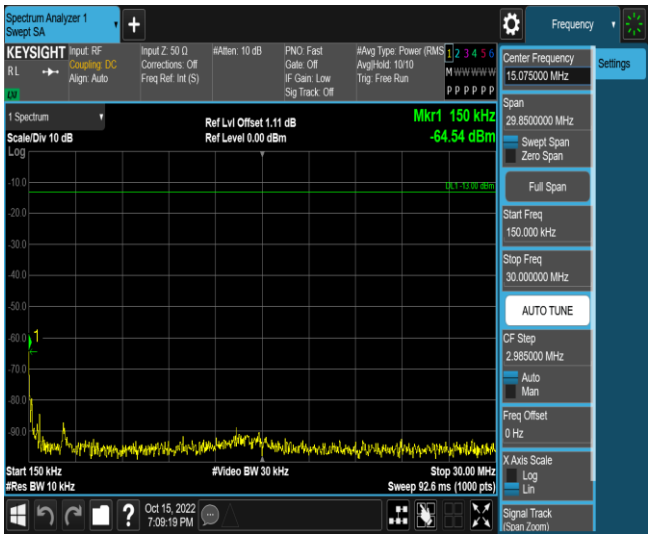
Band5-3MHz-QPSK-20415-1RB#0-Range4:1000~10000MHz



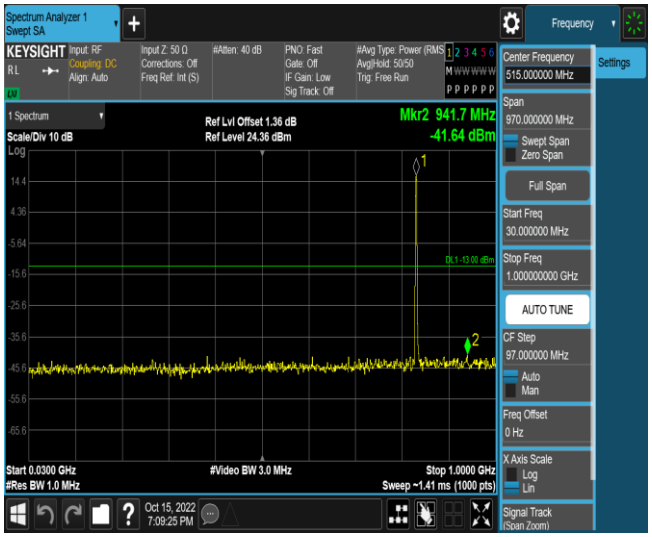
Band5-3MHz-QPSK-20525-1RB#0-Range1:0.009~0.15MHz



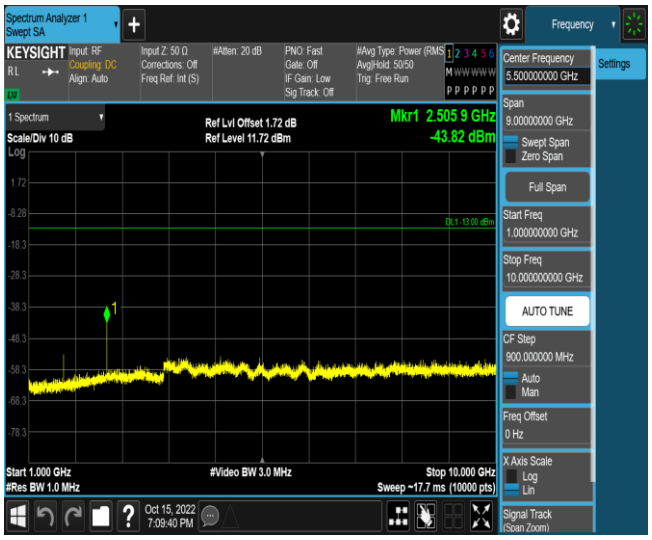
Band5-3MHz-QPSK-20525-1RB#0-Range2:0.15~30MHz



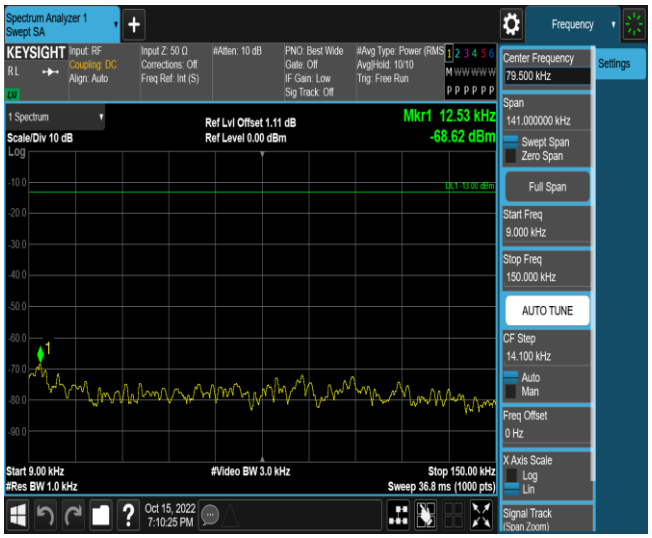
Band5-3MHz-QPSK-20525-1RB#0-Range3:30~1000MHz



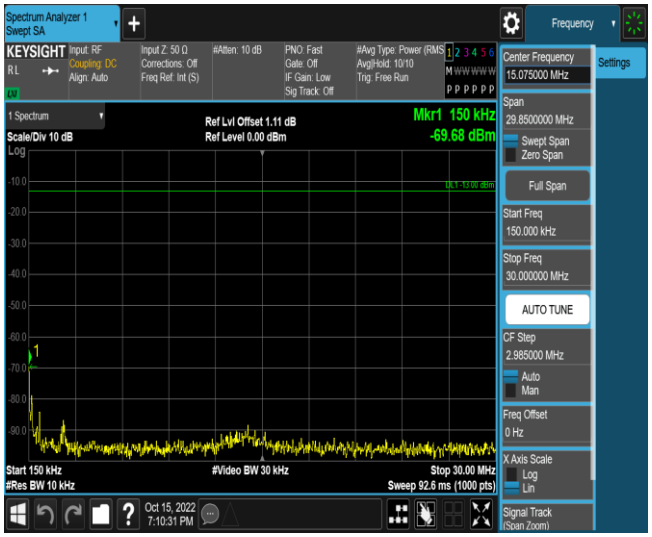
Band5-3MHz-QPSK-20525-1RB#0-Range4:1000~10000MHz



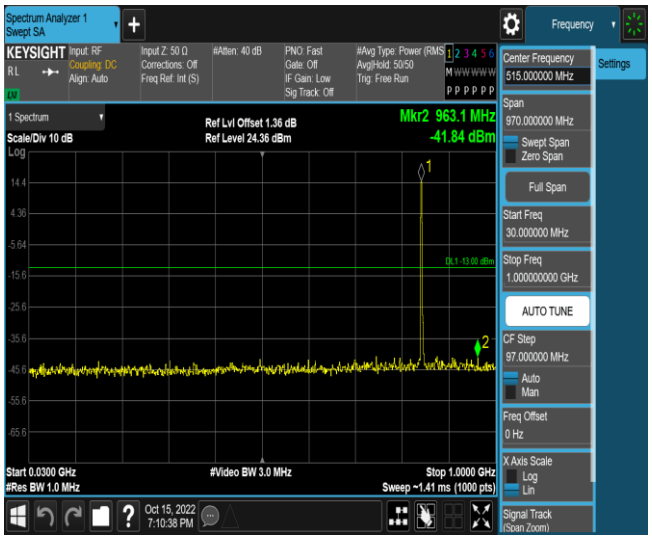
Band5-3MHz-QPSK-20635-1RB#0-Range1:0.009~0.15MHz



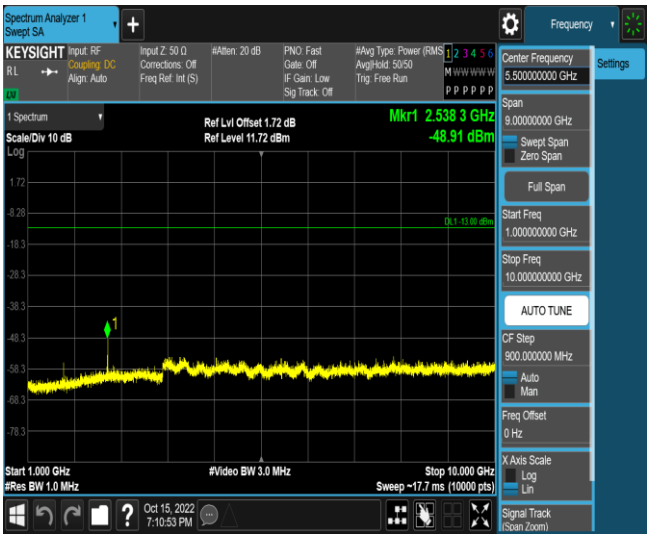
Band5-3MHz-QPSK-20635-1RB#0-Range2:0.15~30MHz



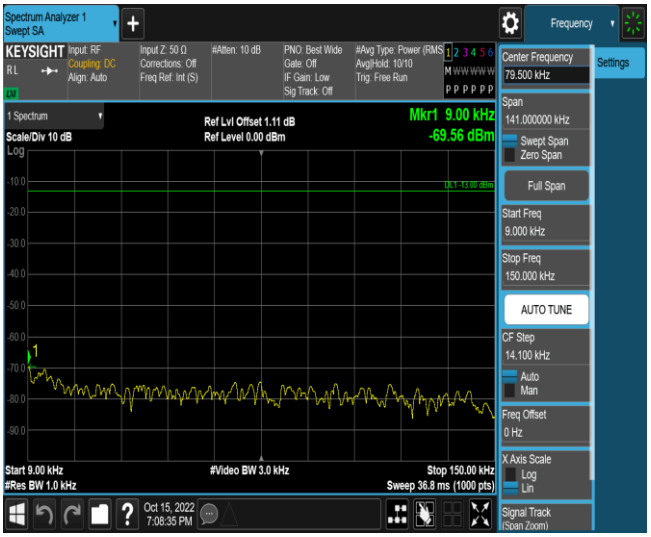
Band5-3MHz-QPSK-20635-1RB#0-Range3:30~1000MHz



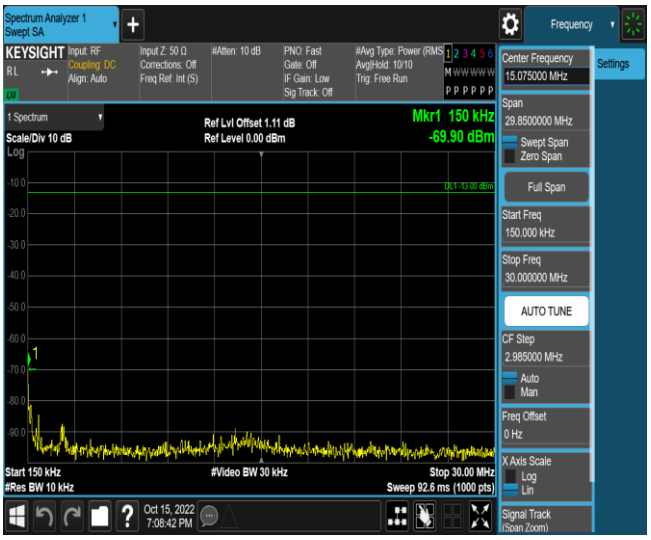
Band5-3MHz-QPSK-20635-1RB#0-Range4:1000~10000MHz



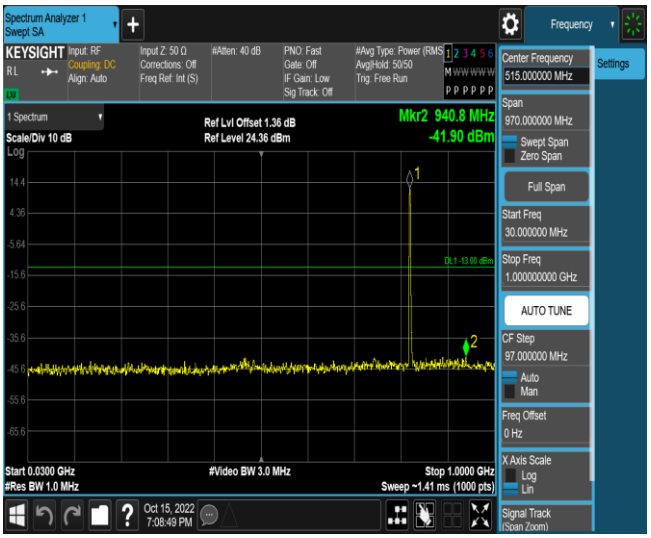
Band5-3MHz-16QAM-20415-1RB#0-Range1:0.009~0.15MHz



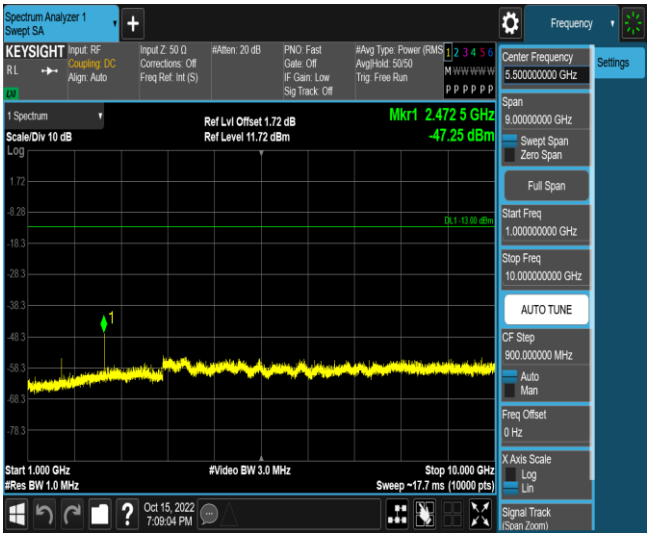
Band5-3MHz-16QAM-20415-1RB#0-Range2:0.15~30MHz



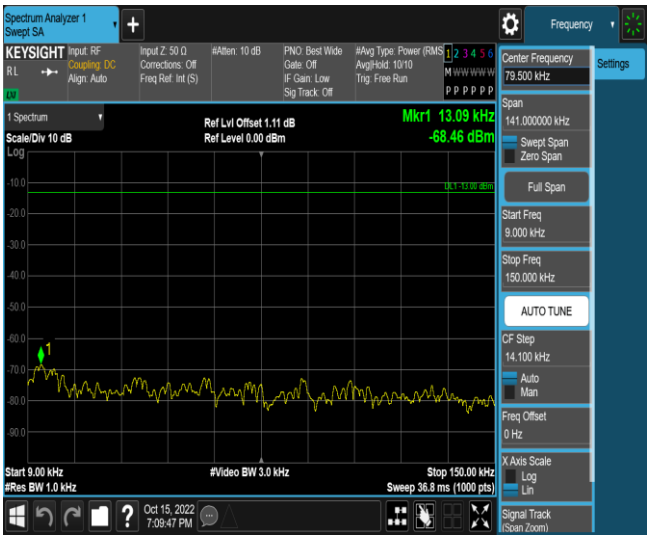
Band5-3MHz-16QAM-20415-1RB#0-Range3:30~1000MHz



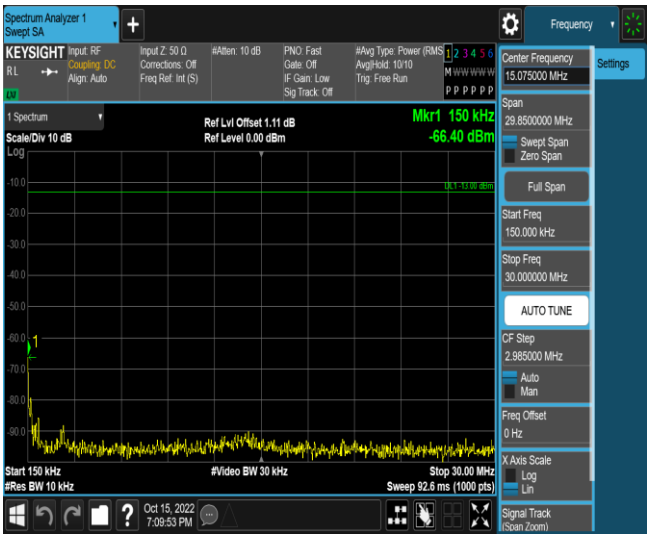
Band5-3MHz-16QAM-20415-1RB#0-Range4:1000~10000MHz



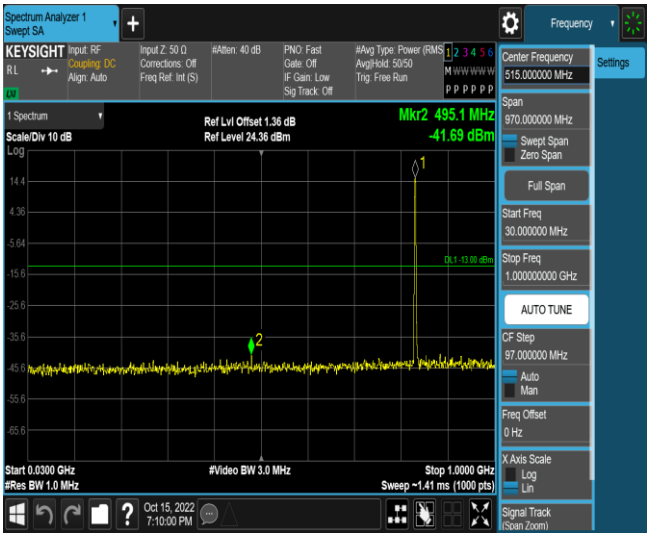
Band5-3MHz-16QAM-20525-1RB#0-Range1:0.009~0.15MHz



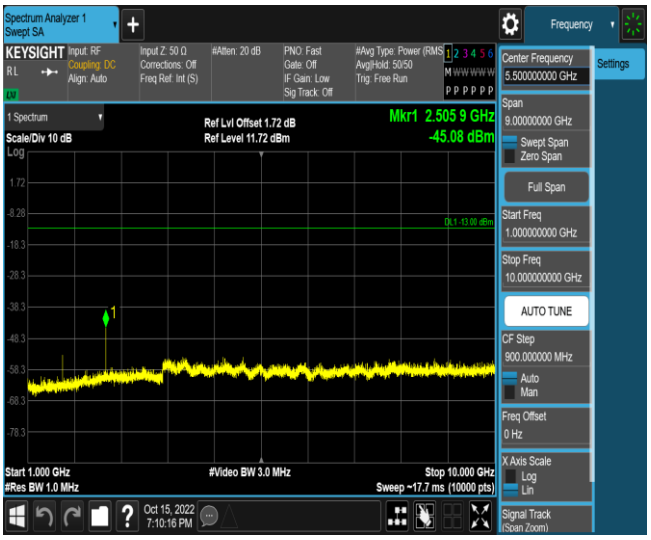
Band5-3MHz-16QAM-20525-1RB#0-Range2:0.15~30MHz



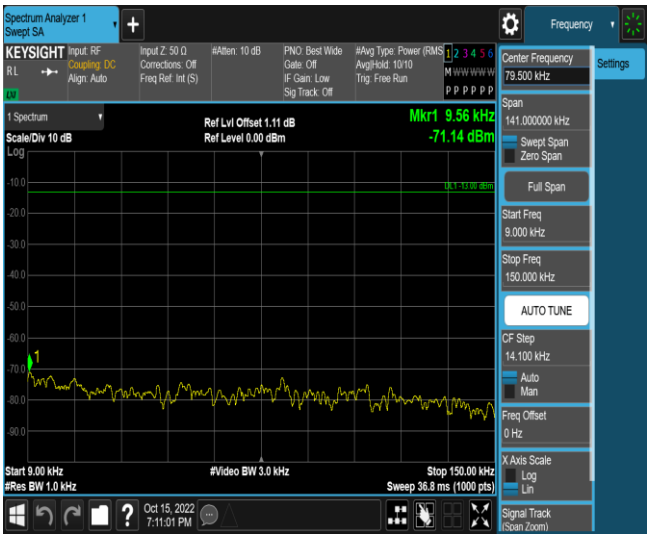
Band5-3MHz-16QAM-20525-1RB#0-Range3:30~1000MHz



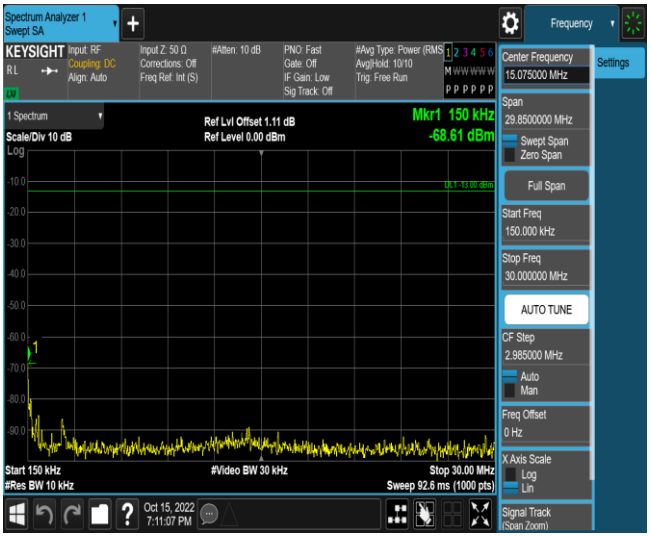
Band5-3MHz-16QAM-20525-1RB#0-Range4:1000~10000MHz



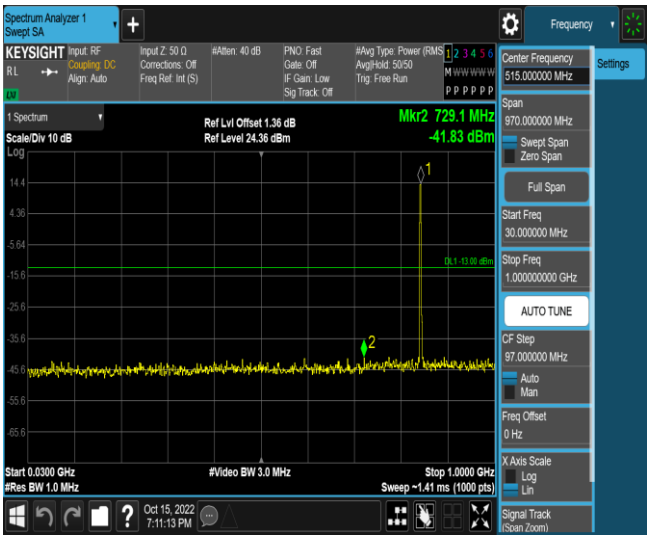
Band5-3MHz-16QAM-20635-1RB#0-Range1:0.009~0.15MHz



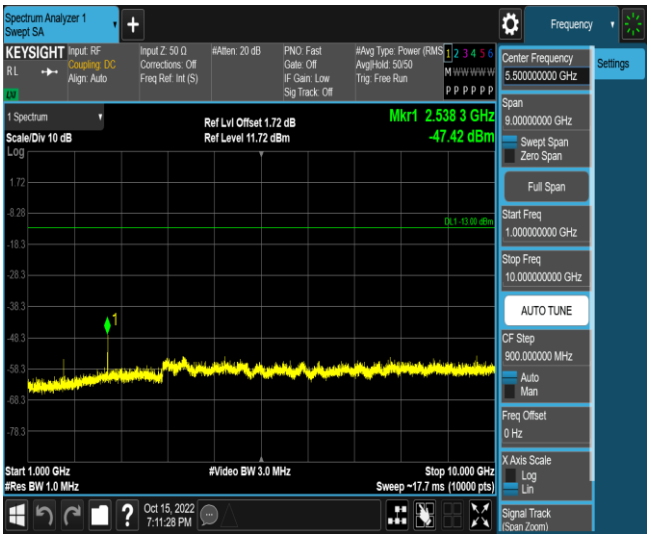
Band5-3MHz-16QAM-20635-1RB#0-Range2:0.15~30MHz



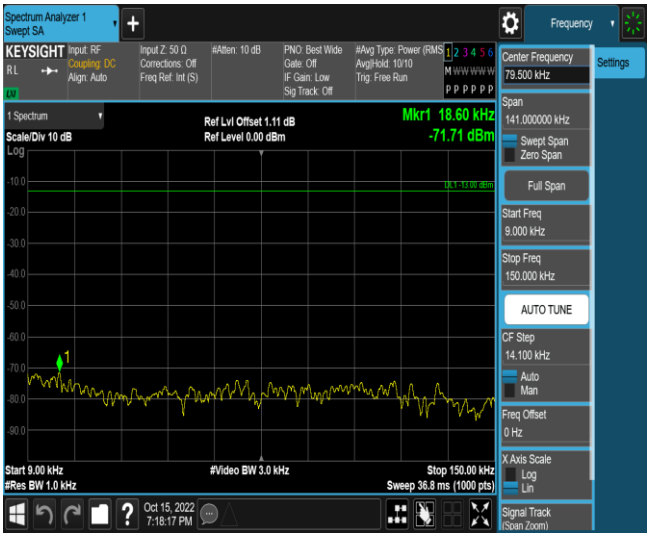
Band5-3MHz-16QAM-20635-1RB#0-Range3:30~1000MHz



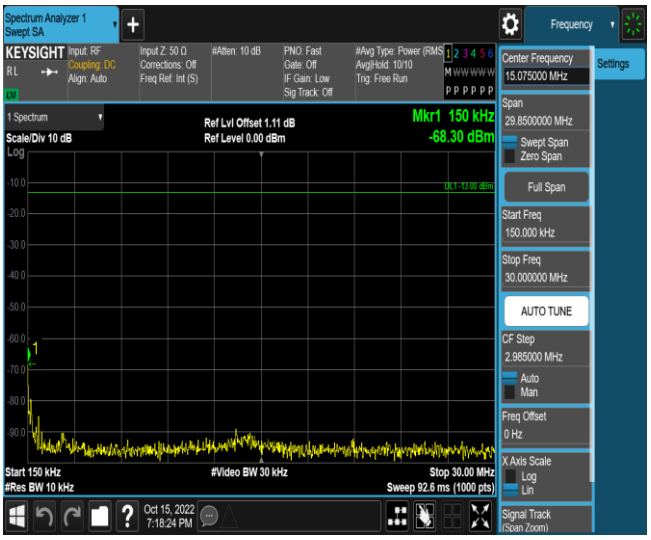
Band5-3MHz-16QAM-20635-1RB#0-Range4:1000~10000MHz



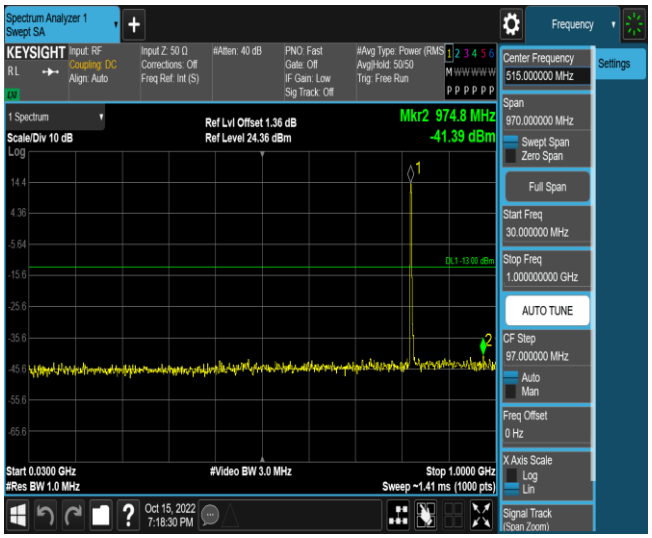
Band5-5MHz-QPSK-20425-1RB#0-Range1:0.009~0.15MHz



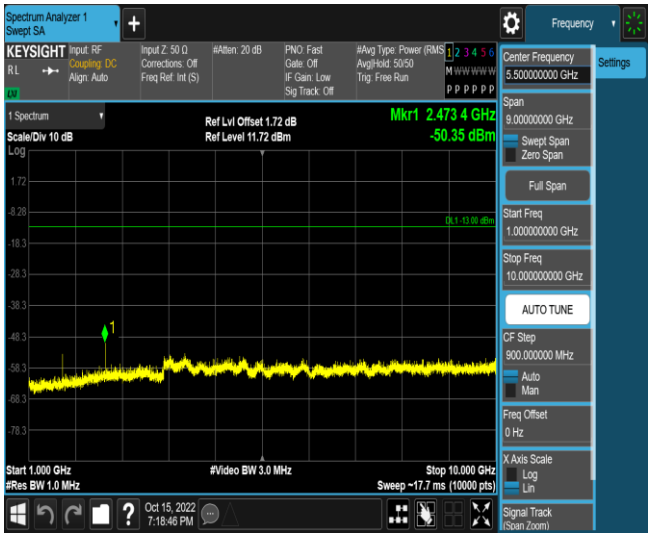
Band5-5MHz-QPSK-20425-1RB#0-Range2:0.15~30MHz



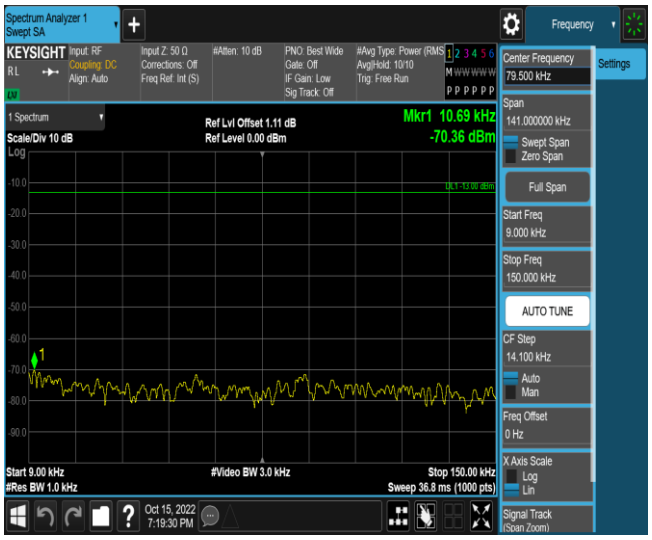
Band5-5MHz-QPSK-20425-1RB#0-Range3:30~1000MHz



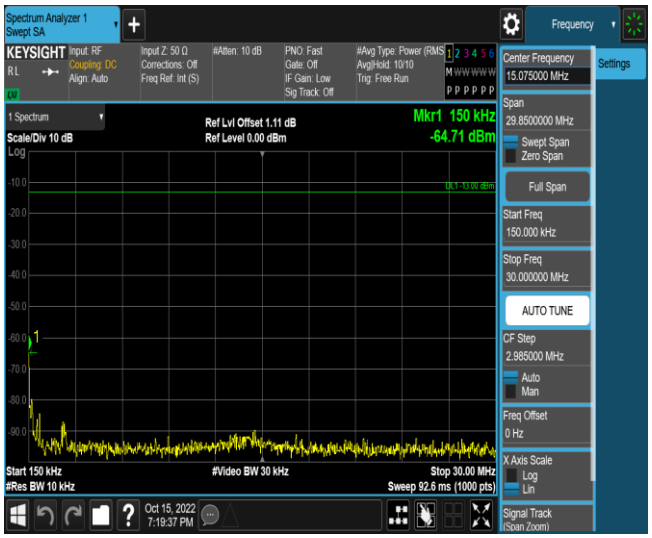
Band5-5MHz-QPSK-20425-1RB#0-Range4:1000~10000MHz



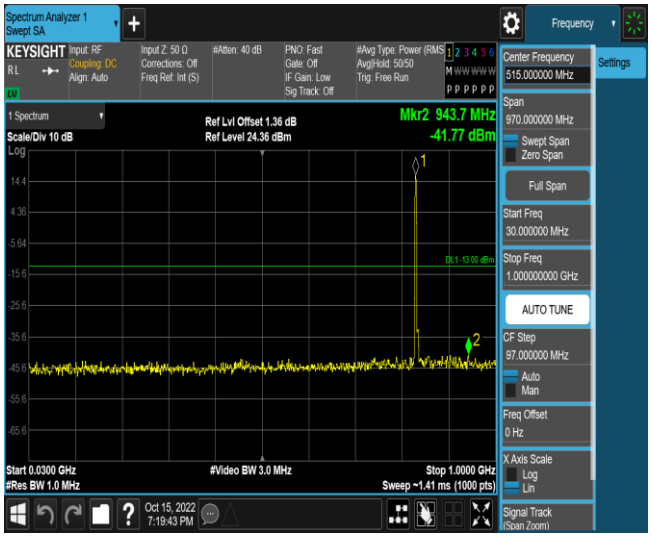
Band5-5MHz-QPSK-20525-1RB#0-Range1:0.009~0.15MHz



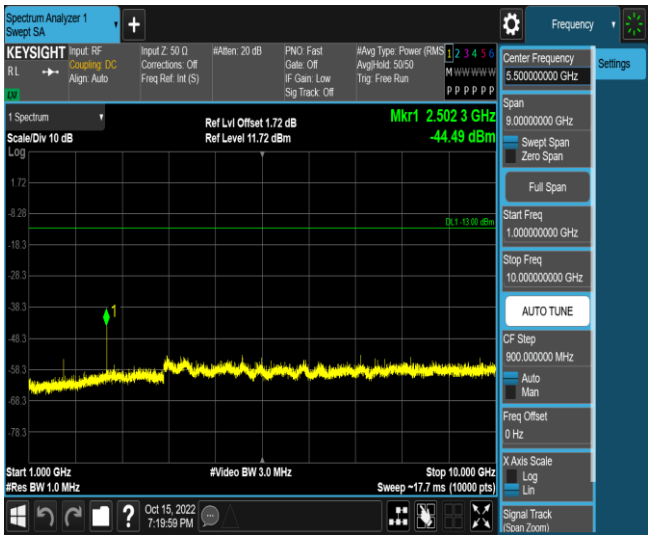
Band5-5MHz-QPSK-20525-1RB#0-Range2:0.15~30MHz



Band5-5MHz-QPSK-20525-1RB#0-Range3:30~1000MHz



Band5-5MHz-QPSK-20525-1RB#0-Range4:1000~10000MHz



Band5-5MHz-QPSK-20625-1RB#0-Range1:0.009~0.15MHz