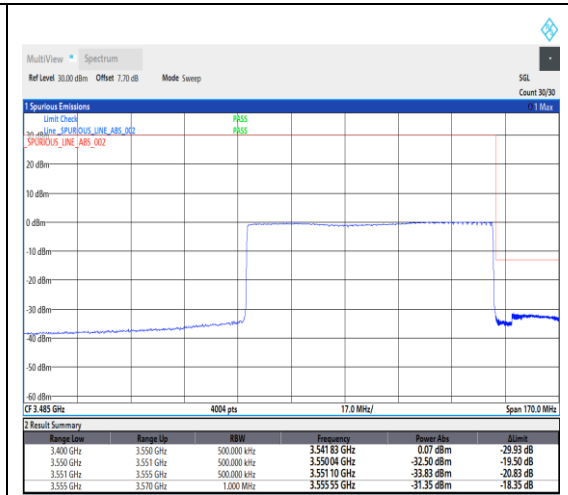
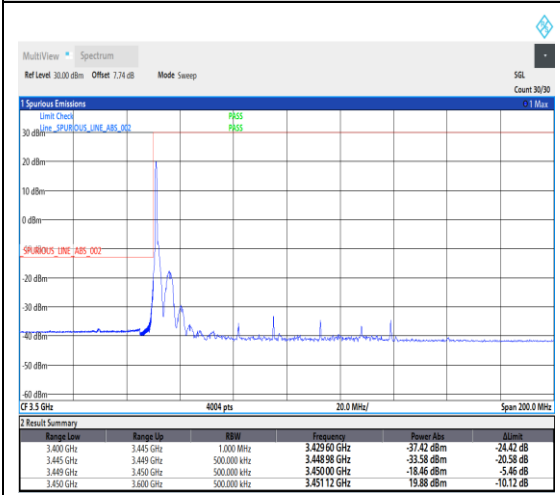


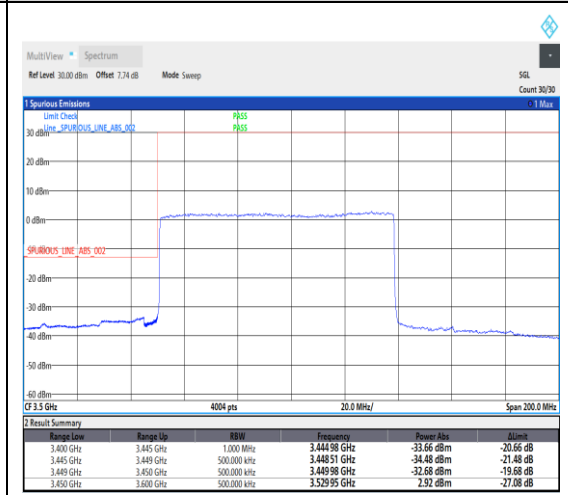
1-N78-3450-3550--30-80-H-5-CP-QPSK-Edge\_1RB\_Right-1@216-Ant1-1---see graph



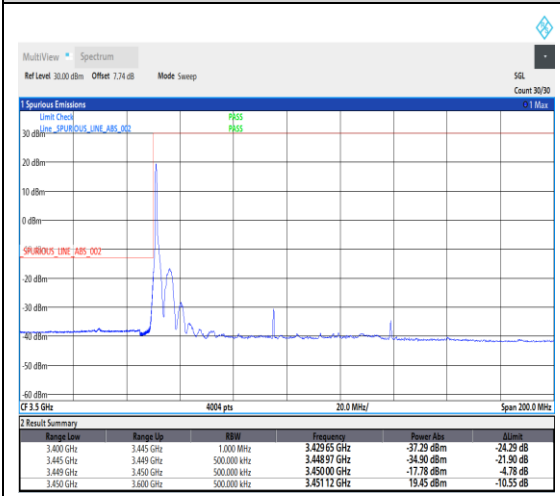
1-N78-3450-3550--30-80-H-6-CP-QPSK-Out\_er\_Full-217@0-Ant1-1---see graph



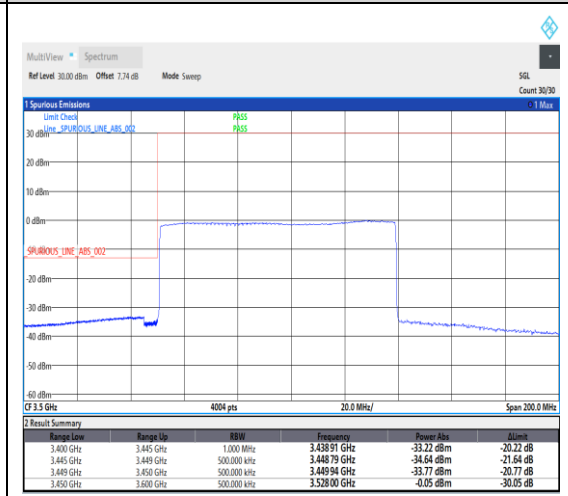
1-N78-3450-3550--30-90-L-1-DFT-PI2BPSK-Edge\_1RB\_Left-1@0-Ant1-1---see graph



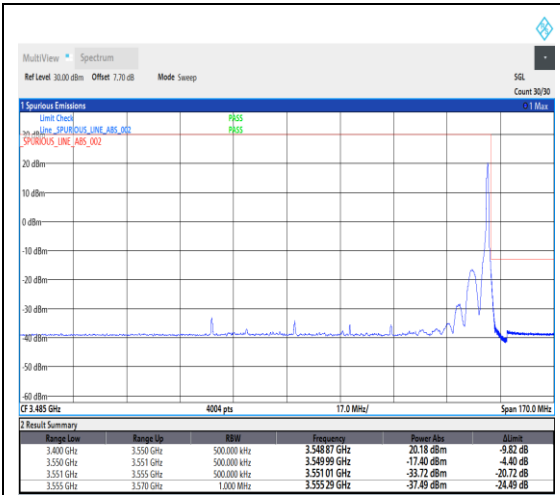
1-N78-3450-3550--30-90-L-3-DFT-PI2BPSK-Outer\_Full-243@0-Ant1-1---see graph



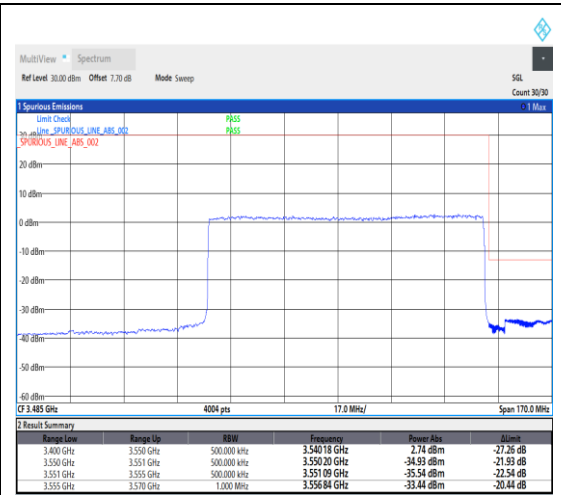
1-N78-3450-3550--30-90-L-4-CP-QPSK-Edge\_1RB\_Left-1@0-Ant1-1---see graph



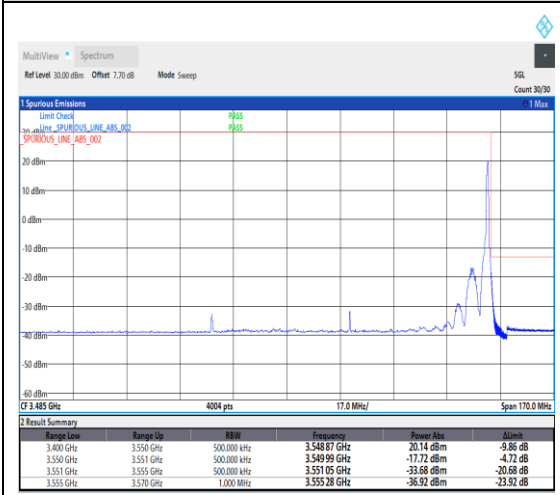
1-N78-3450-3550--30-90-L-6-CP-QPSK-Outer\_Full-245@0-Ant1-1---see graph



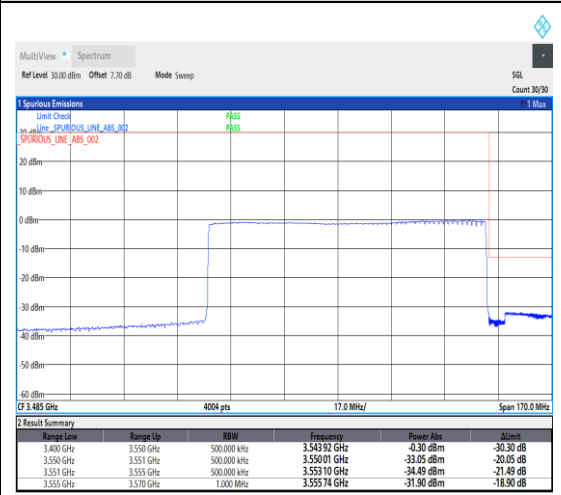
1-N78-3450-3550--30-90-H-2-DFT-PI2BPSK-Edge\_1RB\_Right-1@244-Ant1-1---see graph



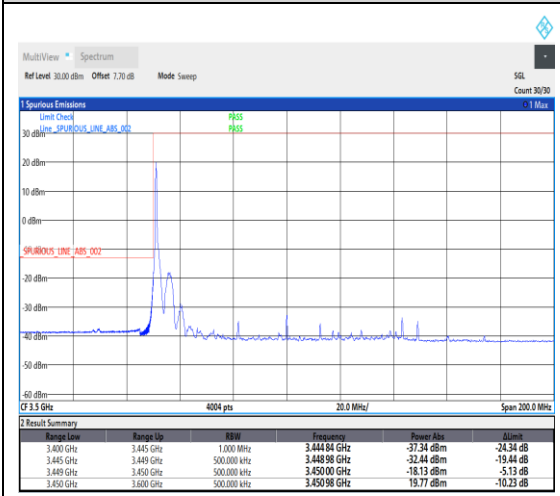
1-N78-3450-3550--30-90-H-3-DFT-PI2BPSK-Outer\_Full-243@0-Ant1-1---see graph



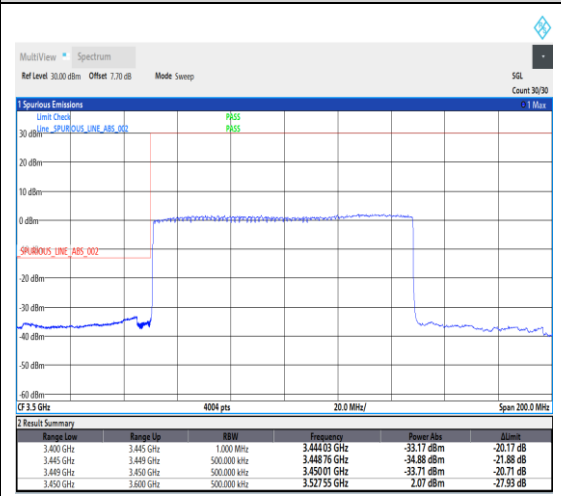
1-N78-3450-3550--30-90-H-5-CP-QPSK-Edge\_1RB\_Right-1@244-Ant1-1---see graph



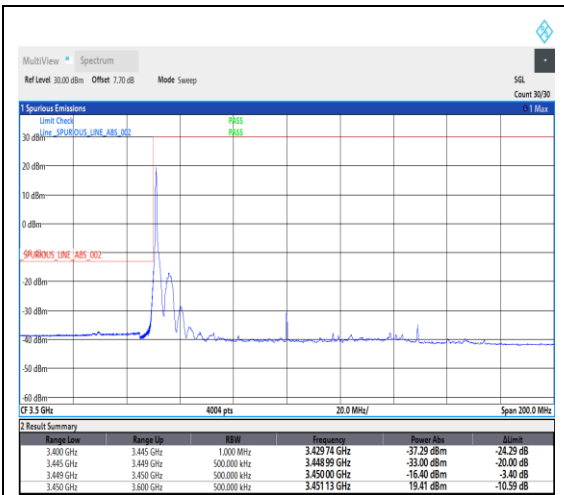
1-N78-3450-3550--30-90-H-6-CP-QPSK-Outer\_Full-245@0-Ant1-1---see graph



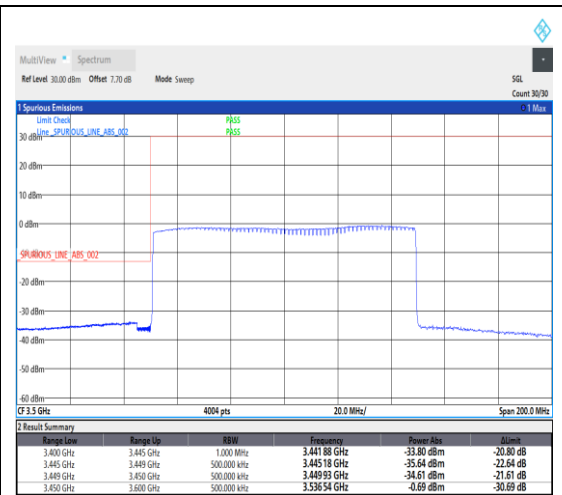
1-N78-3450-3550--30-100-L-1-DFT-PI2BPSK-Edge\_1RB\_Left-1@0-Ant1-1---see graph



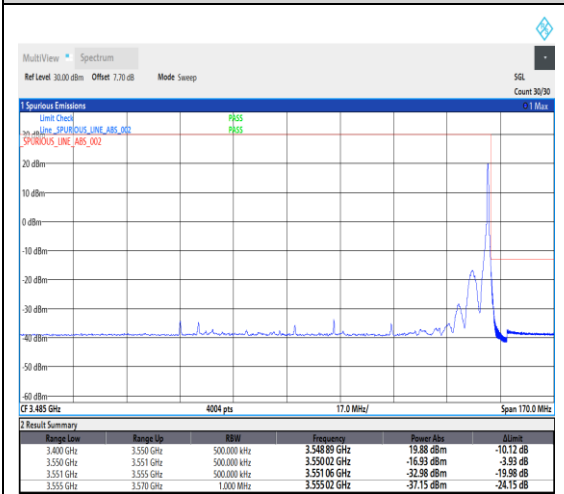
1-N78-3450-3550--30-100-L-3-DFT-PI2BPSK-Outer\_Full-270@0-Ant1-1---see graph



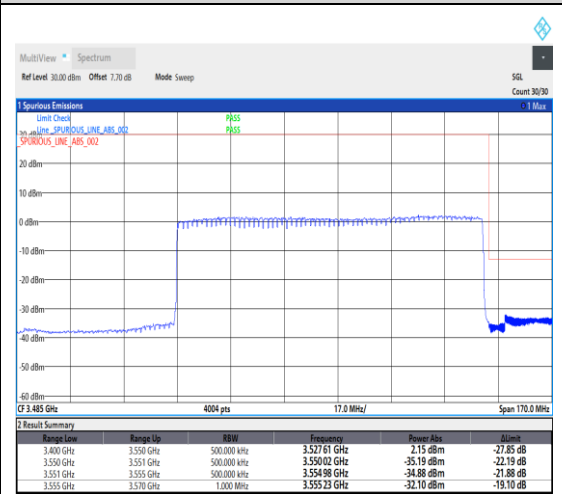
1-N78-3450-3550--30-100-L-4-CP-QPSK-Edge\_1RB\_Left-1@0-Ant1-1---see graph



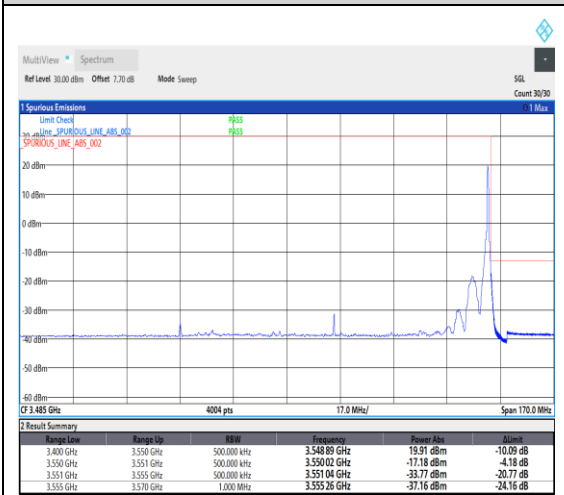
1-N78-3450-3550--30-100-L-6-CP-QPSK-Out\_er\_Full-273@0-Ant1-1---see graph



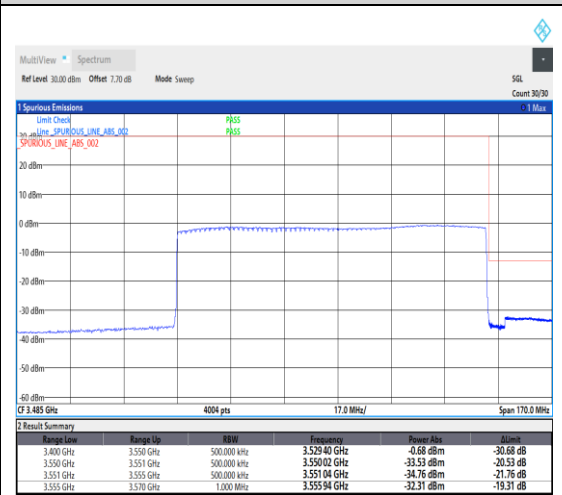
1-N78-3450-3550--30-100-H-2-DFT-PI2BPS K-Edge\_1RB\_Right-1@272-Ant1-1---see graph



1-N78-3450-3550--30-100-H-3-DFT-PI2BPS K-Outer\_Full-270@0-Ant1-1---see graph



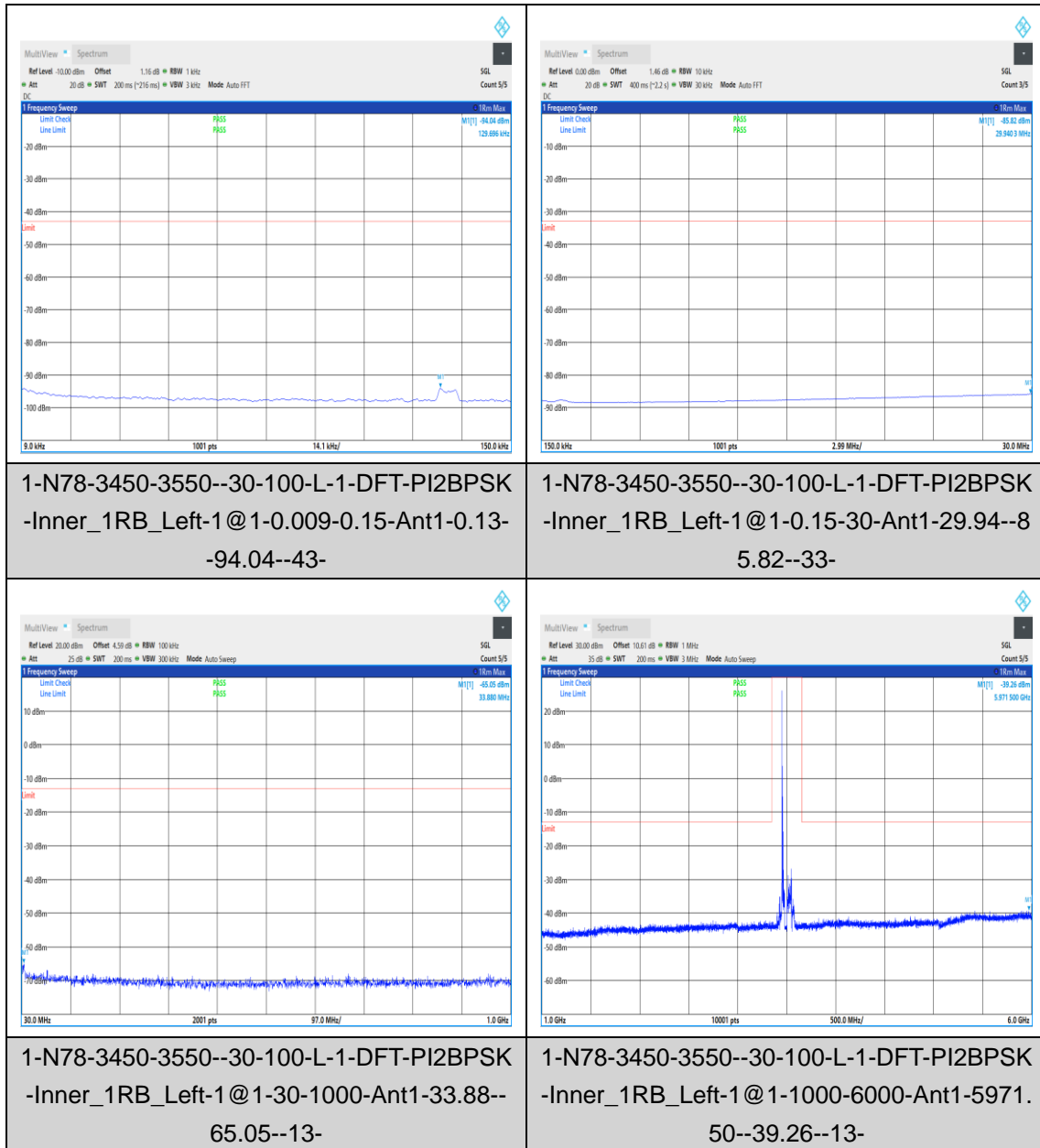
1-N78-3450-3550--30-100-H-5-CP-QPSK-Edge\_1RB\_Right-1@272-Ant1-1---see graph

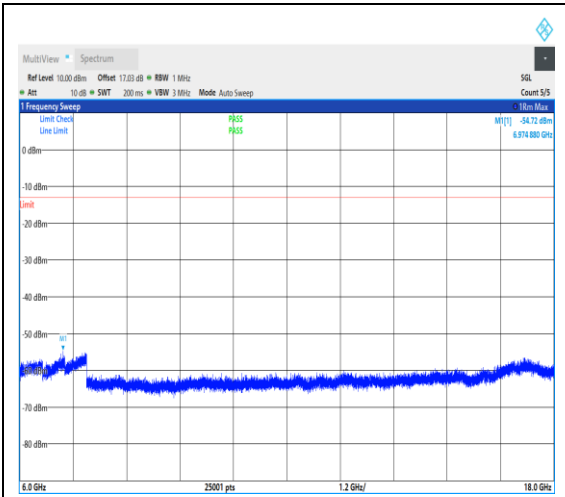


1-N78-3450-3550--30-100-H-6-CP-QPSK-Outer\_Full-273@0-Ant1-1---see graph

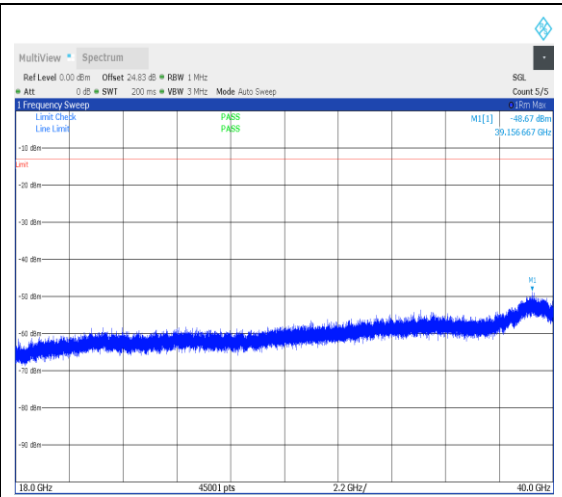
## 5. Conducted Spurious Emission for SA

### Test Graphs

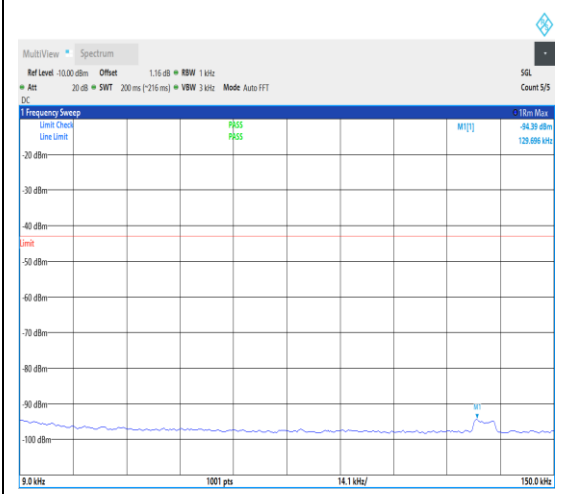




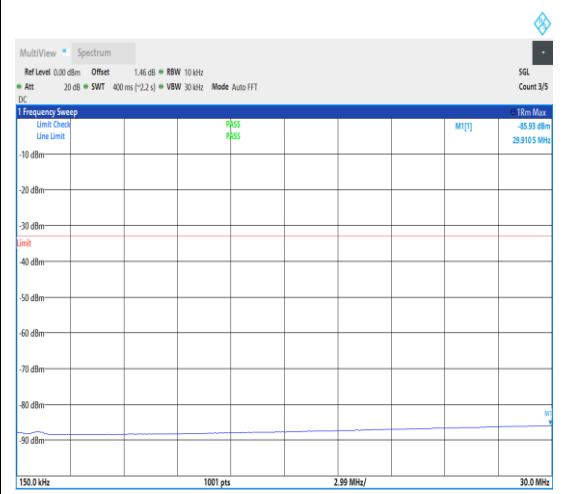
1-N78-3450-3550--30-100-L-1-DFT-PI2BPSK  
-Inner\_1RB\_Left-1@1-6000-18000-Ant1-697  
4.88--54.72--13-



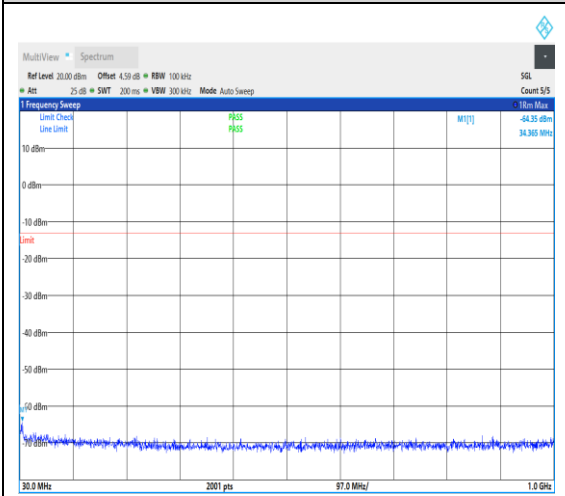
1-N78-3450-3550--30-100-L-1-DFT-PI2BPSK  
-Inner\_1RB\_Left-1@1-18000-40000-Ant1-18  
000.00--59.04--13-



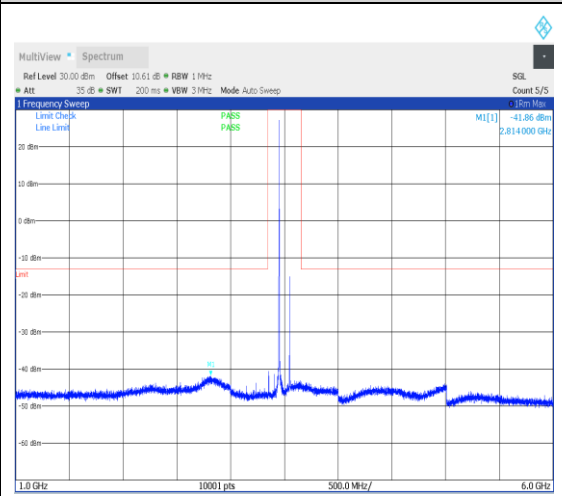
1-N78-3450-3550--30-100-M-1-DFT-PI2BPS  
K-Inner\_1RB\_Left-1@1-0.009-0.15-Ant1-0.1  
3--94.39--43-



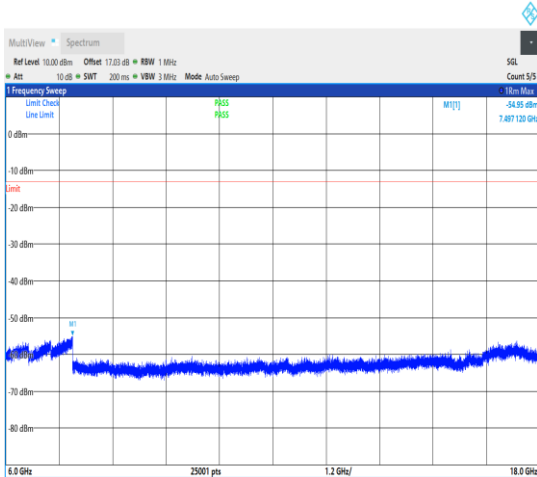
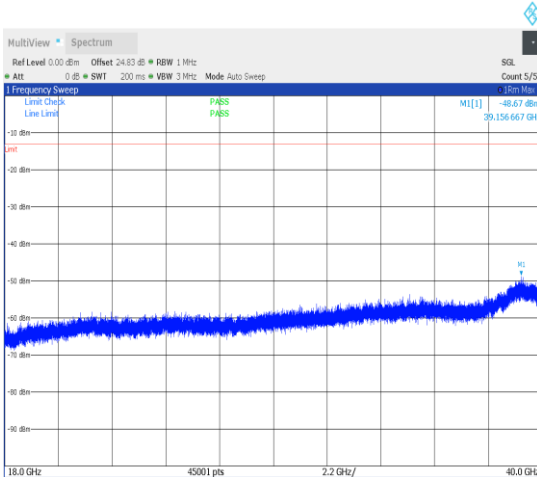
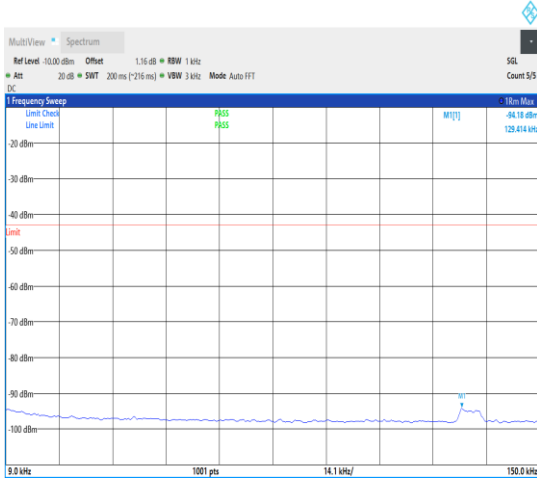
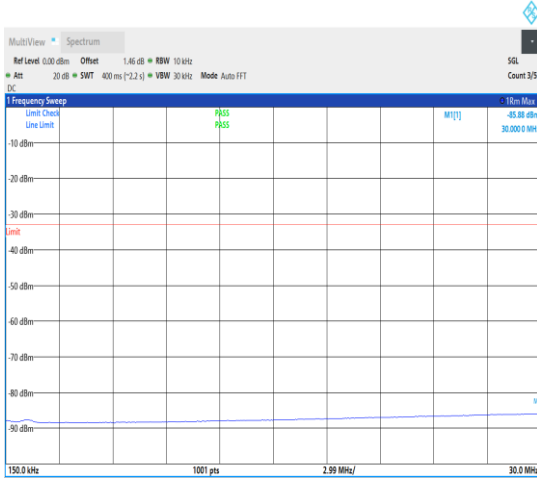
1-N78-3450-3550--30-100-M-1-DFT-PI2BPS  
K-Inner\_1RB\_Left-1@1-0.15-30-Ant1-29.91--  
85.93--33-

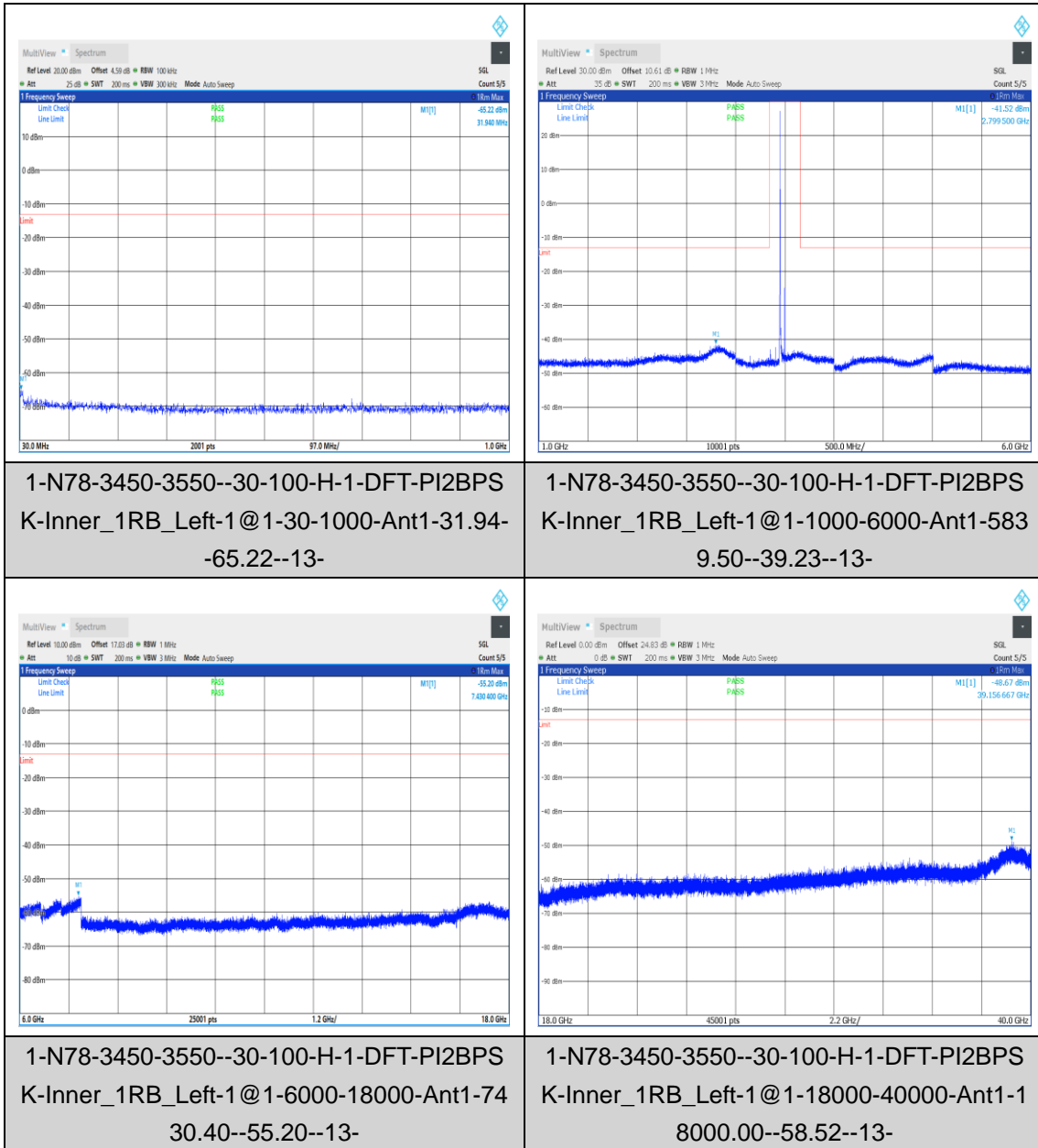


1-N78-3450-3550--30-100-M-1-DFT-PI2BPS



1-N78-3450-3550--30-100-M-1-DFT-PI2BPS

<p>K-Inner_1RB_Left-1@1-30-1000-Ant1-34.37- -64.35--13-</p>	<p>K-Inner_1RB_Left-1@1-1000-6000-Ant1-589 9.00--38.87--13-</p>
 <p>MultiView Spectrum          Ref Level: 10.00 dBm Offset: 11.03 dB RBW: 1 MHz          Att: 10 dB SWT: 200 ms VBW: 3 MHz Mode: Auto Sweep          SFL Count: 5/5          1 Frequency Sweep          Limit Check: PASS          Line Limit: PASS          M[1]: -64.35 dBm          7.487 120 GHz          0 dBm          -10 dBm          -20 dBm          -30 dBm          -40 dBm          -50 dBm          -60 dBm          -70 dBm          -80 dBm          6.0 GHz 25001 pts 1.2 GHz/ 18.0 GHz</p>	 <p>MultiView Spectrum          Ref Level: 0.00 dBm Offset: 24.83 dB RBW: 1 MHz          Att: 0 dB SWT: 200 ms VBW: 3 MHz Mode: Auto Sweep          SFL Count: 5/5          1 Frequency Sweep          Limit Check: PASS          Line Limit: PASS          M[1]: -65.67 dBm          39.156 66.7 GHz          -10 dBm          -20 dBm          -30 dBm          -40 dBm          -50 dBm          -60 dBm          -70 dBm          -80 dBm          -90 dBm          18.0 GHz 45001 pts 2.2 GHz/ 40.0 GHz</p>
<p>1-N78-3450-3550--30-100-M-1-DFT-PI2BPS K-Inner_1RB_Left-1@1-6000-18000-Ant1-74 97.12--54.95--13-</p>	<p>1-N78-3450-3550--30-100-M-1-DFT-PI2BPS K-Inner_1RB_Left-1@1-18000-40000-Ant1-1 8000.00--58.77--13-</p>
 <p>MultiView Spectrum          Ref Level: -10.00 dBm Offset: 1.16 dB RBW: 1 kHz          Att: 20 dB SWT: 200 ms (*216 ms) VBW: 3 kHz Mode: Auto FFT          SFL Count: 5/5          DC          1 Frequency Sweep          Limit Check: PASS          Line Limit: PASS          M[1]: -94.18 dBm          129.414 kHz          -20 dBm          -30 dBm          -40 dBm          -50 dBm          -60 dBm          -70 dBm          -80 dBm          -90 dBm          -100 dBm          9.0 kHz 10001 pts 14.1 kHz/ 150.0 kHz</p>	 <p>MultiView Spectrum          Ref Level: 0.00 dBm Offset: 1.46 dB RBW: 10 kHz          Att: 20 dB SWT: 400 ms (*2.2 s) VBW: 30 kHz Mode: Auto FFT          SFL Count: 5/5          DC          1 Frequency Sweep          Limit Check: PASS          Line Limit: PASS          M[1]: -85.88 dBm          30.000 0 MHz          -10 dBm          -20 dBm          -30 dBm          -40 dBm          -50 dBm          -60 dBm          -70 dBm          -80 dBm          -90 dBm          -100 dBm          150.0 kHz 10001 pts 2.99 MHz/ 30.0 MHz</p>
<p>1-N78-3450-3550--30-100-H-1-DFT-PI2BPS K-Inner_1RB_Left-1@1-0.009-0.15-Ant1-0.1 3--94.18--43-</p>	<p>1-N78-3450-3550--30-100-H-1-DFT-PI2BPS K-Inner_1RB_Left-1@1-0.15-30-Ant1-30.00-- 85.88--33-</p>



## 6.Frequency Stability for SA

### Test Result

#### Frequency Error VS. Voltage

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N78-345 0-3550	30	100	DFT-PI2BPSK	M	Outer_Full	VH	NT	9.700000	0.002771	PASS
N78-345 0-3550	30	100	DFT-PI2BPSK	M	Outer_Full	VN	NT	8.700000	0.002486	PASS
N78-345 0-3550	30	100	DFT-PI2BPSK	M	Outer_Full	VL	NT	8.100000	0.002314	PASS
N78-345 0-3550	30	100	CP-QPSK	M	Outer_Full	VH	NT	17.000000	0.004857	PASS
N78-345 0-3550	30	100	CP-QPSK	M	Outer_Full	VN	NT	10.500000	0.003000	PASS
N78-345 0-3550	30	100	CP-QPSK	M	Outer_Full	VL	NT	9.800000	0.002800	PASS

#### Frequency Error VS. Temperature

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N78-345 0-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-30	8.600000	0.002457	PASS
N78-345 0-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-20	10.900000	0.003114	PASS
N78-345 0-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-10	6.400000	0.001829	PASS
N78-345 0-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	0	7.600000	0.002171	PASS
N78-345 0-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	10	4.300000	0.001229	PASS
N78-345 0-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	20	13.500000	0.003857	PASS
N78-345 0-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	30	12.800000	0.003657	PASS





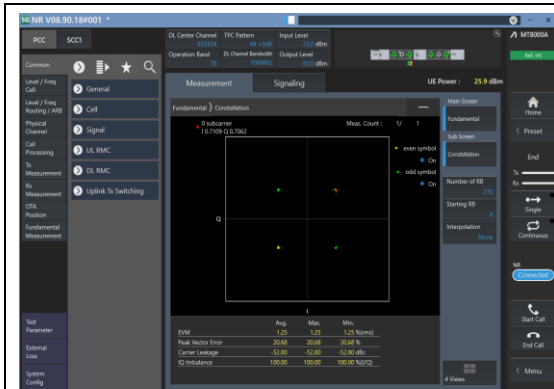
N78-345 0-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	40	3.400000	0.000971	PASS
N78-345 0-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	50	9.100000	0.002600	PASS
N78-345 0-3550	30	100	CP-QPSK	M	Outer_Full	NV	-30	7.400000	0.002114	PASS
N78-345 0-3550	30	100	CP-QPSK	M	Outer_Full	NV	-20	4.100000	0.001171	PASS
N78-345 0-3550	30	100	CP-QPSK	M	Outer_Full	NV	-10	7.300000	0.002086	PASS
N78-345 0-3550	30	100	CP-QPSK	M	Outer_Full	NV	0	2.200000	0.000629	PASS
N78-345 0-3550	30	100	CP-QPSK	M	Outer_Full	NV	10	8.300000	0.002371	PASS
N78-345 0-3550	30	100	CP-QPSK	M	Outer_Full	NV	20	4.700000	0.001343	PASS
N78-345 0-3550	30	100	CP-QPSK	M	Outer_Full	NV	30	3.400000	0.000971	PASS
N78-345 0-3550	30	100	CP-QPSK	M	Outer_Full	NV	40	6.500000	0.001857	PASS
N78-345 0-3550	30	100	CP-QPSK	M	Outer_Full	NV	50	6.700000	0.001914	PASS

## 7.Modulation characteristics for SA

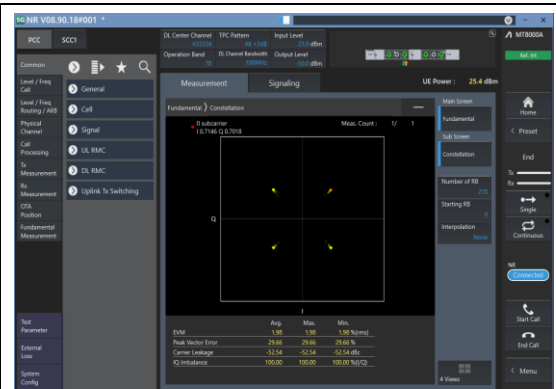
### Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Verdict
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	see graph	PASS
N78-3450-3550	30	100	DFT-QPSK	M	Outer_Full	see graph	PASS
N78-3450-3550	30	100	DFT-16QAM	M	Outer_Full	see graph	PASS
N78-3450-3550	30	100	DFT-64QAM	M	Outer_Full	see graph	PASS
N78-3450-3550	30	100	DFT-256QAM	M	Outer_Full	see graph	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	see graph	PASS
N78-3450-3550	30	100	CP-16QAM	M	Outer_Full	see graph	PASS
N78-3450-3550	30	100	CP-64QAM	M	Outer_Full	see graph	PASS
N78-3450-3550	30	100	CP-256QAM	M	Outer_Full	see graph	PASS

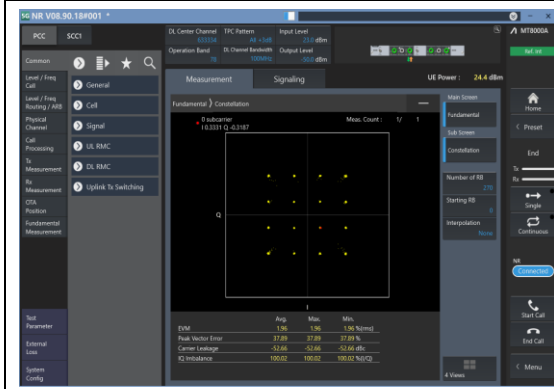
### Test Graphs



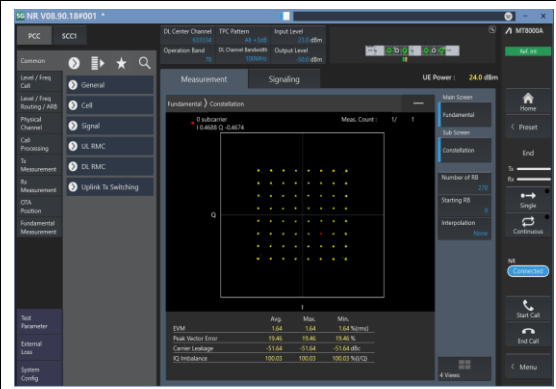
1-N78-3450-3550--30-100-M-1-DFT-PI2BPS  
K-Outer\_Full-270@0-Ant1-see graph-PASS



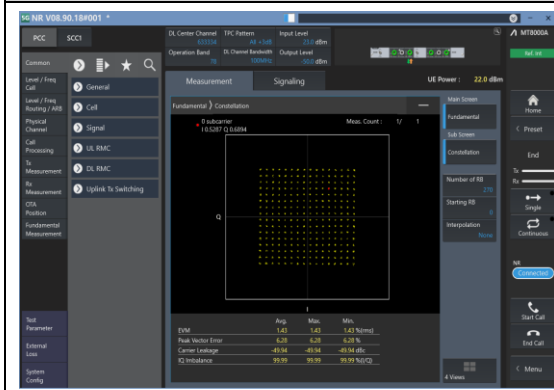
1-N78-3450-3550--30-100-M-2-DFT-QPSK-O  
uter\_Full-270@0-Ant1-see graph-PASS



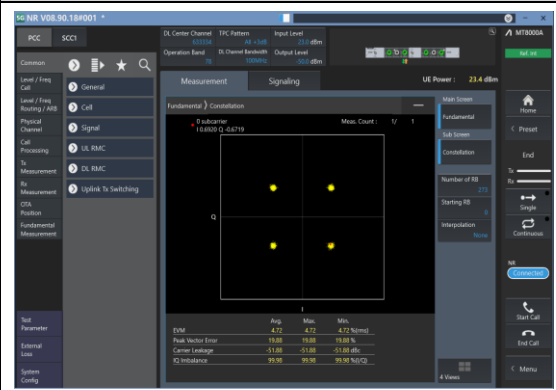
1-N78-3450-3550--30-100-M-3-DFT-16QAM-  
Outer\_Full-270@0-Ant1-see graph-PASS



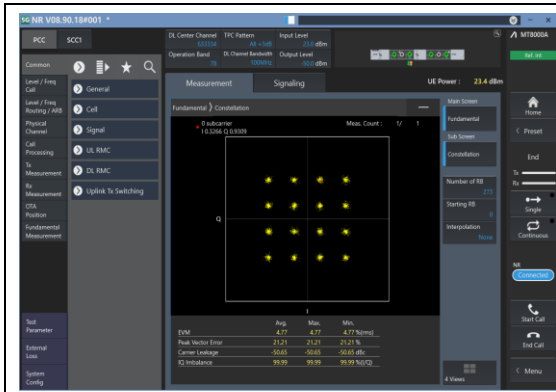
1-N78-3450-3550--30-100-M-4-DFT-64QAM-  
Outer\_Full-270@0-Ant1-see graph-PASS



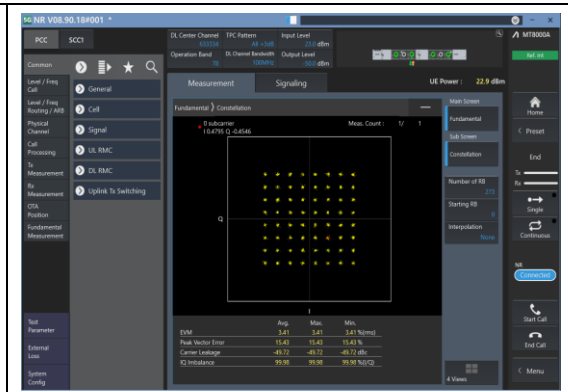
1-N78-3450-3550--30-100-M-5-DFT-256QAM  
-Outer\_Full-270@0-Ant1-see graph-PASS



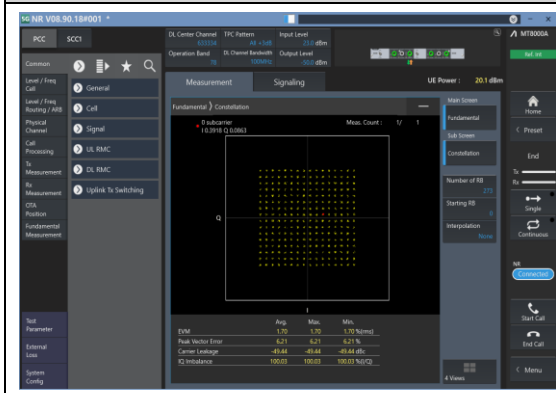
1-N78-3450-3550--30-100-M-6-CP-QPSK-Ou  
ter\_Full-273@0-Ant1-see graph-PASS



1-N78-3450-3550--30-100-M-7-CP-16QAM-Outer\_Full-273@0-Ant1-see graph-PASS



1-N78-3450-3550--30-100-M-8-CP-64QAM-Outer\_Full-273@0-Ant1-see graph-PASS



1-N78-3450-3550--30-100-M-9-CP-256QAM-Outer\_Full-273@0-Ant1-see graph-PASS

