

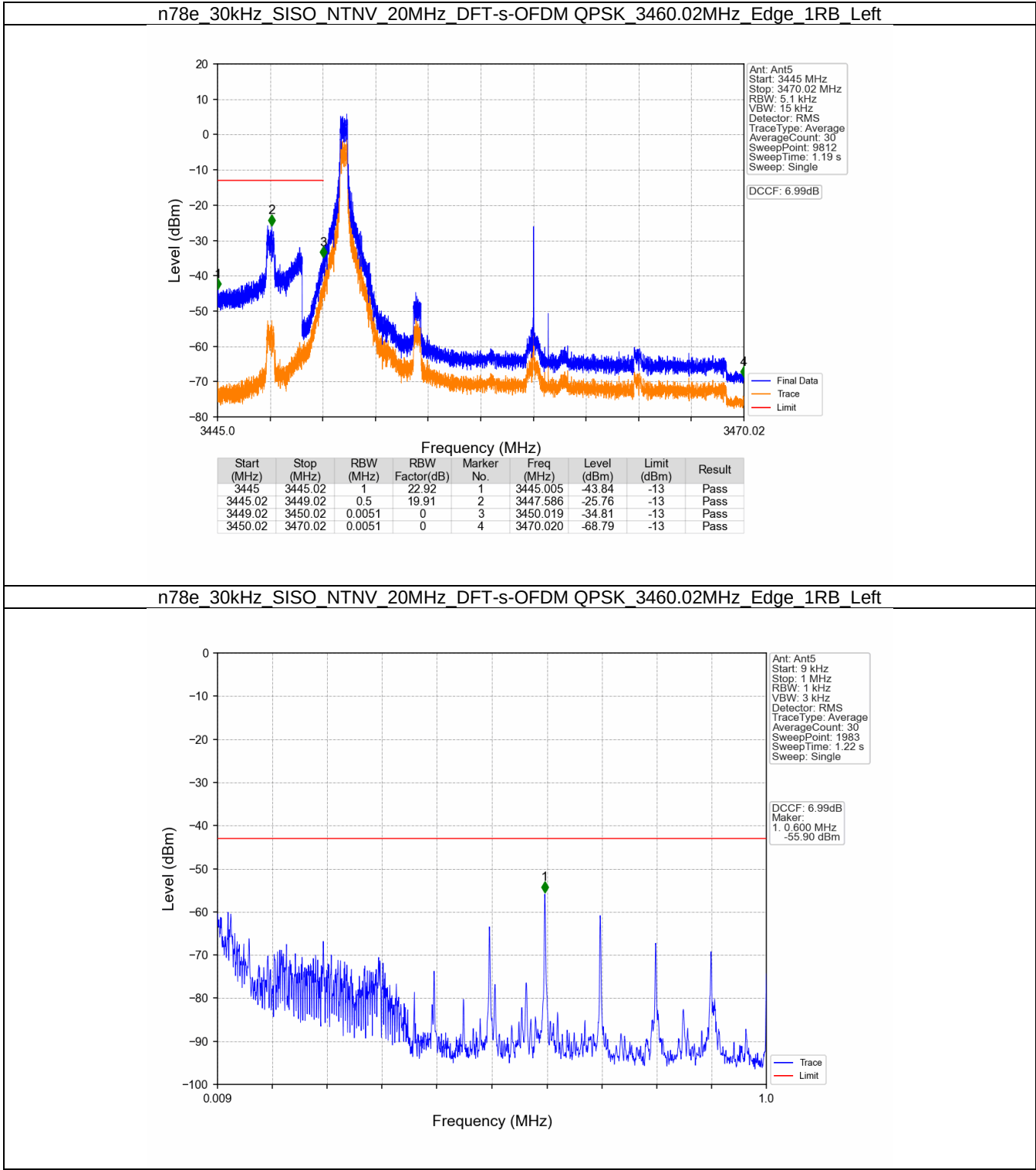
1. Spurious Emission

1.1 30k_SISO_20MHz_NTNV

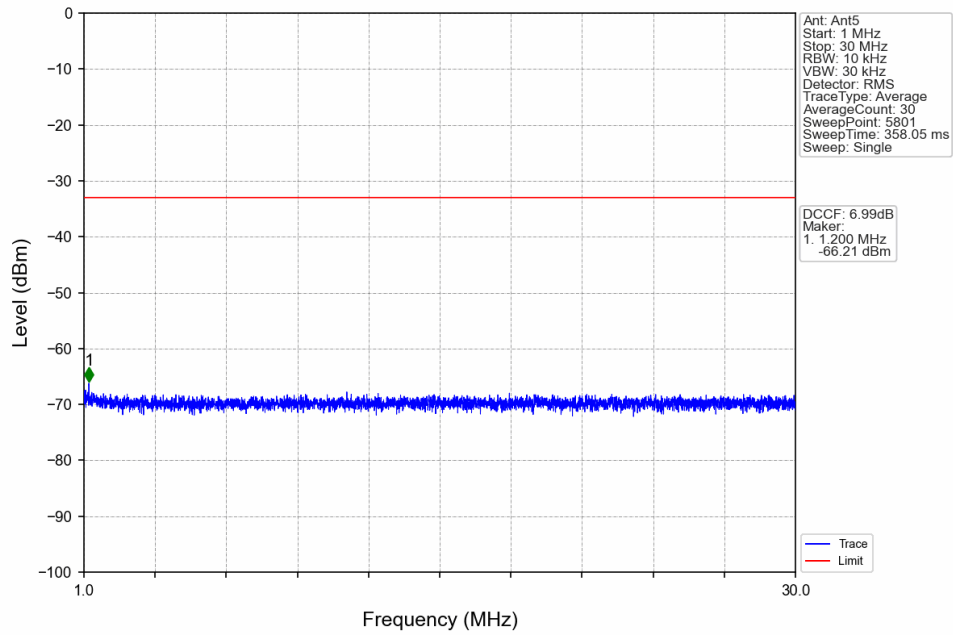
1.1.1 Test Result

5G NR n78e SCS=30kHz SISO 20MHz NTNv								
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission				Verdict	
			Ant5	Ant2	Sum	Limit		
DFT-s-OFDM QPSK	3460.02	Edge_1RB_Left	Refer To Test Graph				Pass	
		Outer_Full	Refer To Test Graph				Pass	
		Inner_1RB_Left	Refer To Test Graph				Pass	
	3500.01	Edge_1RB_Left	Refer To Test Graph				Pass	
		3540	Edge_1RB_Right	Refer To Test Graph				Pass
			Outer_Full	Refer To Test Graph				Pass
			Inner_1RB_Right	Refer To Test Graph				Pass
CP-OFDM QPSK	3460.02	Edge_1RB_Left	Refer To Test Graph				Pass	
		Outer_Full	Refer To Test Graph				Pass	
		Inner_1RB_Left	Refer To Test Graph				Pass	
	3500.01	Edge_1RB_Left	Refer To Test Graph				Pass	
		3540	Edge_1RB_Right	Refer To Test Graph				Pass
			Outer_Full	Refer To Test Graph				Pass
			Inner_1RB_Right	Refer To Test Graph				Pass

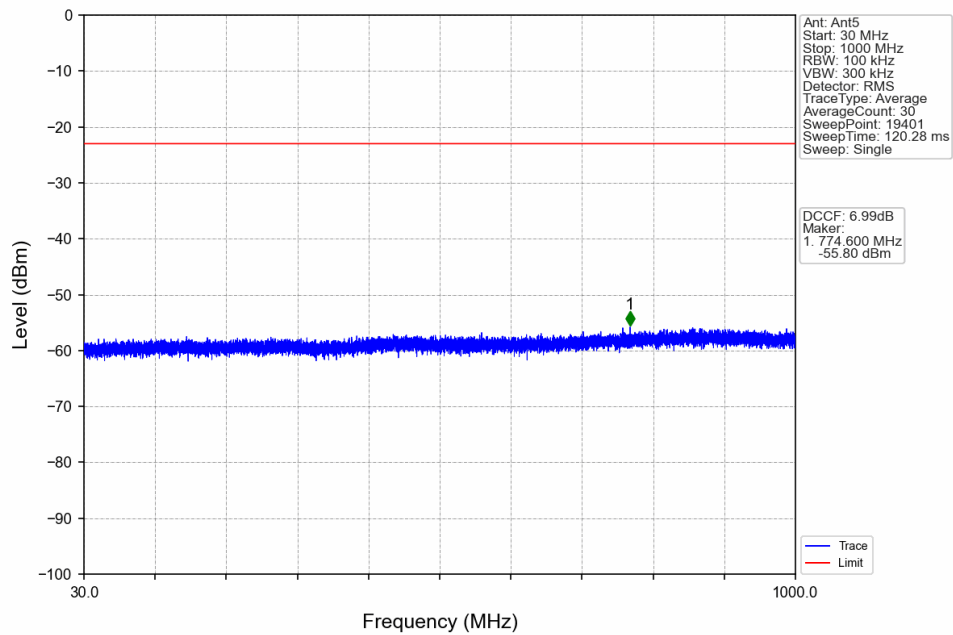
1.1.2 Test Graph



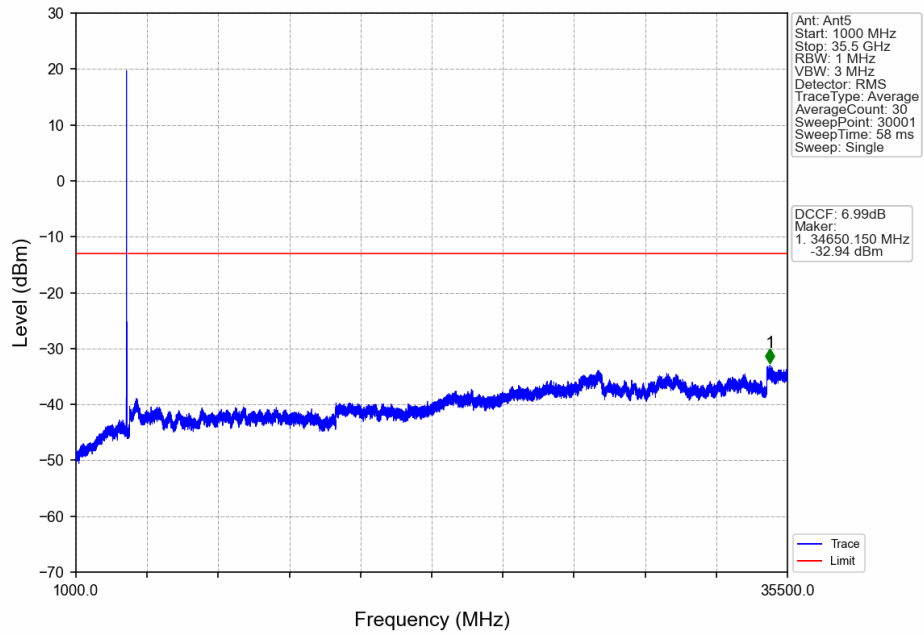
n78e 30kHz SISO NTN 20MHz DFT-s-OFDM QPSK 3460.02MHz Edge 1RB Left



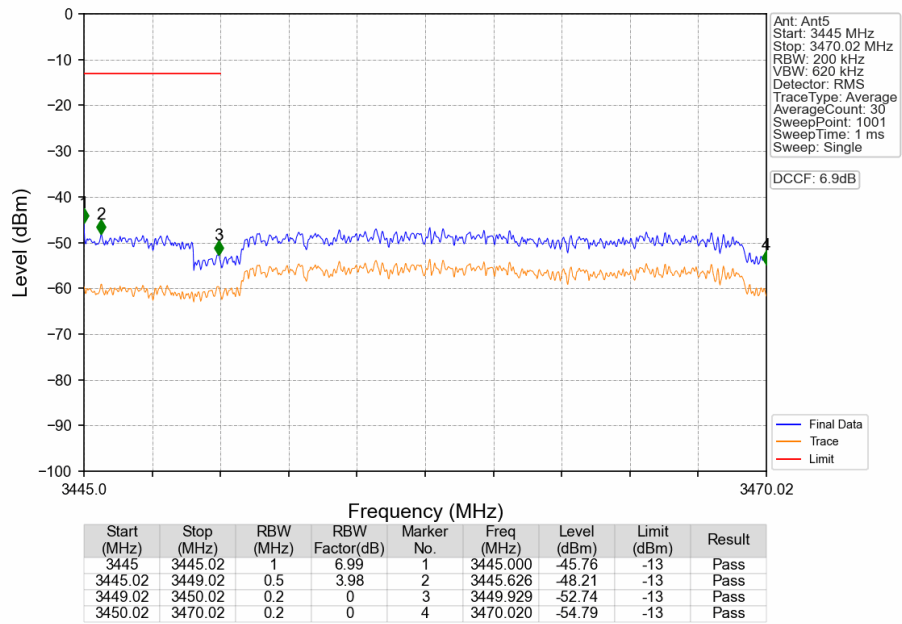
n78e 30kHz SISO NTN 20MHz DFT-s-OFDM QPSK 3460.02MHz Edge 1RB Left



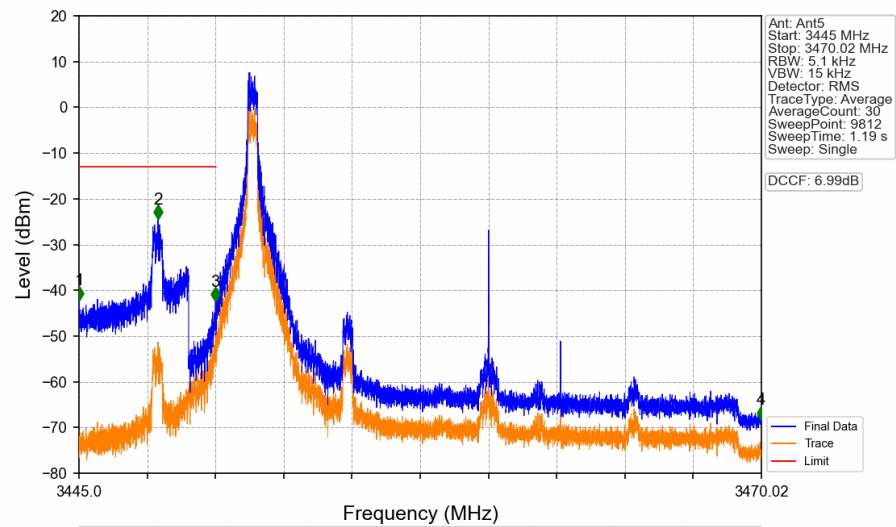
n78e 30kHz SISO NTN 20MHz DFT-s-OFDM QPSK 3460.02MHz Edge 1RB Left



n78e 30kHz SISO NTN 20MHz DFT-s-OFDM QPSK 3460.02MHz Outer Full

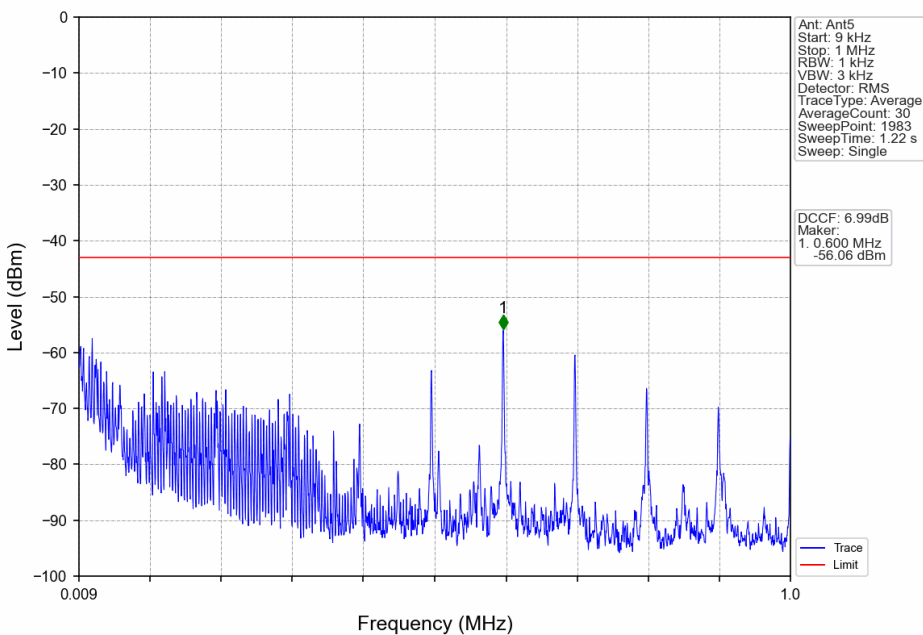


n78e 30kHz SISO NTN 20MHz DFT-s-OFDM QPSK 3460.02MHz Inner 1RB Left

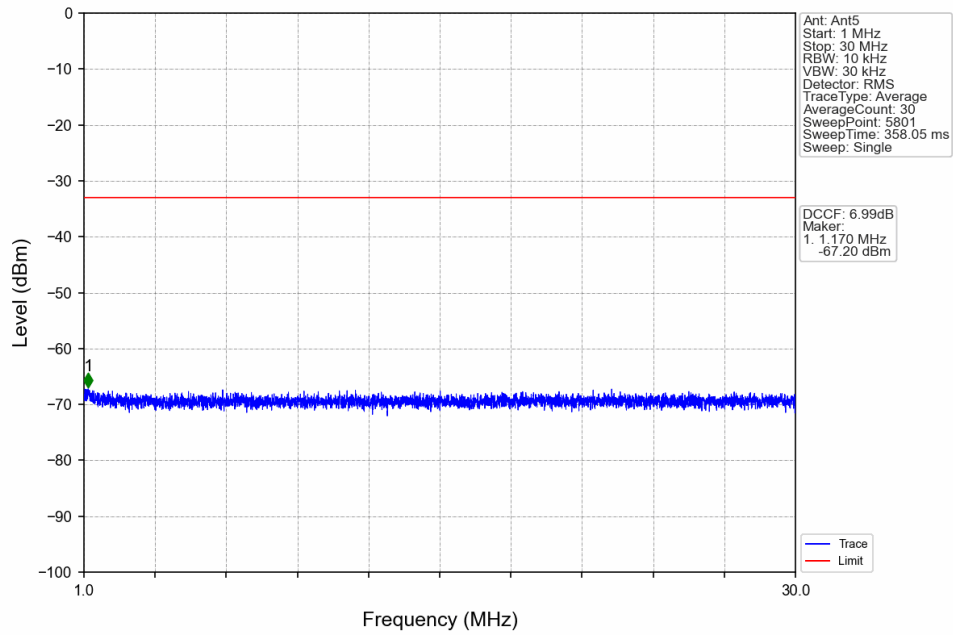


Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3445	3445.02	1	22.92	1	3445.003	-42.20	-13	Pass
3445.02	3449.02	0.5	19.91	2	3447.897	-24.41	-13	Pass
3449.02	3450.02	0.0051	0	3	3450.003	-42.50	-13	Pass
3450.02	3470.02	0.0051	0	4	3470.020	-68.30	-13	Pass

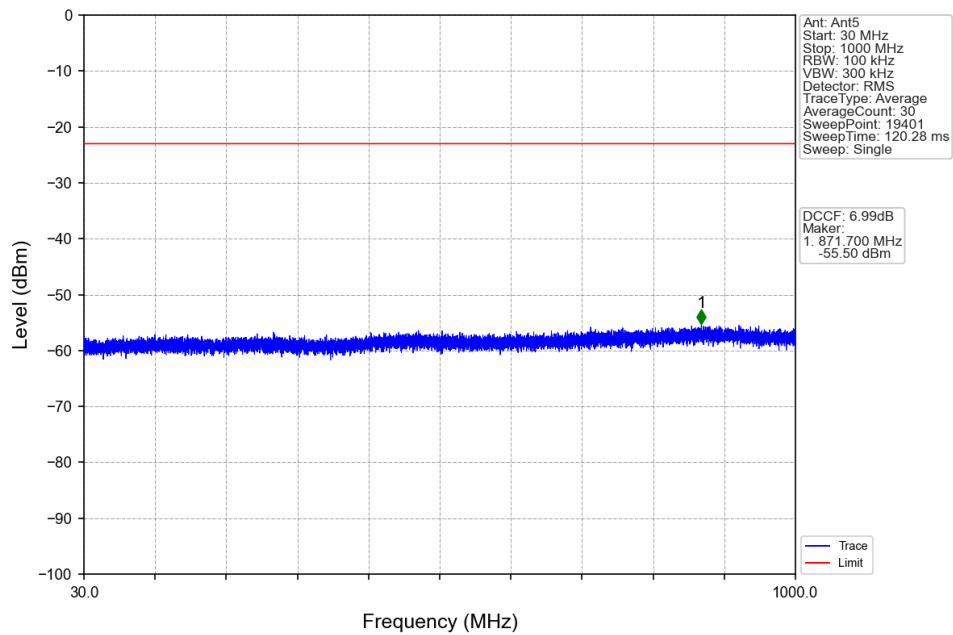
n78e 30kHz SISO NTN 20MHz DFT-s-OFDM QPSK 3500.01MHz Edge 1RB Left



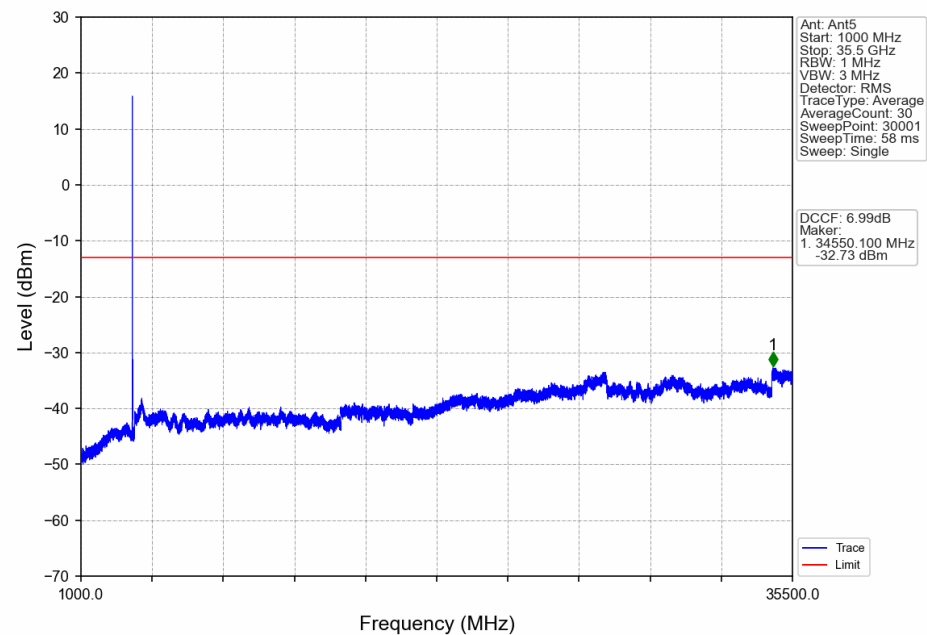
n78e 30kHz SISO NTN 20MHz DFT-s-OFDM QPSK 3500.01MHz Edge 1RB Left



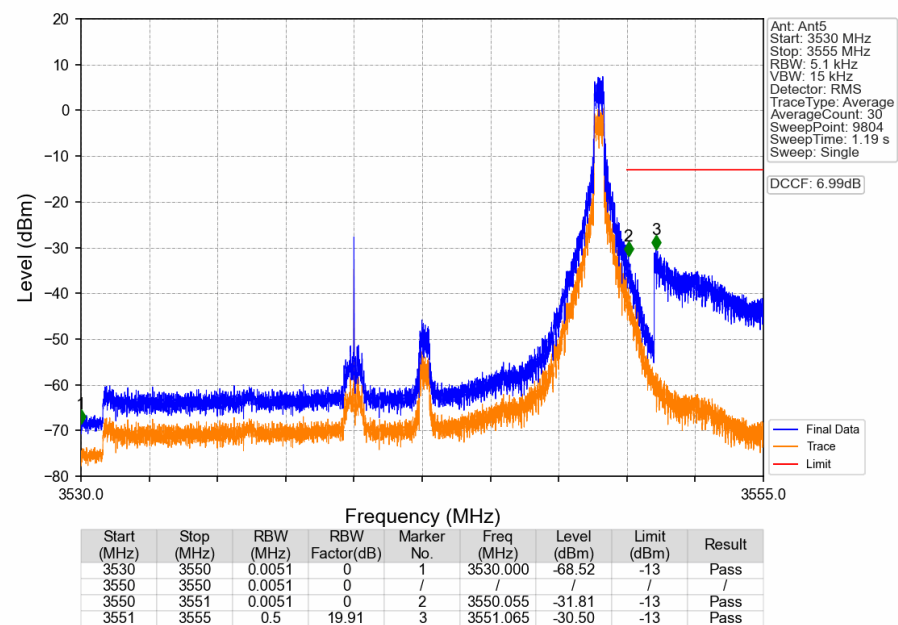
n78e 30kHz SISO NTN 20MHz DFT-s-OFDM QPSK 3500.01MHz Edge 1RB Left



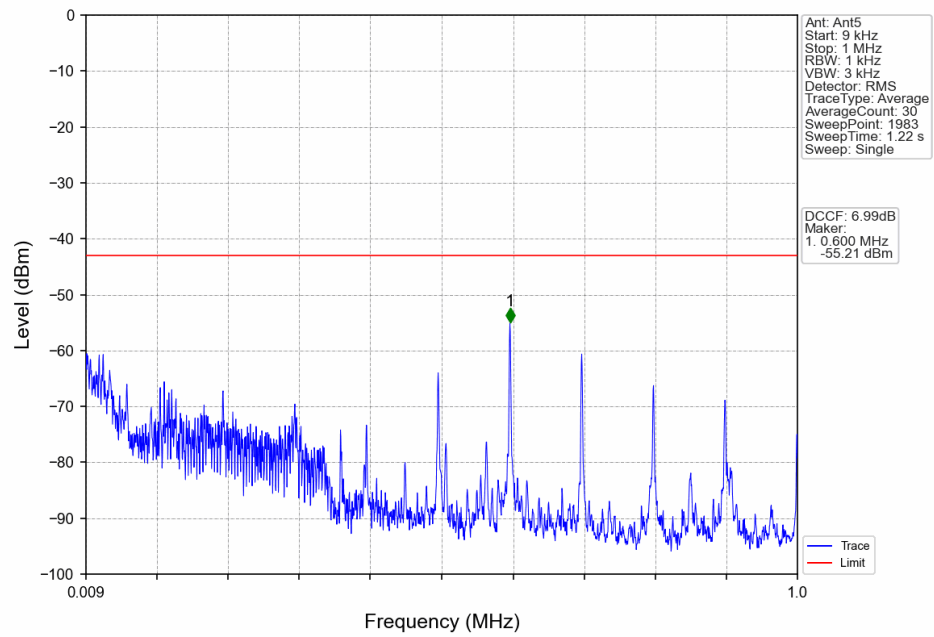
n78e 30kHz SISO NTN 20MHz DFT-s-OFDM QPSK 3500.01MHz Edge 1RB Left



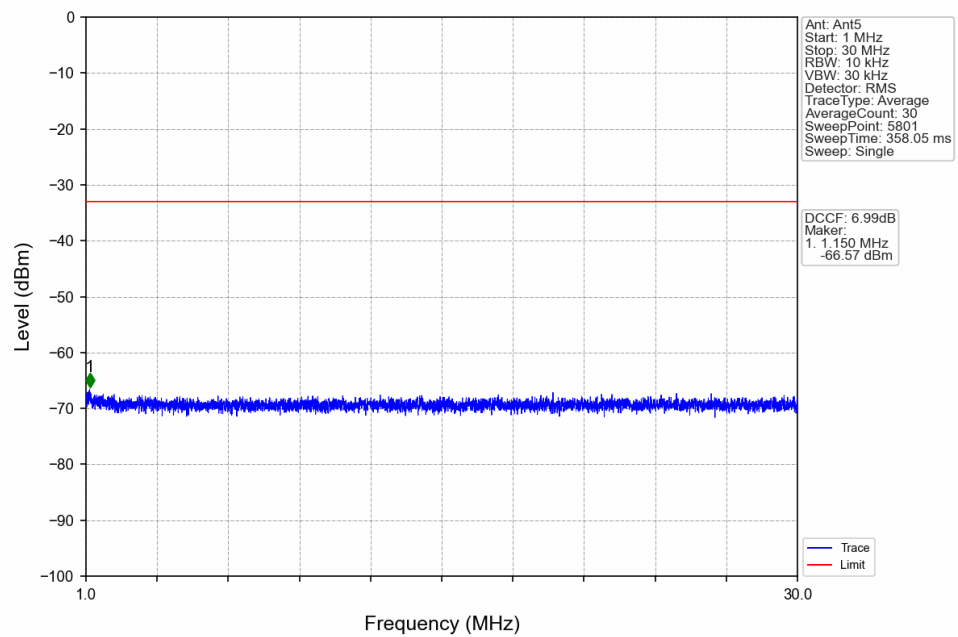
n78e 30kHz SISO NTN 20MHz DFT-s-OFDM QPSK 3540MHz Edge 1RB Right



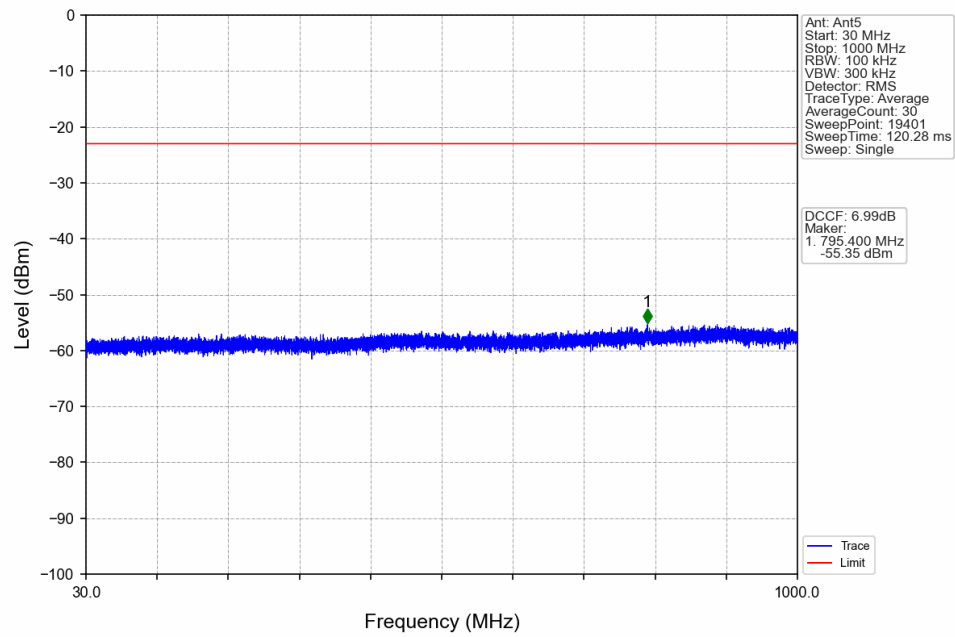
n78e 30kHz SISO NTN 20MHz DFT-s-OFDM QPSK 3540MHz Edge 1RB Right



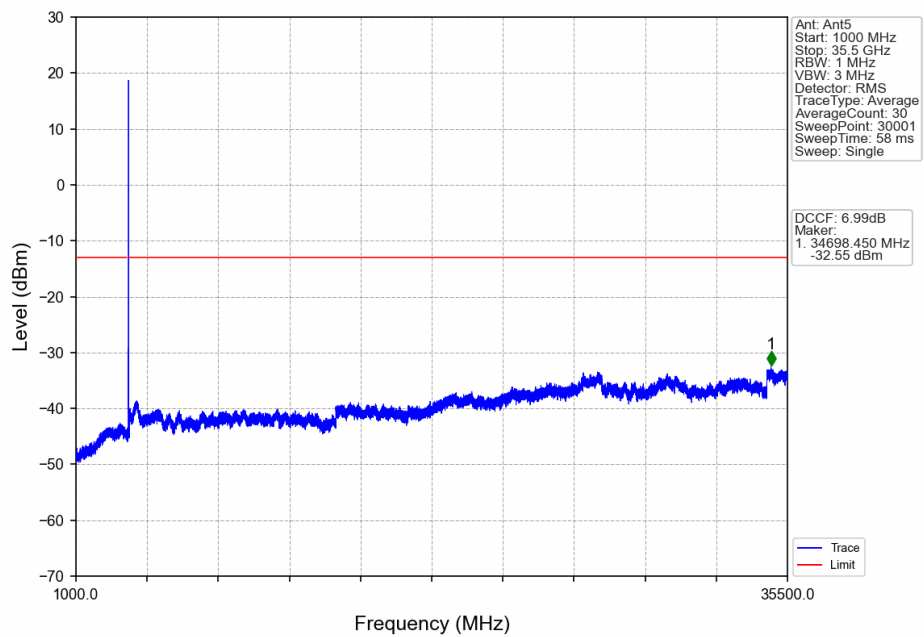
n78e 30kHz SISO NTN 20MHz DFT-s-OFDM QPSK 3540MHz Edge 1RB Right



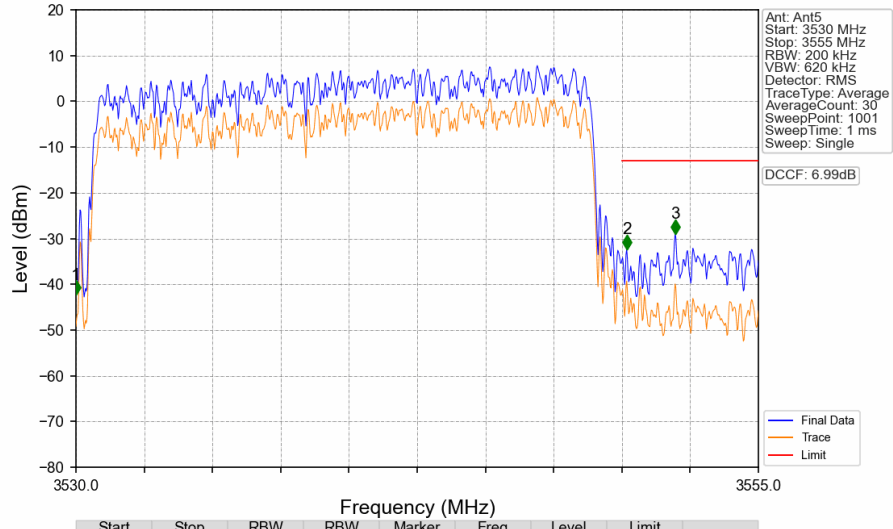
n78e 30kHz SISO NTN 20MHz DFT-s-OFDM QPSK 3540MHz Edge 1RB Right



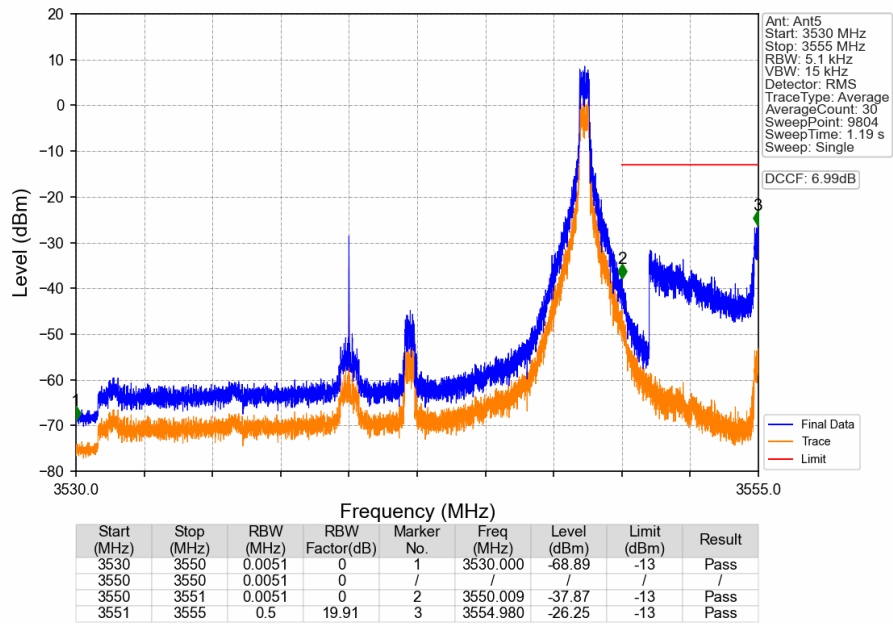
n78e 30kHz SISO NTN 20MHz DFT-s-OFDM QPSK 3540MHz Edge 1RB Right



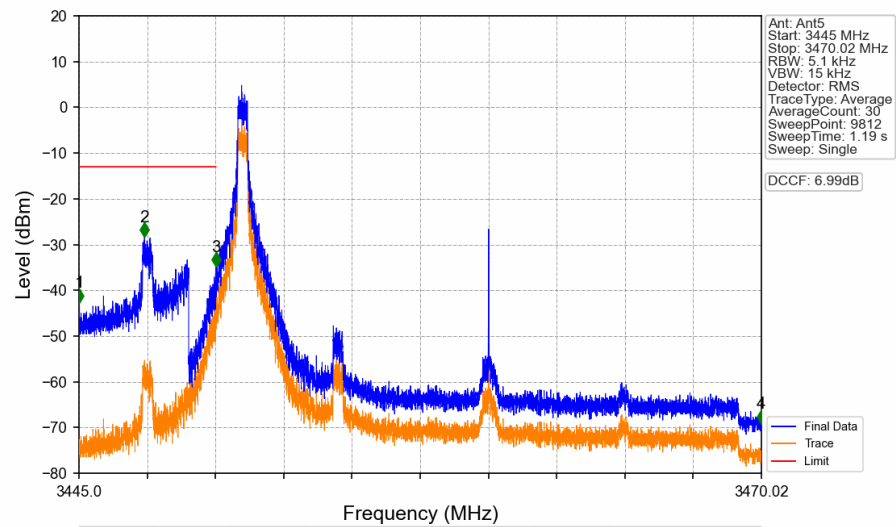
n78e 30kHz SISO NTN 20MHz DFT-s-OFDM QPSK 3540MHz Outer Full



n78e 30kHz SISO NTN 20MHz DFT-s-OFDM QPSK 3540MHz Inner 1RB Right

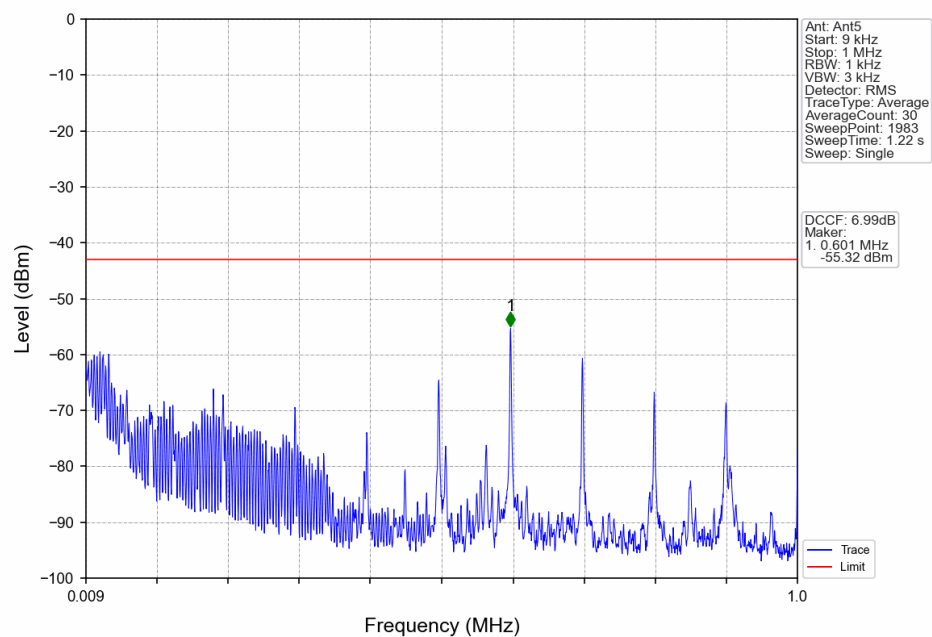


n78e 30kHz SISO NTN 20MHz CP-OFDM QPSK 3460.02MHz Edge 1RB Left

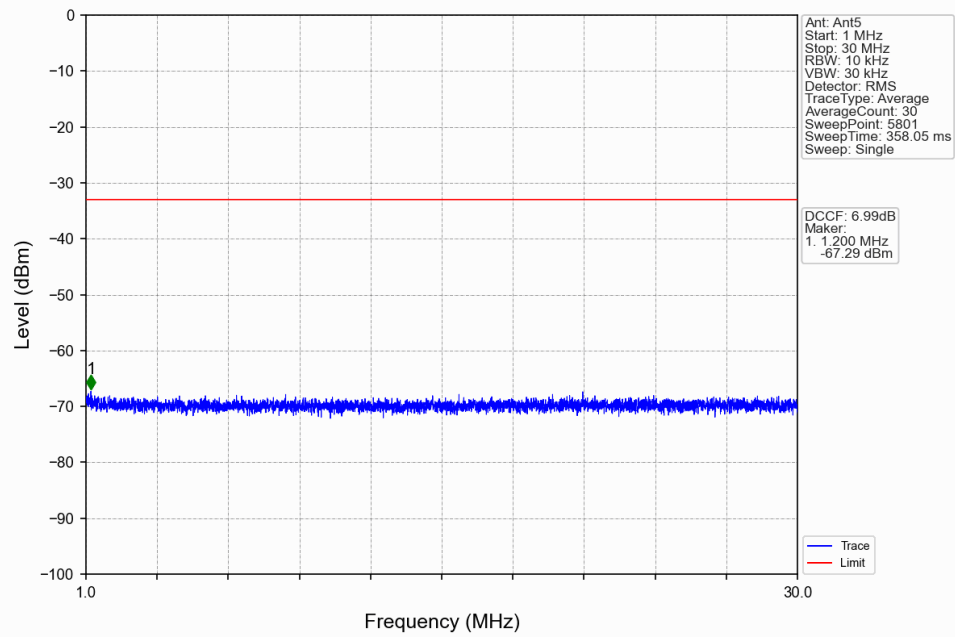


Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3445	3445.02	1	22.92	1	3445.013	-42.73	-13	Pass
3445.02	3449.02	0.5	19.91	2	3447.402	-28.39	-13	Pass
3449.02	3450.02	0.0051	0	3	3450.016	-34.90	-13	Pass
3450.02	3470.02	0.0051	0	4	3470.020	-69.17	-13	Pass

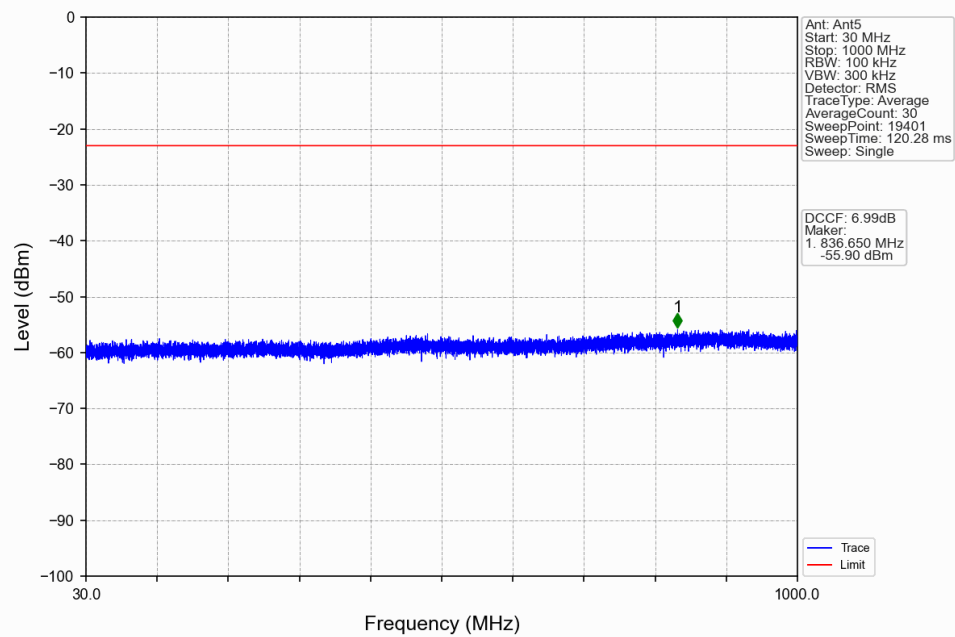
n78e 30kHz SISO NTN 20MHz CP-OFDM QPSK 3460.02MHz Edge 1RB Left



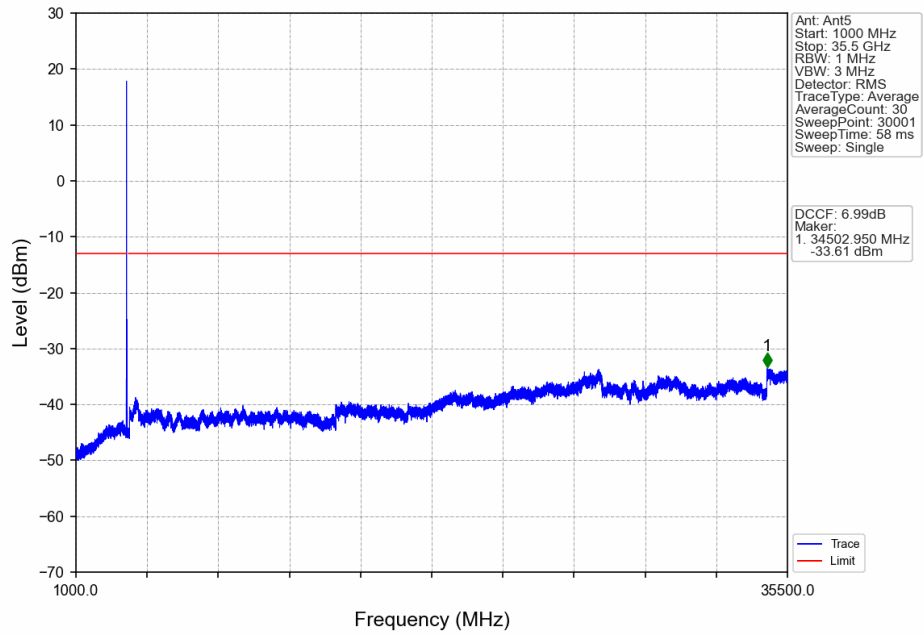
n78e 30kHz SISO NTN 20MHz CP-OFDM QPSK 3460.02MHz Edge 1RB Left



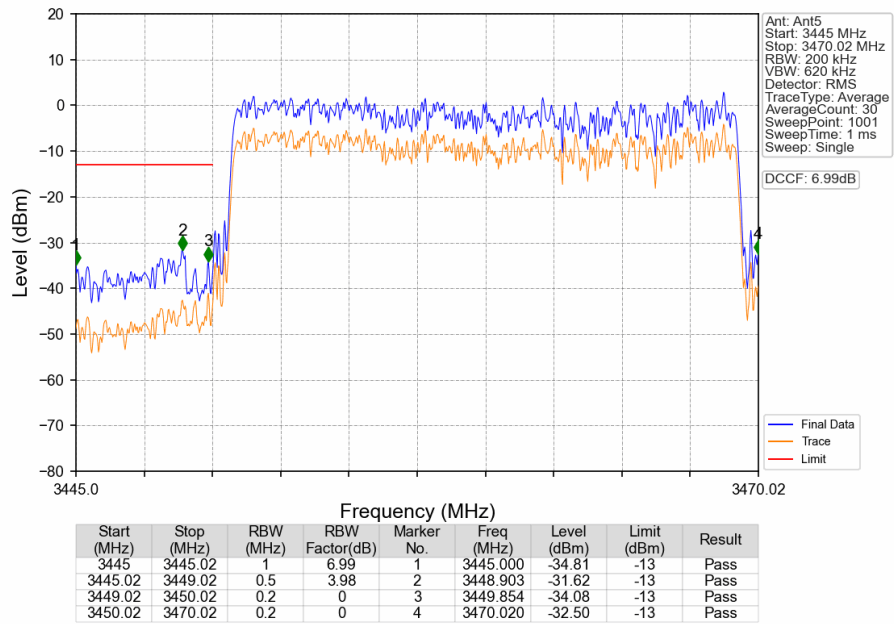
n78e 30kHz SISO NTN 20MHz CP-OFDM QPSK 3460.02MHz Edge 1RB Left



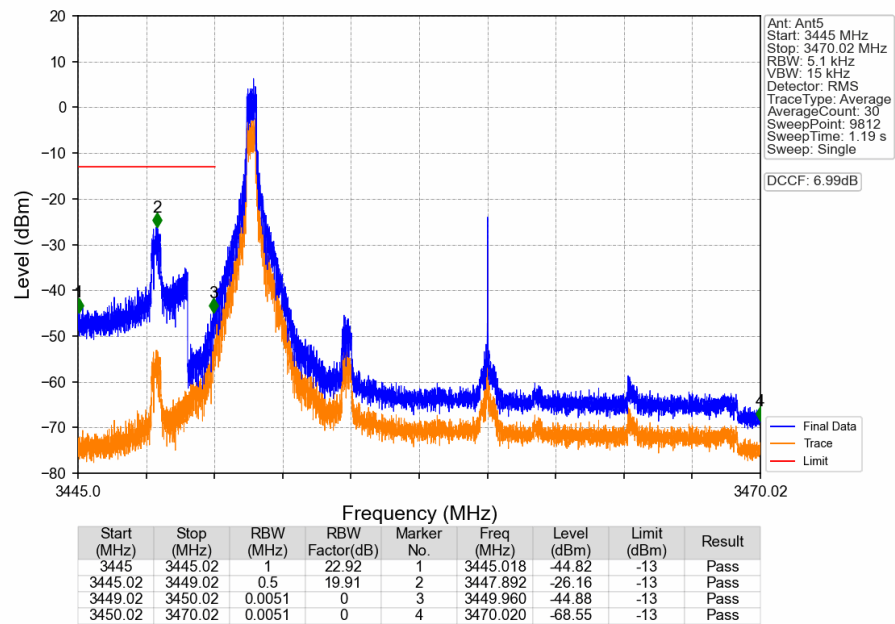
n78e 30kHz SISO NTN 20MHz CP-OFDM QPSK 3460.02MHz Edge 1RB Left



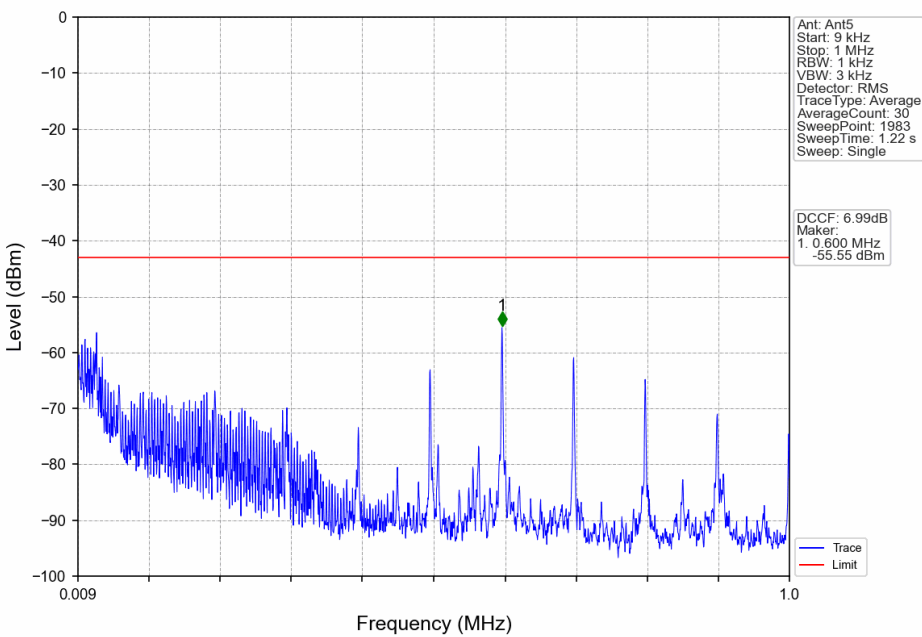
n78e 30kHz SISO NTN 20MHz CP-OFDM QPSK 3460.02MHz Outer Full



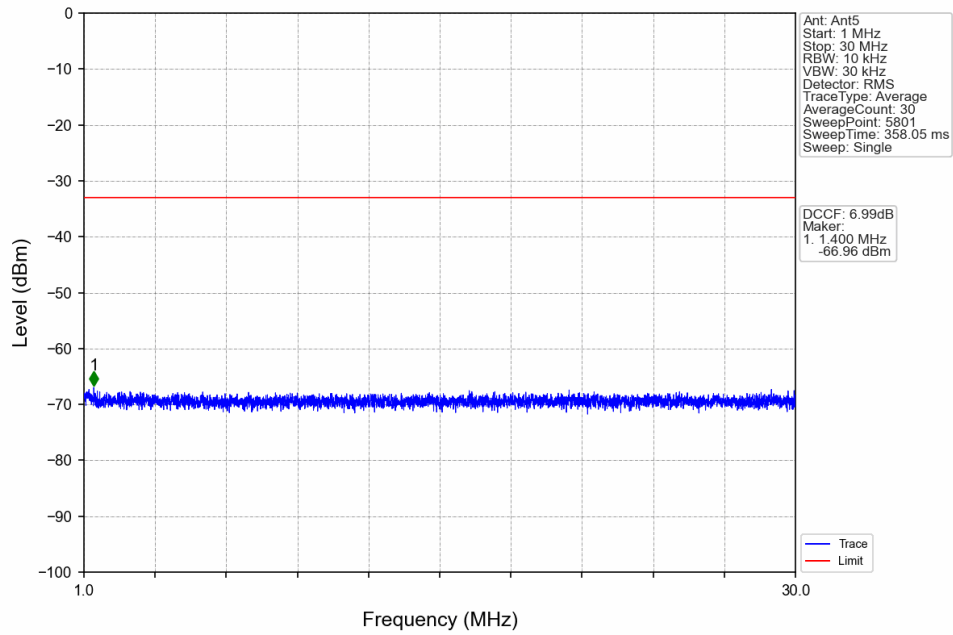
n78e 30kHz SISO NTN 20MHz CP-OFDM QPSK 3460.02MHz Inner 1RB Left



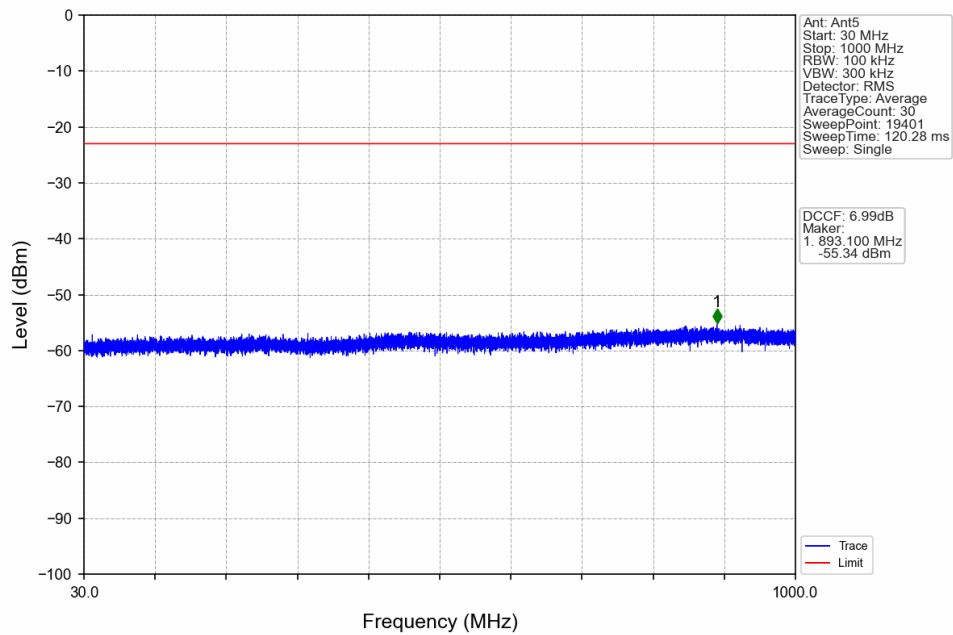
n78e 30kHz SISO NTN 20MHz CP-OFDM QPSK 3500.01MHz Edge 1RB Left



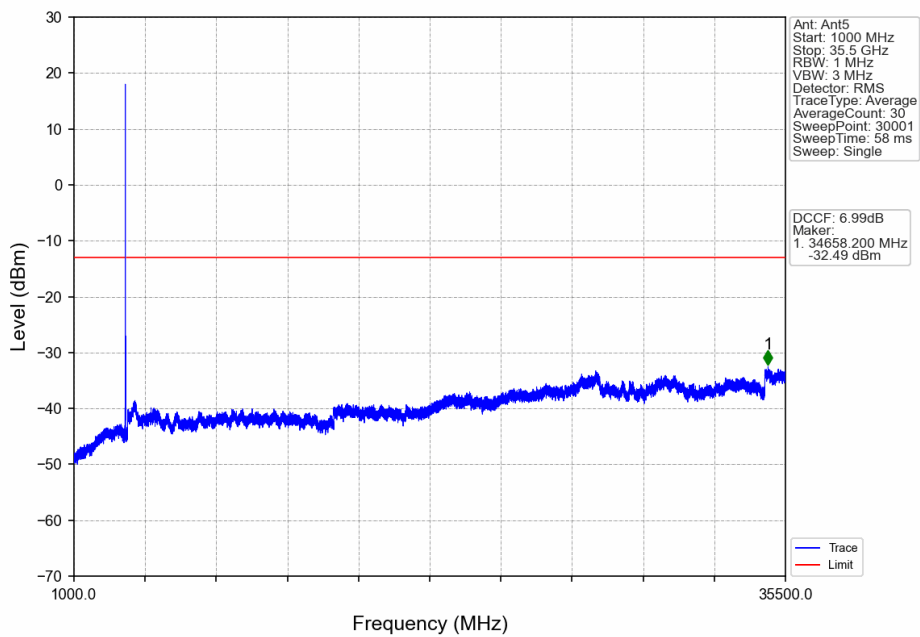
n78e 30kHz SISO NTN 20MHz CP-OFDM QPSK 3500.01MHz Edge 1RB Left



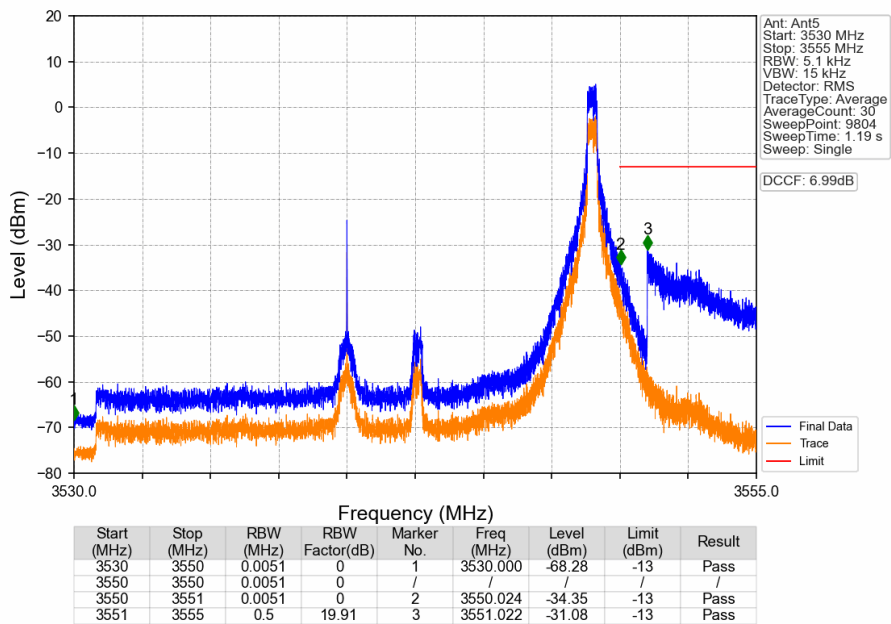
n78e 30kHz SISO NTN 20MHz CP-OFDM QPSK 3500.01MHz Edge 1RB Left



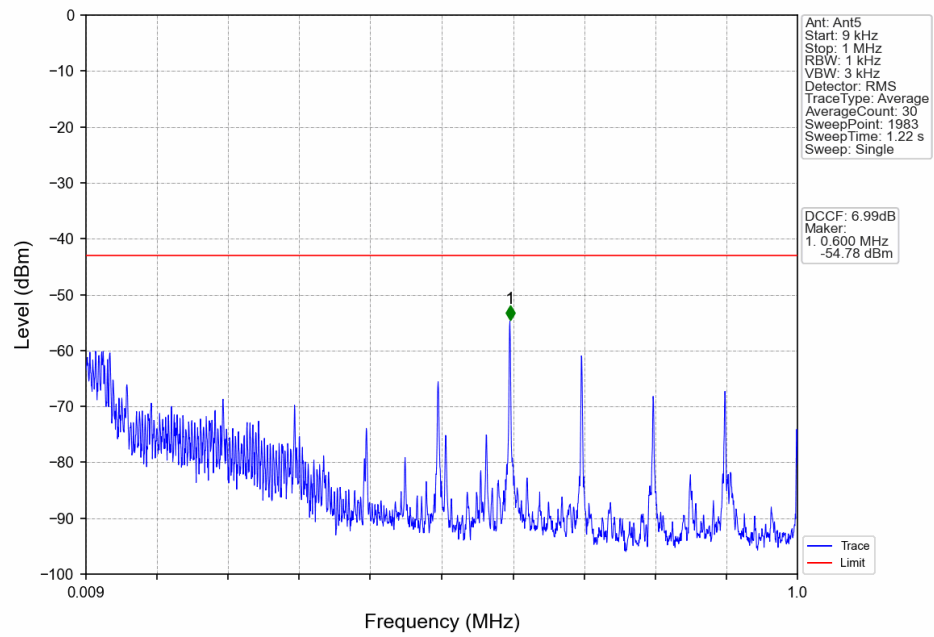
n78e 30kHz SISO NTN 20MHz CP-OFDM QPSK 3500.01MHz Edge 1RB Left



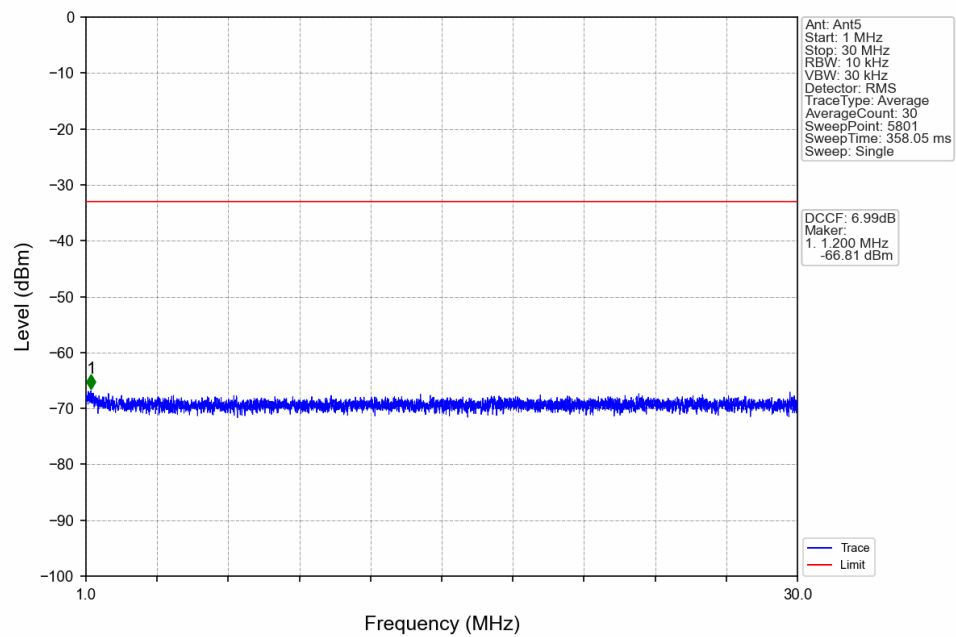
n78e 30kHz SISO NTN 20MHz CP-OFDM QPSK 3540MHz Edge 1RB Right



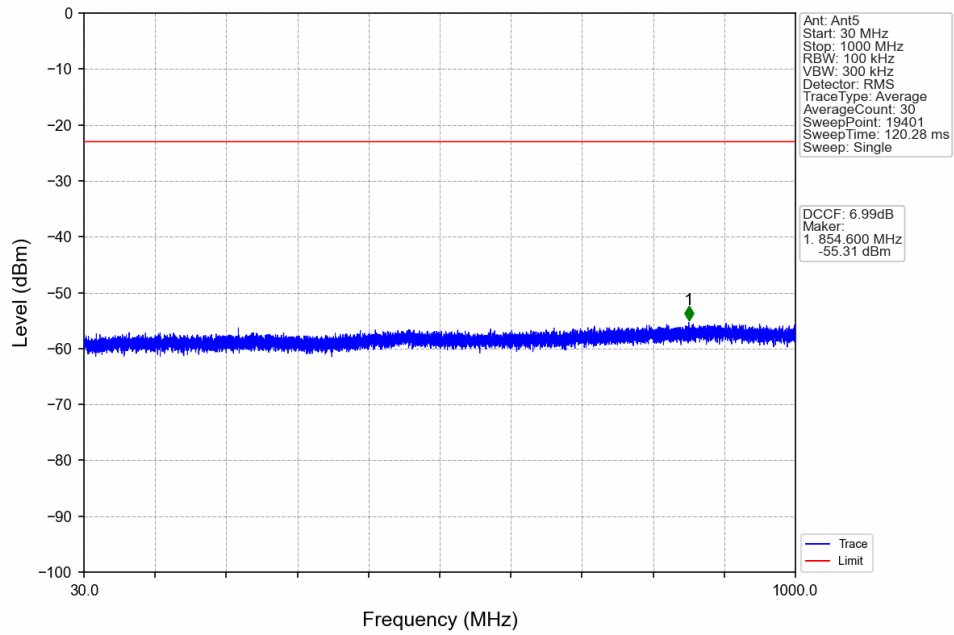
n78e 30kHz SISO NTN 20MHz CP-OFDM QPSK 3540MHz Edge 1RB Right



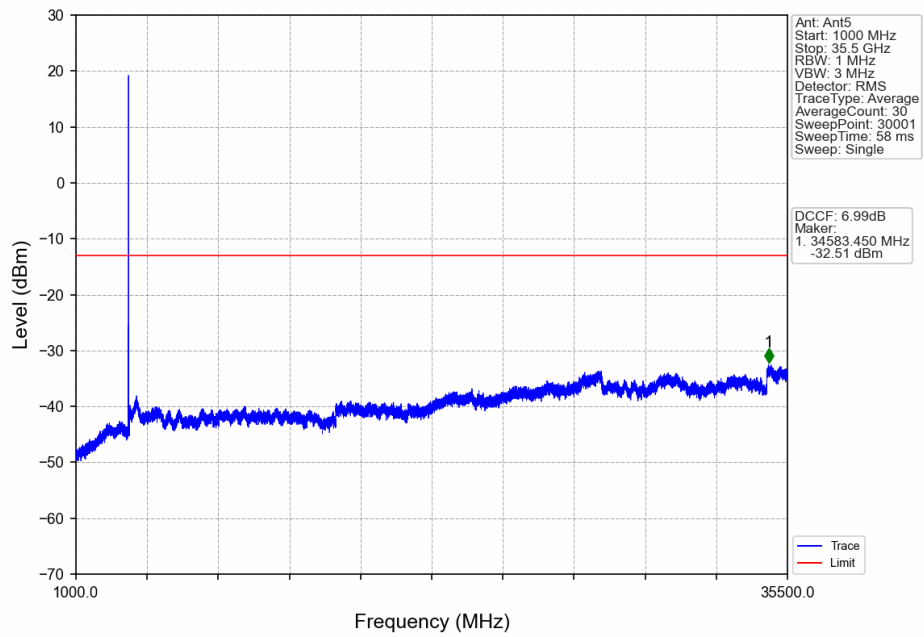
n78e 30kHz SISO NTN 20MHz CP-OFDM QPSK 3540MHz Edge 1RB Right



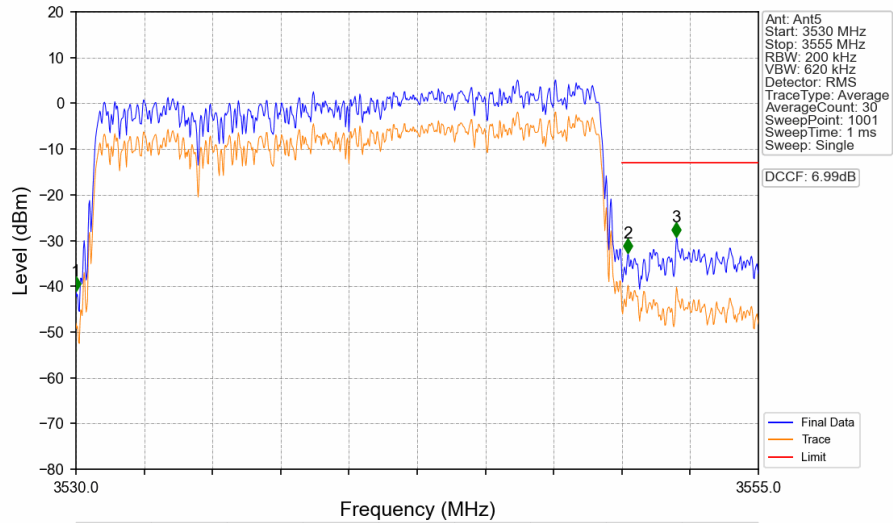
n78e 30kHz SISO NTN 20MHz CP-OFDM QPSK 3540MHz Edge 1RB Right



n78e 30kHz SISO NTN 20MHz CP-OFDM QPSK 3540MHz Edge 1RB Right

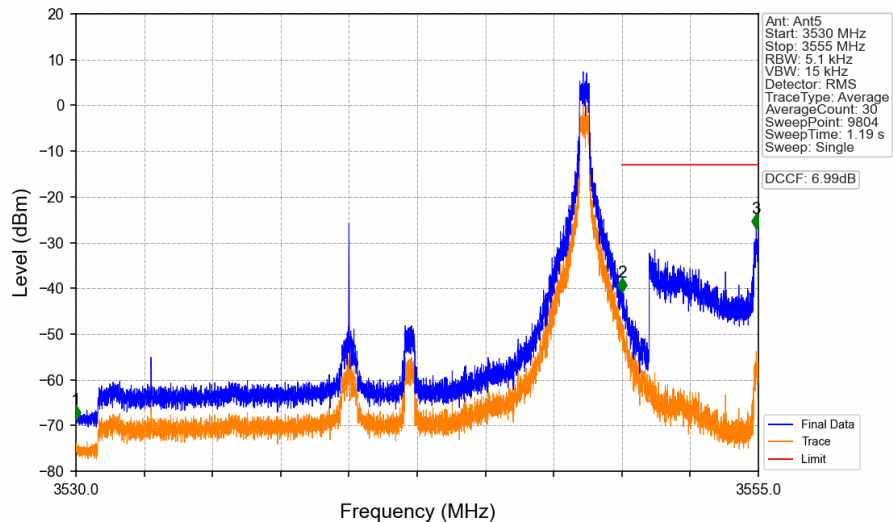


n78e 30kHz SISO NTN 20MHz CP-OFDM QPSK 3540MHz Outer Full



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3530	3550	0.2	0	1	3530.000	-41.08	-13	Pass
3550	3550	0.2	0	/	/	/	/	/
3550	3551	0.2	0	2	3550.225	-32.78	-13	Pass
3551	3555	0.5	3.98	3	3552.000	-29.25	-13	Pass

n78e 30kHz SISO NTN 20MHz CP-OFDM QPSK 3540MHz Inner 1RB Right



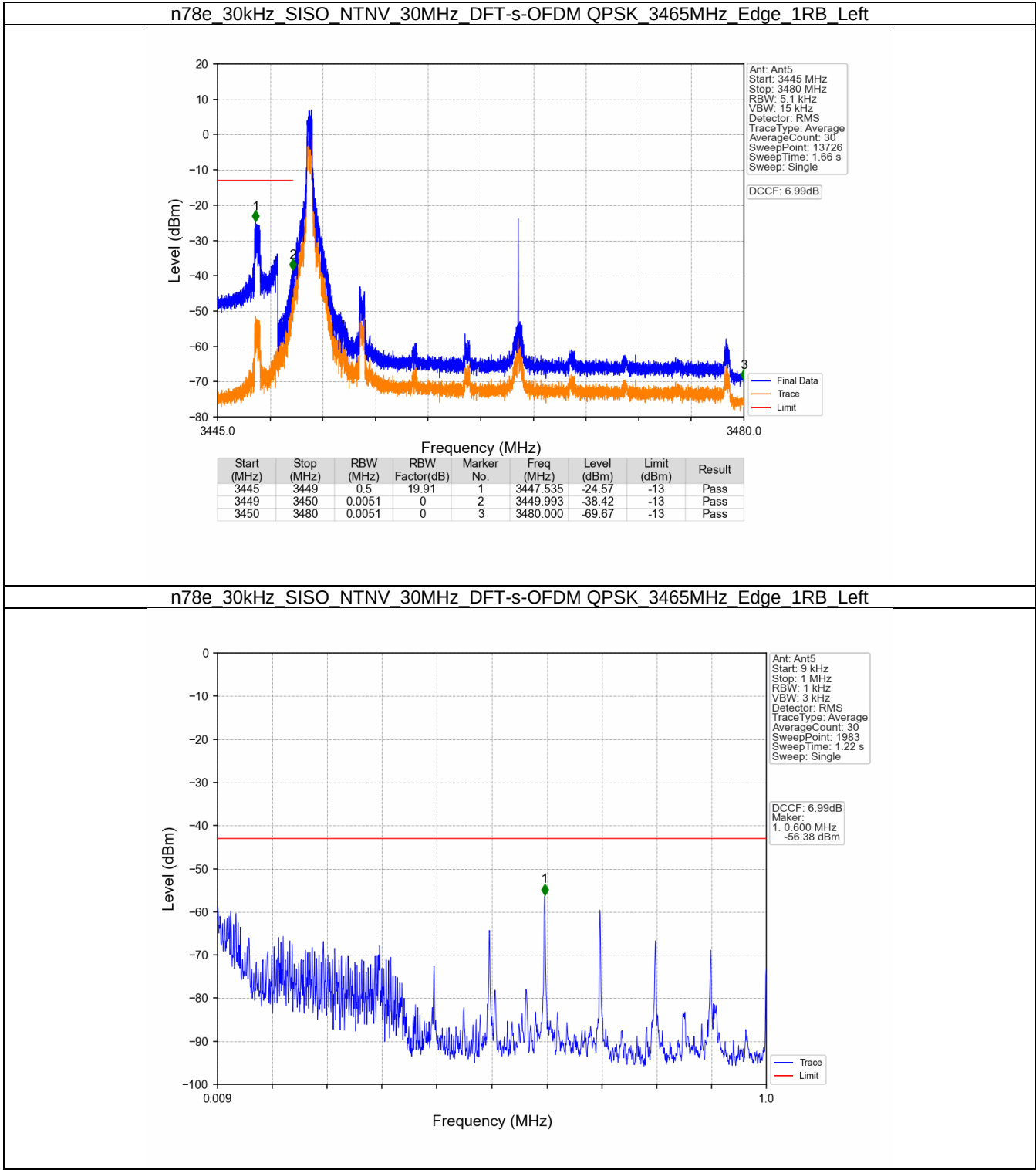
Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3530	3550	0.0051	0	1	3530.000	-68.67	-13	Pass
3550	3550	0.0051	0	/	/	/	/	/
3550	3551	0.0051	0	2	3550.014	-40.86	-13	Pass
3551	3555	0.5	19.91	3	3554.918	-26.93	-13	Pass

1.2 30k_SISO_30MHz_NTNV

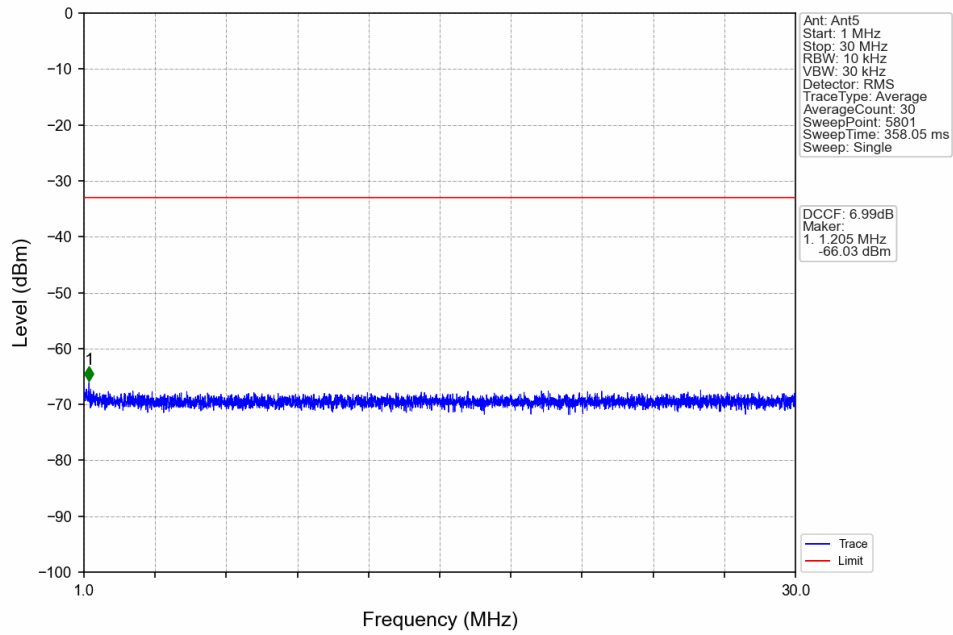
1.2.1 Test Result

5G NR n78e SCS=30kHz SISO 30MHz NTNv							
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission				Verdict
			Ant5	Ant2	Sum	Limit	
DFT-s-OFDM QPSK	3465	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
		Inner_1RB_Left	Refer To Test Graph				Pass
	3500.01	Edge_1RB_Left	Refer To Test Graph				Pass
	3534.99	Edge_1RB_Right	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
		Inner_1RB_Right	Refer To Test Graph				Pass
CP-OFDM QPSK	3465	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
		Inner_1RB_Left	Refer To Test Graph				Pass
	3500.01	Edge_1RB_Left	Refer To Test Graph				Pass
	3534.99	Edge_1RB_Right	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
		Inner_1RB_Right	Refer To Test Graph				Pass

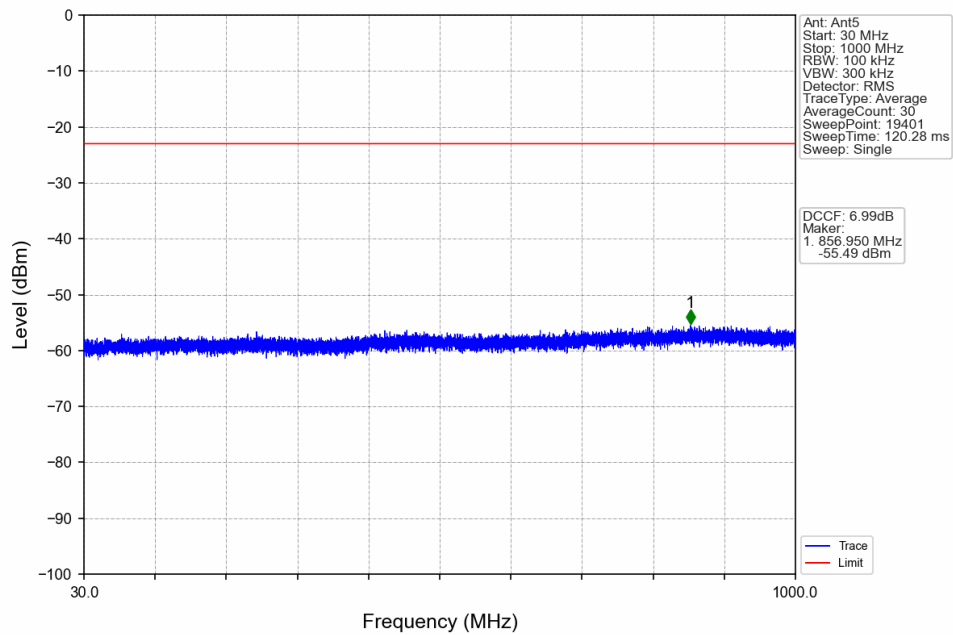
1.2.2 Test Graph



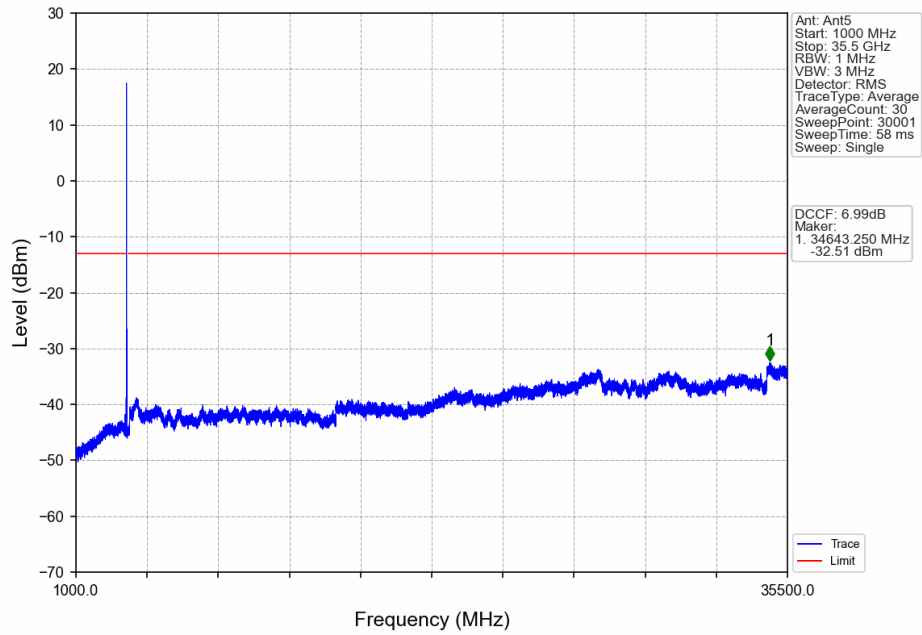
n78e 30kHz SISO NTN 30MHz DFT-s-OFDM QPSK 3465MHz Edge 1RB Left



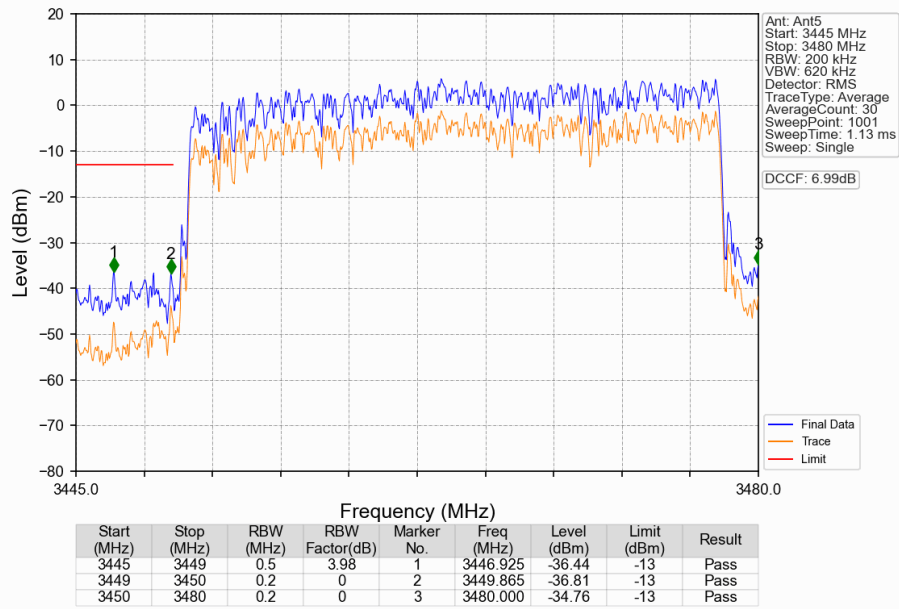
n78e 30kHz SISO NTN 30MHz DFT-s-OFDM QPSK 3465MHz Edge 1RB Left



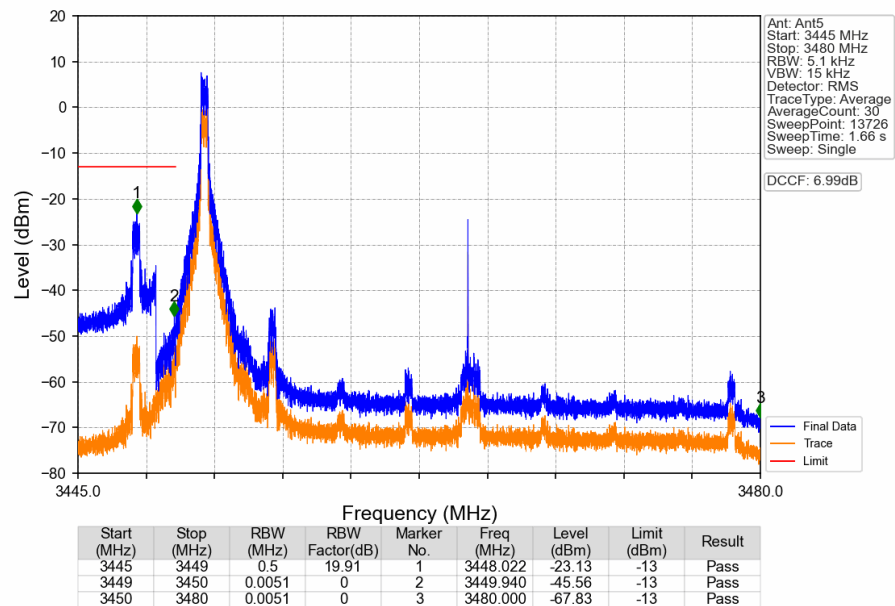
n78e 30kHz SISO NTN 30MHz DFT-s-OFDM QPSK 3465MHz Edge 1RB Left



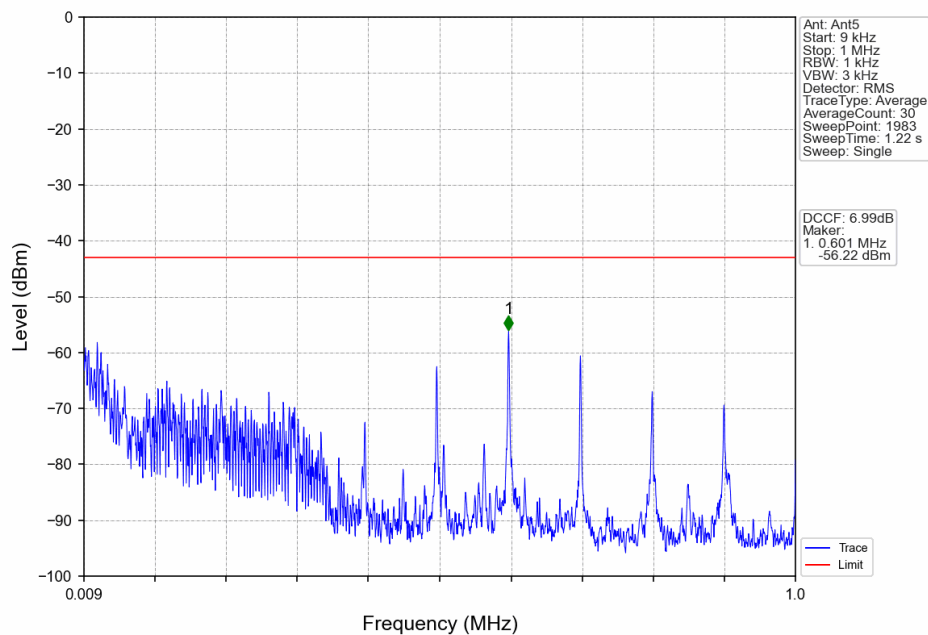
n78e 30kHz SISO NTN 30MHz DFT-s-OFDM QPSK 3465MHz Outer Full



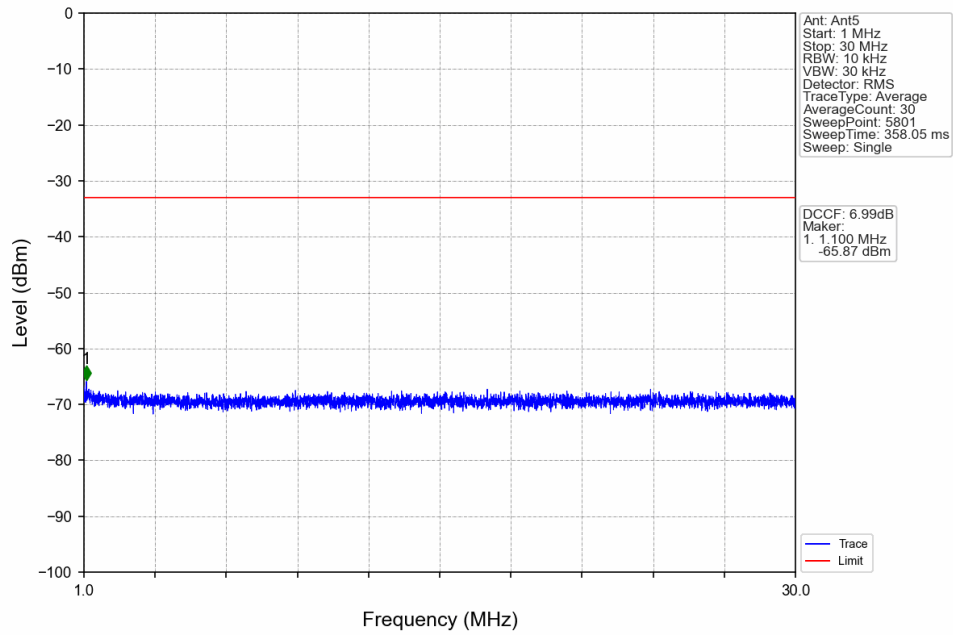
n78e 30kHz SISO NTN 30MHz DFT-s-OFDM QPSK 3465MHz Inner 1RB Left



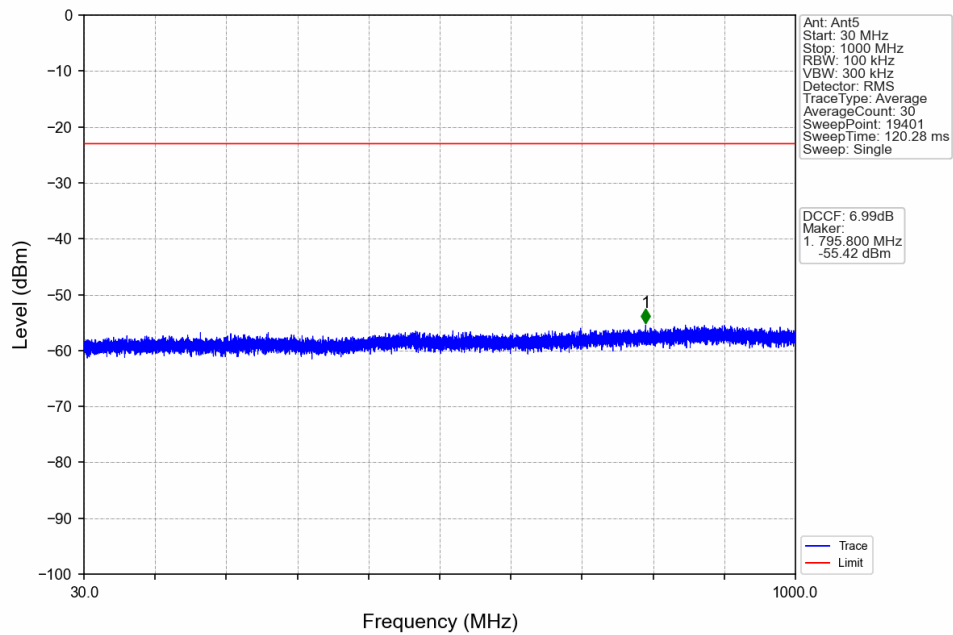
n78e 30kHz SISO NTN 30MHz DFT-s-OFDM QPSK 3500.01MHz Edge 1RB Left



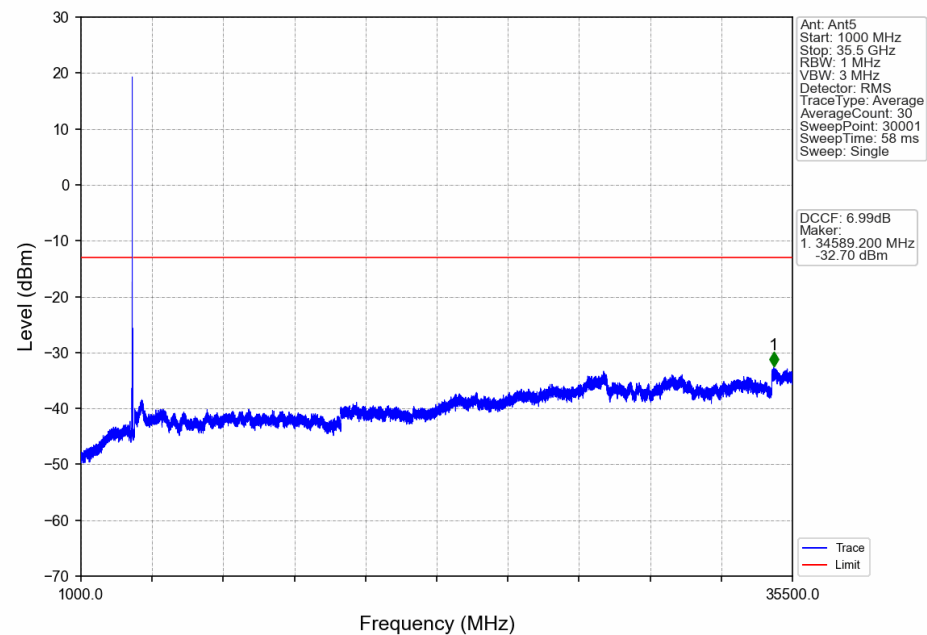
n78e 30kHz SISO NTN 30MHz DFT-s-OFDM QPSK 3500.01MHz Edge 1RB Left



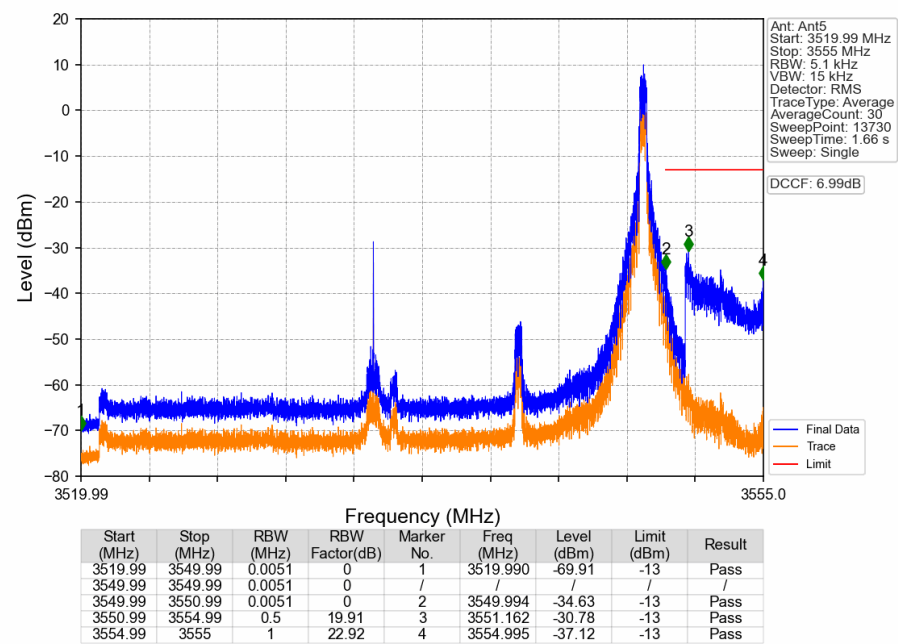
n78e 30kHz SISO NTN 30MHz DFT-s-OFDM QPSK 3500.01MHz Edge 1RB Left



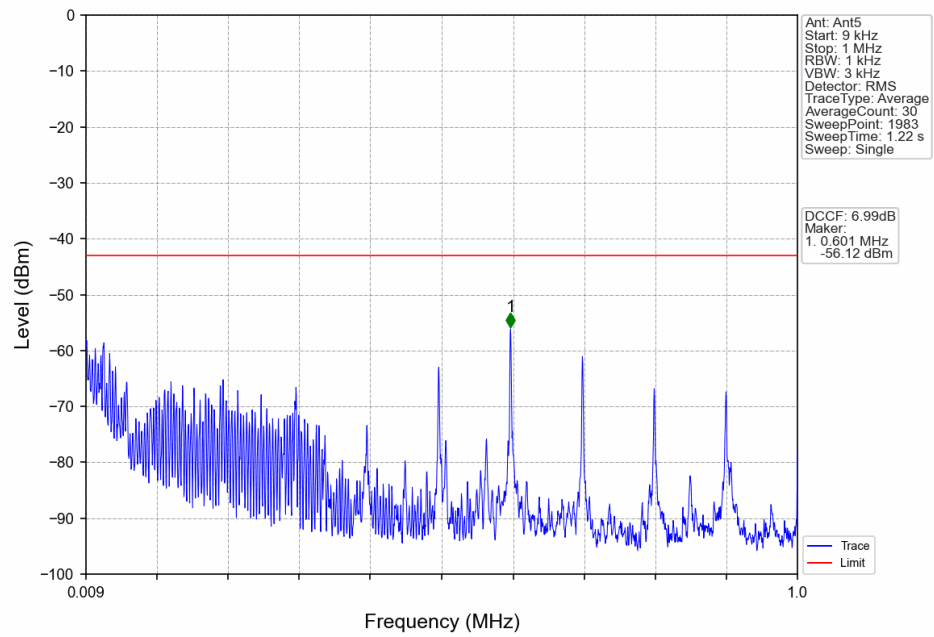
n78e 30kHz SISO NTN 30MHz DFT-s-OFDM QPSK 3500.01MHz Edge 1RB Left



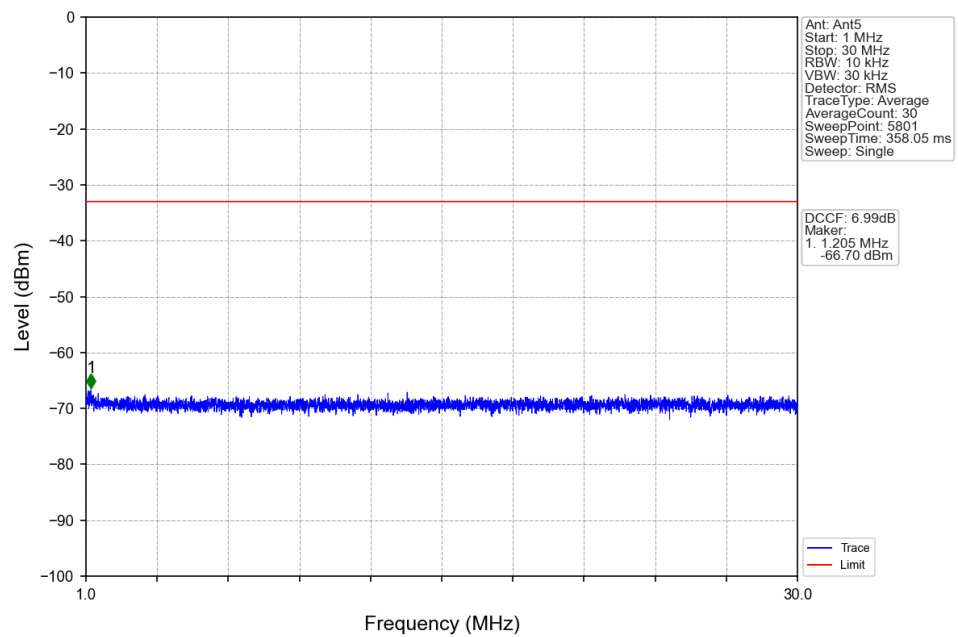
n78e 30kHz SISO NTN 30MHz DFT-s-OFDM QPSK 3534.99MHz Edge 1RB Right



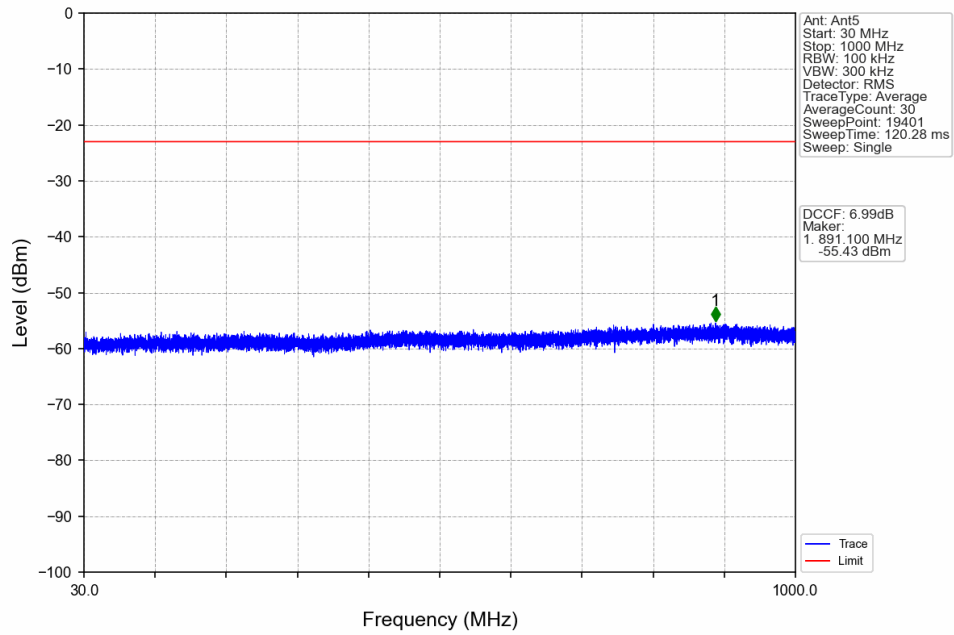
n78e 30kHz SISO NTN 30MHz DFT-s-OFDM QPSK 3534.99MHz Edge 1RB Right



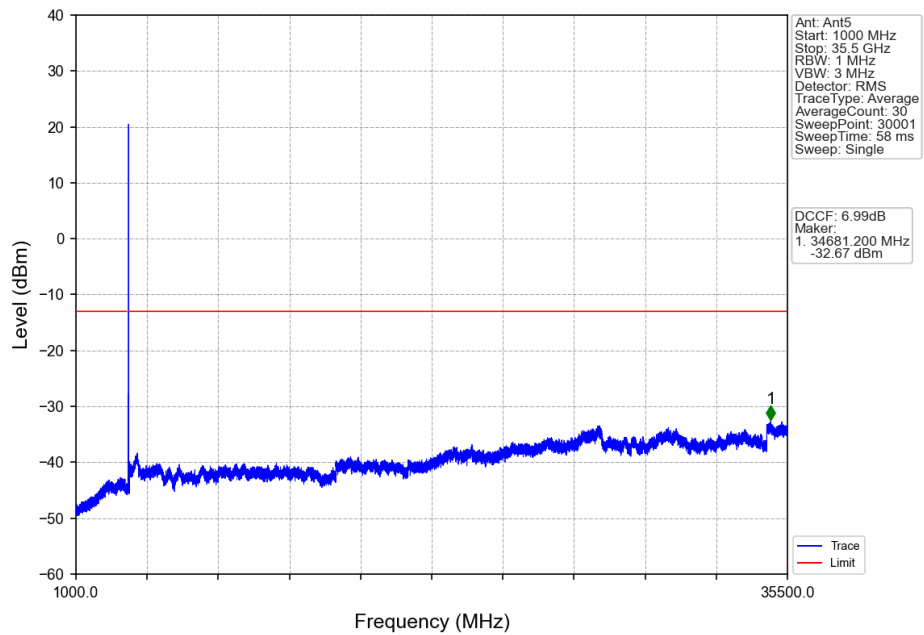
n78e 30kHz SISO NTN 30MHz DFT-s-OFDM QPSK 3534.99MHz Edge 1RB Right



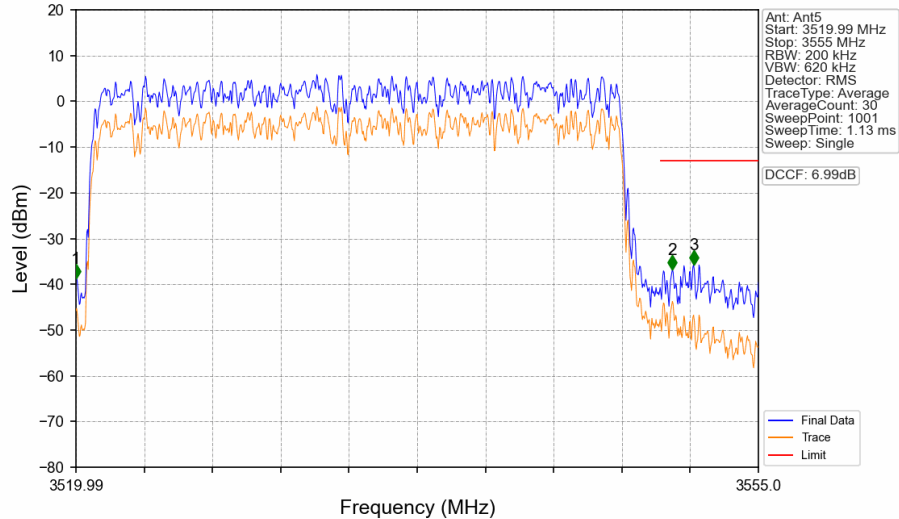
n78e 30kHz SISO NTN 30MHz DFT-s-OFDM QPSK 3534.99MHz Edge 1RB Right



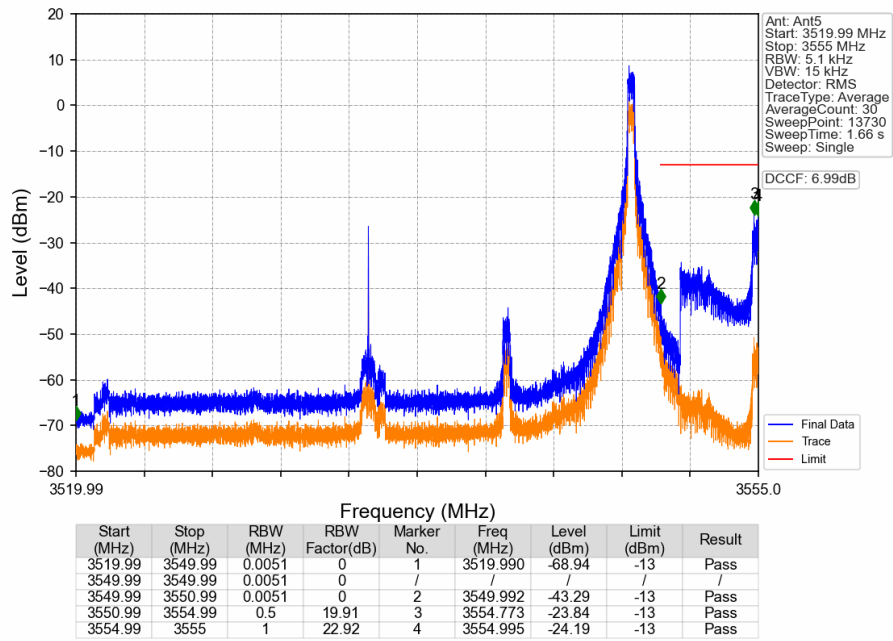
n78e 30kHz SISO NTN 30MHz DFT-s-OFDM QPSK 3534.99MHz Edge 1RB Right



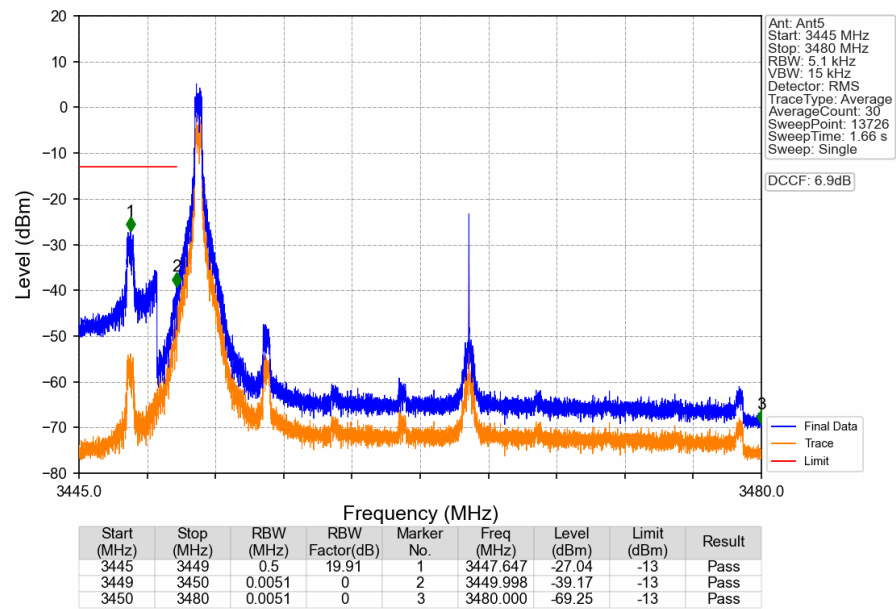
n78e 30kHz SISO NTN 30MHz DFT-s-OFDM QPSK 3534.99MHz Outer Full



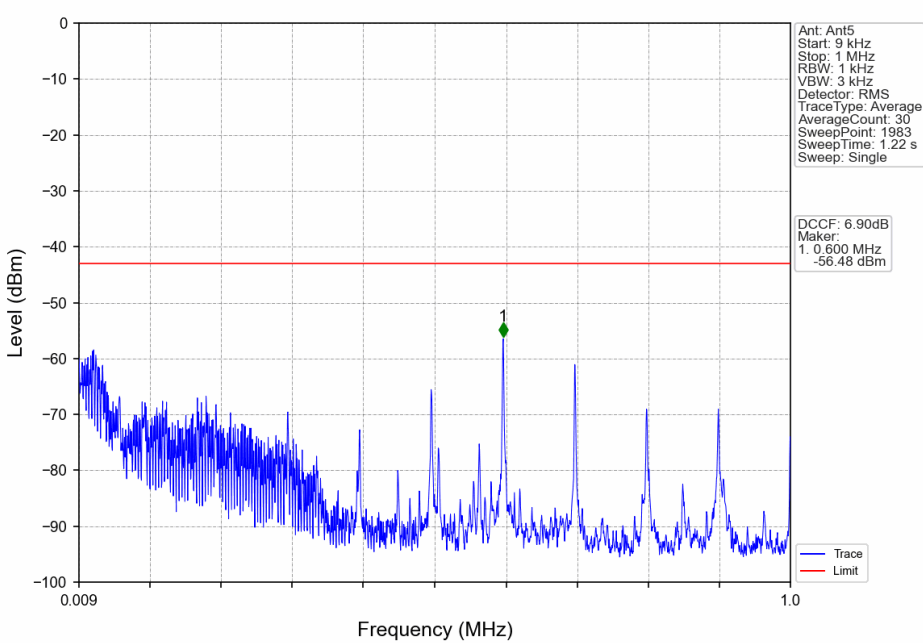
n78e 30kHz SISO NTN 30MHz DFT-s-OFDM QPSK 3534.99MHz Inner 1RB Right



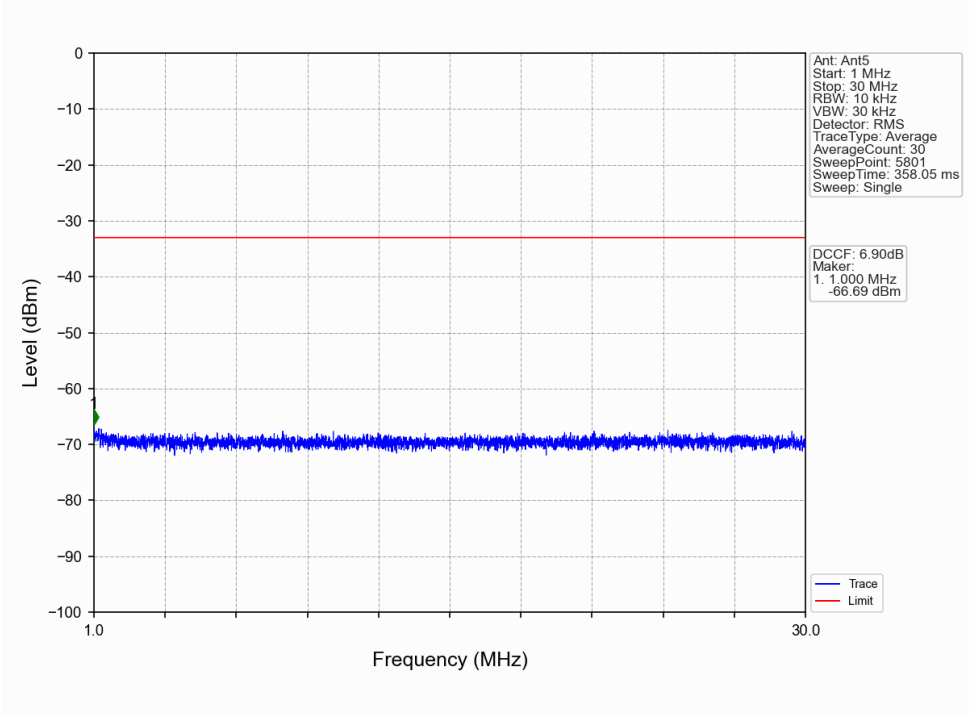
n78e 30kHz SISO NTN 30MHz CP-OFDM QPSK 3465MHz Edge 1RB Left



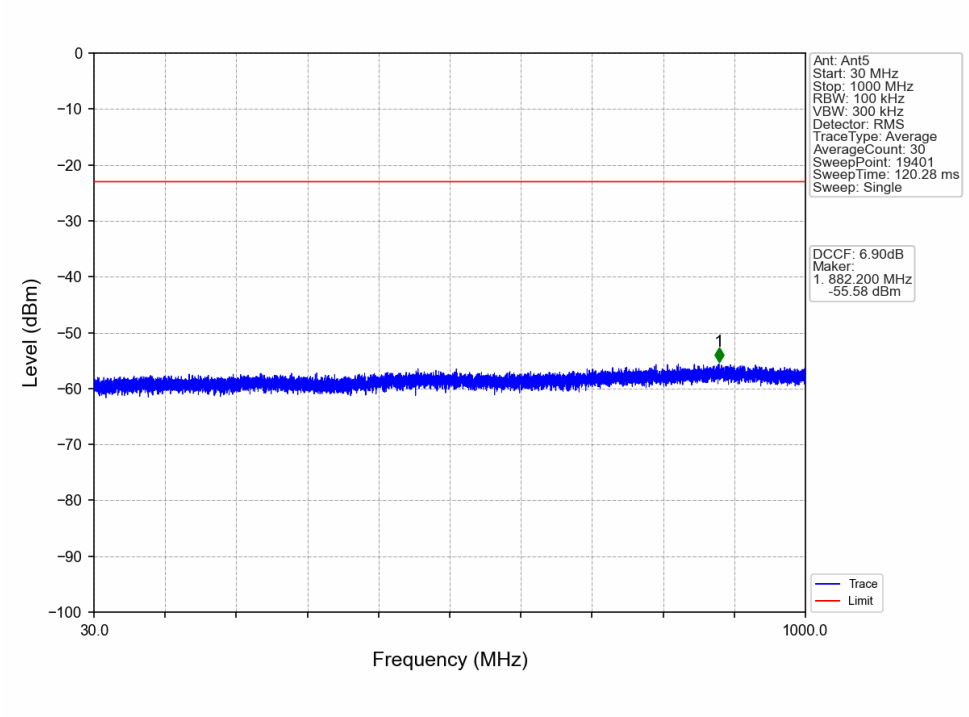
n78e 30kHz SISO NTN 30MHz CP-OFDM QPSK 3465MHz Edge 1RB Left



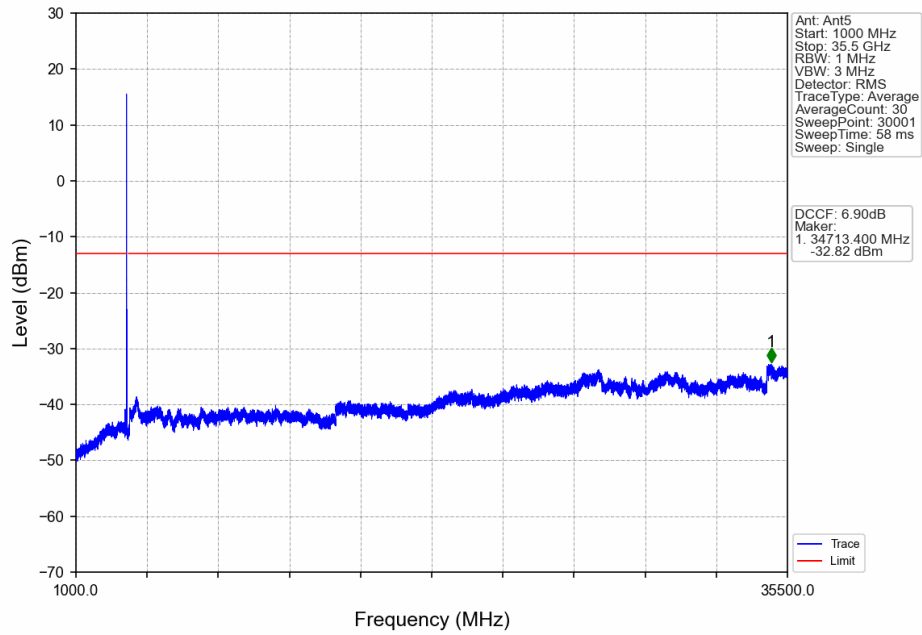
n78e 30kHz SISO NTN 30MHz CP-OFDM QPSK 3465MHz Edge 1RB Left



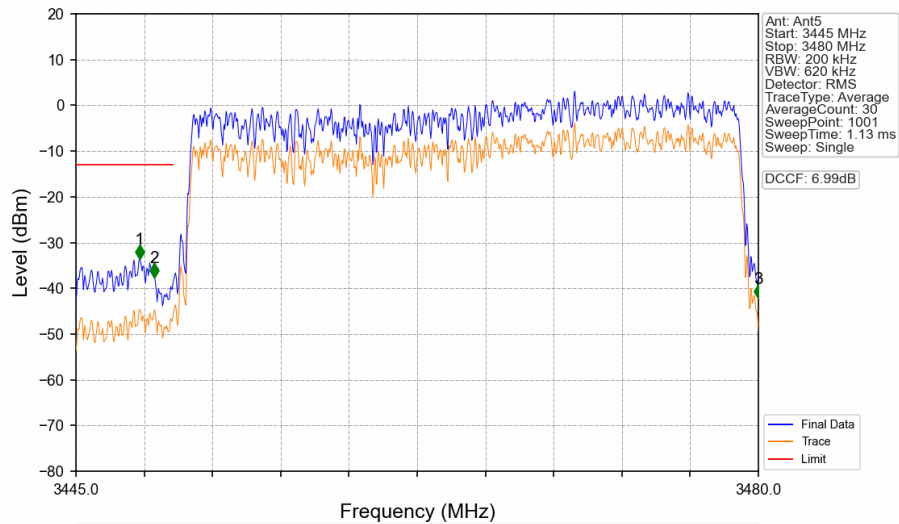
n78e 30kHz SISO NTN 30MHz CP-OFDM QPSK 3465MHz Edge 1RB Left



n78e 30kHz SISO NTN 30MHz CP-OFDM QPSK 3465MHz Edge 1RB Left

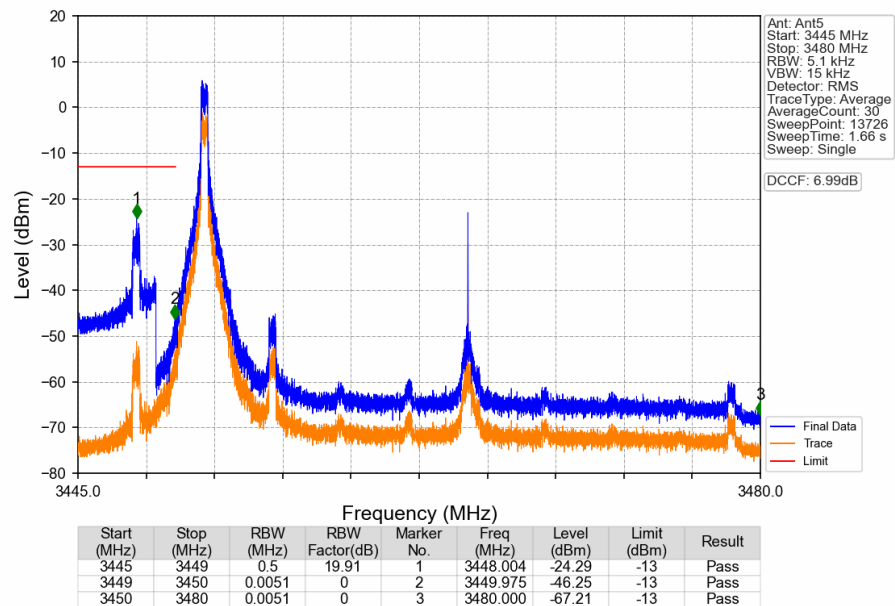


n78e 30kHz SISO NTN 30MHz CP-OFDM QPSK 3465MHz Outer Full

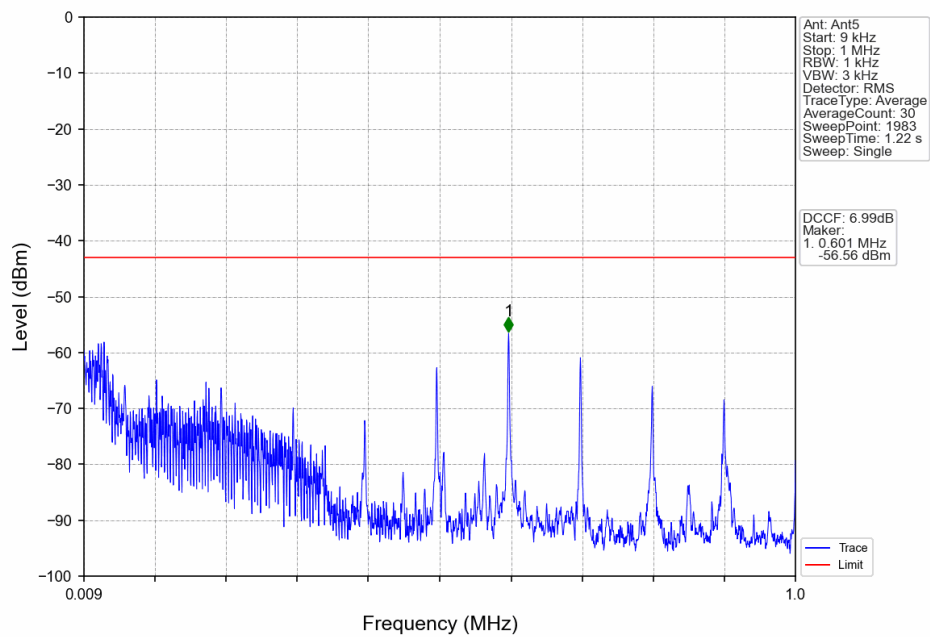


Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3445	3449	0.5	3.98	1	3448.255	-33.63	-13	Pass
3449	3450	0.2	0	2	3449.025	-37.68	-13	Pass
3450	3480	0.2	0	3	3480.000	-42.24	-13	Pass

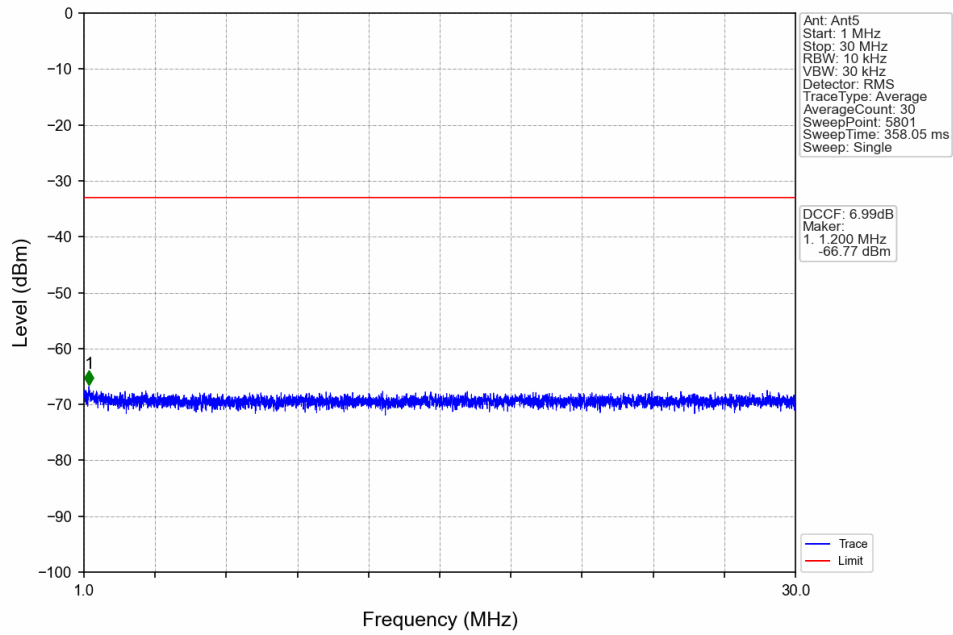
n78e 30kHz SISO NTN 30MHz CP-OFDM QPSK 3465MHz Inner 1RB Left



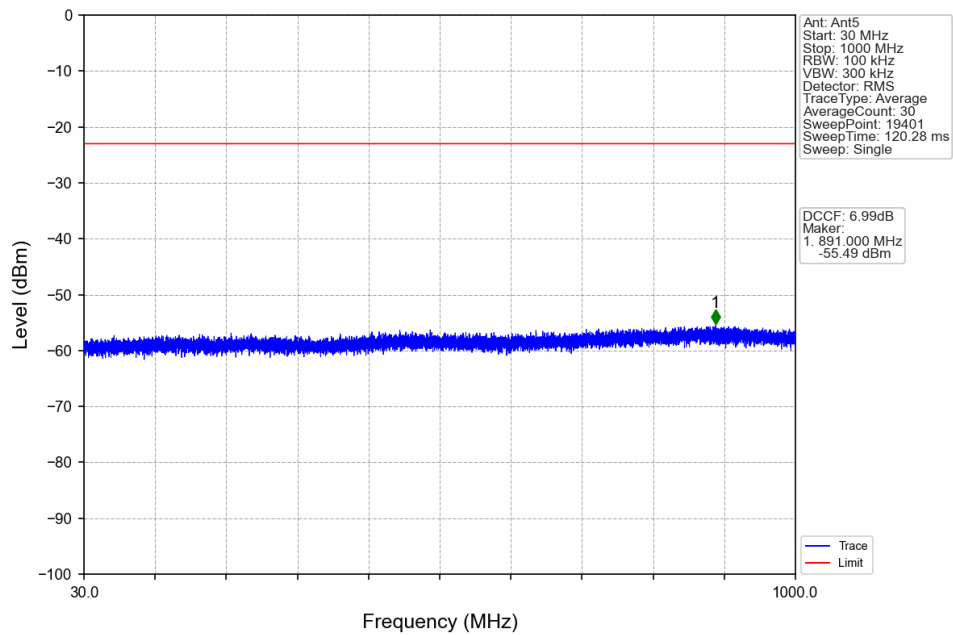
n78e 30kHz SISO NTN 30MHz CP-OFDM QPSK 3500.01MHz Edge 1RB Left



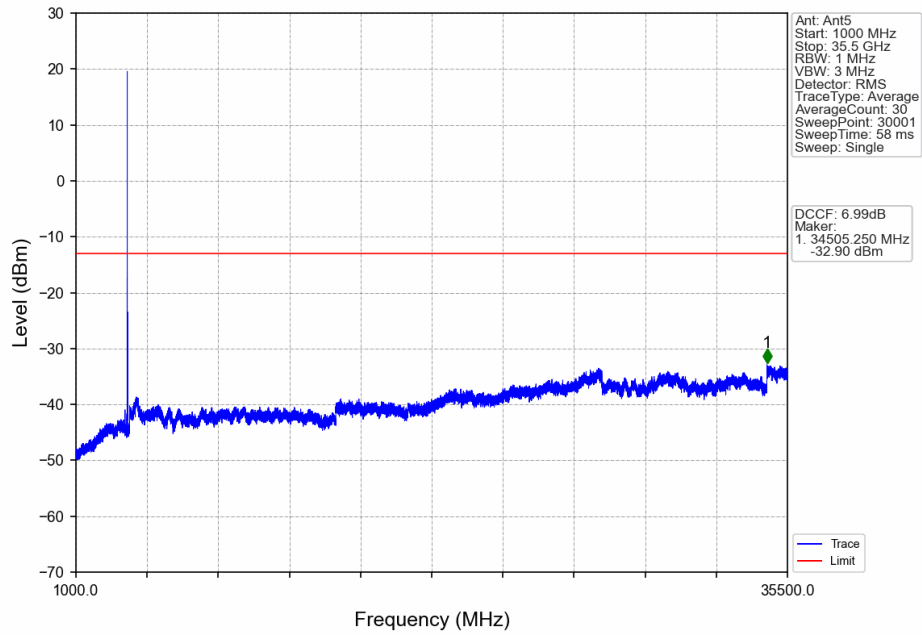
n78e 30kHz SISO NTN 30MHz CP-OFDM QPSK 3500.01MHz Edge 1RB Left



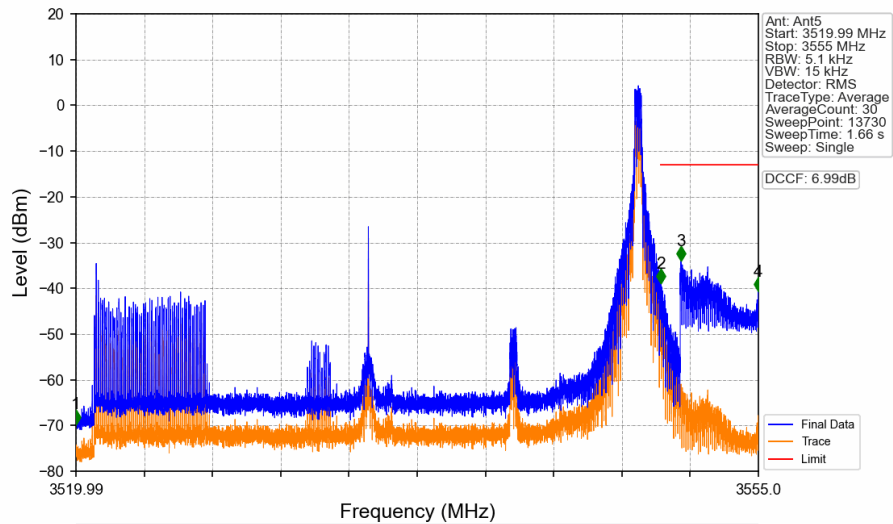
n78e 30kHz SISO NTN 30MHz CP-OFDM QPSK 3500.01MHz Edge 1RB Left



n78e 30kHz SISO NTN 30MHz CP-OFDM QPSK 3500.01MHz Edge 1RB Left

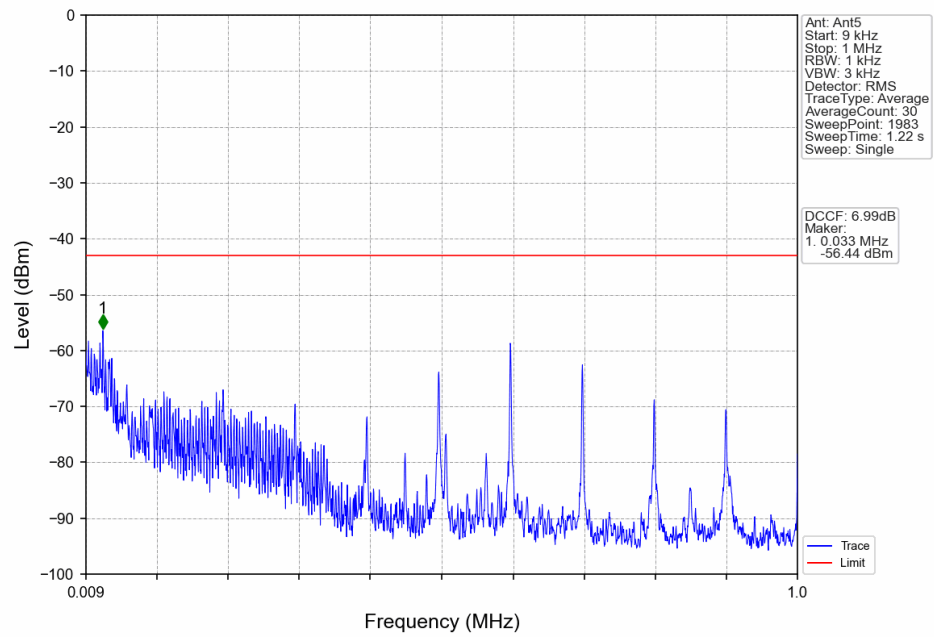


n78e 30kHz SISO NTN 30MHz CP-OFDM QPSK 3534.99MHz Edge 1RB Right

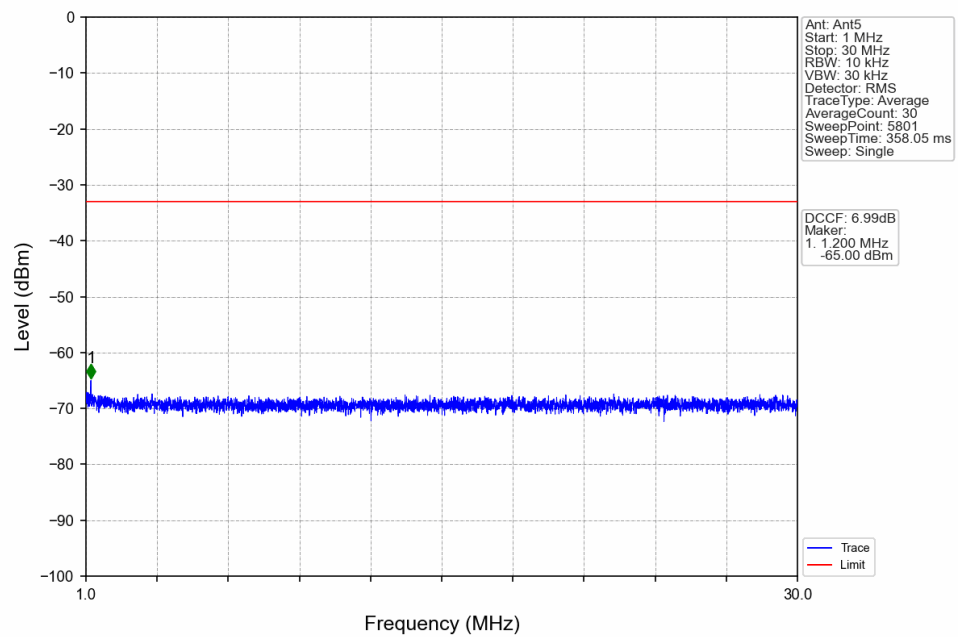


Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3519.99	3549.99	0.0051	0	1	3519.990	-69.68	-13	Pass
3549.99	3549.99	0.0051	0	/	/	/	/	/
3549.99	3550.99	0.0051	0	2	3549.994	-38.91	-13	Pass
3550.99	3554.99	0.5	19.91	3	3551.027	-34.04	-13	Pass
3554.99	3555	1	22.92	4	3554.992	-40.68	-13	Pass

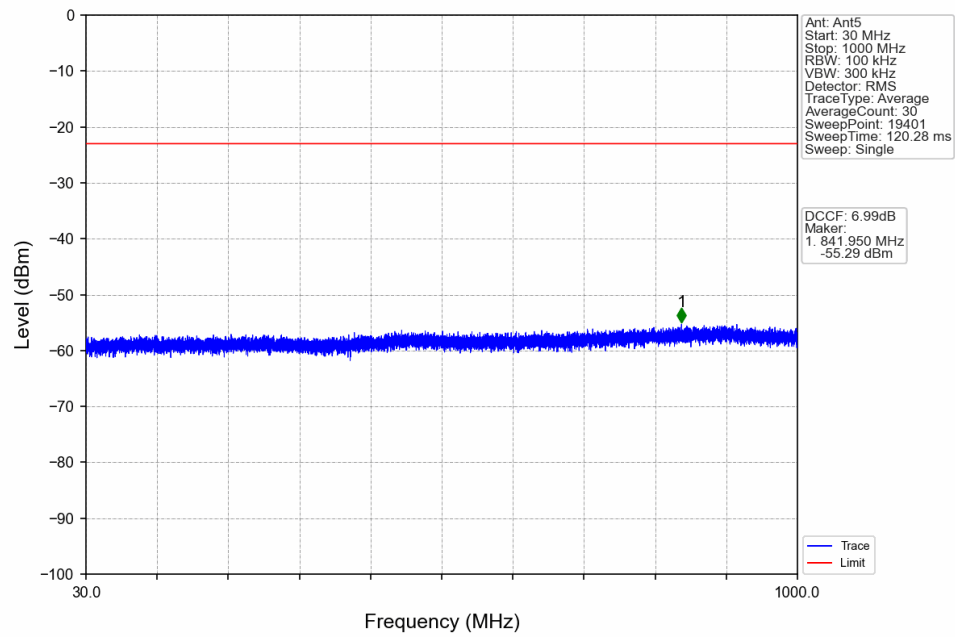
n78e 30kHz SISO NTN 30MHz CP-OFDM QPSK 3534.99MHz Edge 1RB Right



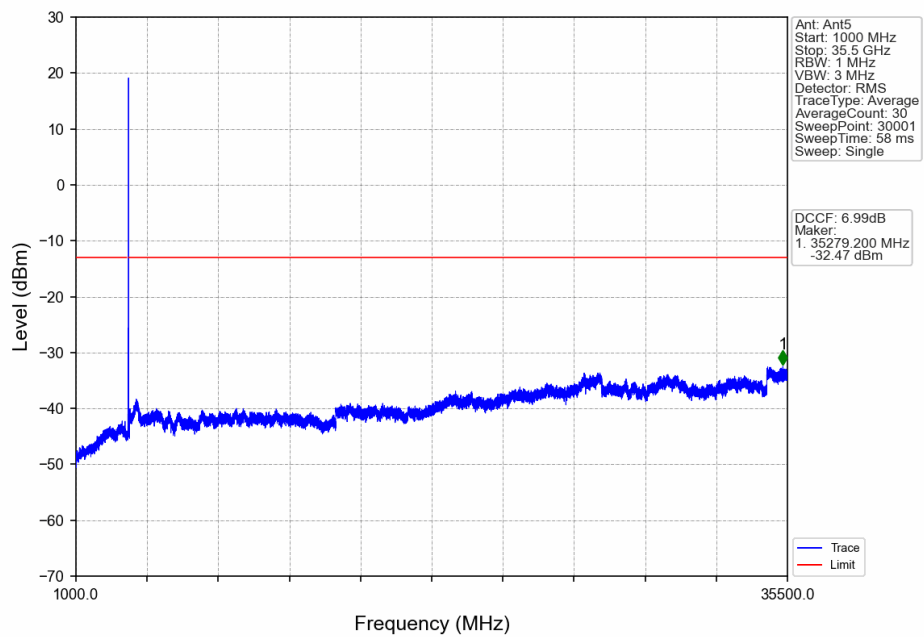
n78e 30kHz SISO NTN 30MHz CP-OFDM QPSK 3534.99MHz Edge 1RB Right



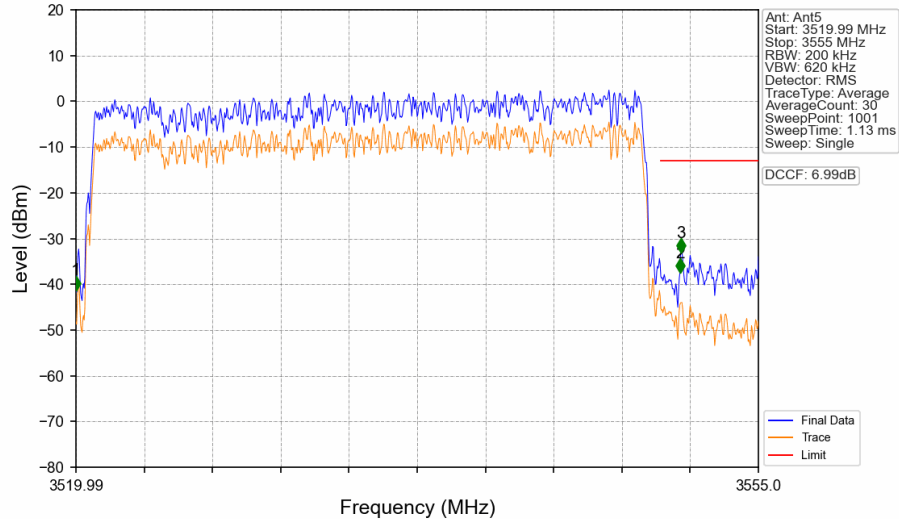
n78e 30kHz SISO NTN 30MHz CP-OFDM QPSK 3534.99MHz Edge 1RB Right



n78e 30kHz SISO NTN 30MHz CP-OFDM QPSK 3534.99MHz Edge 1RB Right

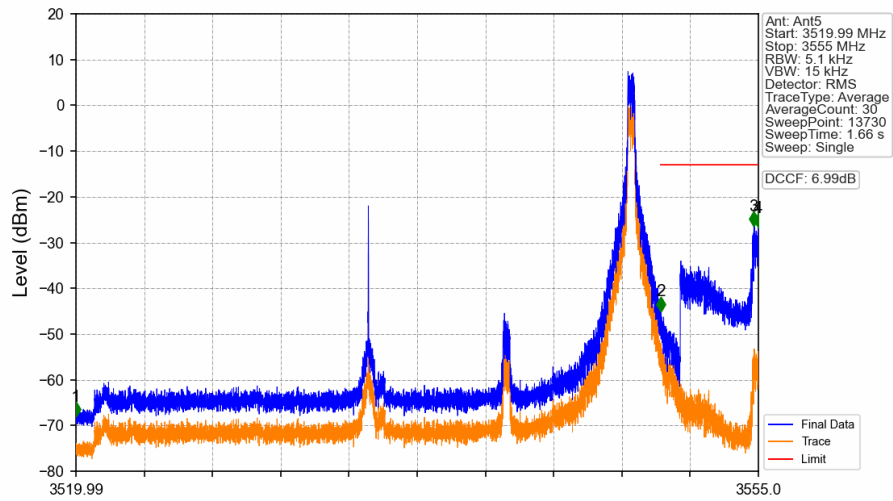


n78e 30kHz SISO NTN 30MHz CP-OFDM QPSK 3534.99MHz Outer Full



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3519.99	3549.99	0.2	0	1	3519.990	-41.30	-13	Pass
3549.99	3549.99	0.2	0	/	/	/	/	/
3549.99	3550.99	0.2	0	2	3550.974	-37.46	-13	Pass
3550.99	3554.99	0.5	3.98	3	3551.044	-33.04	-13	Pass

n78e 30kHz SISO NTN 30MHz CP-OFDM QPSK 3534.99MHz Inner 1RB Right



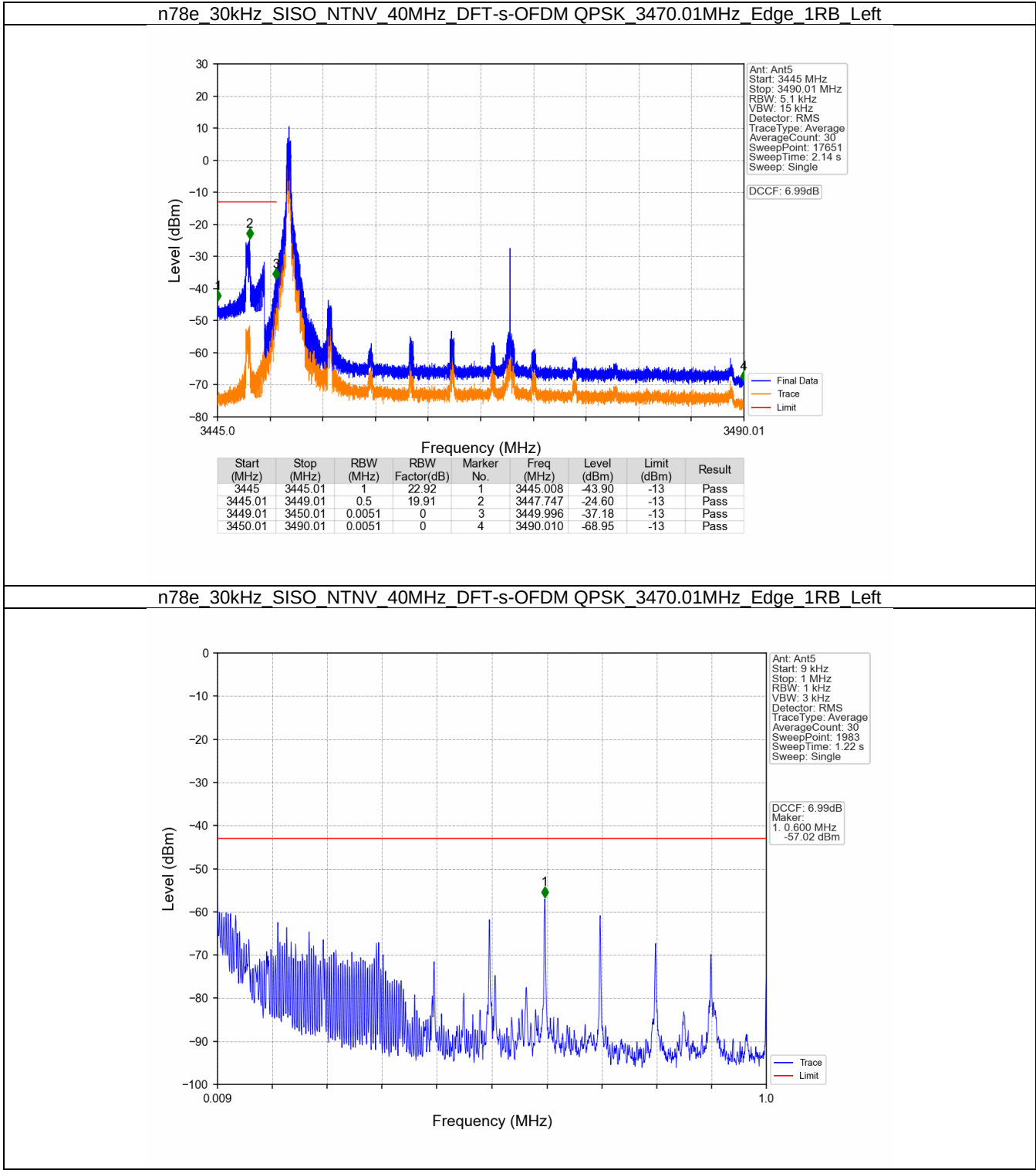
Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3519.99	3549.99	0.0051	0	1	3519.990	-68.03	-13	Pass
3549.99	3549.99	0.0051	0	/	/	/	/	/
3549.99	3550.99	0.0051	0	2	3549.997	-45.00	-13	Pass
3550.99	3554.99	0.5	19.91	3	3554.770	-26.36	-13	Pass
3554.99	3555	1	22.92	4	3554.995	-26.78	-13	Pass

1.3 30k_SISO_40MHz_NTNV

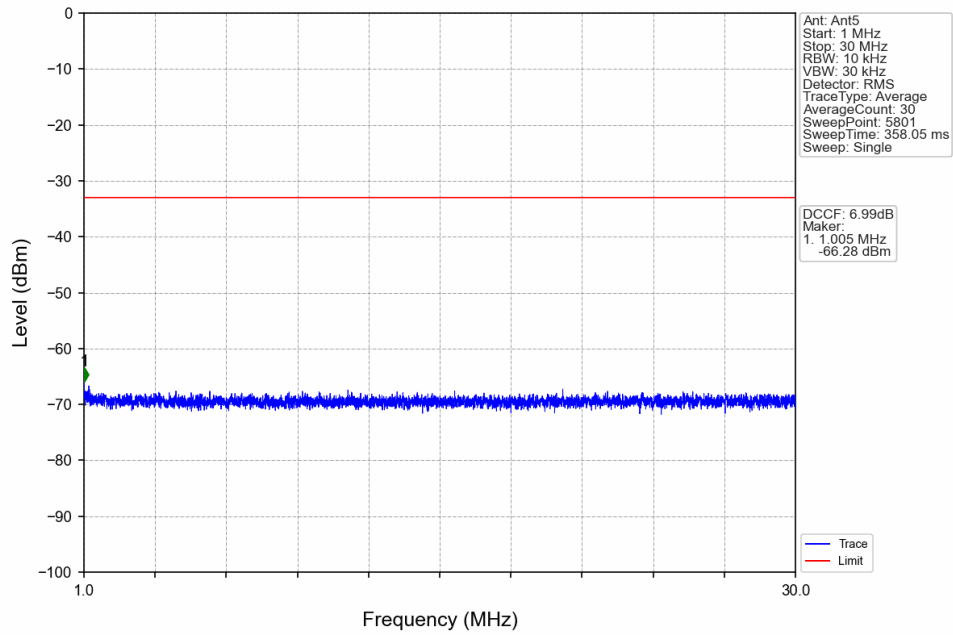
1.3.1 Test Result

5G NR n78e SCS=30kHz SISO 40MHz NTNV								
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission				Verdict	
			Ant5	Ant2	Sum	Limit		
DFT-s-OFDM QPSK	3470.01	Edge_1RB_Left	Refer To Test Graph				Pass	
		Outer_Full	Refer To Test Graph				Pass	
		Inner_1RB_Left	Refer To Test Graph				Pass	
	3500.01	Edge_1RB_Left	Refer To Test Graph				Pass	
		3529.98	Edge_1RB_Right	Refer To Test Graph				Pass
			Outer_Full	Refer To Test Graph				Pass
			Inner_1RB_Right	Refer To Test Graph				Pass
CP-OFDM QPSK	3470.01	Edge_1RB_Left	Refer To Test Graph				Pass	
		Outer_Full	Refer To Test Graph				Pass	
		Inner_1RB_Left	Refer To Test Graph				Pass	
	3500.01	Edge_1RB_Left	Refer To Test Graph				Pass	
		3529.98	Edge_1RB_Right	Refer To Test Graph				Pass
	Outer_Full		Refer To Test Graph				Pass	
	Inner_1RB_Right		Refer To Test Graph				Pass	

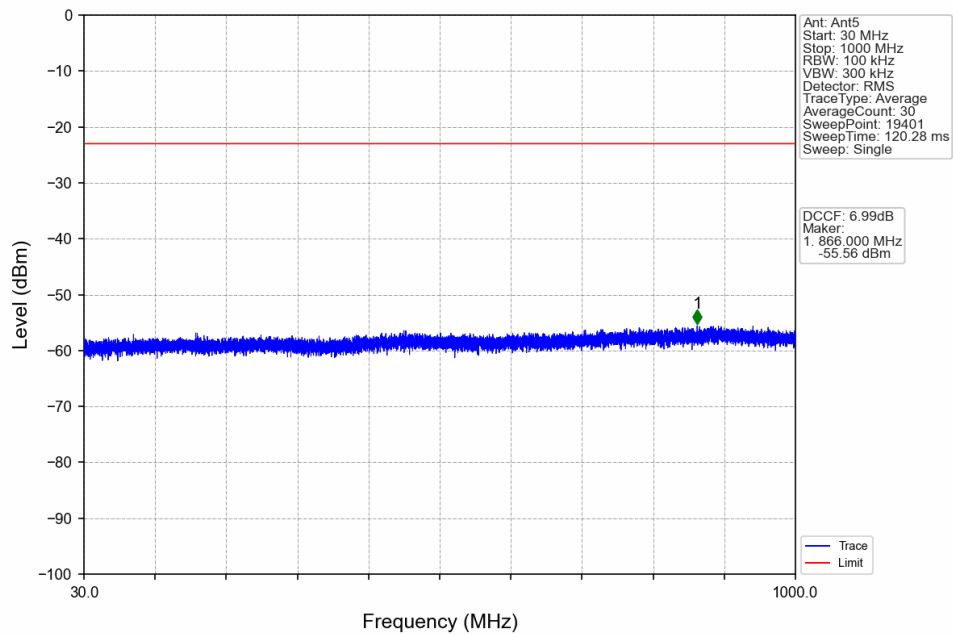
1.3.2 Test Graph



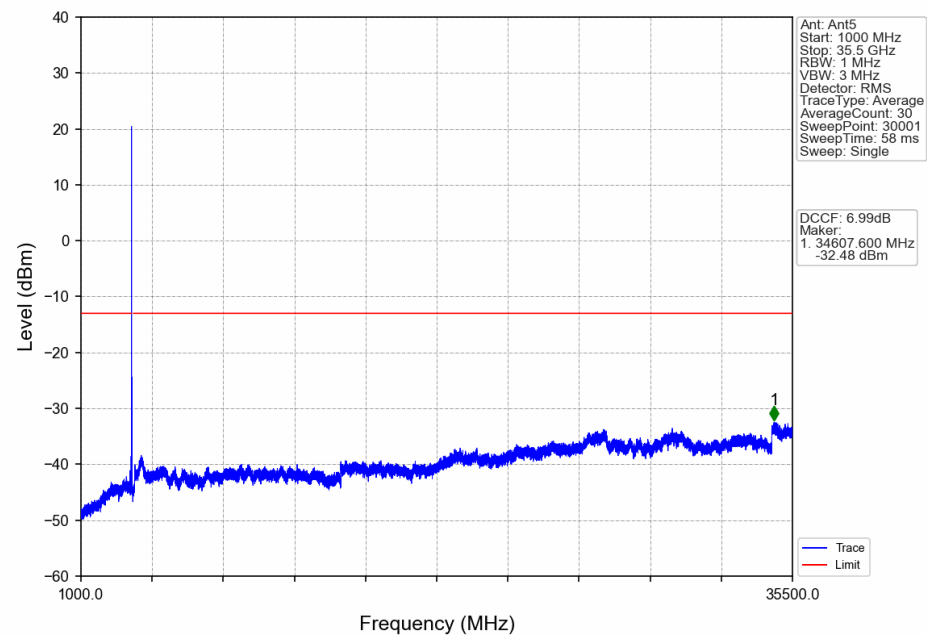
n78e 30kHz SISO NTN 40MHz DFT-s-OFDM QPSK 3470.01MHz Edge 1RB Left



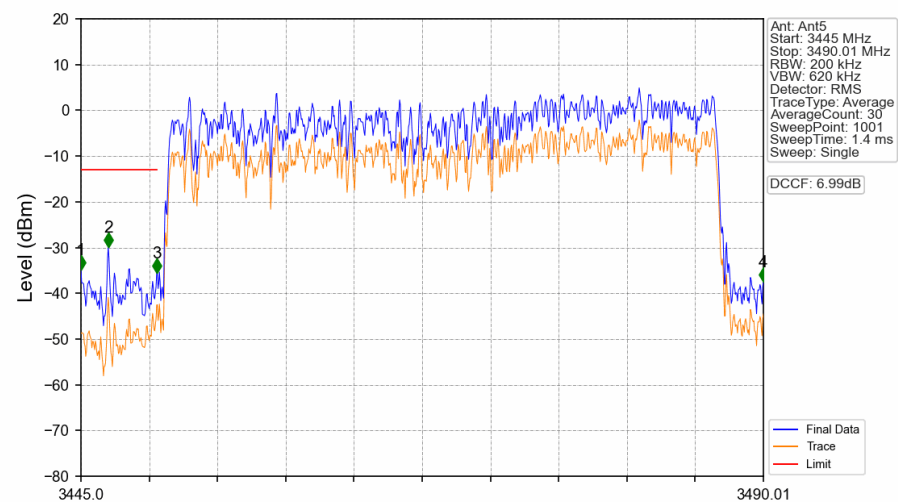
n78e 30kHz SISO NTN 40MHz DFT-s-OFDM QPSK 3470.01MHz Edge 1RB Left



n78e 30kHz SISO NTN 40MHz DFT-s-OFDM QPSK 3470.01MHz Edge 1RB Left

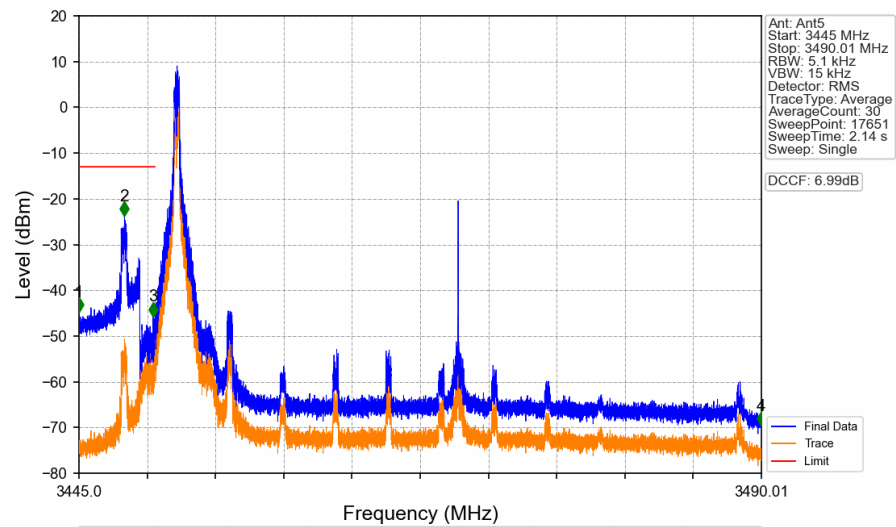


n78e 30kHz SISO NTN 40MHz DFT-s-OFDM QPSK 3470.01MHz Outer Full



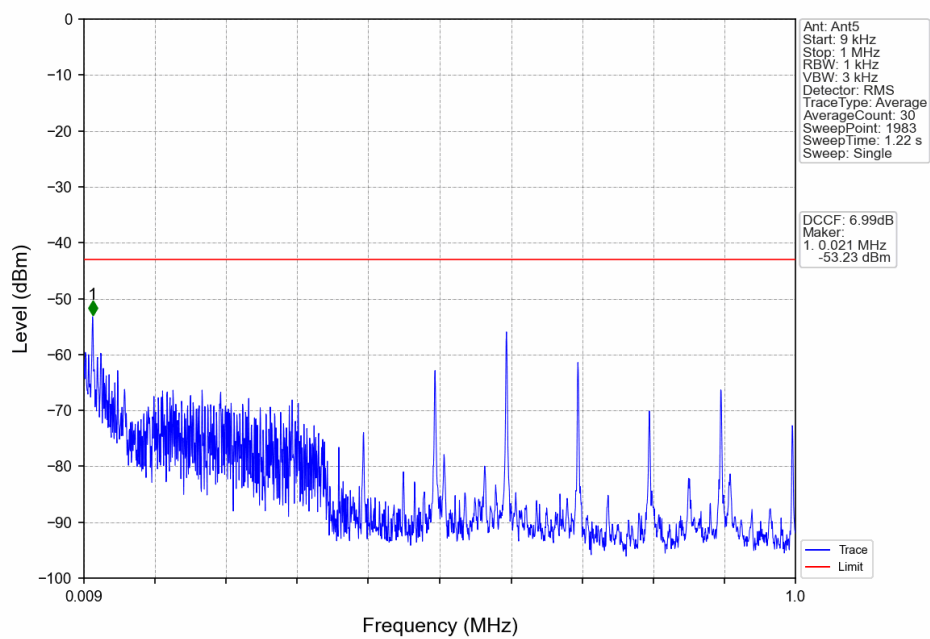
Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3445	3445.01	1	6.99	1	3445.000	-34.81	-13	Pass
3445.01	3449.01	0.5	3.98	2	3446.800	-29.95	-13	Pass
3449.01	3450.01	0.2	0	3	3449.996	-35.58	-13	Pass
3450.01	3490.01	0.2	0	4	3490.010	-37.52	-13	Pass

n78e 30kHz SISO NTN 40MHz DFT-s-OFDM QPSK 3470.01MHz Inner 1RB Left

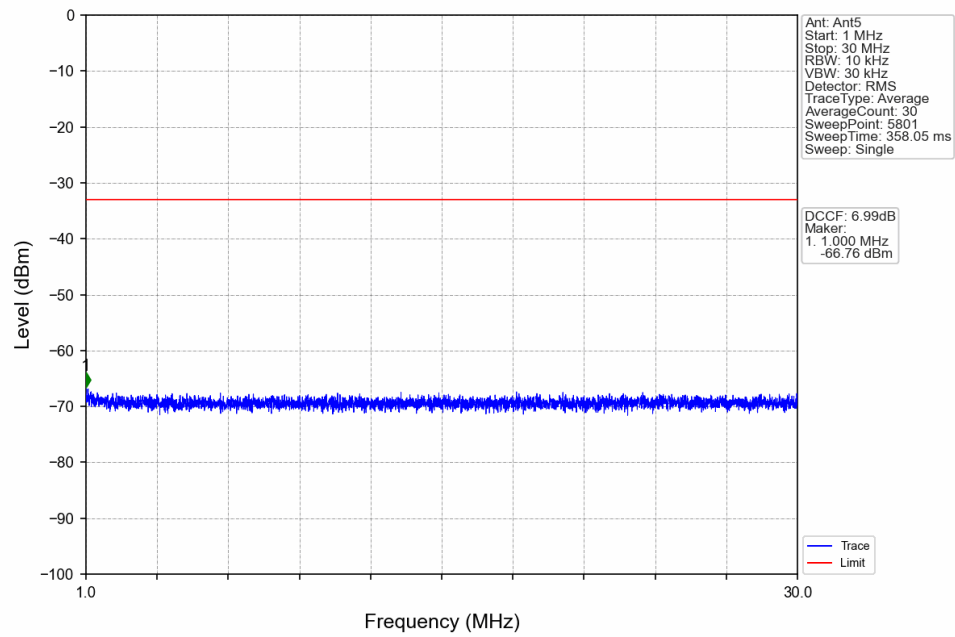


Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3445	3445.01	1	22.92	1	3445.003	-44.79	-13	Pass
3445.01	3449.01	0.5	19.91	2	3448.004	-23.73	-13	Pass
3449.01	3450.01	0.0051	0	3	3449.896	-45.70	-13	Pass
3450.01	3490.01	0.0051	0	4	3490.010	-69.66	-13	Pass

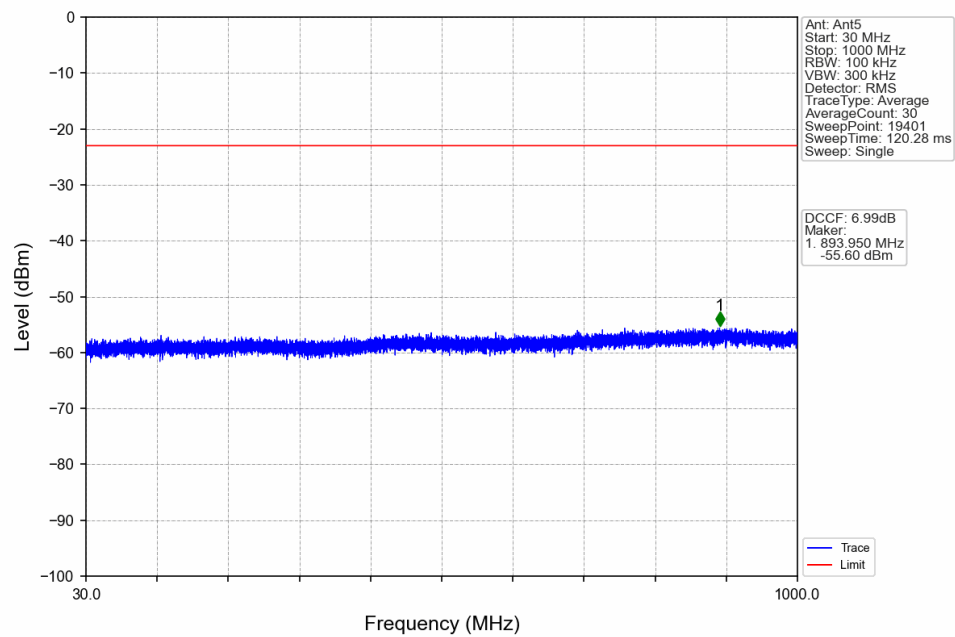
n78e 30kHz SISO NTN 40MHz DFT-s-OFDM QPSK 3500.01MHz Edge 1RB Left



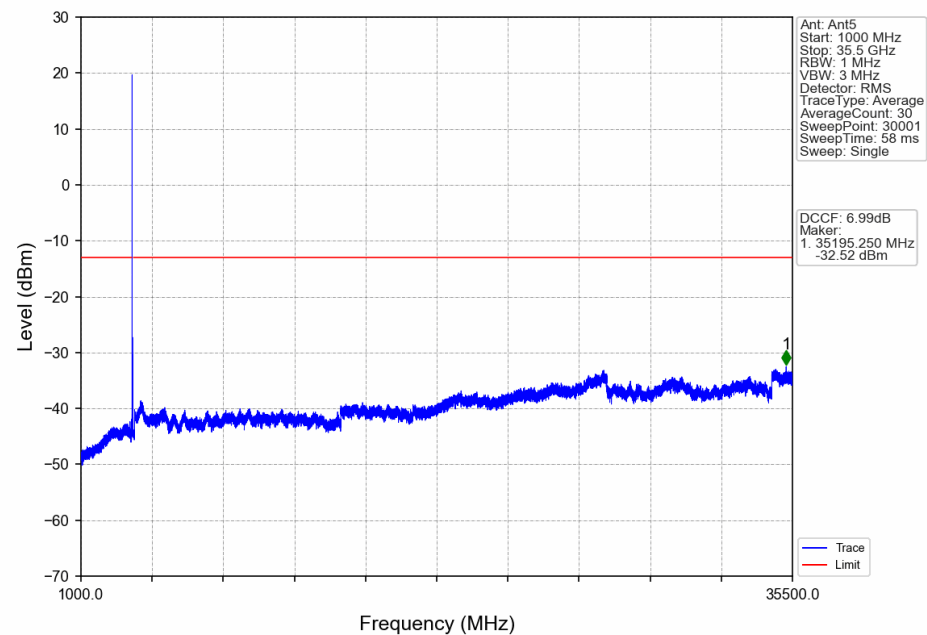
n78e 30kHz SISO NTN 40MHz DFT-s-OFDM QPSK 3500.01MHz Edge 1RB Left



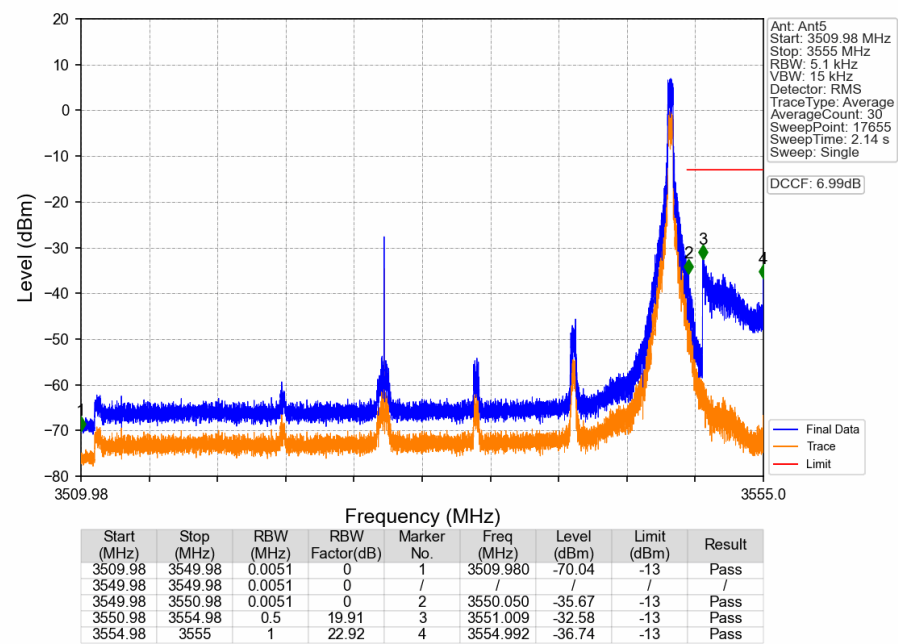
n78e 30kHz SISO NTN 40MHz DFT-s-OFDM QPSK 3500.01MHz Edge 1RB Left



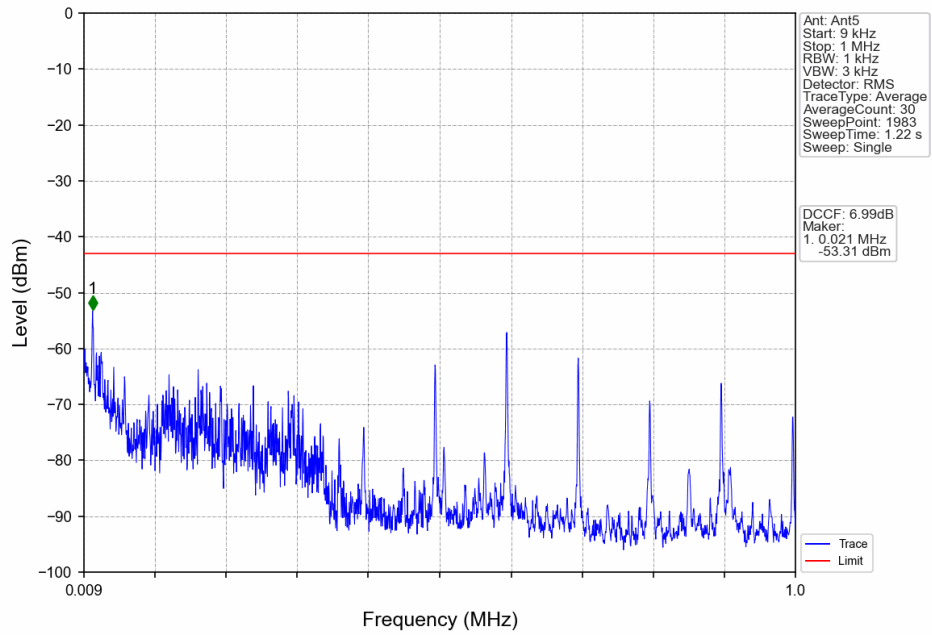
n78e 30kHz SISO NTN 40MHz DFT-s-OFDM QPSK 3500.01MHz Edge 1RB Left



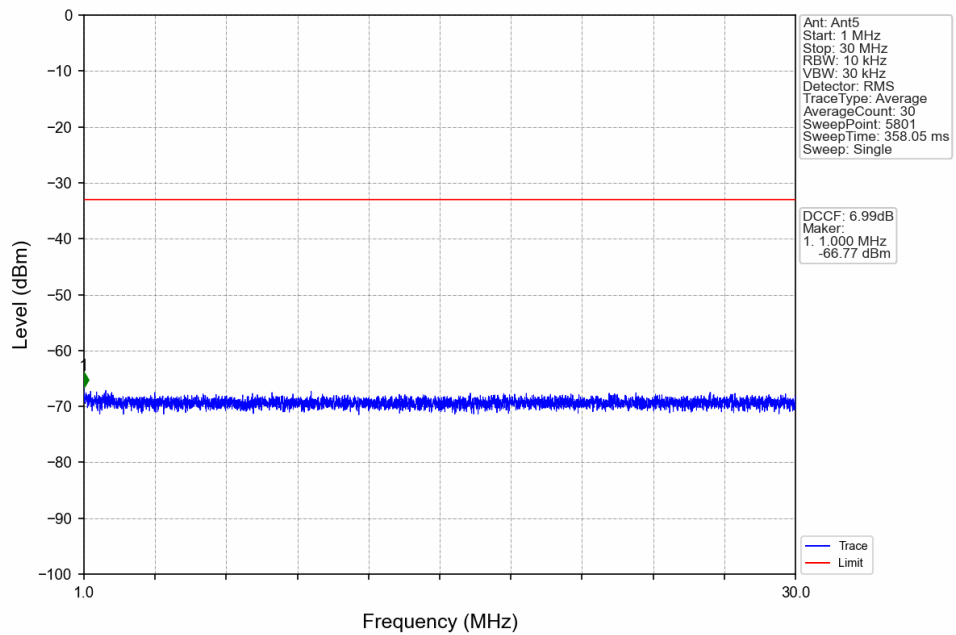
n78e 30kHz SISO NTN 40MHz DFT-s-OFDM QPSK 3529.98MHz Edge 1RB Right



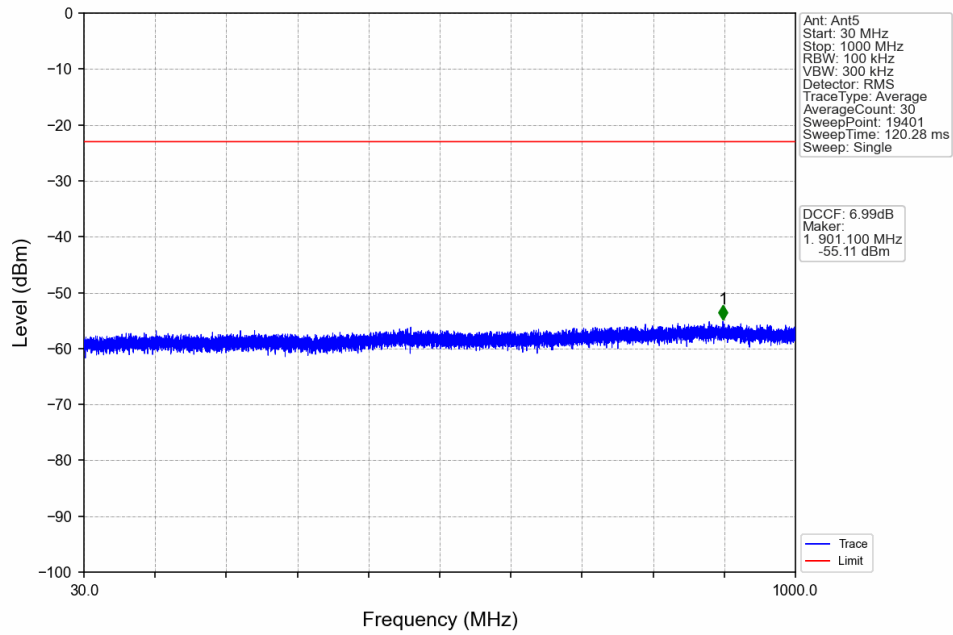
n78e 30kHz SISO NTN 40MHz DFT-s-OFDM QPSK 3529.98MHz Edge 1RB Right



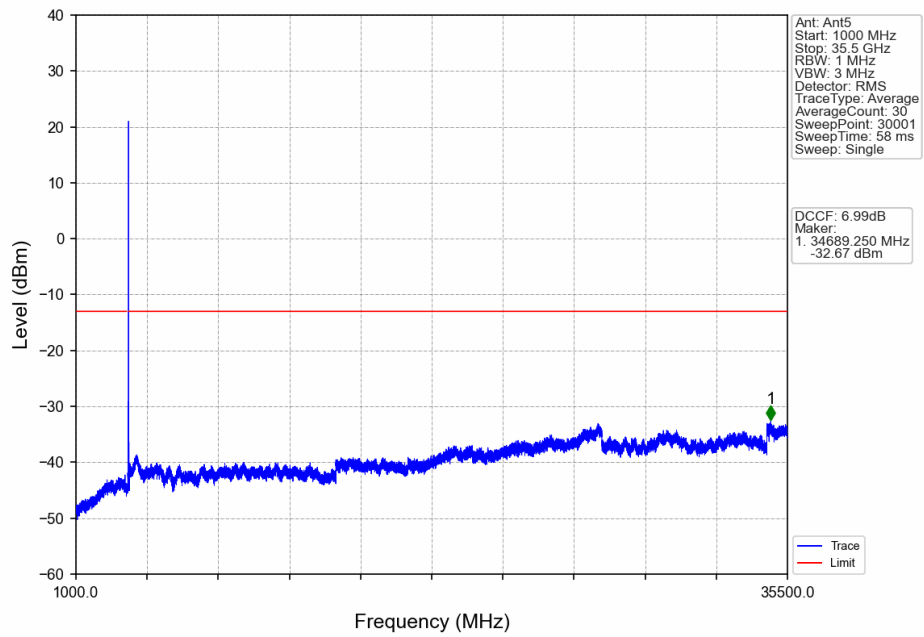
n78e 30kHz SISO NTN 40MHz DFT-s-OFDM QPSK 3529.98MHz Edge 1RB Right



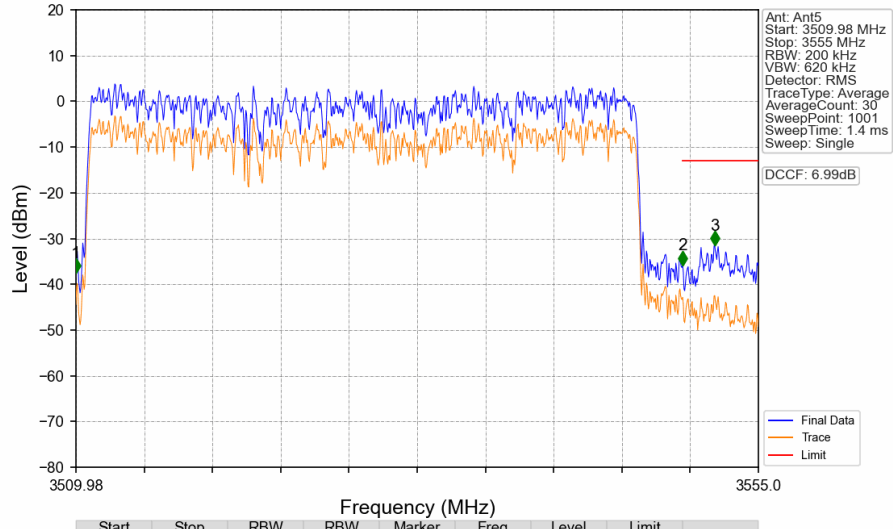
n78e 30kHz SISO NTN 40MHz DFT-s-OFDM QPSK 3529.98MHz Edge 1RB Right



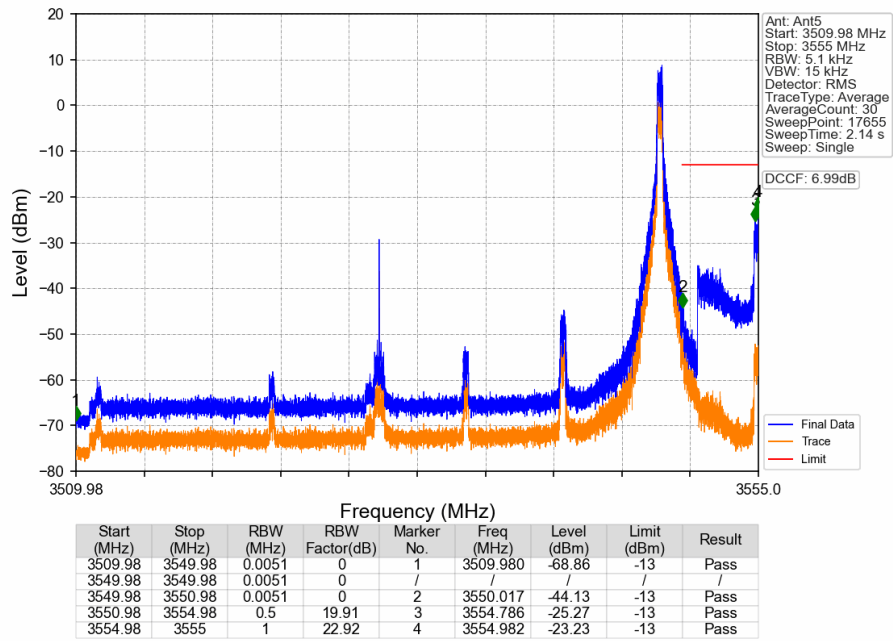
n78e 30kHz SISO NTN 40MHz DFT-s-OFDM QPSK 3529.98MHz Edge 1RB Right



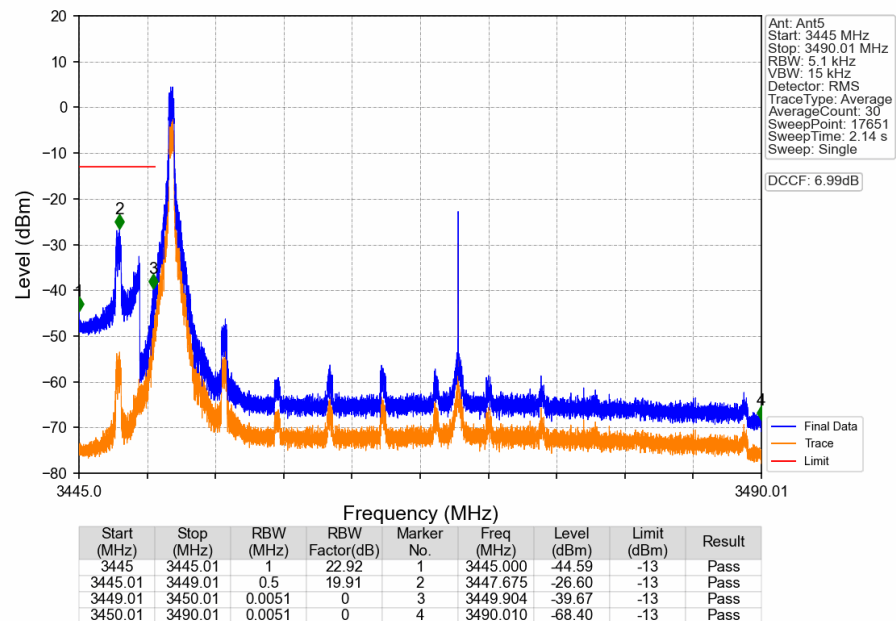
n78e 30kHz SISO NTN 40MHz DFT-s-OFDM QPSK 3529.98MHz Outer Full



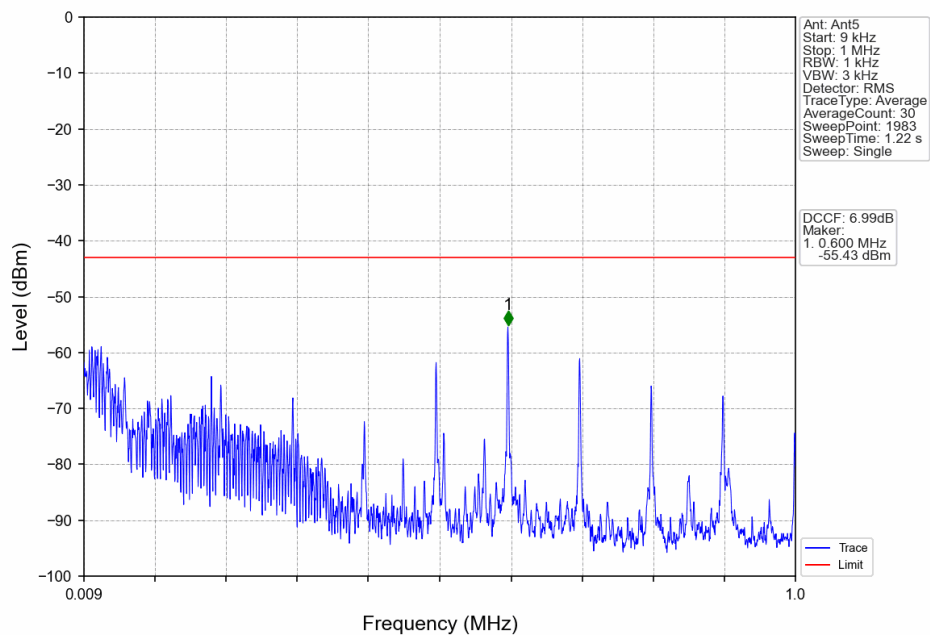
n78e 30kHz SISO NTN 40MHz DFT-s-OFDM QPSK 3529.98MHz Inner 1RB Right



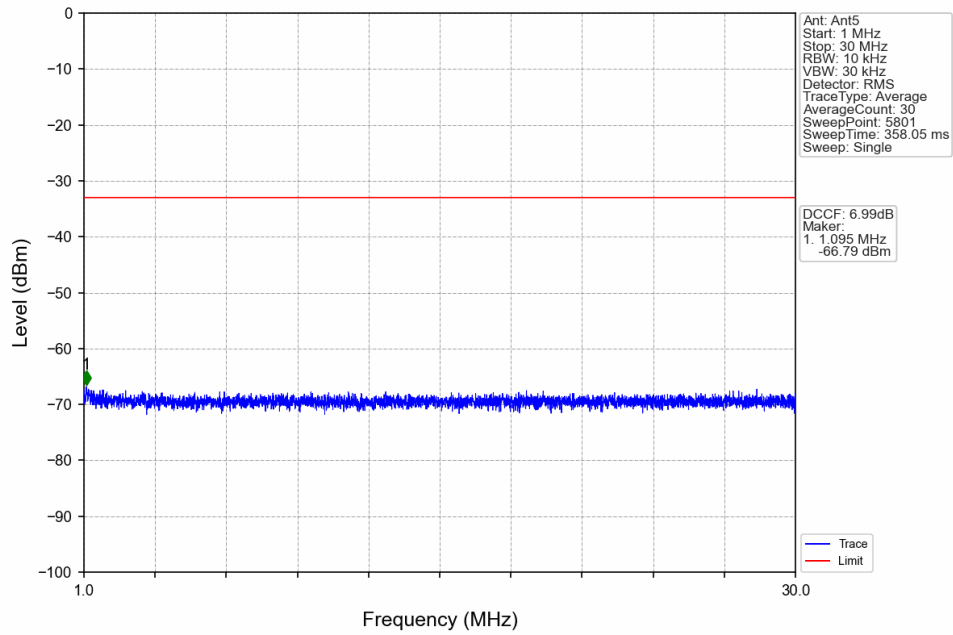
n78e 30kHz SISO NTN 40MHz CP-OFDM QPSK 3470.01MHz Edge 1RB Left



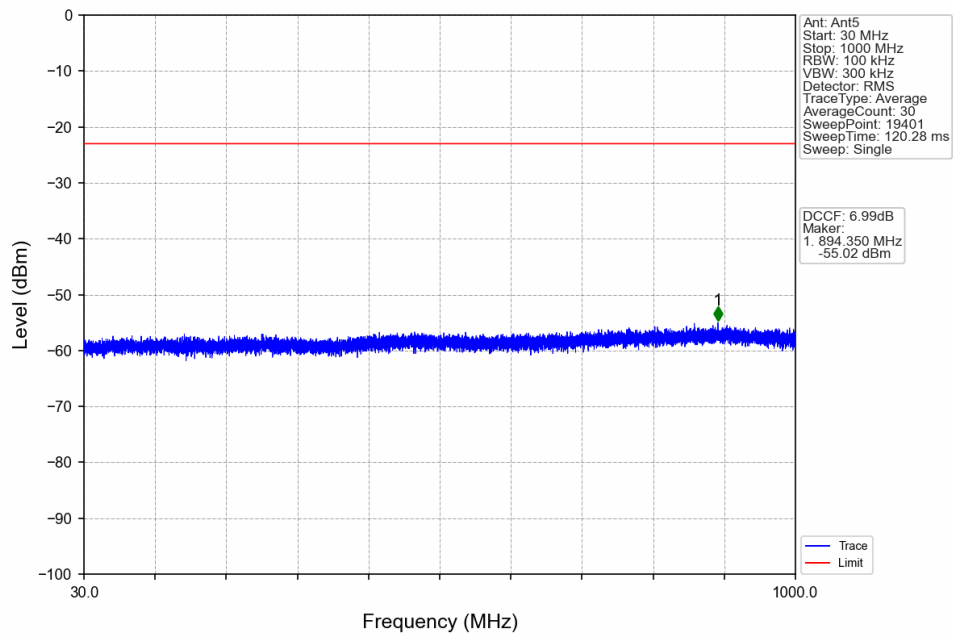
n78e 30kHz SISO NTN 40MHz CP-OFDM QPSK 3470.01MHz Edge 1RB Left



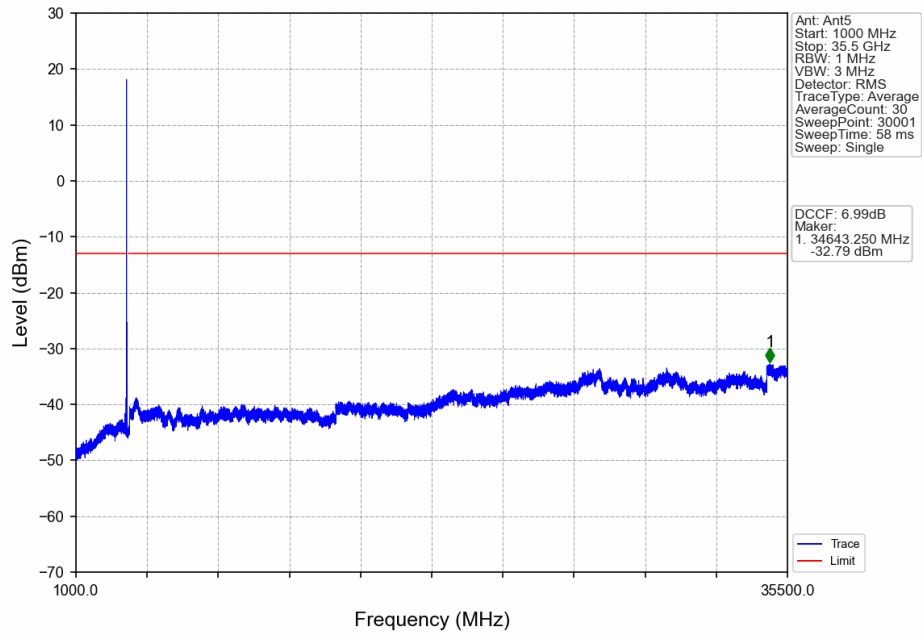
n78e 30kHz SISO NTN 40MHz CP-OFDM QPSK 3470.01MHz Edge 1RB Left



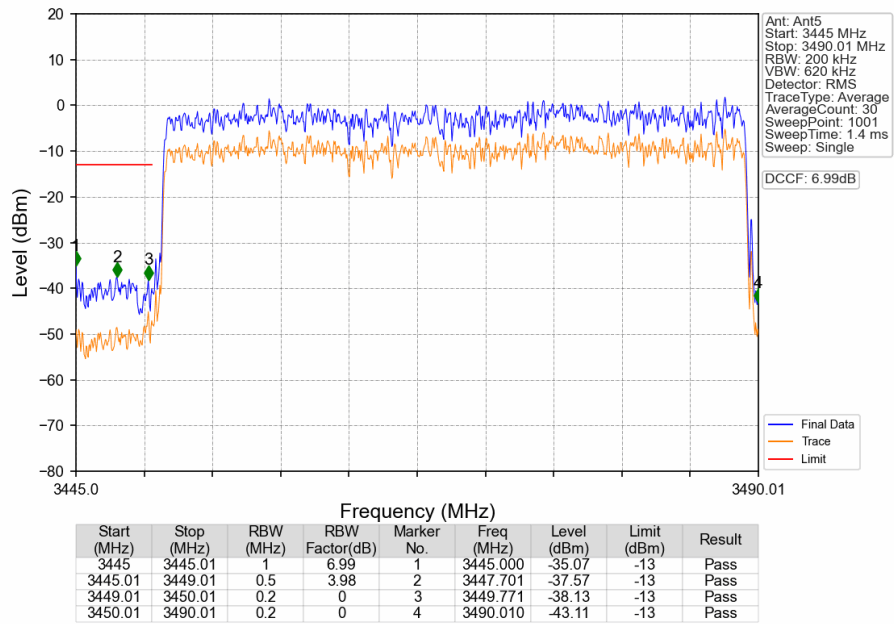
n78e 30kHz SISO NTN 40MHz CP-OFDM QPSK 3470.01MHz Edge 1RB Left



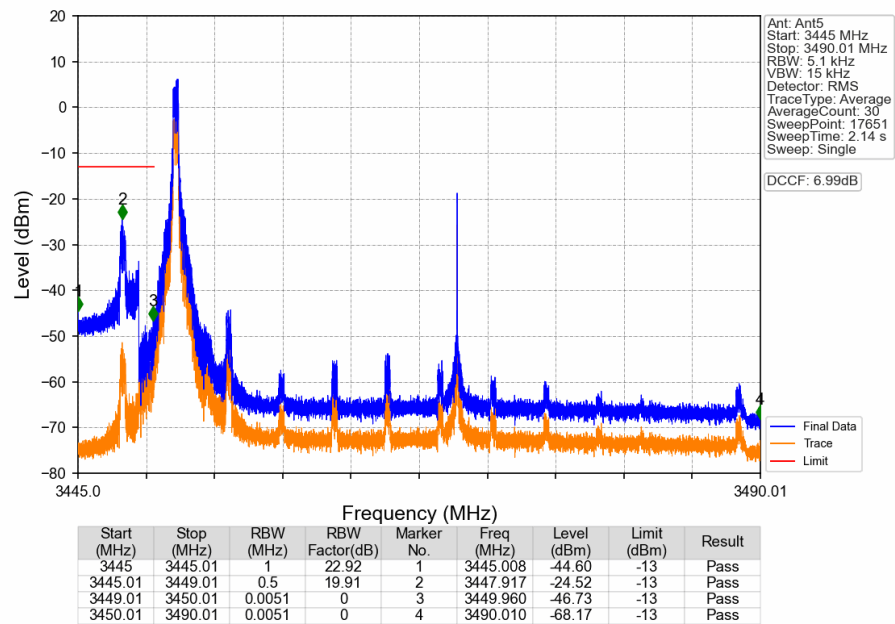
n78e 30kHz SISO NTN 40MHz CP-OFDM QPSK 3470.01MHz Edge 1RB Left



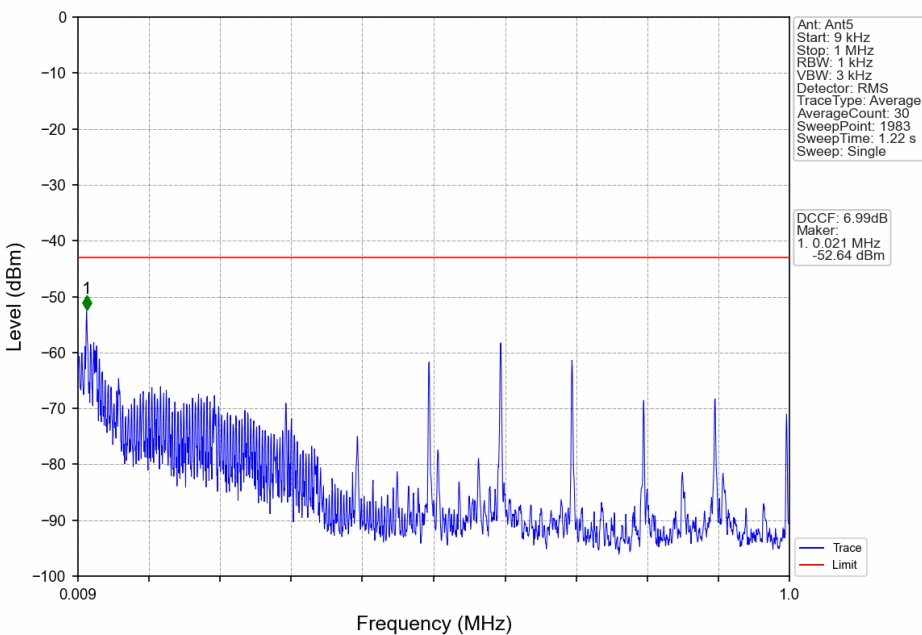
n78e 30kHz SISO NTN 40MHz CP-OFDM QPSK 3470.01MHz Outer Full



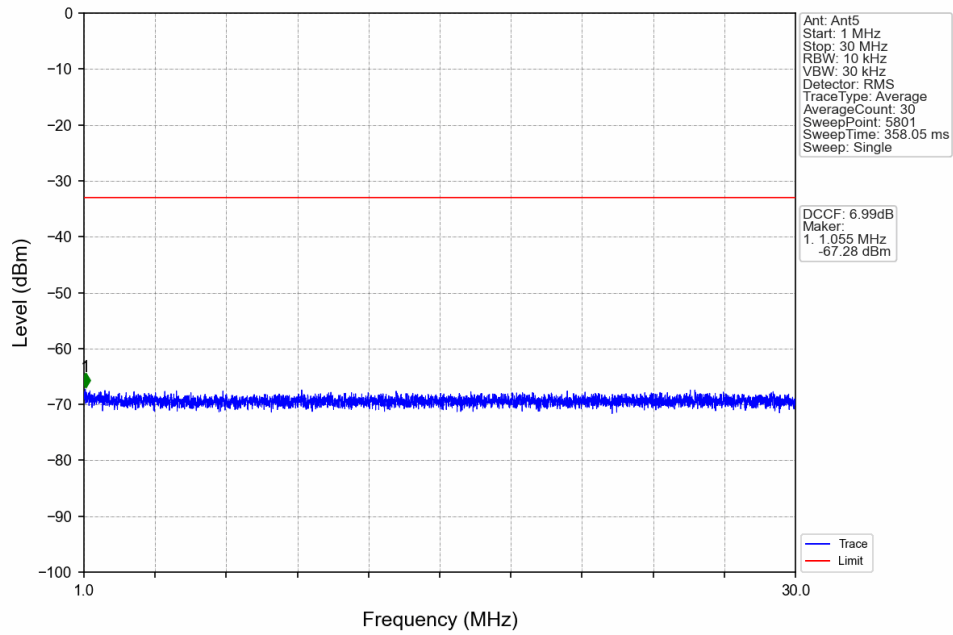
n78e 30kHz SISO NTN 40MHz CP-OFDM QPSK 3470.01MHz Inner 1RB Left



n78e 30kHz SISO NTN 40MHz CP-OFDM QPSK 3500.01MHz Edge 1RB Left



n78e 30kHz SISO NTN 40MHz CP-OFDM QPSK 3500.01MHz Edge 1RB Left



n78e 30kHz SISO NTN 40MHz CP-OFDM QPSK 3500.01MHz Edge 1RB Left

