

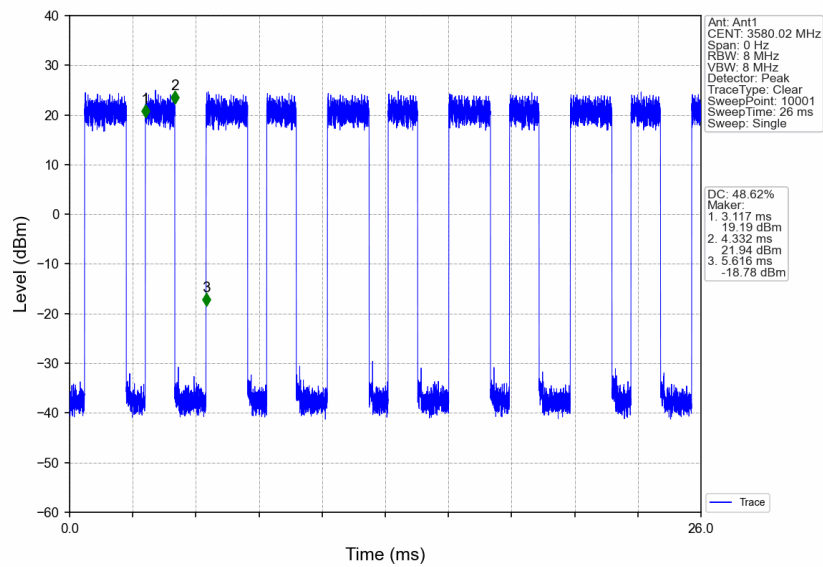
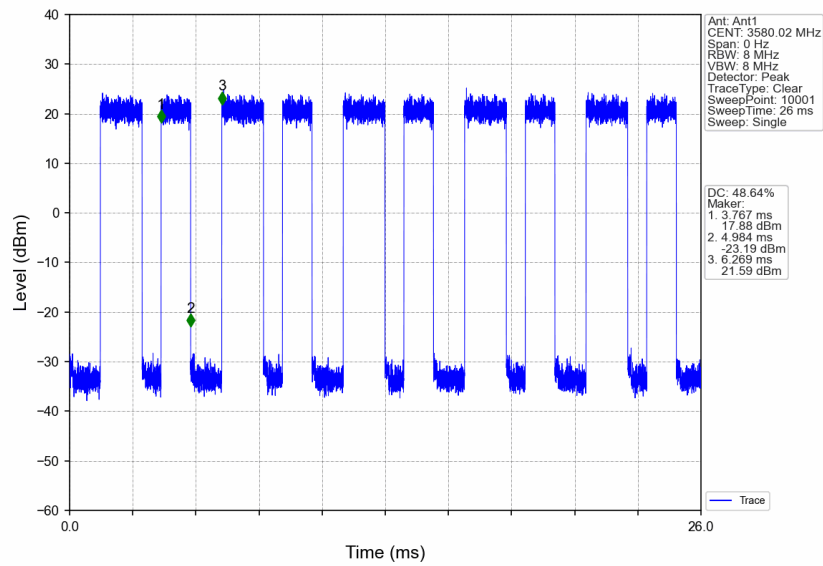
1. Duty Cycle

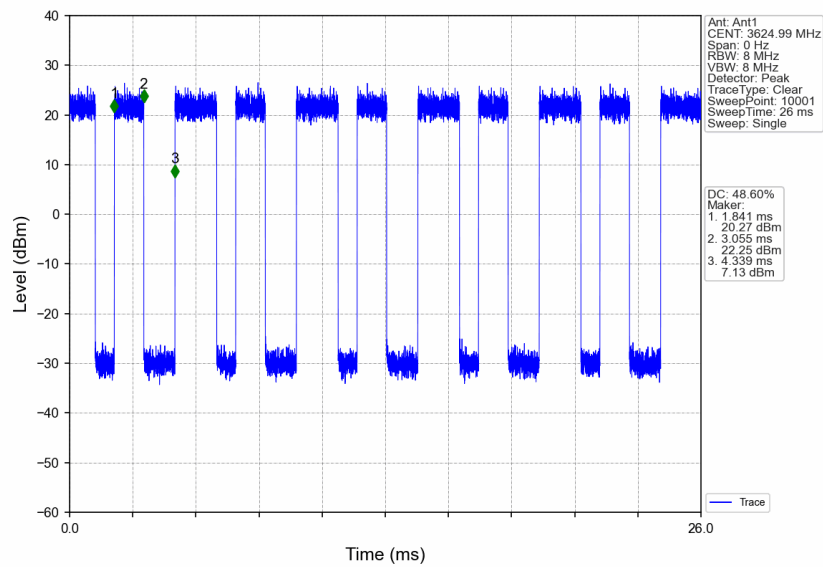
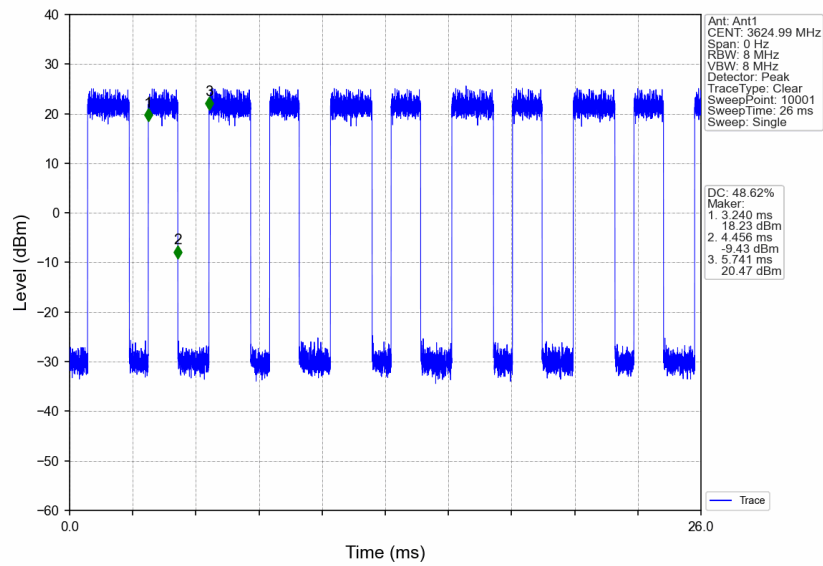
1.1 30_Single_Ant1

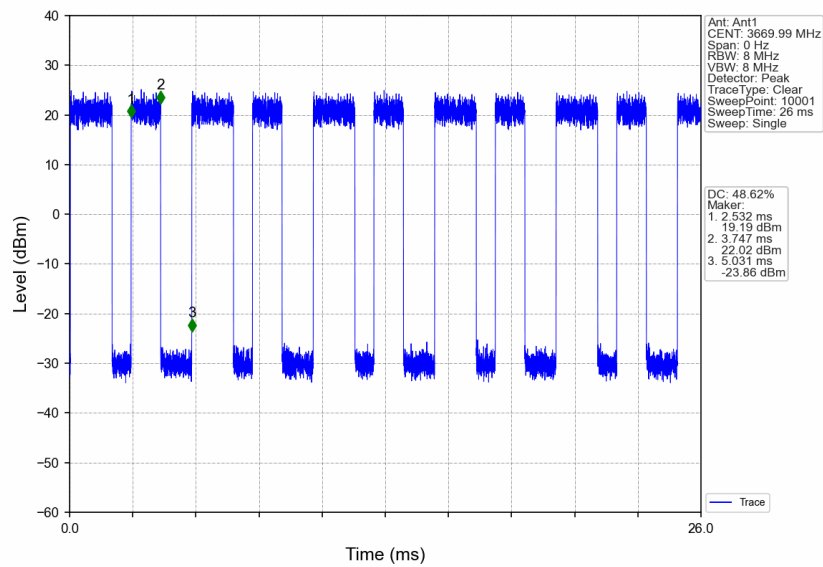
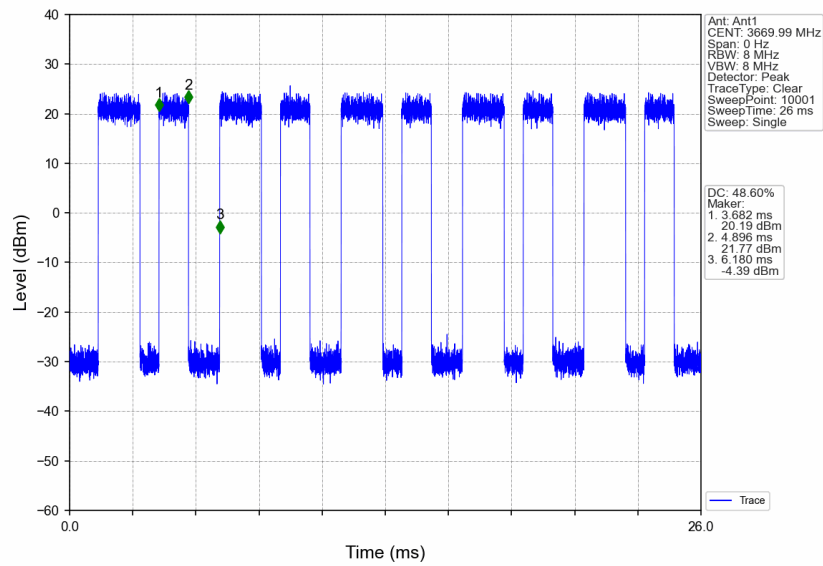
1.1.1 Test Result

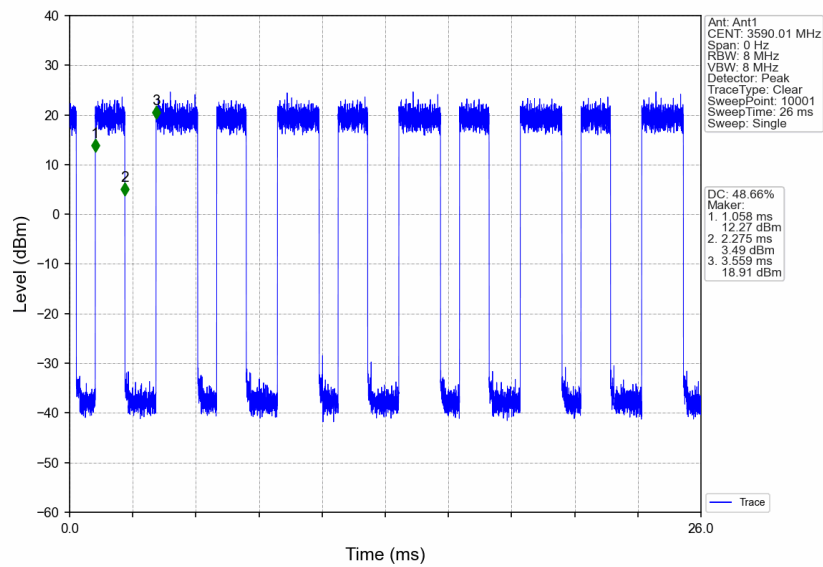
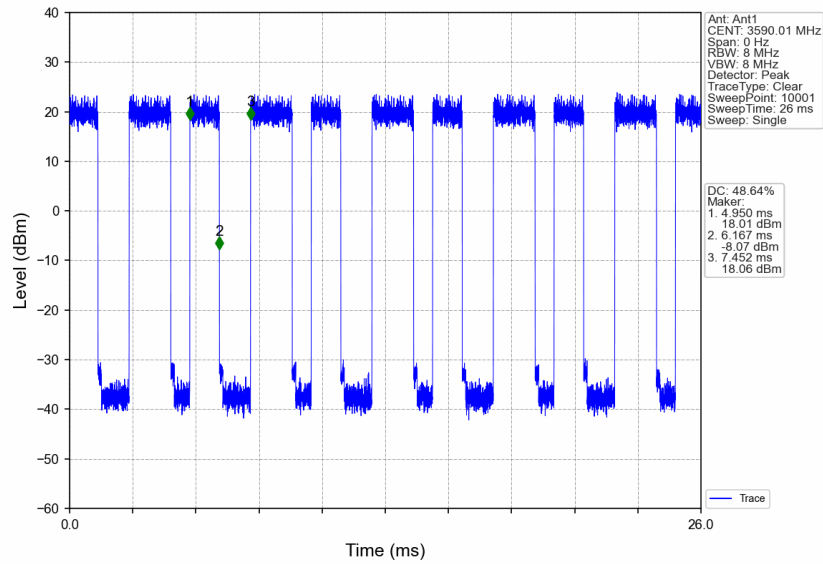
Band n48&77&78 Single NTNV Ant1							
BW (MHz)	DL Frequency (MHz)	Test Mode	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
CC1:60	CC1:3580.02	QPSK	1.217	2.502	48.64	3.13	20.03
		256QAM	1.215	2.499	48.62	3.13	20.01
	CC1:3624.99	QPSK	1.216	2.501	48.62	3.13	20.03
		256QAM	1.214	2.498	48.60	3.13	20.01
	CC1:3669.99	QPSK	1.214	2.498	48.60	3.13	20.01
		256QAM	1.215	2.499	48.62	3.13	20.08
CC1:80	CC1:3590.01	QPSK	1.217	2.502	48.64	3.13	20.03
		256QAM	1.217	2.501	48.66	3.13	20.03
	CC1:3624.99	QPSK	1.216	2.501	48.62	3.13	20.03
		256QAM	1.217	2.501	48.66	3.13	20.03
	CC1:3660	QPSK	1.214	2.498	48.60	3.13	20.08
		256QAM	1.214	2.498	48.60	3.13	20.08
CC1:100	CC1:3600	QPSK	1.214	2.498	48.60	3.13	20.01
		256QAM	1.215	2.499	48.62	3.13	20.08
	CC1:3624.99	QPSK	1.217	2.501	48.66	3.13	20.03
		256QAM	1.214	2.498	48.60	3.13	20.08
	CC1:3649.98	QPSK	1.214	2.498	48.60	3.13	20.01
		256QAM	1.214	2.498	48.60	3.13	20.08

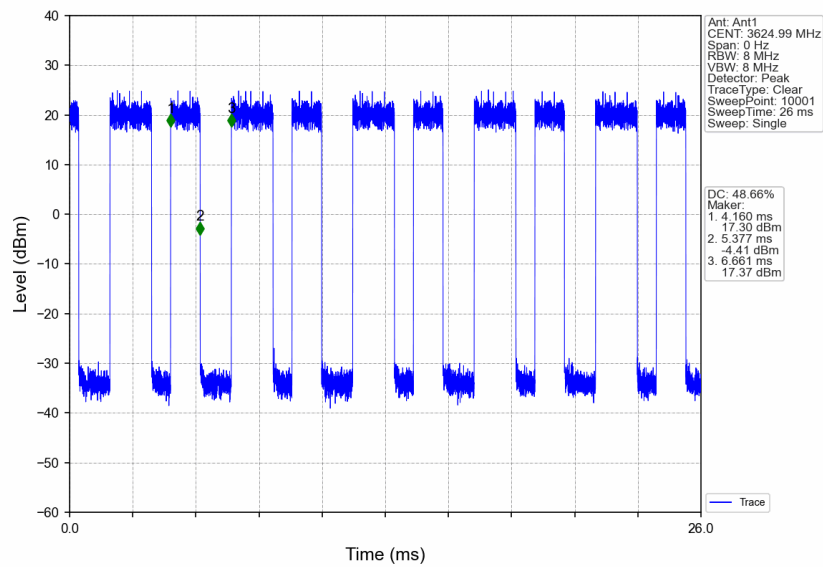
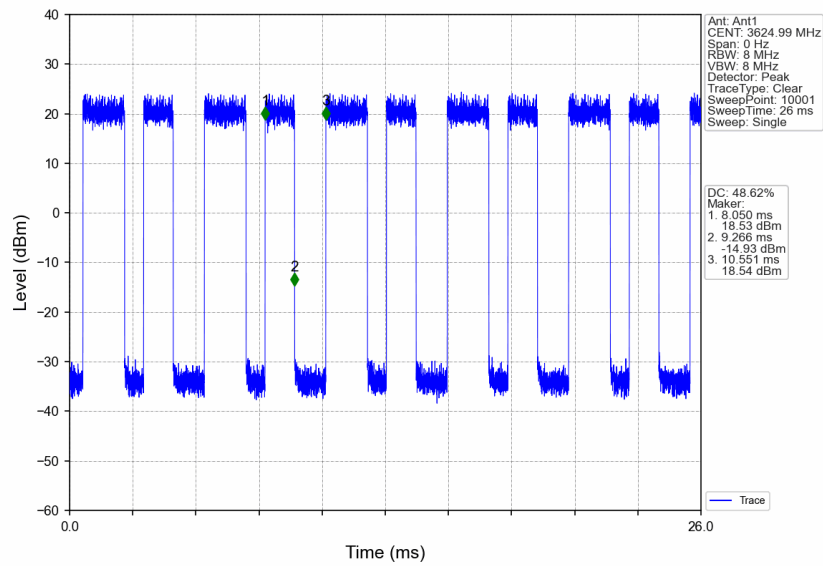
1.1.2 Test Graph

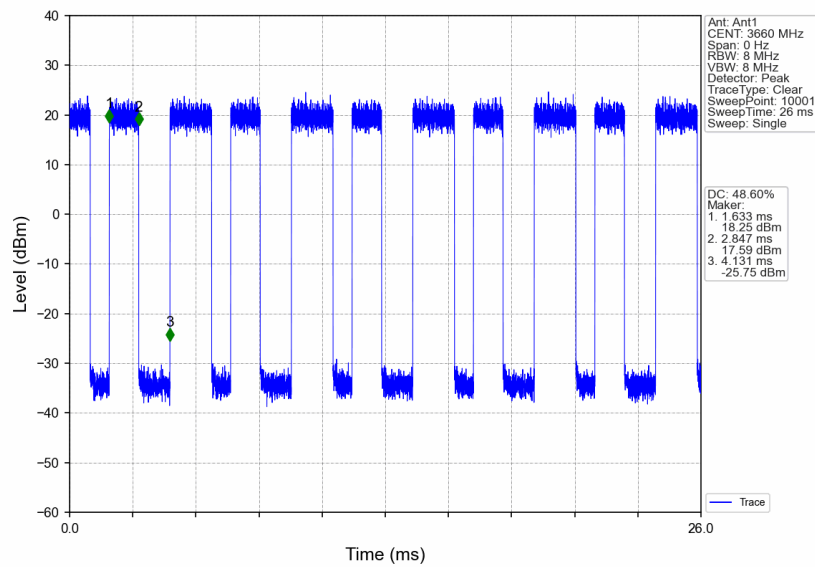
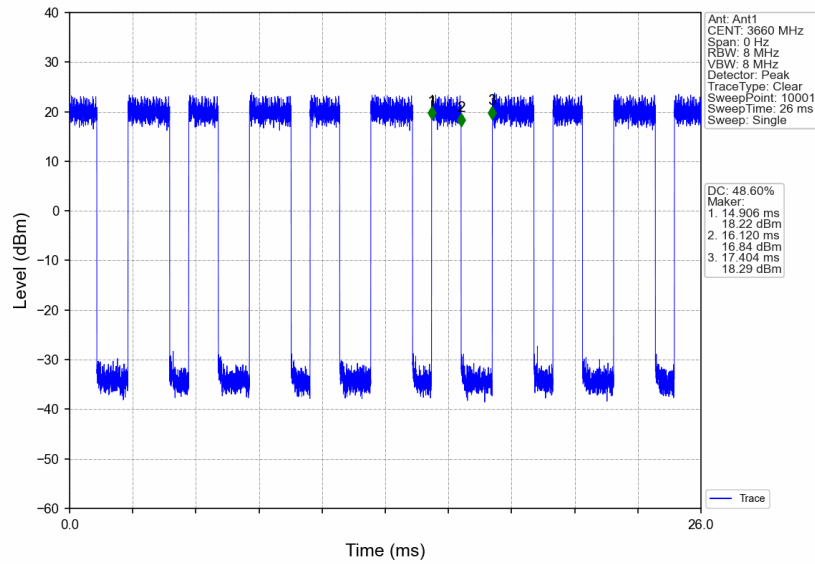


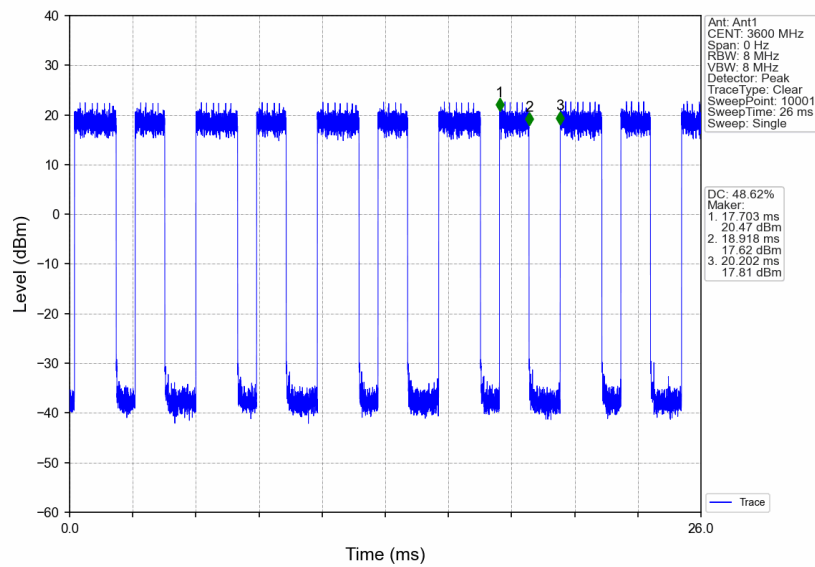
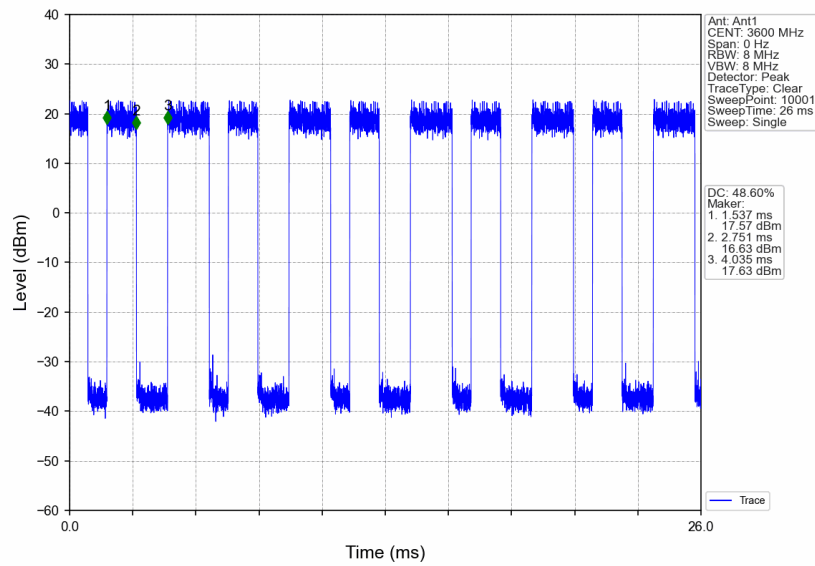


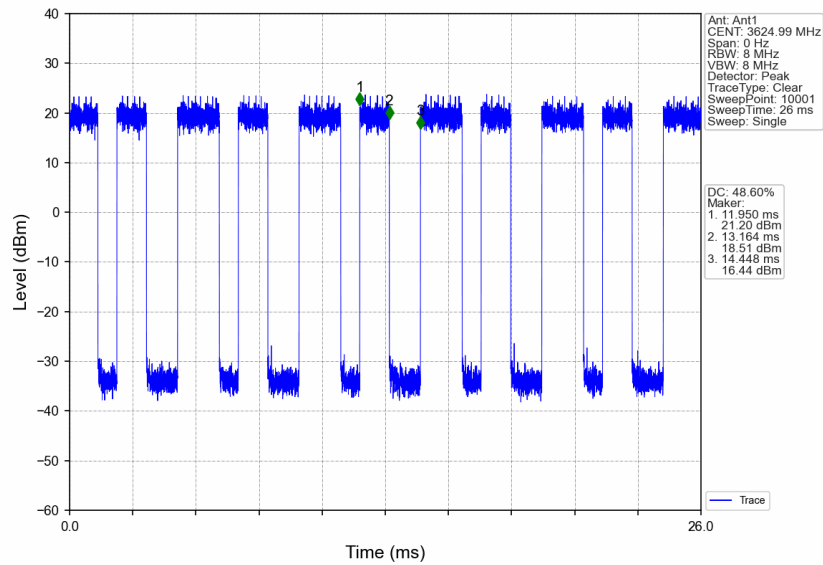
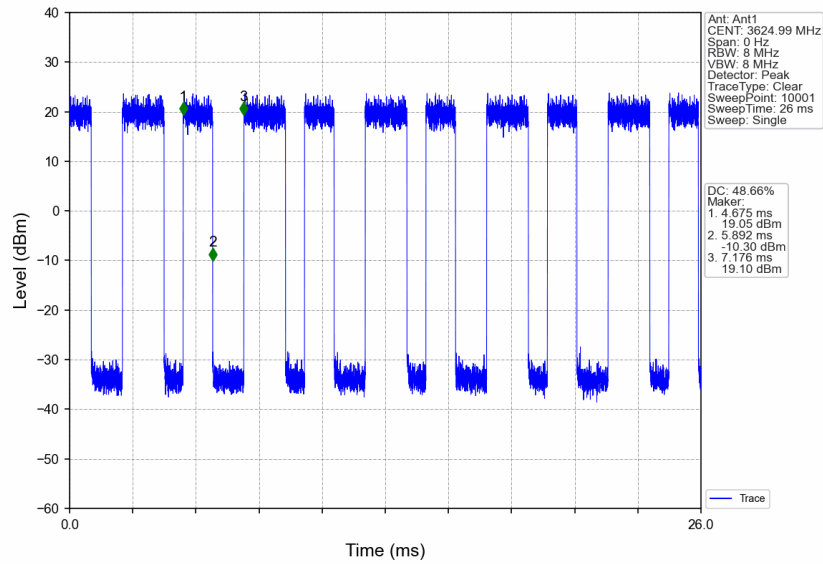


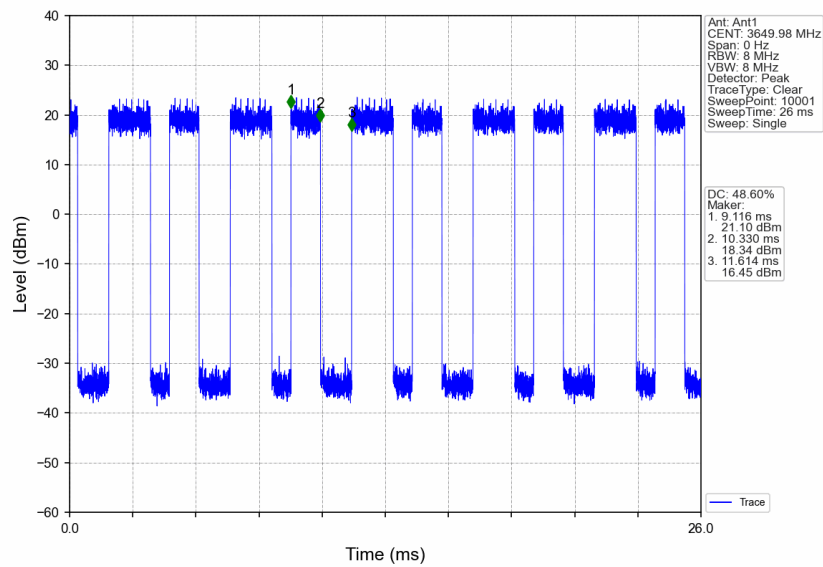
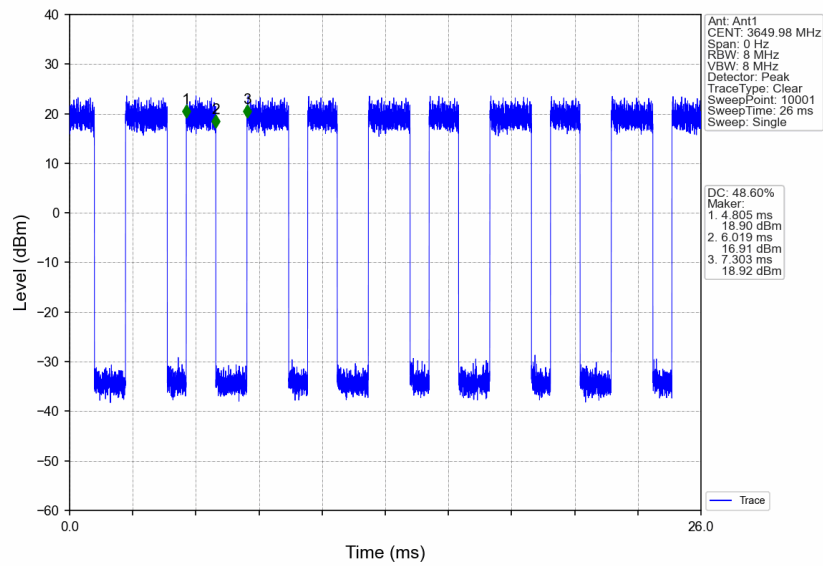












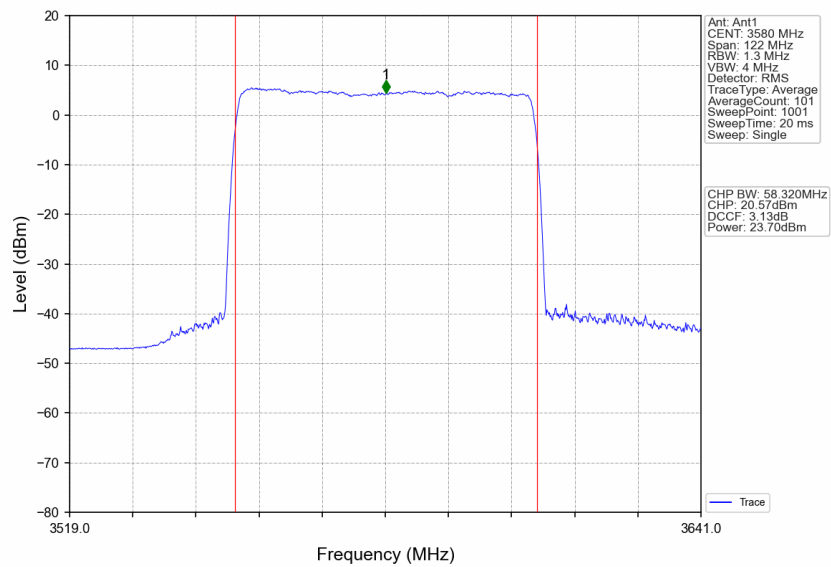
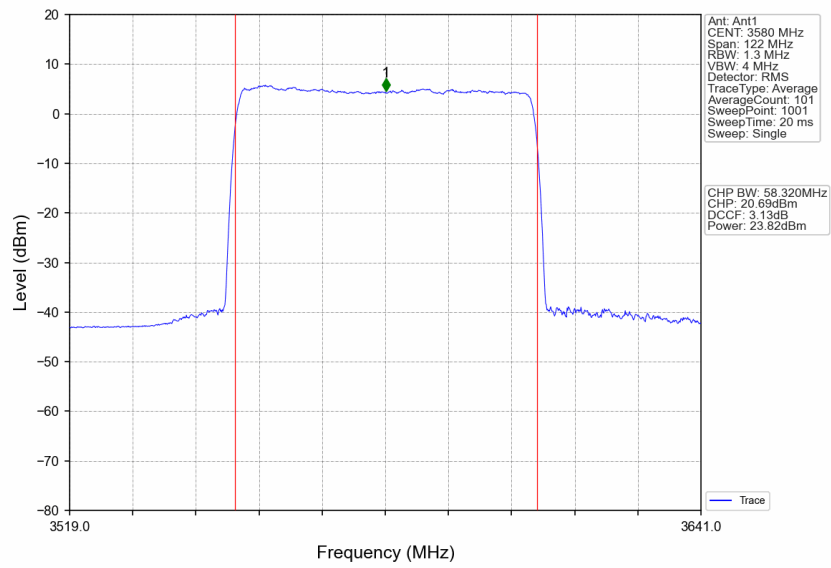
2. Effective (Isotropic) Radiated Power Output Data

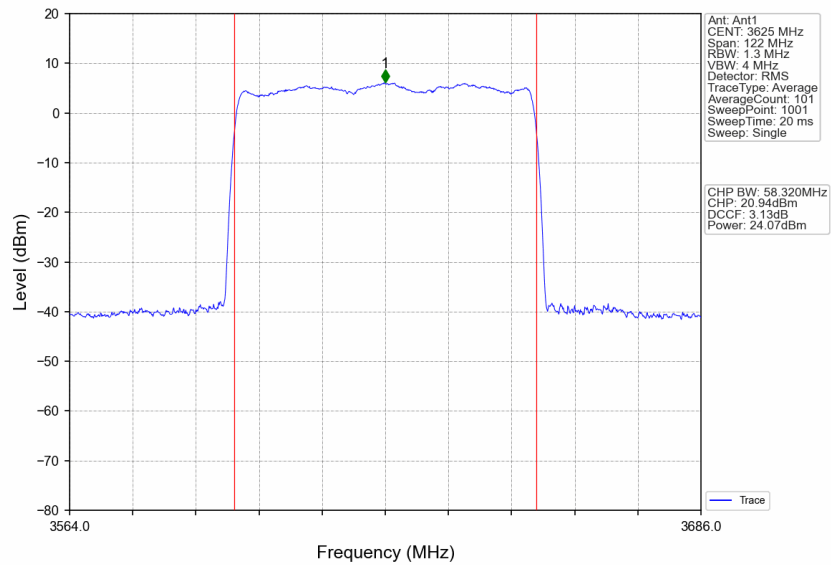
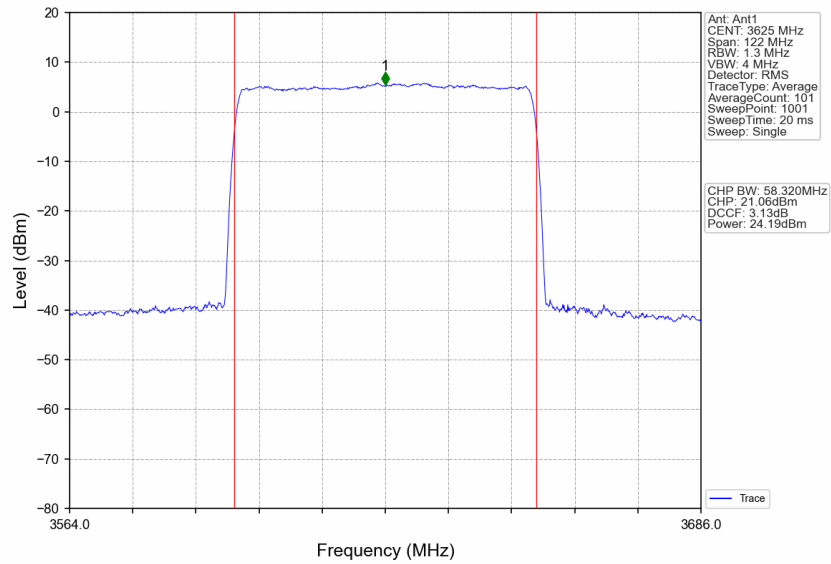
2.1 30_Single_Power

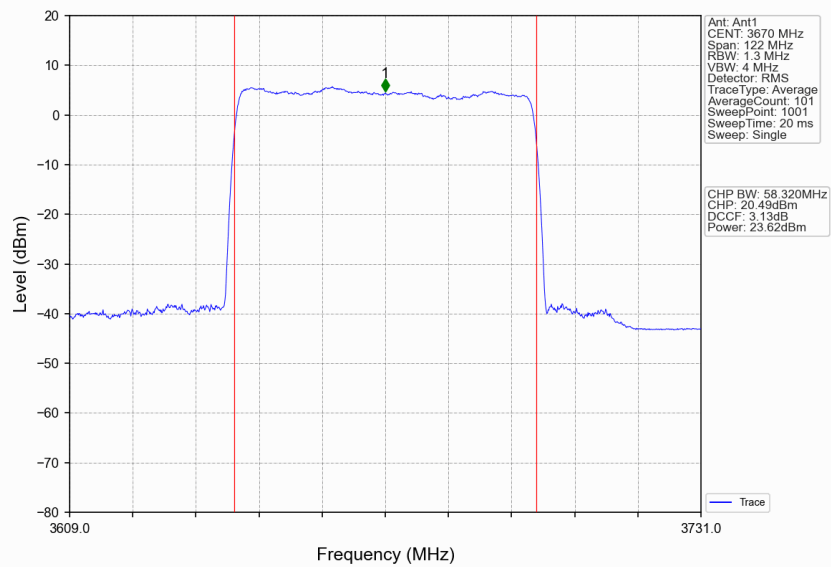
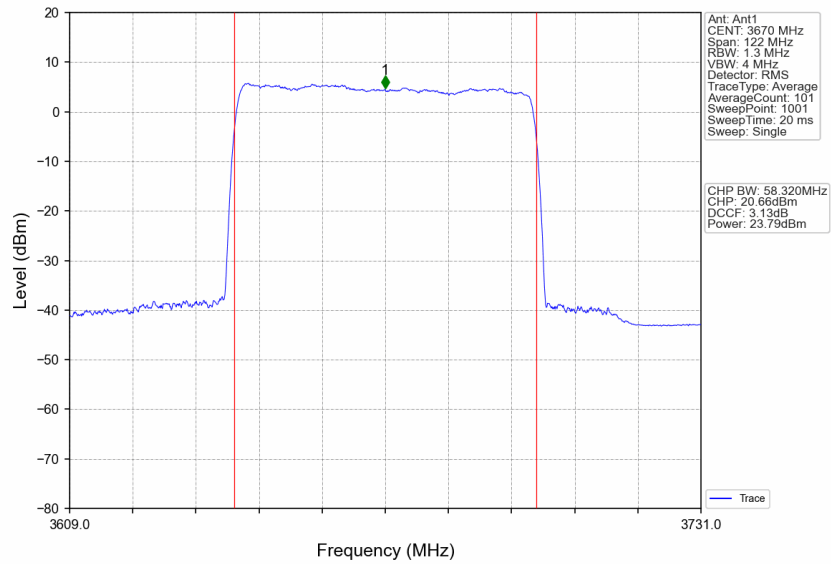
2.1.1 Test Result

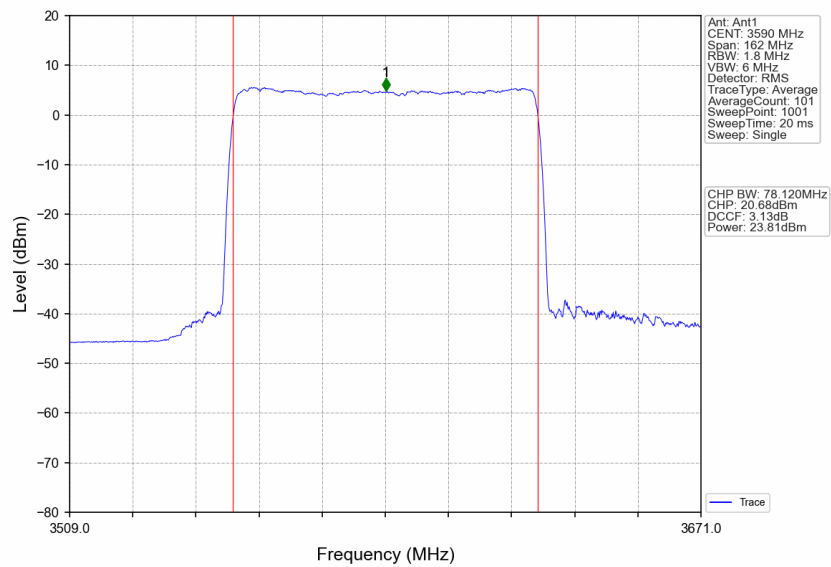
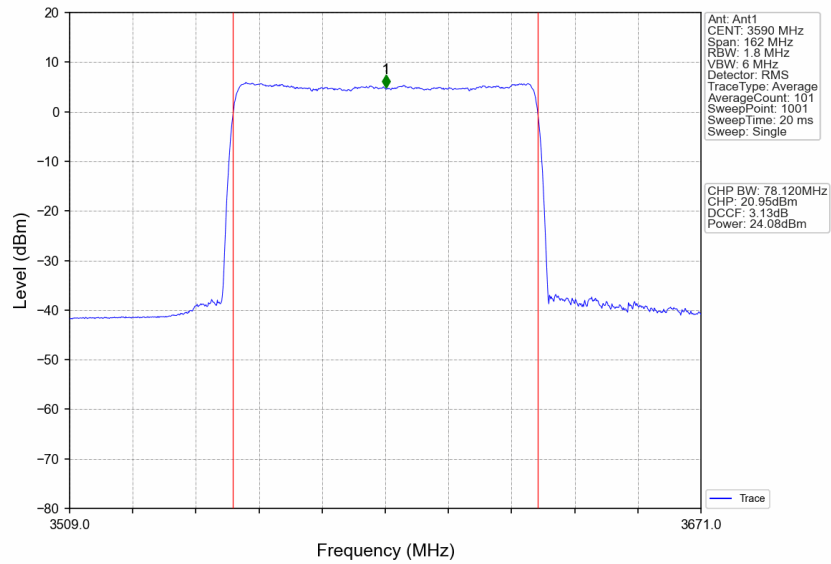
Band n48&77&78 Single NTN							
BW (MHz)	DL Frequency (MHz)	Test Mode	Ant	Conducted Power (dBm)	EIRP (dBm)		Verdict
					Total	Limit	
CC1:60	CC1:3580.02	QPSK	1	23.82	25.82	/	Pass
			4X4	29.84	31.84	/	Pass
		256QAM	1	23.70	25.70	/	Pass
			4X4	29.72	31.72	/	Pass
	CC1:3624.99	QPSK	1	24.19	26.19	/	Pass
			4X4	30.21	32.21	/	Pass
		256QAM	1	24.07	26.07	/	Pass
			4X4	30.09	32.09	/	Pass
	CC1:3669.99	QPSK	1	23.79	25.79	/	Pass
			4X4	29.81	31.81	/	Pass
		256QAM	1	23.62	25.62	/	Pass
			4X4	29.64	31.64	/	Pass
CC1:80	CC1:3590.01	QPSK	1	24.08	26.08	/	Pass
			4X4	30.10	32.10	/	Pass
		256QAM	1	23.81	25.81	/	Pass
			4X4	29.83	31.83	/	Pass
	CC1:3624.99	QPSK	1	24.09	26.09	/	Pass
			4X4	30.11	32.11	/	Pass
		256QAM	1	23.96	25.96	/	Pass
			4X4	29.98	31.98	/	Pass
	CC1:3660	QPSK	1	23.93	25.93	/	Pass
			4X4	29.95	31.95	/	Pass
		256QAM	1	23.67	25.67	/	Pass
			4X4	29.69	31.69	/	Pass
CC1:100	CC1:3600	QPSK	1	24.17	26.17	/	Pass
			4X4	30.19	32.19	/	Pass
		256QAM	1	24.01	26.01	/	Pass
			4X4	30.03	32.03	/	Pass
	CC1:3624.99	QPSK	1	24.02	26.02	/	Pass
			4X4	30.04	32.04	/	Pass
		256QAM	1	23.83	25.83	/	Pass
			4X4	29.85	31.85	/	Pass
	CC1:3649.98	QPSK	1	23.90	25.90	/	Pass
			4X4	29.92	31.92	/	Pass
		256QAM	1	23.76	25.76	/	Pass
			4X4	29.78	31.78	/	Pass

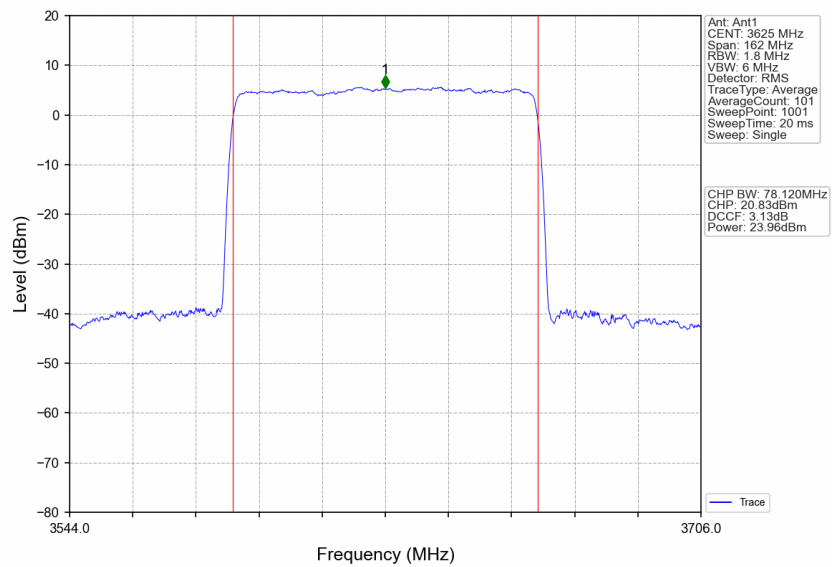
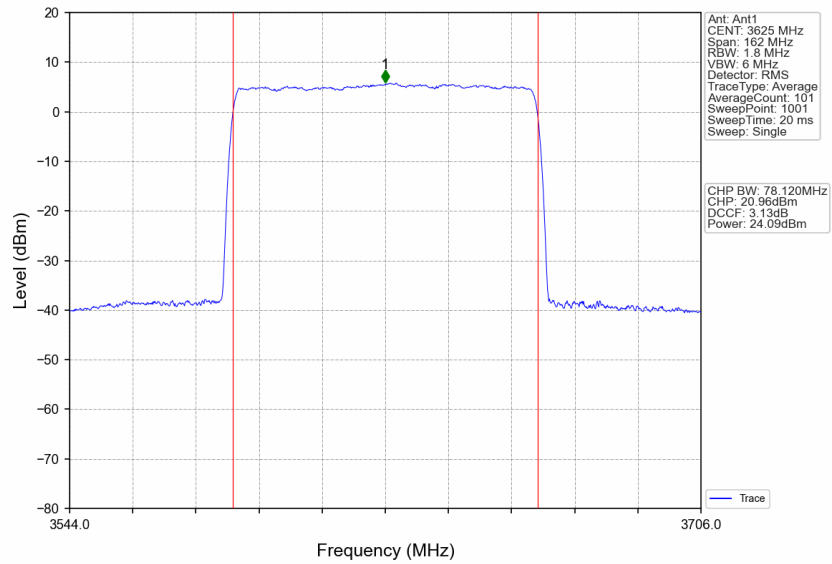
2.1.2 Test Graph

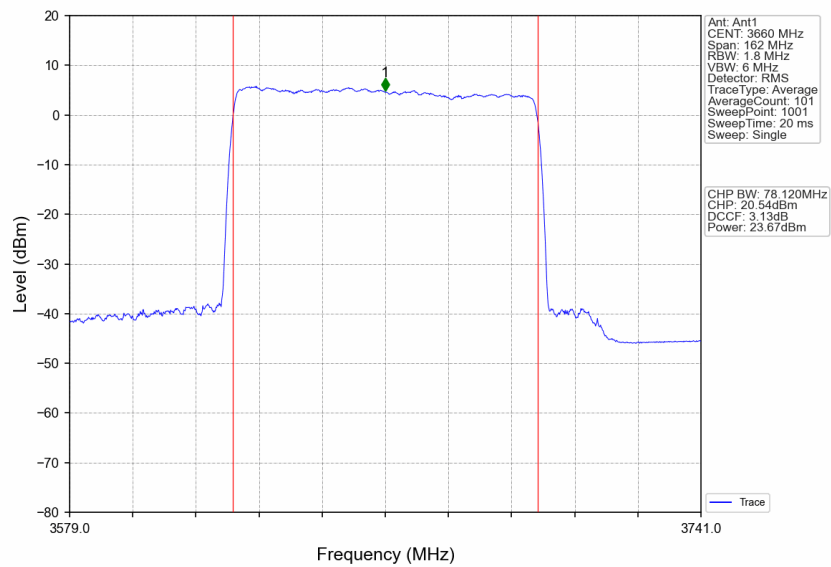
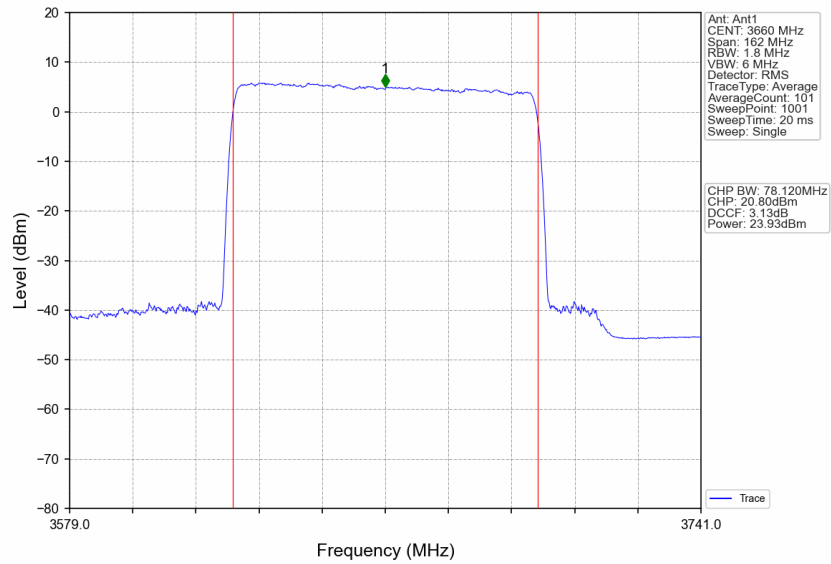


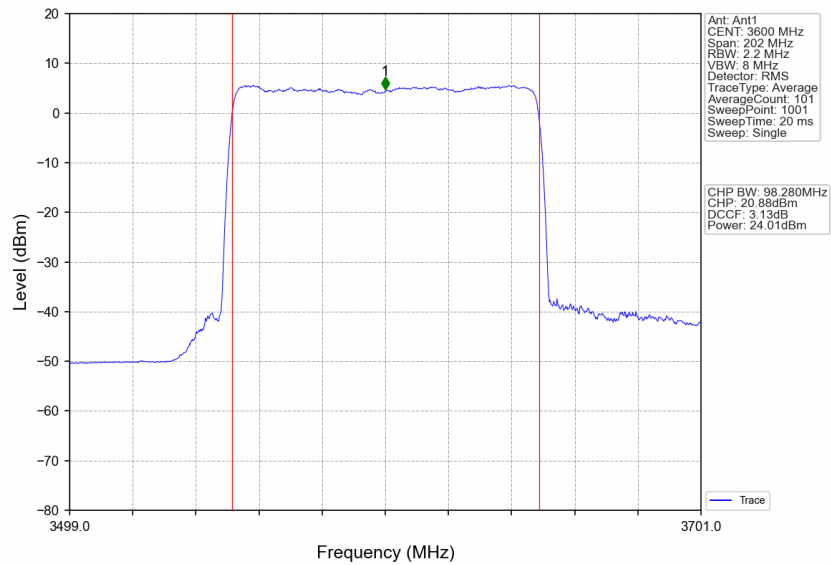
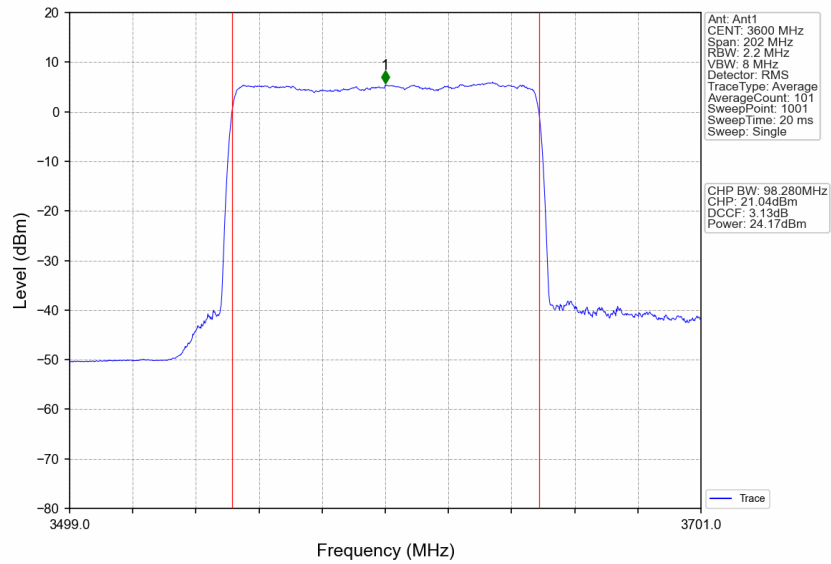


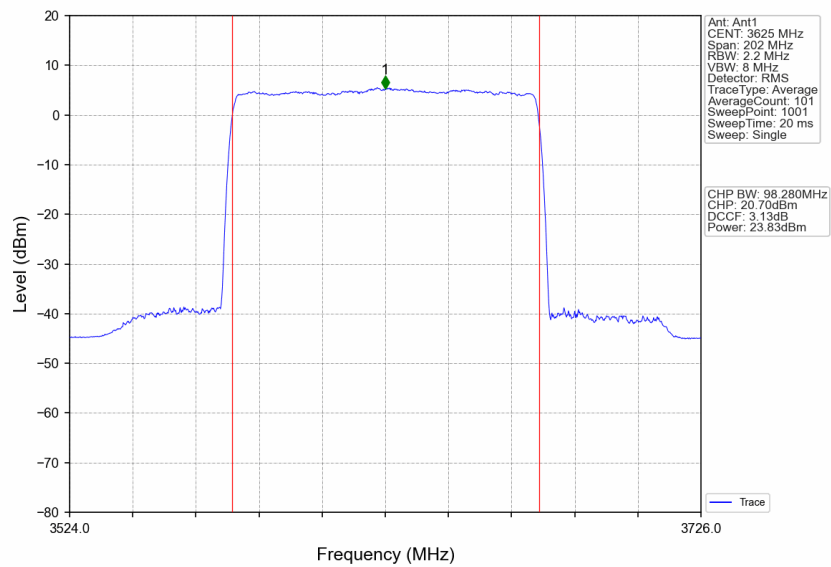
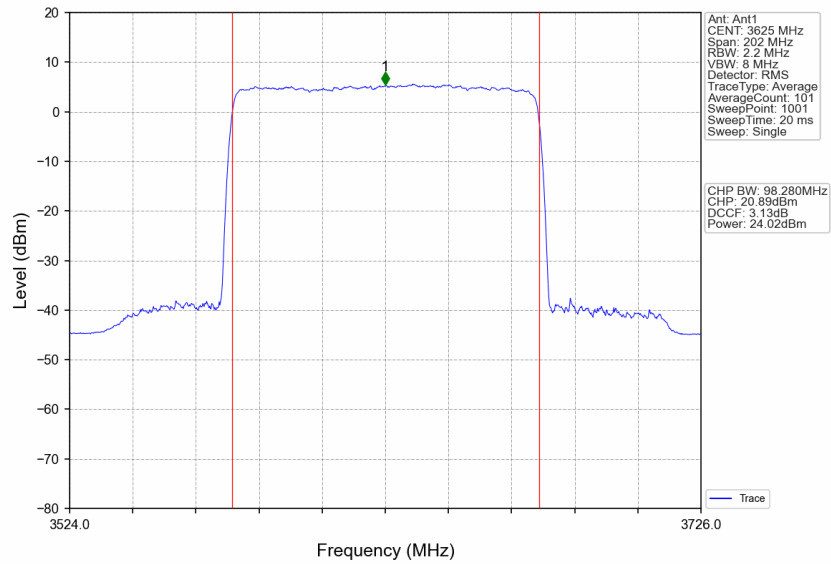


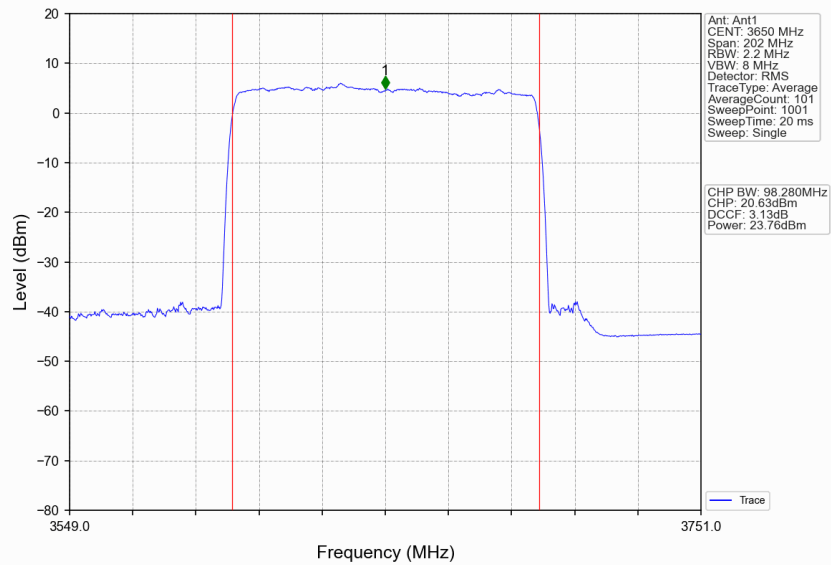
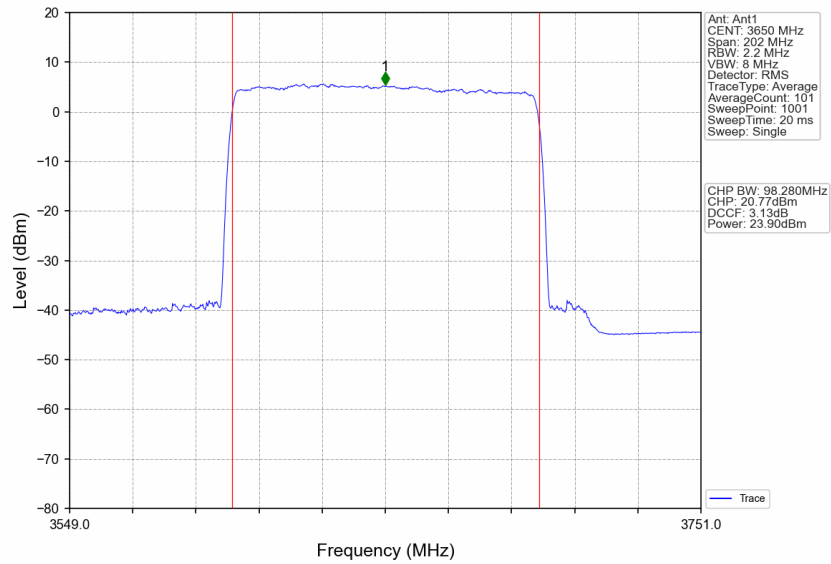










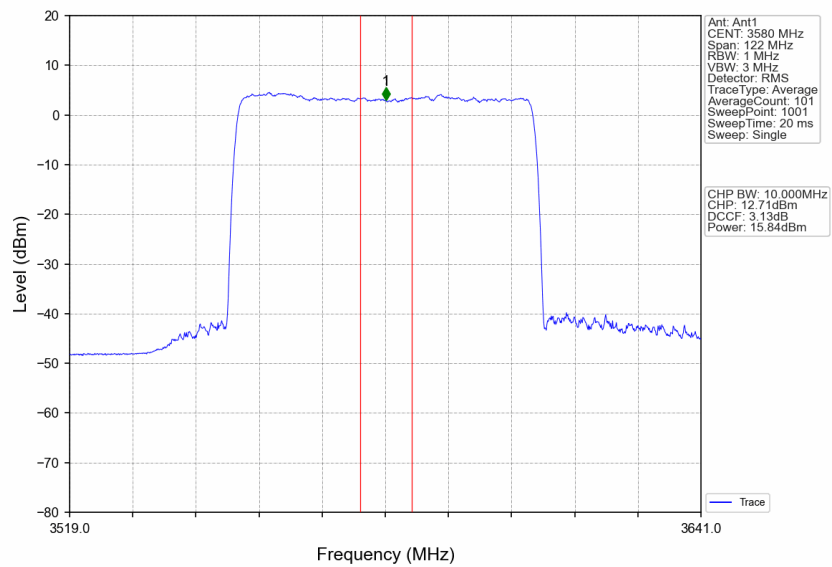
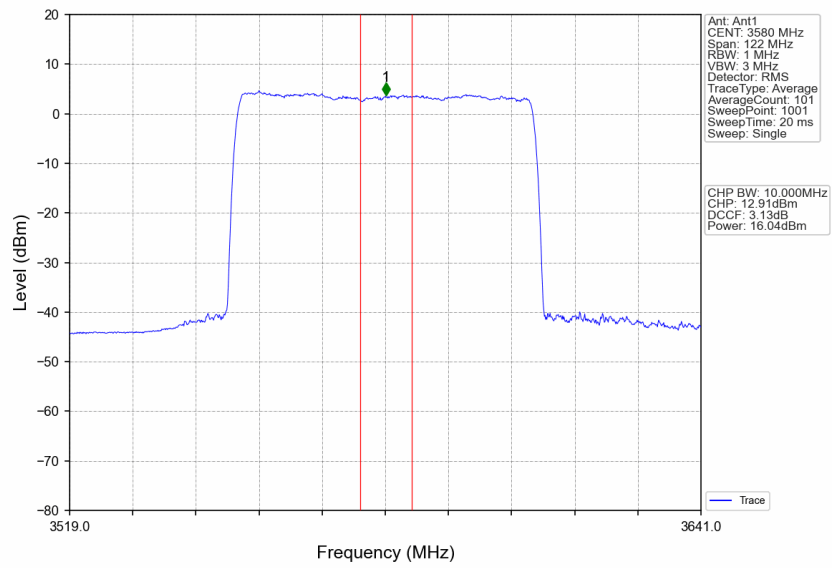


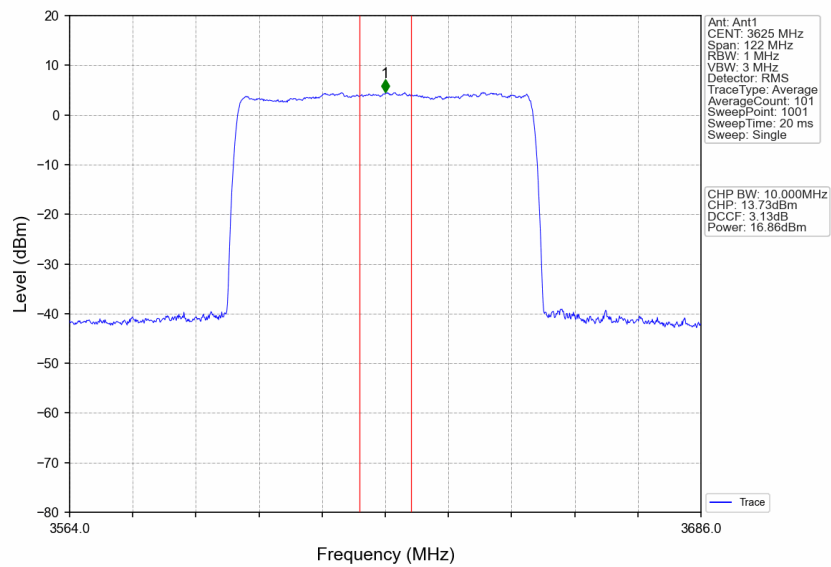
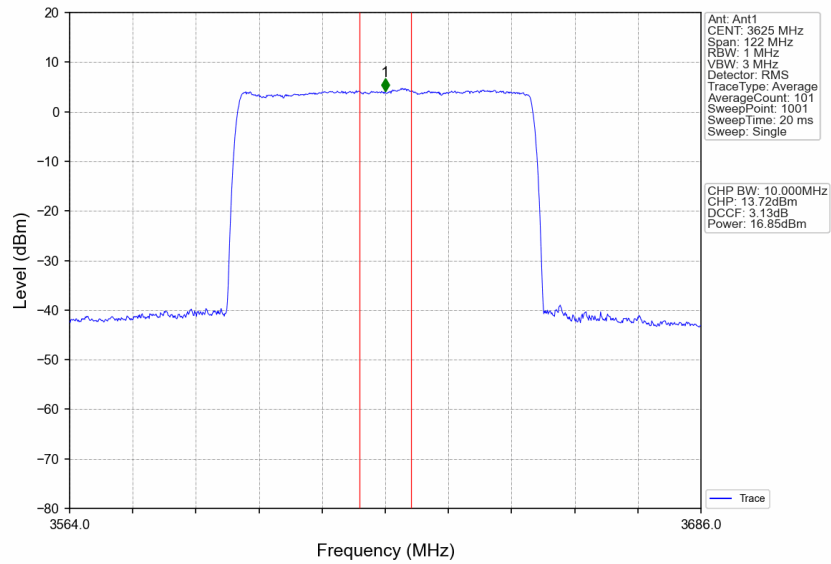
2.2 30_Single_Power2

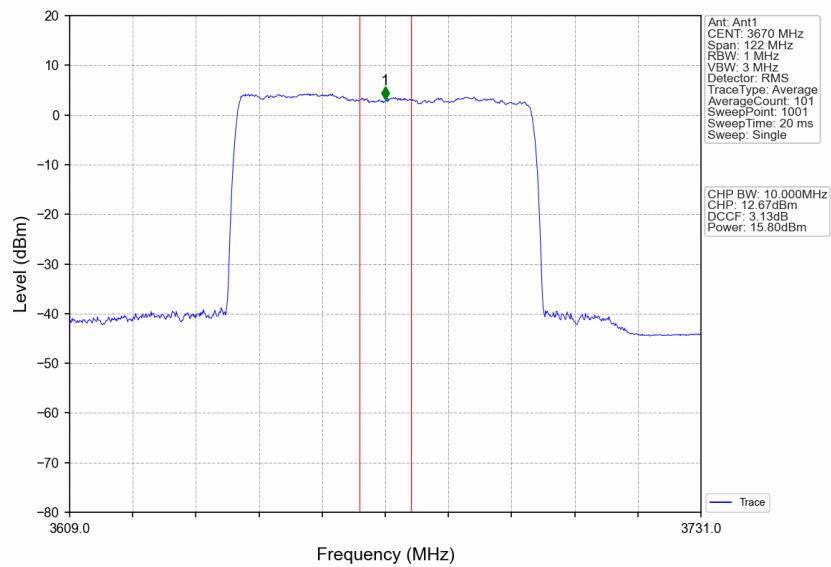
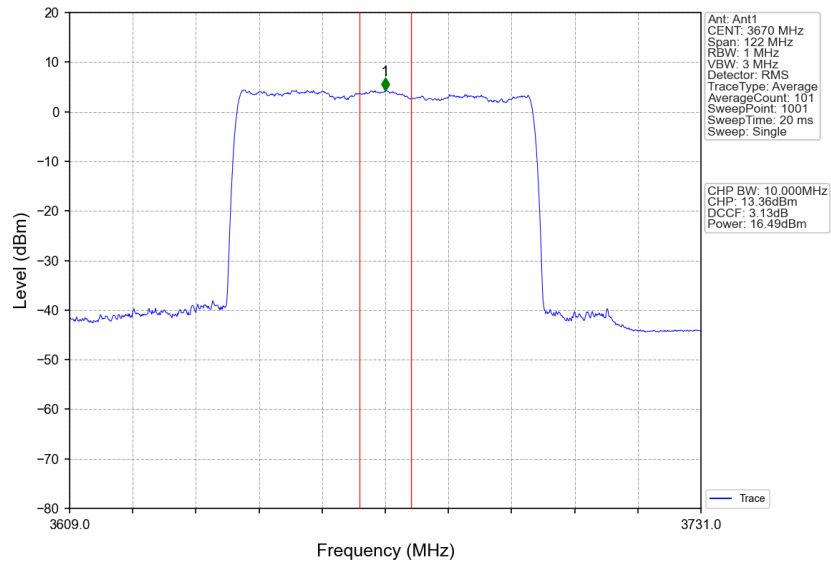
2.2.1 Test Result

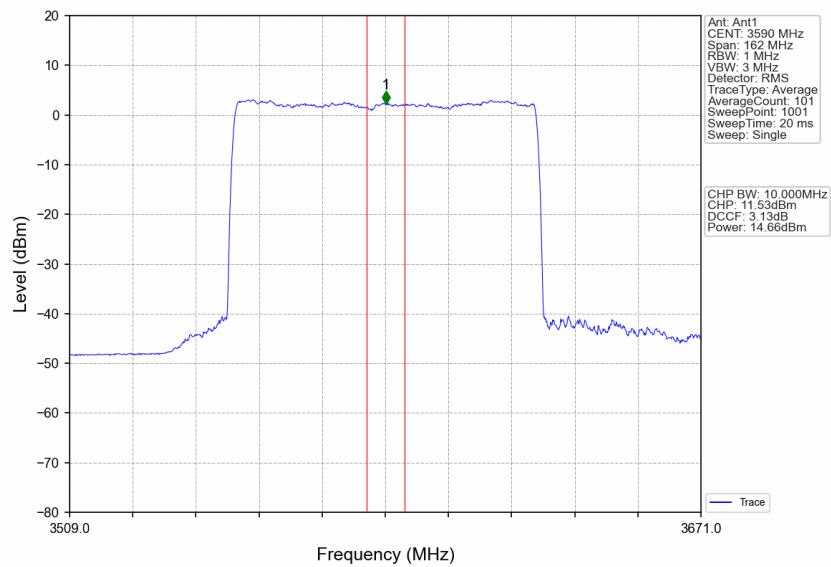
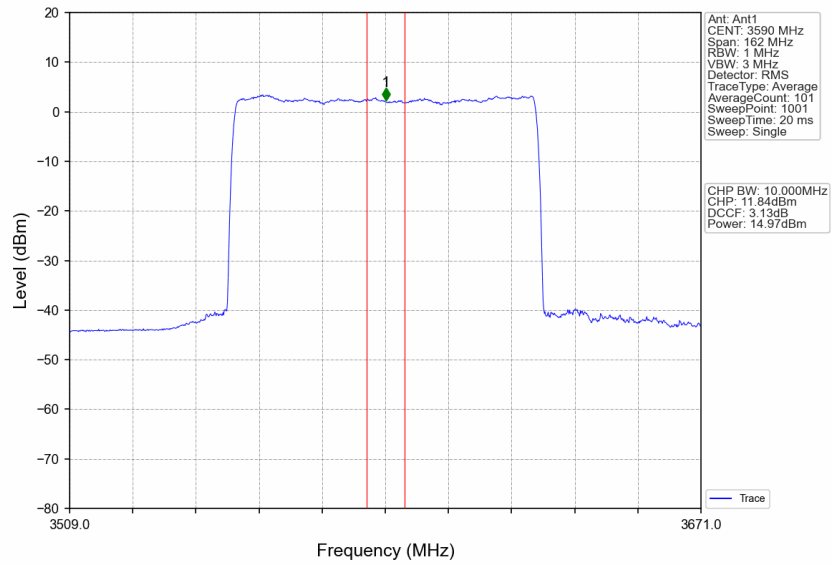
Band n48&77&78 Single NTNV							
BW (MHz)	DL Frequency (MHz)	Test Mode	Ant	Conducted Power (dBm/MHz)	EIRP (dBm/MHz)		Verdict
					Total	Limit	
CC1:60	CC1:3580.02	QPSK	1	7.57	9.57	<=20	Pass
			4X4	13.59	15.59	<=20	Pass
		256QAM	1	7.32	9.32	<=20	Pass
			4X4	13.34	15.34	<=20	Pass
	CC1:3624.99	QPSK	1	7.78	9.78	<=20	Pass
			4X4	13.80	15.80	<=20	Pass
		256QAM	1	7.67	9.67	<=20	Pass
			4X4	13.69	15.69	<=20	Pass
	CC1:3669.99	QPSK	1	7.58	9.58	<=20	Pass
			4X4	13.60	15.60	<=20	Pass
		256QAM	1	7.51	9.51	<=20	Pass
			4X4	13.53	15.53	<=20	Pass
CC1:80	CC1:3590.01	QPSK	1	6.36	8.36	<=20	Pass
			4X4	12.38	14.38	<=20	Pass
		256QAM	1	6.10	8.10	<=20	Pass
			4X4	12.12	14.12	<=20	Pass
	CC1:3624.99	QPSK	1	6.52	8.52	<=20	Pass
			4X4	12.54	14.54	<=20	Pass
		256QAM	1	6.39	8.39	<=20	Pass
			4X4	12.41	14.41	<=20	Pass
	CC1:3660	QPSK	1	6.65	8.65	<=20	Pass
			4X4	12.67	14.67	<=20	Pass
		256QAM	1	6.26	8.26	<=20	Pass
			4X4	12.28	14.28	<=20	Pass
CC1:100	CC1:3600	QPSK	1	5.61	7.61	<=20	Pass
			4X4	11.63	13.63	<=20	Pass
		256QAM	1	5.95	7.95	<=20	Pass
			4X4	11.97	13.97	<=20	Pass
	CC1:3624.99	QPSK	1	5.23	7.23	<=20	Pass
			4X4	11.25	13.25	<=20	Pass
		256QAM	1	5.16	7.16	<=20	Pass
			4X4	11.18	13.18	<=20	Pass
	CC1:3649.98	QPSK	1	5.37	7.37	<=20	Pass
			4X4	11.39	13.39	<=20	Pass
		256QAM	1	5.34	7.34	<=20	Pass
			4X4	11.36	13.36	<=20	Pass

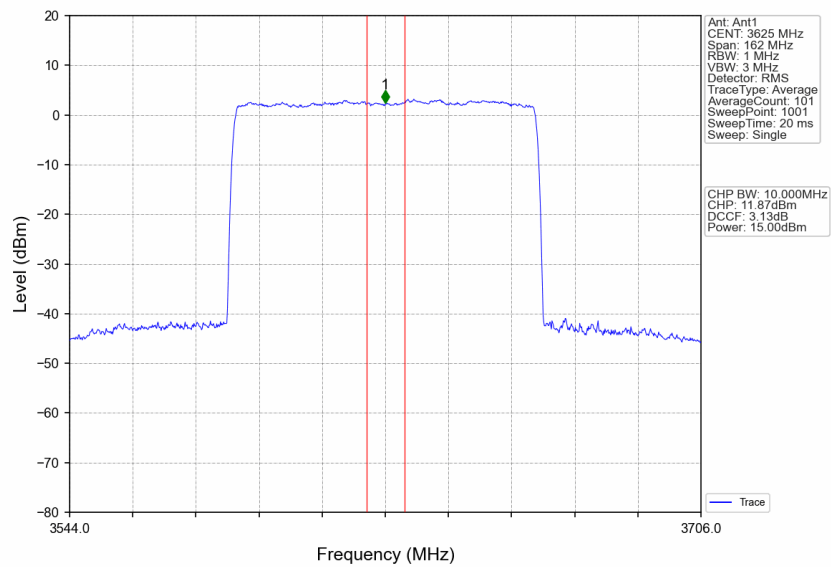
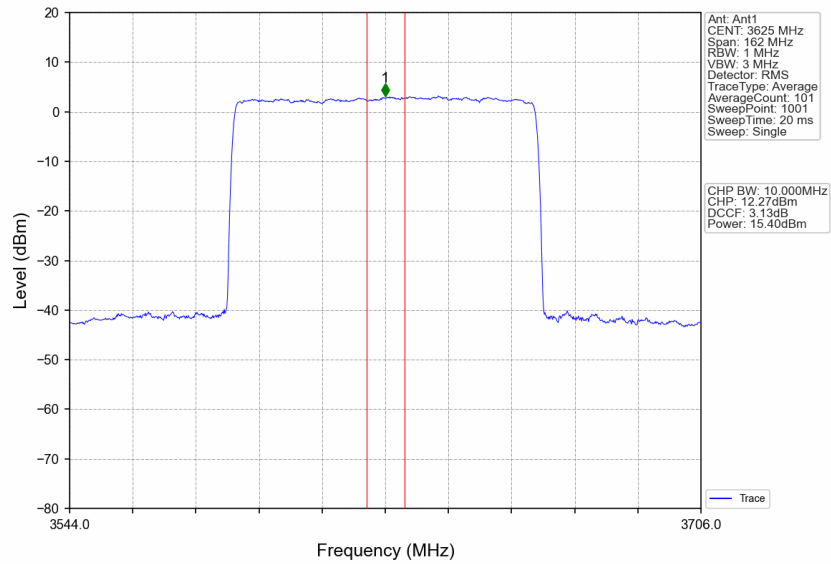
2.2.2 Test Graph

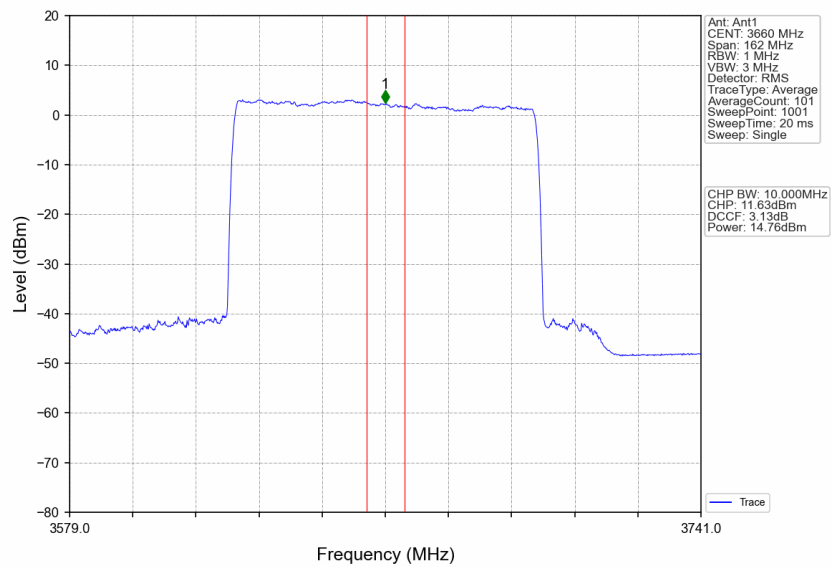
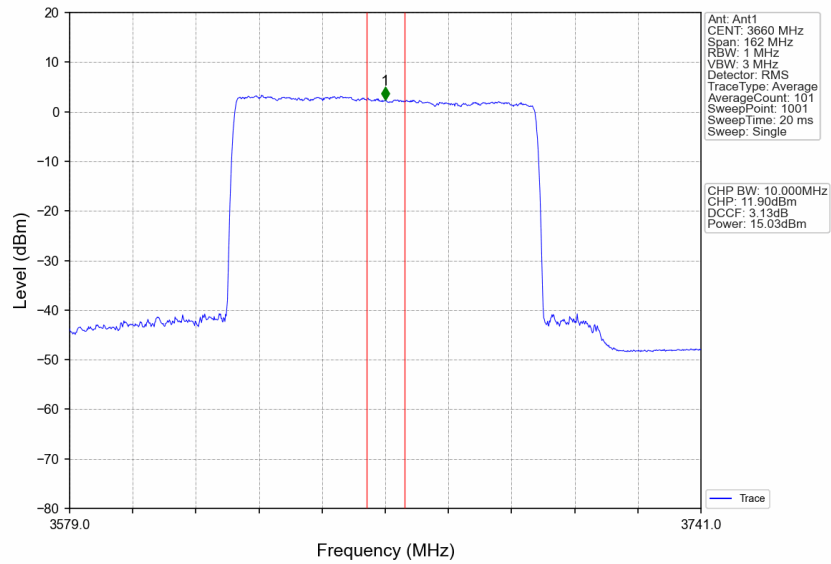


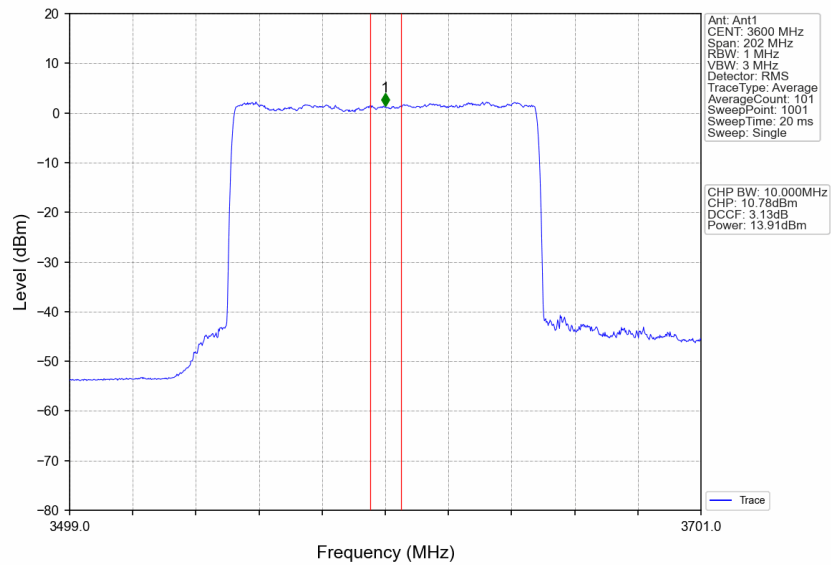
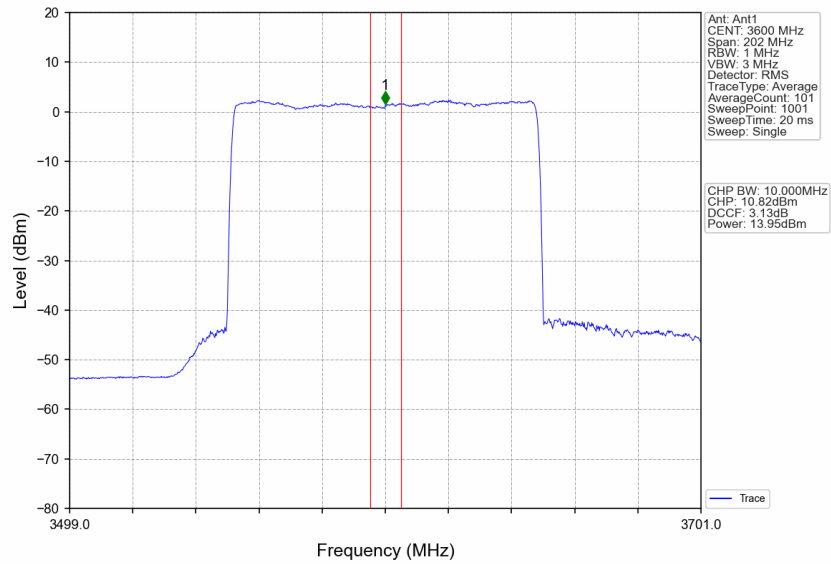


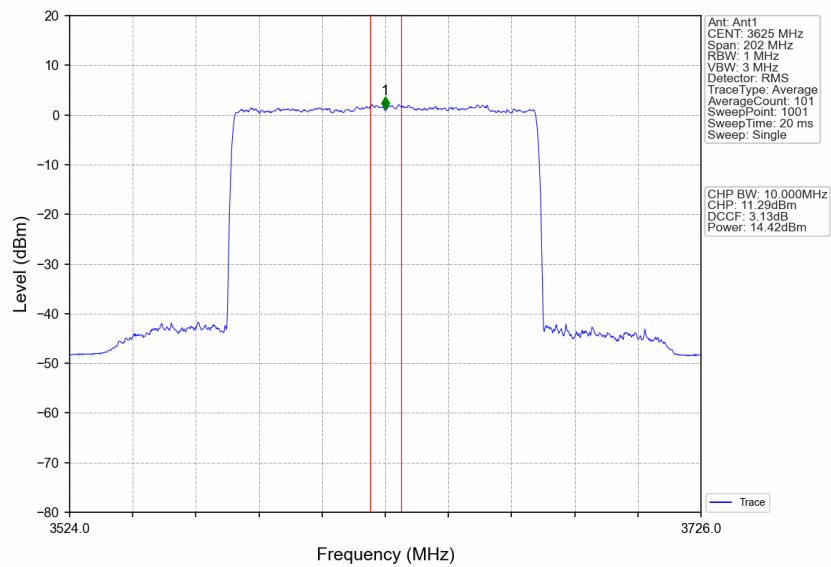
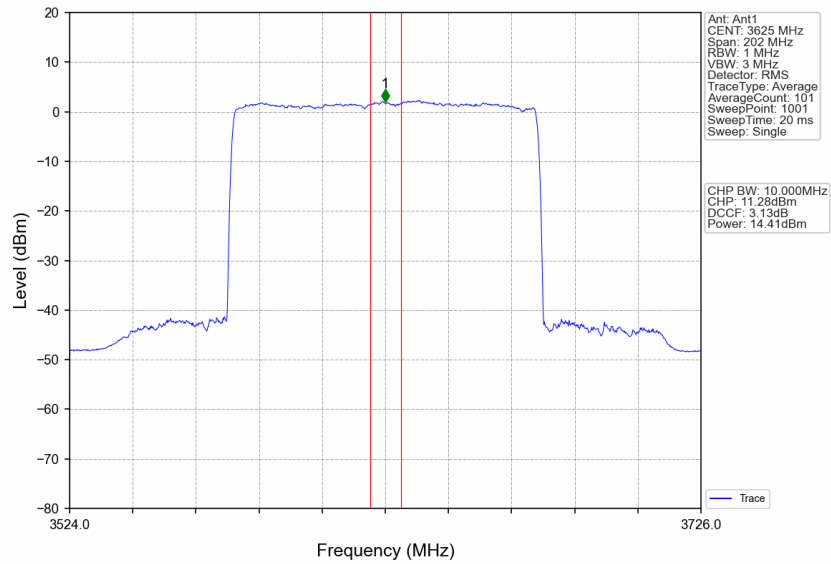


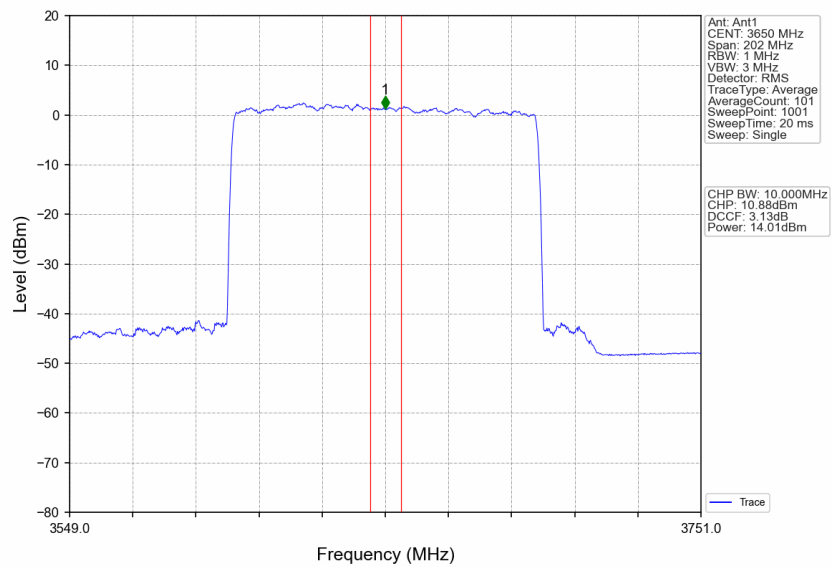
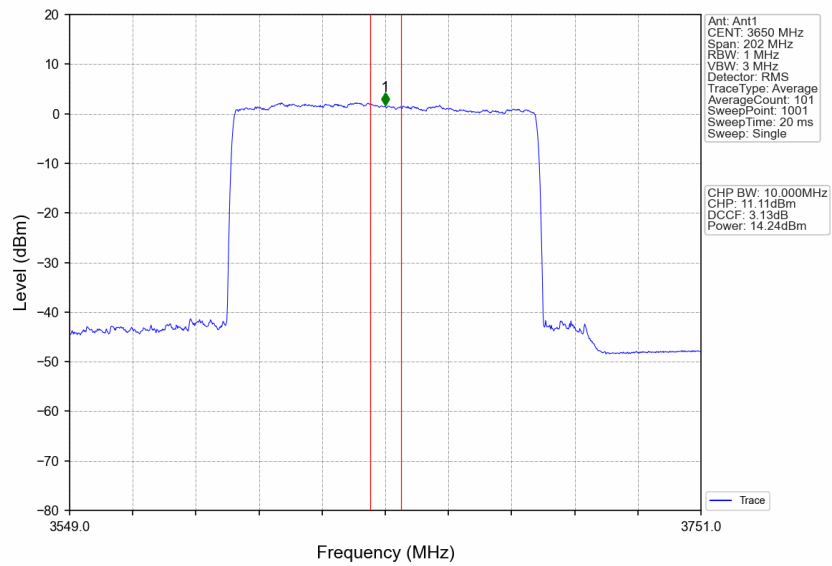










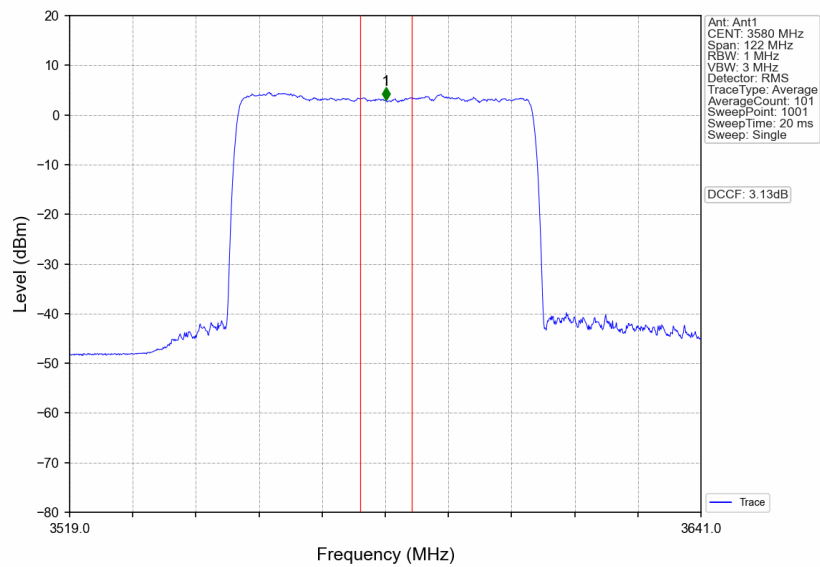
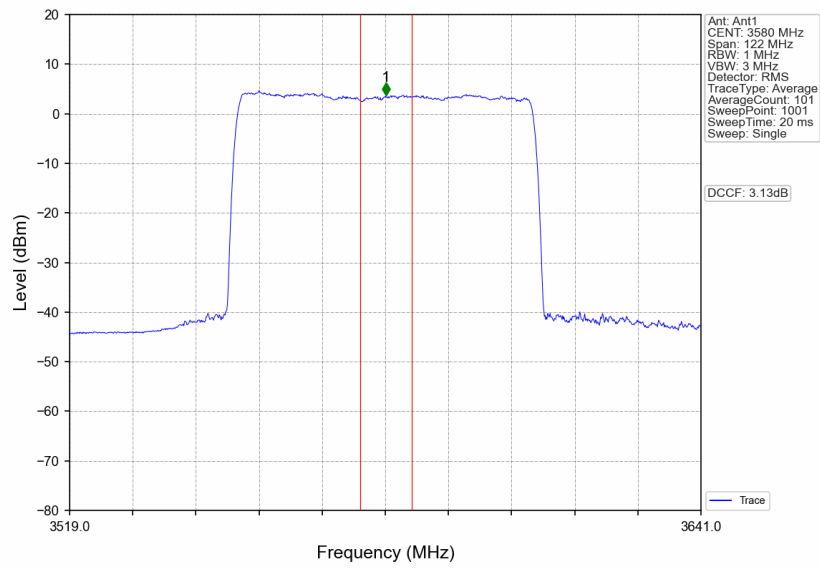


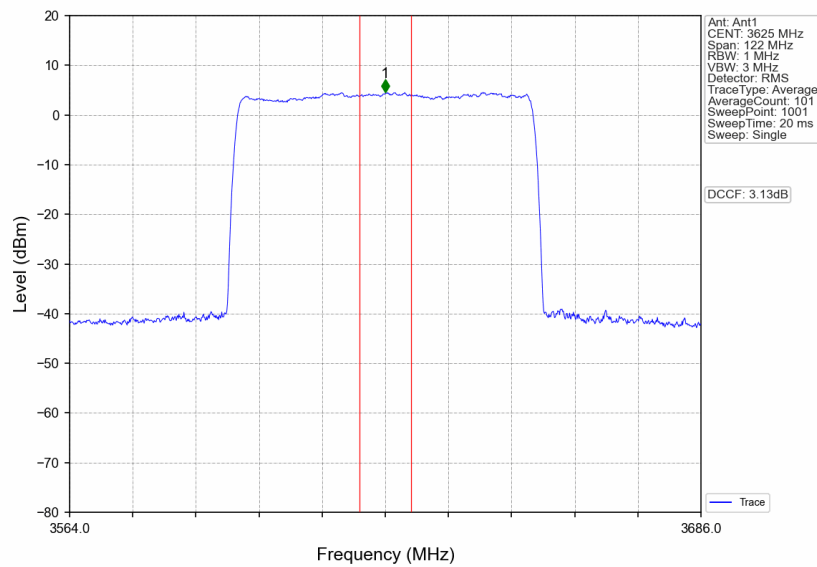
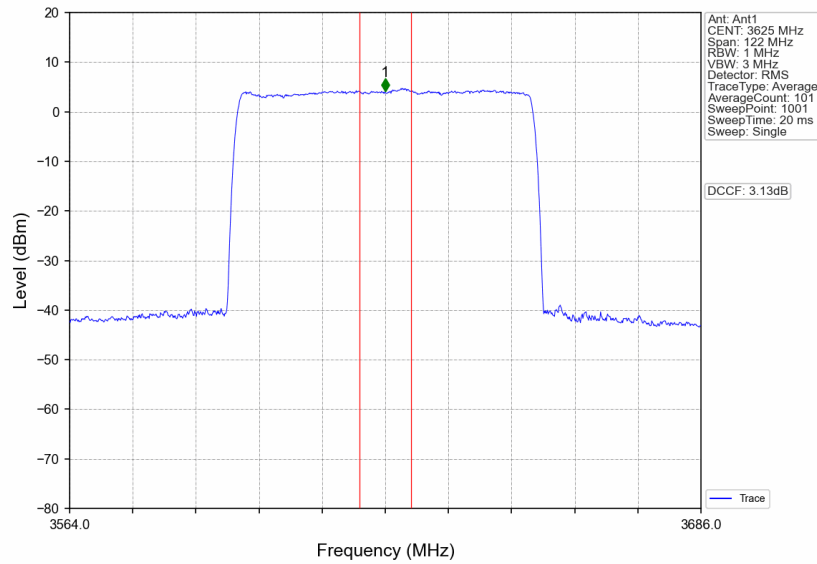
2.3 30_Single_Power3

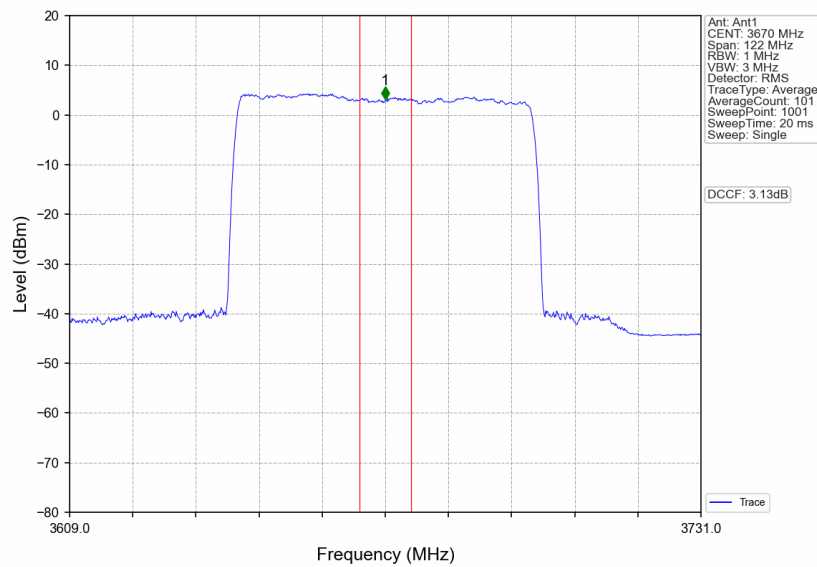
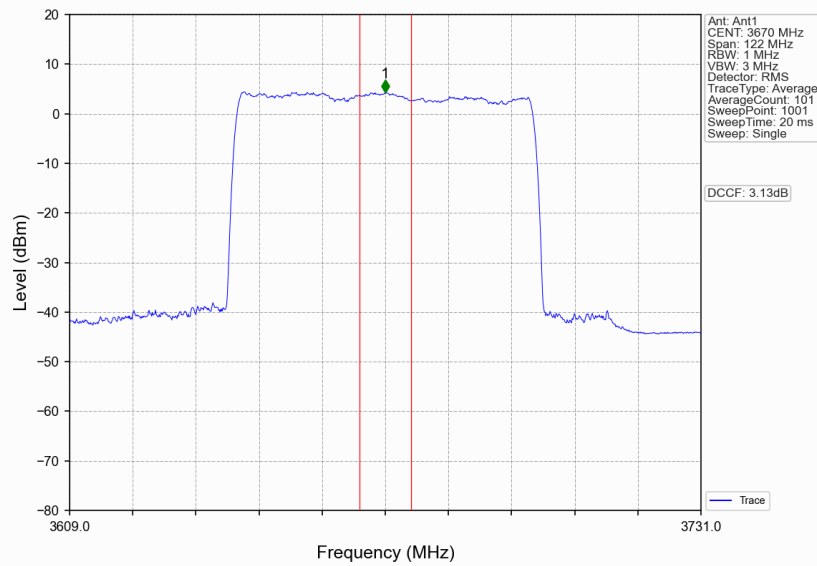
2.3.1 Test Result

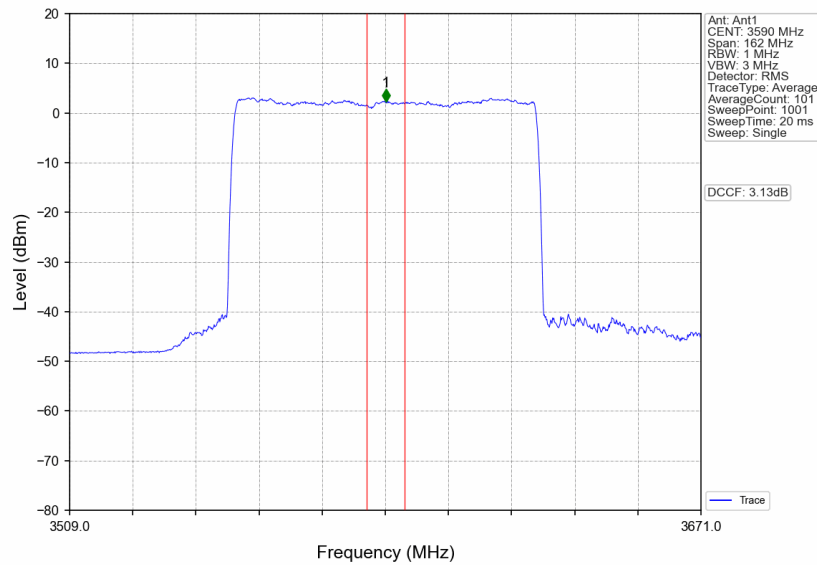
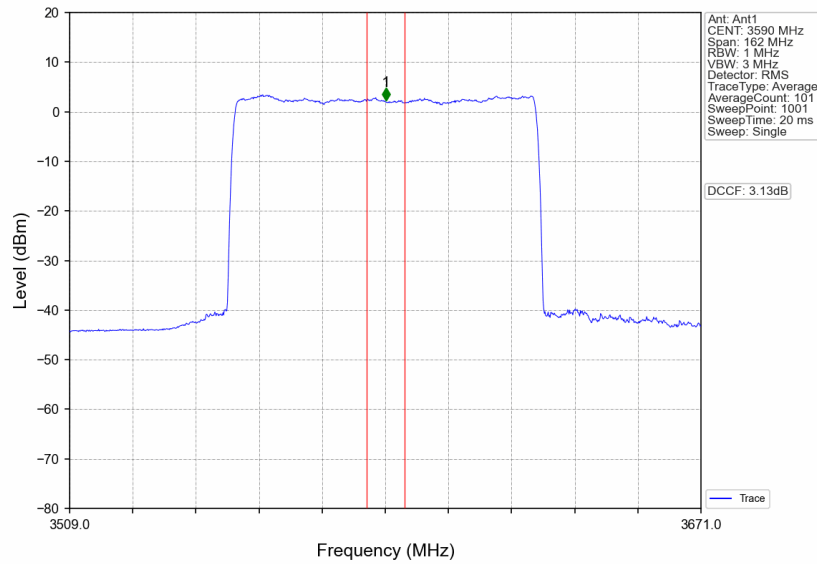
Band n48&77&78 Single NTNV							
BW (MHz)	DL Frequency (MHz)	Test Mode	Ant	Conducted Power (dBm/10MHz)	EIRP (dBm/10MHz)		Verdict
					Total	Limit	
CC1:60	CC1:3580.02	QPSK	1	16.04	18.04	<=30	Pass
			4X4	22.06	24.06	<=30	Pass
		256QAM	1	15.84	17.84	<=30	Pass
			4X4	21.86	23.86	<=30	Pass
	CC1:3624.99	QPSK	1	16.85	18.85	<=30	Pass
			4X4	22.87	24.87	<=30	Pass
		256QAM	1	16.86	18.86	<=30	Pass
			4X4	22.88	24.88	<=30	Pass
	CC1:3669.99	QPSK	1	16.49	18.49	<=30	Pass
			4X4	22.51	24.51	<=30	Pass
		256QAM	1	15.80	17.80	<=30	Pass
			4X4	21.82	23.82	<=30	Pass
CC1:80	CC1:3590.01	QPSK	1	14.97	16.97	<=30	Pass
			4X4	20.99	22.99	<=30	Pass
		256QAM	1	14.66	16.66	<=30	Pass
			4X4	20.68	22.68	<=30	Pass
	CC1:3624.99	QPSK	1	15.40	17.40	<=30	Pass
			4X4	21.42	23.42	<=30	Pass
		256QAM	1	15.00	17.00	<=30	Pass
			4X4	21.02	23.02	<=30	Pass
	CC1:3660	QPSK	1	15.03	17.03	<=30	Pass
			4X4	21.05	23.05	<=30	Pass
		256QAM	1	14.76	16.76	<=30	Pass
			4X4	20.78	22.78	<=30	Pass
CC1:100	CC1:3600	QPSK	1	13.95	15.95	<=30	Pass
			4X4	19.97	21.97	<=30	Pass
		256QAM	1	13.91	15.91	<=30	Pass
			4X4	19.93	21.93	<=30	Pass
	CC1:3624.99	QPSK	1	14.41	16.41	<=30	Pass
			4X4	20.43	22.43	<=30	Pass
		256QAM	1	14.42	16.42	<=30	Pass
			4X4	20.44	22.44	<=30	Pass
	CC1:3649.98	QPSK	1	14.24	16.24	<=30	Pass
			4X4	20.26	22.26	<=30	Pass
		256QAM	1	14.01	16.01	<=30	Pass
			4X4	20.03	22.03	<=30	Pass

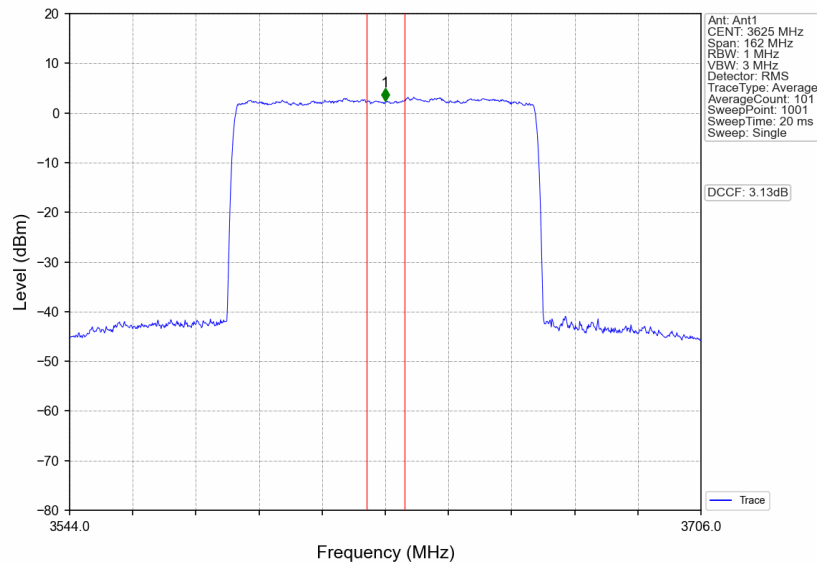
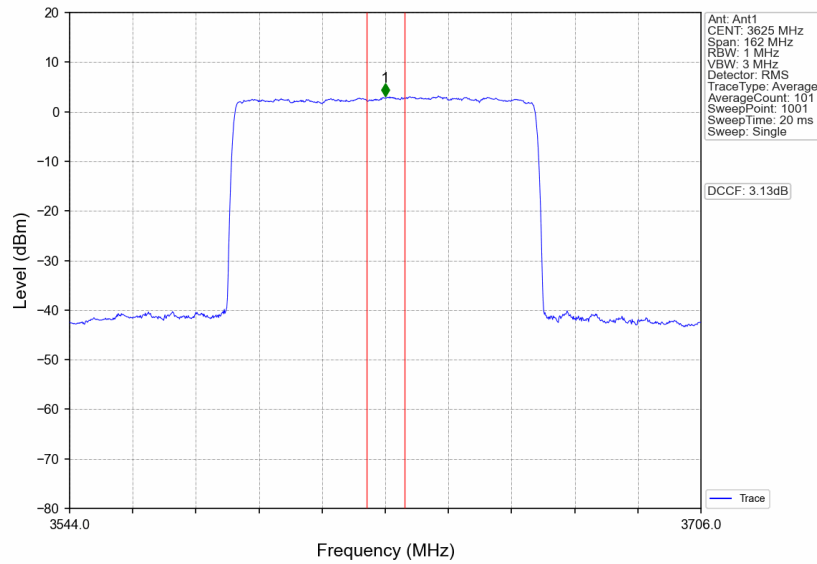
2.3.2 Test Graph

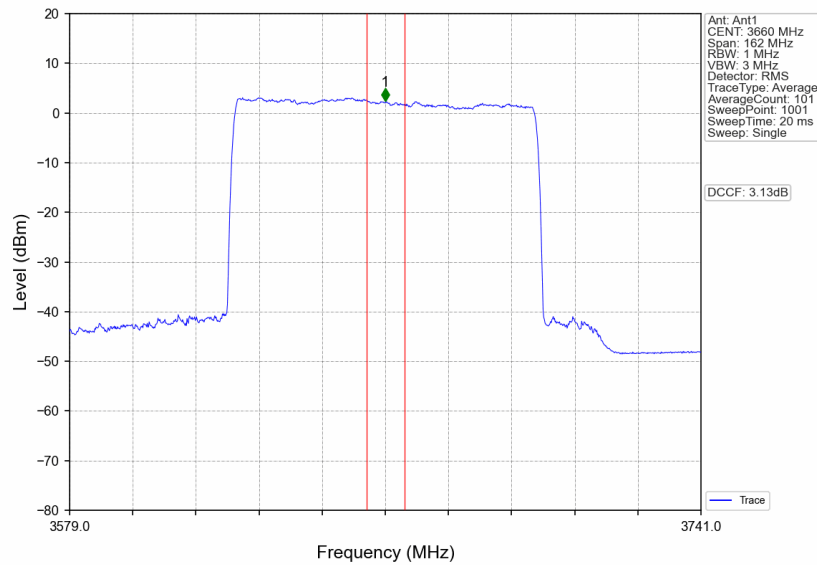
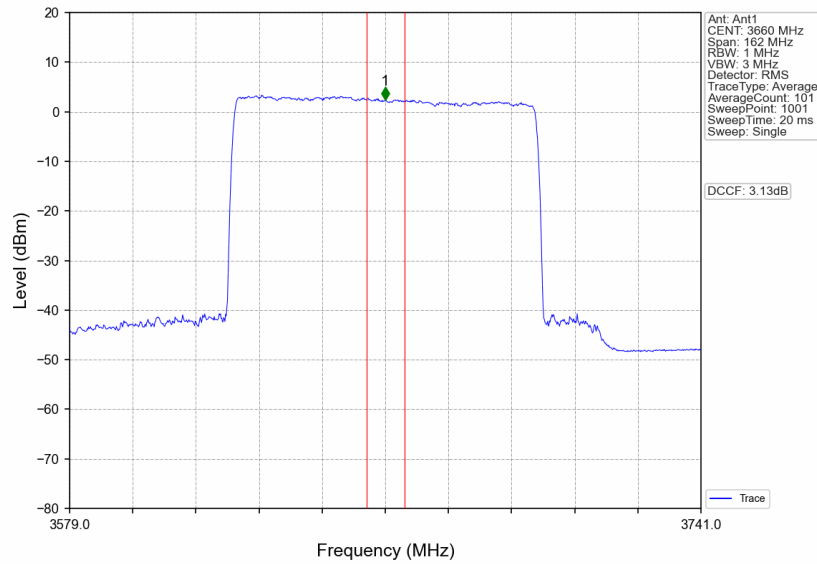


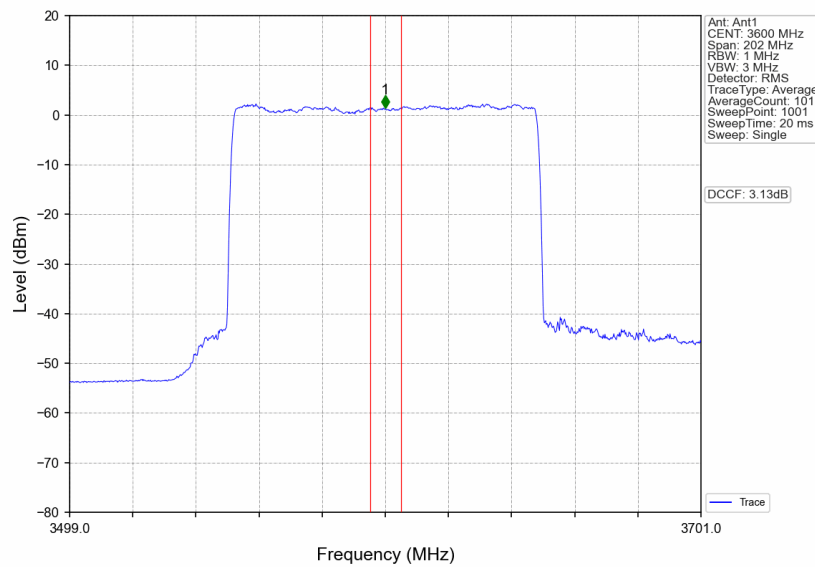
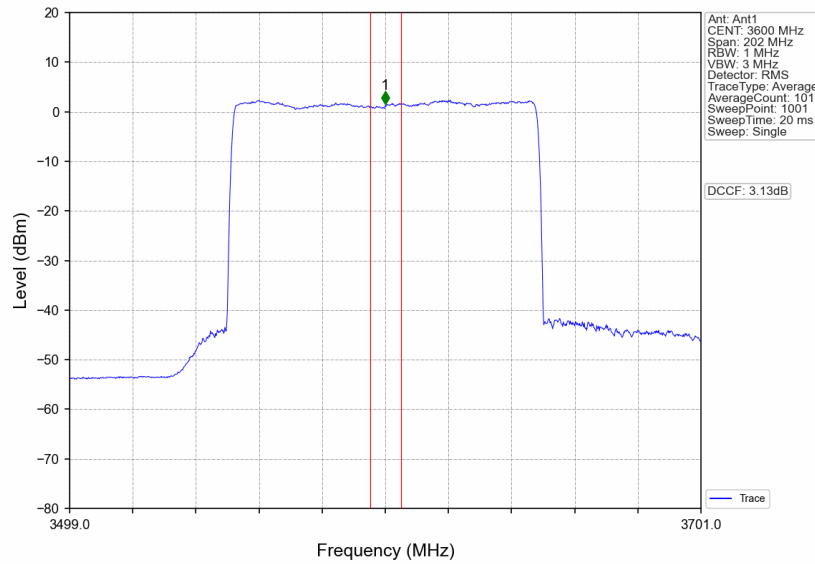


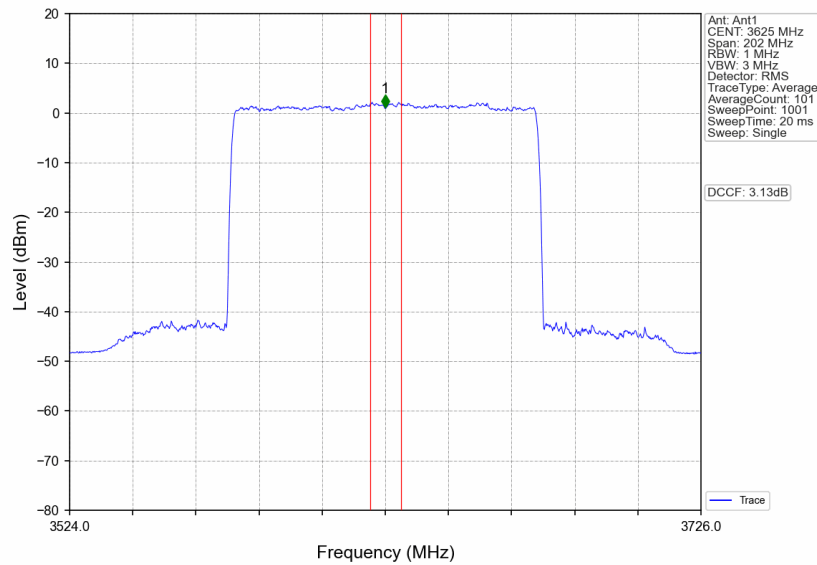
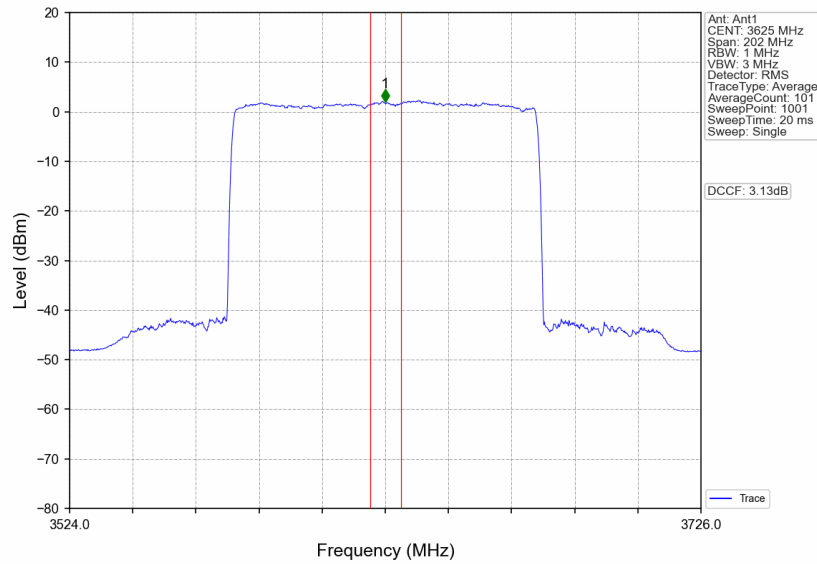


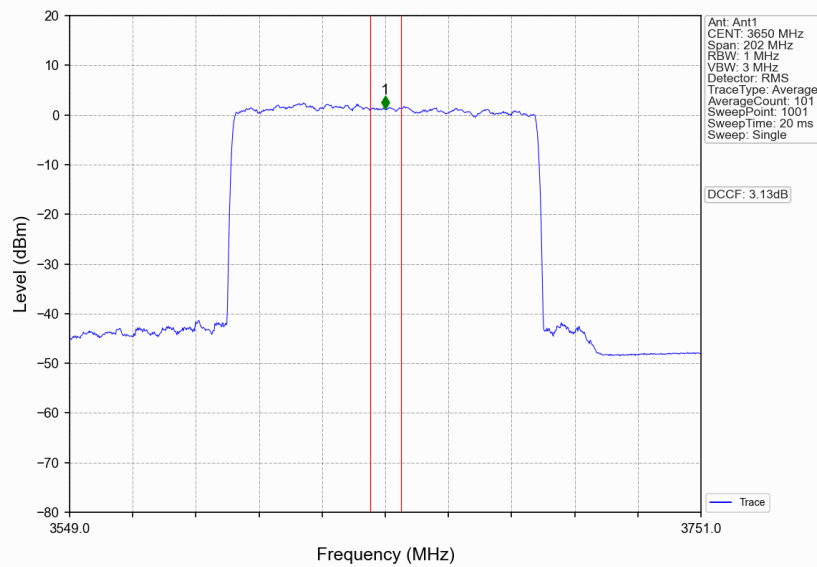
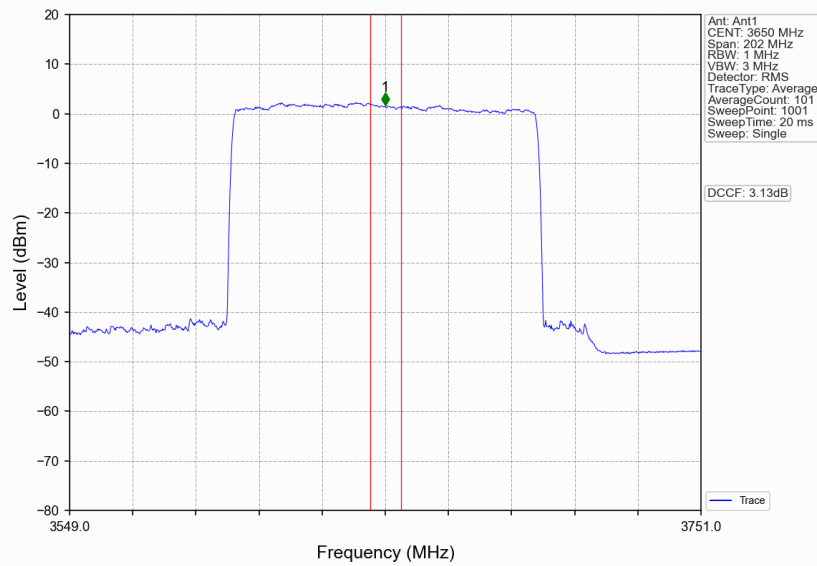












3. Frequency Stability

3.1 30_Single_Ant1

3.1.1 Test Result

Band n48&77&78 Single NTV Ant1							
BW (MHz)	DL Frequency (MHz)	Test Mode	Temp. (°C)	Voltage (VDC)	Result (MHz)	Limit (MHz)	Verdict
CC1:60	CC1:3580.02	QPSK	20	40.8	3551.537	>3550	Pass
				48.0	3551.512	>3550	Pass
				55.2	3551.540	>3550	Pass
			-30	48.0	3551.526	>3550	Pass
			-20	48.0	3551.515	>3550	Pass
			-10	48.0	3551.502	>3550	Pass
			0	48.0	3551.534	>3550	Pass
			10	48.0	3551.519	>3550	Pass
			30	48.0	3551.559	>3550	Pass
			40	48.0	3551.523	>3550	Pass
			50	48.0	3551.541	>3550	Pass
		256QAM	20	40.8	3551.558	>3550	Pass
				48.0	3551.511	>3550	Pass
				55.2	3551.537	>3550	Pass
			-30	48.0	3551.521	>3550	Pass
			-20	48.0	3551.505	>3550	Pass
			-10	48.0	3551.517	>3550	Pass
			0	48.0	3551.528	>3550	Pass
			10	48.0	3551.546	>3550	Pass
			30	48.0	3551.522	>3550	Pass
			40	48.0	3551.509	>3550	Pass
			50	48.0	3551.518	>3550	Pass
	CC1:3669.99	QPSK	20	40.8	3698.543	<3700	Pass
				48.0	3698.529	<3700	Pass
				55.2	3698.551	<3700	Pass
			-30	48.0	3698.514	<3700	Pass
			-20	48.0	3698.528	<3700	Pass
			-10	48.0	3698.536	<3700	Pass
			0	48.0	3698.544	<3700	Pass
			10	48.0	3698.564	<3700	Pass
			30	48.0	3698.508	<3700	Pass
			40	48.0	3698.517	<3700	Pass
			50	48.0	3698.530	<3700	Pass
		256QAM	20	40.8	3698.525	<3700	Pass
				48.0	3698.504	<3700	Pass
				55.2	3698.516	<3700	Pass
			-30	48.0	3698.538	<3700	Pass
			-20	48.0	3698.522	<3700	Pass
			-10	48.0	3698.557	<3700	Pass
			0	48.0	3698.516	<3700	Pass
			10	48.0	3698.505	<3700	Pass
			30	48.0	3698.512	<3700	Pass
			40	48.0	3698.524	<3700	Pass
			50	48.0	3698.537	<3700	Pass
CC1:80	CC1:3590.01	QPSK	20	40.8	3551.473	>3550	Pass
				48.0	3551.481	>3550	Pass
				55.2	3551.468	>3550	Pass

			-30	48.0	3551.457	>3550	Pass
			-20	48.0	3551.495	>3550	Pass
			-10	48.0	3551.482	>3550	Pass
			0	48.0	3551.477	>3550	Pass
			10	48.0	3551.460	>3550	Pass
			30	48.0	3551.466	>3550	Pass
			40	48.0	3551.487	>3550	Pass
			50	48.0	3551.471	>3550	Pass
		256QAM	20	40.8	3551.363	>3550	Pass
				48.0	3551.390	>3550	Pass
				55.2	3551.378	>3550	Pass
			-30	48.0	3551.364	>3550	Pass
			-20	48.0	3551.385	>3550	Pass
			-10	48.0	3551.342	>3550	Pass
			0	48.0	3551.354	>3550	Pass
			10	48.0	3551.387	>3550	Pass
			30	48.0	3551.376	>3550	Pass
			40	48.0	3551.340	>3550	Pass
			50	48.0	3551.369	>3550	Pass
		QPSK	20	40.8	3698.444	<3700	Pass
				48.0	3698.432	<3700	Pass
				55.2	3698.468	<3700	Pass
			-30	48.0	3698.461	<3700	Pass
			-20	48.0	3698.475	<3700	Pass
			-10	48.0	3698.463	<3700	Pass
			0	48.0	3698.458	<3700	Pass
			10	48.0	3698.439	<3700	Pass
			30	48.0	3698.421	<3700	Pass
			40	48.0	3698.418	<3700	Pass
			50	48.0	3698.411	<3700	Pass
		256QAM	20	40.8	3698.417	<3700	Pass
				48.0	3698.435	<3700	Pass
				55.2	3698.423	<3700	Pass
			-30	48.0	3698.455	<3700	Pass
			-20	48.0	3698.442	<3700	Pass
			-10	48.0	3698.460	<3700	Pass
			0	48.0	3698.452	<3700	Pass
			10	48.0	3698.478	<3700	Pass
			30	48.0	3698.441	<3700	Pass
			40	48.0	3698.404	<3700	Pass
			50	48.0	3698.415	<3700	Pass
CC1:100	CC1:3600	QPSK	20	40.8	3551.520	>3550	Pass
				48.0	3551.536	>3550	Pass
				55.2	3551.553	>3550	Pass
			-30	48.0	3551.561	>3550	Pass
			-20	48.0	3551.527	>3550	Pass
			-10	48.0	3551.532	>3550	Pass
			0	48.0	3551.575	>3550	Pass
			10	48.0	3551.531	>3550	Pass
			30	48.0	3551.522	>3550	Pass
			40	48.0	3551.513	>3550	Pass
			50	48.0	3551.529	>3550	Pass
		256QAM	20	40.8	3551.637	>3550	Pass
				48.0	3551.625	>3550	Pass
				55.2	3551.635	>3550	Pass
			-30	48.0	3551.665	>3550	Pass
			-20	48.0	3551.672	>3550	Pass
			-10	48.0	3551.624	>3550	Pass

			0	48.0	3551.658	>3550	Pass
			10	48.0	3551.654	>3550	Pass
			30	48.0	3551.616	>3550	Pass
			40	48.0	3551.621	>3550	Pass
			50	48.0	3551.678	>3550	Pass
	CC1:3649.98	QPSK	20	40.8	3698.004	<3700	Pass
				48.0	3698.021	<3700	Pass
				55.2	3698.017	<3700	Pass
			-30	48.0	3698.055	<3700	Pass
			-20	48.0	3698.045	<3700	Pass
			-10	48.0	3698.037	<3700	Pass
			0	48.0	3698.028	<3700	Pass
			10	48.0	3698.036	<3700	Pass
			30	48.0	3698.041	<3700	Pass
			40	48.0	3698.052	<3700	Pass
			50	48.0	3698.062	<3700	Pass
		256QAM	20	40.8	3698.227	<3700	Pass
				48.0	3698.267	<3700	Pass
				55.2	3698.239	<3700	Pass
			-30	48.0	3698.245	<3700	Pass
			-20	48.0	3698.231	<3700	Pass
			-10	48.0	3698.287	<3700	Pass
			0	48.0	3698.290	<3700	Pass
			10	48.0	3698.274	<3700	Pass
			30	48.0	3698.213	<3700	Pass
			40	48.0	3698.246	<3700	Pass
			50	48.0	3698.263	<3700	Pass

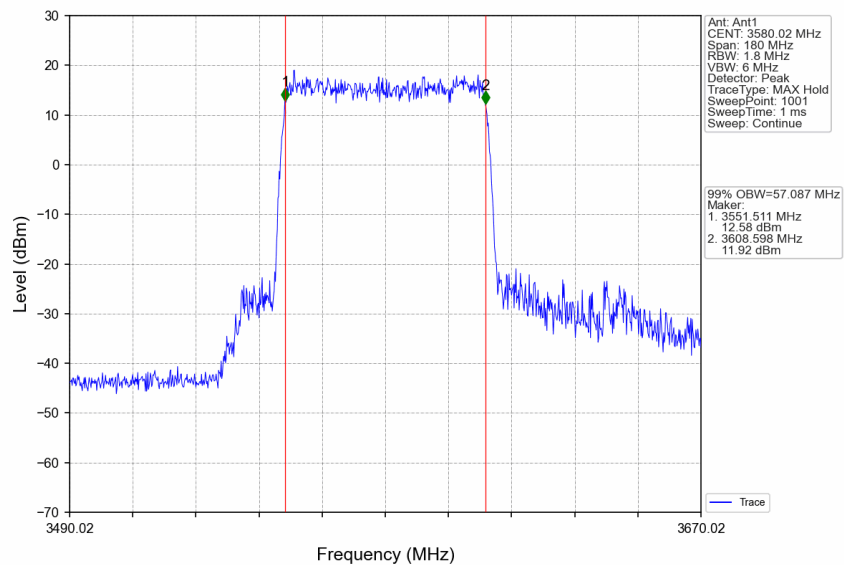
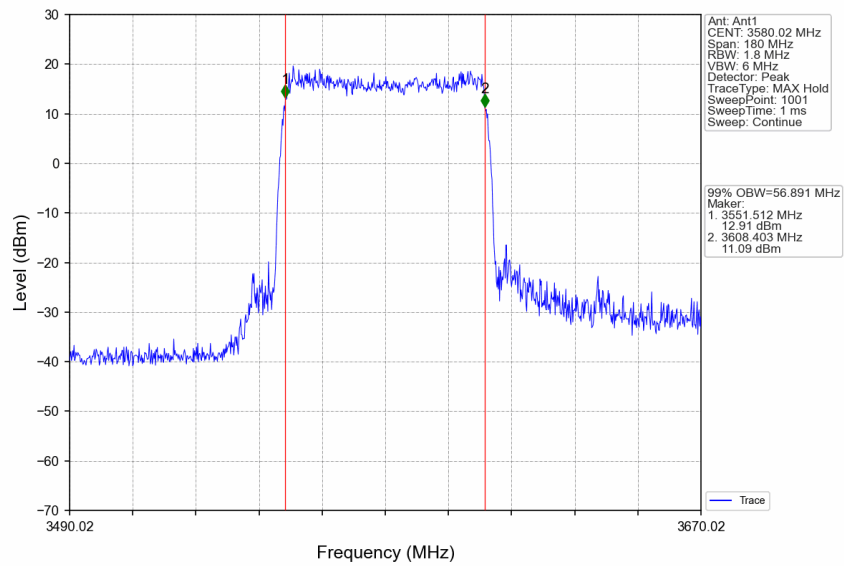
4. 99% & 26dB Bandwidth

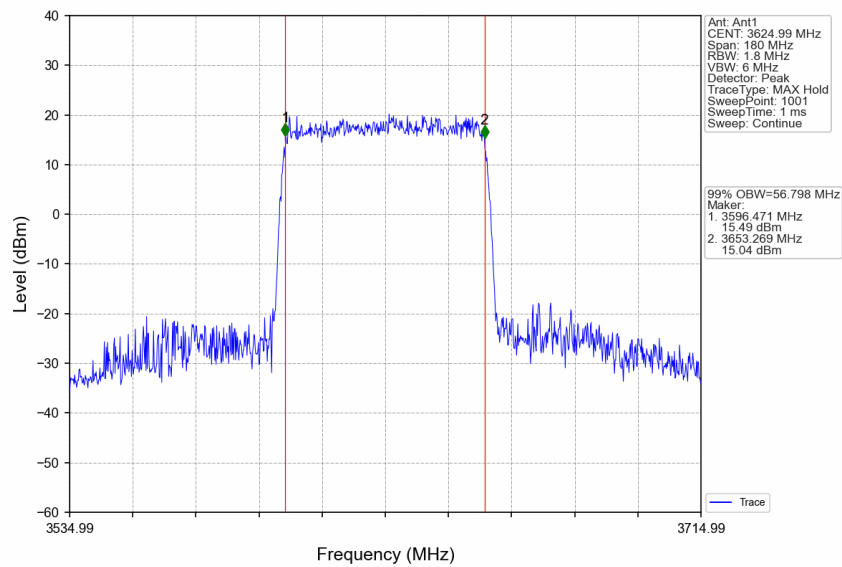
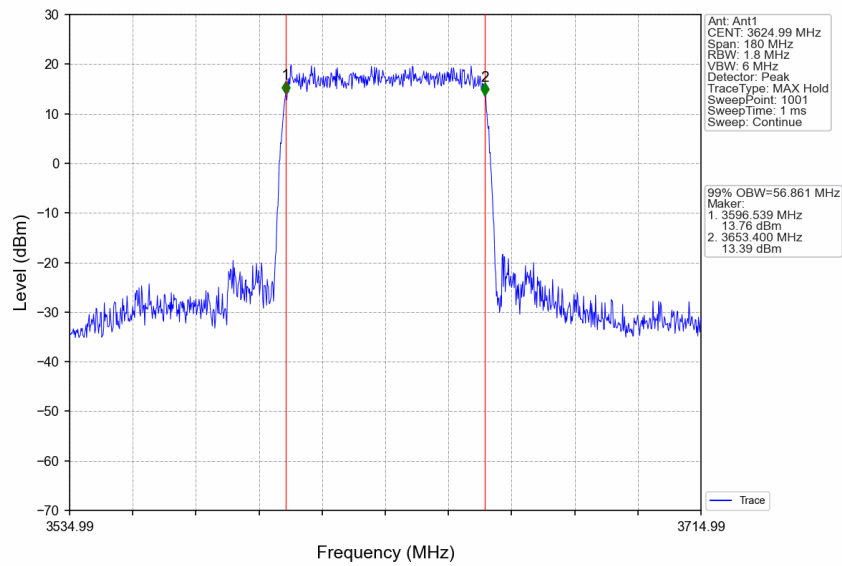
4.1 30_Single_OBW

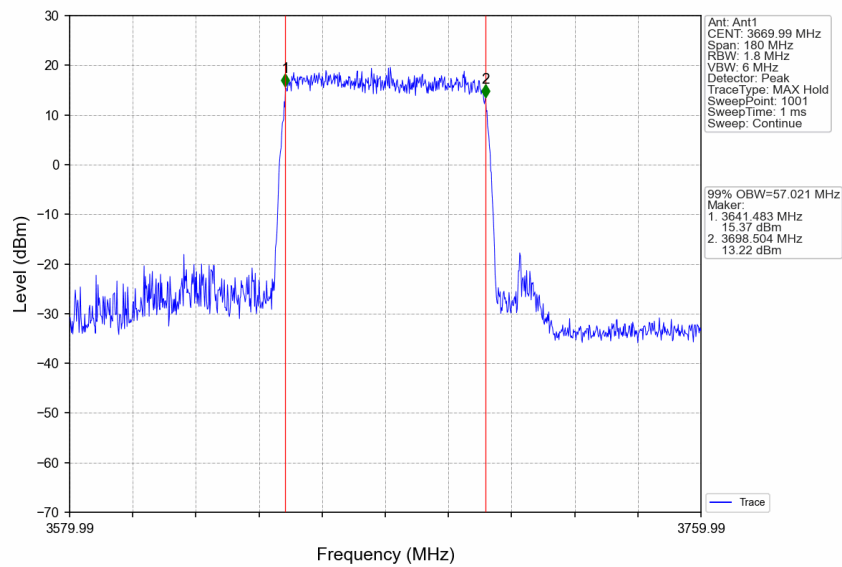
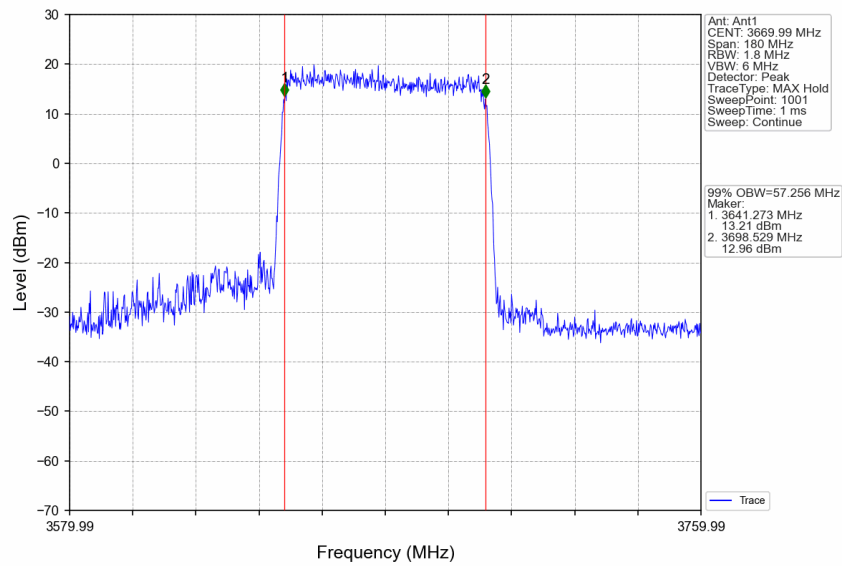
4.1.1 Test Result

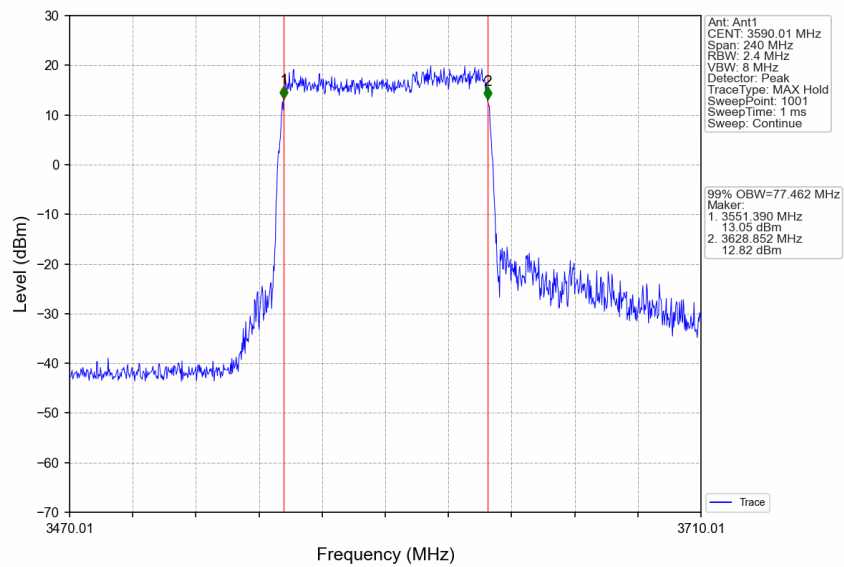
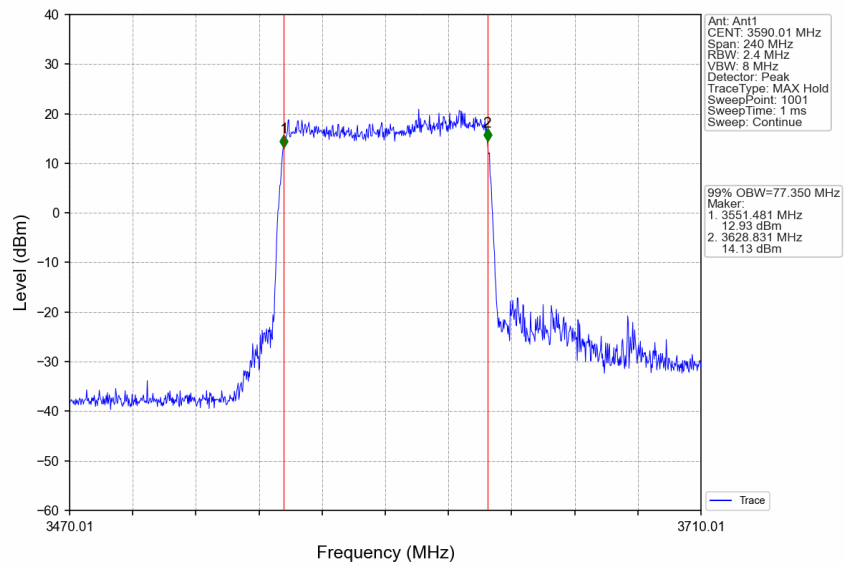
Band n48&77&78 Single NTN						
BW (MHz)	DL Frequency (MHz)	Test Mode	Ant No.	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
CC1:60	CC1:3580.02	QPSK	1	56.89	/	Pass
		256QAM	1	57.09	/	Pass
	CC1:3624.99	QPSK	1	56.86	/	Pass
		256QAM	1	56.80	/	Pass
	CC1:3669.99	QPSK	1	57.26	/	Pass
		256QAM	1	57.02	/	Pass
CC1:80	CC1:3590.01	QPSK	1	77.35	/	Pass
		256QAM	1	77.46	/	Pass
	CC1:3624.99	QPSK	1	77.03	/	Pass
		256QAM	1	77.23	/	Pass
	CC1:3660	QPSK	1	77.17	/	Pass
		256QAM	1	77.20	/	Pass
CC1:100	CC1:3600	QPSK	1	96.92	/	Pass
		256QAM	1	97.03	/	Pass
	CC1:3624.99	QPSK	1	96.44	/	Pass
		256QAM	1	96.88	/	Pass
	CC1:3649.98	QPSK	1	96.51	/	Pass
		256QAM	1	96.92	/	Pass

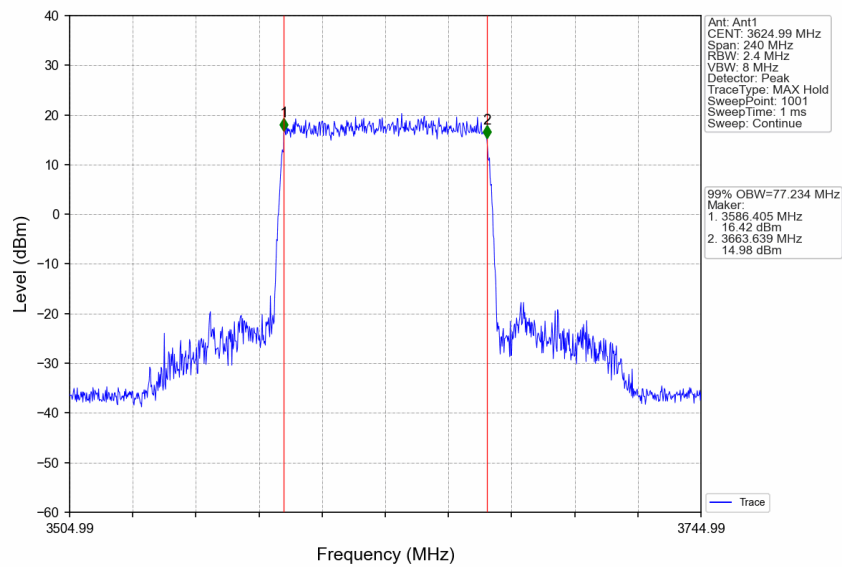
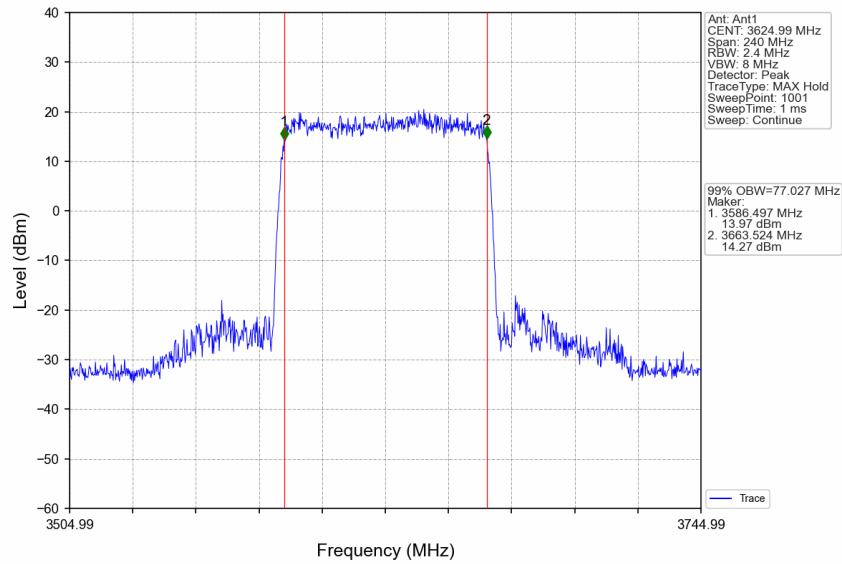
4.1.2 Test Graph

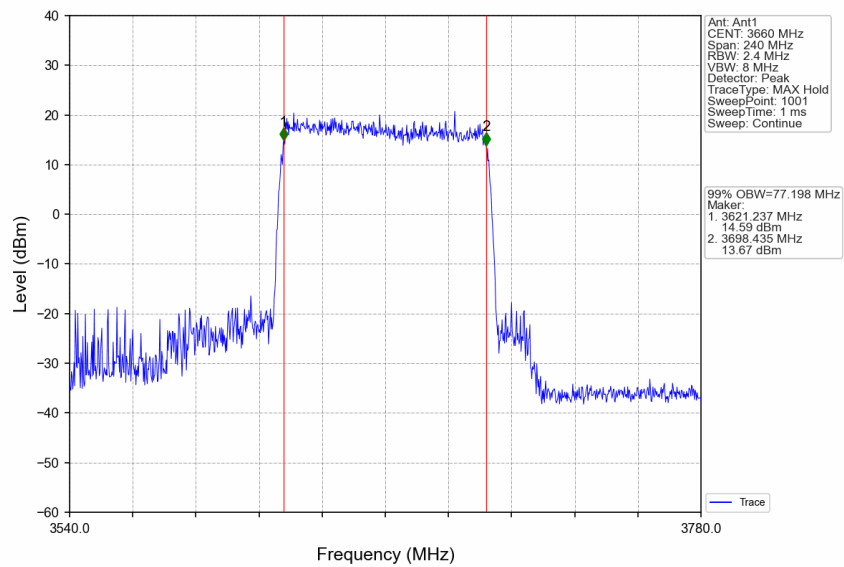
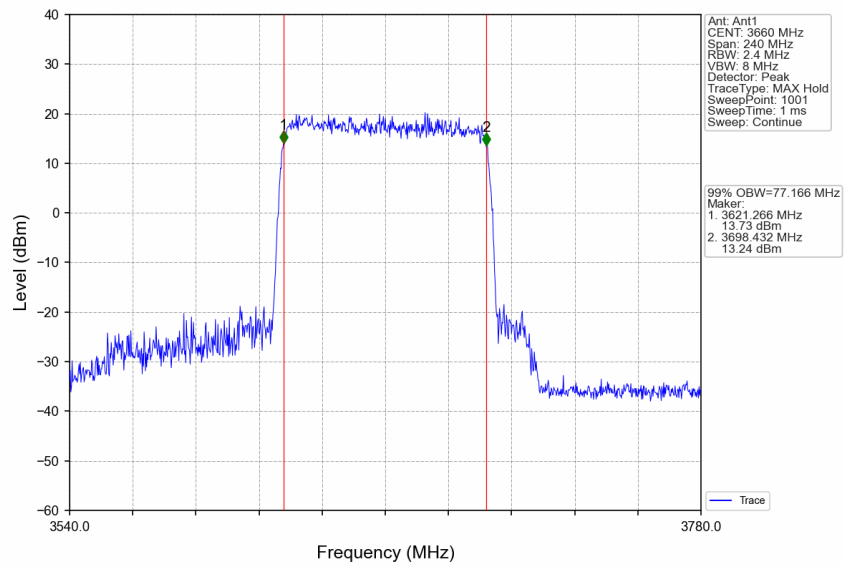


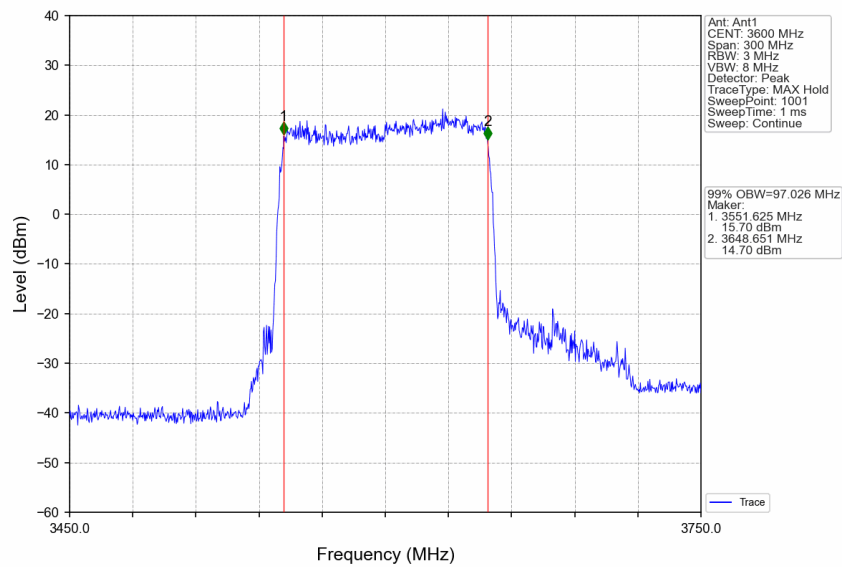
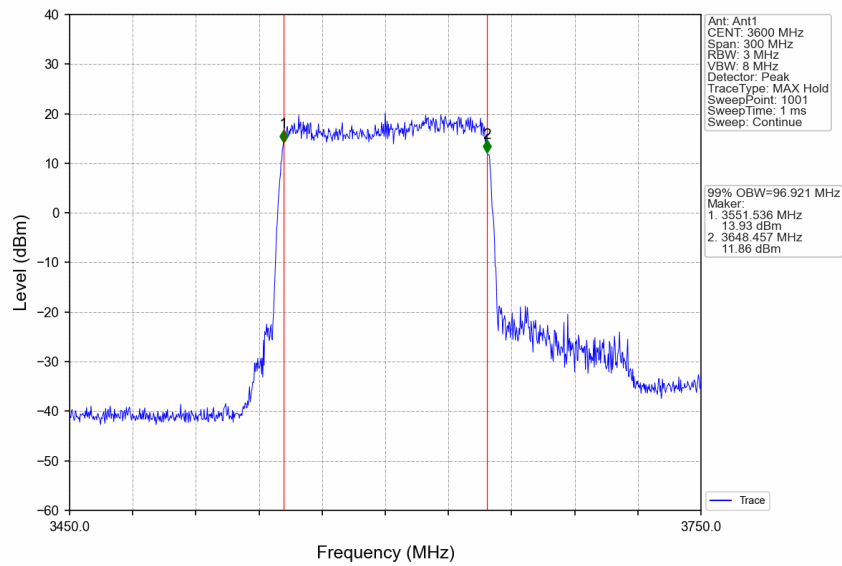


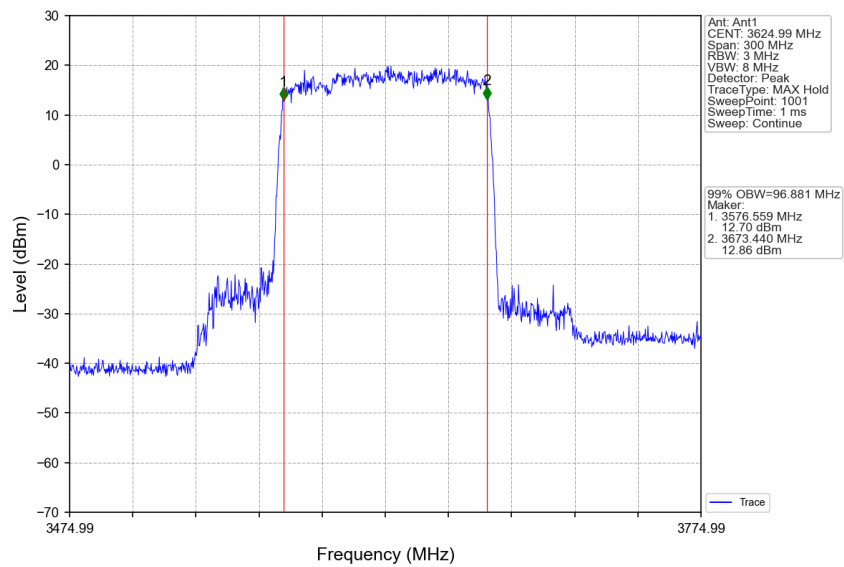
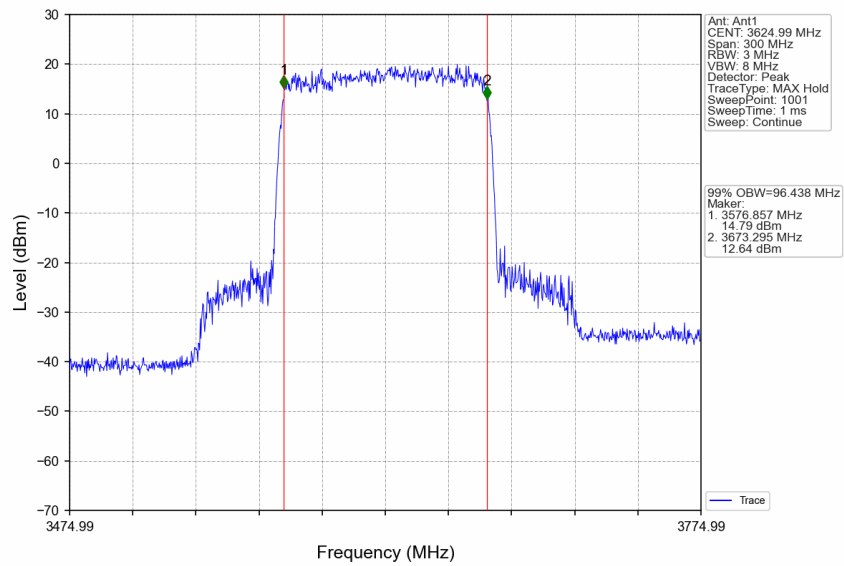


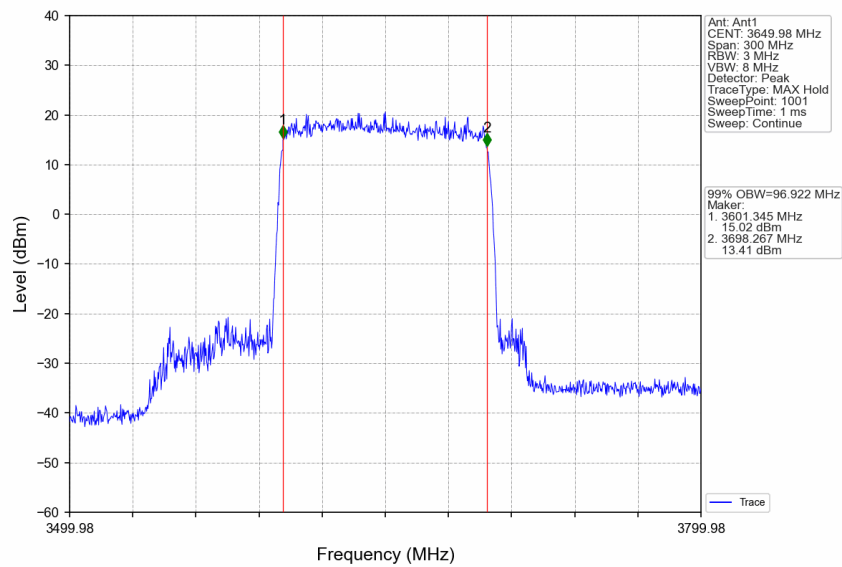
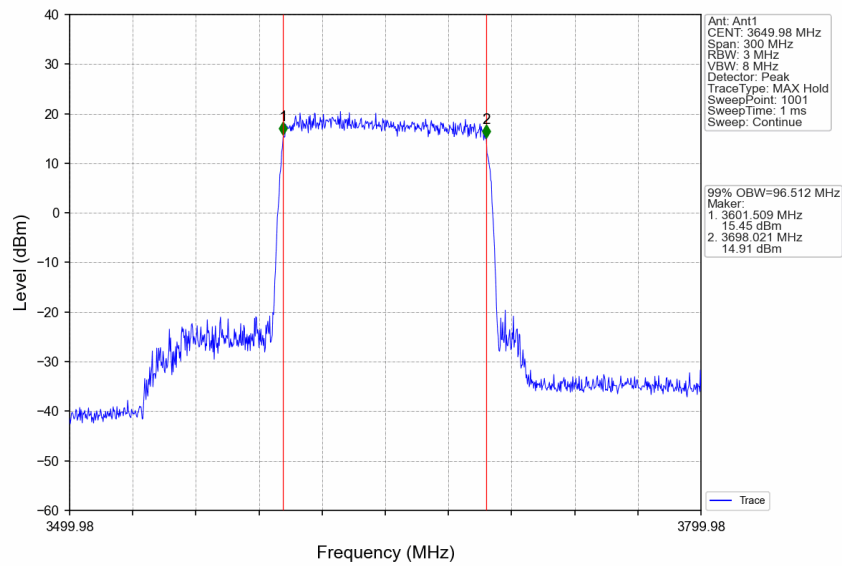












4.2 30_Single_XDB

4.2.1 Test Result

Band n48&77&78 Single NTN						
BW (MHz)	DL Frequency (MHz)	Test Mode	Ant No.	26dB Bandwidth (MHz)		Verdict
				Result	Limit	
CC1:60	CC1:3580.02	QPSK	1	61.20	/	Pass
		256QAM	1	61.21	/	Pass
	CC1:3624.99	QPSK	1	61.01	/	Pass
		256QAM	1	61.09	/	Pass
	CC1:3669.99	QPSK	1	60.90	/	Pass
		256QAM	1	61.04	/	Pass
CC1:80	CC1:3590.01	QPSK	1	82.47	/	Pass
		256QAM	1	82.64	/	Pass
	CC1:3624.99	QPSK	1	82.40	/	Pass
		256QAM	1	82.67	/	Pass
	CC1:3660	QPSK	1	82.48	/	Pass
		256QAM	1	82.49	/	Pass
CC1:100	CC1:3600	QPSK	1	103.78	/	Pass
		256QAM	1	103.46	/	Pass
	CC1:3624.99	QPSK	1	103.64	/	Pass
		256QAM	1	103.36	/	Pass
	CC1:3649.98	QPSK	1	103.38	/	Pass
		256QAM	1	103.49	/	Pass

4.2.2 Test Graph

