

1. Duty Cycle

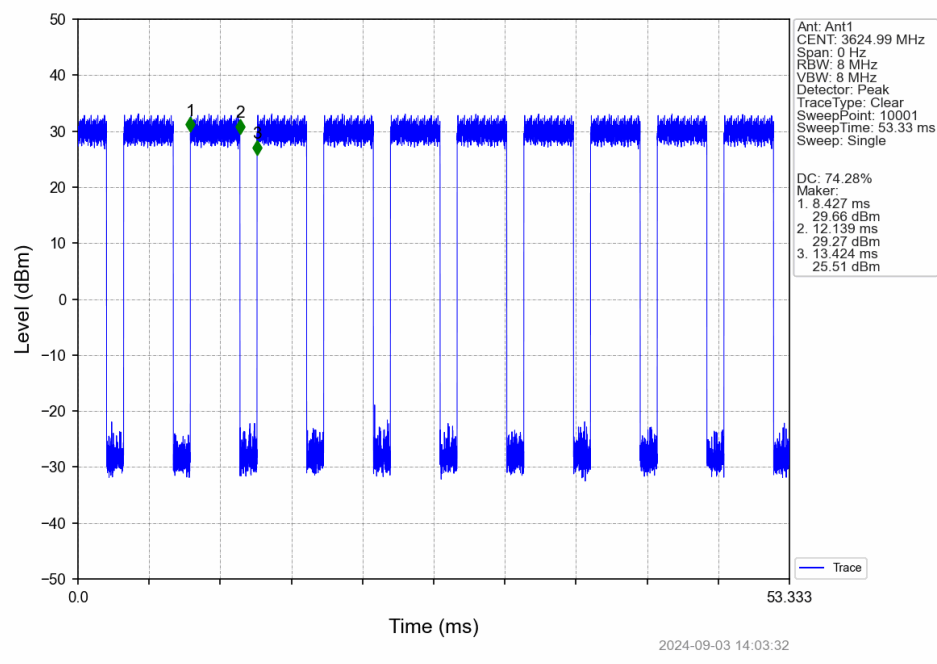
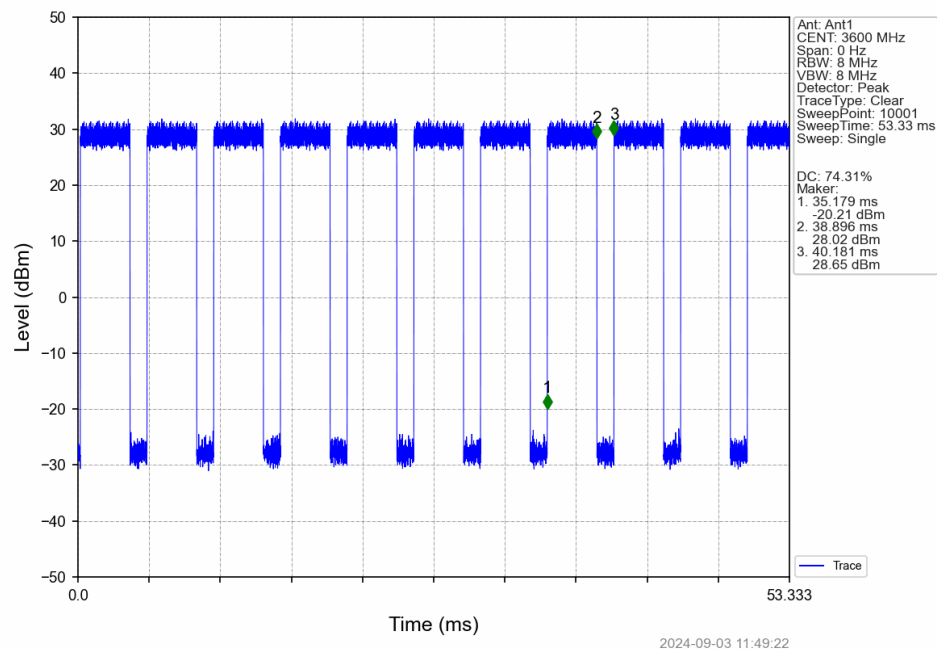
1.1 Test Result

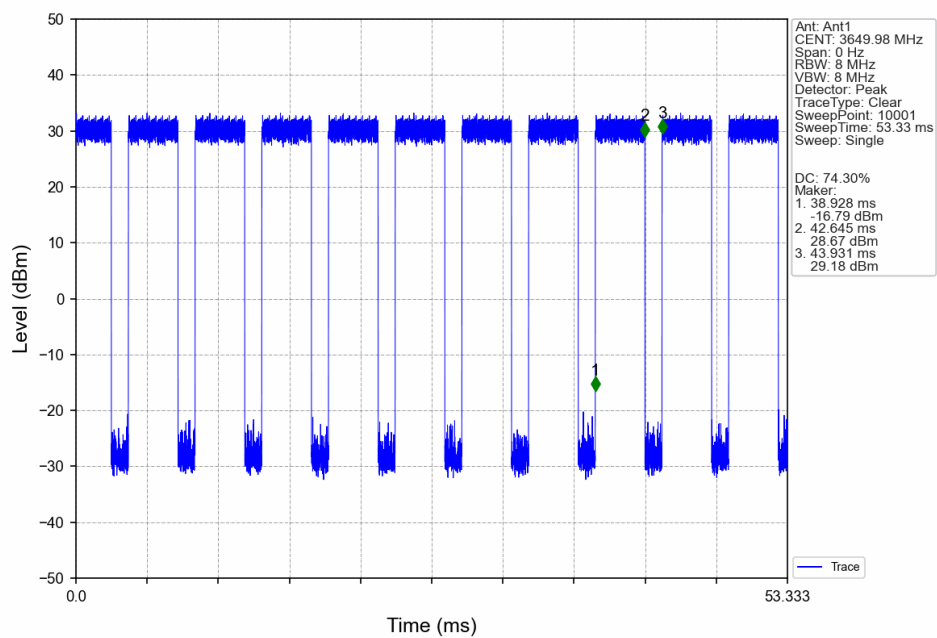
1.1.1 30_Single_Ant1

Band n48 Single NTN Ant1							
BW (MHz)	DL Frequency (MHz)	Test Mode	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
CC1:100	CC1:3600	NR-FR1-TM3.1a	3.717	5.002	74.31	1.29	0.19
	CC1:3624.99	NR-FR1-TM3.1a	3.712	4.997	74.28	1.29	0.03
	CC1:3649.98	NR-FR1-TM3.1a	3.717	5.003	74.30	1.29	0.11

1.2 Test Graph

1.2.1 30_Single_Ant1





2024-09-03 14:06:23

2. Effective (Isotropic) Radiated Power Output Data

2.1 Test Result

2.1.1 30_Single_Power

Band n48 Single NTNv								
BW (MHz)	DL Frequency (MHz)	Test Mode	Ant No.	Conducted Power (dBm)	EIRP (dBm)		Verdict	
				CC1	Total	Limit		
CC1:100	CC1:3600	NR-FR1-TM3.1a	1	34.12	49.12	49.12	/	Pass
			2	34.67	49.67	49.67	/	Pass
			3	33.73	48.73	48.73	/	Pass
			4	34.39	49.39	49.39	/	Pass
			Sum	40.26	55.26	55.26	/	Pass
	CC1:3624.99	NR-FR1-TM3.1a	1	34.33	49.33	49.33	/	Pass
			2	34.77	49.77	49.77	/	Pass
			3	30.96	45.96	45.96	/	Pass
			4	34.56	49.56	49.56	/	Pass
			Sum	39.92	54.92	54.92	/	Pass
	CC1:3649.98	NR-FR1-TM3.1a	1	34.53	49.53	49.53	/	Pass
			2	33.50	48.50	48.50	/	Pass
			3	33.99	48.99	48.99	/	Pass
			4	34.71	49.71	49.71	/	Pass
			Sum	40.23	55.23	55.23	/	Pass

2.1.2 30_Single_Power2

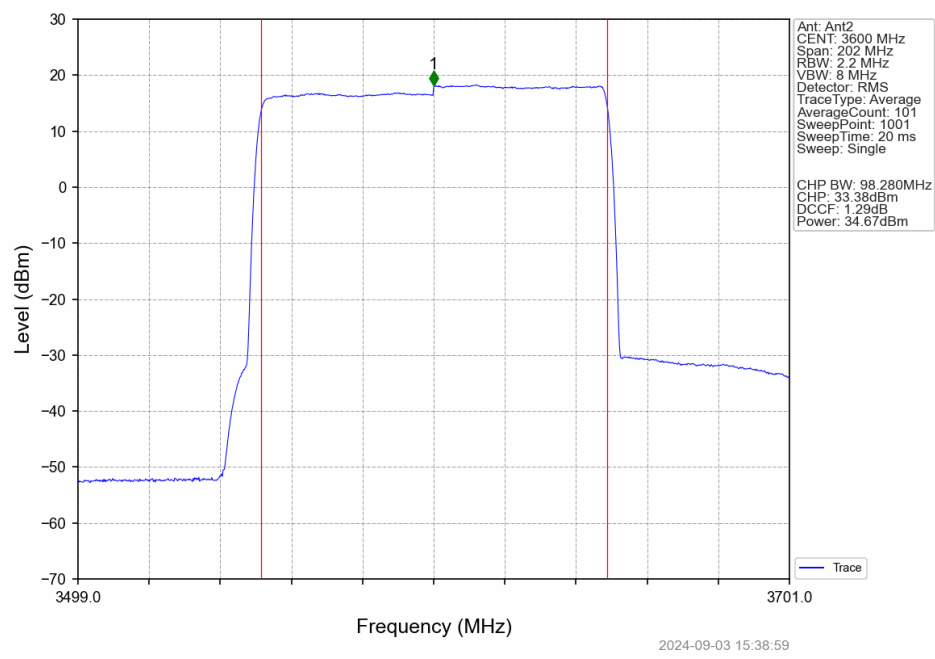
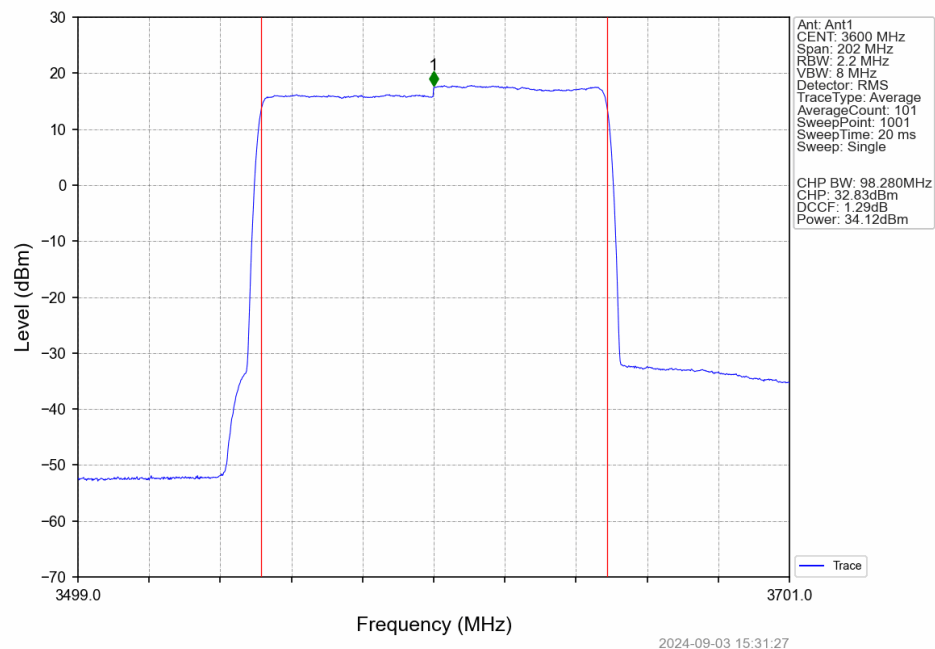
Band n48 Single NTN								
BW (MHz)	DL Frequency (MHz)	Test Mode	Ant No.	Conducted Power (dBm/MHz)	EIRP (dBm/MHz)			Verdict
				CC1	Total	Limit		
CC1:100	CC1:3600	NR-FR1-TM3.1a	1	15.63	30.63	/	/	Pass
			2	16.31	31.31	/	/	Pass
			3	15.33	30.33	/	/	Pass
			4	15.98	30.98	/	/	Pass
			Sum	21.85	36.85	/	<=37	Pass
	CC1:3624.99	NR-FR1-TM3.1a	1	15.36	30.36	/	/	Pass
			2	15.58	30.58	/	/	Pass
			3	14.86	29.86	/	/	Pass
			4	15.79	30.79	/	/	Pass
			Sum	21.43	36.43	/	<=37	Pass
	CC1:3649.98	NR-FR1-TM3.1a	1	15.41	30.41	/	/	Pass
			2	15.81	30.81	/	/	Pass
			3	15.07	30.07	/	/	Pass
			4	15.92	30.92	/	/	Pass
			Sum	21.59	36.59	/	<=37	Pass

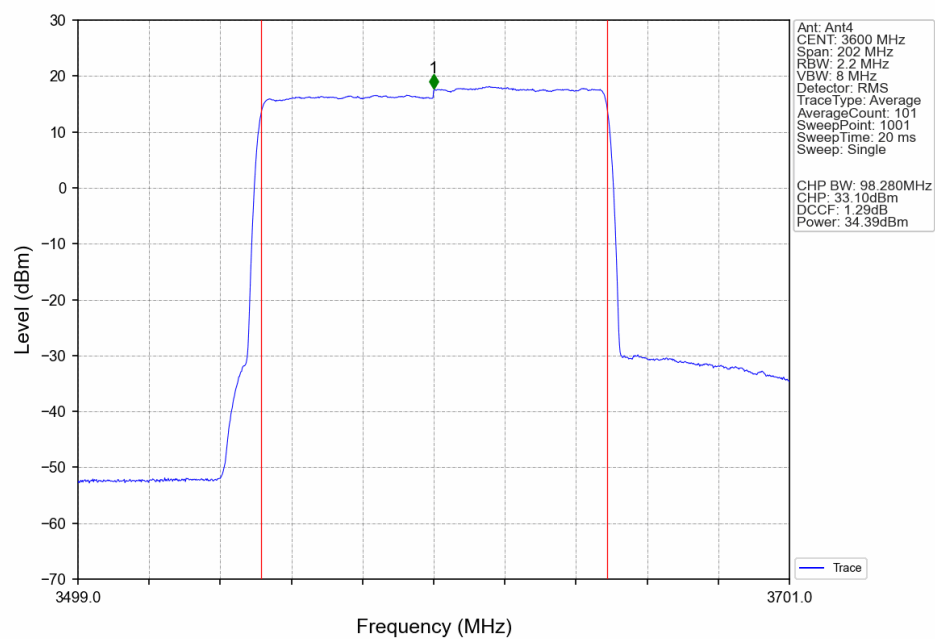
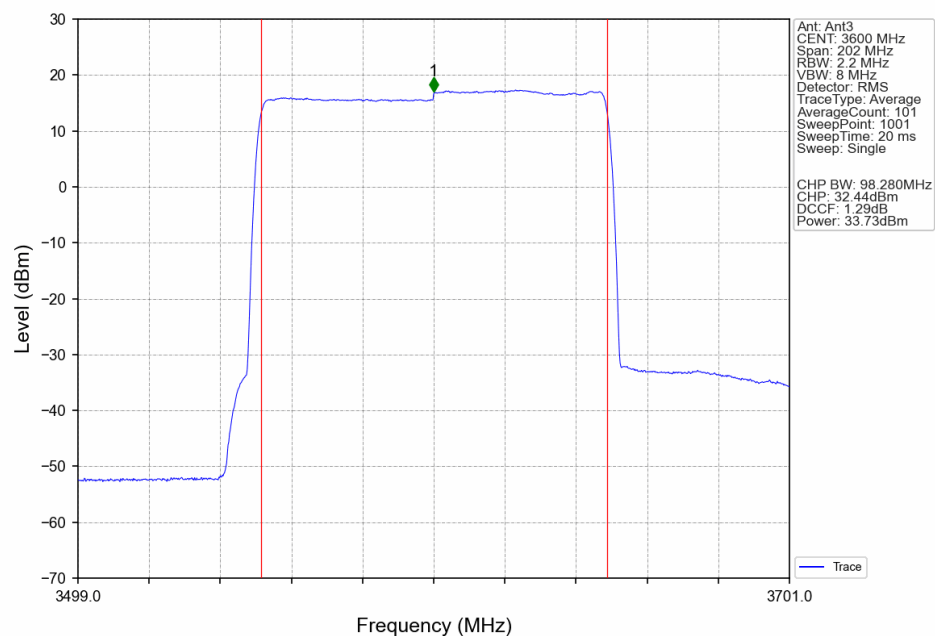
2.1.3 30_Single_Power3

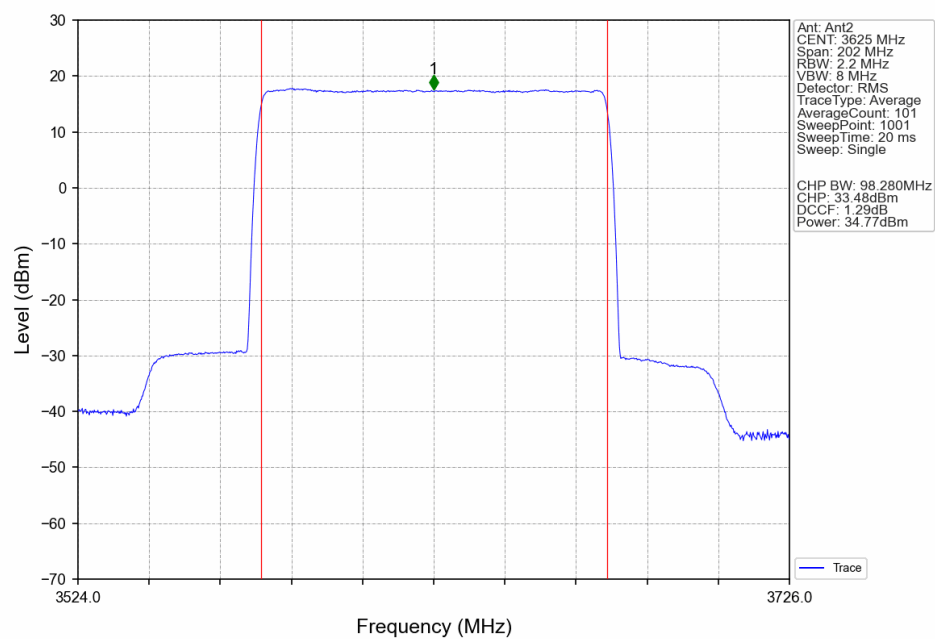
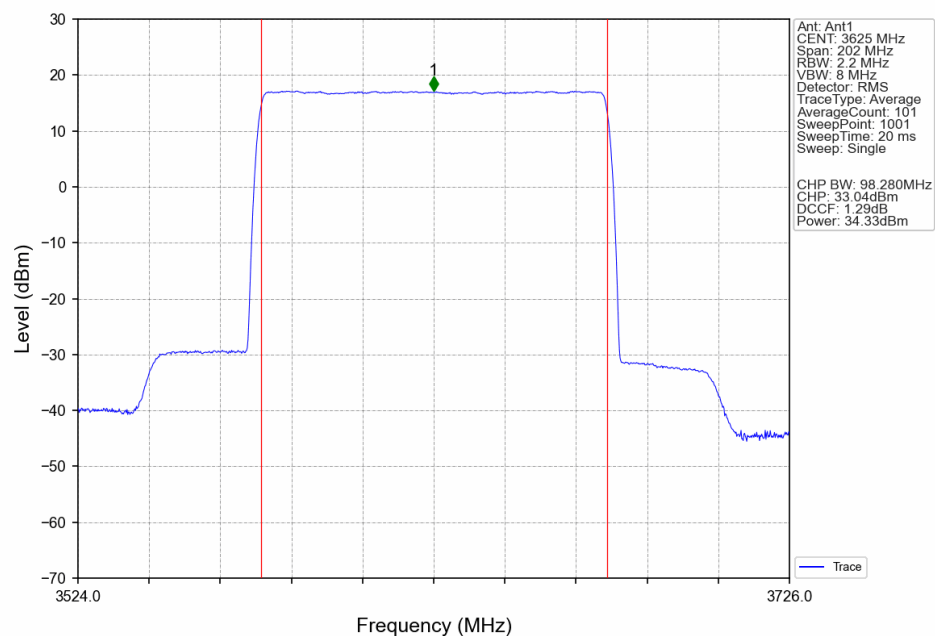
Band n48 Single NTN							
BW (MHz)	DL Frequency (MHz)	Test Mode	Ant No.	Conducted Power (dBm/10MHz)	EIRP (dBm/10MHz)		Verdict
				CC1	Total	Limit	
CC1:100	CC1:3600	NR-FR1-TM3.1a	1	24.11	39.11	/	Pass
			2	24.98	39.98	/	Pass
			3	23.95	38.95	/	Pass
			4	24.73	39.73	/	Pass
			Sum	30.48	45.48	/	Pass
	CC1:3624.99	NR-FR1-TM3.1a	1	24.51	39.51	/	Pass
			2	24.78	39.78	/	Pass
			3	24.02	39.02	/	Pass
			4	25.10	40.10	/	Pass
			Sum	30.64	45.64	/	Pass
	CC1:3649.98	NR-FR1-TM3.1a	1	24.48	39.48	/	Pass
			2	25.11	40.11	/	Pass
			3	24.42	39.42	/	Pass
			4	25.34	40.34	/	Pass
			Sum	30.88	45.88	/	Pass

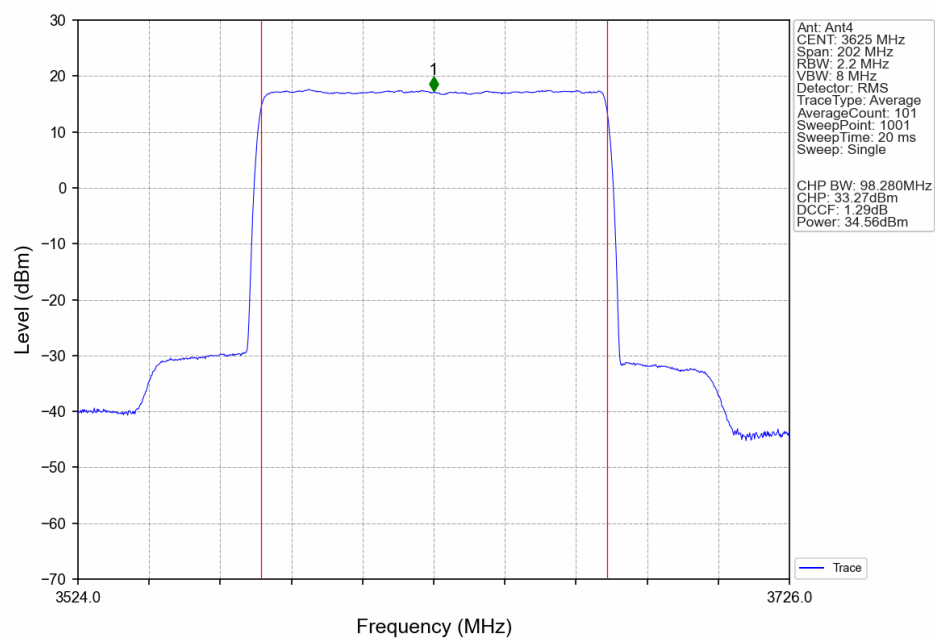
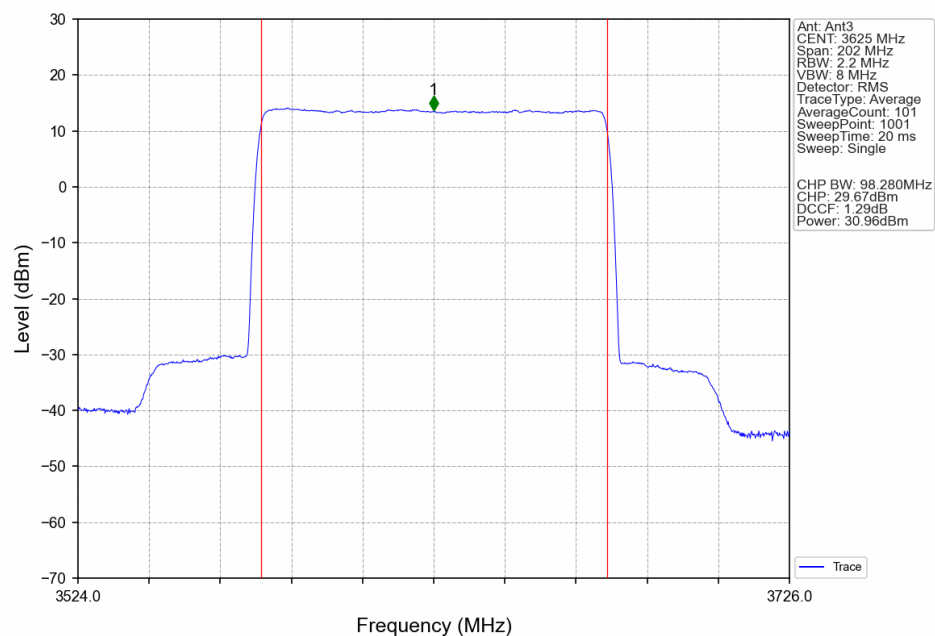
2.2 Test Graph

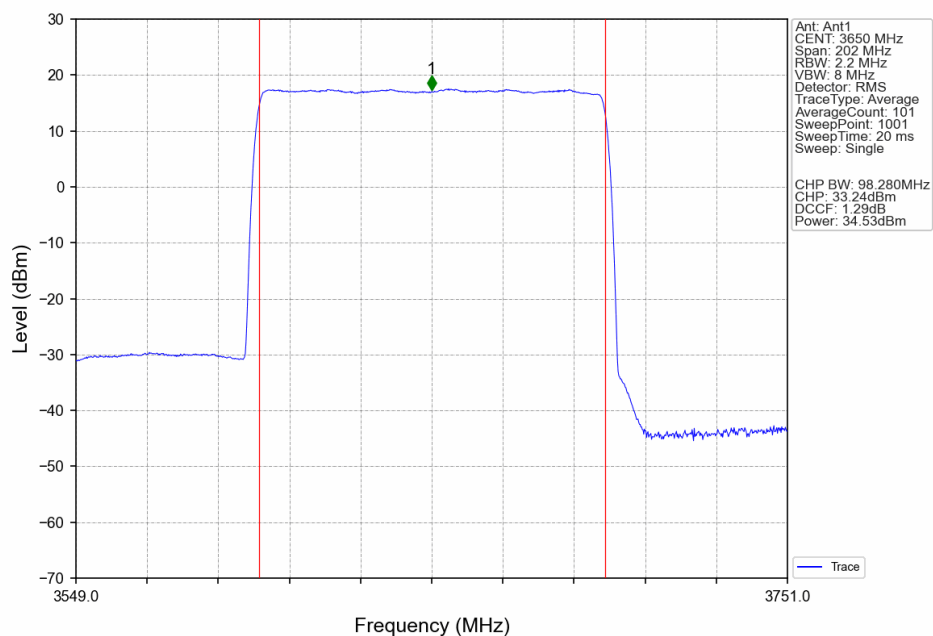
2.2.1 30_Single_Power



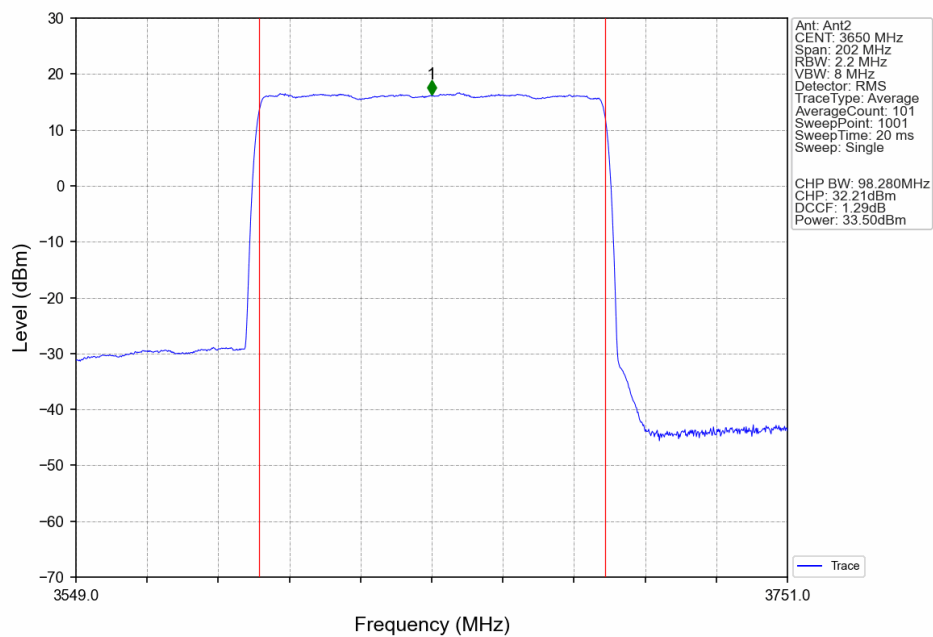




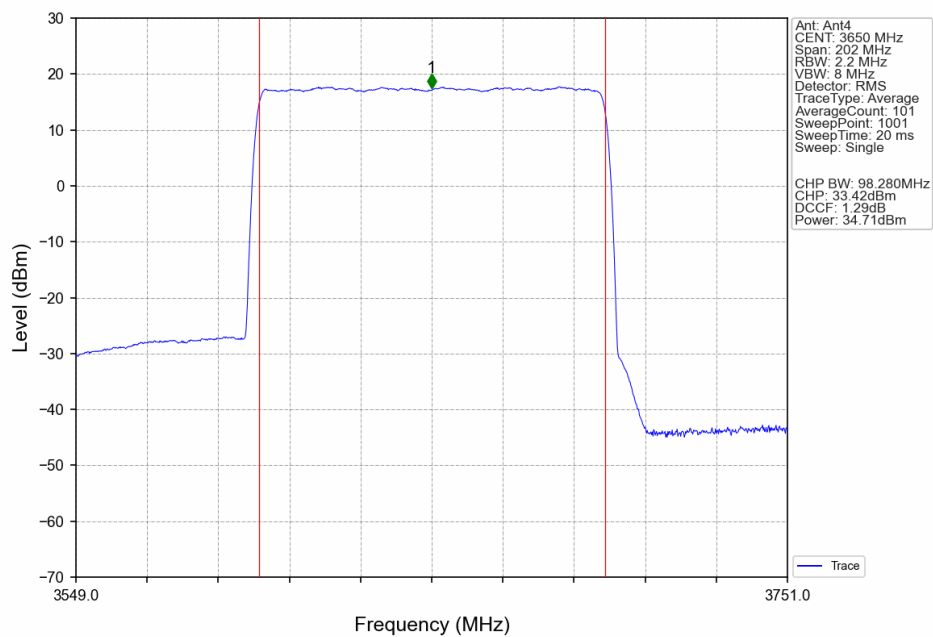
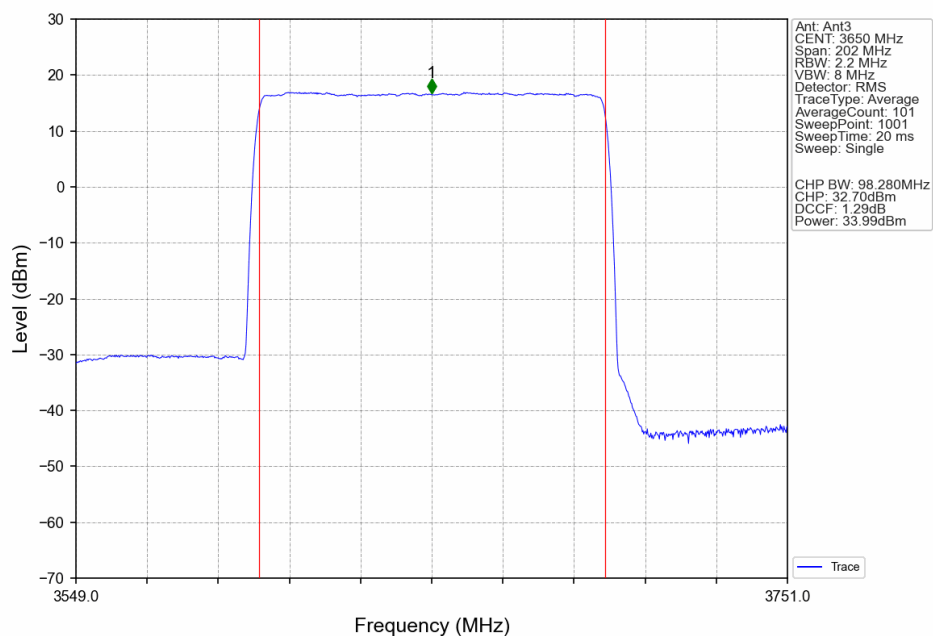




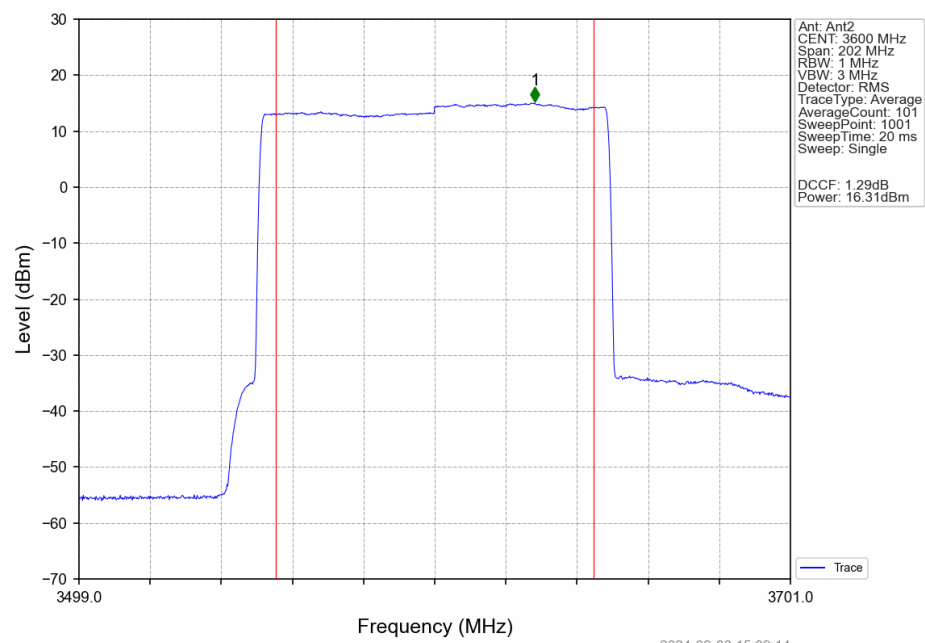
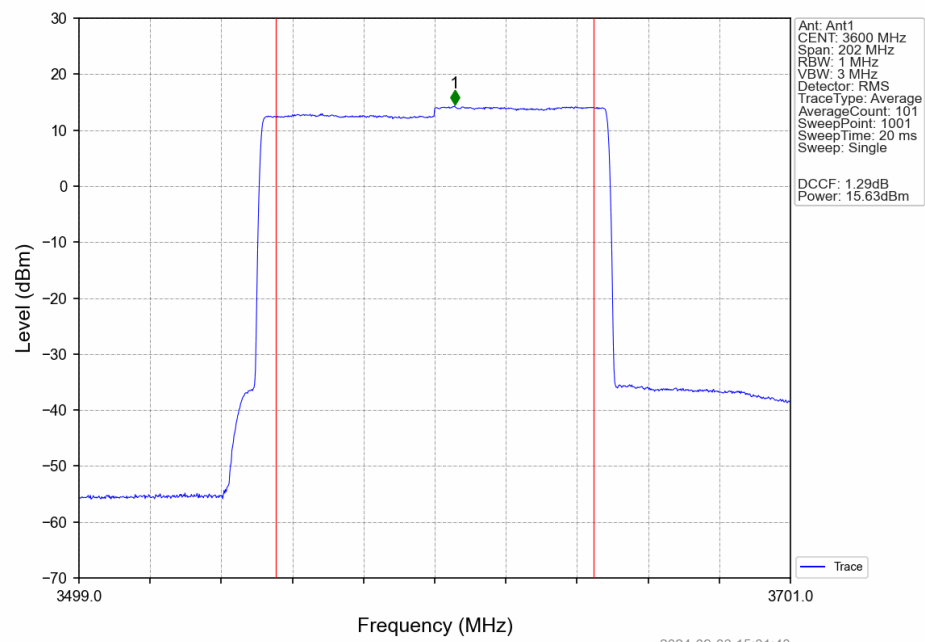
2024-09-03 15:35:35

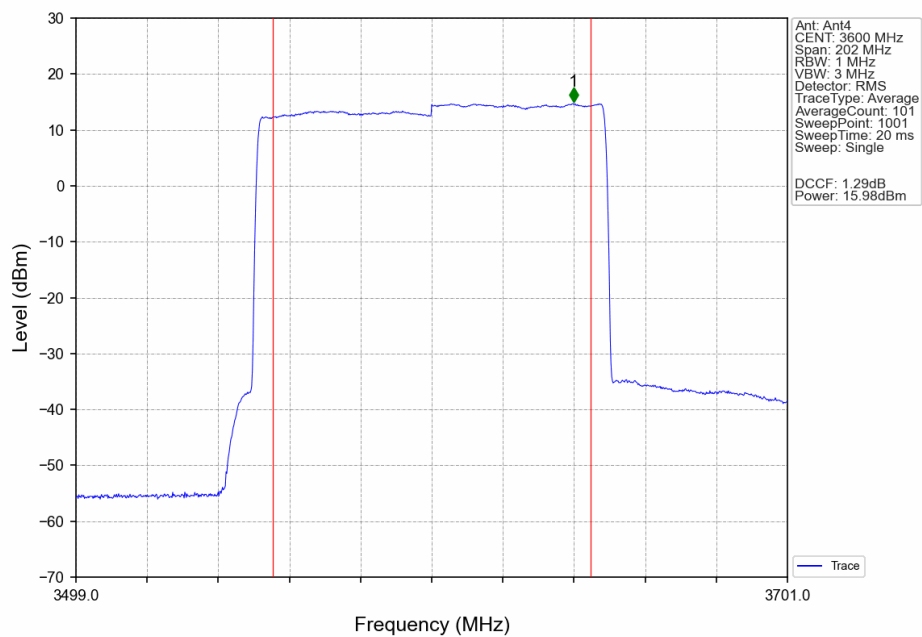
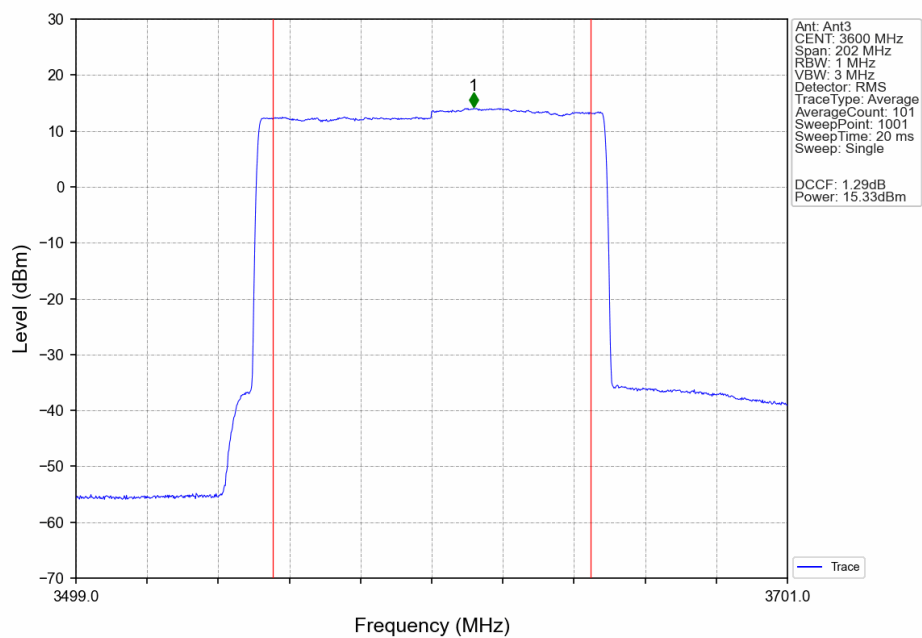


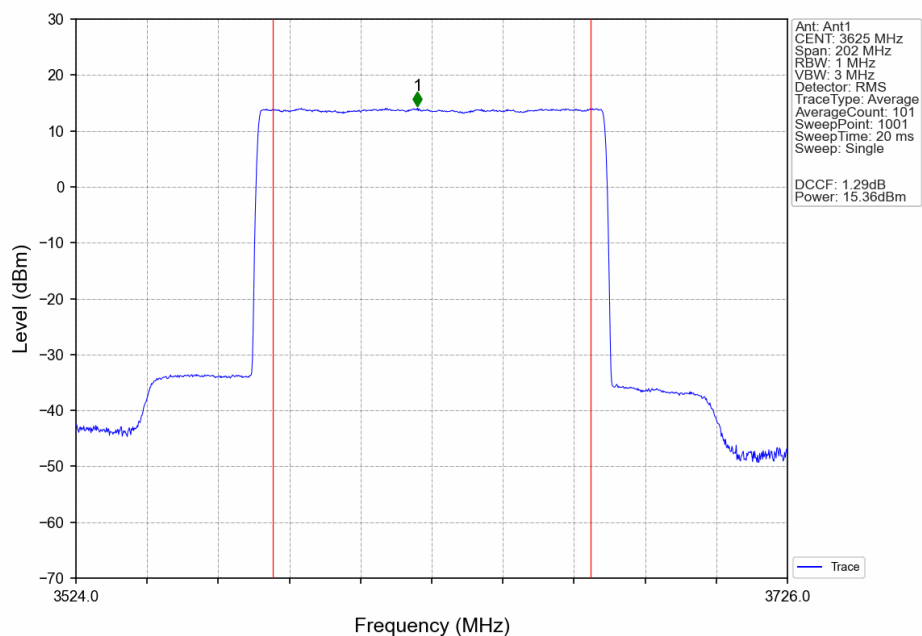
2024-09-03 15:42:48



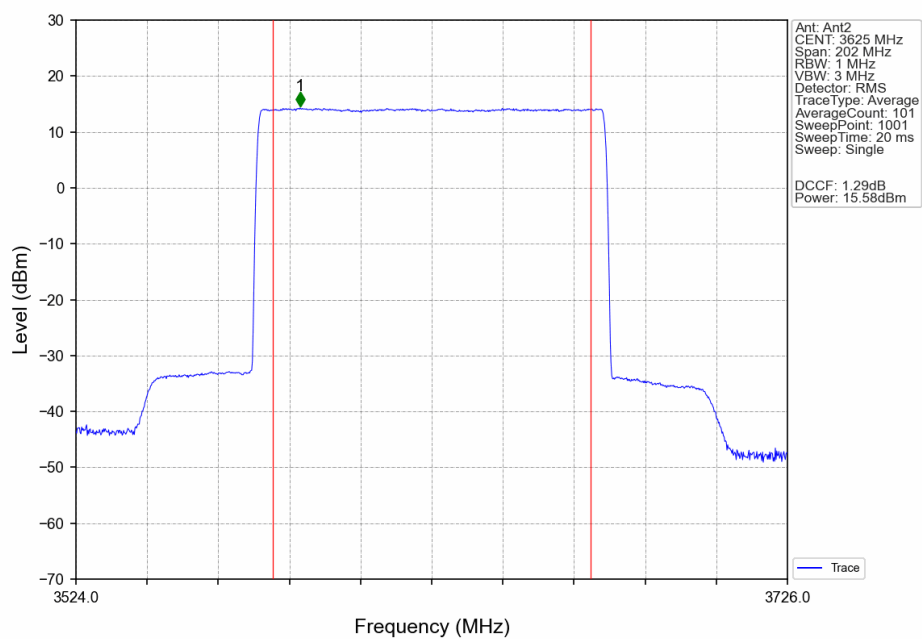
2.2.2 30_Single_Power2



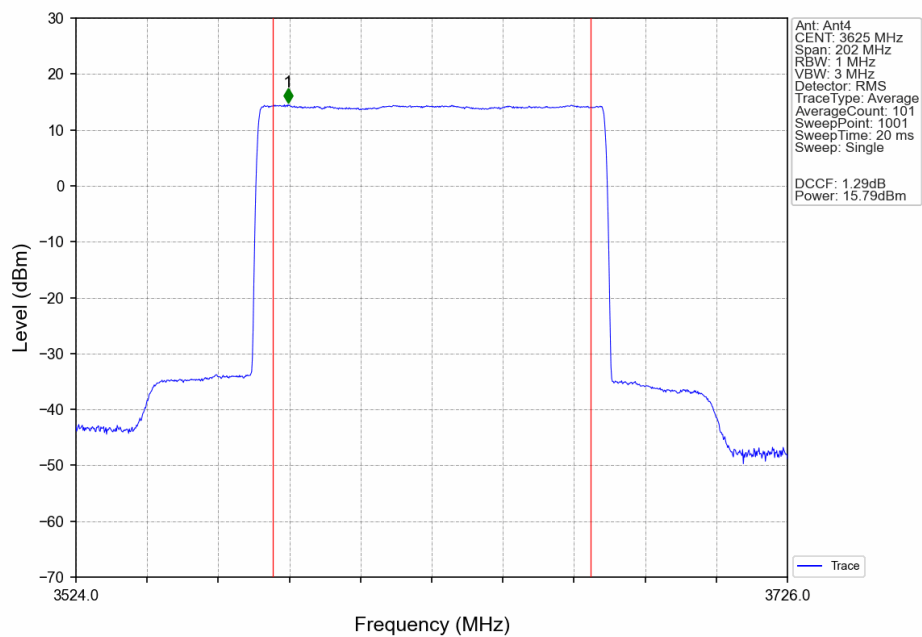
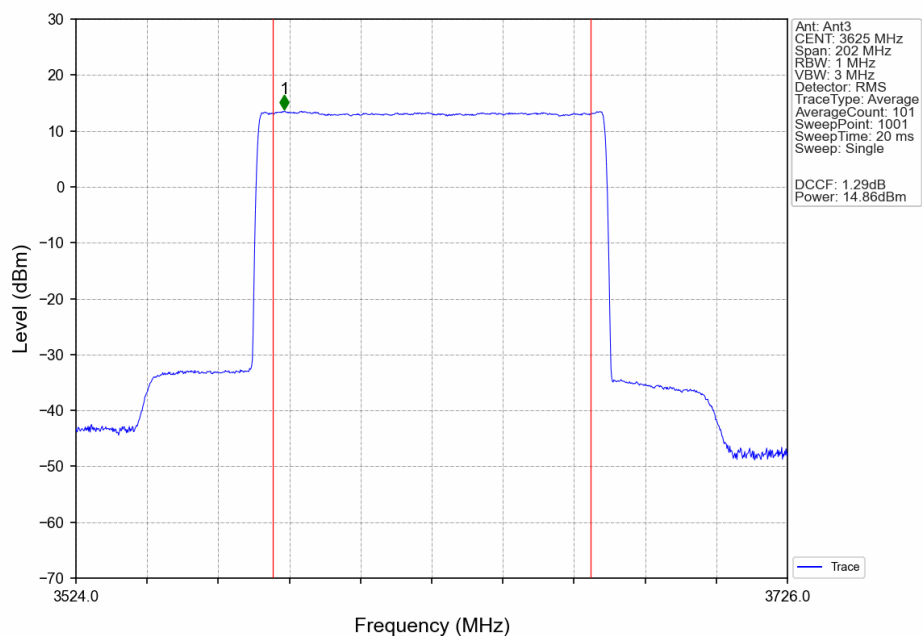


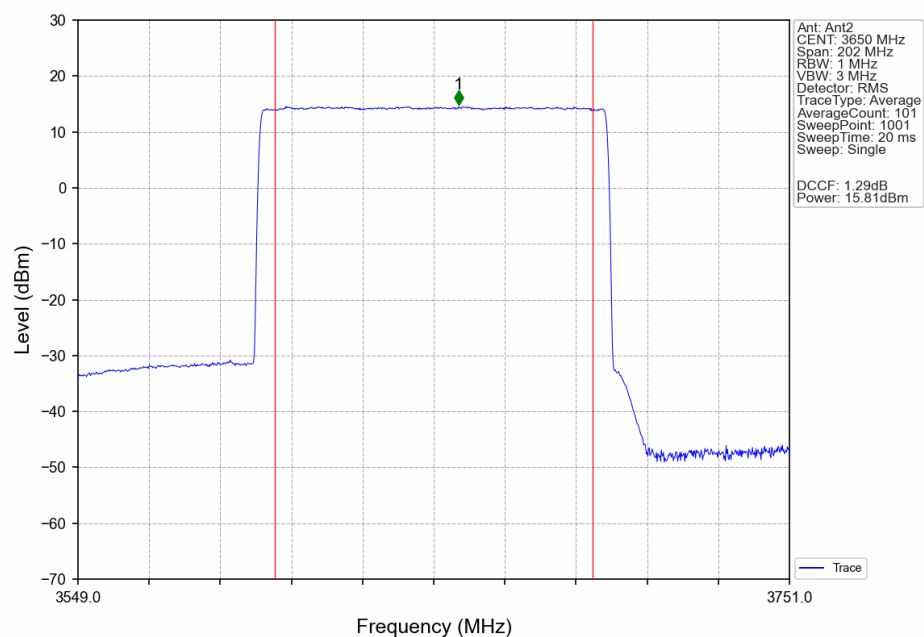
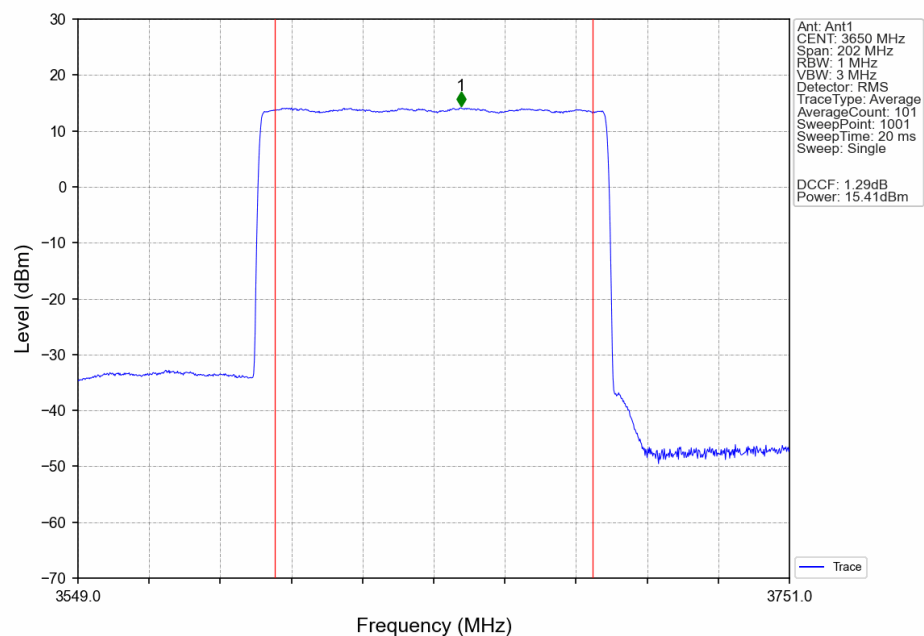


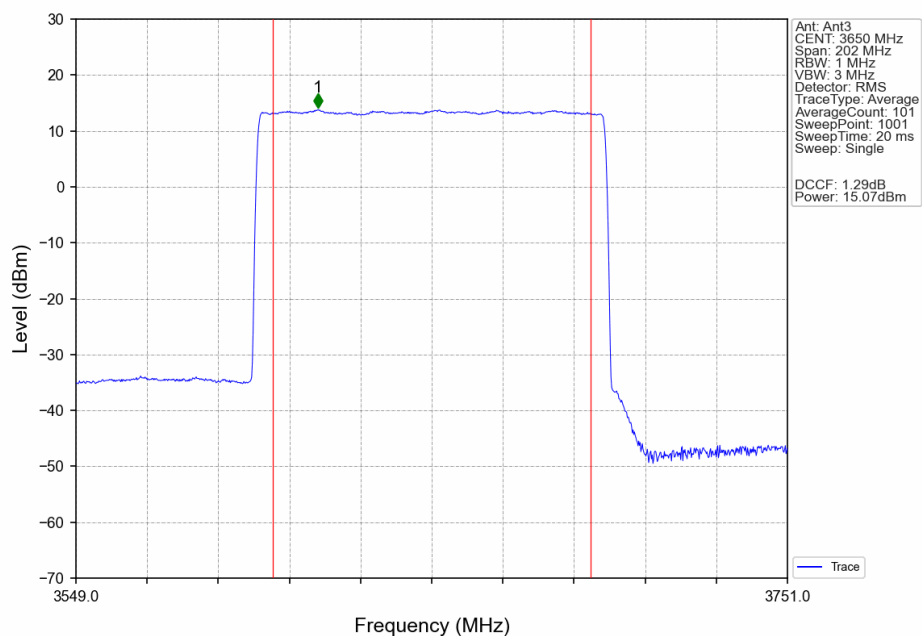
2024-09-03 15:33:39



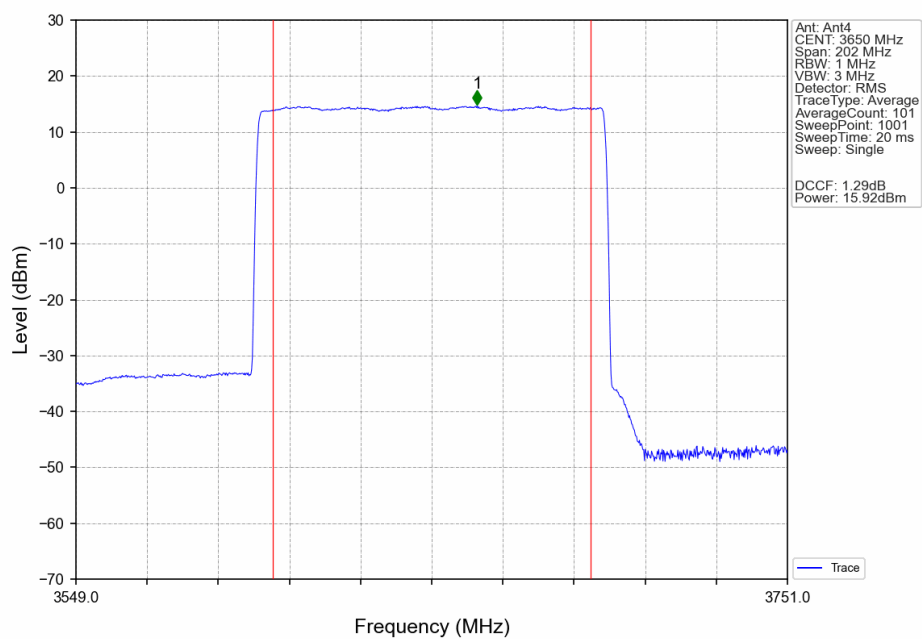
2024-09-03 15:41:18





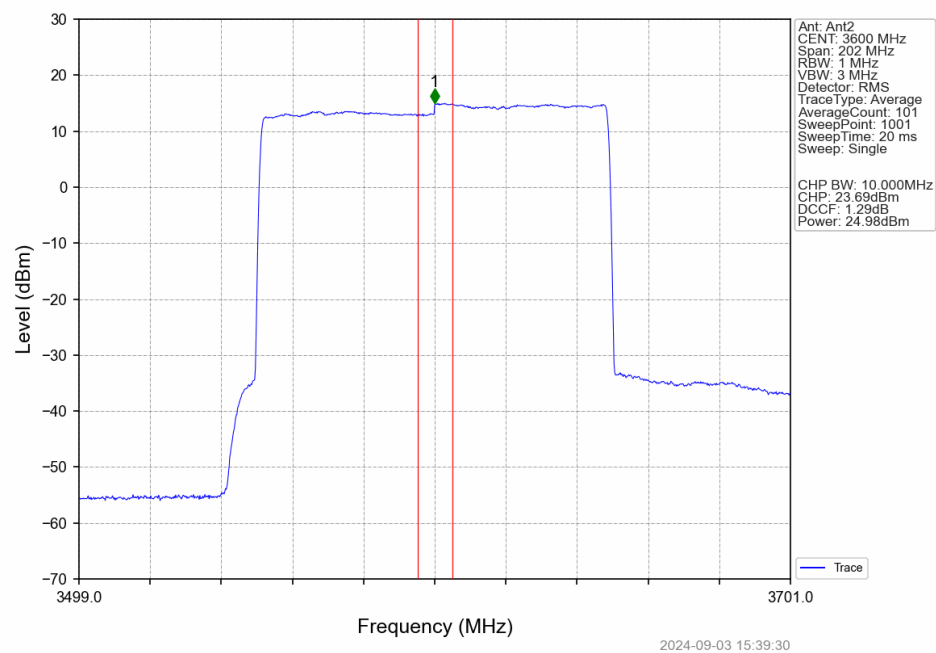
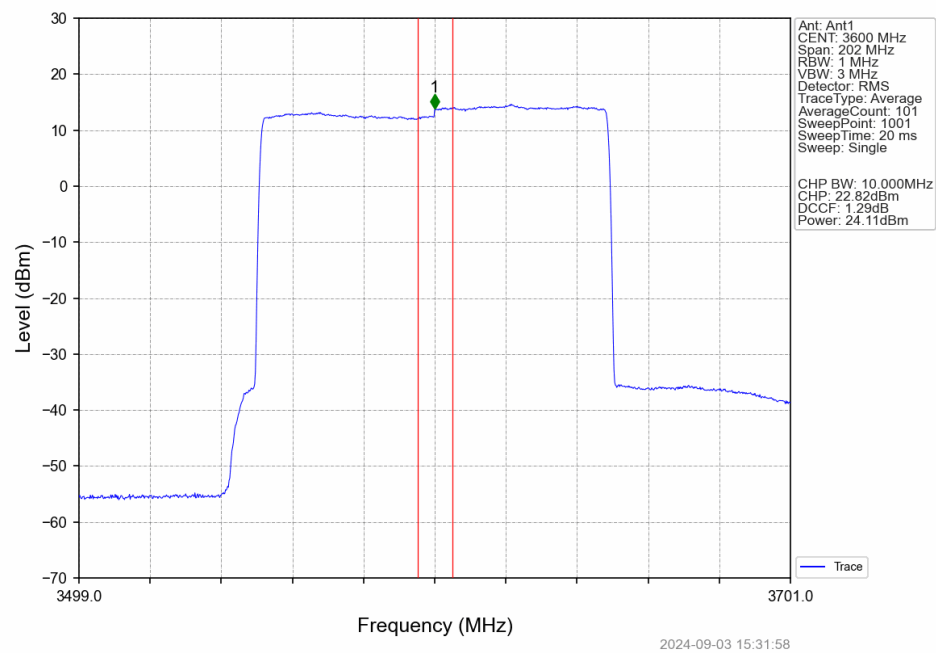


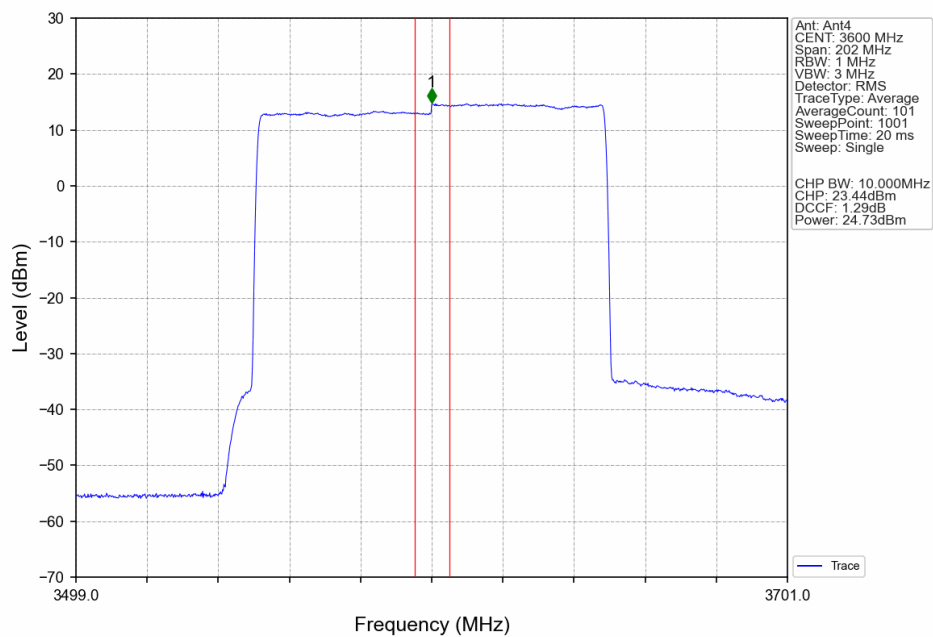
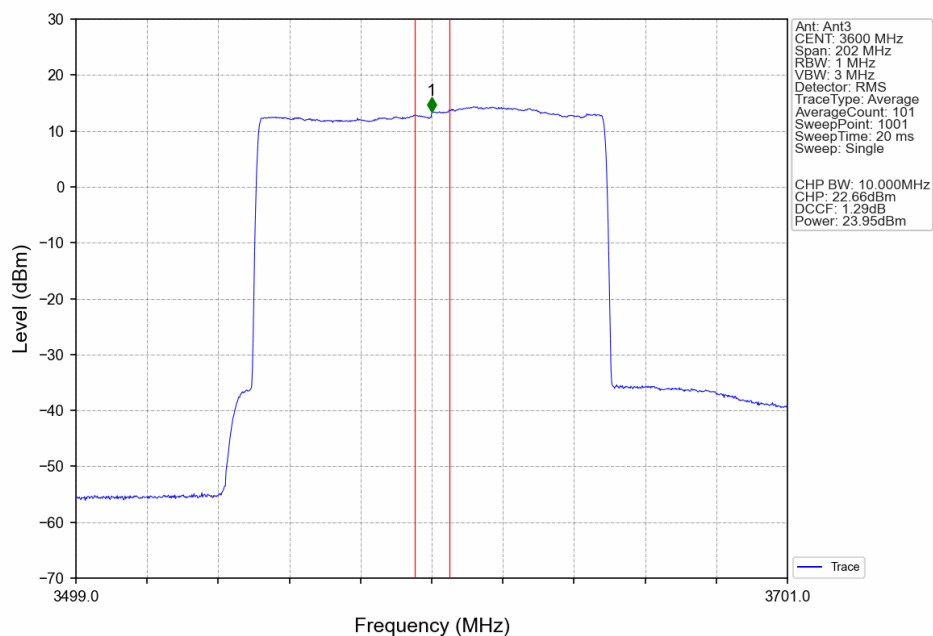
2024-09-03 15:50:26

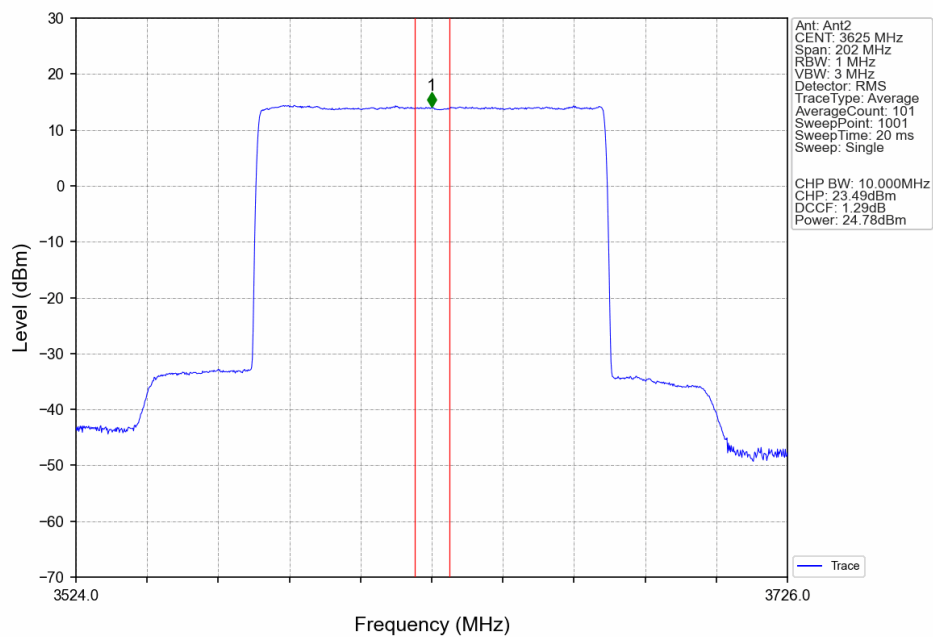
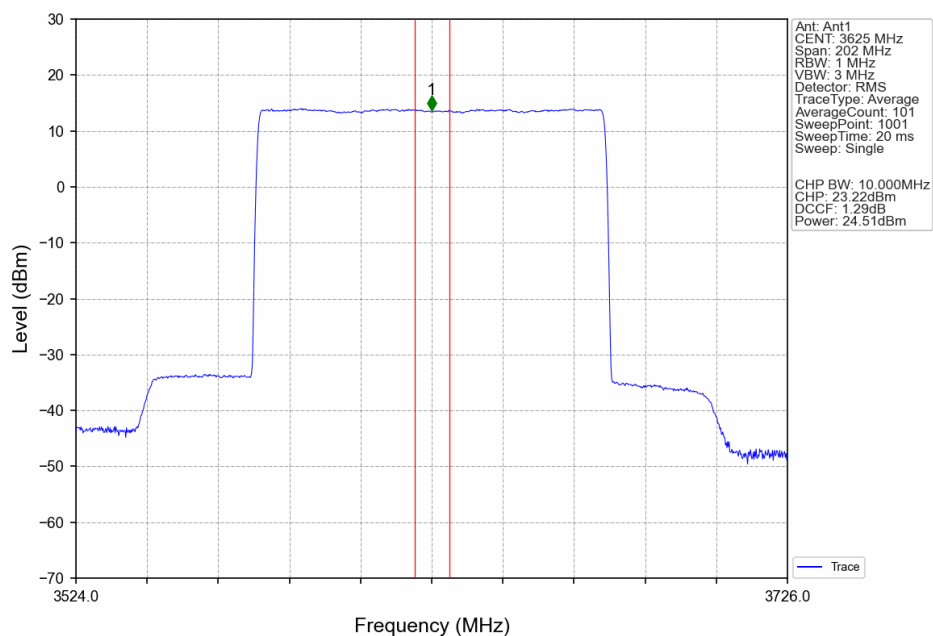


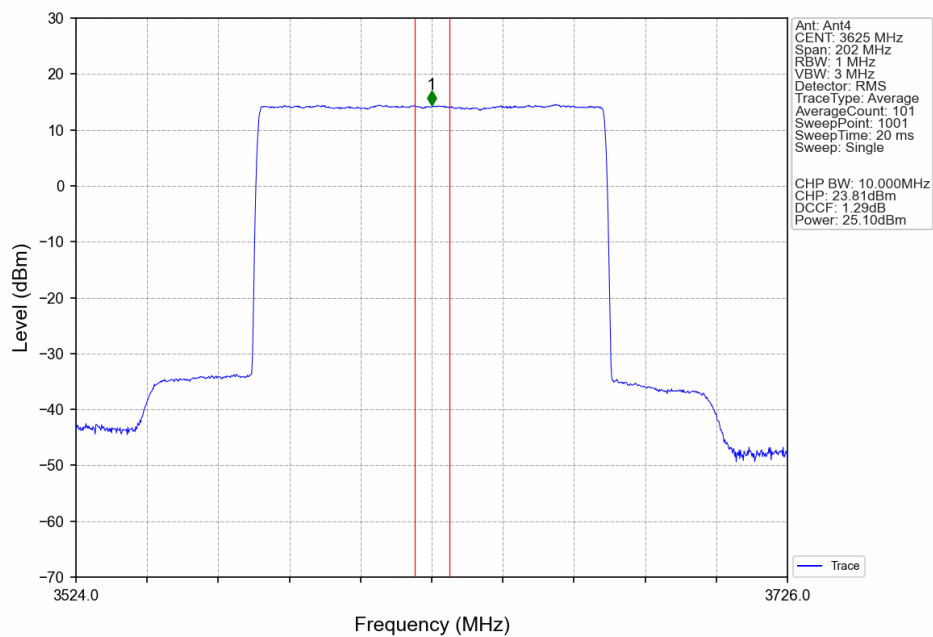
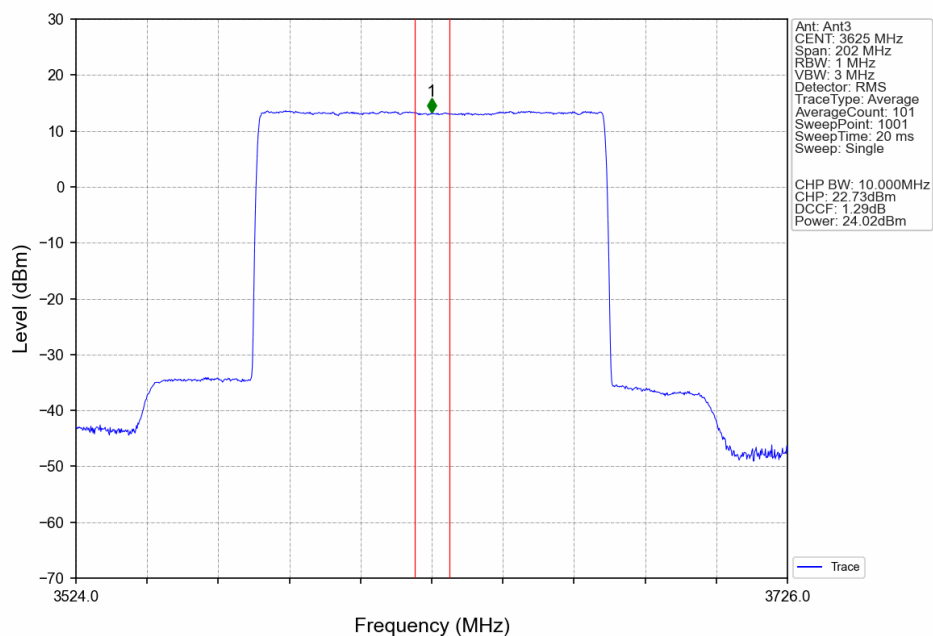
2024-09-03 15:57:39

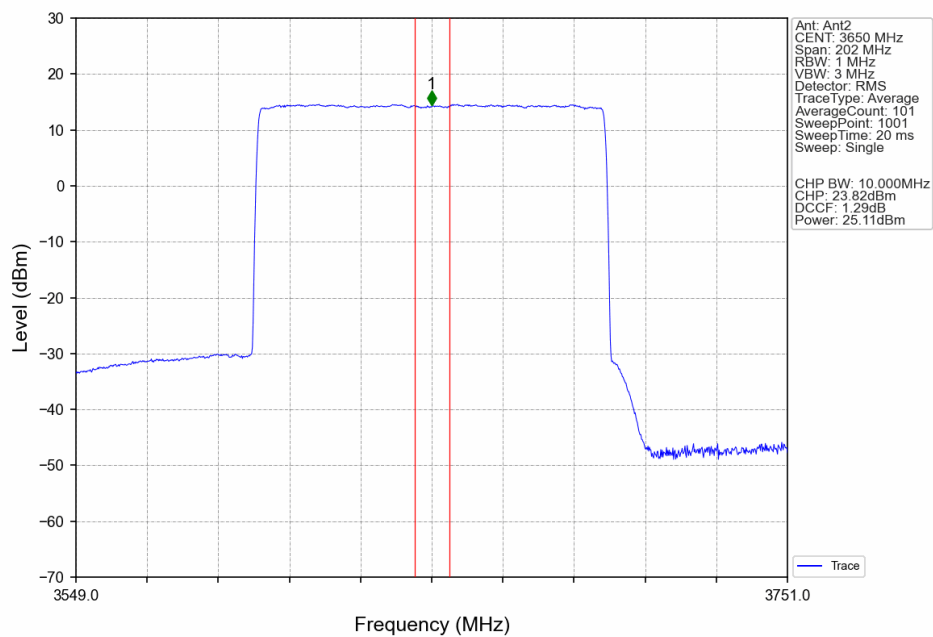
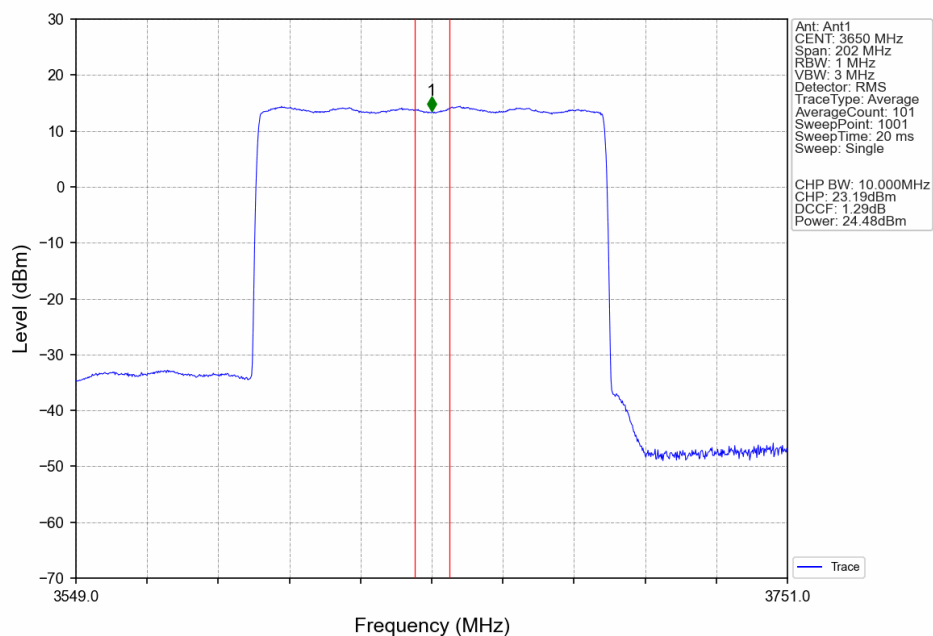
2.2.3 30_Single_Power3

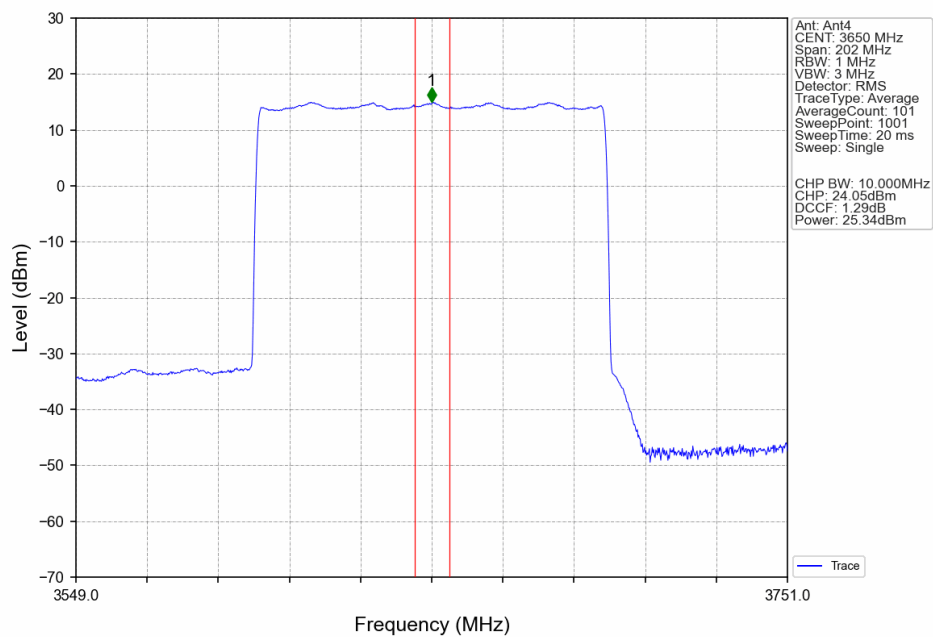
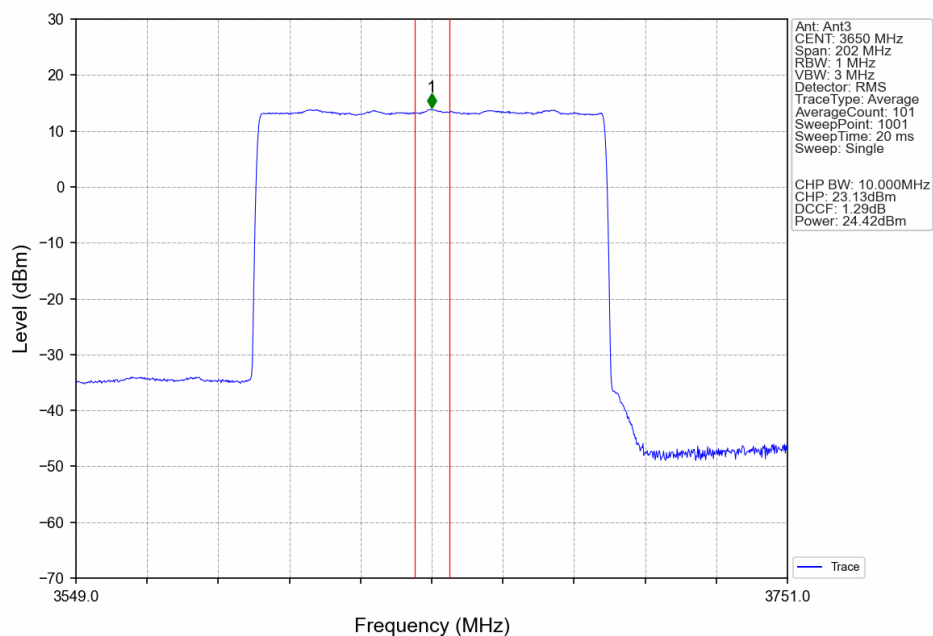












3. Frequency Stability

3.1 Test Result

3.1.1 30_Single_Ant1

Band n48 Single NTN Ant1								
BW (MHz)	DL Frequency (MHz)	Test Mode	Temp. (°C)	Voltage (VDC)	Frequency Deviation (Hz)	Freq. vs. Rated (ppm)		Verdict
						Result	Limit	
CC1:100	CC1:3600	NR-FR1-TM3.1a	20	3.27	1818.00	-0.51	-1.5 to 1.5	Pass
				3.85	1823.00	-0.51	-1.5 to 1.5	Pass
				4.43	1828.00	-0.51	-1.5 to 1.5	Pass
			-30	3.85	1818.00	-0.51	-1.5 to 1.5	Pass
			-20	3.85	1828.00	-0.51	-1.5 to 1.5	Pass
			-10	3.85	1828.00	-0.51	-1.5 to 1.5	Pass
			0	3.85	1828.00	-0.51	-1.5 to 1.5	Pass
			10	3.85	1823.00	-0.51	-1.5 to 1.5	Pass
			30	3.85	1813.00	-0.50	-1.5 to 1.5	Pass
			40	3.85	1833.00	-0.51	-1.5 to 1.5	Pass
			50	3.85	1818.00	-0.51	-1.5 to 1.5	Pass
	CC1:3624.99	NR-FR1-TM3.1a	20	3.27	-268.00	0.07	-1.5 to 1.5	Pass
				3.85	-263.00	0.07	-1.5 to 1.5	Pass
				4.43	-268.00	0.07	-1.5 to 1.5	Pass
			-30	3.85	-268.00	0.07	-1.5 to 1.5	Pass
			-20	3.85	-268.00	0.07	-1.5 to 1.5	Pass
			-10	3.85	-273.00	0.08	-1.5 to 1.5	Pass
			0	3.85	-263.00	0.07	-1.5 to 1.5	Pass
			10	3.85	-273.00	0.08	-1.5 to 1.5	Pass
			30	3.85	-268.00	0.07	-1.5 to 1.5	Pass
			40	3.85	-263.00	0.07	-1.5 to 1.5	Pass
			50	3.85	-273.00	0.08	-1.5 to 1.5	Pass
	CC1:3649.98	NR-FR1-TM3.1a	20	3.27	-268.00	0.07	-1.5 to 1.5	Pass
				3.85	-273.00	0.07	-1.5 to 1.5	Pass
				4.43	-273.00	0.07	-1.5 to 1.5	Pass
			-30	3.85	-268.00	0.07	-1.5 to 1.5	Pass
			-20	3.85	-278.00	0.08	-1.5 to 1.5	Pass
			-10	3.85	-278.00	0.08	-1.5 to 1.5	Pass
			0	3.85	-263.00	0.07	-1.5 to 1.5	Pass
			10	3.85	-268.00	0.07	-1.5 to 1.5	Pass
			30	3.85	-273.00	0.07	-1.5 to 1.5	Pass
			40	3.85	-258.00	0.07	-1.5 to 1.5	Pass
			50	3.85	-268.00	0.07	-1.5 to 1.5	Pass

4. 99% & 26dB Bandwidth

4.1 Test Result

4.1.1 30_Single_OBW

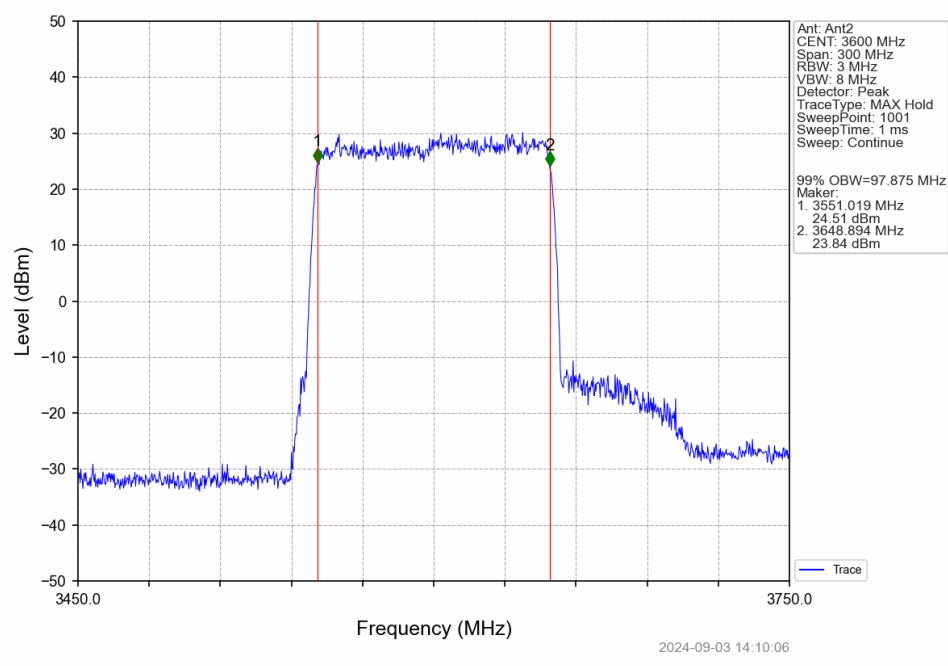
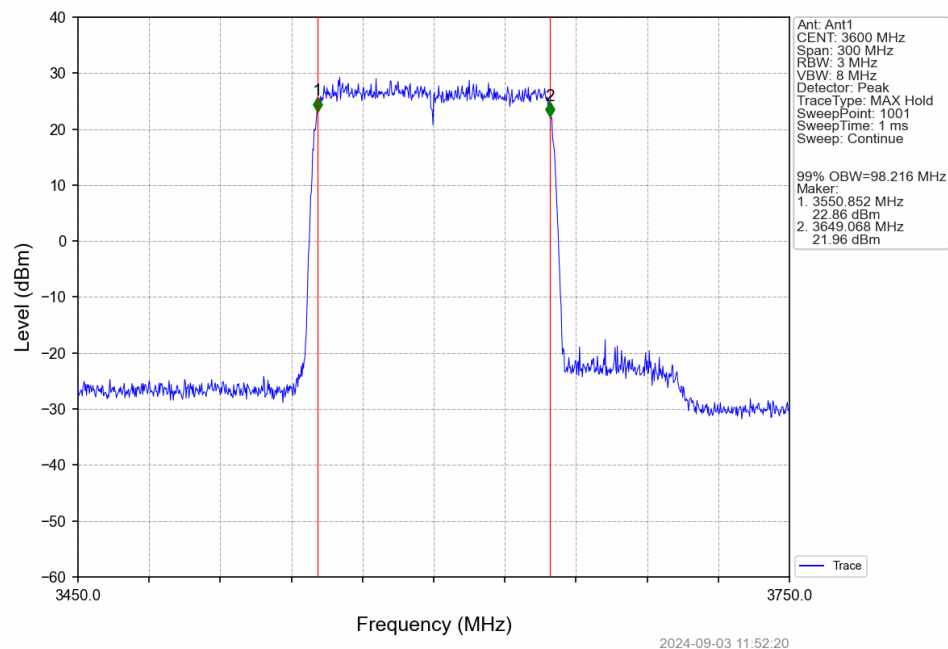
Band n48 Single NTN						
BW (MHz)	DL Frequency (MHz)	Test Mode	Ant No.	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
CC1:100	CC1:3600	NR-FR1-TM3.1a	1	98.22	/	Pass
			2	97.88	/	Pass
			3	98.09	/	Pass
			4	97.89	/	Pass
	CC1:3624.99	NR-FR1-TM3.1a	1	97.86	/	Pass
			2	97.89	/	Pass
			3	97.86	/	Pass
			4	97.82	/	Pass
	CC1:3649.98	NR-FR1-TM3.1a	1	98.11	/	Pass
			2	98.11	/	Pass
			3	97.87	/	Pass
			4	98.11	/	Pass

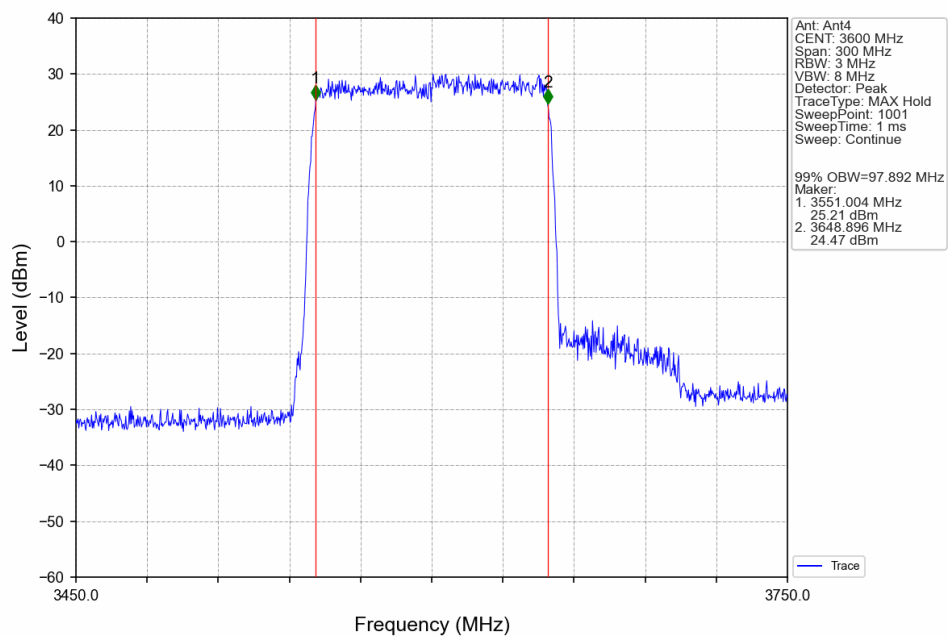
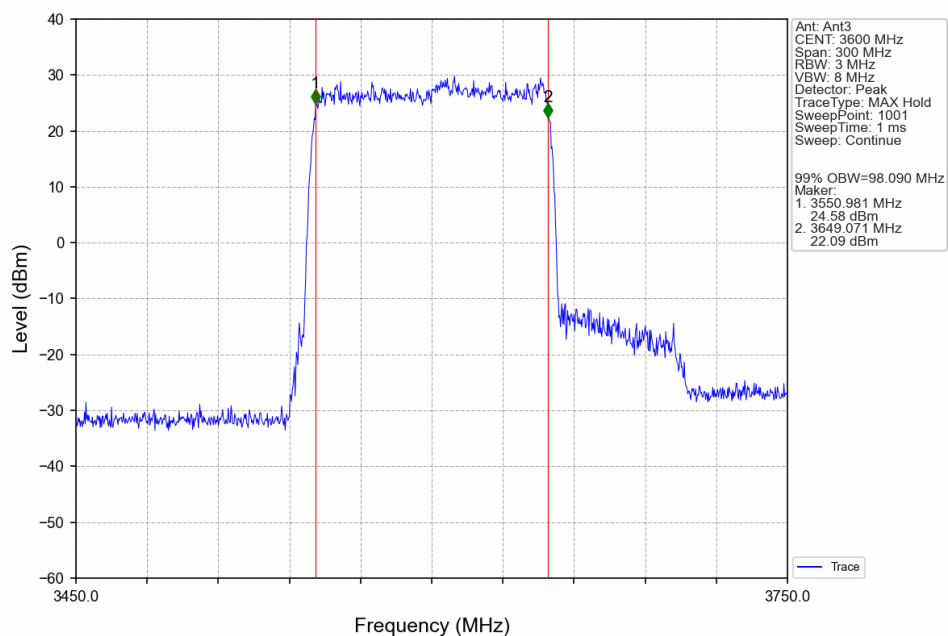
4.1.2 30_Single_XDB

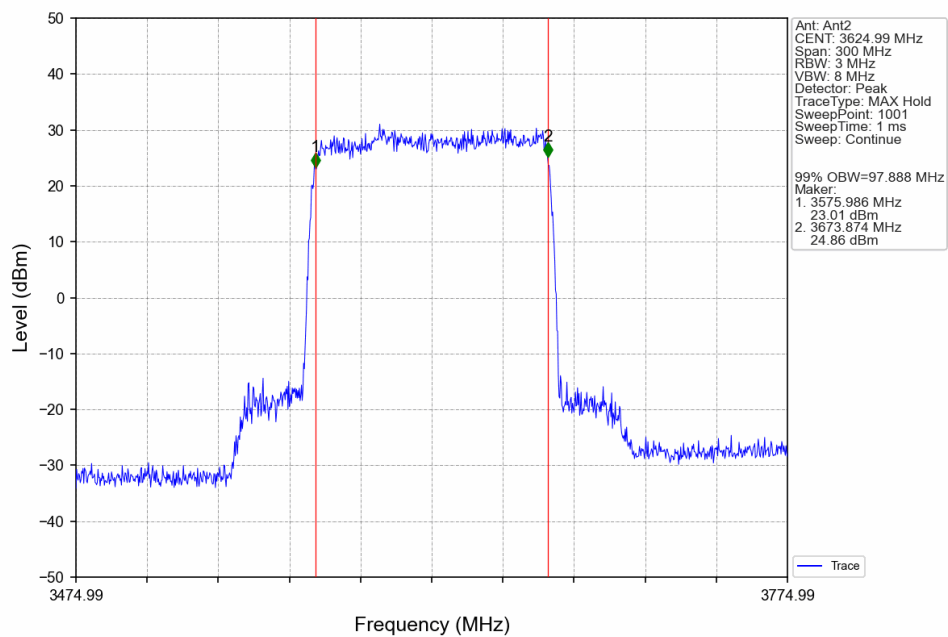
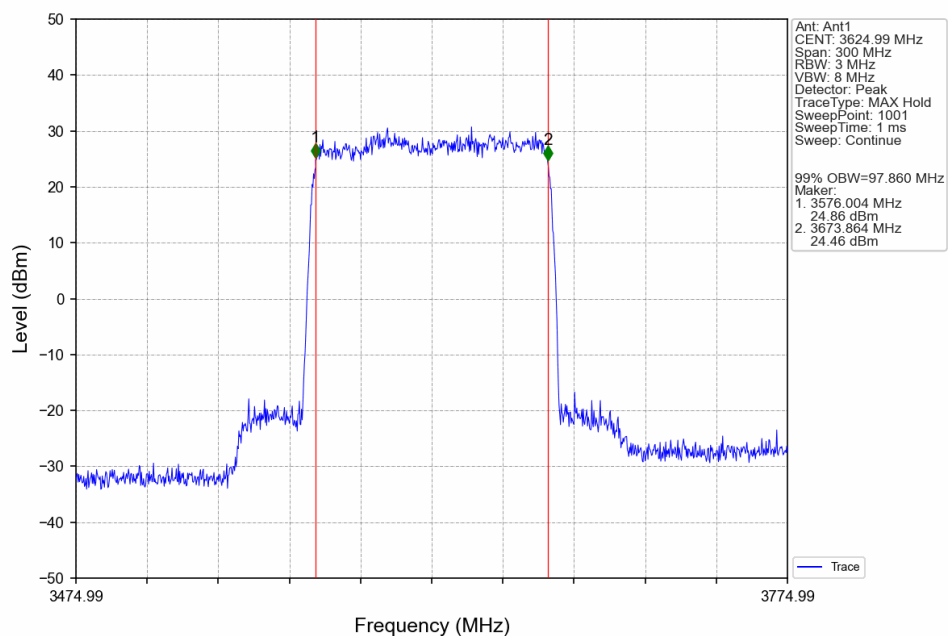
Band n48 Single NTN						
BW (MHz)	DL Frequency (MHz)	Test Mode	Ant No.	26dB Bandwidth (MHz)		Verdict
				Result	Limit	
CC1:100	CC1:3600	NR-FR1-TM3.1a	1	104.50	/	Pass
			2	104.47	/	Pass
			3	104.46	/	Pass
			4	104.57	/	Pass
	CC1:3624.99	NR-FR1-TM3.1a	1	104.22	/	Pass
			2	104.19	/	Pass
			3	104.25	/	Pass
			4	104.41	/	Pass
	CC1:3649.98	NR-FR1-TM3.1a	1	104.31	/	Pass
			2	104.50	/	Pass
			3	104.20	/	Pass
			4	104.39	/	Pass

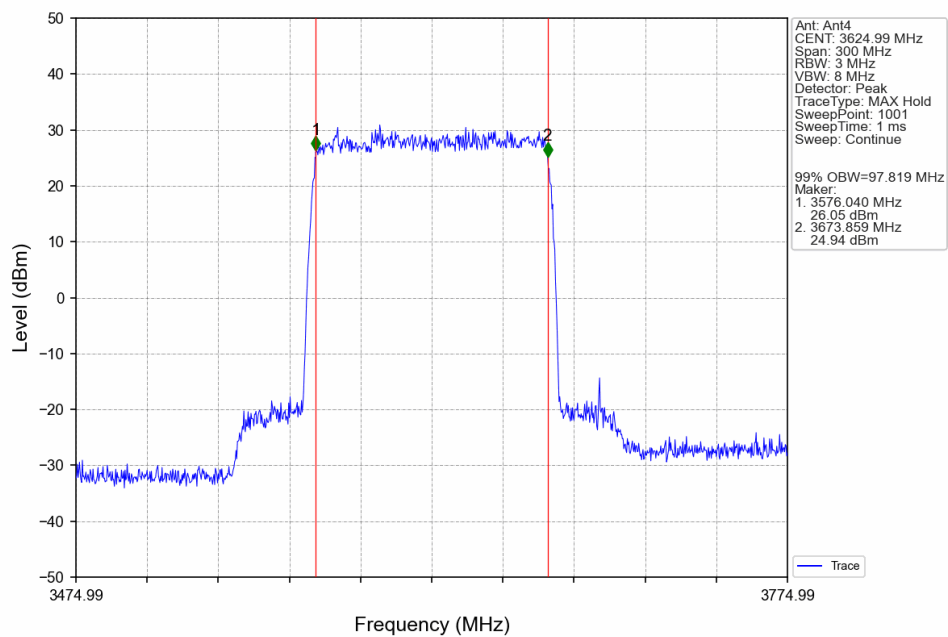
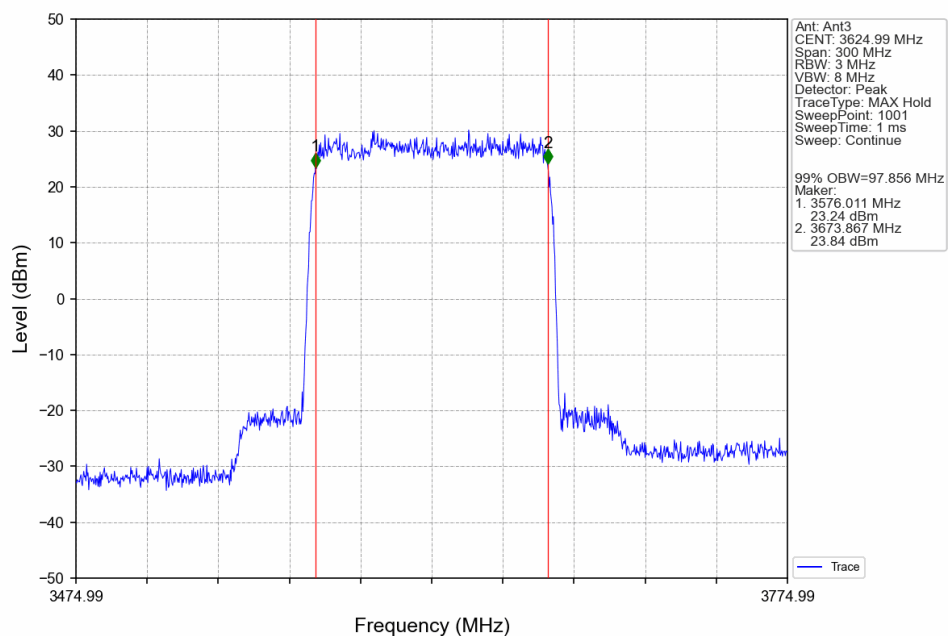
4.2 Test Graph

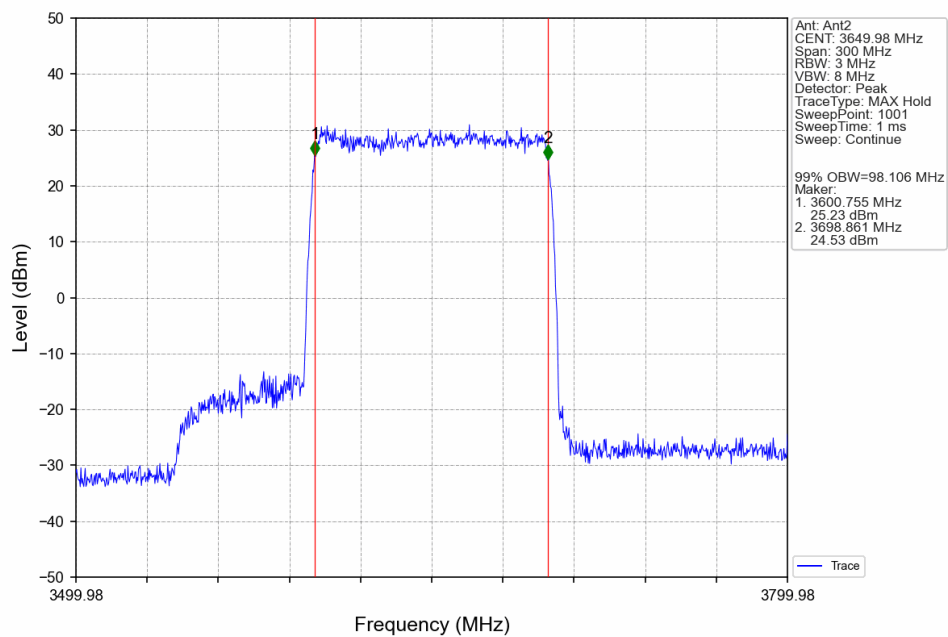
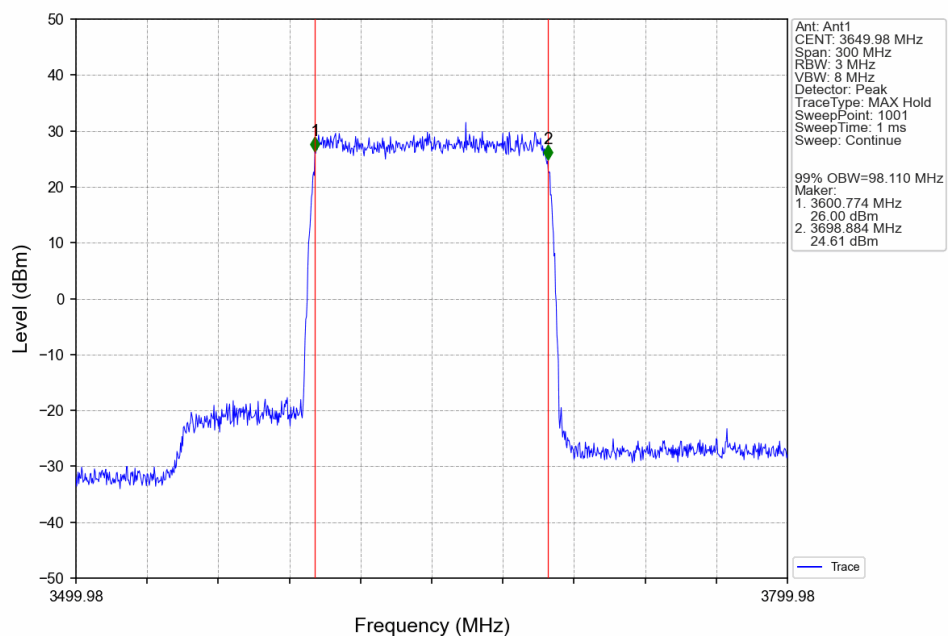
4.2.1 30_Single_OBW

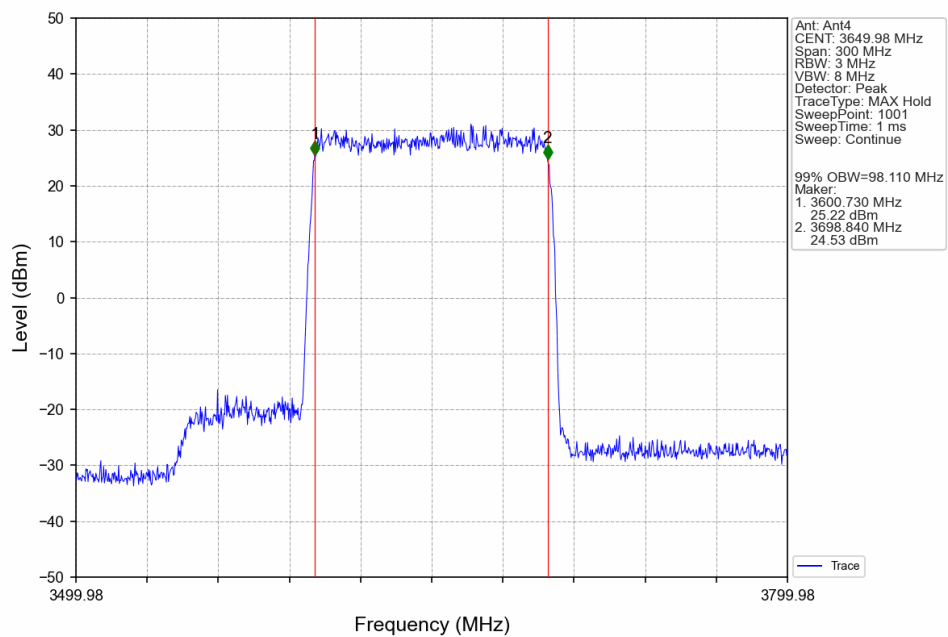
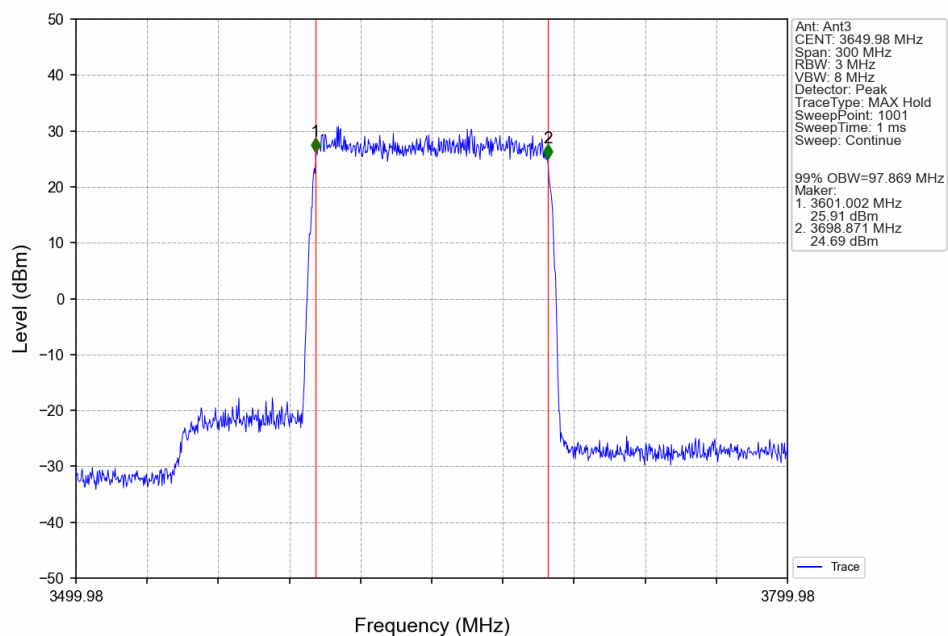




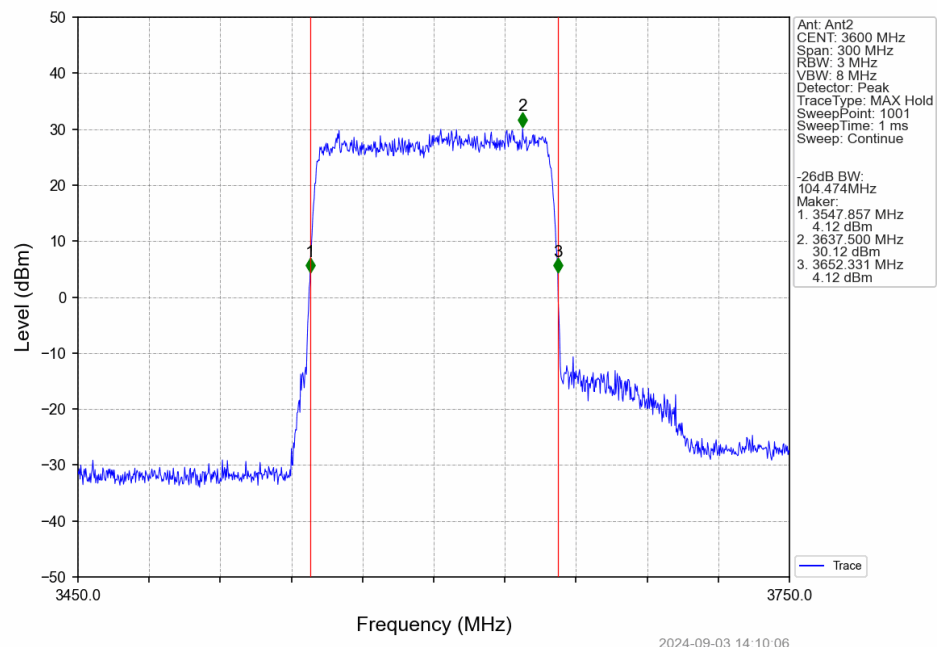
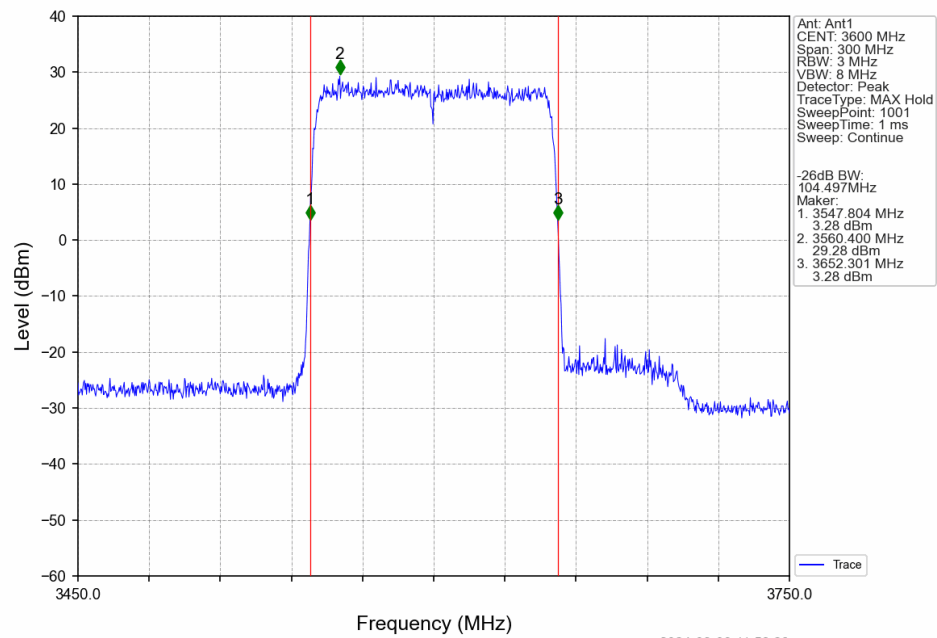


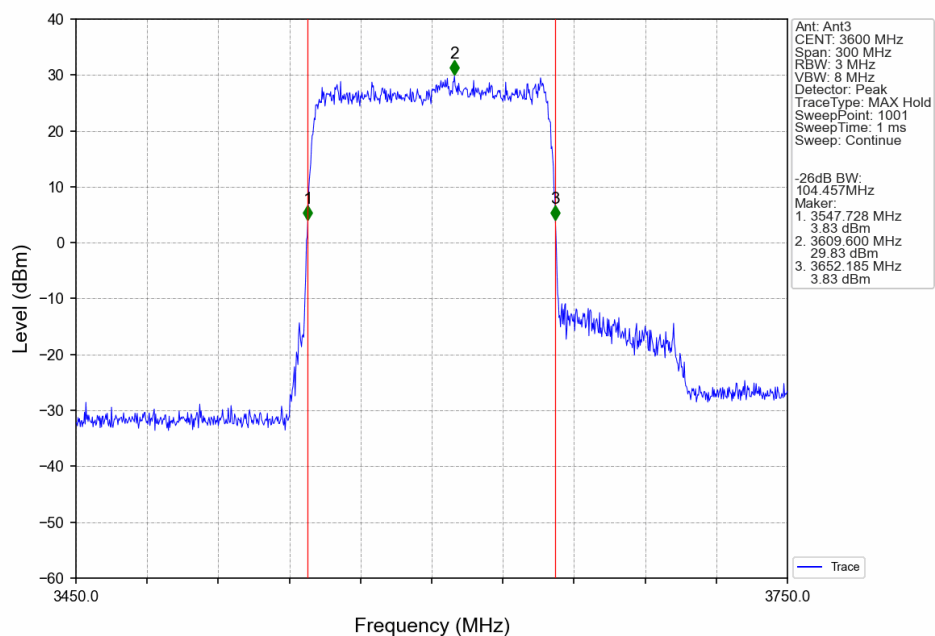




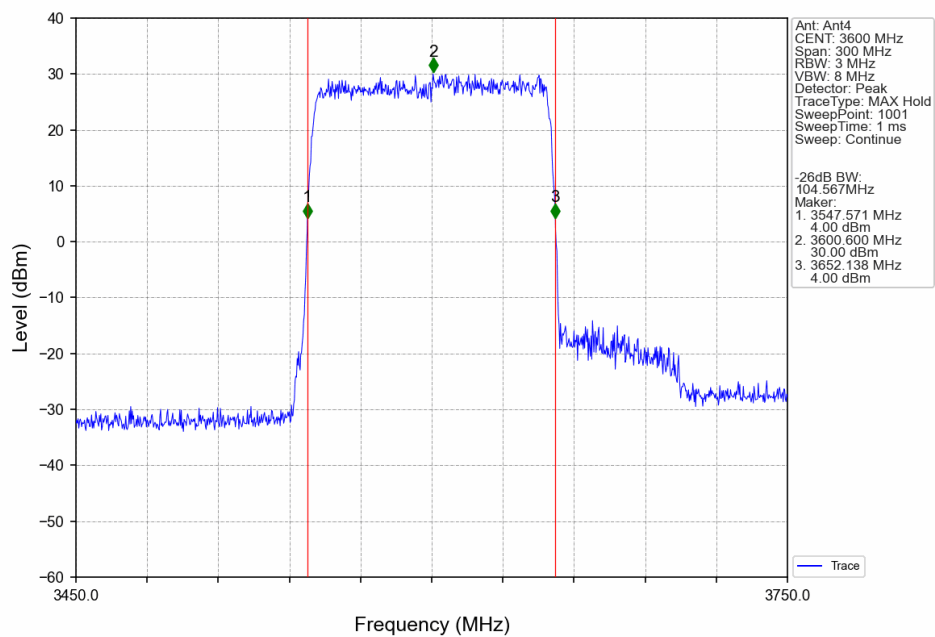


4.2.2 30_Single_XDB

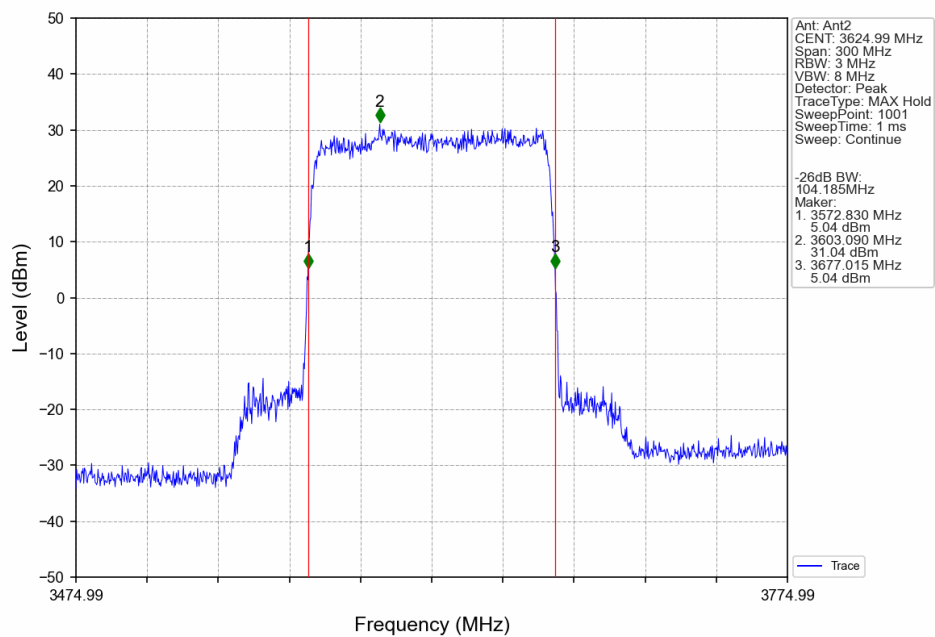
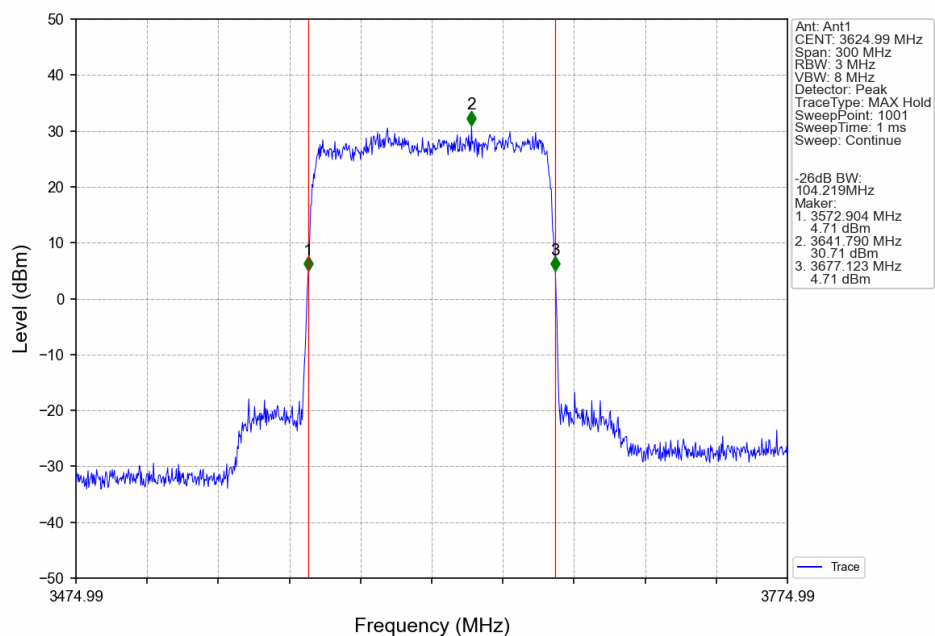


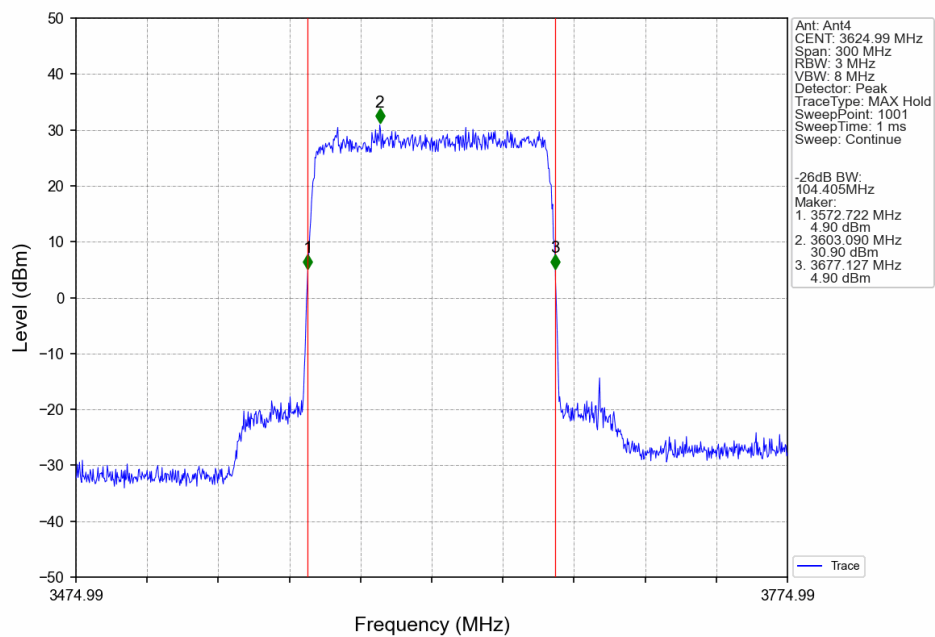
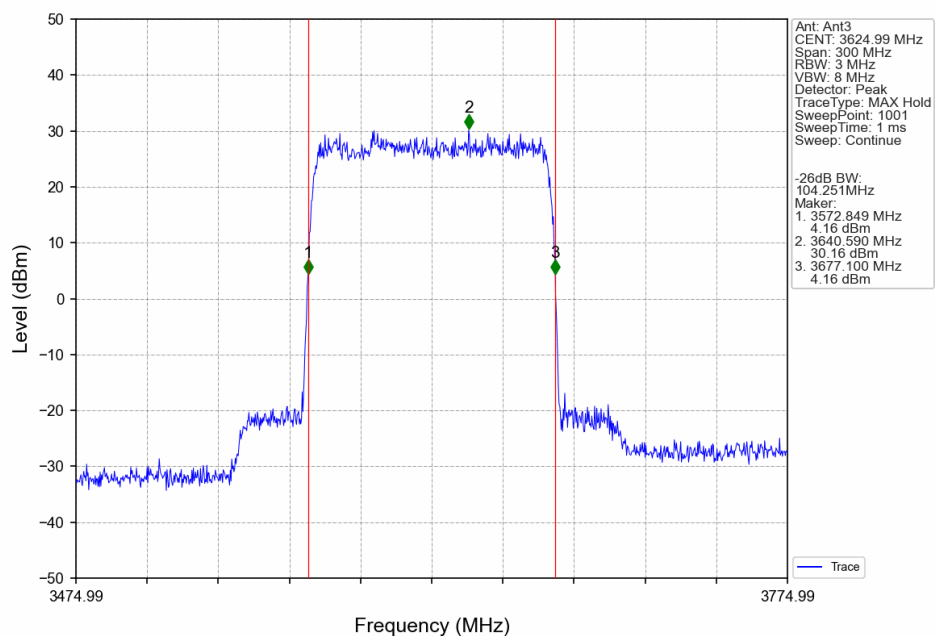


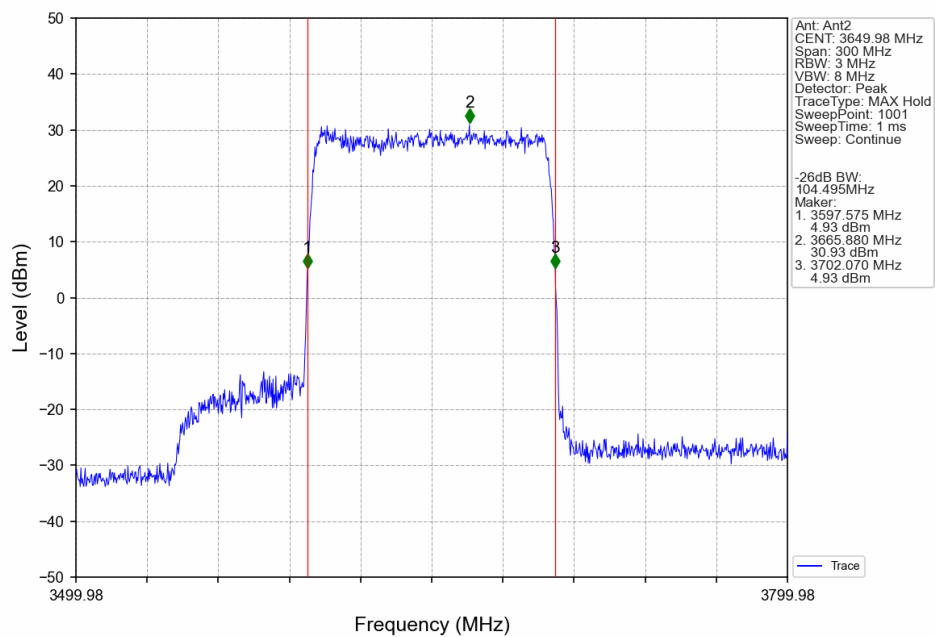
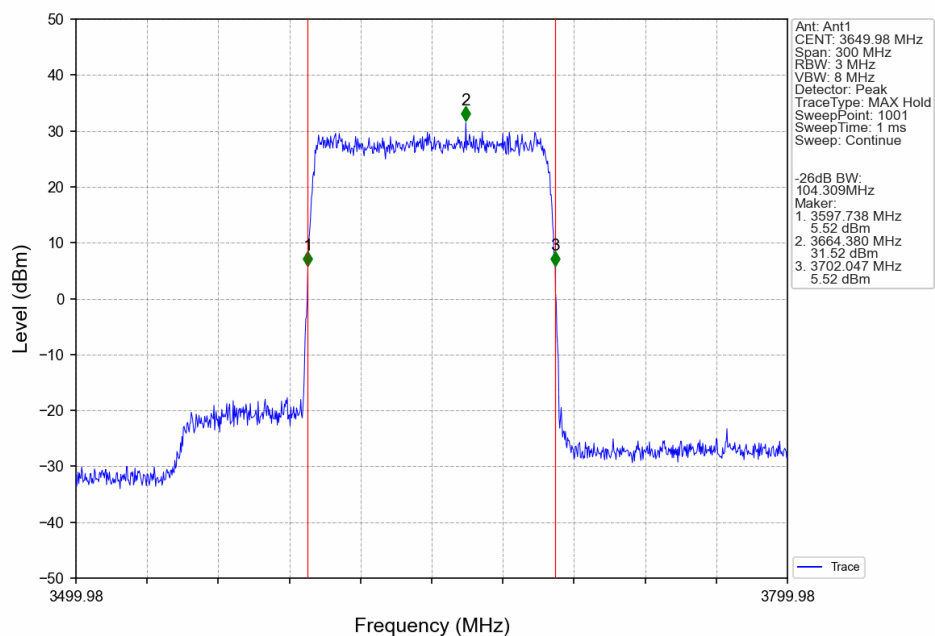
2024-09-03 14:17:27

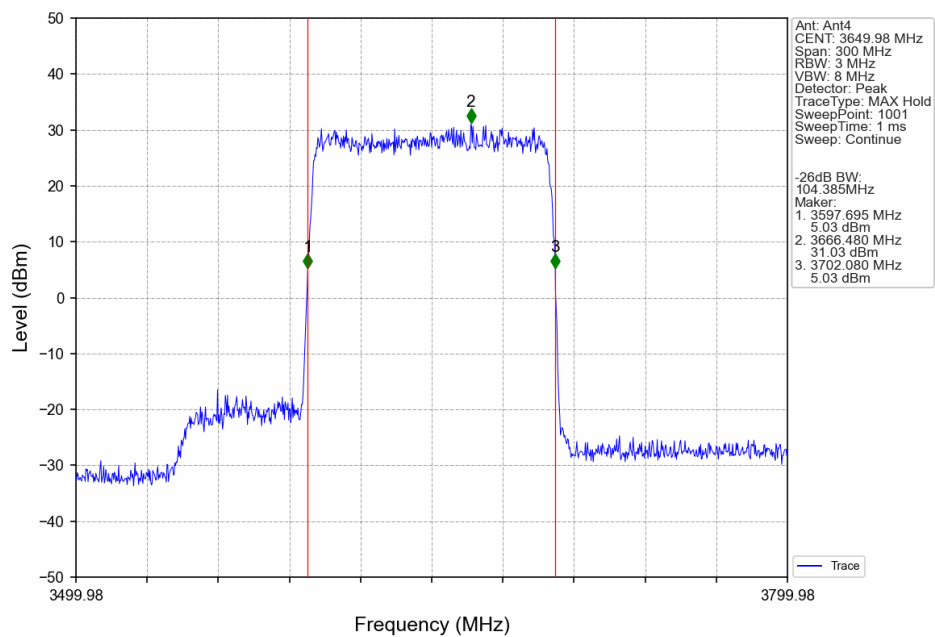
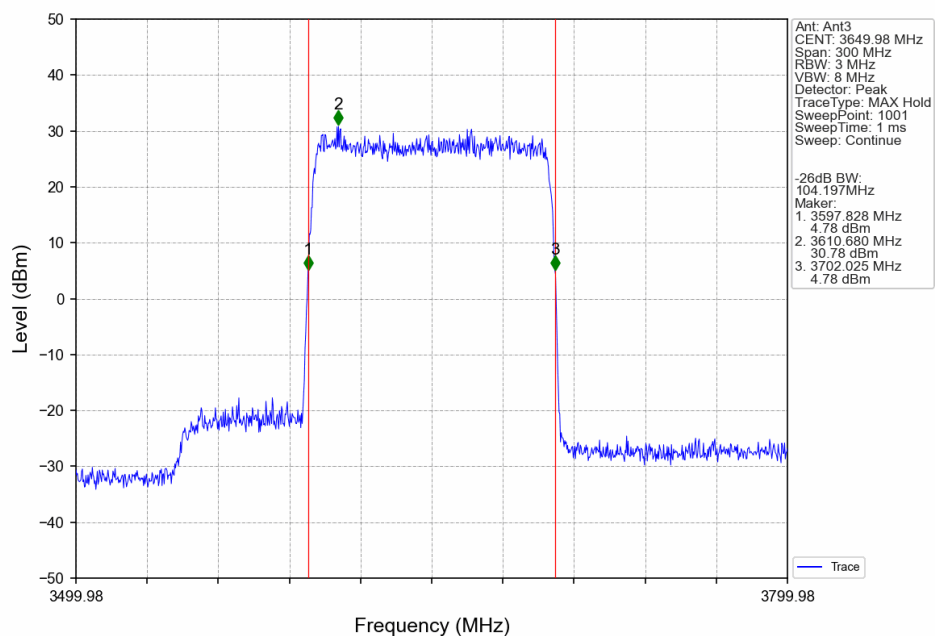


2024-09-03 14:26:43









5. Peak-Average Ratio

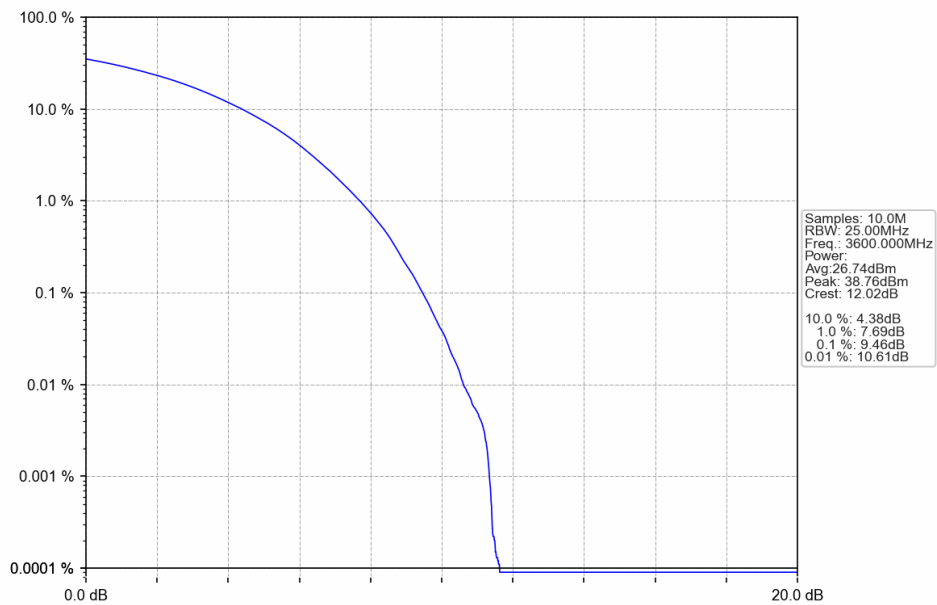
5.1 Test Result

5.1.1 30_Single

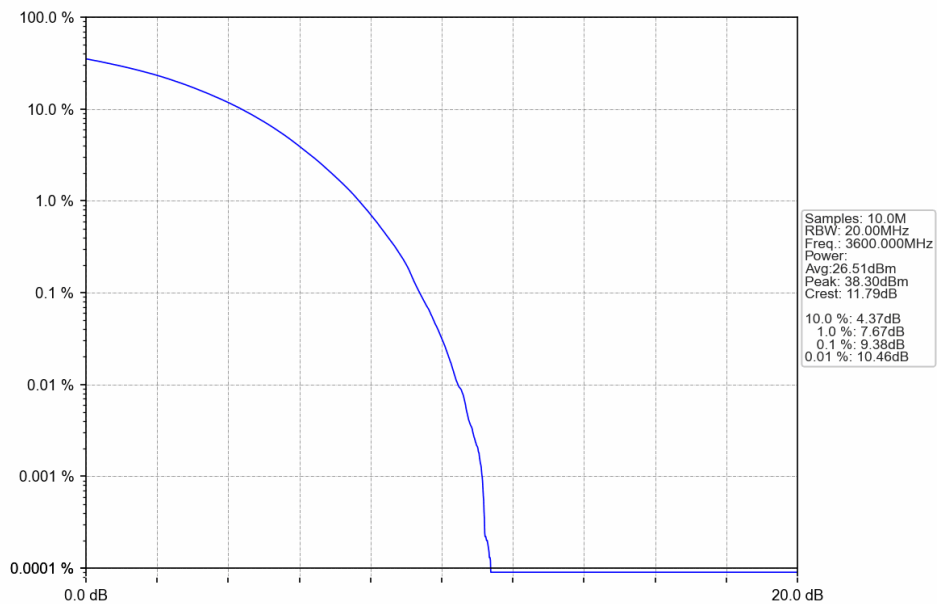
Band n48 Single NTN Ant1						
BW (MHz)	DL Frequency (MHz)	Test Mode	Ant No.	Peak-Average Ratio (dB)		Verdict
				Result	Limit	
CC1:100	CC1:3600	NR-FR1-TM3.1a	1	9.46	<=13	Pass
			2	9.38	<=13	Pass
			3	9.27	<=13	Pass
			4	9.34	<=13	Pass
	CC1:3624.99	NR-FR1-TM3.1a	1	9.35	<=13	Pass
			2	9.33	<=13	Pass
			3	9.38	<=13	Pass
			4	9.35	<=13	Pass
	CC1:3649.98	NR-FR1-TM3.1a	1	9.38	<=13	Pass
			2	9.37	<=13	Pass
			3	9.46	<=13	Pass
			4	9.36	<=13	Pass

5.2 Test Graph

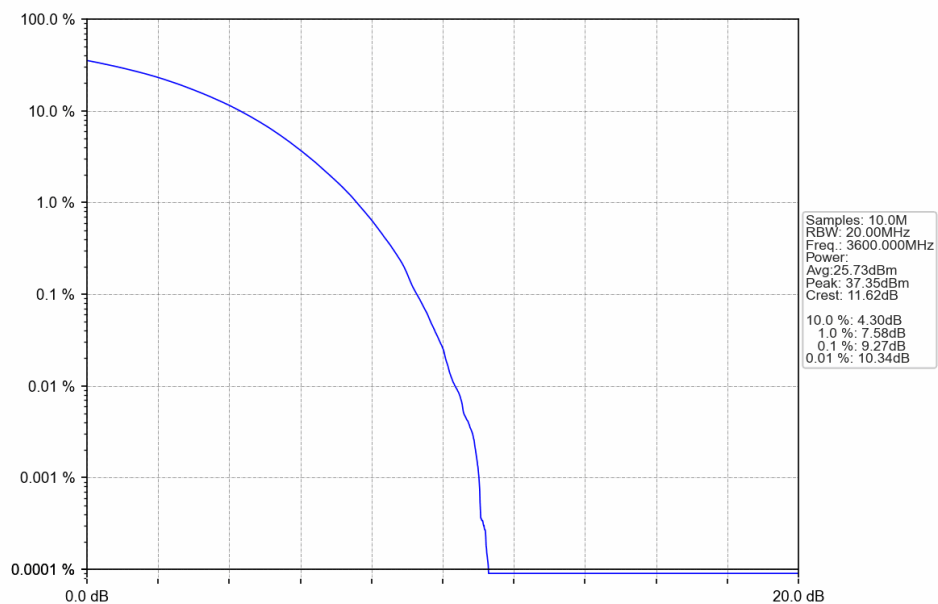
5.2.1 30_Single



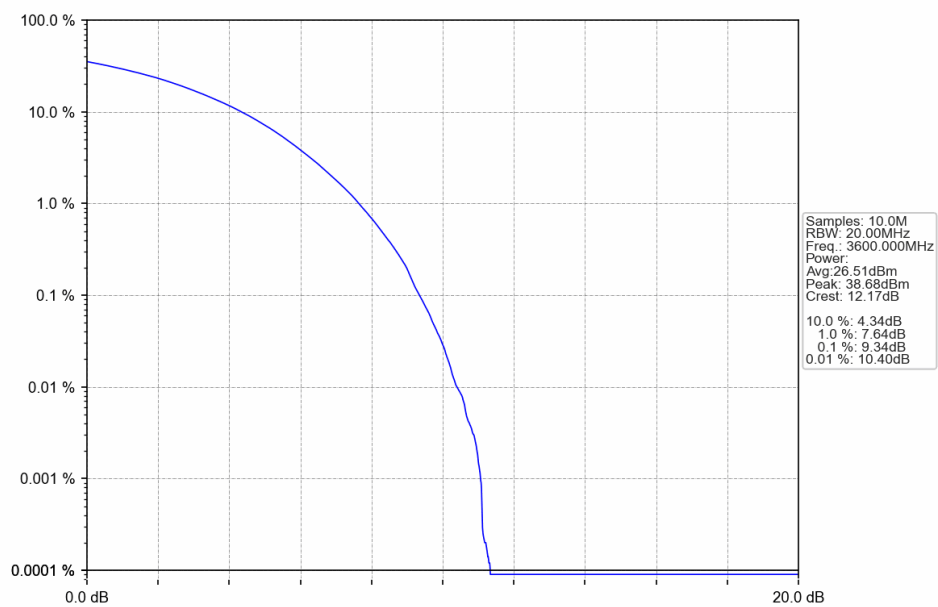
2024-09-03 11:50:57



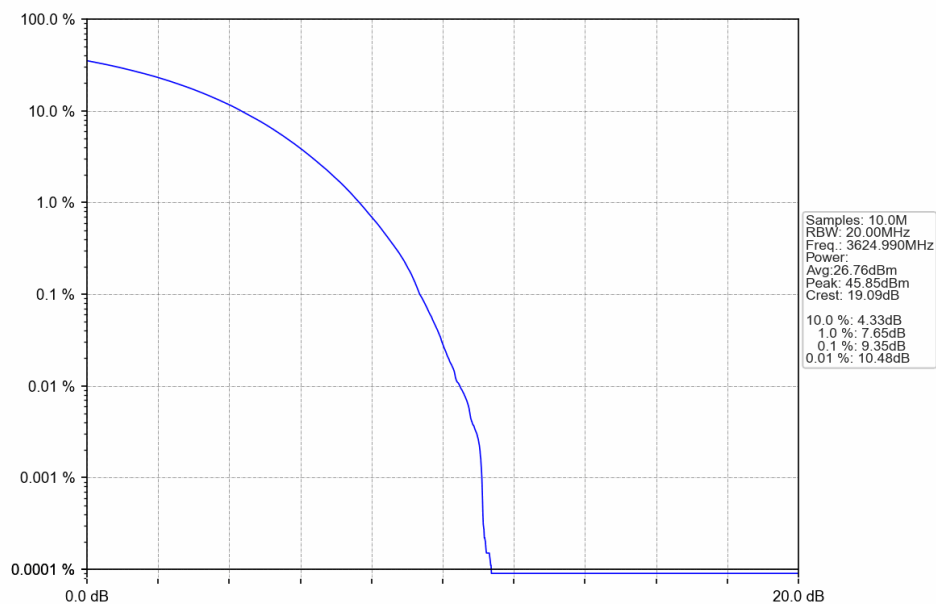
2024-09-03 14:10:15



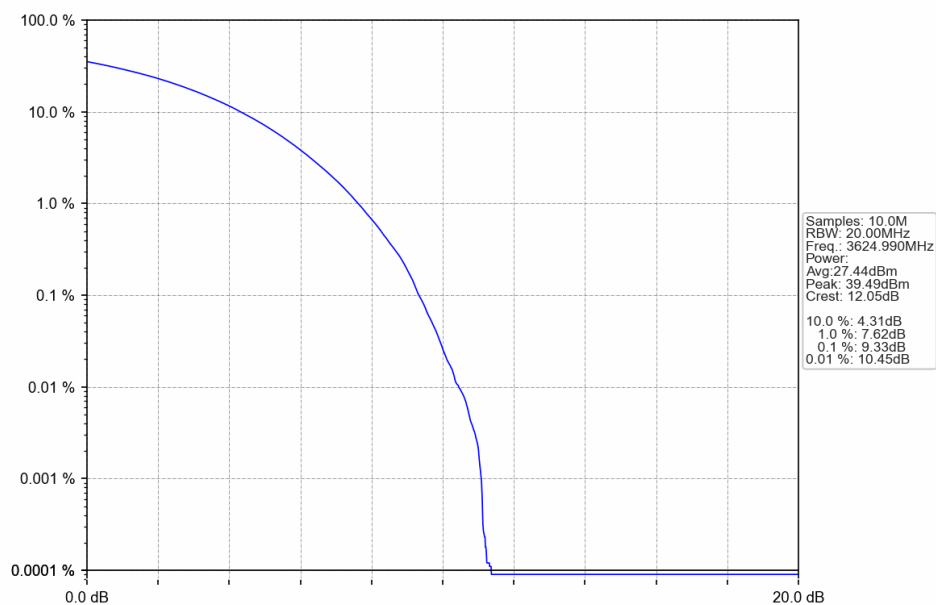
2024-09-03 14:17:36



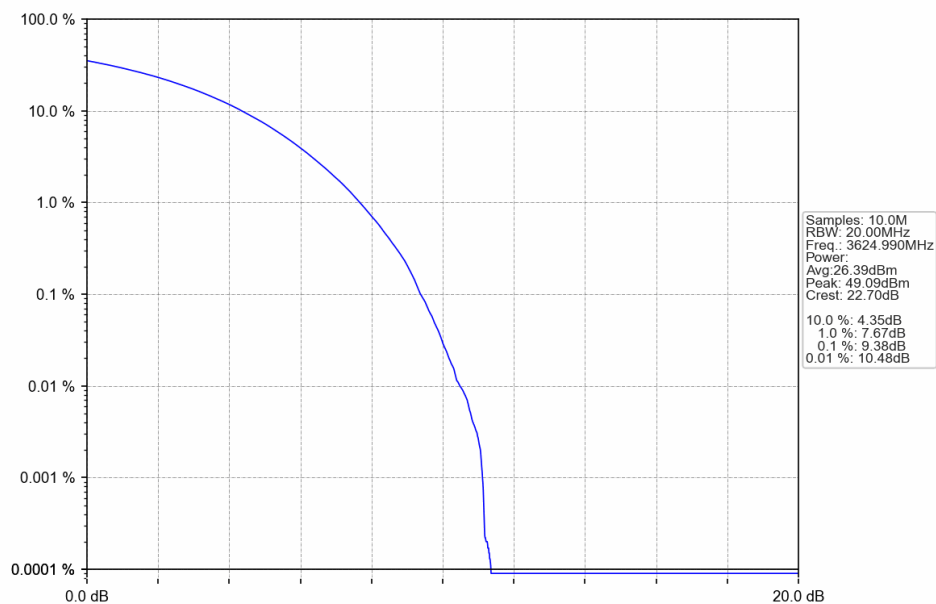
2024-09-03 14:26:51



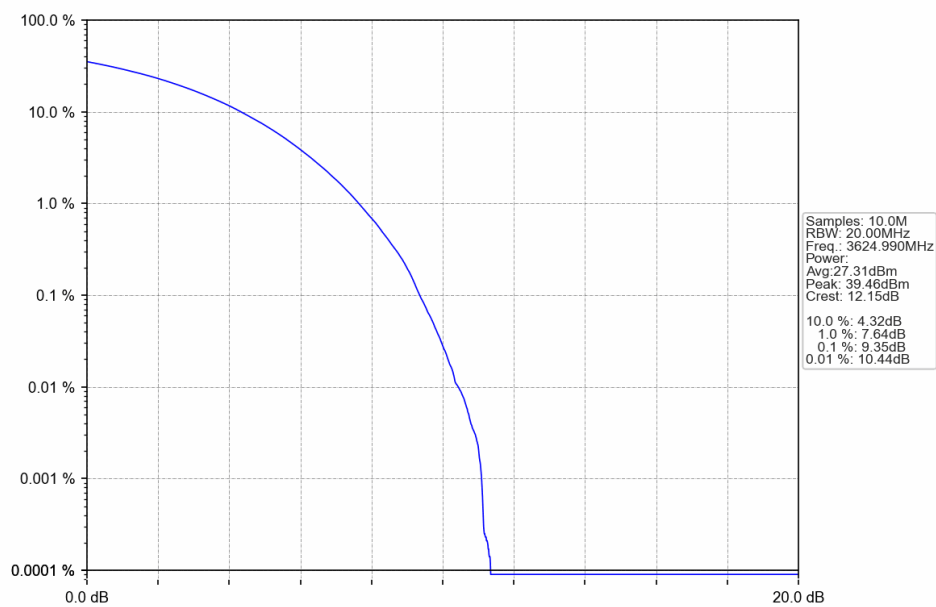
2024-09-03 14:05:07



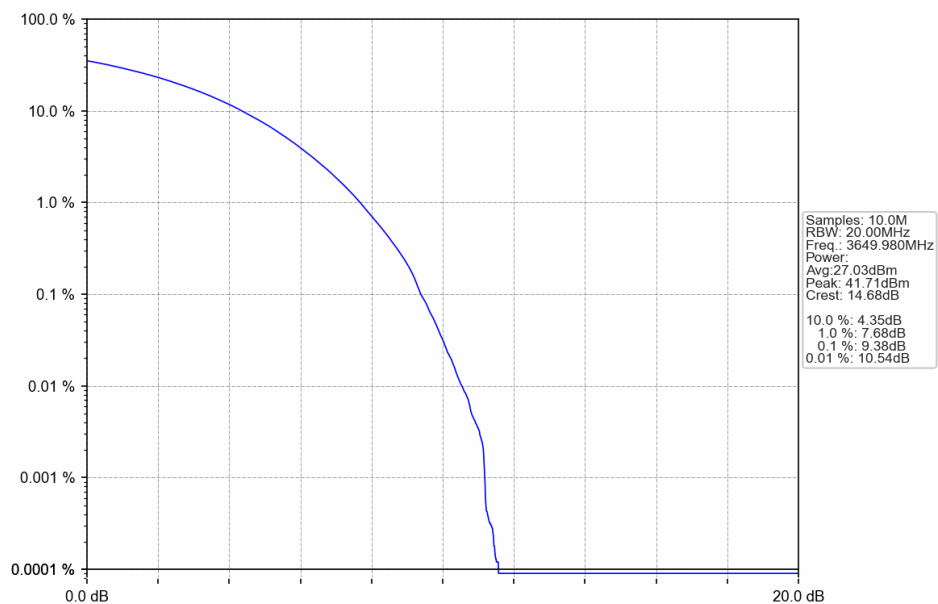
2024-09-03 14:11:38



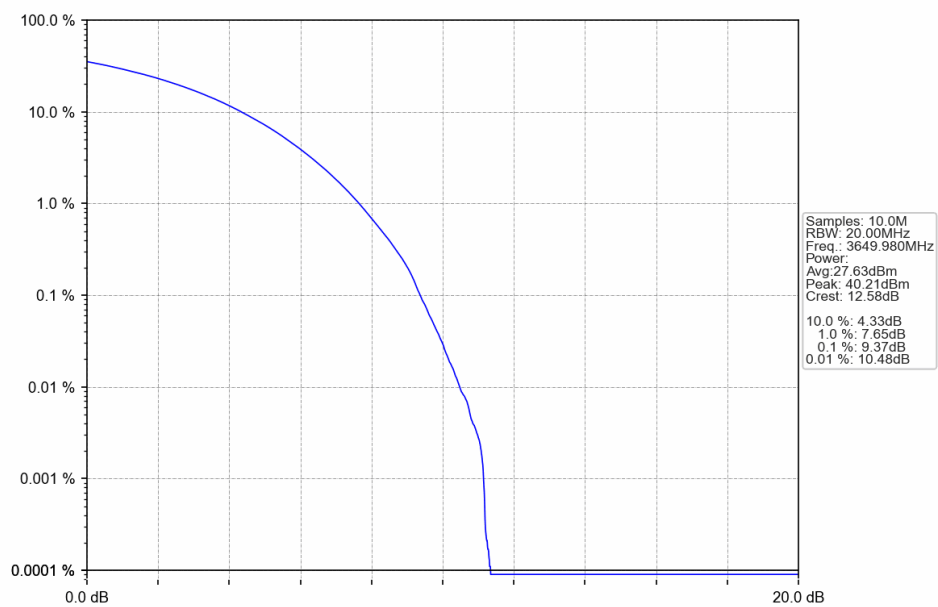
2024-09-03 14:20:10



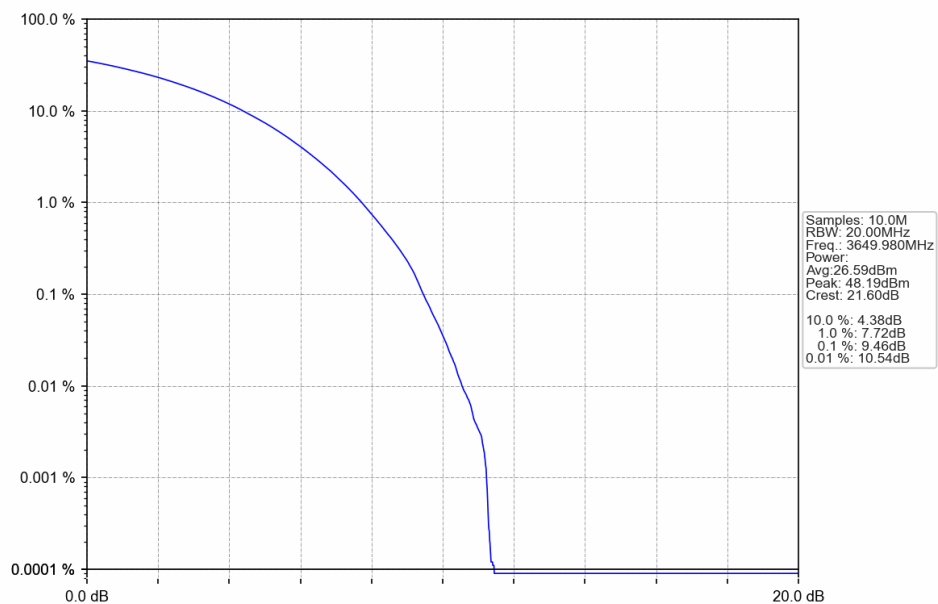
2024-09-03 14:29:19



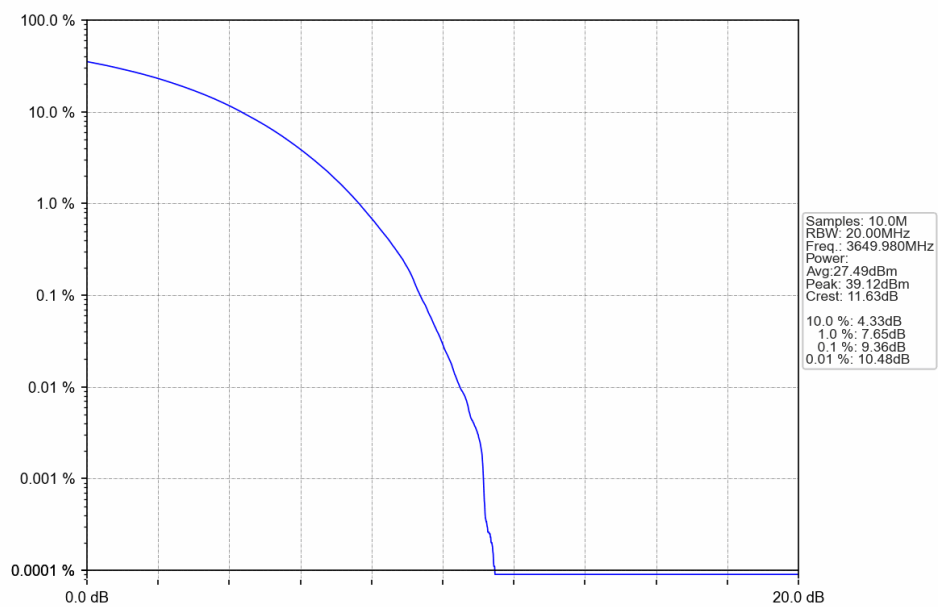
2024-09-03 14:07:54



2024-09-03 14:13:15



2024-09-03 14:23:15



2024-09-03 14:32:12

6. Spurious Emission

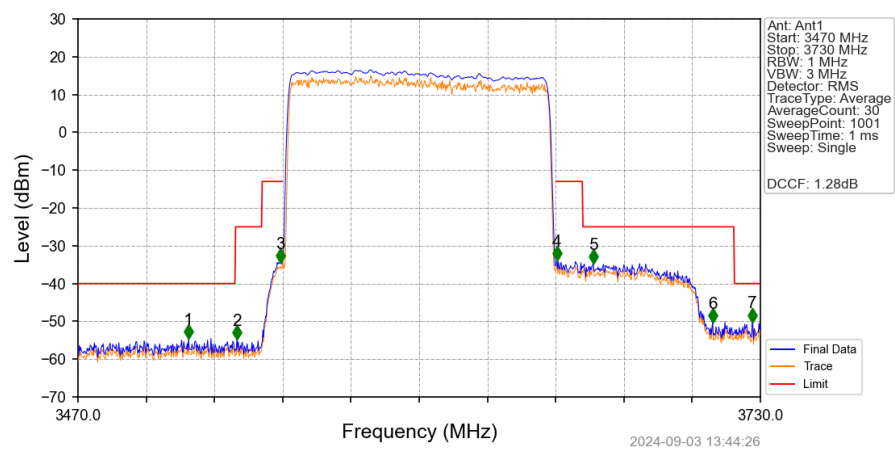
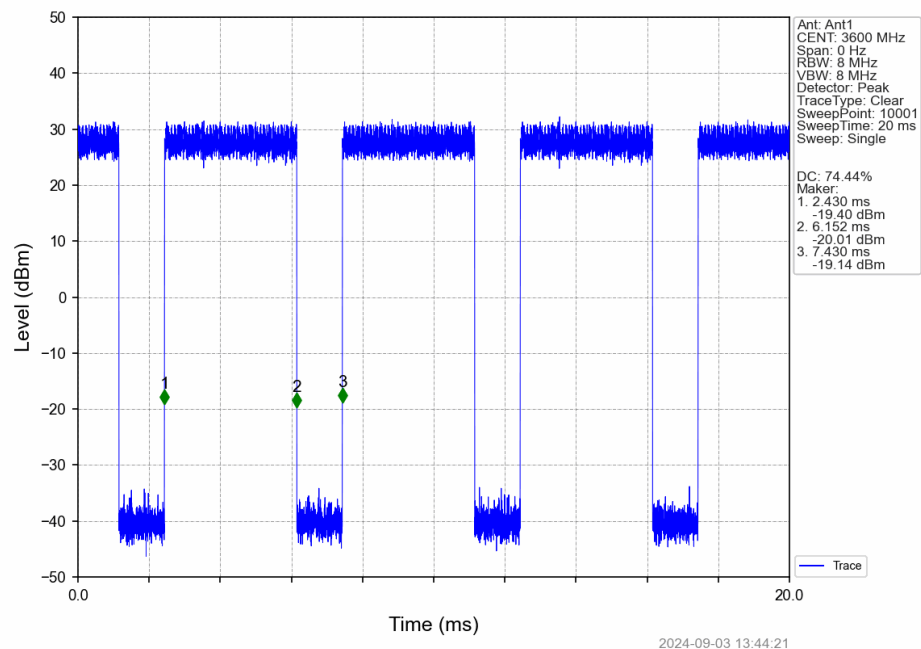
6.1 Test Result

6.1.1 30_Single

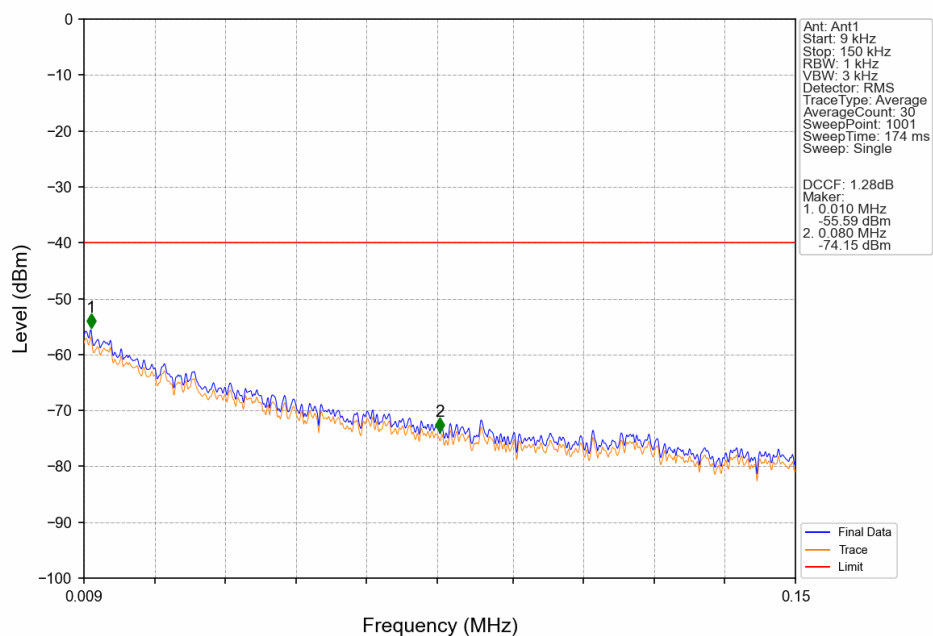
Band n48 Single NTN Ant1						
BW (MHz)	DL Frequency (MHz)	Test Mode	Ant No.	Spurious Emission		Verdict
				Result	Limit	
CC1:100	CC1:3600	NR-FR1-TM3.1a	1	Refer To Test Graph		Pass
			2	Refer To Test Graph		Pass
			3	Refer To Test Graph		Pass
			4	Refer To Test Graph		Pass
			Sum	Refer To Test Graph		Pass
	CC1:3624.99	NR-FR1-TM3.1a	1	Refer To Test Graph		Pass
			2	Refer To Test Graph		Pass
			3	Refer To Test Graph		Pass
			4	Refer To Test Graph		Pass
			Sum	Refer To Test Graph		Pass
	CC1:3649.98	NR-FR1-TM3.1a	1	Refer To Test Graph		Pass
			2	Refer To Test Graph		Pass
			3	Refer To Test Graph		Pass
			4	Refer To Test Graph		Pass
			Sum	Refer To Test Graph		Pass

6.2 Test Graph

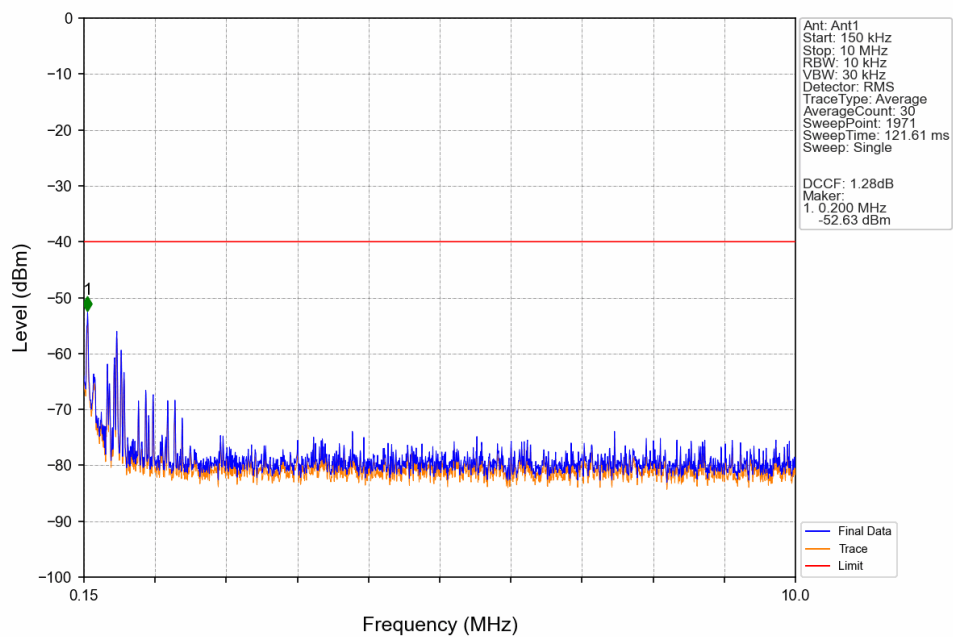
6.2.1 30_Single



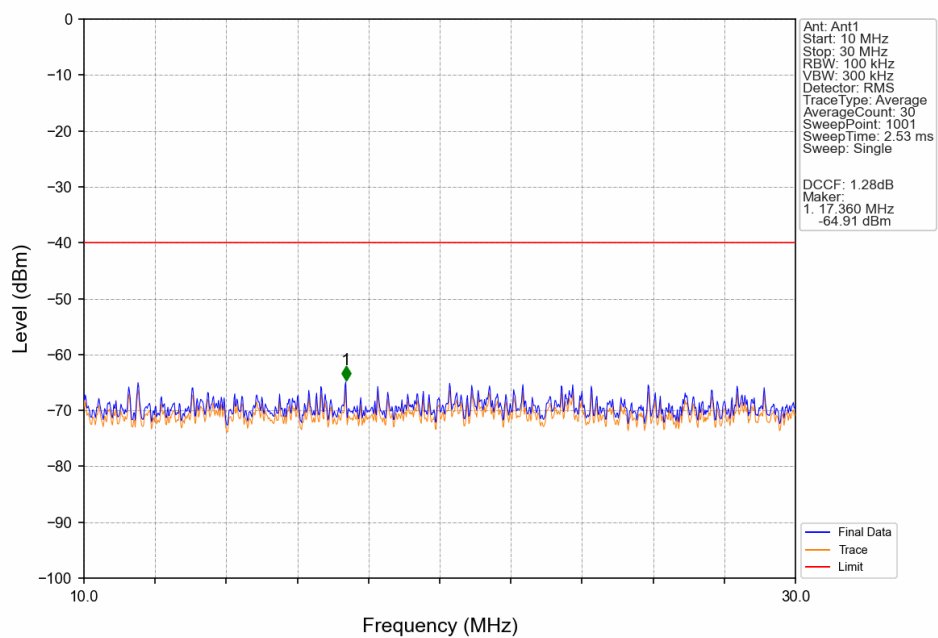
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3470	3530	1	/	1	3512.120	-54.37	-40	Pass
3530	3540	1	/	2	3530.580	-54.49	-25	Pass
3540	3547.752	1.474	/	3	3547.220	-34.18	-13	Pass
3547.752	3652.249	1.474	CHP	/	/	/	/	/
3652.249	3662.249	1	/	4	3652.520	-33.59	-13	Pass
3662.249	3720	1	/	5	3666.300	-34.49	-25	Pass
3720	3720	1	/	6	3711.800	-50.04	-25	Pass
3720	3730	1	/	7	3726.880	-49.92	-40	Pass



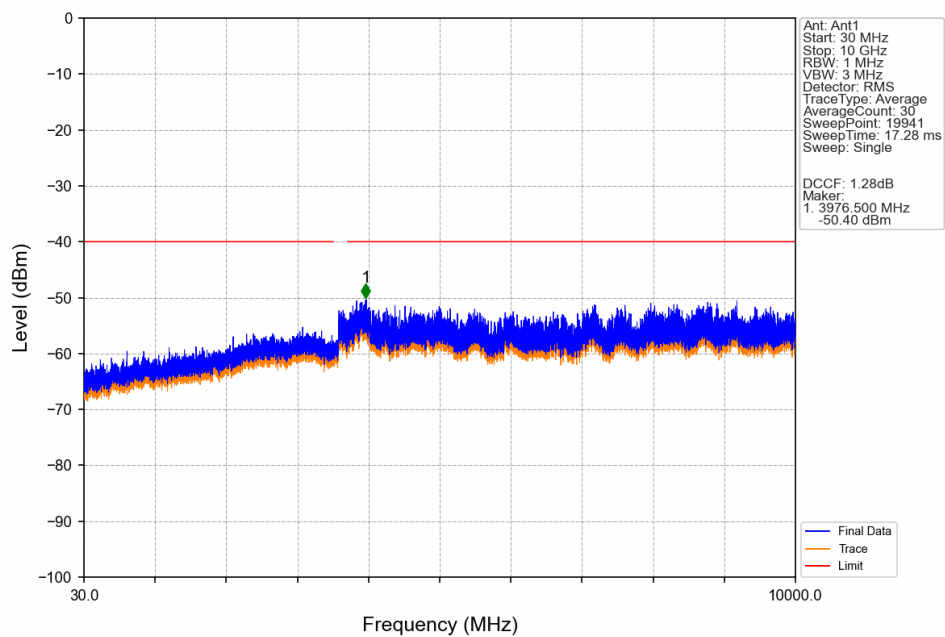
2024-09-03 16:41:04



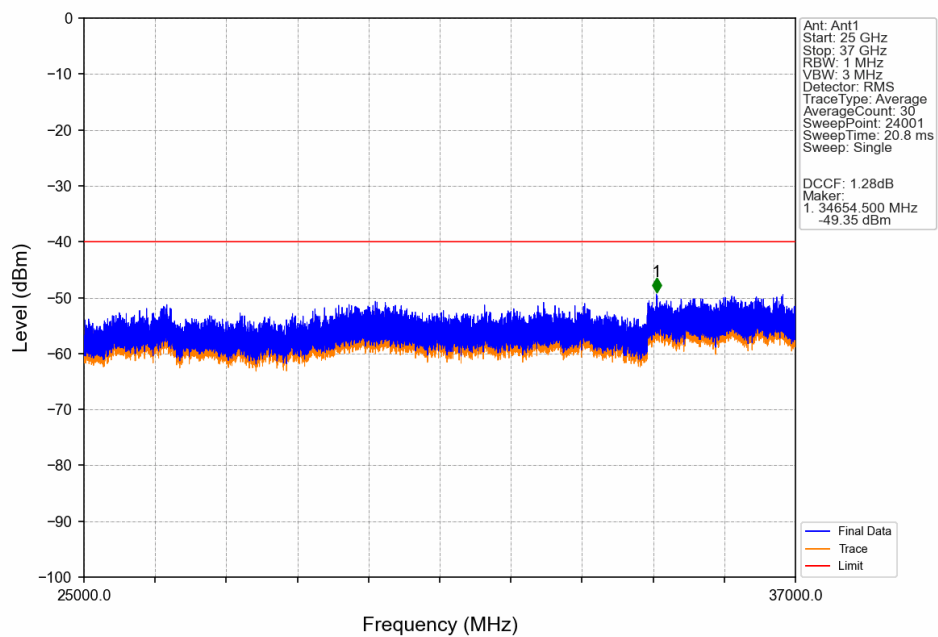
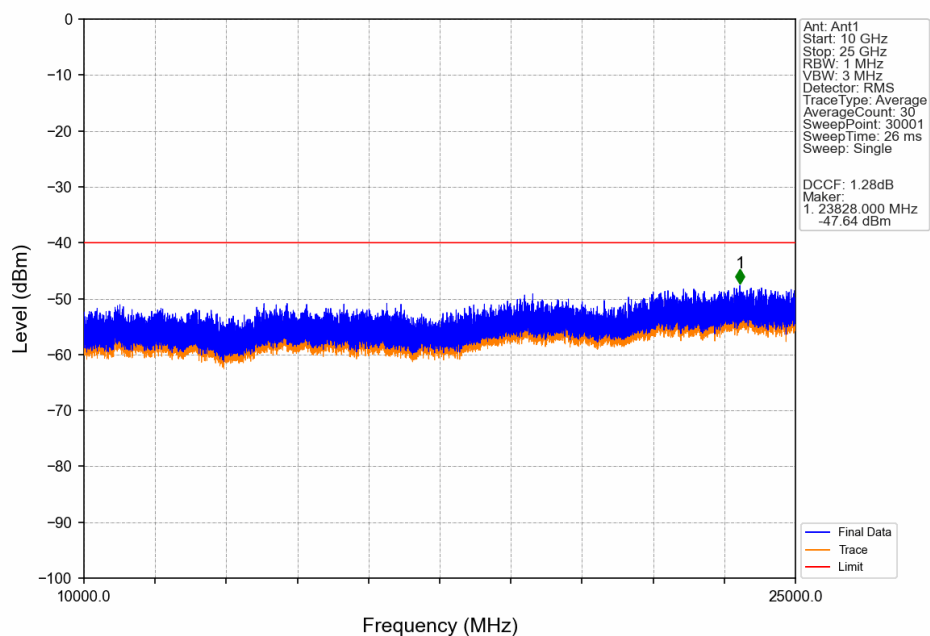
2024-09-03 13:44:38

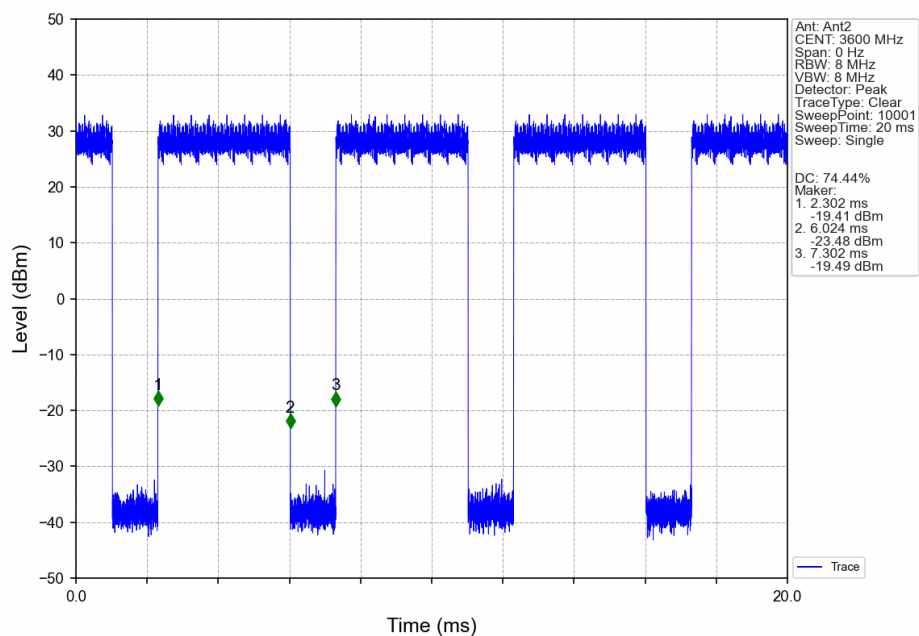


2024-09-03 13:44:39

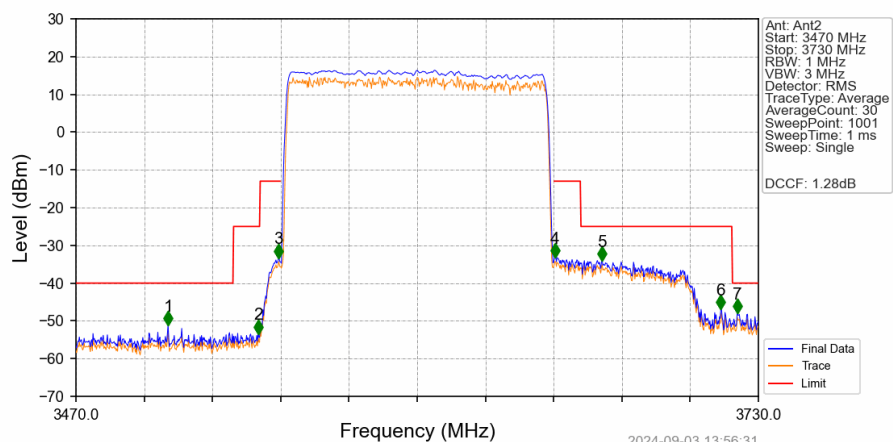


2024-09-03 16:41:11



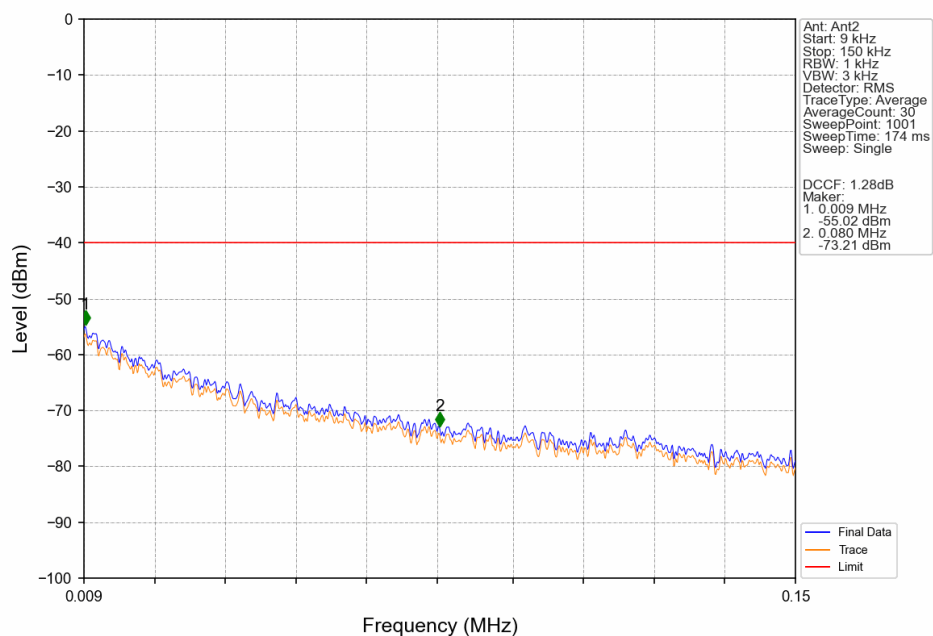


2024-09-03 13:56:26

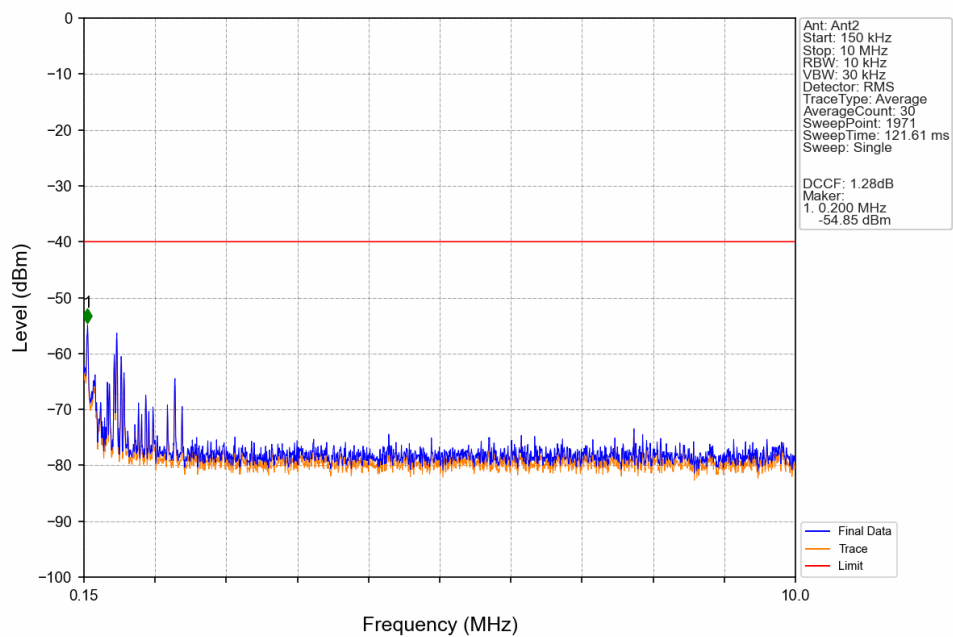


2024-09-03 13:56:31

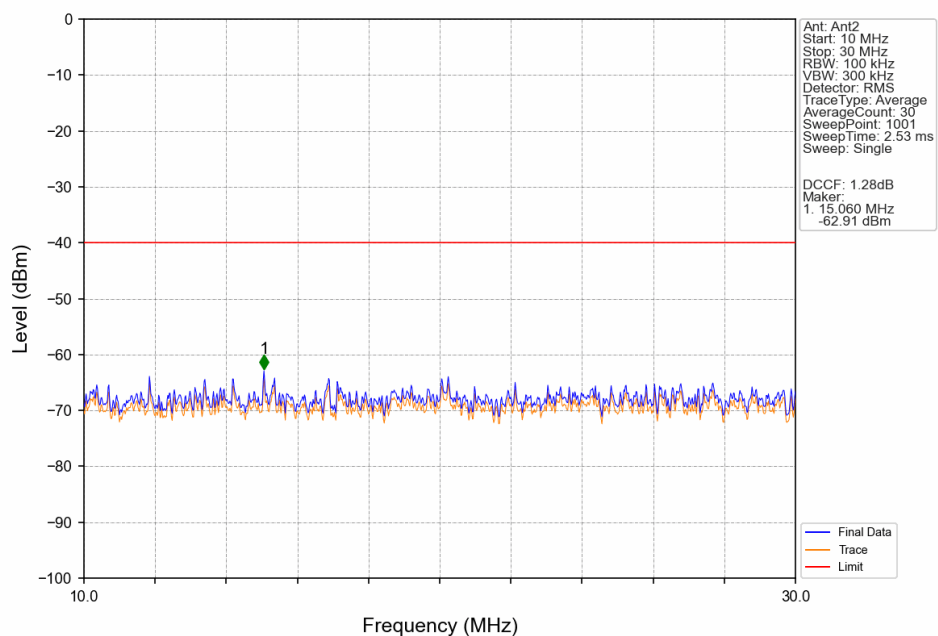
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3470	3530	1	/	1	3505.100	-50.94	-40	Pass
3530	3540	1	/	2	3539.420	-53.11	-25	Pass
3540	3547.763	1.474	/	3	3547.220	-33.02	-13	Pass
3547.763	3652.237	1.474	CHP	/	/	/	/	/
3652.237	3662.237	1	/	4	3652.520	-32.96	-13	Pass
3662.237	3720	1	/	5	3670.460	-33.83	-25	Pass
3720	3720	1	/	6	3715.700	-46.69	-25	Pass
3720	3730	1	/	7	3721.940	-47.65	-40	Pass



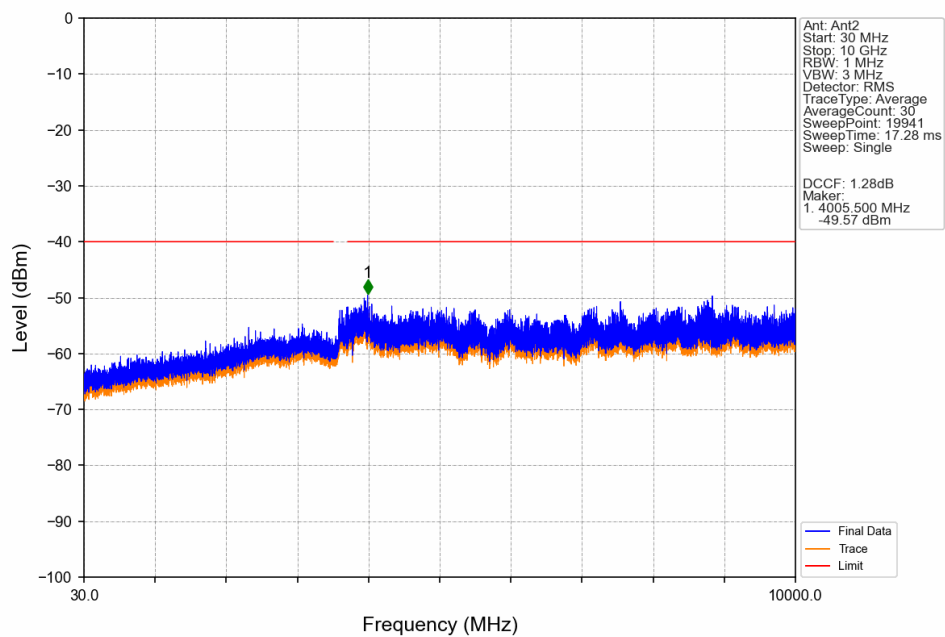
2024-09-03 16:44:36



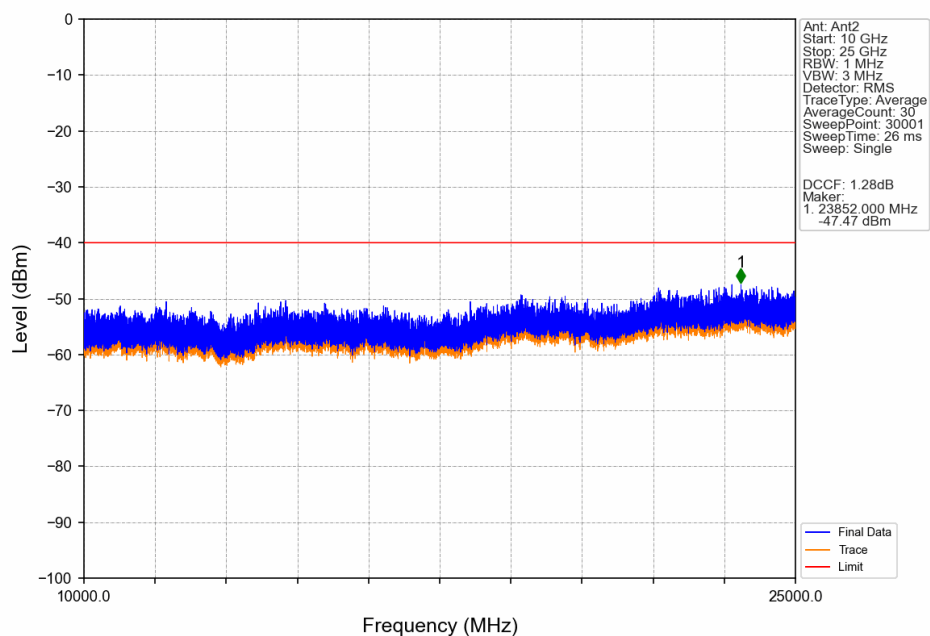
2024-09-03 13:56:43



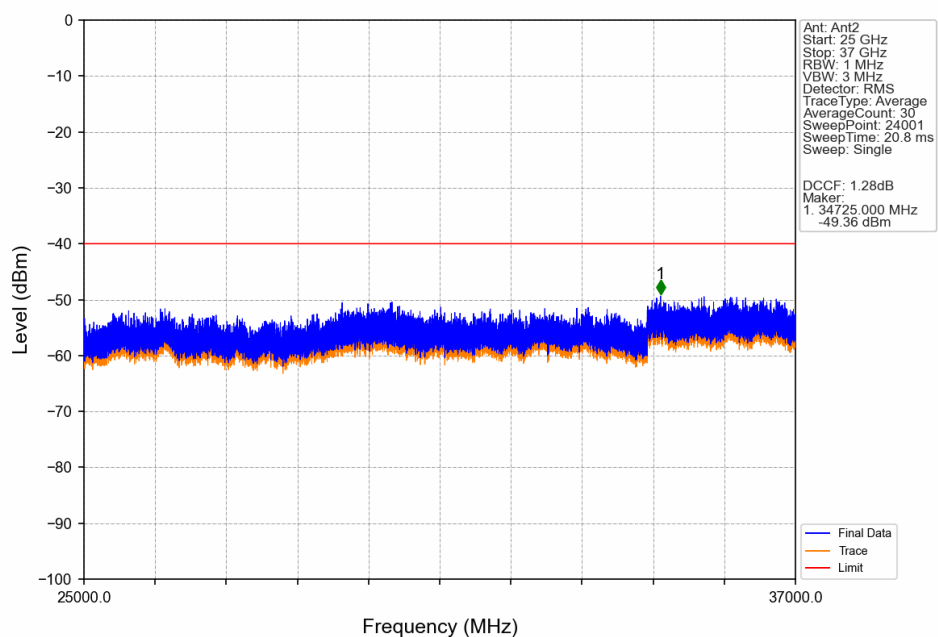
2024-09-03 13:56:44



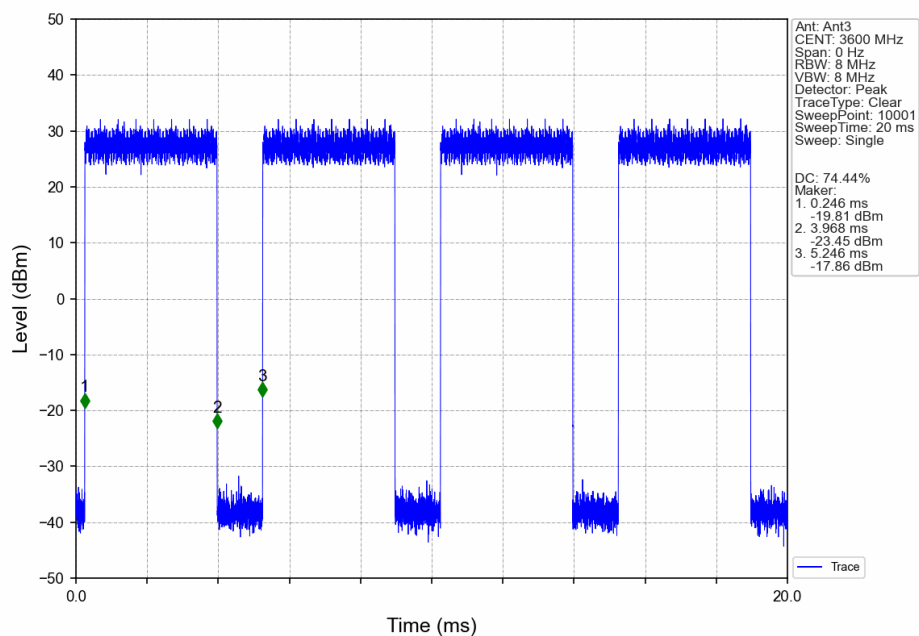
2024-09-03 16:44:43



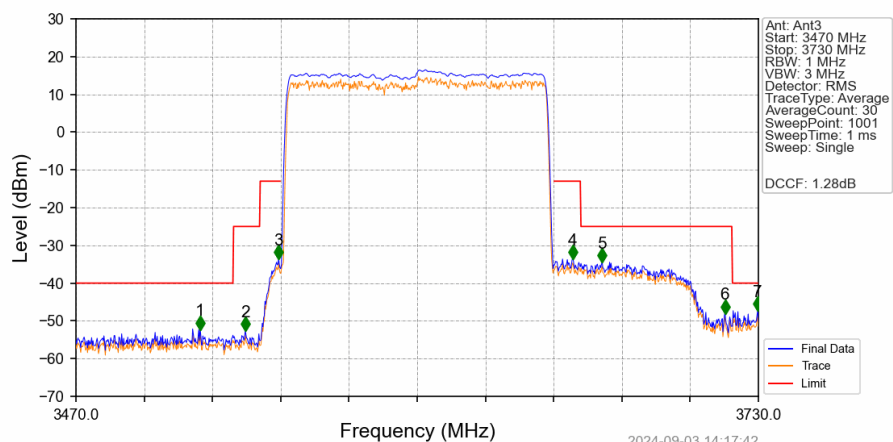
2024-09-03 16:44:52



2024-09-03 16:57:39

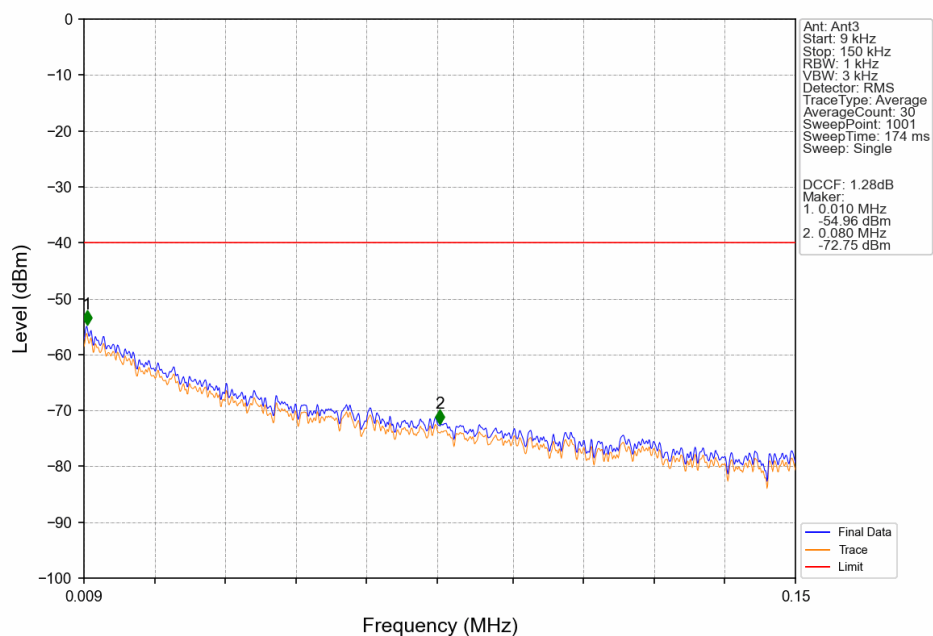


2024-09-03 14:17:37

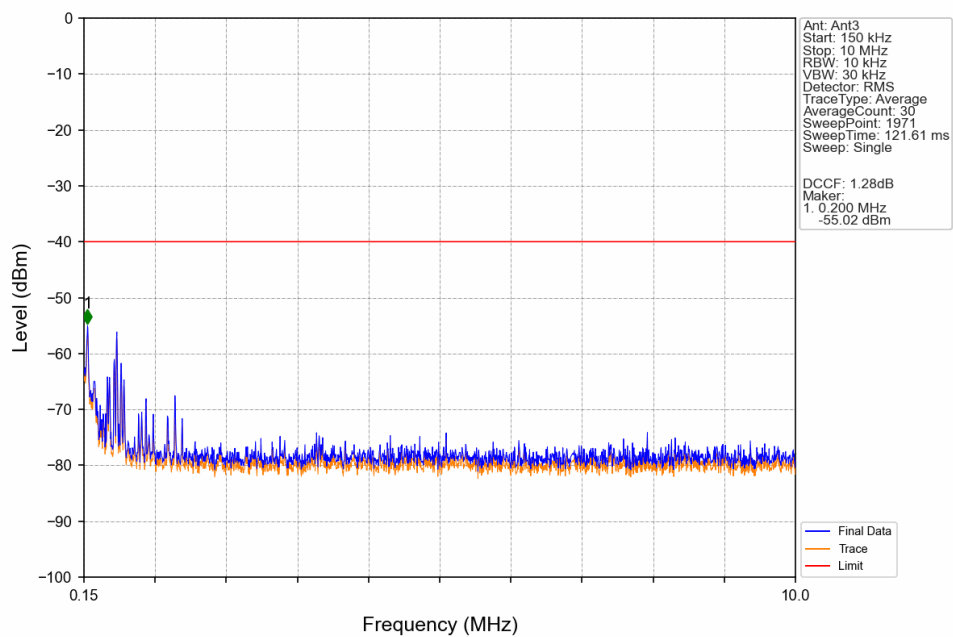


2024-09-03 14:17:42

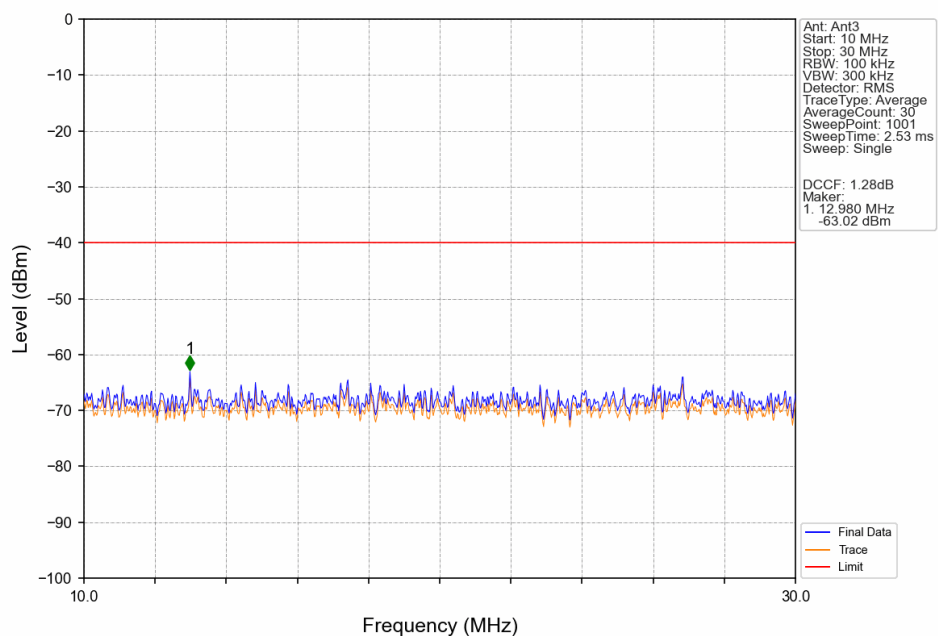
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3470	3530	1	/	1	3517.320	-52.04	-40	Pass
3530	3540	1	/	2	3534.480	-52.39	-25	Pass
3540	3547.772	1.474	/	3	3547.220	-33.36	-13	Pass
3547.772	3652.229	1.474	CHP	/	/	/	/	/
3652.229	3662.229	1	/	4	3659.280	-33.38	-13	Pass
3662.229	3720	1	/	5	3670.460	-34.22	-25	Pass
3720	3720	1	/	6	3717.260	-47.80	-25	Pass
3720	3730	1	/	7	3729.740	-47.08	-40	Pass



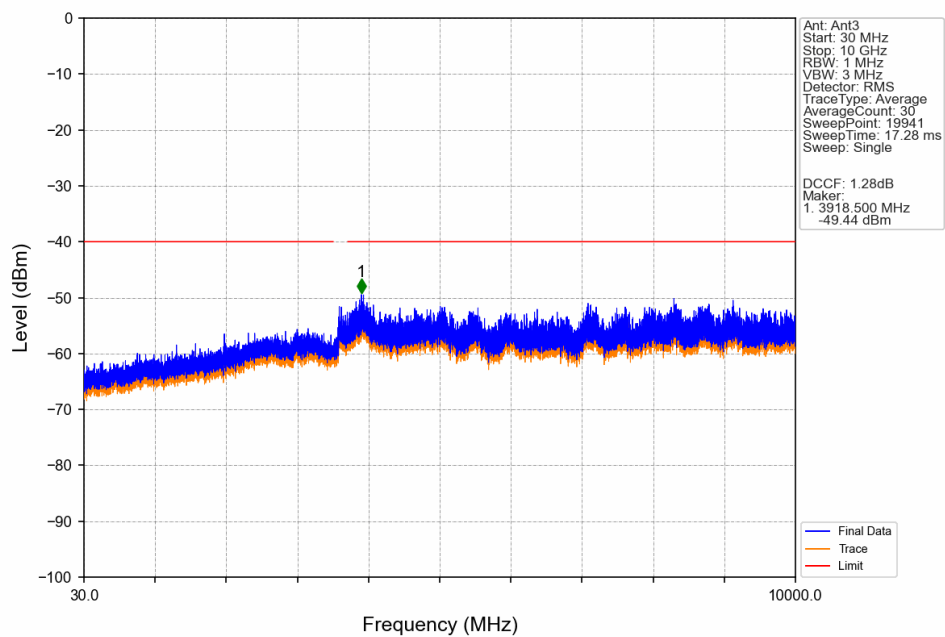
2024-09-03 16:47:34



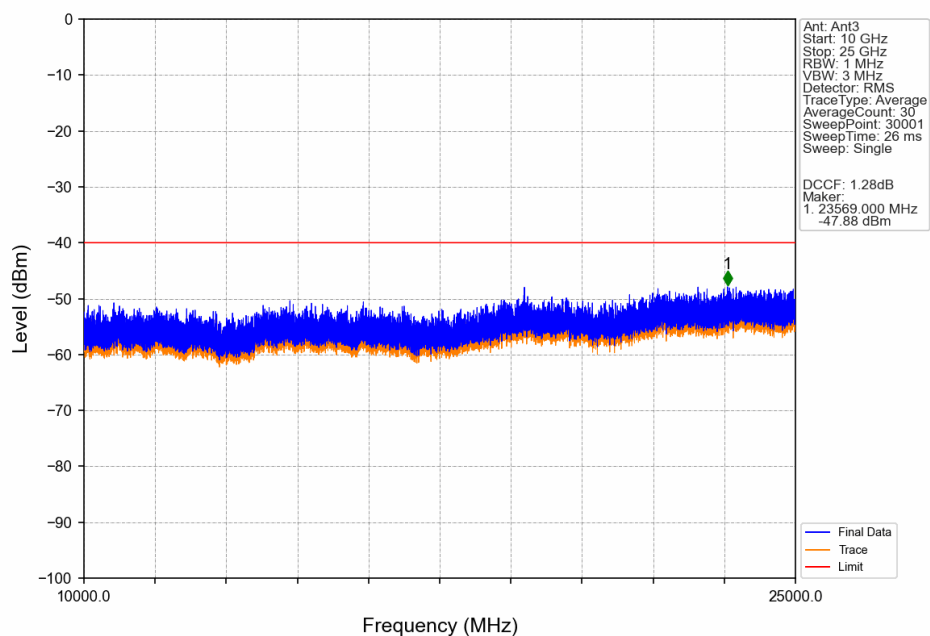
2024-09-03 14:17:54



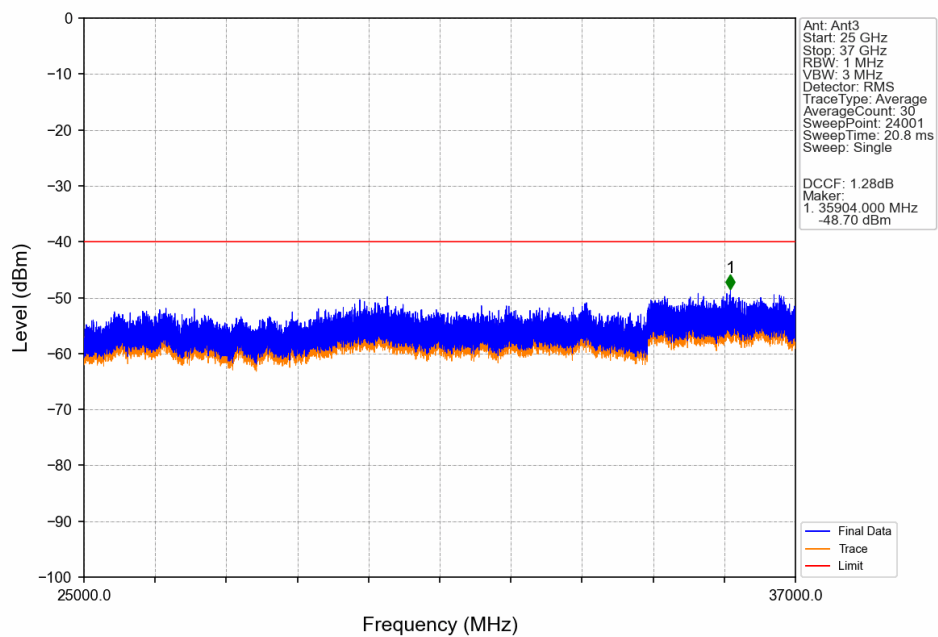
2024-09-03 14:17:55



2024-09-03 16:47:41



2024-09-03 16:47:51



2024-09-03 16:58:31