

Appendix G for KSCR2207001105AT-FCC-LTE-Band40b

1. Effective (Isotropic) Radiated Power Output Data

1.1 B40b_5MHz_EIRP

1.1.1 Test Result

Band: 40b / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dbi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2352.5	1	0	22.06	0.37	22.43	<=23.98	Pass
			13	22.02	0.37	22.39	<=23.98	Pass
			24	22.07	0.37	22.44	<=23.98	Pass
		12	0	21.11	0.37	21.48	<=23.98	Pass
			6	21.16	0.37	21.53	<=23.98	Pass
			13	21.27	0.37	21.64	<=23.98	Pass
		25	0	21.14	0.37	21.51	<=23.98	Pass
			6	21.86	0.37	22.23	<=23.98	Pass
			13	21.95	0.37	22.32	<=23.98	Pass
	2355	1	24	21.96	0.37	22.33	<=23.98	Pass
			0	21.17	0.37	21.54	<=23.98	Pass
			6	21.24	0.37	21.61	<=23.98	Pass
		12	13	21.28	0.37	21.65	<=23.98	Pass
			0	21.31	0.37	21.68	<=23.98	Pass
			6	21.86	0.37	22.23	<=23.98	Pass
		25	13	21.95	0.37	22.32	<=23.98	Pass
			0	21.17	0.37	21.54	<=23.98	Pass
			6	21.24	0.37	21.61	<=23.98	Pass
	2357.5	1	13	21.28	0.37	21.65	<=23.98	Pass
			0	21.31	0.37	21.68	<=23.98	Pass
			6	21.86	0.37	22.23	<=23.98	Pass
		12	13	21.95	0.37	22.32	<=23.98	Pass
			0	21.17	0.37	21.54	<=23.98	Pass
			6	21.24	0.37	21.61	<=23.98	Pass
25		13	21.28	0.37	21.65	<=23.98	Pass	
		0	21.31	0.37	21.68	<=23.98	Pass	
		6	21.86	0.37	22.23	<=23.98	Pass	
16QAM	2352.5	1	0	21.20	0.37	21.57	<=23.98	Pass
			13	21.45	0.37	21.82	<=23.98	Pass
			24	21.17	0.37	21.54	<=23.98	Pass
		12	0	20.25	0.37	20.62	<=23.98	Pass
			6	20.38	0.37	20.75	<=23.98	Pass
			13	20.26	0.37	20.63	<=23.98	Pass
		25	0	20.13	0.37	20.50	<=23.98	Pass
			6	21.14	0.37	21.51	<=23.98	Pass
			13	21.31	0.37	21.68	<=23.98	Pass
	2355	1	24	21.23	0.37	21.60	<=23.98	Pass
			0	20.24	0.37	20.61	<=23.98	Pass
			6	20.42	0.37	20.79	<=23.98	Pass
		12	13	20.29	0.37	20.66	<=23.98	Pass
			0	20.35	0.37	20.72	<=23.98	Pass
			6	21.14	0.37	21.51	<=23.98	Pass
		25	13	21.31	0.37	21.68	<=23.98	Pass
			0	20.24	0.37	20.61	<=23.98	Pass
			6	20.42	0.37	20.79	<=23.98	Pass
	2357.5	1	13	21.31	0.37	21.68	<=23.98	Pass
			0	21.48	0.37	21.85	<=23.98	Pass
			24	21.31	0.37	21.68	<=23.98	Pass
		12	0	20.23	0.37	20.60	<=23.98	Pass
			6	20.33	0.37	20.70	<=23.98	Pass
			13	20.35	0.37	20.72	<=23.98	Pass

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64QAM	2352.5	25	0	20.38	0.37	20.75	<=23.98	Pass	
			1	0	19.79	0.37	20.16	<=23.98	Pass
				13	20.26	0.37	20.63	<=23.98	Pass
				24	20.05	0.37	20.42	<=23.98	Pass
		12	0	19.22	0.37	19.59	<=23.98	Pass	
			6	19.24	0.37	19.61	<=23.98	Pass	
			13	19.20	0.37	19.57	<=23.98	Pass	
			25	0	19.12	0.37	19.49	<=23.98	Pass
		2355	1	0	19.86	0.37	20.23	<=23.98	Pass
				13	20.48	0.37	20.85	<=23.98	Pass
				24	19.95	0.37	20.32	<=23.98	Pass
				0	19.11	0.37	19.48	<=23.98	Pass
	12		6	19.37	0.37	19.74	<=23.98	Pass	
			13	19.23	0.37	19.60	<=23.98	Pass	
			25	0	19.13	0.37	19.50	<=23.98	Pass
			2357.5	1	0	20.56	0.37	20.93	<=23.98
	13				20.45	0.37	20.82	<=23.98	Pass
	24				20.10	0.37	20.47	<=23.98	Pass
	12			0	19.18	0.37	19.55	<=23.98	Pass
			6	19.20	0.37	19.57	<=23.98	Pass	
		13	19.30	0.37	19.67	<=23.98	Pass		
	25	0	19.17	0.37	19.54	<=23.98	Pass		

Note1: EIRP=Conducted Power+Antenna Gain

1.2 B40b_10MHz_EIRP

1.2.1 Test Result

Band: 40b / Bandwidth: 10MHz / NTV									
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dbi)	EIRP (dBm)		Verdict	
		Size	Offset			Result	Limit		
QPSK	2355	1	0	22.01	0.37	22.38	<=23.98	Pass	
			25	22.05	0.37	22.42	<=23.98	Pass	
			49	22.02	0.37	22.39	<=23.98	Pass	
		25	0	21.21	0.37	21.58	<=23.98	Pass	
			13	21.40	0.37	21.77	<=23.98	Pass	
			25	21.44	0.37	21.81	<=23.98	Pass	
		50	0	21.36	0.37	21.73	<=23.98	Pass	
		2355	1	0	21.85	0.37	22.22	<=23.98	Pass
				25	21.71	0.37	22.08	<=23.98	Pass
				49	21.60	0.37	21.97	<=23.98	Pass
			25	0	21.28	0.37	21.65	<=23.98	Pass
				13	21.38	0.37	21.75	<=23.98	Pass
	25			21.39	0.37	21.76	<=23.98	Pass	
	50	0	21.38	0.37	21.75	<=23.98	Pass		
	2355	1	0	21.88	0.37	22.25	<=23.98	Pass	
			25	22.00	0.37	22.37	<=23.98	Pass	
			49	21.85	0.37	22.22	<=23.98	Pass	
		25	0	21.31	0.37	21.68	<=23.98	Pass	
			13	21.32	0.37	21.69	<=23.98	Pass	
			25	21.40	0.37	21.77	<=23.98	Pass	
	50	0	21.39	0.37	21.76	<=23.98	Pass		
	16QAM	2355	1	0	21.37	0.37	21.74	<=23.98	Pass



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64QAM	2355	25	25	21.66	0.37	22.03	<=23.98	Pass		
			49	21.26	0.37	21.63	<=23.98	Pass		
			0	20.40	0.37	20.77	<=23.98	Pass		
		50	1	13	20.32	0.37	20.69	<=23.98	Pass	
				25	20.49	0.37	20.86	<=23.98	Pass	
				0	20.44	0.37	20.81	<=23.98	Pass	
		2355	1	0	21.38	0.37	21.75	<=23.98	Pass	
				25	21.18	0.37	21.55	<=23.98	Pass	
				49	20.91	0.37	21.28	<=23.98	Pass	
			25	0	20.38	0.37	20.75	<=23.98	Pass	
				13	20.35	0.37	20.72	<=23.98	Pass	
				25	20.42	0.37	20.79	<=23.98	Pass	
			50	1	0	20.30	0.37	20.67	<=23.98	Pass
					0	21.13	0.37	21.50	<=23.98	Pass
					25	21.19	0.37	21.56	<=23.98	Pass
	2355	1	49	21.05	0.37	21.42	<=23.98	Pass		
			0	20.25	0.37	20.62	<=23.98	Pass		
			13	20.36	0.37	20.73	<=23.98	Pass		
		25	25	20.40	0.37	20.77	<=23.98	Pass		
			0	20.41	0.37	20.78	<=23.98	Pass		
			0	20.06	0.37	20.43	<=23.98	Pass		
		2355	1	25	20.51	0.37	20.88	<=23.98	Pass	
				49	20.58	0.37	20.95	<=23.98	Pass	
				0	19.23	0.37	19.60	<=23.98	Pass	
	25		13	19.26	0.37	19.63	<=23.98	Pass		
			25	19.36	0.37	19.73	<=23.98	Pass		
			0	19.27	0.37	19.64	<=23.98	Pass		
	2355		1	0	19.90	0.37	20.27	<=23.98	Pass	
				25	20.87	0.37	21.24	<=23.98	Pass	
				49	20.59	0.37	20.96	<=23.98	Pass	
25		0	19.33	0.37	19.70	<=23.98	Pass			
		13	19.38	0.37	19.75	<=23.98	Pass			
		25	19.26	0.37	19.63	<=23.98	Pass			
50		1	0	19.28	0.37	19.65	<=23.98	Pass		
			0	19.91	0.37	20.28	<=23.98	Pass		
			25	20.82	0.37	21.19	<=23.98	Pass		
2355	1	49	19.76	0.37	20.13	<=23.98	Pass			
		0	19.22	0.37	19.59	<=23.98	Pass			
		13	19.26	0.37	19.63	<=23.98	Pass			
	25	25	19.23	0.37	19.60	<=23.98	Pass			
		0	19.28	0.37	19.65	<=23.98	Pass			
		0	19.28	0.37	19.65	<=23.98	Pass			

Note1: EIRP=Conducted Power+Antenna Gain

2. Frequency Stability

2.1 B40b_5MHz

2.1.1 Test Result



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Band: 40b / Bandwidth: 5MHz										
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict	
		Size	Offset				Result	Limit		
QPSK	2352.5	25	0	20	3.23	10.757	0.0046	-2.5 to 2.5	Pass	
					3.80	10.500	0.0045	-2.5 to 2.5	Pass	
					4.37	-0.143	-0.0001	-2.5 to 2.5	Pass	
				-30	3.80	10.200	0.0043	-2.5 to 2.5	Pass	
					-20	3.80	11.044	0.0047	-2.5 to 2.5	Pass
						-10	3.80	9.227	0.0039	-2.5 to 2.5
				0	3.80	1.216	0.0005	-2.5 to 2.5	Pass	
					10	3.80	3.047	0.0013	-2.5 to 2.5	Pass
				30	3.80	1.173	0.0005	-2.5 to 2.5	Pass	
				40	3.80	0.687	0.0003	-2.5 to 2.5	Pass	
	50	3.80	-0.944	-0.0004	-2.5 to 2.5	Pass				
	2355	25	0	20	3.23	2.732	0.0012	-2.5 to 2.5	Pass	
					3.80	-3.347	-0.0014	-2.5 to 2.5	Pass	
					4.37	5.136	0.0022	-2.5 to 2.5	Pass	
				-30	3.80	-4.606	-0.0020	-2.5 to 2.5	Pass	
					-20	3.80	-3.519	-0.0015	-2.5 to 2.5	Pass
						-10	3.80	4.563	0.0019	-2.5 to 2.5
				0	3.80	4.120	0.0017	-2.5 to 2.5	Pass	
					10	3.80	4.506	0.0019	-2.5 to 2.5	Pass
				30	3.80	2.689	0.0011	-2.5 to 2.5	Pass	
				40	3.80	-4.449	-0.0019	-2.5 to 2.5	Pass	
	50	3.80	-3.648	-0.0015	-2.5 to 2.5	Pass				
	2357.5	25	0	20	3.23	-1.245	-0.0005	-2.5 to 2.5	Pass	
					3.80	0.558	0.0002	-2.5 to 2.5	Pass	
					4.37	0.157	0.0001	-2.5 to 2.5	Pass	
				-30	3.80	-1.545	-0.0007	-2.5 to 2.5	Pass	
					-20	3.80	10.099	0.0043	-2.5 to 2.5	Pass
						-10	3.80	9.770	0.0041	-2.5 to 2.5
				0	3.80	-1.345	-0.0006	-2.5 to 2.5	Pass	
					10	3.80	6.838	0.0029	-2.5 to 2.5	Pass
30				3.80	-2.861	-0.0012	-2.5 to 2.5	Pass		
40				3.80	11.444	0.0049	-2.5 to 2.5	Pass		
50	3.80	9.127	0.0039	-2.5 to 2.5	Pass					
16QAM	2352.5	25	0	20	3.23	9.828	0.0042	-2.5 to 2.5	Pass	
					3.80	2.904	0.0012	-2.5 to 2.5	Pass	
					4.37	2.017	0.0009	-2.5 to 2.5	Pass	
				-30	3.80	-0.172	-0.0001	-2.5 to 2.5	Pass	
					-20	3.80	11.044	0.0047	-2.5 to 2.5	Pass
						-10	3.80	10.057	0.0043	-2.5 to 2.5
				0	3.80	0.701	0.0003	-2.5 to 2.5	Pass	
					10	3.80	2.203	0.0009	-2.5 to 2.5	Pass
				30	3.80	11.415	0.0049	-2.5 to 2.5	Pass	
				40	3.80	9.041	0.0038	-2.5 to 2.5	Pass	
	50	3.80	10.886	0.0046	-2.5 to 2.5	Pass				
	2355	25	0	20	3.23	5.693	0.0024	-2.5 to 2.5	Pass	
					3.80	4.463	0.0019	-2.5 to 2.5	Pass	
					4.37	6.509	0.0028	-2.5 to 2.5	Pass	
				-30	3.80	4.005	0.0017	-2.5 to 2.5	Pass	
					-20	3.80	-4.663	-0.0020	-2.5 to 2.5	Pass
						-10	3.80	-4.420	-0.0019	-2.5 to 2.5
				0	3.80	-4.663	-0.0020	-2.5 to 2.5	Pass	

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				10	3.80	-5.064	-0.0022	-2.5 to 2.5	Pass
				30	3.80	-3.376	-0.0014	-2.5 to 2.5	Pass
				40	3.80	2.532	0.0011	-2.5 to 2.5	Pass
				50	3.80	5.951	0.0025	-2.5 to 2.5	Pass
				20	3.23	10.772	0.0046	-2.5 to 2.5	Pass
	2357.5	25	0	20	3.80	9.270	0.0039	-2.5 to 2.5	Pass
				4.37	1.030	0.0004	-2.5 to 2.5	Pass	
				-30	3.80	9.227	0.0039	-2.5 to 2.5	Pass
				-20	3.80	0.587	0.0002	-2.5 to 2.5	Pass
				-10	3.80	8.812	0.0037	-2.5 to 2.5	Pass
				0	3.80	-1.144	-0.0005	-2.5 to 2.5	Pass
				10	3.80	10.042	0.0043	-2.5 to 2.5	Pass
				30	3.80	-2.103	-0.0009	-2.5 to 2.5	Pass
				40	3.80	9.398	0.0040	-2.5 to 2.5	Pass
				50	3.80	1.473	0.0006	-2.5 to 2.5	Pass
64QAM	2352.5	25	0	20	3.23	0.143	0.0001	-2.5 to 2.5	Pass
				3.80	-5.293	-0.0022	-2.5 to 2.5	Pass	
				4.37	-9.141	-0.0039	-2.5 to 2.5	Pass	
				-30	3.80	-9.570	-0.0041	-2.5 to 2.5	Pass
				-20	3.80	-15.993	-0.0068	-2.5 to 2.5	Pass
				-10	3.80	-15.550	-0.0066	-2.5 to 2.5	Pass
				0	3.80	-19.283	-0.0082	-2.5 to 2.5	Pass
				10	3.80	-21.701	-0.0092	-2.5 to 2.5	Pass
				30	3.80	-27.280	-0.0116	-2.5 to 2.5	Pass
				40	3.80	-30.384	-0.0129	-2.5 to 2.5	Pass
	50	3.80	-31.958	-0.0136	-2.5 to 2.5	Pass			
	2355	25	0	20	3.23	4.678	0.0020	-2.5 to 2.5	Pass
				3.80	-2.818	-0.0012	-2.5 to 2.5	Pass	
				4.37	-13.862	-0.0059	-2.5 to 2.5	Pass	
				-30	3.80	-18.997	-0.0081	-2.5 to 2.5	Pass
				-20	3.80	-34.990	-0.0149	-2.5 to 2.5	Pass
				-10	3.80	-39.039	-0.0166	-2.5 to 2.5	Pass
				0	3.80	-48.895	-0.0208	-2.5 to 2.5	Pass
				10	3.80	-47.193	-0.0200	-2.5 to 2.5	Pass
				30	3.80	-53.415	-0.0227	-2.5 to 2.5	Pass
				40	3.80	-56.305	-0.0239	-2.5 to 2.5	Pass
	50	3.80	-55.575	-0.0236	-2.5 to 2.5	Pass			
	2357.5	25	0	20	3.23	0.629	0.0003	-2.5 to 2.5	Pass
				3.80	-0.830	-0.0004	-2.5 to 2.5	Pass	
				4.37	9.842	0.0042	-2.5 to 2.5	Pass	
-30				3.80	9.813	0.0042	-2.5 to 2.5	Pass	
-20				3.80	10.373	0.0050	-2.5 to 2.5	Pass	
-10				3.80	8.354	0.0035	-2.5 to 2.5	Pass	
0				3.80	10.672	0.0045	-2.5 to 2.5	Pass	
10				3.80	-13.132	-0.0056	-2.5 to 2.5	Pass	
30				3.80	-9.027	-0.0038	-2.5 to 2.5	Pass	
40				3.80	-7.768	-0.0033	-2.5 to 2.5	Pass	
50	3.80	-7.596	-0.0032	-2.5 to 2.5	Pass				

2.2 B40b_10MHz

2.2.1 Test Result



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Band: 40b / Bandwidth: 10MHz										
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict	
		Size	Offset				Result	Limit		
QPSK	2355	50	0	20	3.23	-4.263	-0.0018	-2.5 to 2.5	Pass	
					3.80	-3.905	-0.0017	-2.5 to 2.5	Pass	
					4.37	-4.592	-0.0019	-2.5 to 2.5	Pass	
				-30	3.80	5.894	0.0025	-2.5 to 2.5	Pass	
					-20	3.80	-6.037	-0.0026	-2.5 to 2.5	Pass
						-10	3.80	-5.007	-0.0021	-2.5 to 2.5
				0	3.80	-4.377	-0.0019	-2.5 to 2.5	Pass	
					10	3.80	3.977	0.0017	-2.5 to 2.5	Pass
				30	3.80	-4.234	-0.0018	-2.5 to 2.5	Pass	
				40	3.80	-4.506	-0.0019	-2.5 to 2.5	Pass	
				50	3.80	4.835	0.0021	-2.5 to 2.5	Pass	
				2355	50	0	20	3.23	1.974	0.0008
	3.80	-3.147	-0.0013					-2.5 to 2.5	Pass	
	4.37	5.708	0.0024					-2.5 to 2.5	Pass	
	-30	3.80	4.950				0.0021	-2.5 to 2.5	Pass	
		-20	3.80				3.676	0.0016	-2.5 to 2.5	Pass
			-10				3.80	6.123	0.0026	-2.5 to 2.5
	0	3.80	4.134				0.0018	-2.5 to 2.5	Pass	
		10	3.80				-3.319	-0.0014	-2.5 to 2.5	Pass
	30	3.80	3.819				0.0016	-2.5 to 2.5	Pass	
	40	3.80	-2.446				-0.0010	-2.5 to 2.5	Pass	
	50	3.80	4.935				0.0021	-2.5 to 2.5	Pass	
	2355	50	0				20	3.23	-2.017	-0.0009
				3.80	-5.708	-0.0024		-2.5 to 2.5	Pass	
4.37				5.250	0.0022	-2.5 to 2.5		Pass		
-30				3.80	-2.689	-0.0011	-2.5 to 2.5	Pass		
				-20	3.80	4.349	0.0018	-2.5 to 2.5	Pass	
					-10	3.80	-2.732	-0.0012	-2.5 to 2.5	Pass
0				3.80	5.507	0.0023	-2.5 to 2.5	Pass		
				10	3.80	6.065	0.0026	-2.5 to 2.5	Pass	
30				3.80	5.722	0.0024	-2.5 to 2.5	Pass		
40				3.80	-6.380	-0.0027	-2.5 to 2.5	Pass		
50				3.80	5.393	0.0023	-2.5 to 2.5	Pass		
16QAM				2355	50	0	20	3.23	3.505	0.0015
	3.80	-4.292	-0.0018					-2.5 to 2.5	Pass	
	4.37	-7.238	-0.0031					-2.5 to 2.5	Pass	
	-30	3.80	-5.665				-0.0024	-2.5 to 2.5	Pass	
		-20	3.80				-2.117	-0.0009	-2.5 to 2.5	Pass
			-10				3.80	2.260	0.0010	-2.5 to 2.5
	0	3.80	-5.851				-0.0025	-2.5 to 2.5	Pass	
		10	3.80				4.249	0.0018	-2.5 to 2.5	Pass
	30	3.80	5.836				0.0025	-2.5 to 2.5	Pass	
	40	3.80	5.965				0.0025	-2.5 to 2.5	Pass	
	50	3.80	4.978				0.0021	-2.5 to 2.5	Pass	
	2355	50	0				20	3.23	-4.721	-0.0020
				3.80	3.490	0.0015		-2.5 to 2.5	Pass	
				4.37	-4.892	-0.0021		-2.5 to 2.5	Pass	
				-30	3.80	4.492	0.0019	-2.5 to 2.5	Pass	
					-20	3.80	3.290	0.0014	-2.5 to 2.5	Pass
						-10	3.80	2.575	0.0011	-2.5 to 2.5
				0	3.80	3.119	0.0013	-2.5 to 2.5	Pass	

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				10	3.80	2.904	0.0012	-2.5 to 2.5	Pass	
				30	3.80	-3.419	-0.0015	-2.5 to 2.5	Pass	
				40	3.80	-4.306	-0.0018	-2.5 to 2.5	Pass	
				50	3.80	3.290	0.0014	-2.5 to 2.5	Pass	
				20	3.23	-4.334	-0.0018	-2.5 to 2.5	Pass	
	3.80	-3.362	-0.0014		-2.5 to 2.5	Pass				
	4.37	0.758	0.0003		-2.5 to 2.5	Pass				
	-30	3.80	3.247	0.0014	-2.5 to 2.5	Pass				
	-20	3.80	0.472	0.0002	-2.5 to 2.5	Pass				
	-10	3.80	-5.050	-0.0021	-2.5 to 2.5	Pass				
	0	3.80	-4.921	-0.0021	-2.5 to 2.5	Pass				
	10	3.80	2.875	0.0012	-2.5 to 2.5	Pass				
	30	3.80	-4.592	-0.0019	-2.5 to 2.5	Pass				
	40	3.80	6.323	0.0027	-2.5 to 2.5	Pass				
	50	3.80	-4.363	-0.0019	-2.5 to 2.5	Pass				
	64QAM	2355	50	0	20	3.23	-11.430	-0.0049	-2.5 to 2.5	Pass
						3.80	-4.721	-0.0020	-2.5 to 2.5	Pass
						4.37	-11.930	-0.0051	-2.5 to 2.5	Pass
					-30	3.80	-4.020	-0.0017	-2.5 to 2.5	Pass
-20					3.80	-1.602	-0.0007	-2.5 to 2.5	Pass	
-10					3.80	-12.245	-0.0052	-2.5 to 2.5	Pass	
0					3.80	-5.879	-0.0025	-2.5 to 2.5	Pass	
10					3.80	-8.225	-0.0035	-2.5 to 2.5	Pass	
30					3.80	-2.303	-0.0010	-2.5 to 2.5	Pass	
40		3.80	-10.843	-0.0046	-2.5 to 2.5	Pass				
50		3.80	-8.254	-0.0035	-2.5 to 2.5	Pass				
2355		50	0	20	3.23	-4.063	-0.0017	-2.5 to 2.5	Pass	
					3.80	-9.556	-0.0041	-2.5 to 2.5	Pass	
					4.37	-1.659	-0.0007	-2.5 to 2.5	Pass	
				-30	3.80	-3.648	-0.0015	-2.5 to 2.5	Pass	
				-20	3.80	-4.520	-0.0019	-2.5 to 2.5	Pass	
				-10	3.80	-6.981	-0.0030	-2.5 to 2.5	Pass	
				0	3.80	-7.381	-0.0031	-2.5 to 2.5	Pass	
				10	3.80	-5.550	-0.0024	-2.5 to 2.5	Pass	
	30			3.80	-5.779	-0.0025	-2.5 to 2.5	Pass		
40	3.80	-1.802	-0.0008	-2.5 to 2.5	Pass					
50	3.80	-3.891	-0.0017	-2.5 to 2.5	Pass					
2355	50	0	20	3.23	-8.998	-0.0038	-2.5 to 2.5	Pass		
				3.80	-7.825	-0.0033	-2.5 to 2.5	Pass		
				4.37	-6.208	-0.0026	-2.5 to 2.5	Pass		
			-30	3.80	-8.454	-0.0036	-2.5 to 2.5	Pass		
			-20	3.80	-3.920	-0.0017	-2.5 to 2.5	Pass		
			-10	3.80	-7.725	-0.0033	-2.5 to 2.5	Pass		
			0	3.80	-5.393	-0.0023	-2.5 to 2.5	Pass		
			10	3.80	-2.360	-0.0010	-2.5 to 2.5	Pass		
			30	3.80	-5.822	-0.0025	-2.5 to 2.5	Pass		
40	3.80	-8.125	-0.0035	-2.5 to 2.5	Pass					
50	3.80	-9.027	-0.0038	-2.5 to 2.5	Pass					

3. Modulation Characteristics

3.1 B40b_5MHz



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3.1.1 Test Result

Band: 40b / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2355	25	0	Refer To Test Graph		Pass
16QAM	2355	25	0	Refer To Test Graph		Pass
64QAM	2355	25	0	Refer To Test Graph		Pass



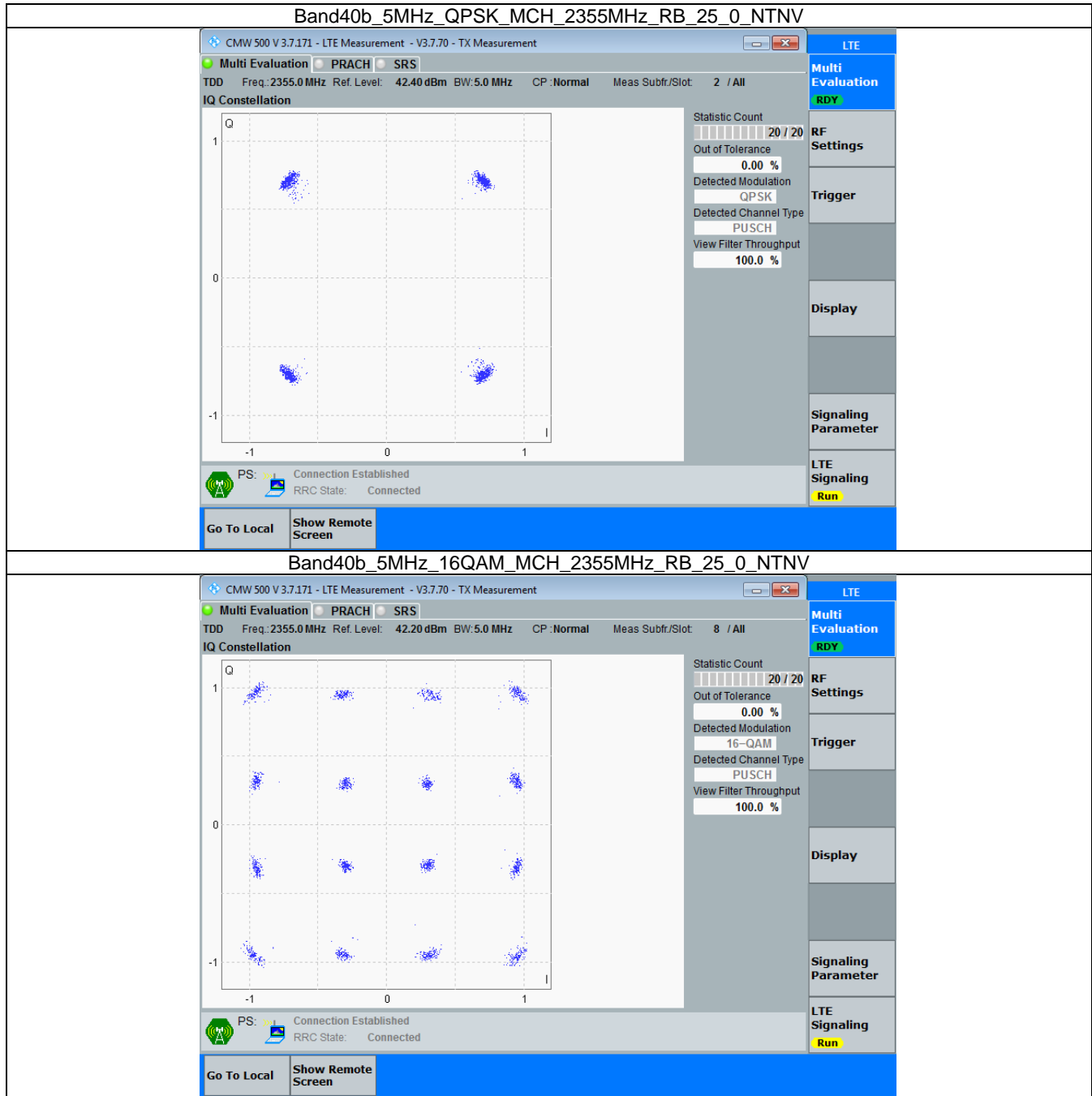
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3.1.2 Test Graph



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Band40b_5MHz_64QAM_MCH_2355MHz_RB_25_0_NTNV

CMW 500 V 3.7.171 - LTE Measurement - V3.7.70 - TX Measurement		LTE
Multi Evaluation <input type="checkbox"/> PRACH <input type="checkbox"/> SRS		Multi Evaluation RDY
TDD Freq: 2355.0 MHz Ref. Level: 42.10 dBm BW: 5.0 MHz CP: Normal Meas Subfr/Slot 7 / All		RF Settings
IQ Constellation		Trigger
		Display
PS: Connection Established RRC State: Connected		Signaling Parameter
Go To Local Show Remote Screen		LTE Signaling Run



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3.2 B40b_10MHz

3.2.1 Test Result

Band: 40b / Bandwidth: 10MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2355	50	0	Refer To Test Graph		Pass
16QAM	2355	50	0	Refer To Test Graph		Pass
64QAM	2355	50	0	Refer To Test Graph		Pass

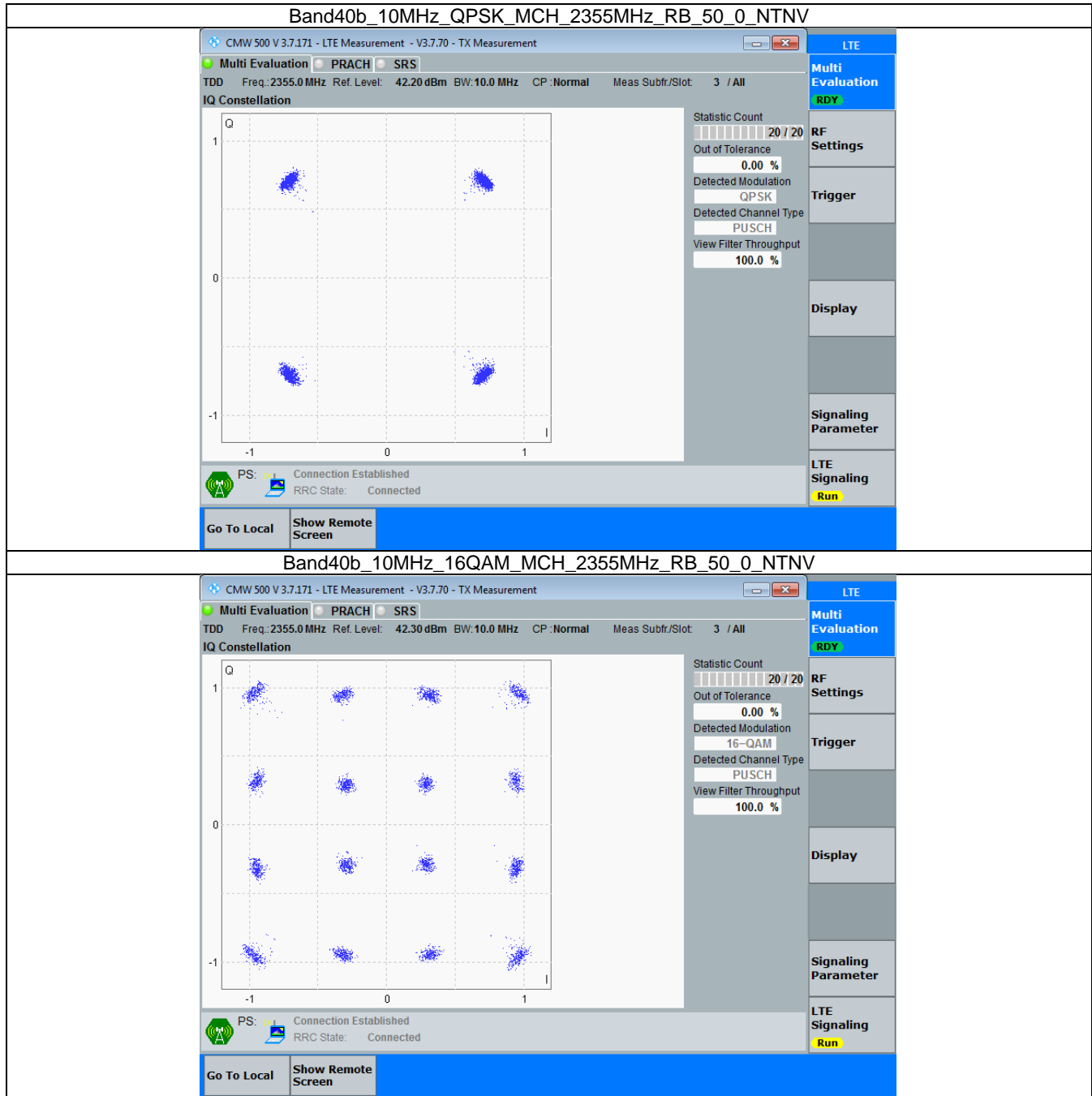


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3.2.2 Test Graph

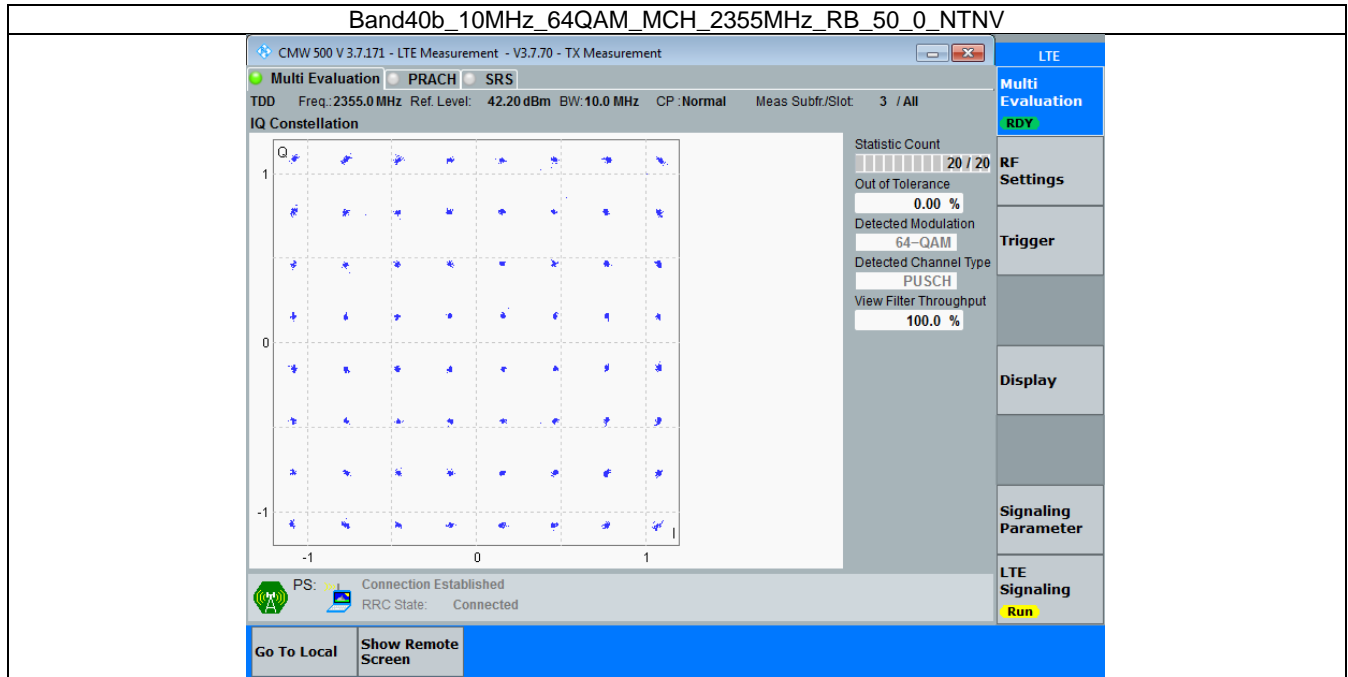


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4. 99% & 26dB Bandwidth

4.1 Band40b_OBW

4.1.1 Test Result

Band: 40b / NTNV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)	Verdict
			Size	Offset	Result	
5	QPSK	2352.5	25	0	4.530	Pass
		2355	25	0	4.525	Pass
		2357.5	25	0	4.539	Pass
	16QAM	2352.5	25	0	4.530	Pass
		2355	25	0	4.577	Pass
		2357.5	25	0	4.537	Pass
	64QAM	2352.5	25	0	4.557	Pass
		2355	25	0	4.531	Pass
		2357.5	25	0	4.552	Pass
10	QPSK	2355	50	0	9.041	Pass
		2355	50	0	9.071	Pass
		2355	50	0	9.047	Pass
	16QAM	2355	50	0	9.036	Pass
		2355	50	0	9.041	Pass
		2355	50	0	9.044	Pass
	64QAM	2355	50	0	9.016	Pass
		2355	50	0	9.071	Pass
		2355	50	0	9.044	Pass

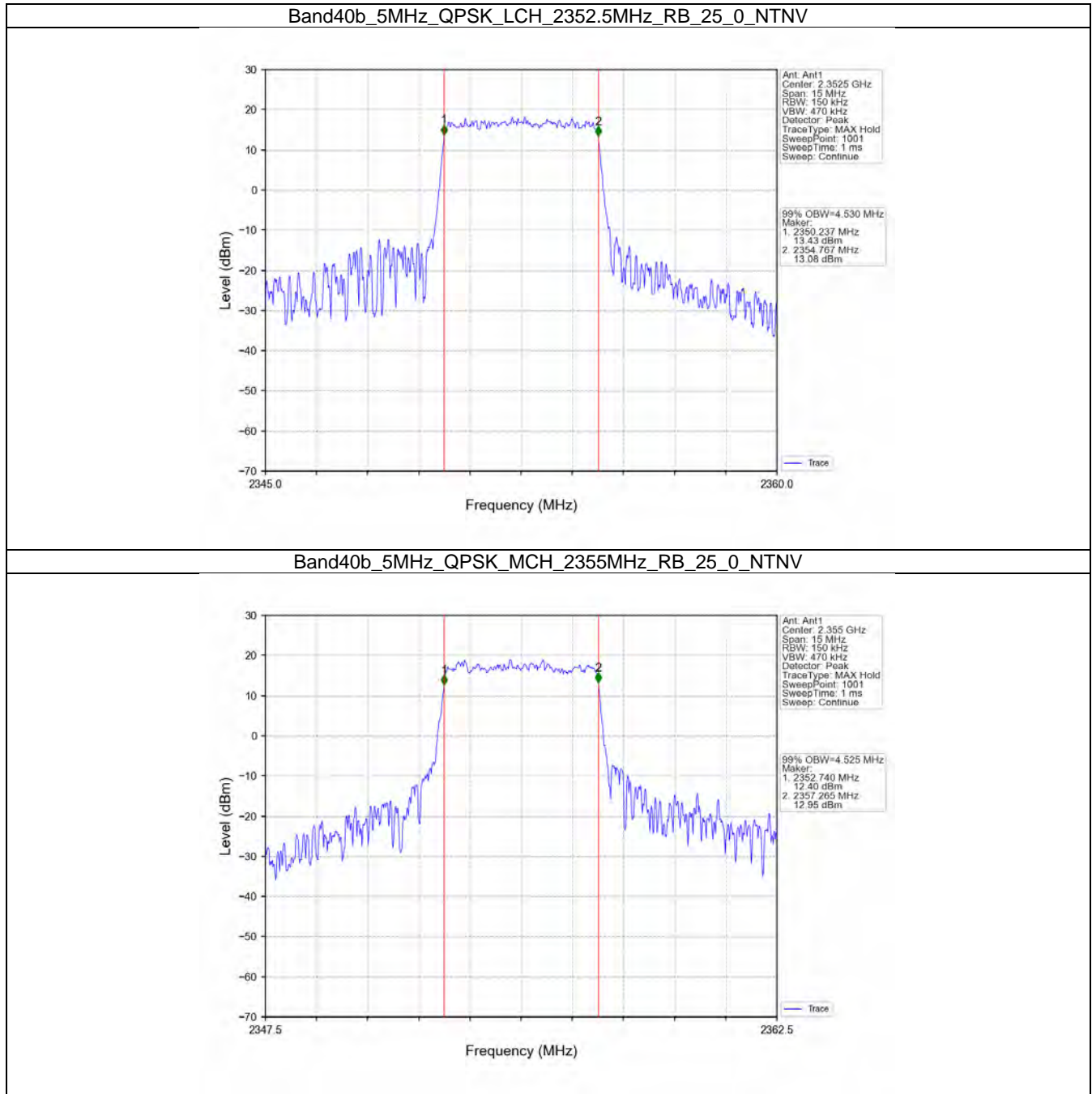


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4.1.2 Test Graph



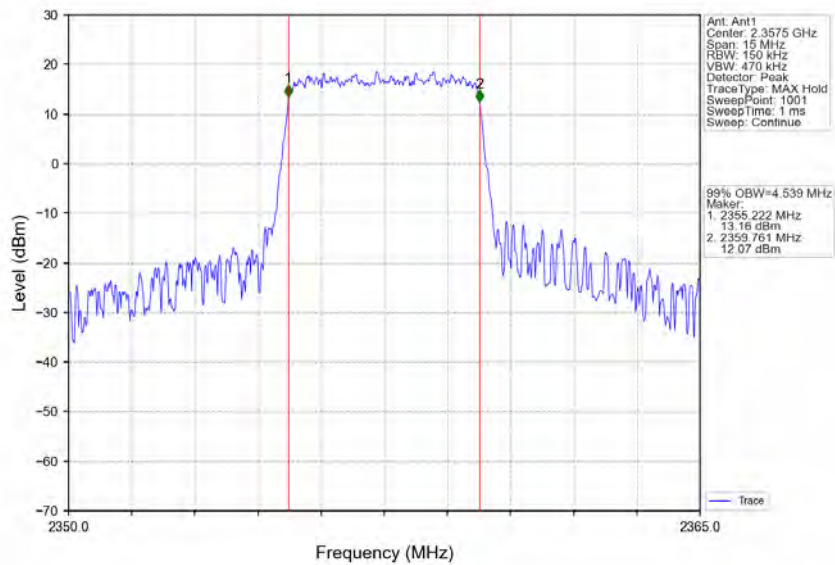
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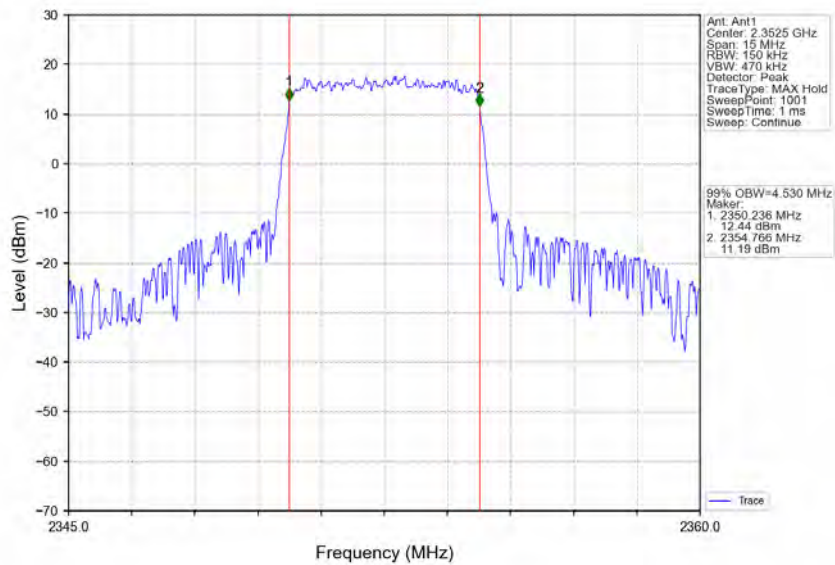
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Band40b_5MHz_QPSK_HCH_2357.5MHz_RB_25_0_NTNV



Band40b_5MHz_16QAM_LCH_2352.5MHz_RB_25_0_NTNV



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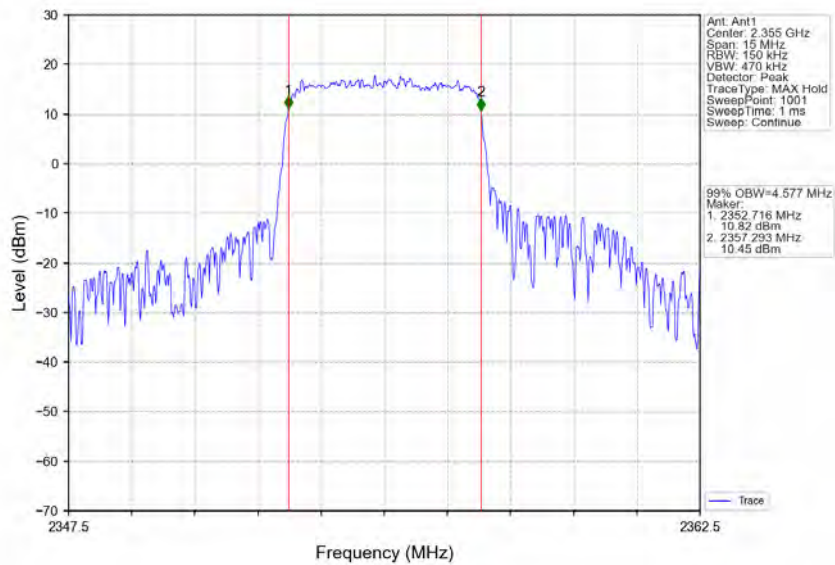
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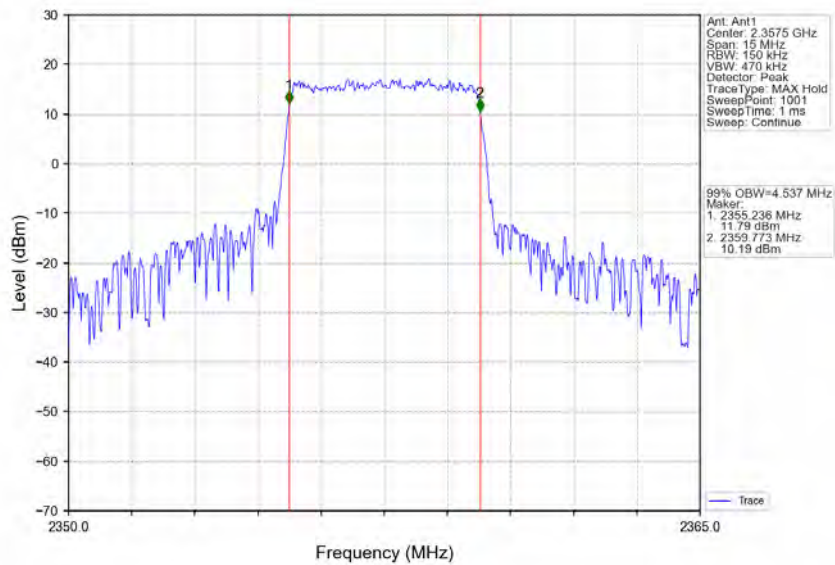
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Band40b_5MHz_16QAM_HCH_2357.5MHz_RB_25_0_NTNV



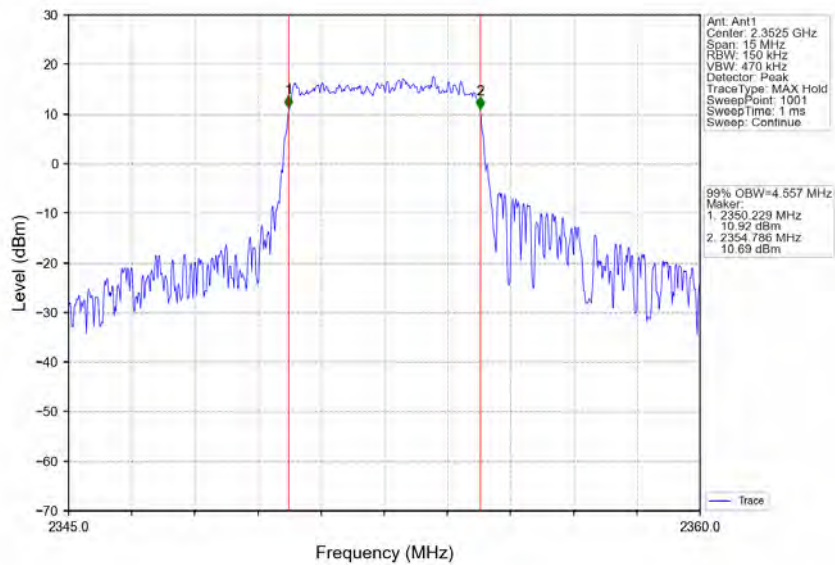
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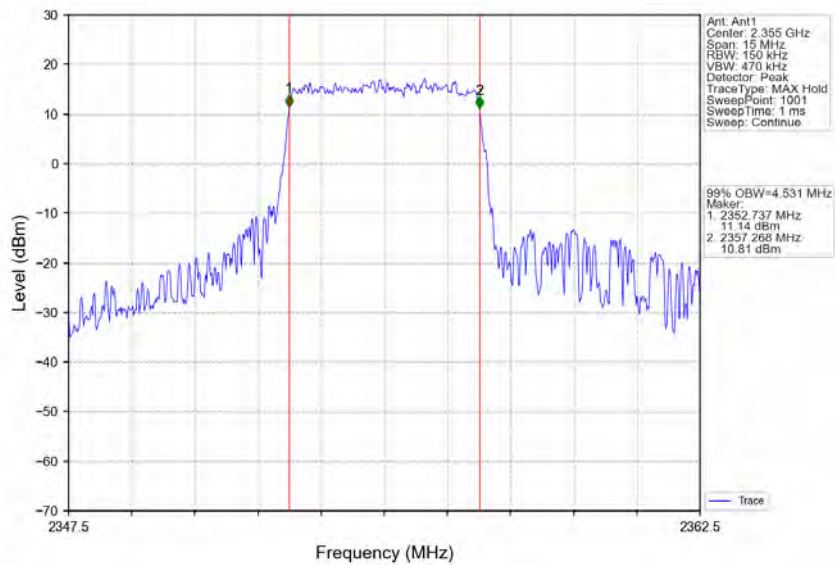
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Band40b_5MHz_64QAM_LCH_2352.5MHz_RB_25_0_NTNV



Band40b_5MHz_64QAM_MCH_2355MHz_RB_25_0_NTNV



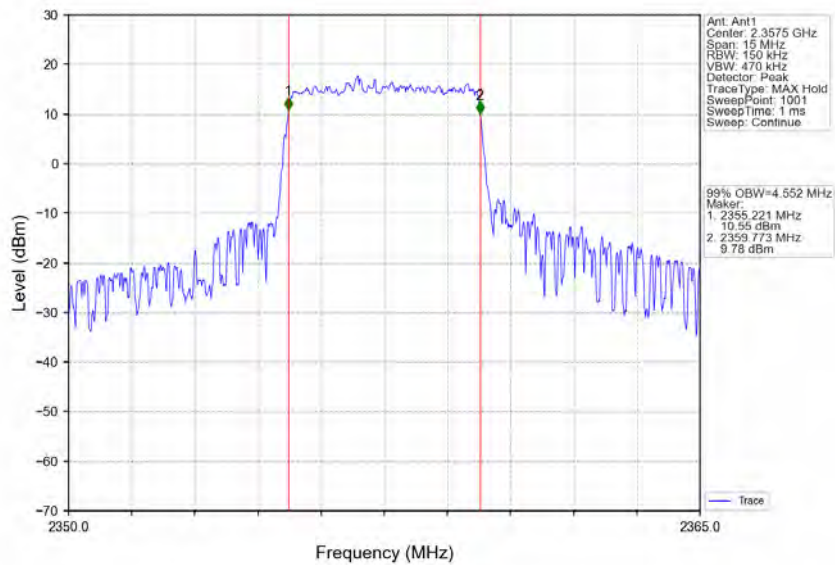
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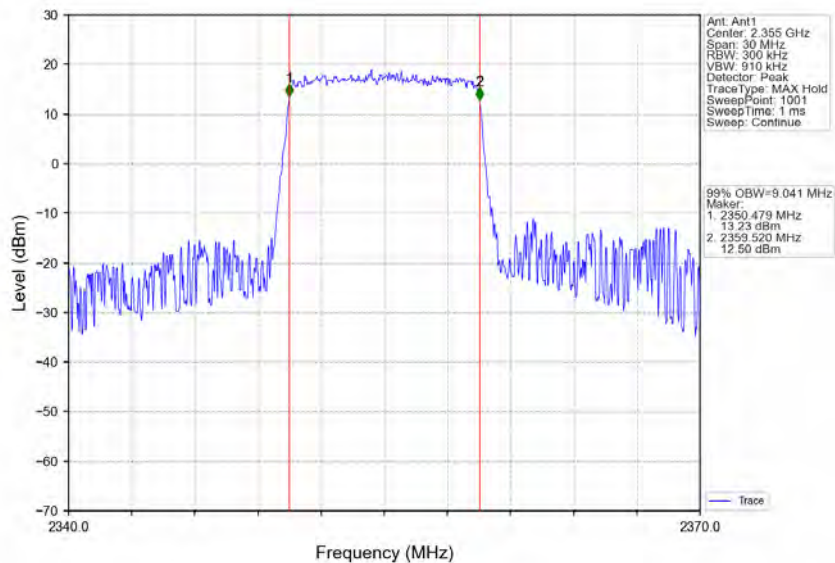
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Band40b_5MHz_64QAM_HCH_2357.5MHz_RB_25_0_NTNV



Band40b_10MHz_QPSK_LCH_2355MHz_RB_50_0_NTNV



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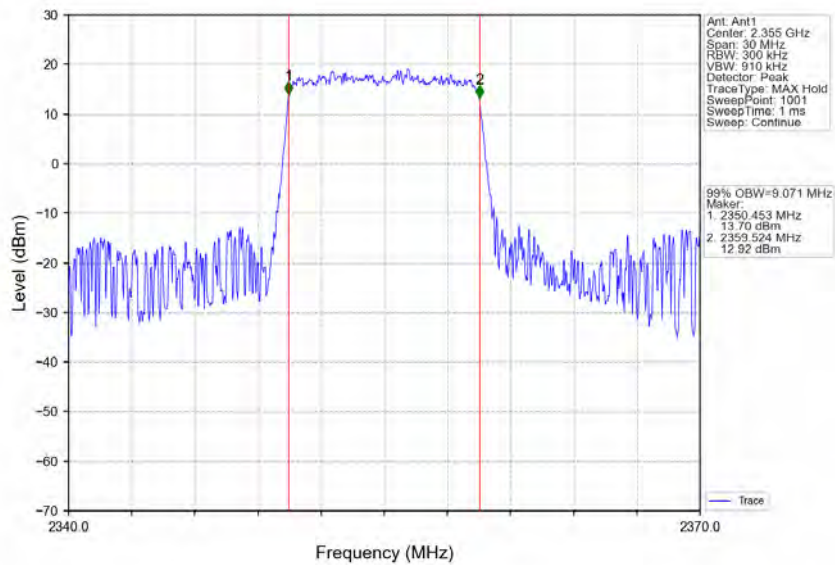
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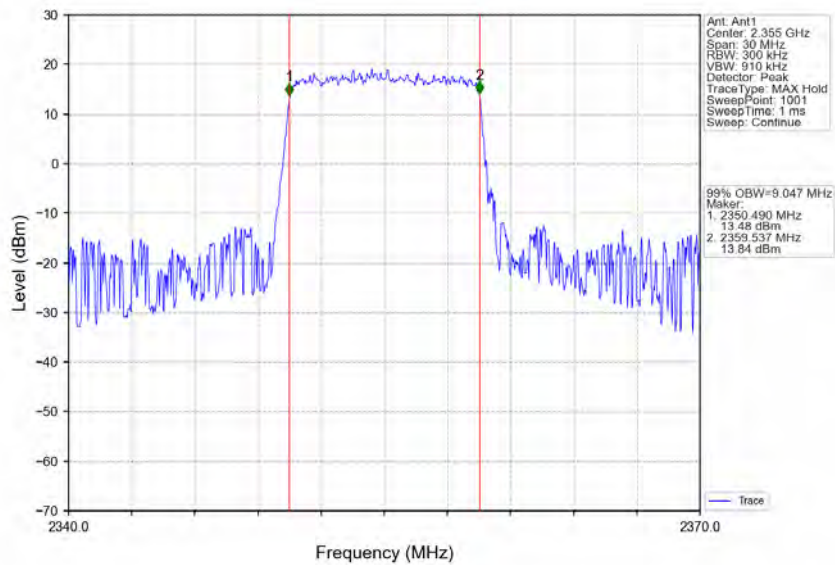
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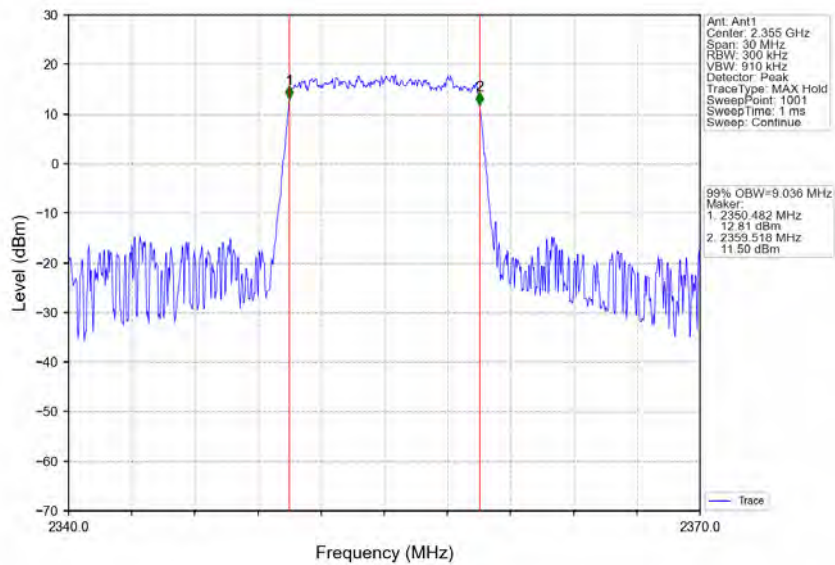
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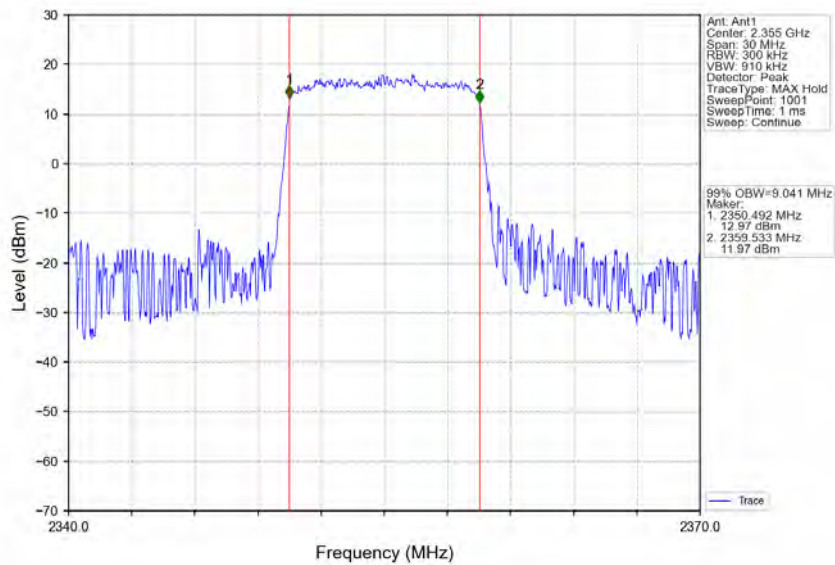
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Band40b_10MHz_16QAM_LCH_2355MHz_RB_50_0_NTNV



Band40b_10MHz_16QAM_MCH_2355MHz_RB_50_0_NTNV



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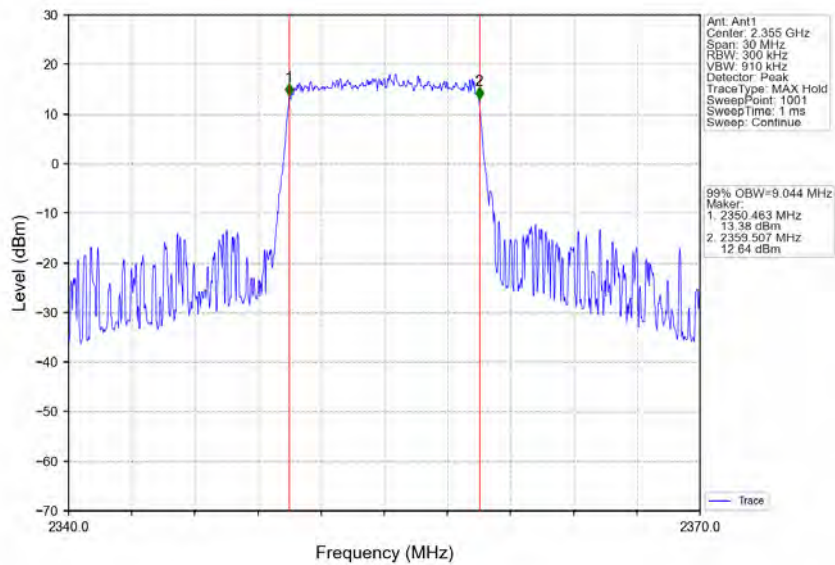
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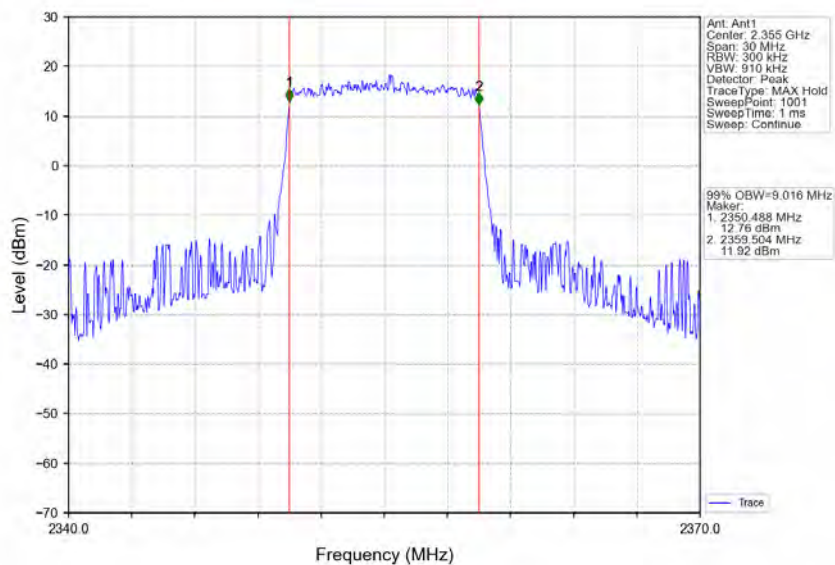
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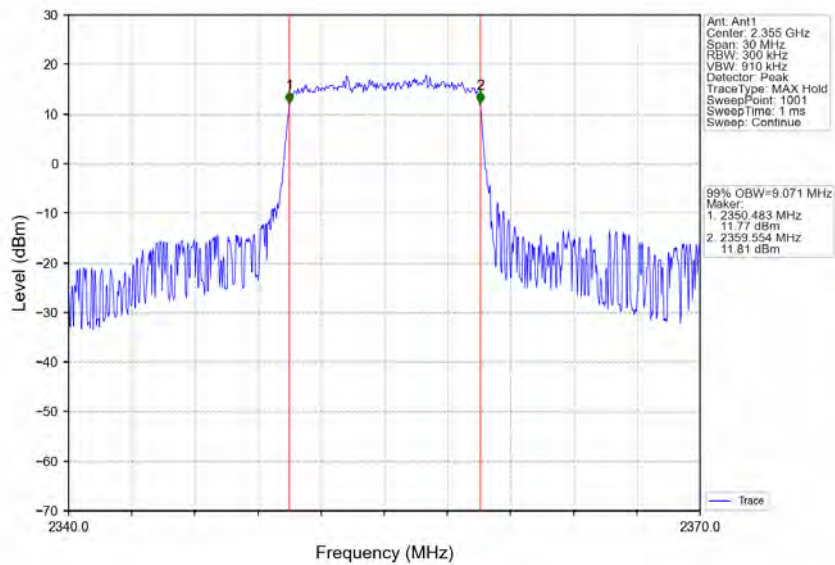
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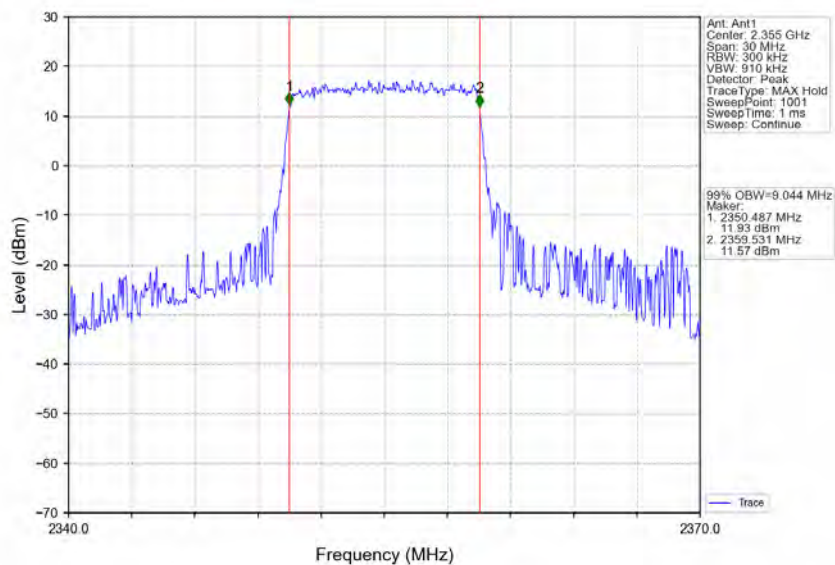
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4.2 Band40b_XDB

4.2.1 Test Result

Band: 40b / NTNV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)	Verdict
			Size	Offset	Result	
5	QPSK	2352.5	25	0	5.035	Pass
		2355	25	0	5.141	Pass
		2357.5	25	0	5.087	Pass
	16QAM	2352.5	25	0	5.094	Pass
		2355	25	0	5.413	Pass
		2357.5	25	0	5.192	Pass
	64QAM	2352.5	25	0	5.991	Pass
		2355	25	0	5.261	Pass
		2357.5	25	0	5.369	Pass
10	QPSK	2355	50	0	10.048	Pass
		2355	50	0	10.096	Pass
		2355	50	0	10.160	Pass
	16QAM	2355	50	0	9.986	Pass
		2355	50	0	10.037	Pass
		2355	50	0	10.178	Pass
	64QAM	2355	50	0	9.969	Pass
		2355	50	0	10.480	Pass
		2355	50	0	10.566	Pass

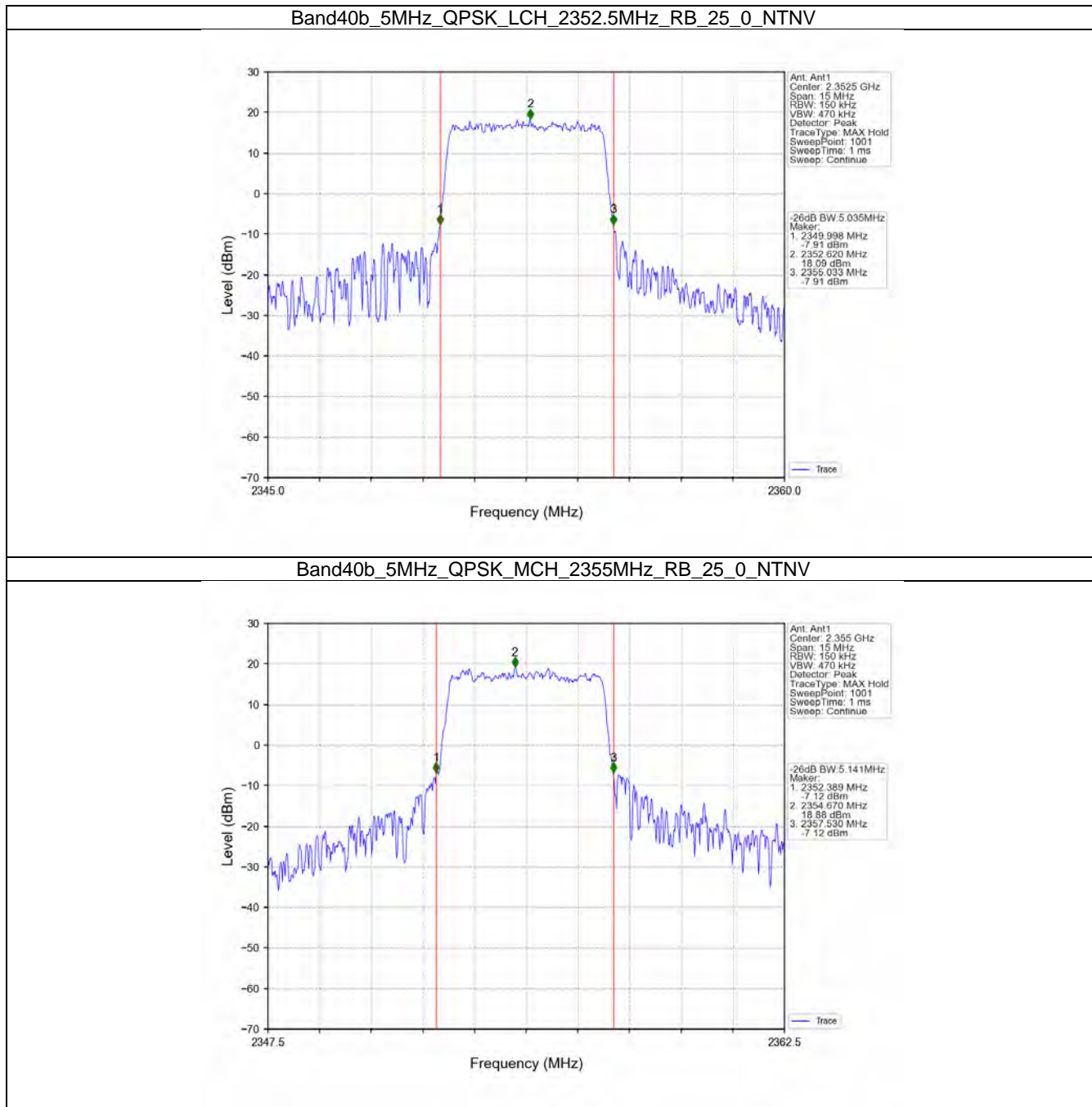


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4.2.2 Test Graph



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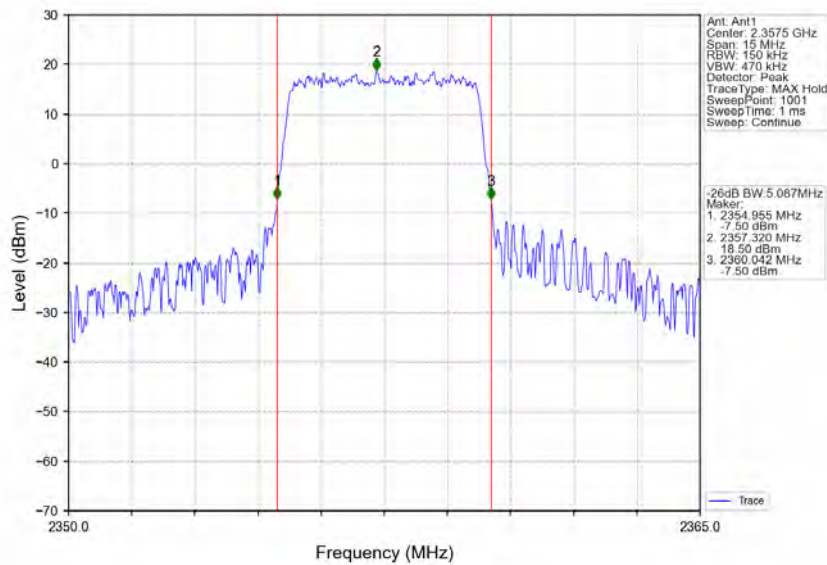
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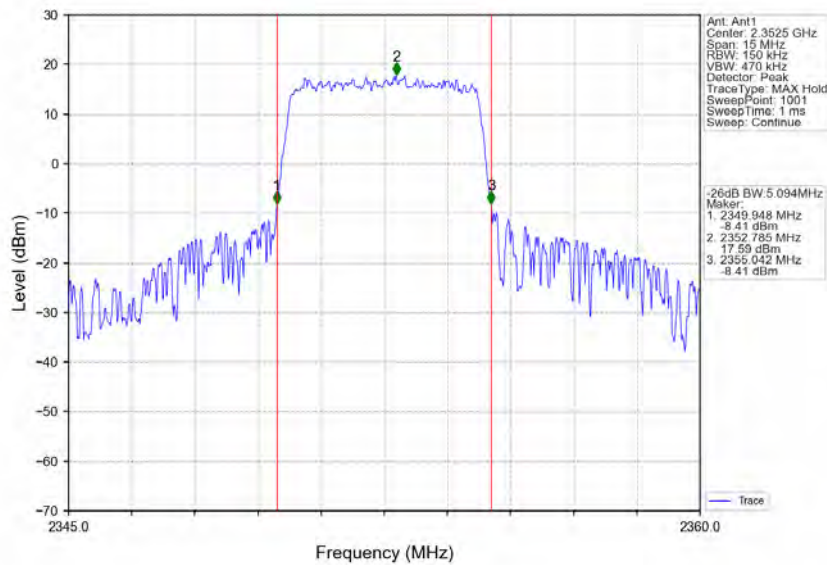
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Band40b_5MHz_16QAM_LCH_2352.5MHz_RB_25_0_NTNV



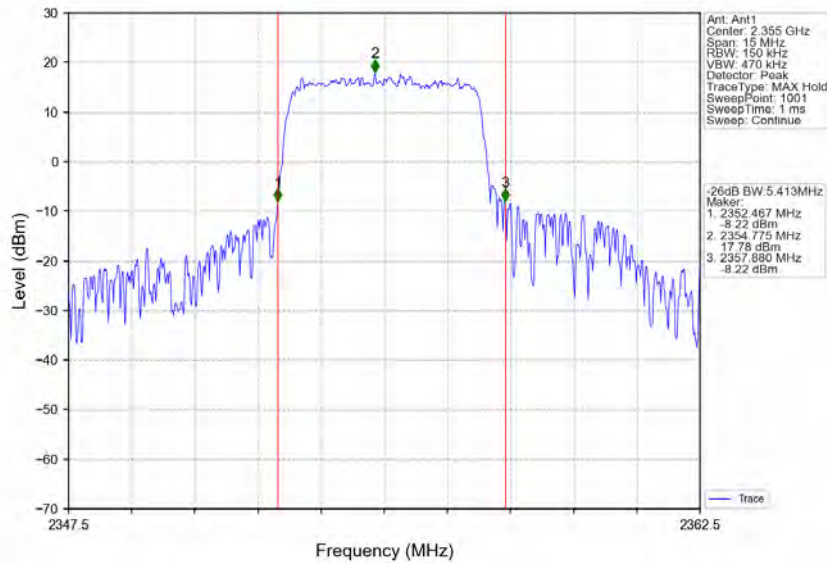
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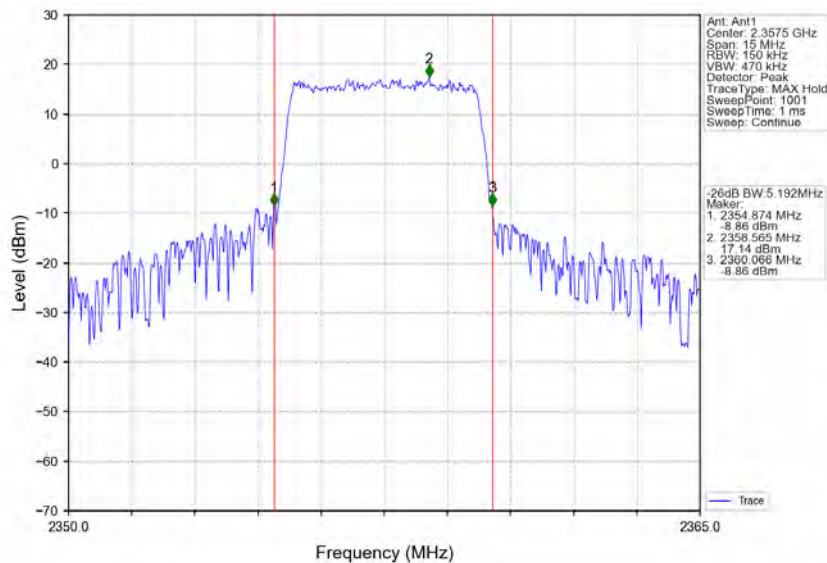
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Band40b_5MHz_16QAM_MCH_2355MHz_RB_25_0_NTNV



Band40b_5MHz_16QAM_HCH_2357.5MHz_RB_25_0_NTNV



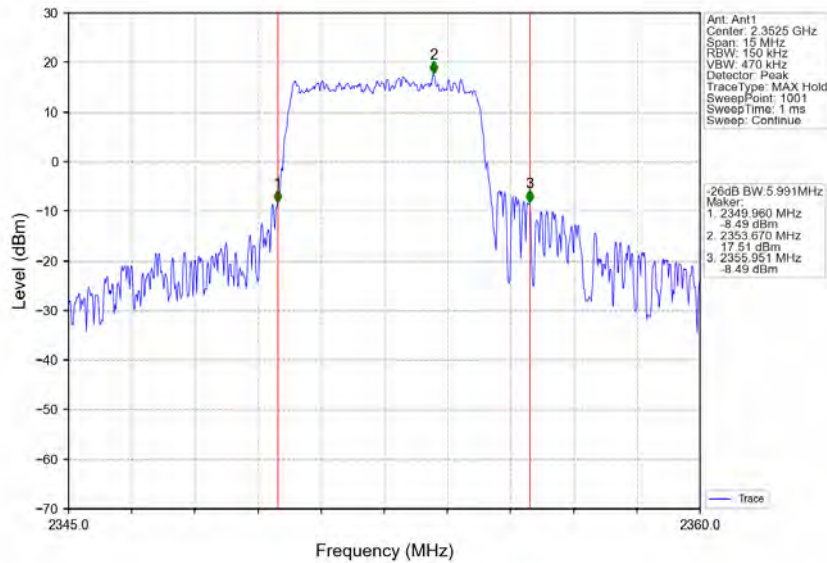
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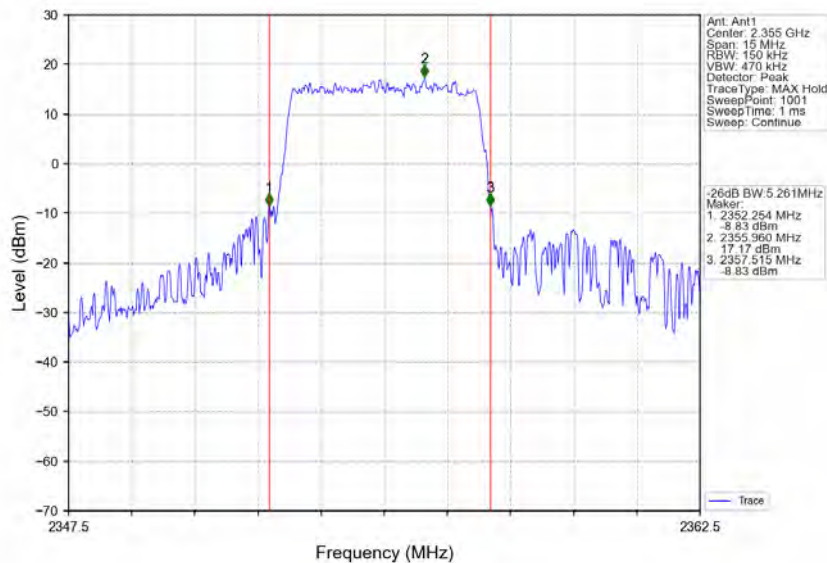
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Band40b_5MHz_64QAM_MCH_2355MHz_RB_25_0_NTNV



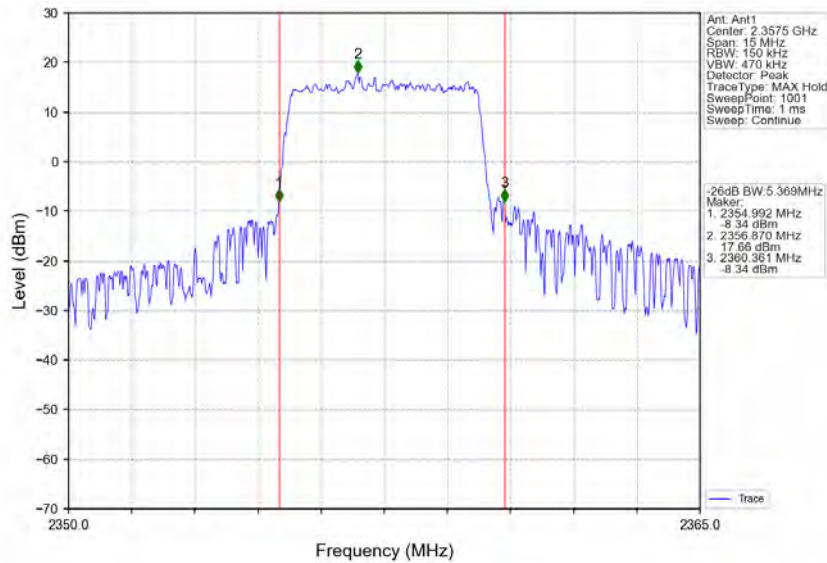
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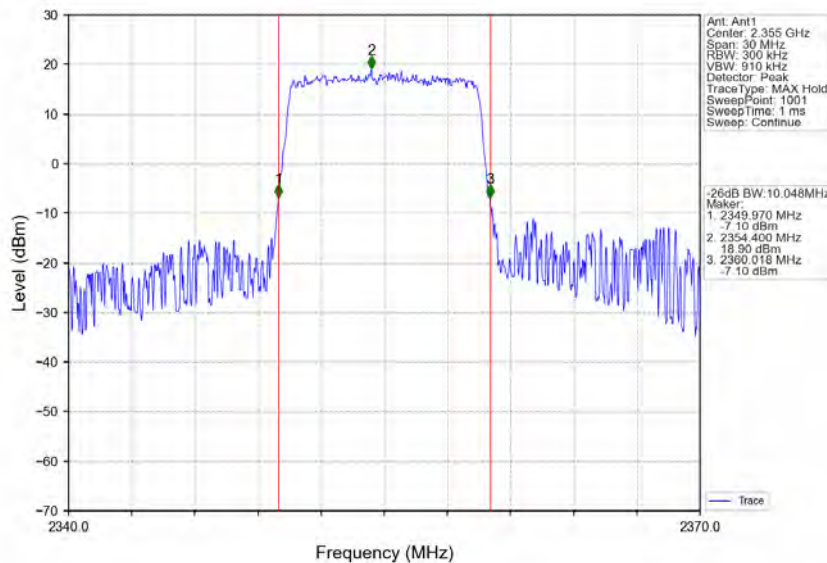
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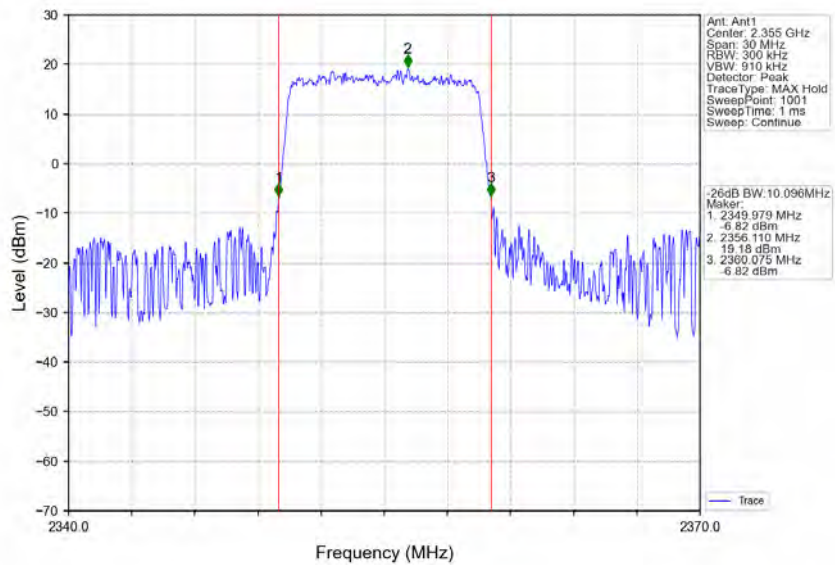
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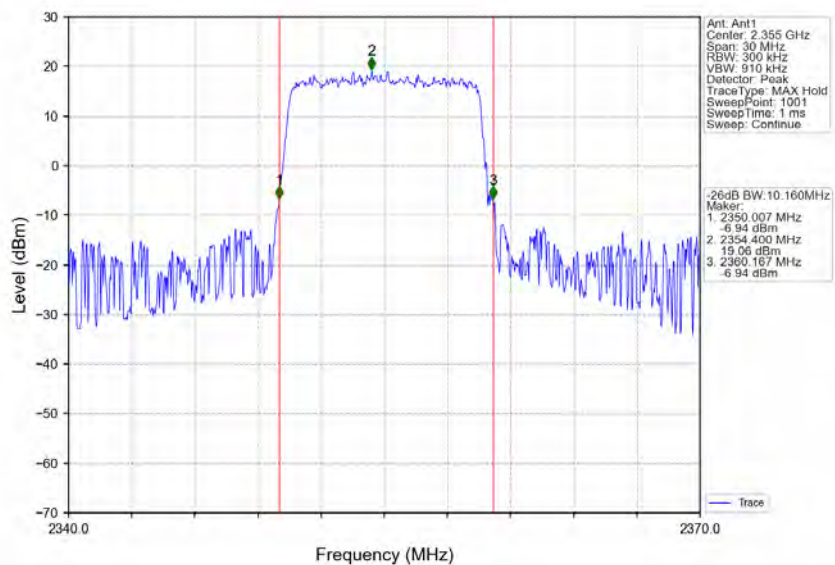
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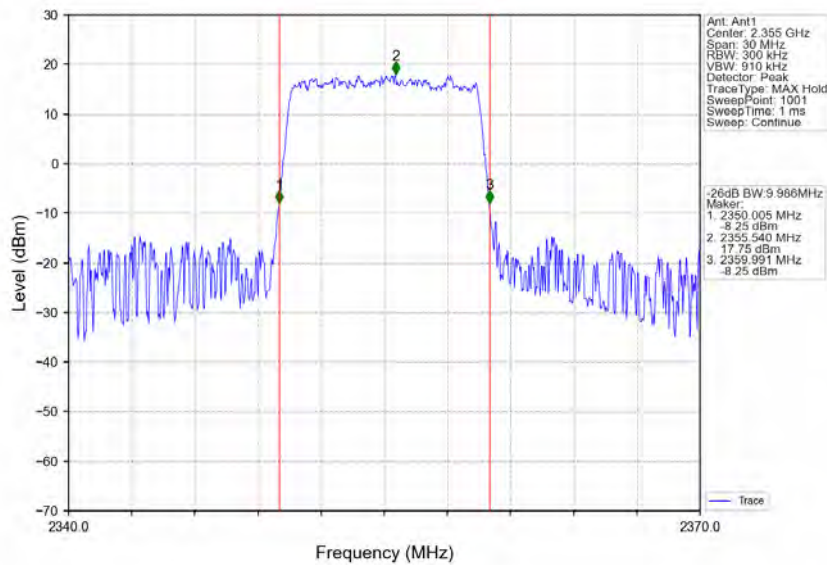
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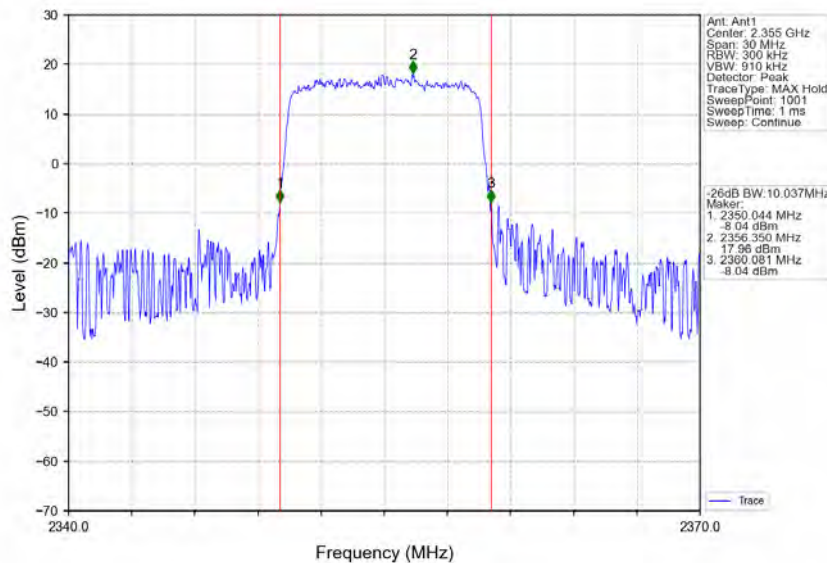
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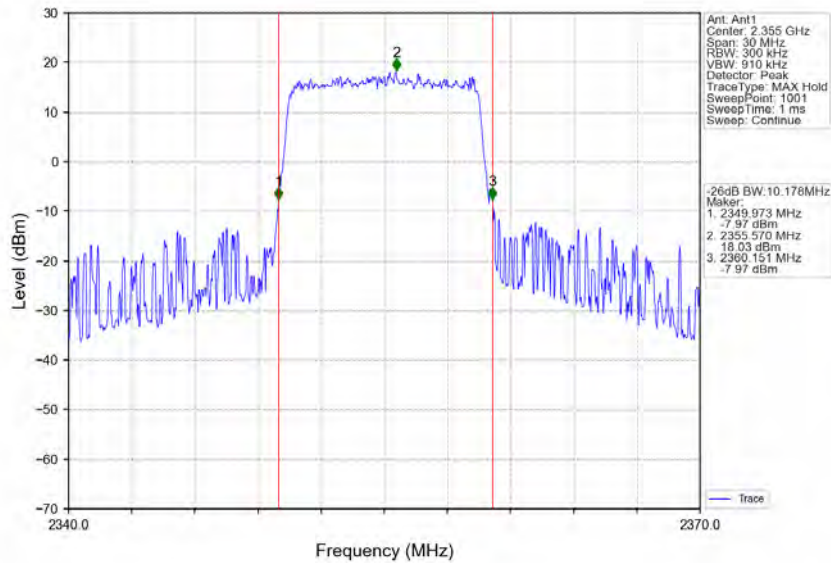
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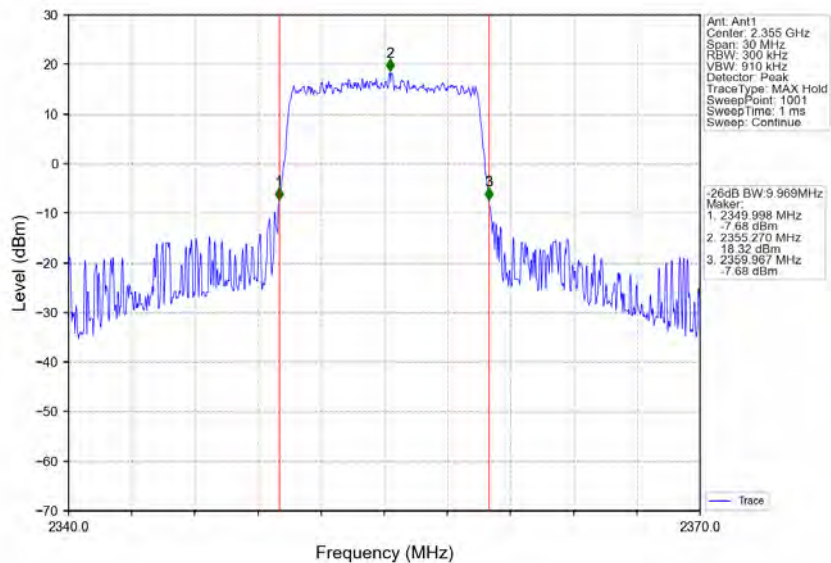
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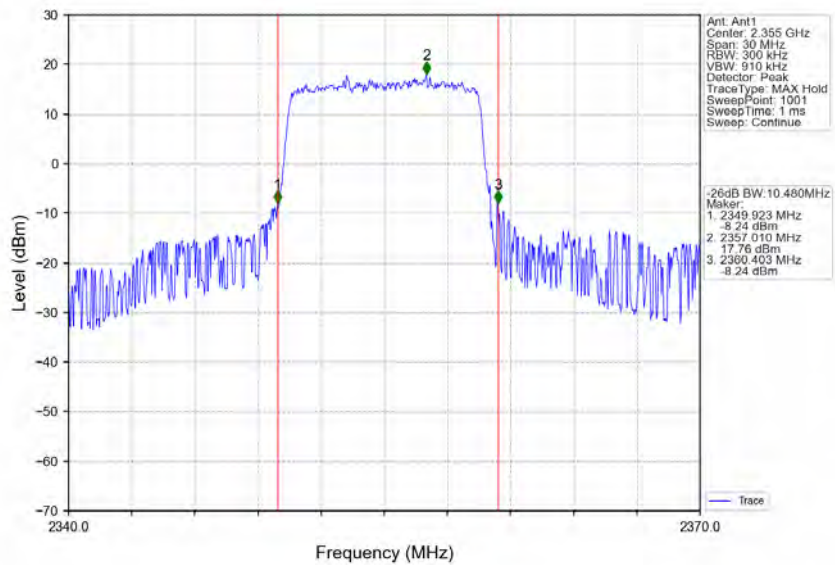
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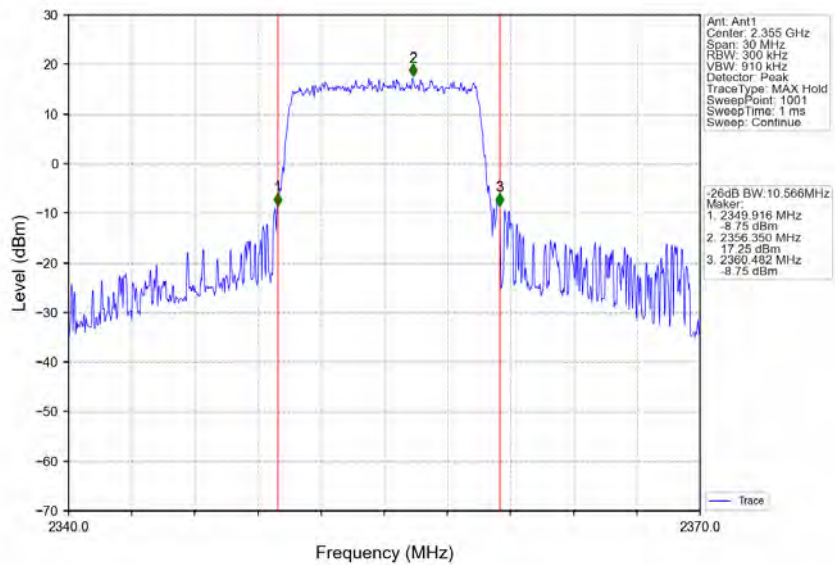
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5. Peak-Average Ratio

5.1 B40b_5MHz

5.1.1 Test Result

Band: 40b / Bandwidth: 5MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2352.5	25	0	7.06	<=13	Pass
	2355	25	0	7.00	<=13	Pass
	2357.5	25	0	7.04	<=13	Pass
16QAM	2352.5	25	0	7.88	<=13	Pass
	2355	25	0	7.81	<=13	Pass
	2357.5	25	0	7.78	<=13	Pass
64QAM	2352.5	25	0	8.69	<=13	Pass
	2355	25	0	8.72	<=13	Pass
	2357.5	25	0	8.61	<=13	Pass



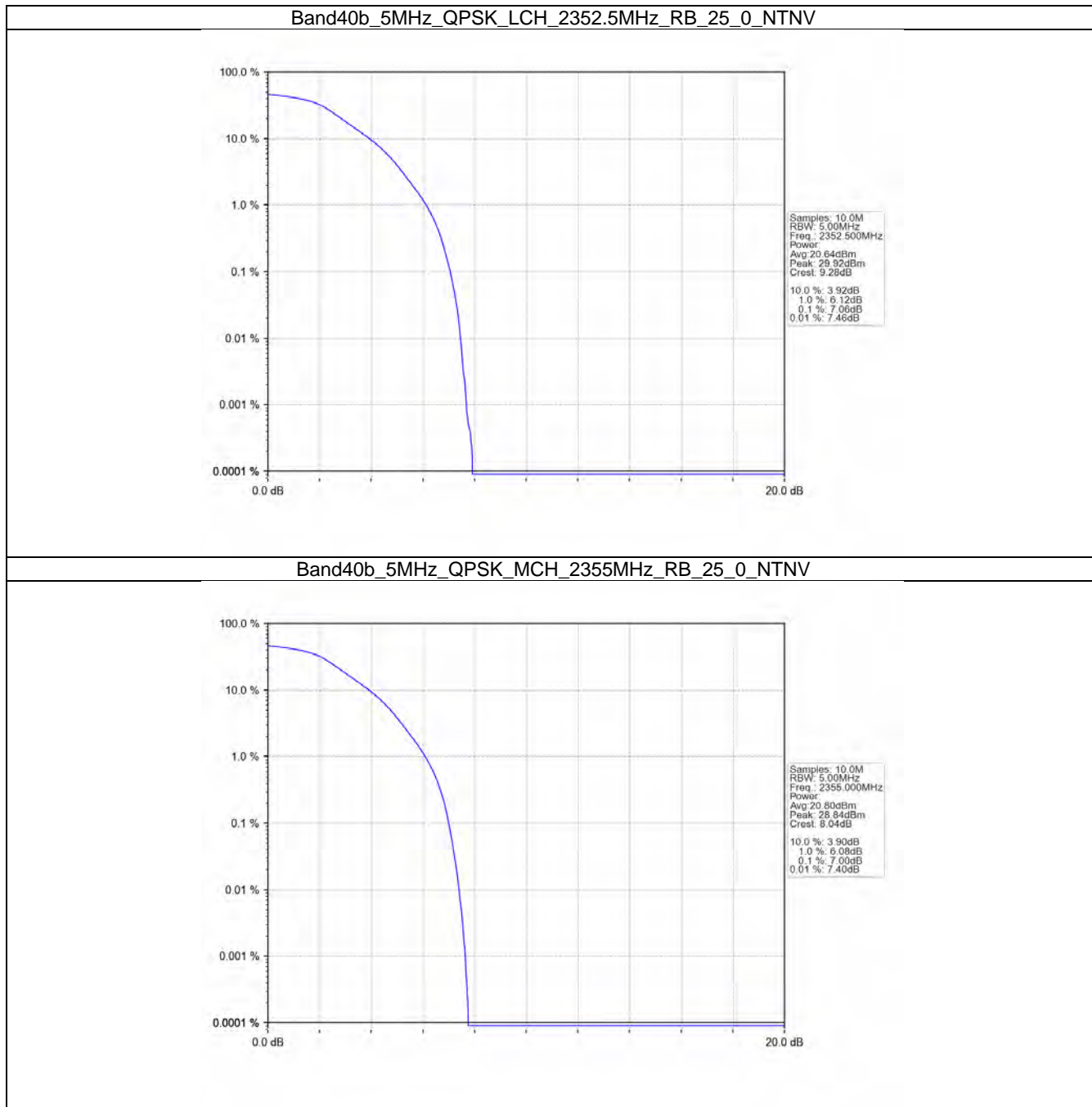
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5.1.2 Test Graph



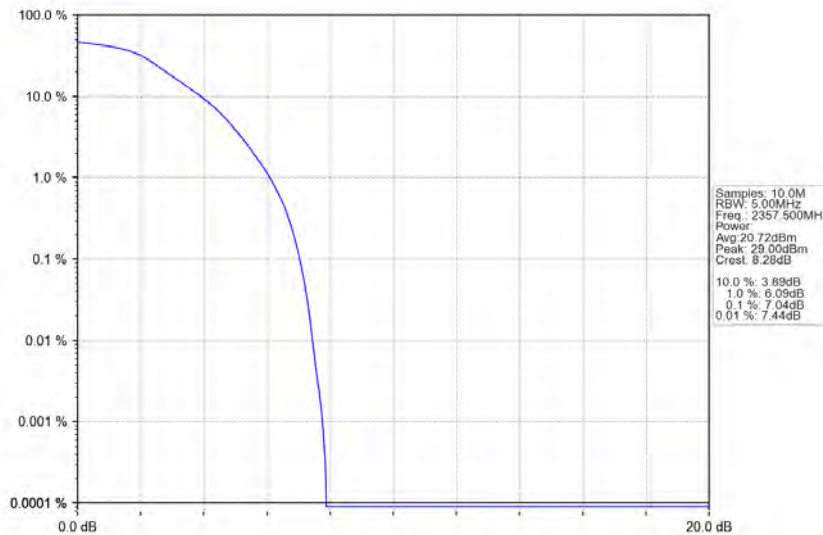
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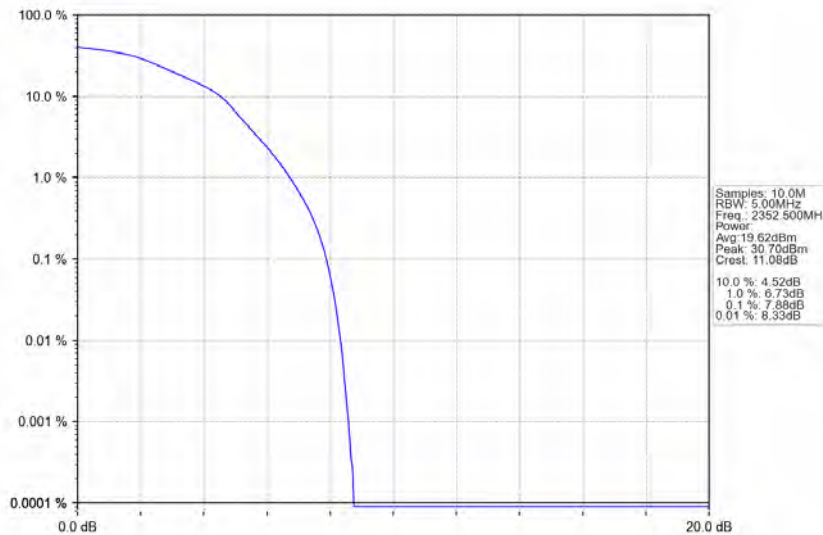
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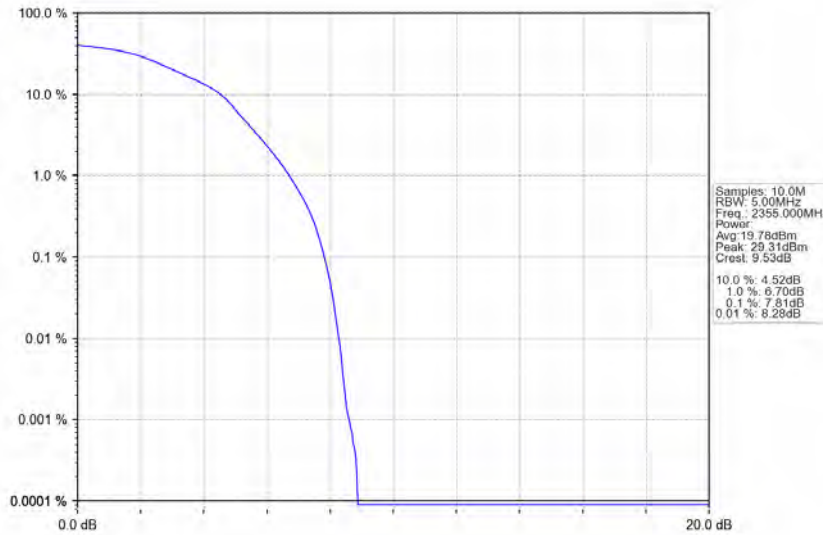
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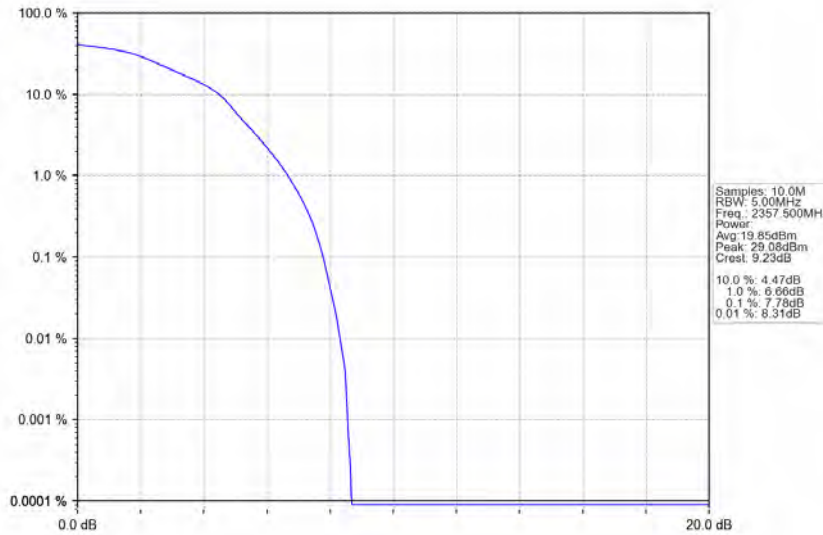
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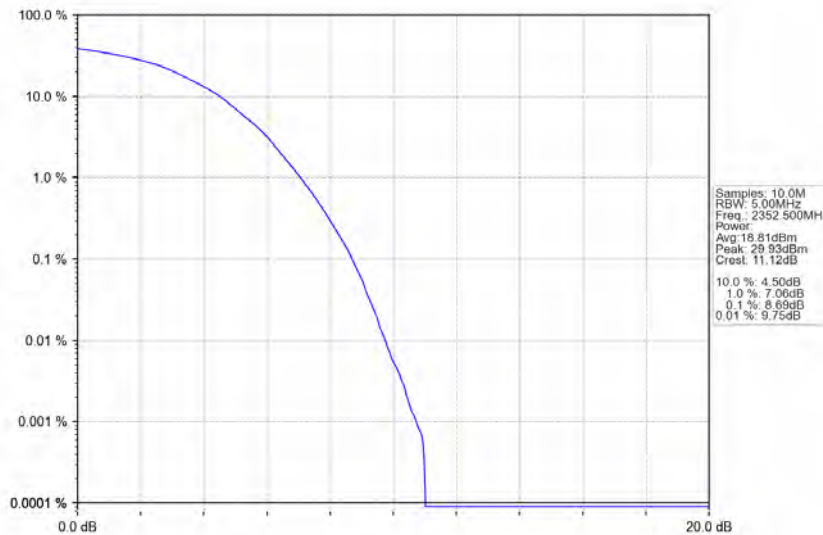
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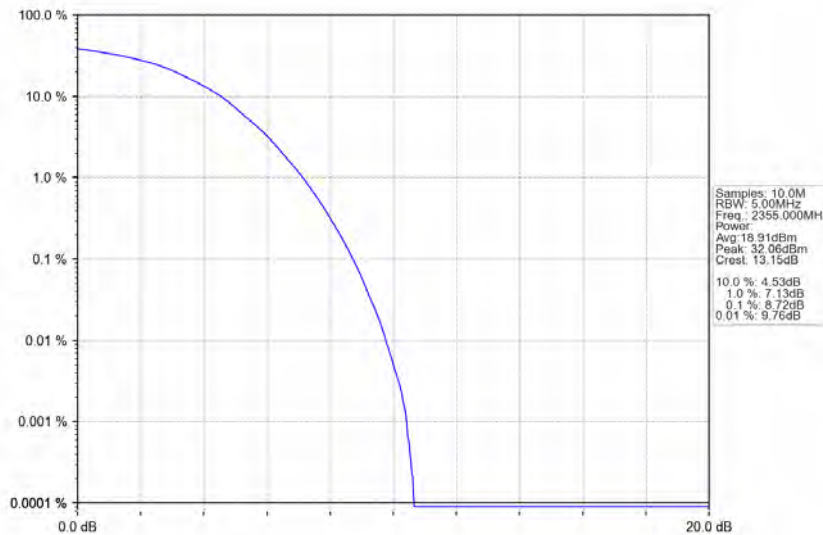
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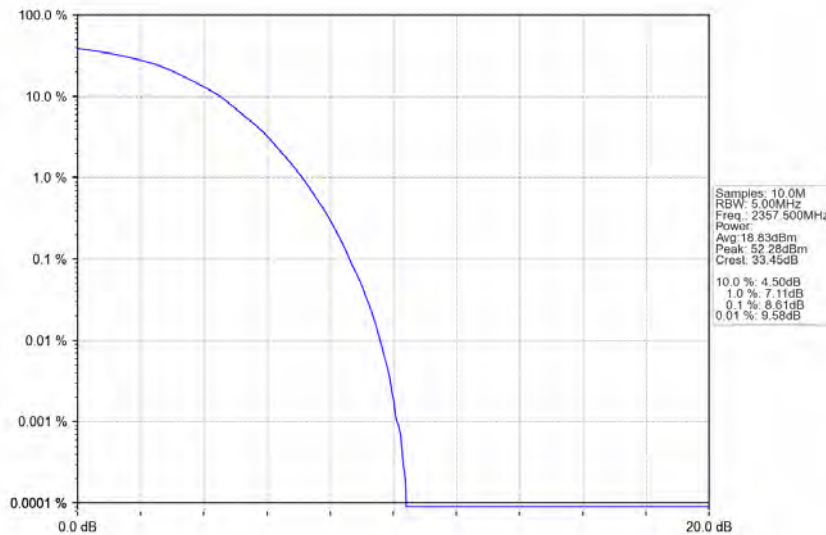
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5.2 B40b_10MHz

5.2.1 Test Result

Band: 40b / Bandwidth: 10MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2355	50	0	7.43	<=13	Pass
	2355	50	0	7.38	<=13	Pass
	2355	50	0	7.44	<=13	Pass
16QAM	2355	50	0	8.47	<=13	Pass
	2355	50	0	8.46	<=13	Pass
	2355	50	0	8.56	<=13	Pass
64QAM	2355	50	0	8.74	<=13	Pass
	2355	50	0	8.73	<=13	Pass
	2355	50	0	8.78	<=13	Pass

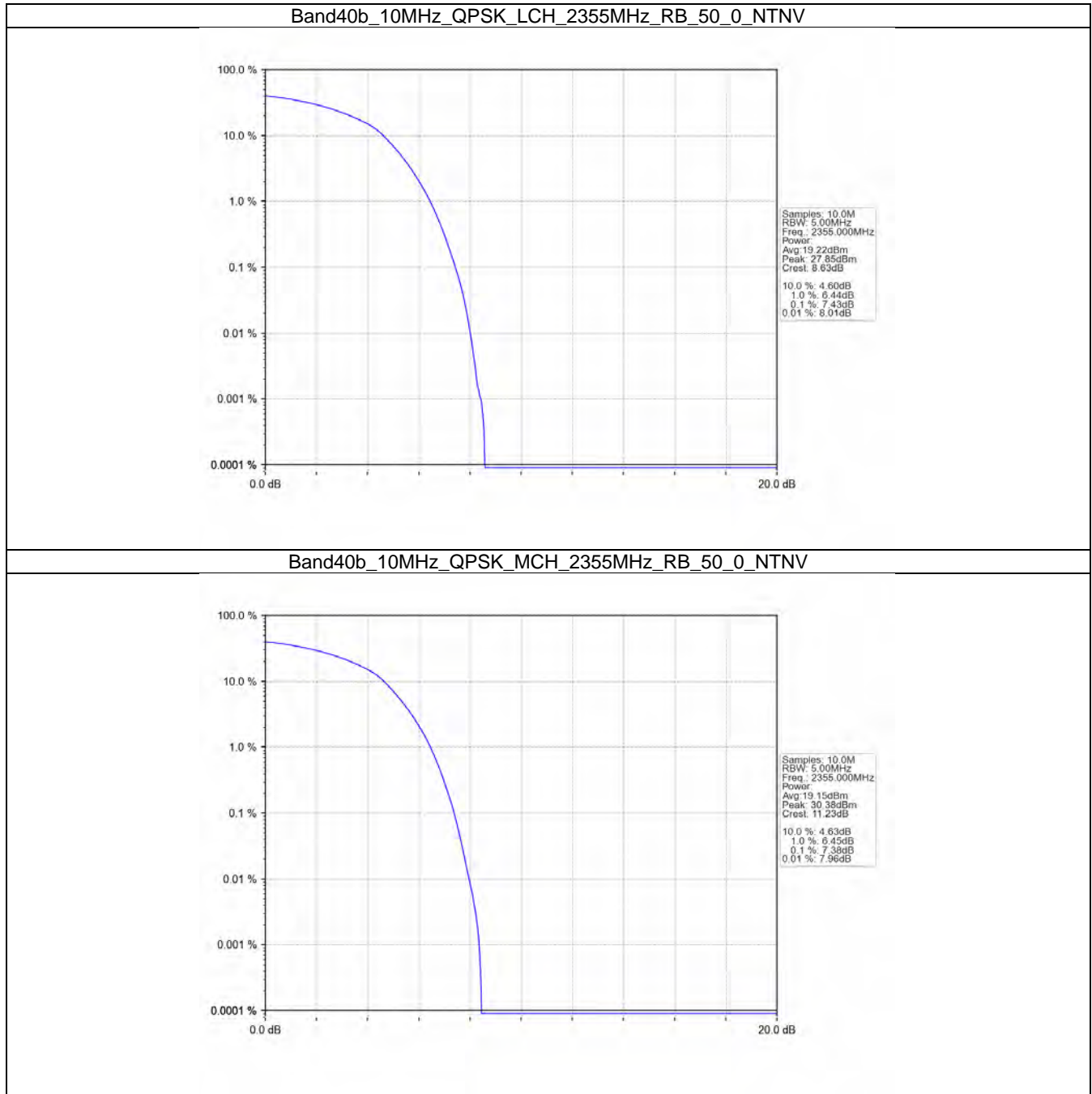


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5.2.2 Test Graph



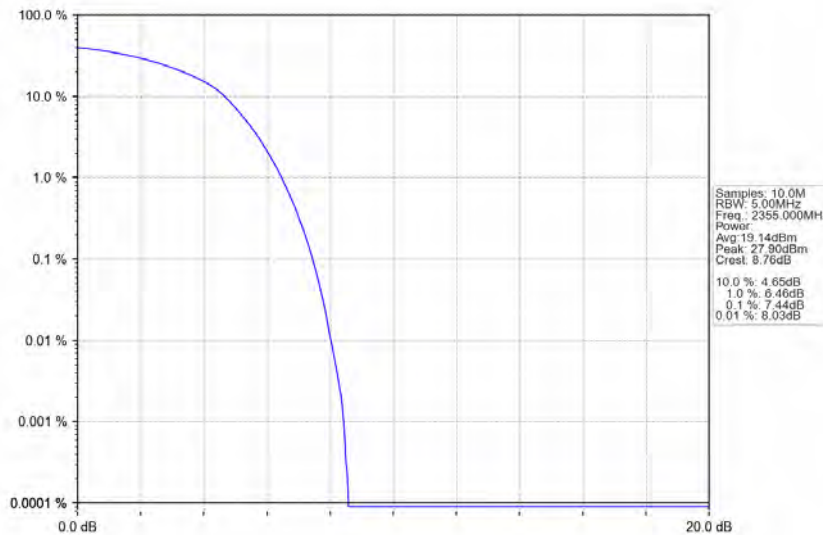
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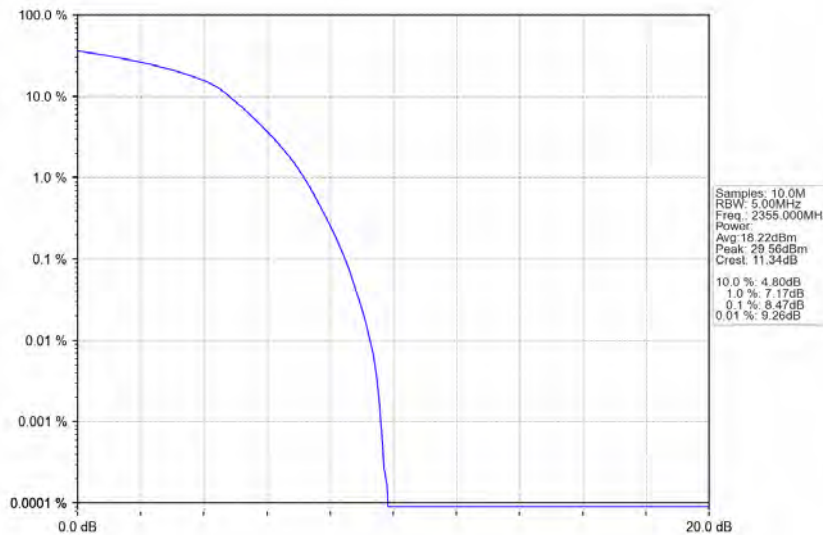
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Band40b_10MHz_16QAM_LCH_2355MHz_RB_50_0_NTNV



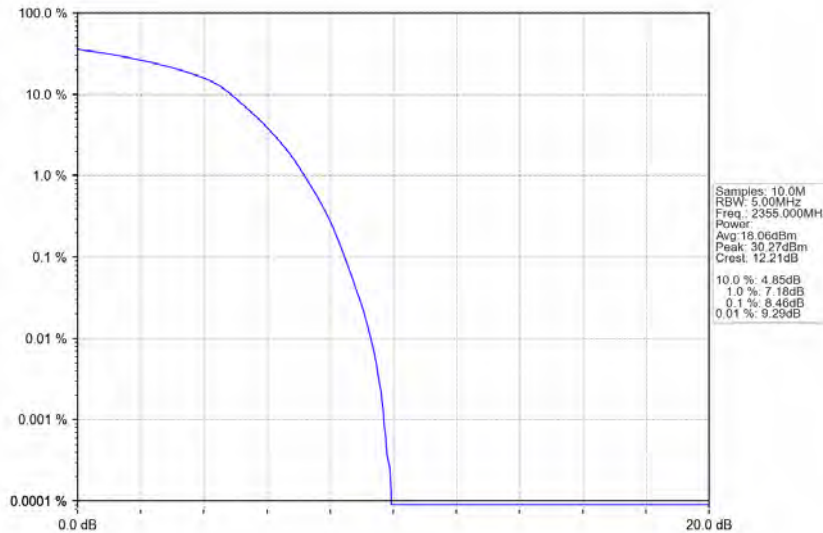
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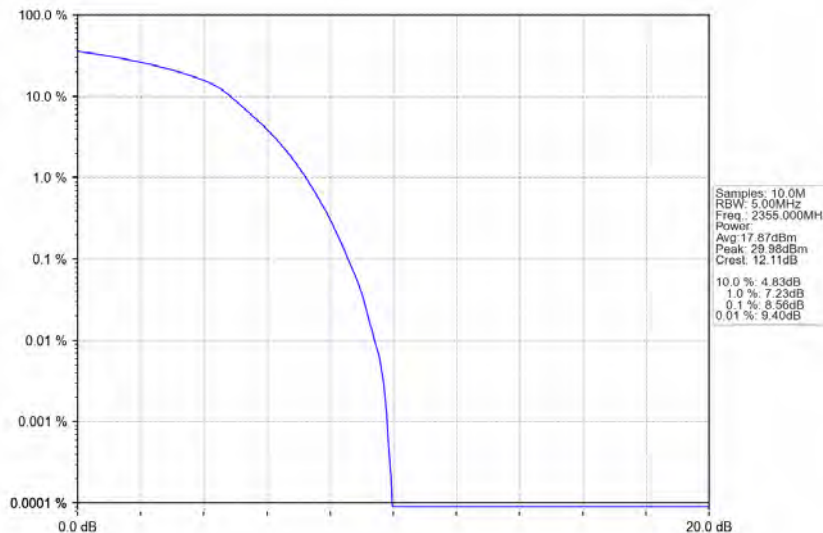
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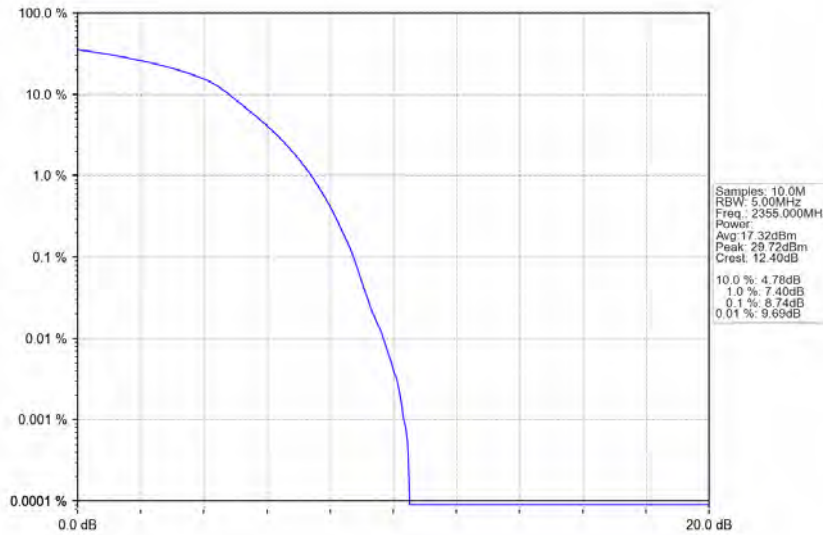
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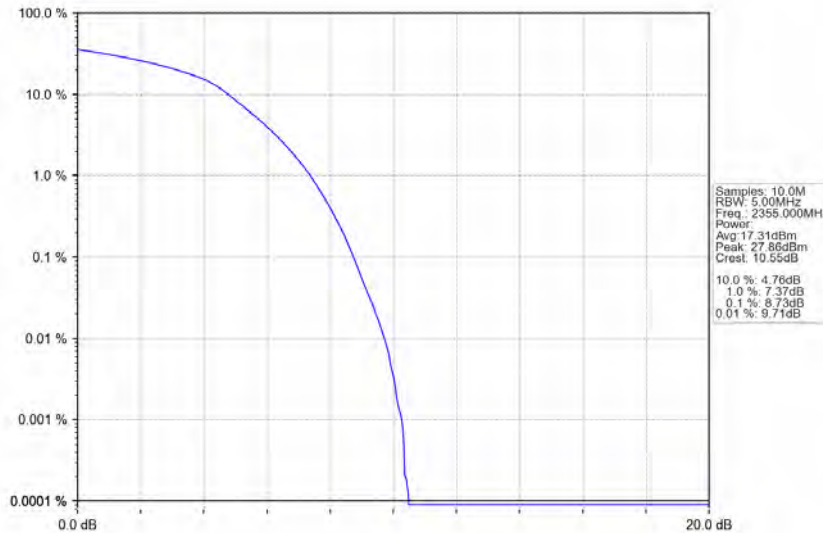
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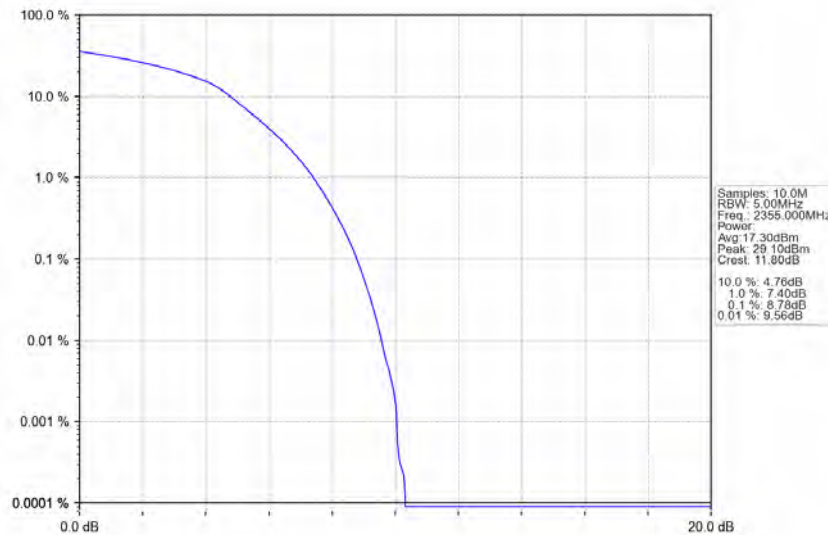
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6. Spurious Emission

6.1 B40b_5MHz

6.1.1 Test Result

Band: 40b / Bandwidth: 5MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2352.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	2355	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
	2357.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
16QAM	2352.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	2355	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
	2357.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
64QAM	2352.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	2355	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
	2357.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass



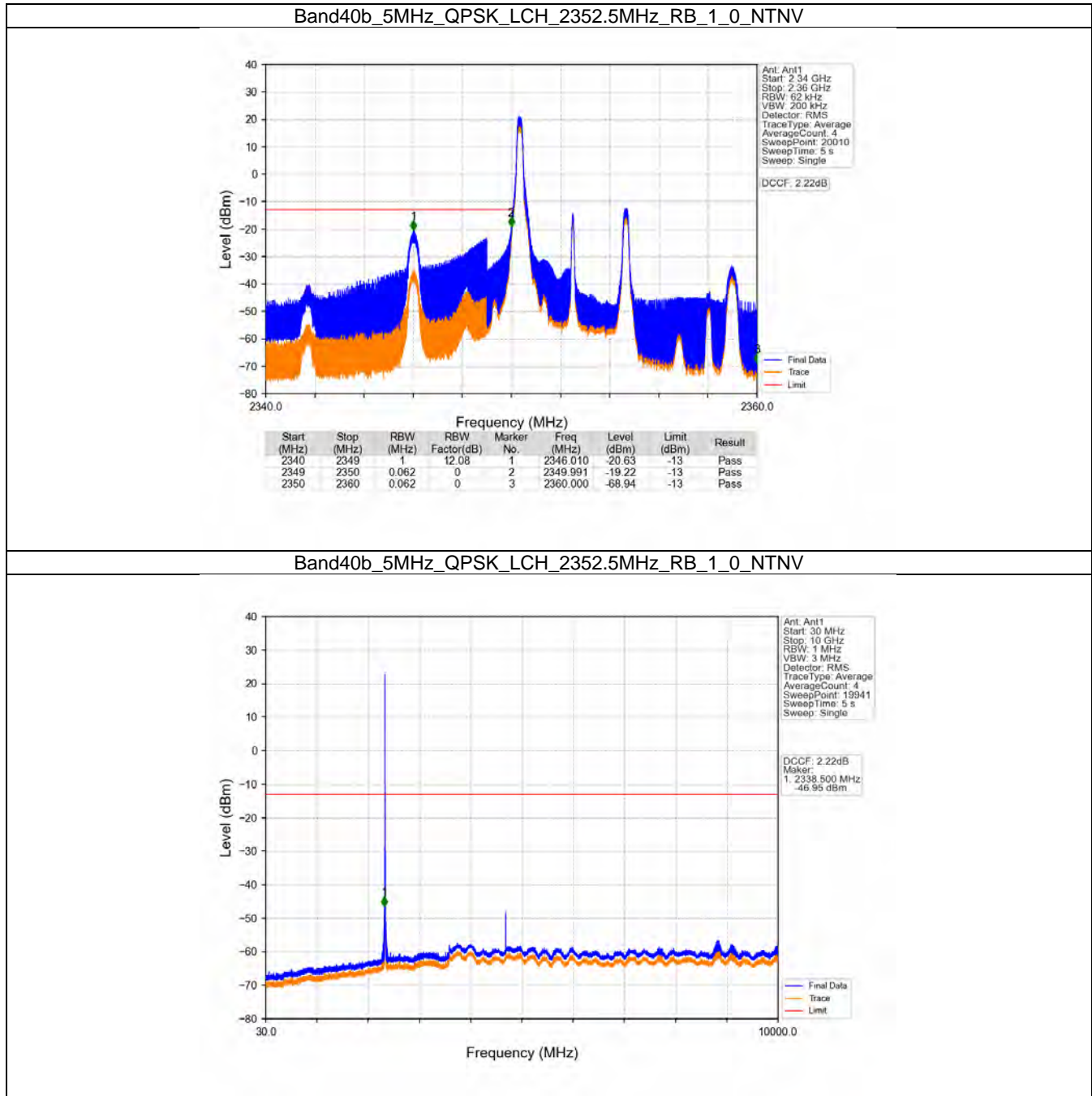
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6.1.2 Test Graph

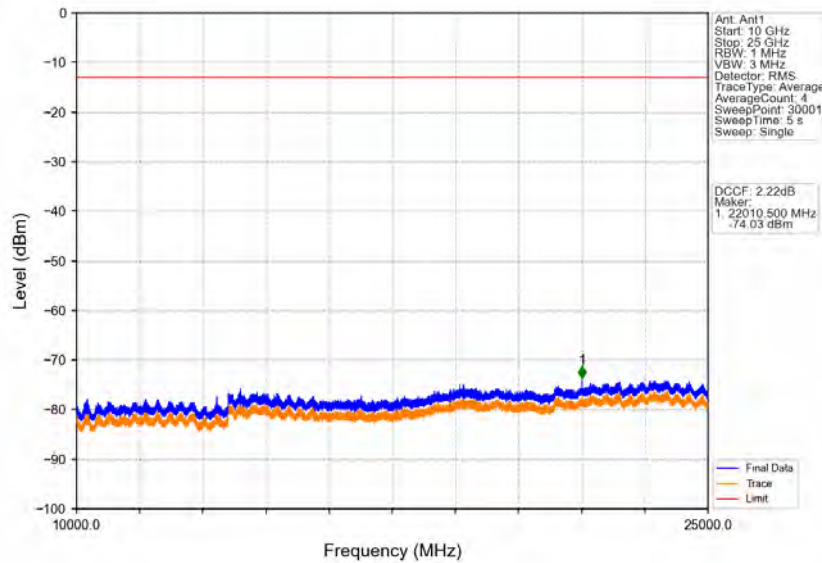


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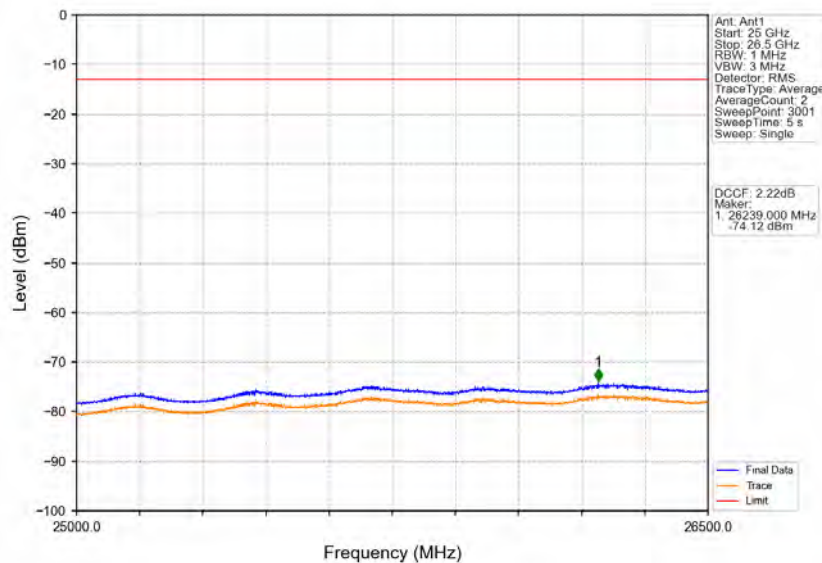
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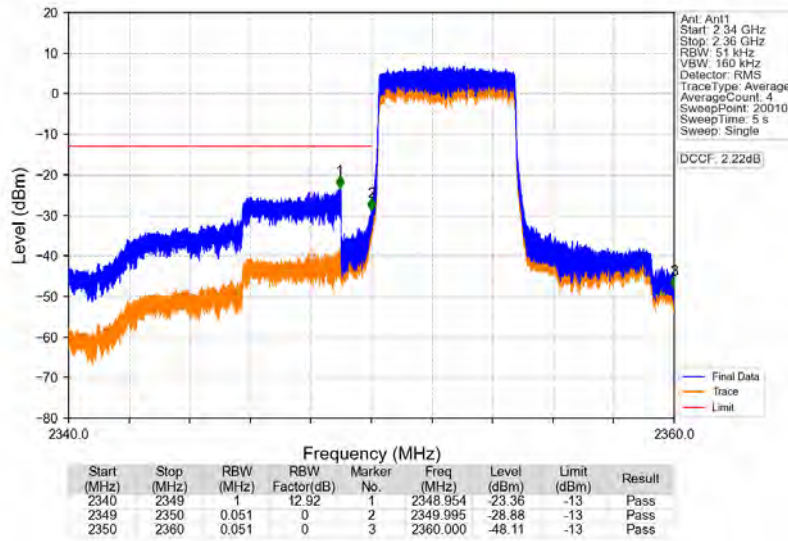
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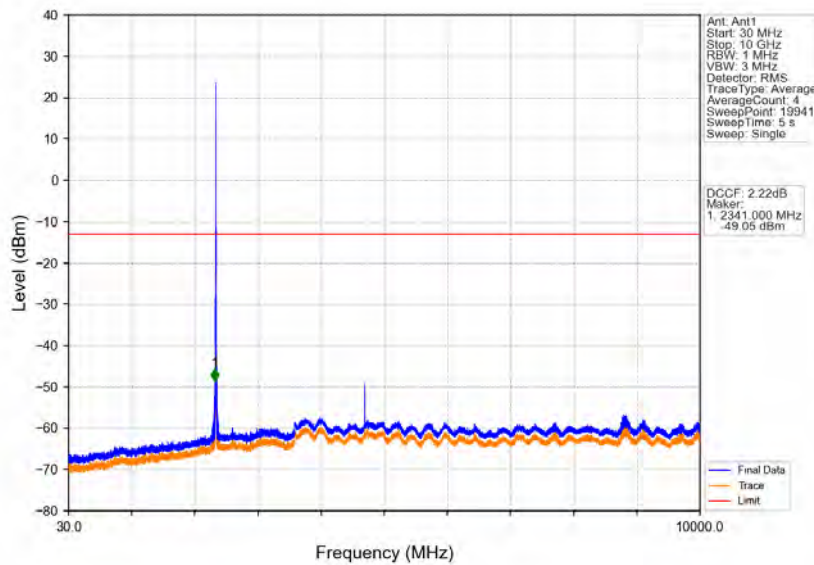
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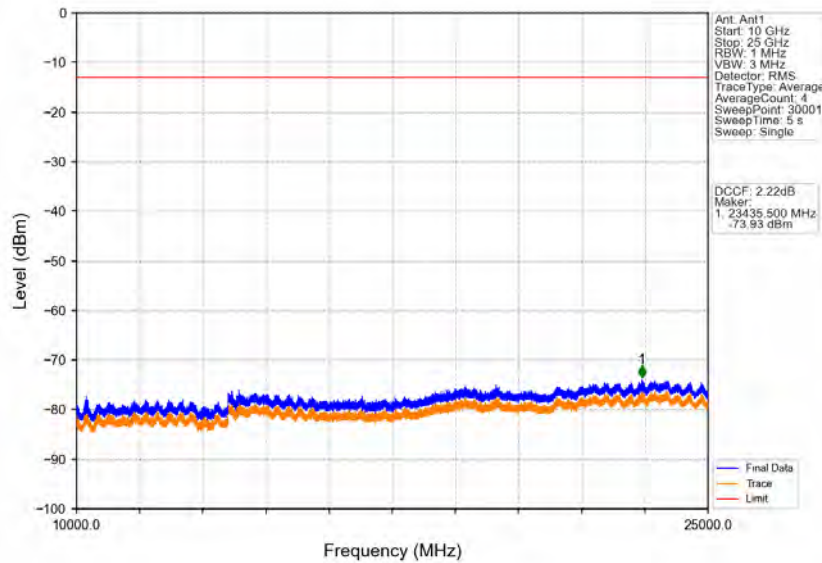
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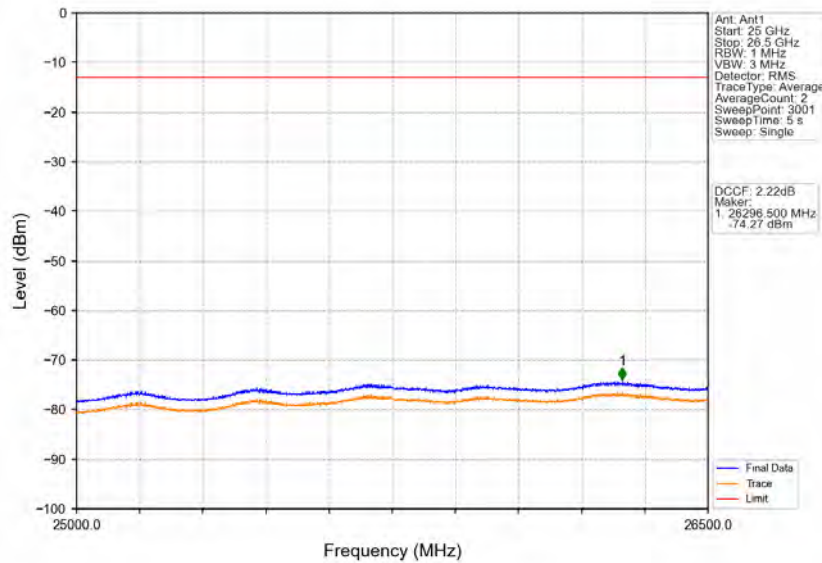


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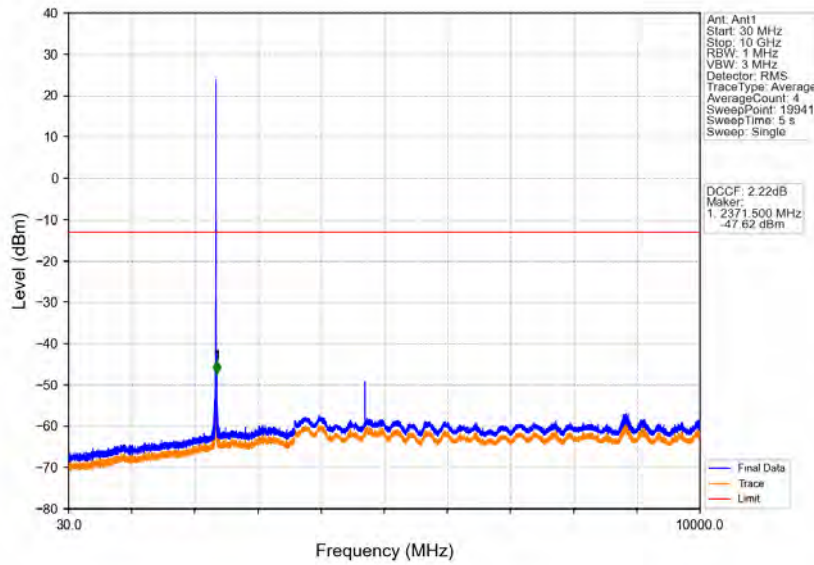
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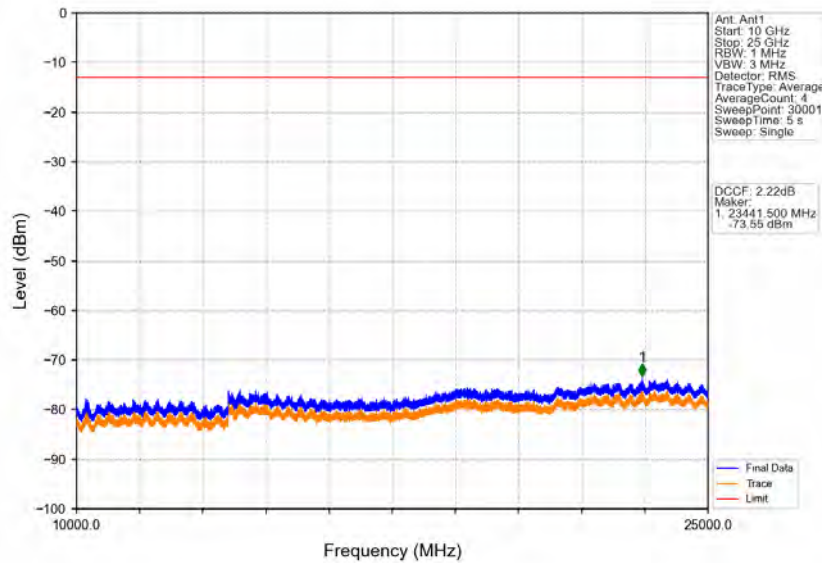
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Band40b_5MHz_QPSK_HCH_2357.5MHz_RB_1_0_NTNV



Band40b_5MHz_QPSK_HCH_2357.5MHz_RB_1_0_NTNV



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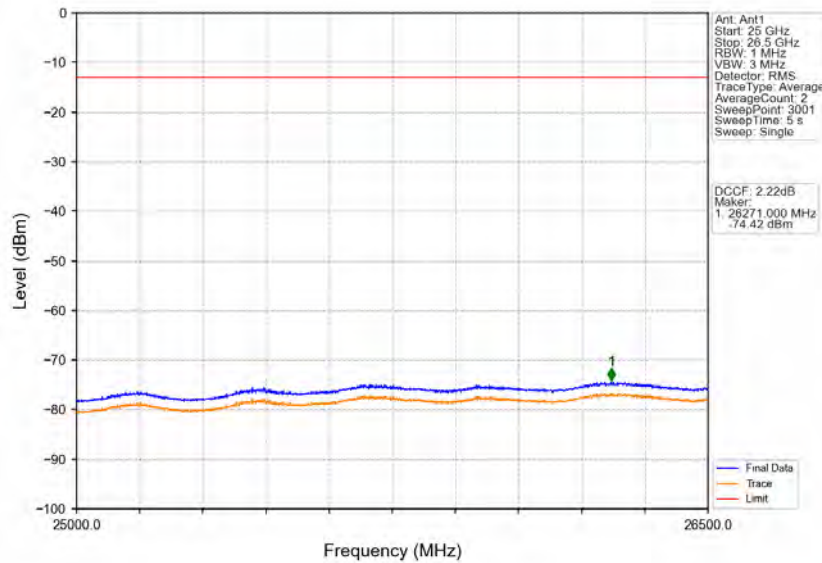
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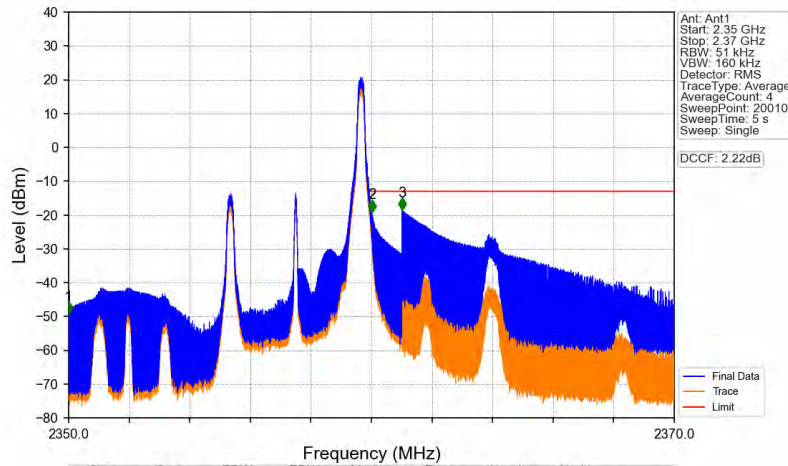
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Band40b_5MHz_QPSK_HCH_2357.5MHz_RB_1_0_NTNV



Band40b_5MHz_QPSK_HCH_2357.5MHz_RB_1_24_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2350	2360	0.051	0	1	2350.000	-49.35	-13	Pass
2360	2361	0.051	0	2	2360.018	-19.18	-13	Pass
2361	2370	1	12.92	3	2361.019	-18.72	-13	Pass



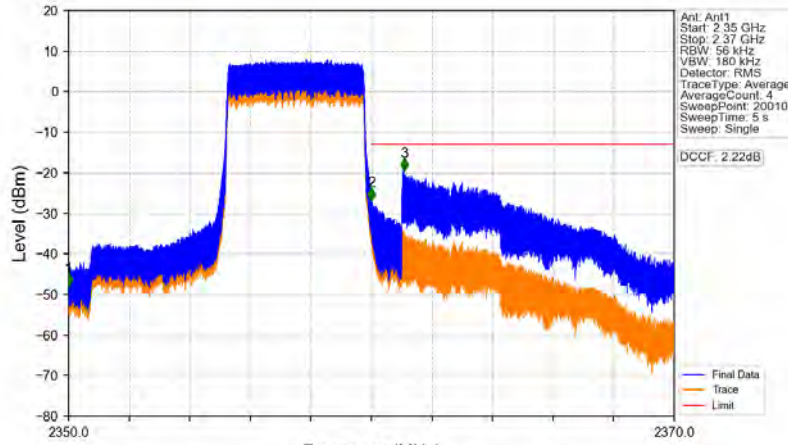
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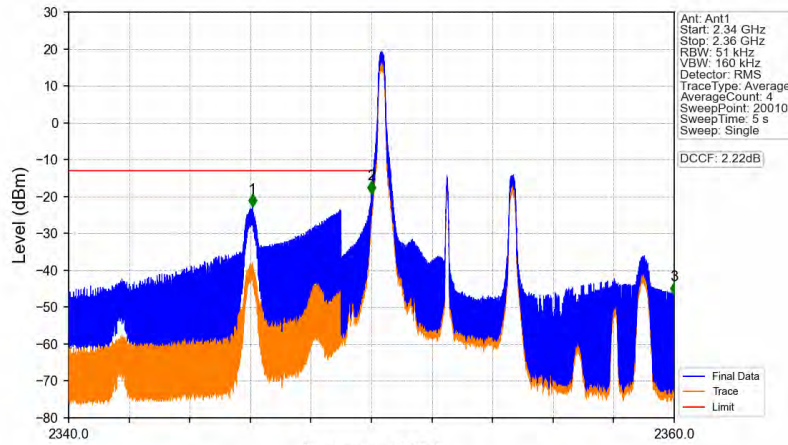
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Band40b_5MHz_QPSK_HCH_2357.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2350	2360	0.056	0	1	2350.000	-47.89	-13	Pass
2360	2361	0.056	0	2	2360.001	-26.84	-13	Pass
2361	2370	1	12.52	3	2361.079	-19.48	-13	Pass

Band40b_5MHz_16QAM_LCH_2352.5MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2340	2349	1	12.92	1	2346.073	-22.79	-13	Pass
2349	2350	0.051	0	2	2349.995	-19.21	-13	Pass
2350	2360	0.051	0	3	2360.000	-46.57	-13	Pass



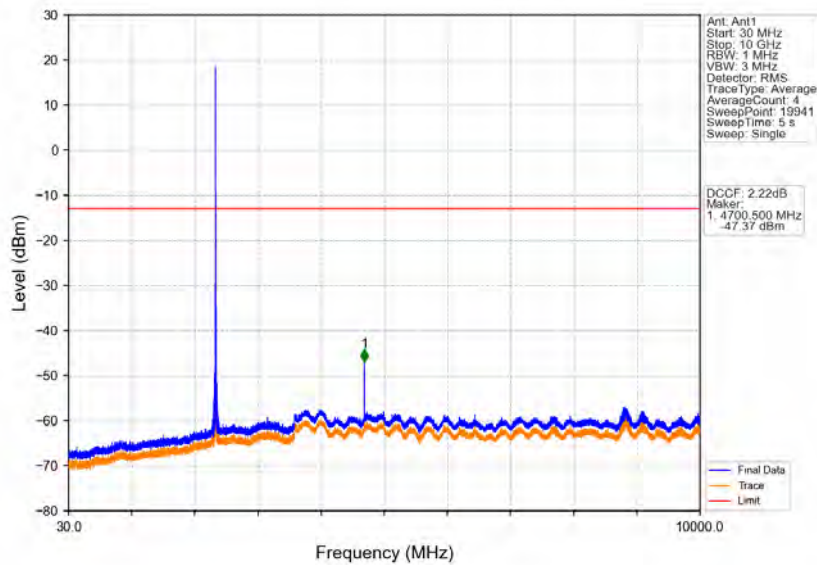
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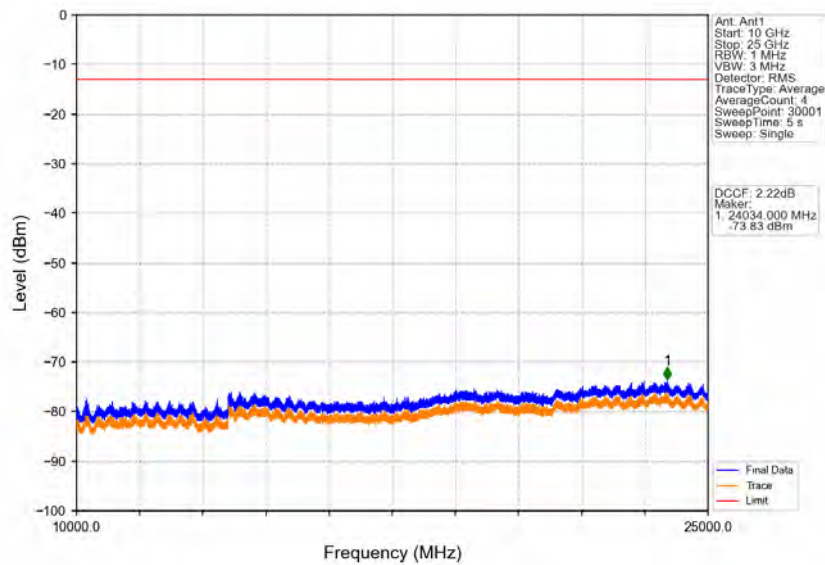
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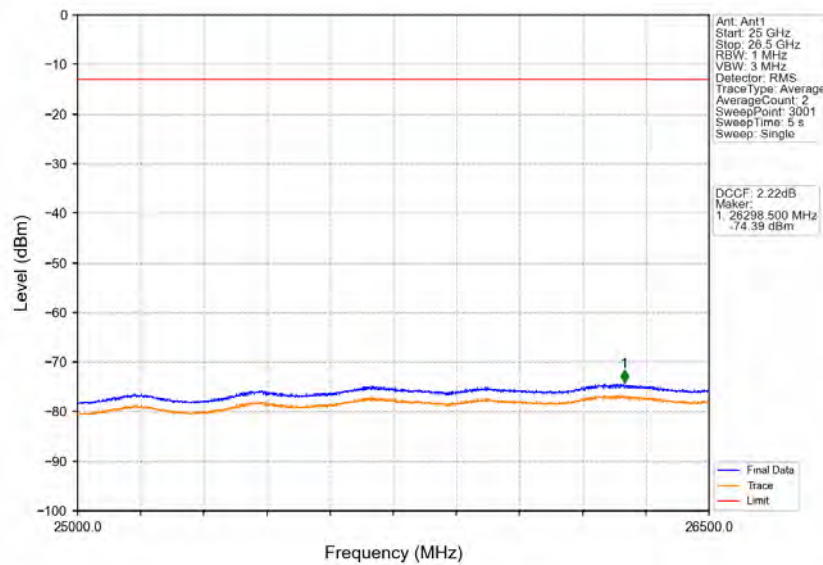


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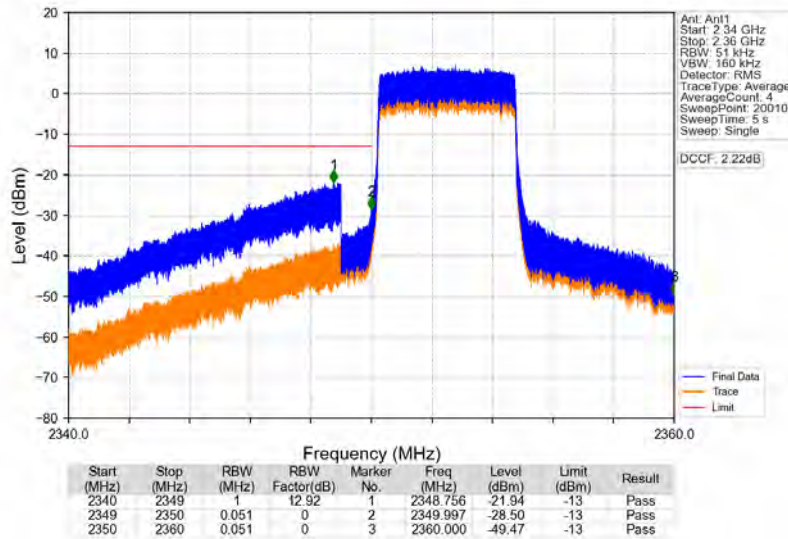
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Band40b_5MHz_16QAM_LCH_2352.5MHz_RB_25_0_NTNV



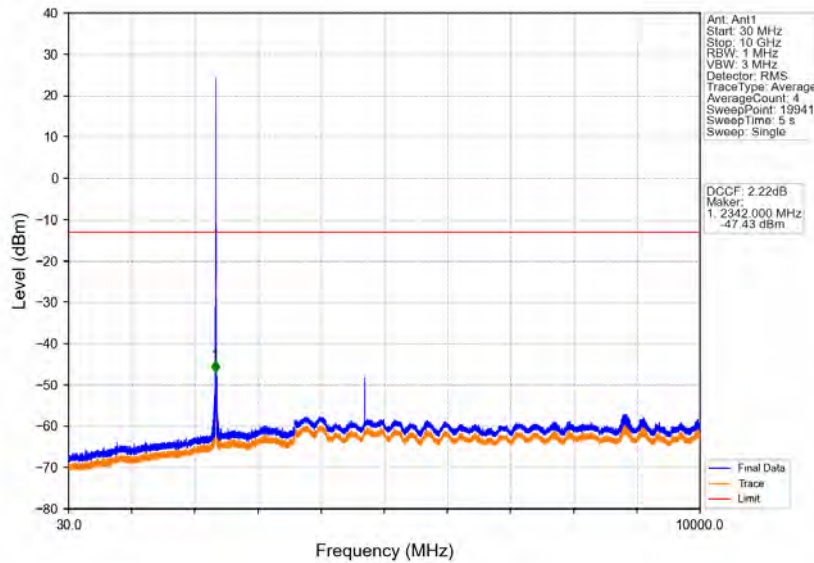
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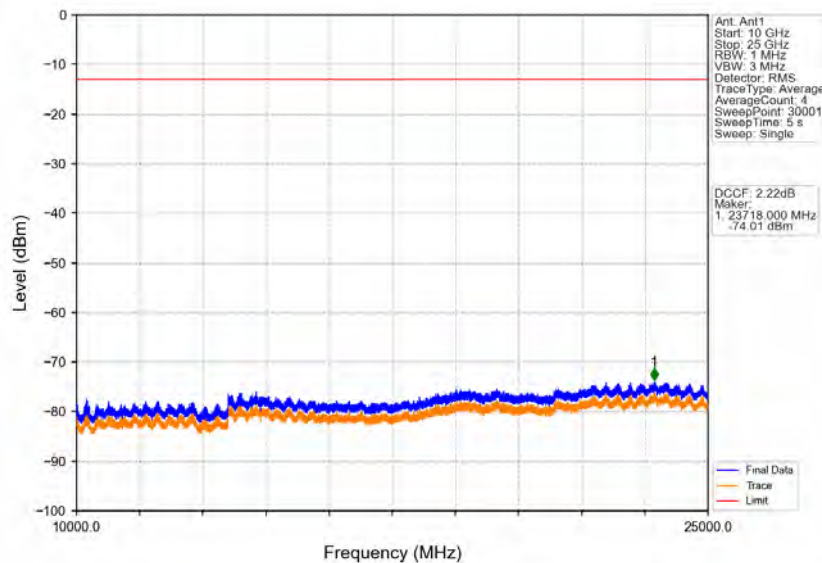
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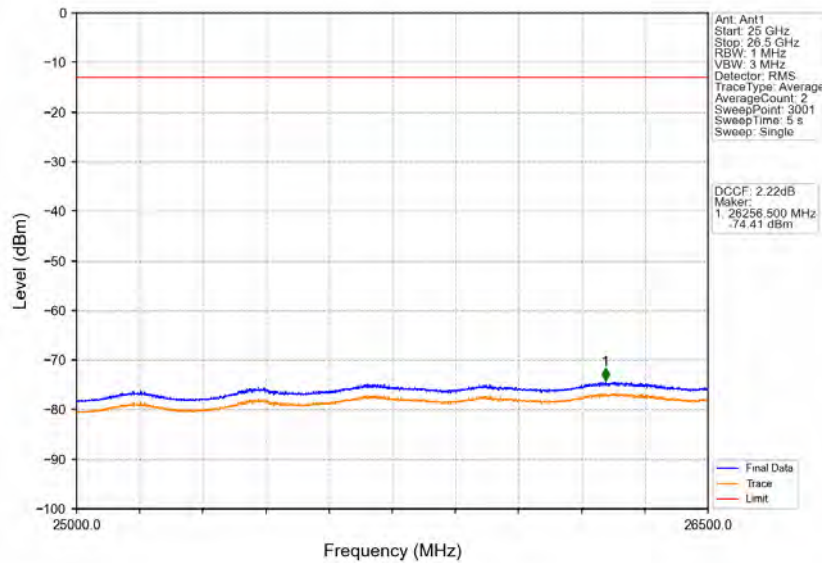
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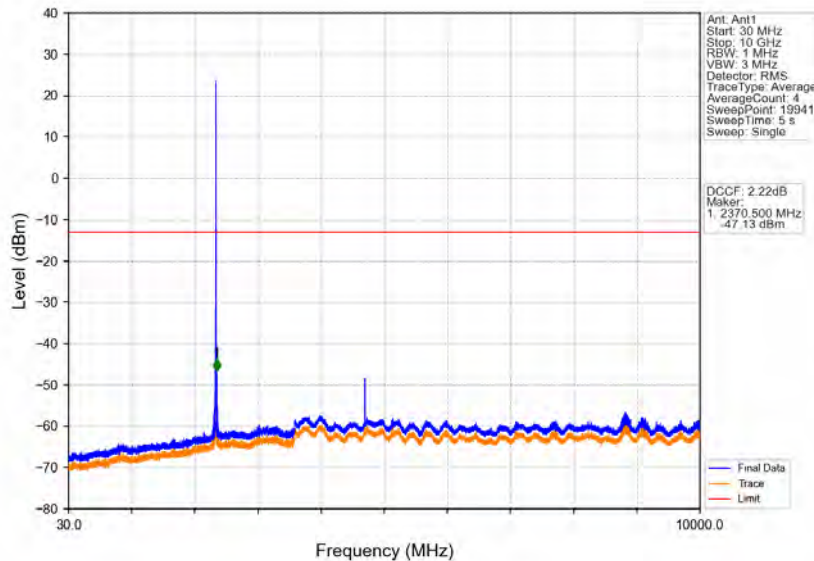


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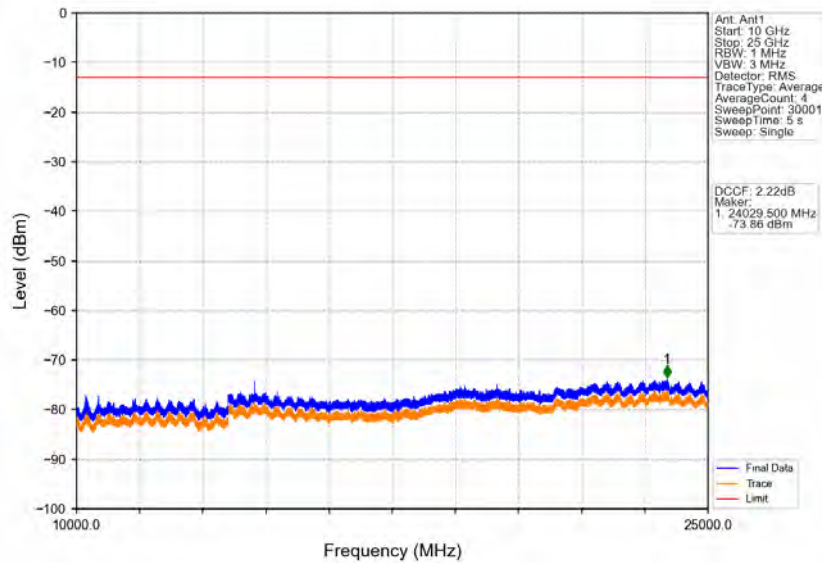
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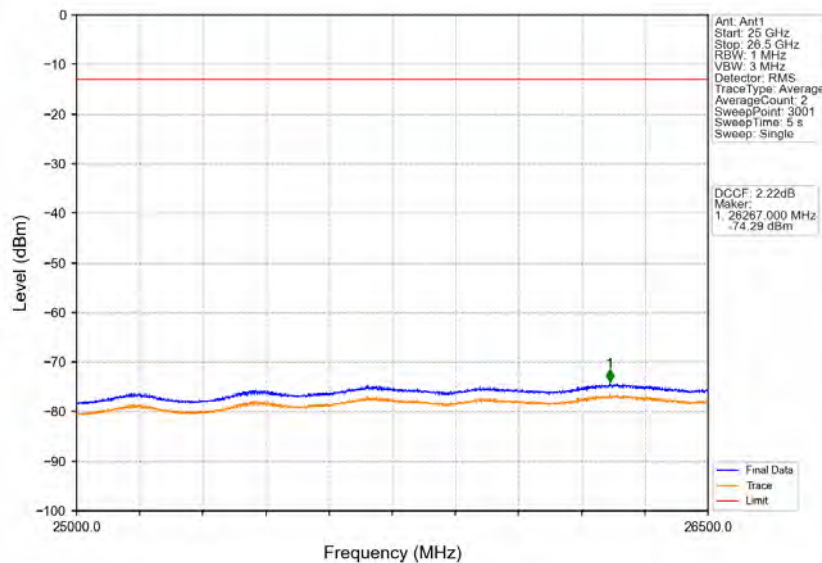
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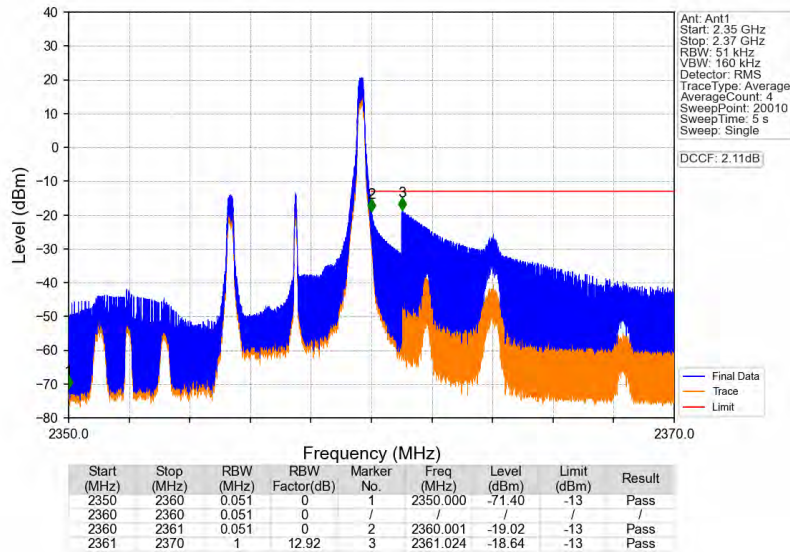
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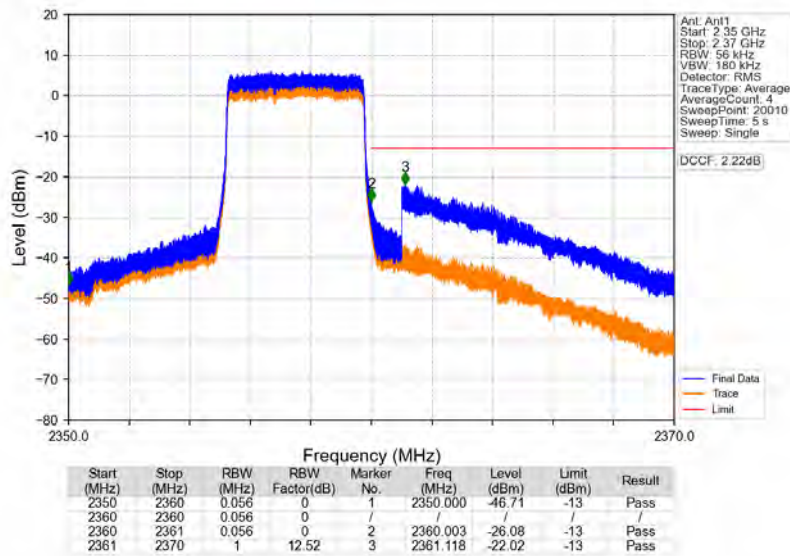
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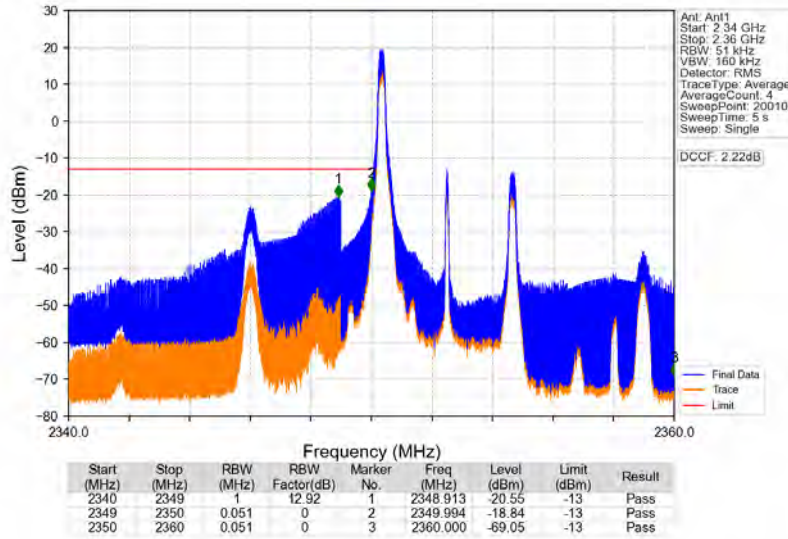
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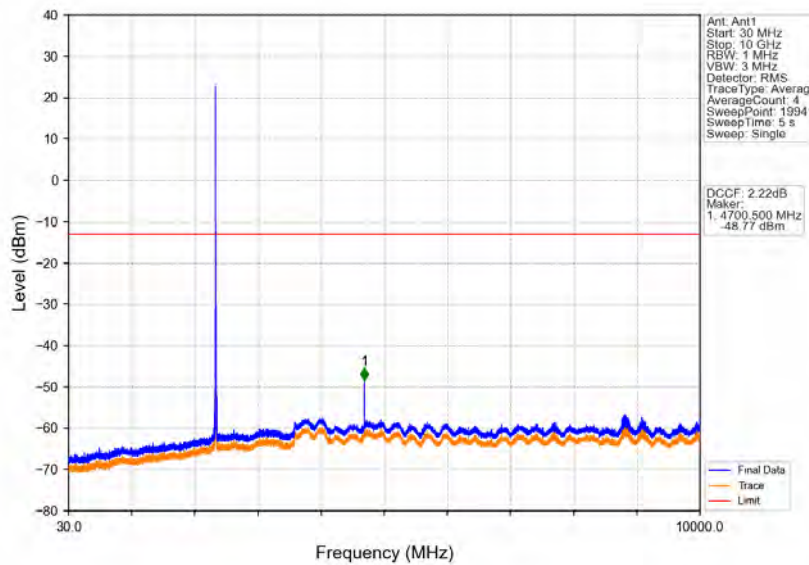
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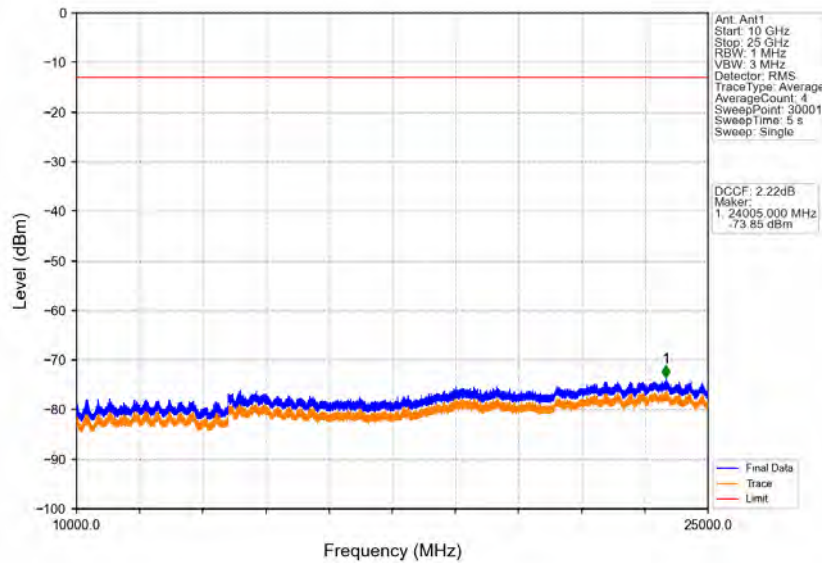
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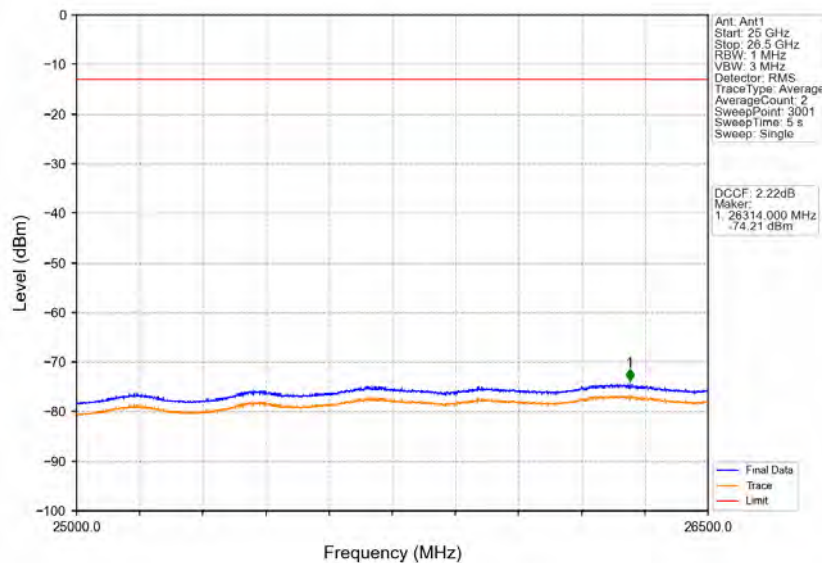
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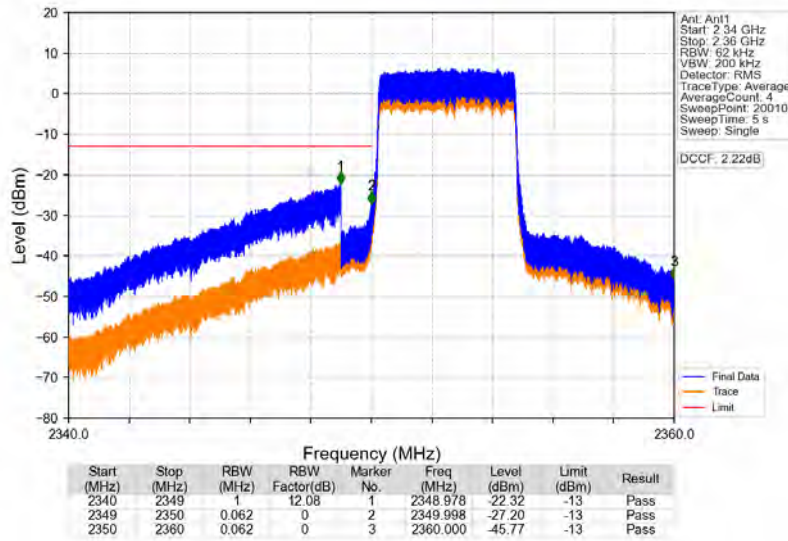
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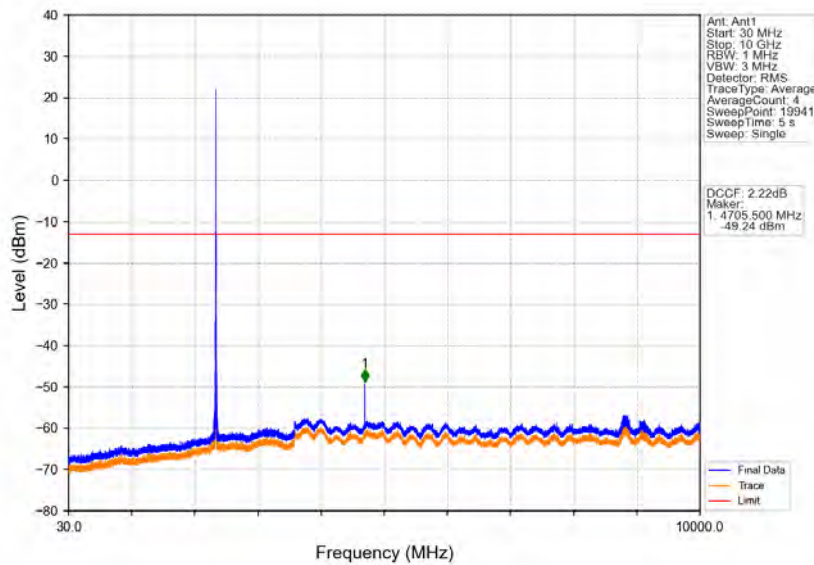
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Band40b_5MHz_64QAM_MCH_2355MHz_RB_1_0_NTNV



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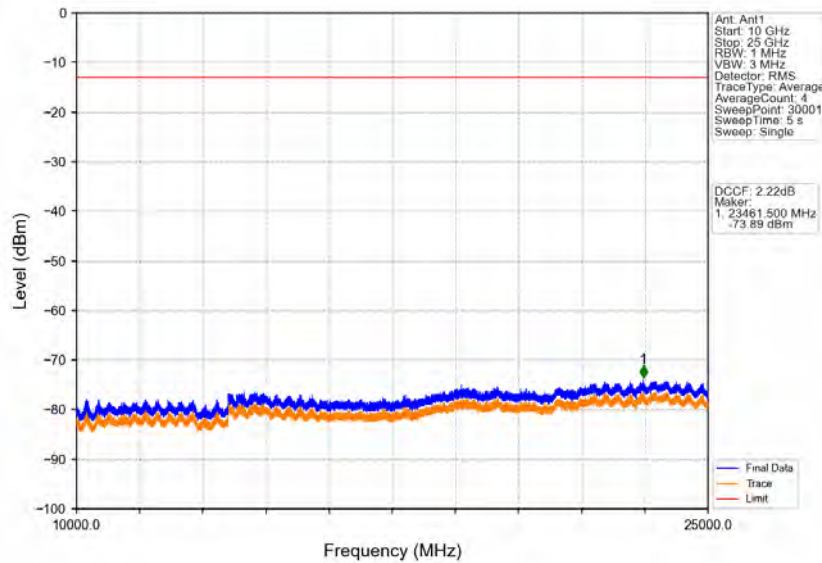
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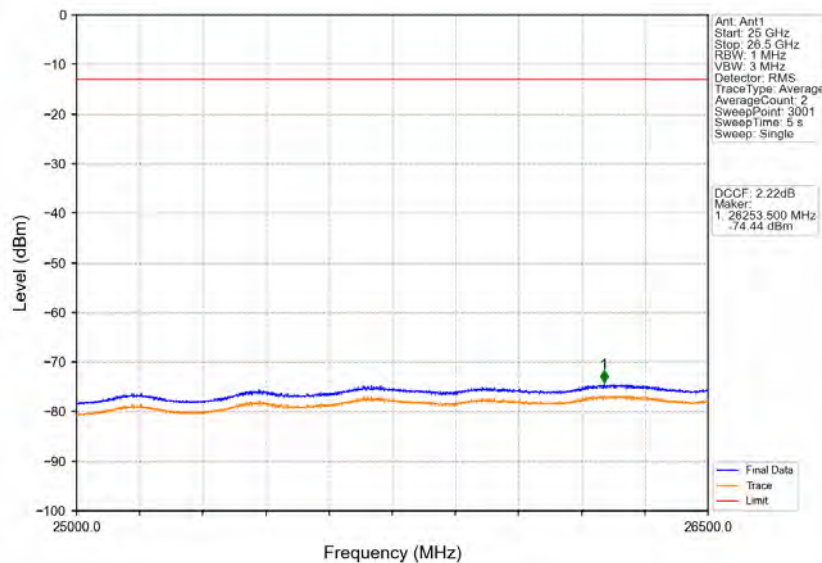
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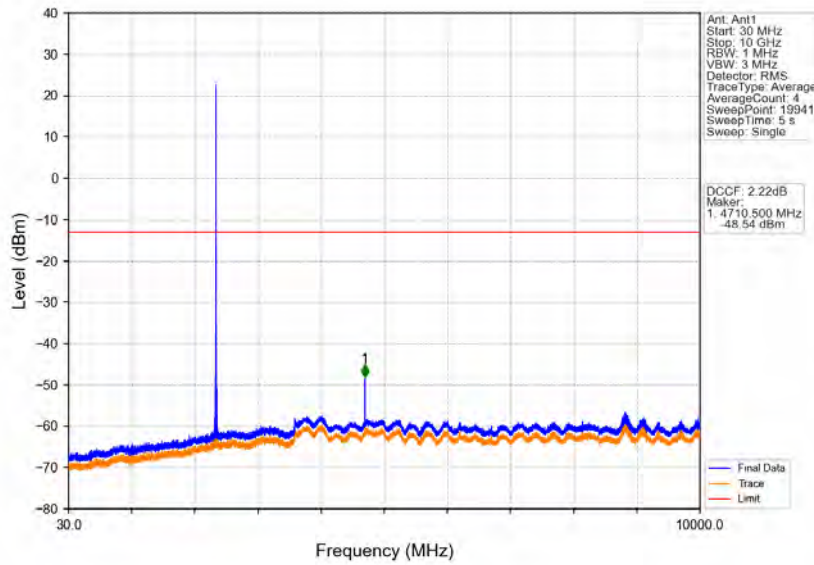
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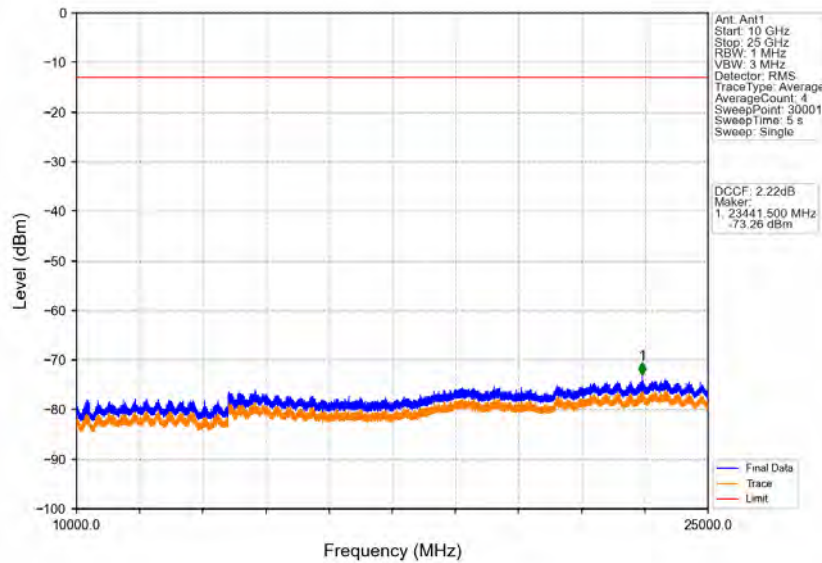
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Band40b_5MHz_64QAM_HCH_2357.5MHz_RB_1_0_NTNV



Band40b_5MHz_64QAM_HCH_2357.5MHz_RB_1_0_NTNV



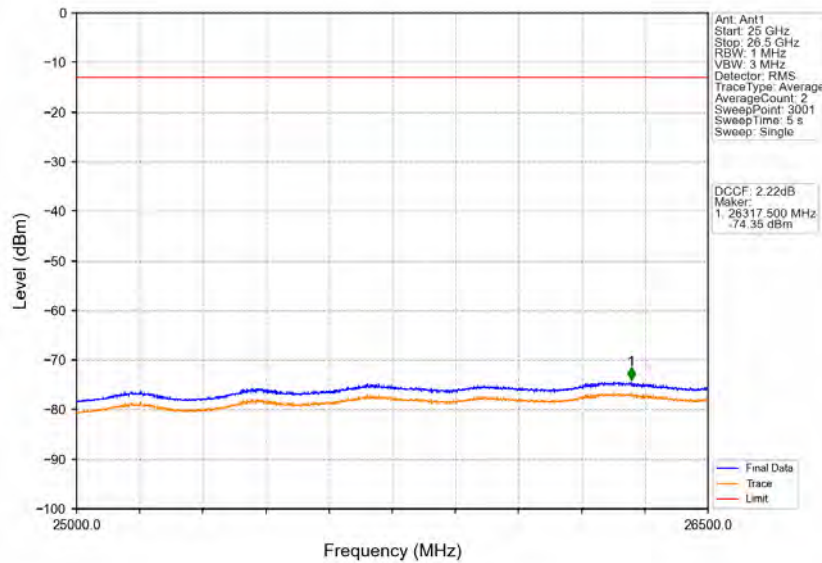
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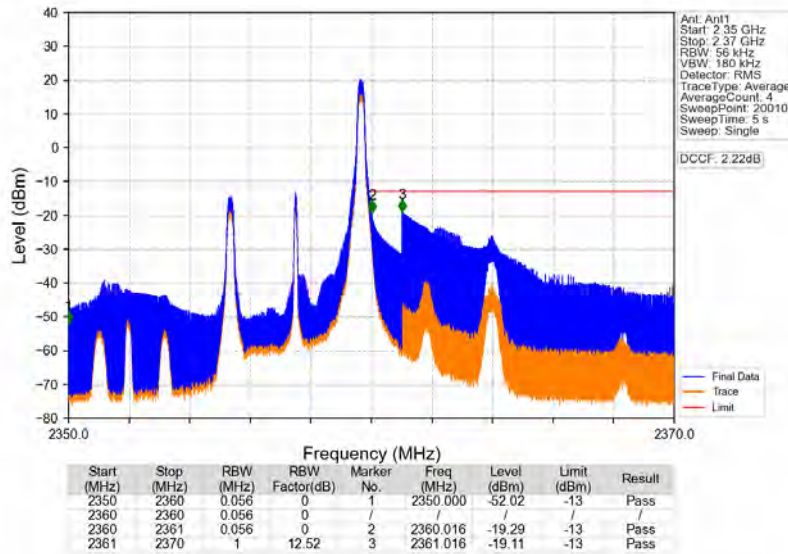
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Band40b_5MHz_64QAM_HCH_2357.5MHz_RB_1_24_NTNV



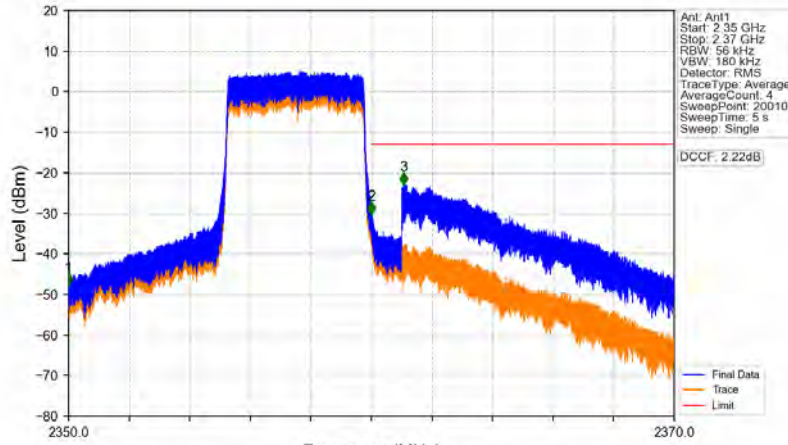
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Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2350	2360	0.056	0	1	2350.000	-47.70	-13	Pass
2360	2361	0.056	0	2	2360.001	-30.19	-13	Pass
2361	2370	1	12.52	3	2361.054	-22.96	-13	Pass



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6.2 B40b_10MHz

6.2.1 Test Result

Band: 40b / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2355	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	2355	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
50	0	Refer To Test Graph		Pass		
16QAM	2355	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	2355	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
50	0	Refer To Test Graph		Pass		
64QAM	2355	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	2355	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
50	0	Refer To Test Graph		Pass		

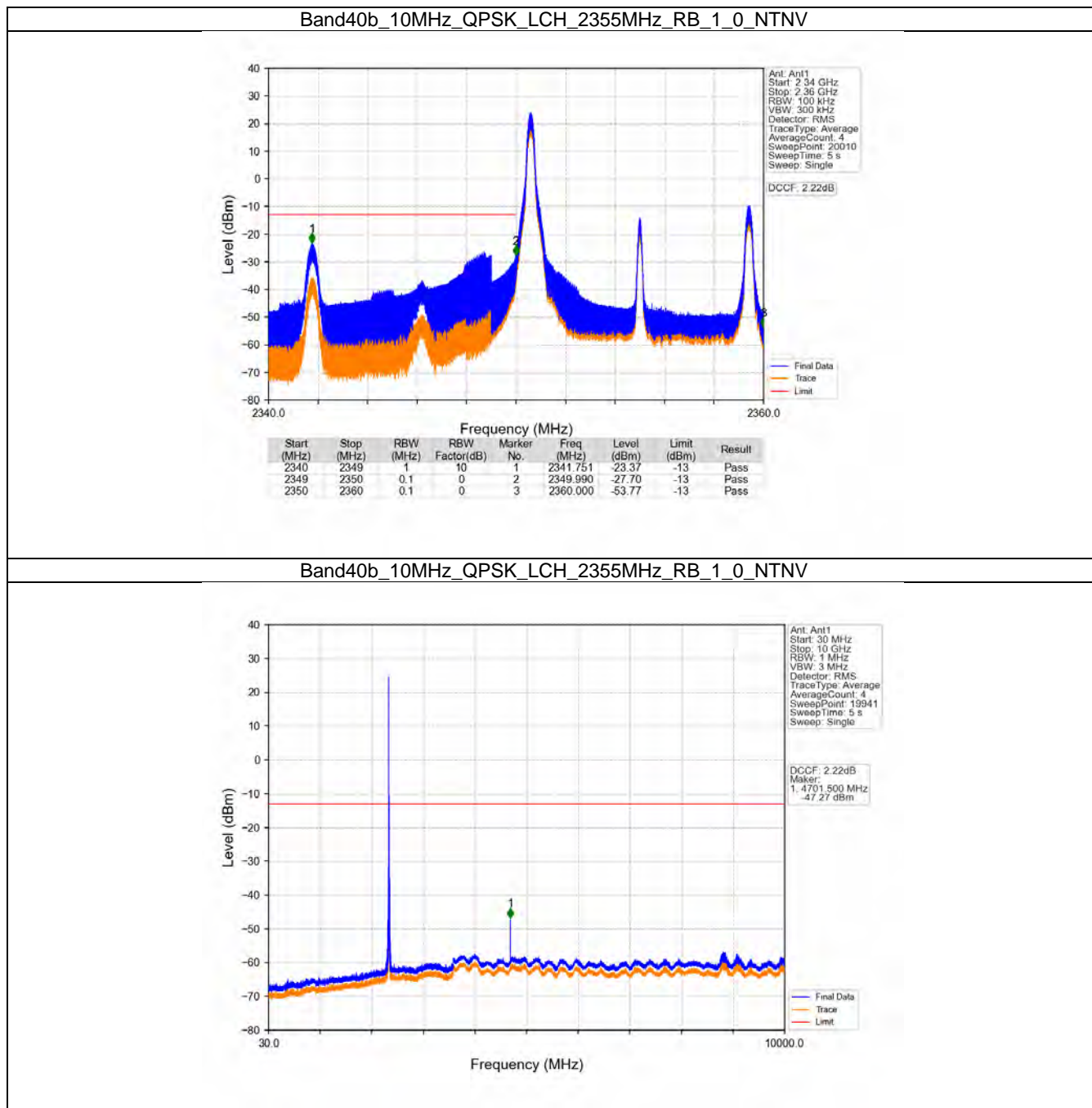


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6.2.2 Test Graph



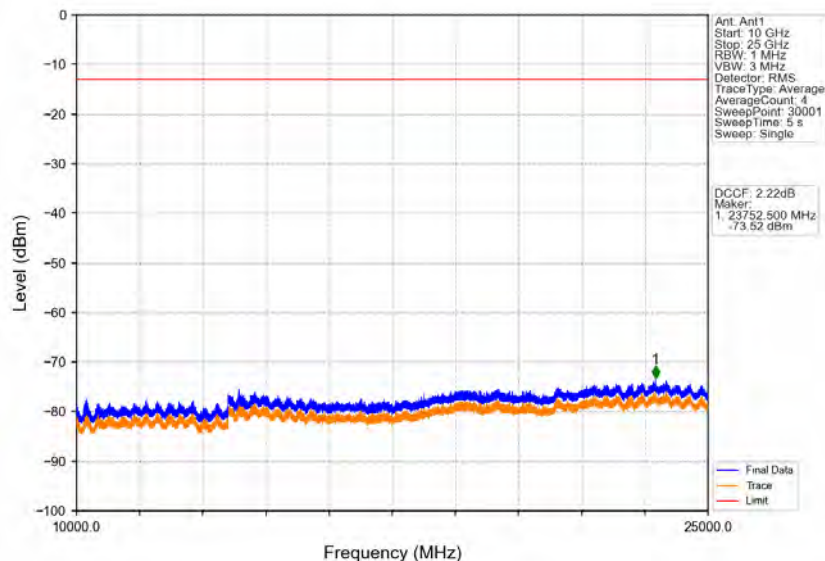
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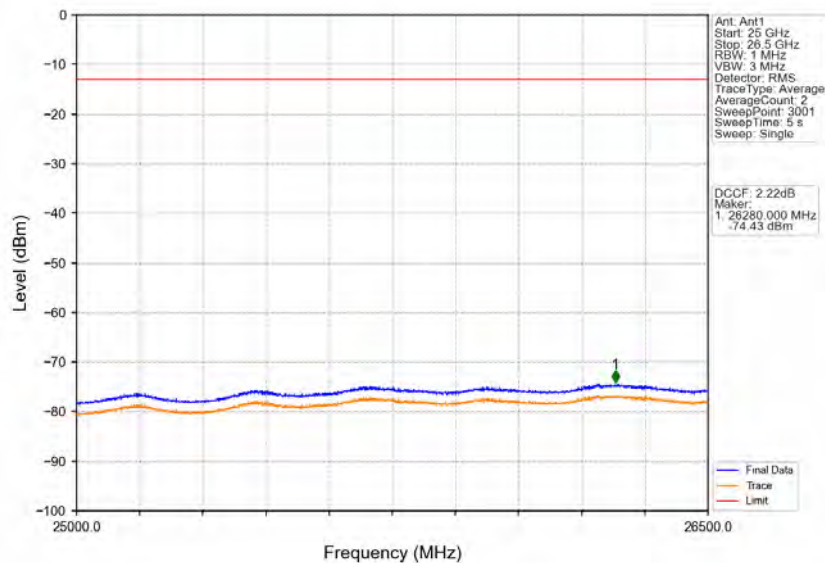
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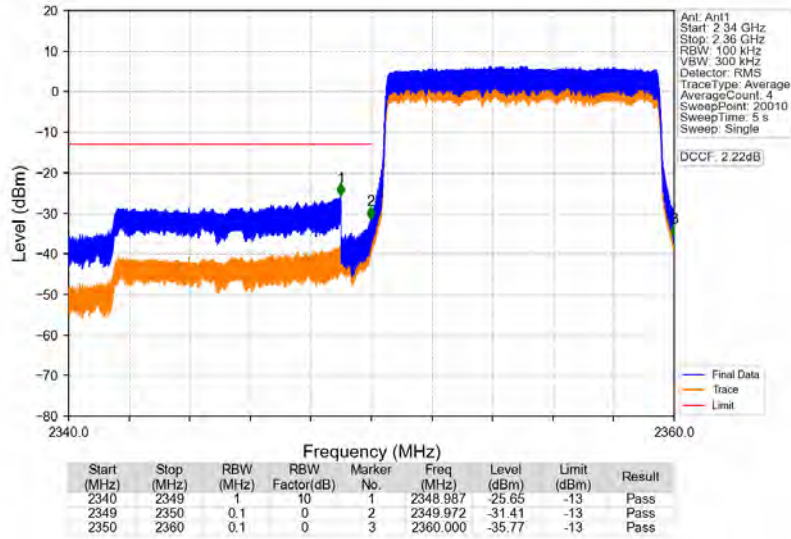
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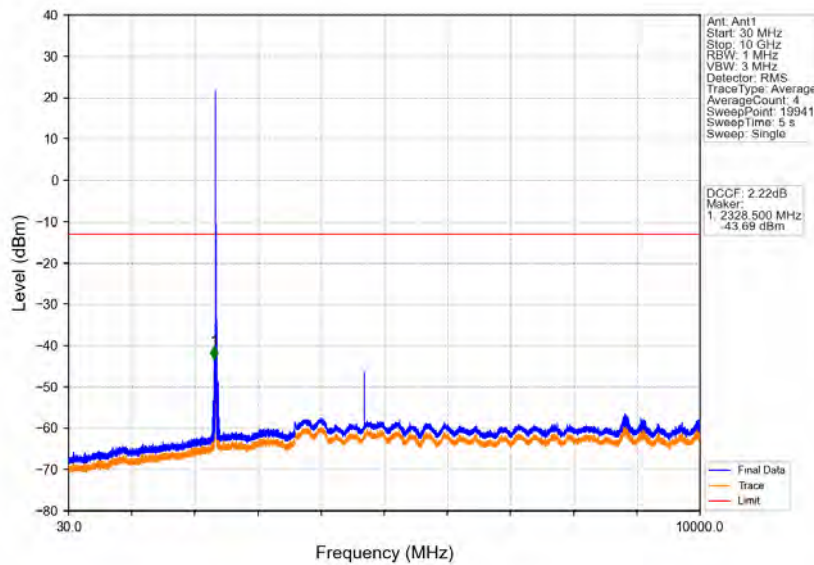
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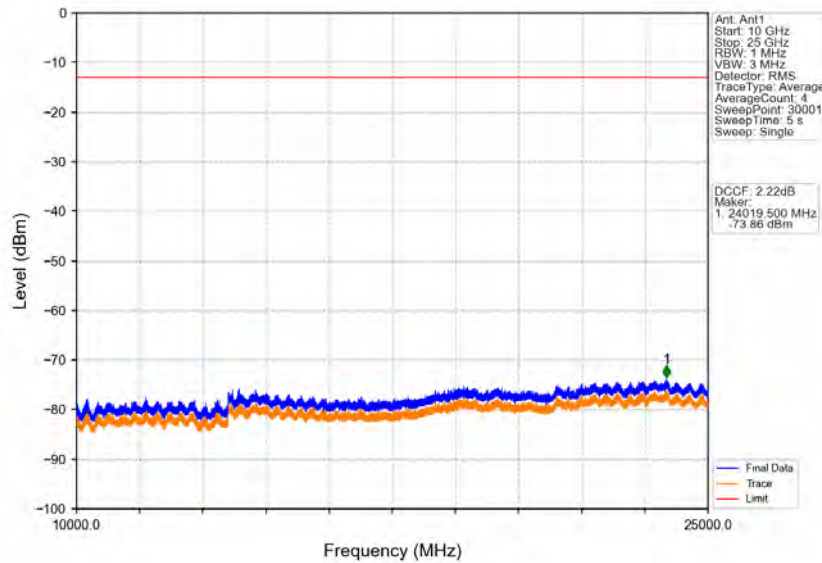
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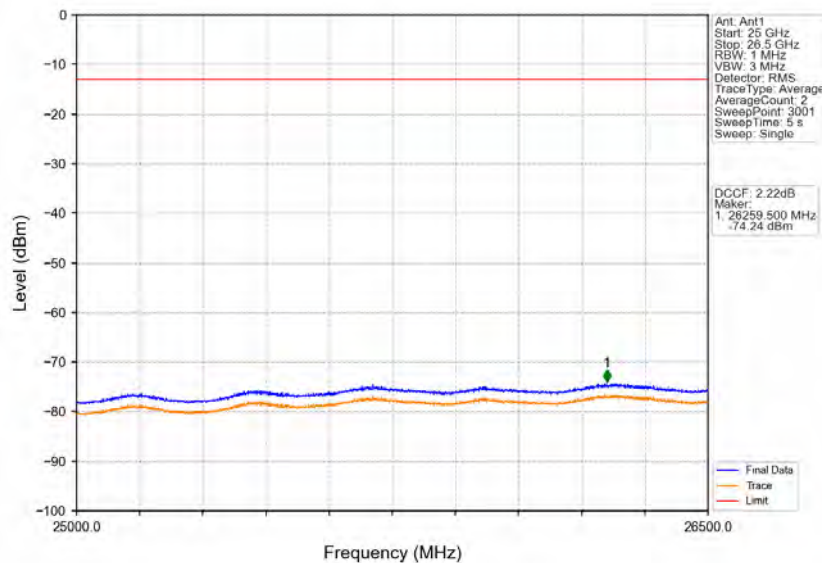
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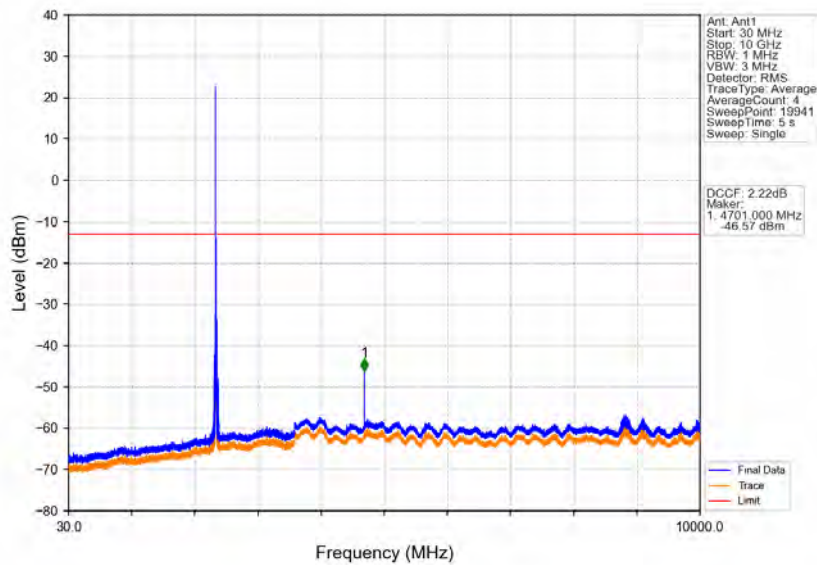
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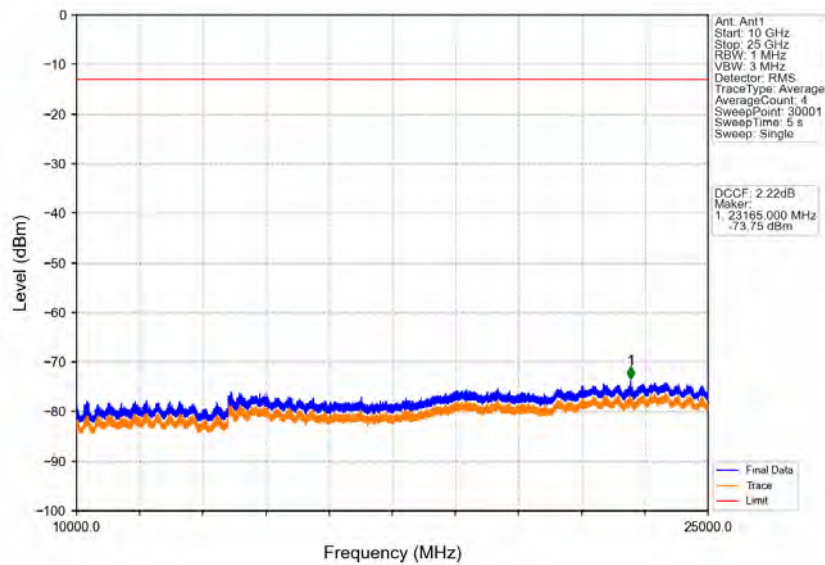
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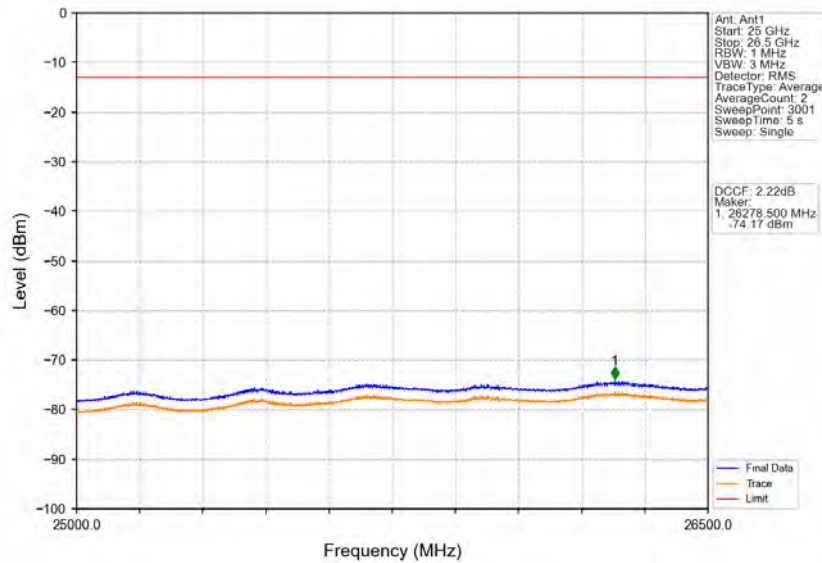
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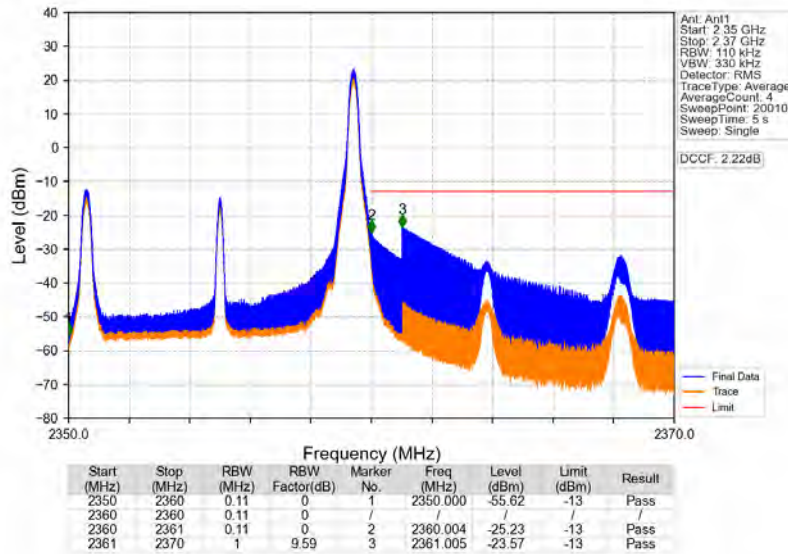
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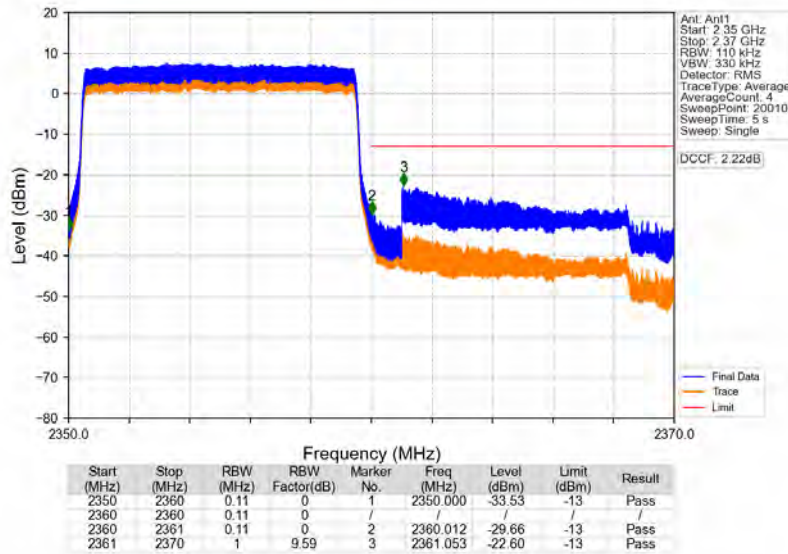
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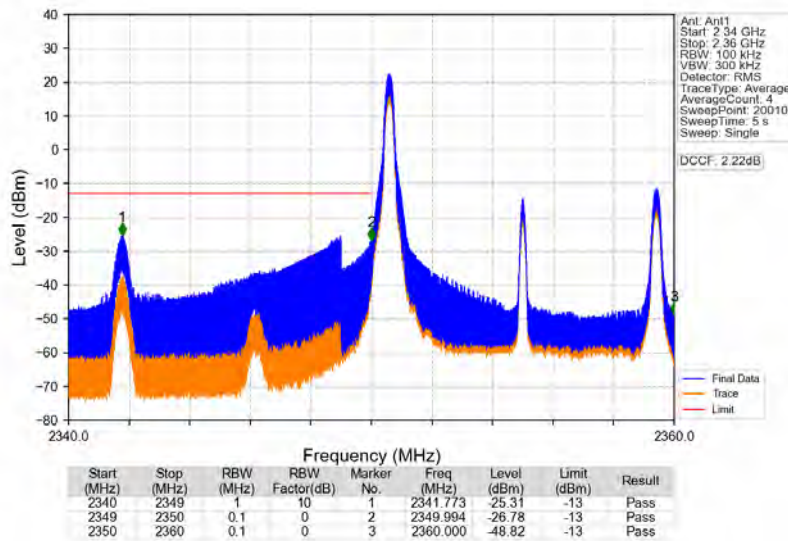
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Band40b_10MHz_16QAM_LCH_2355MHz_RB_1_0_NTNV

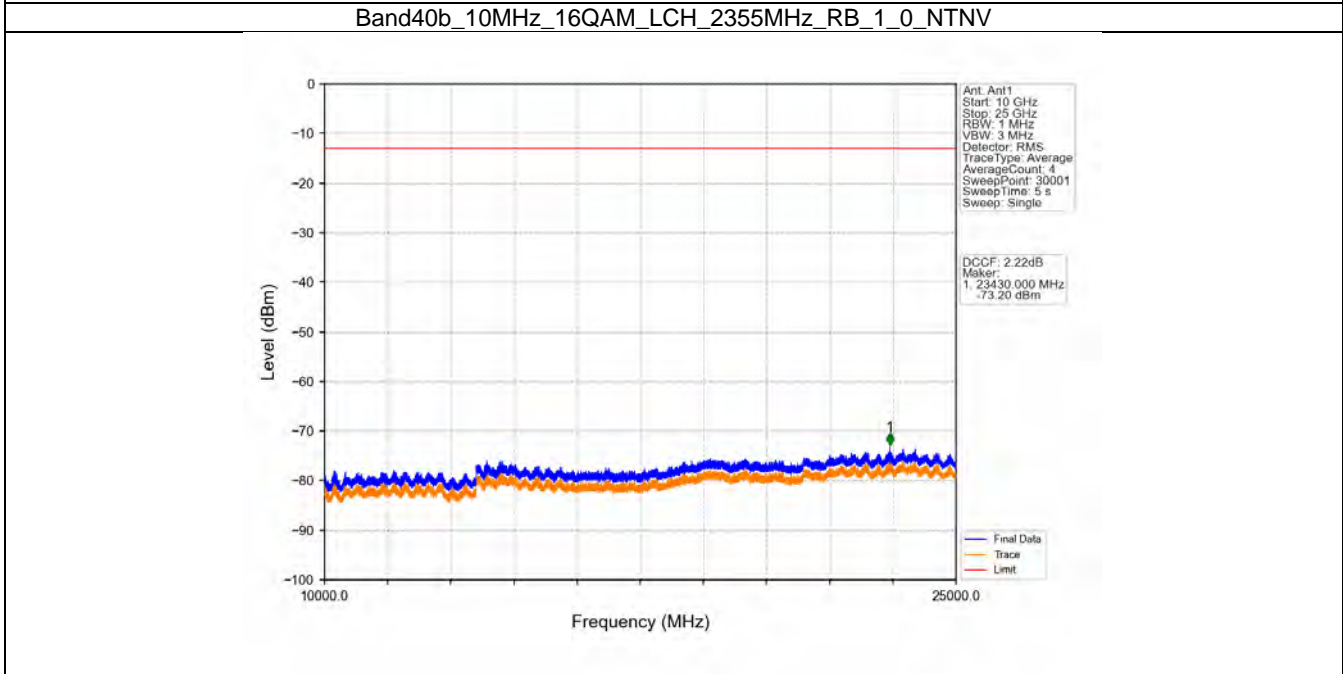
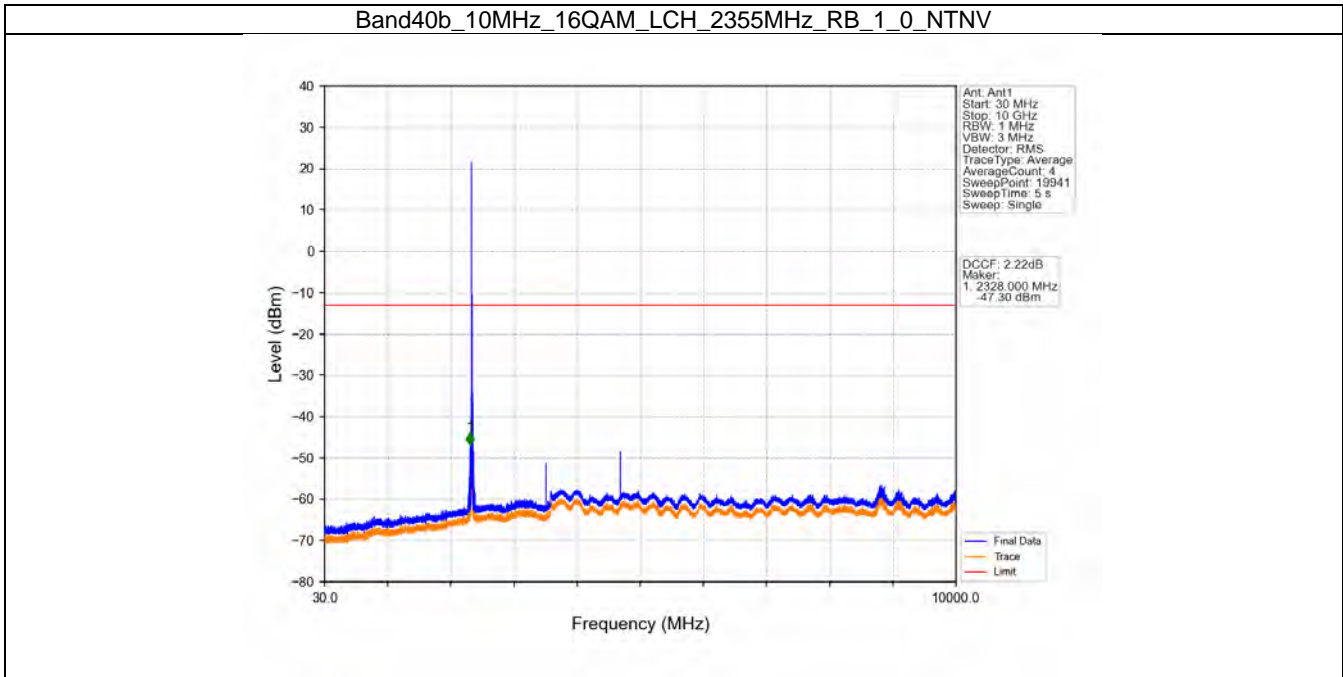


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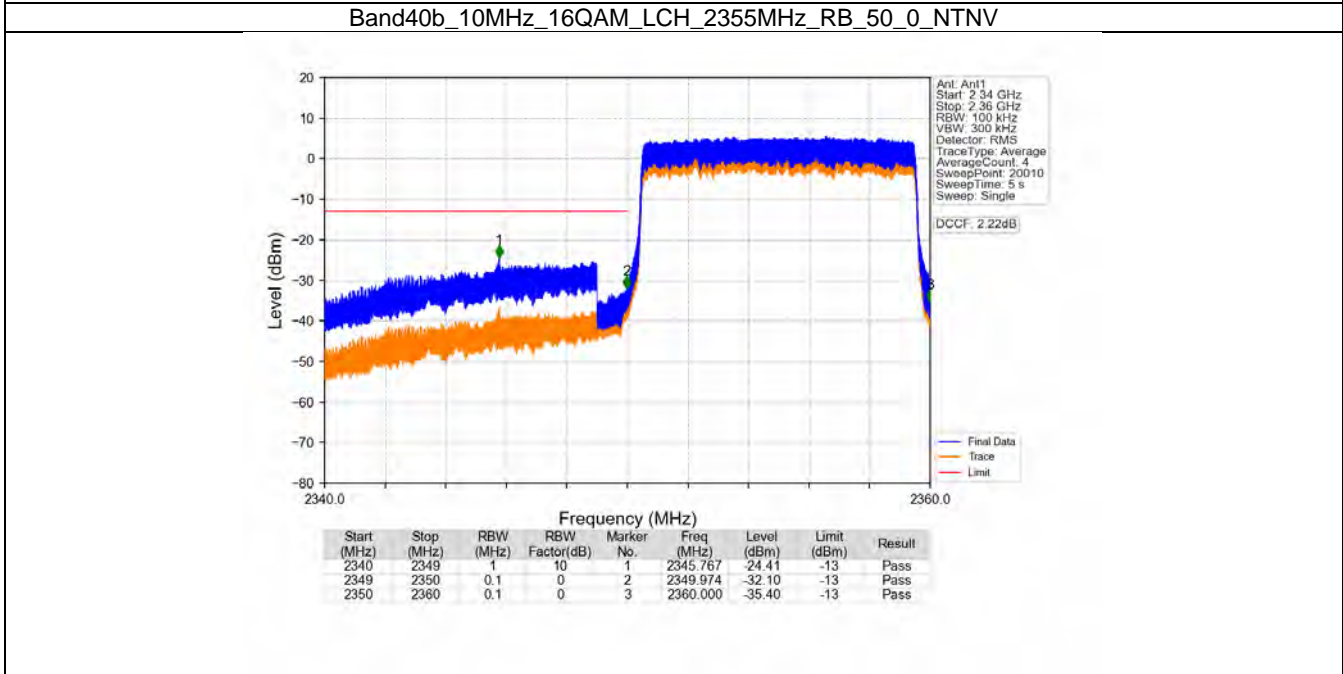
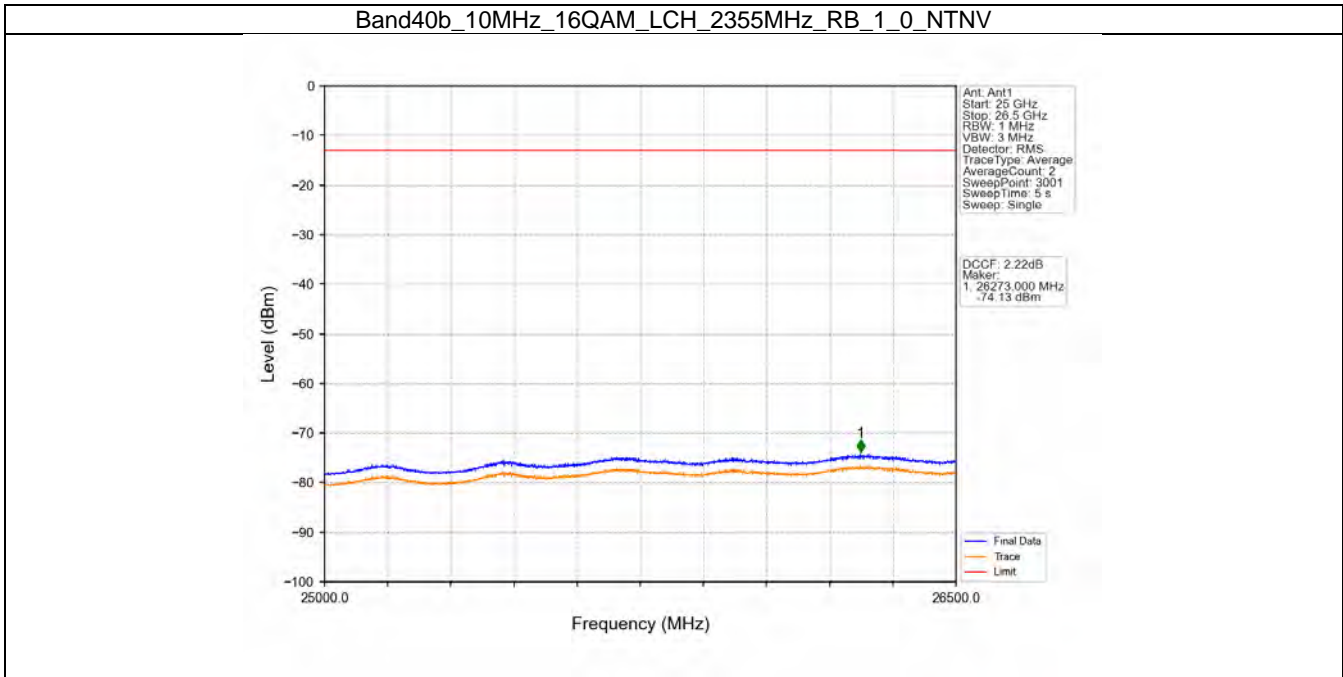


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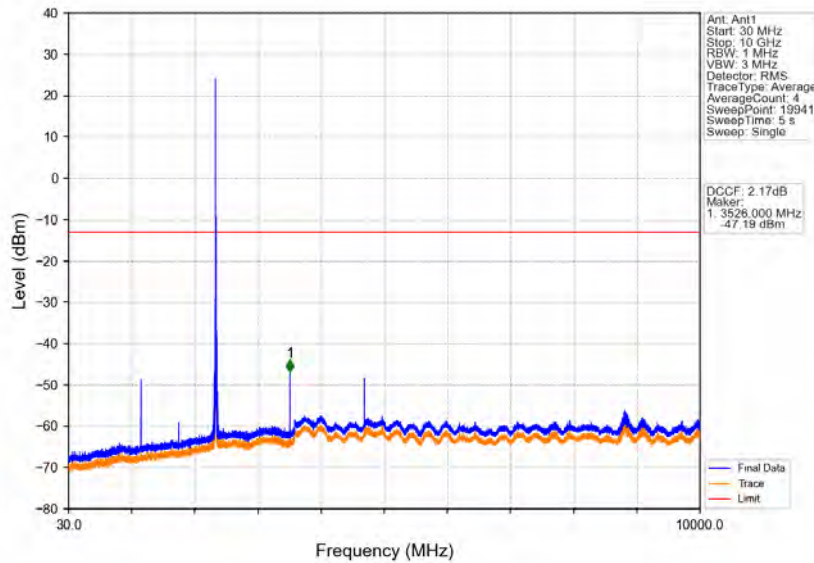
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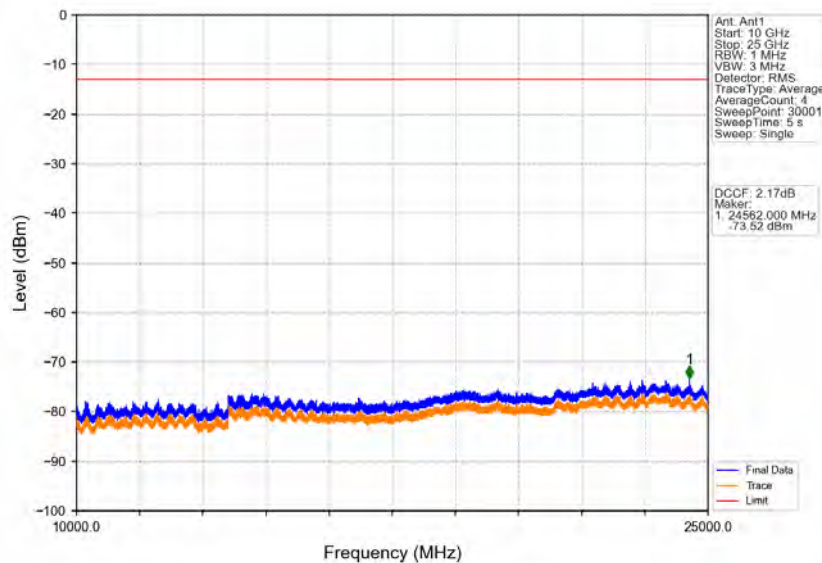
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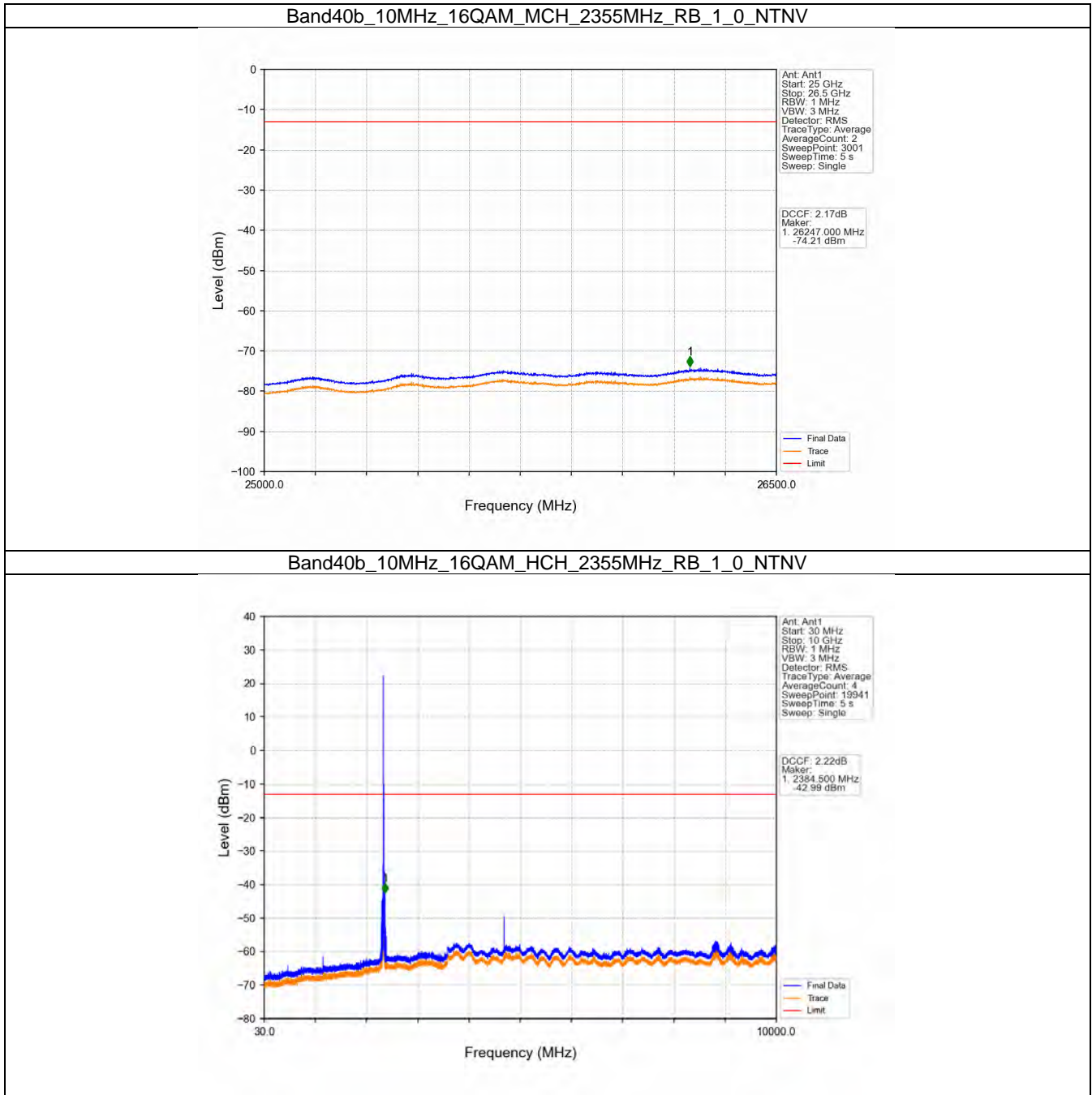
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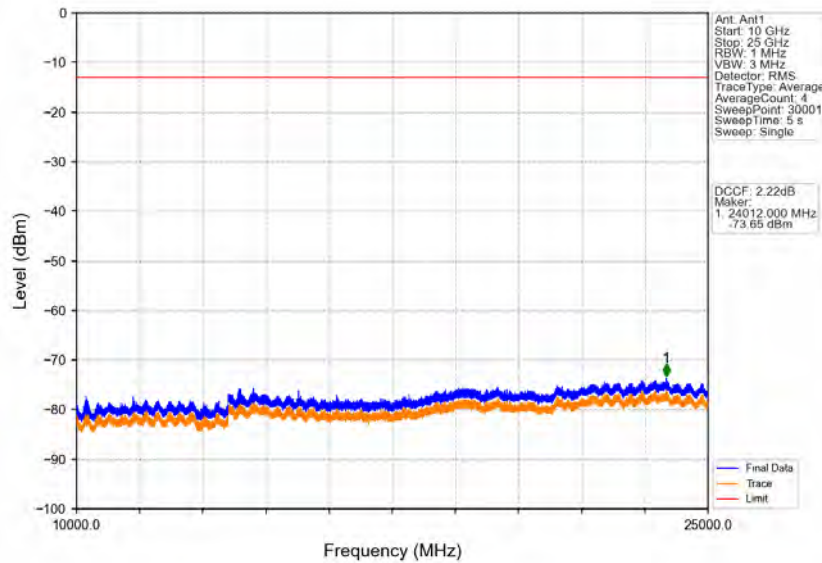
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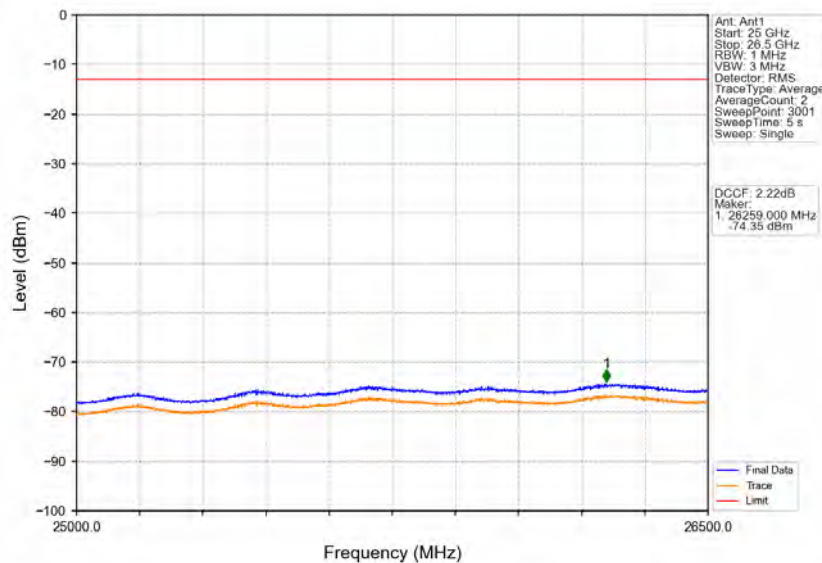
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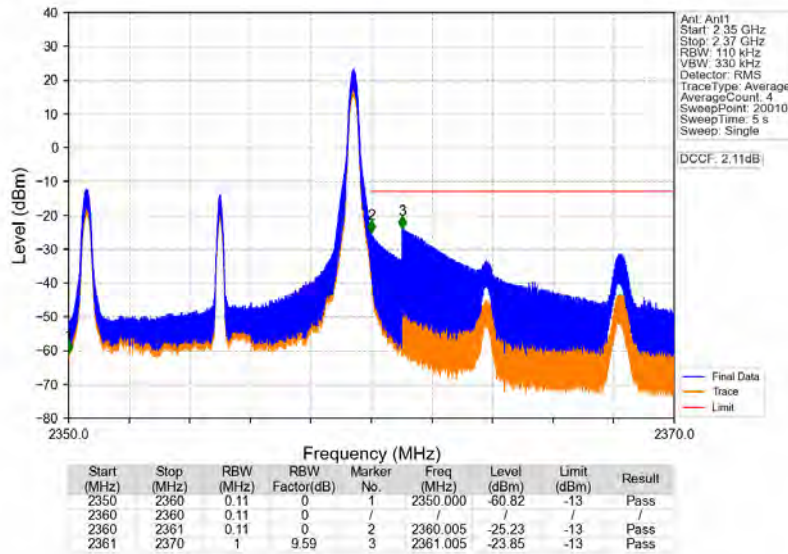
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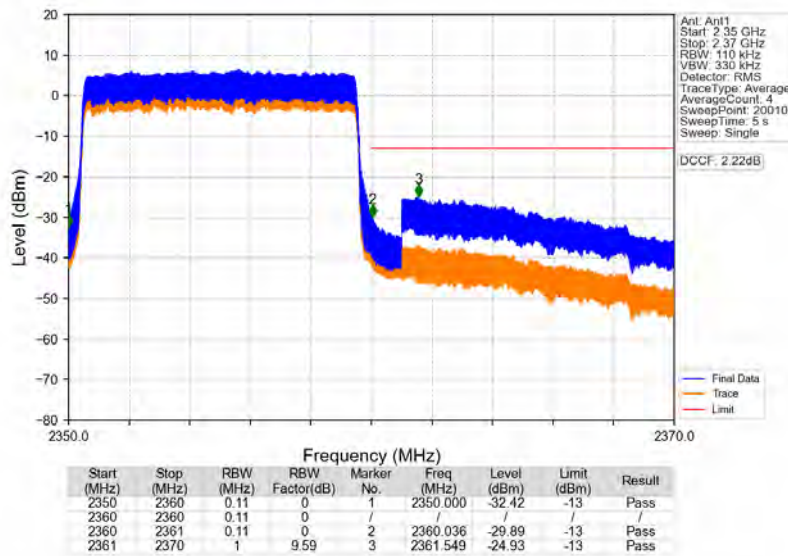
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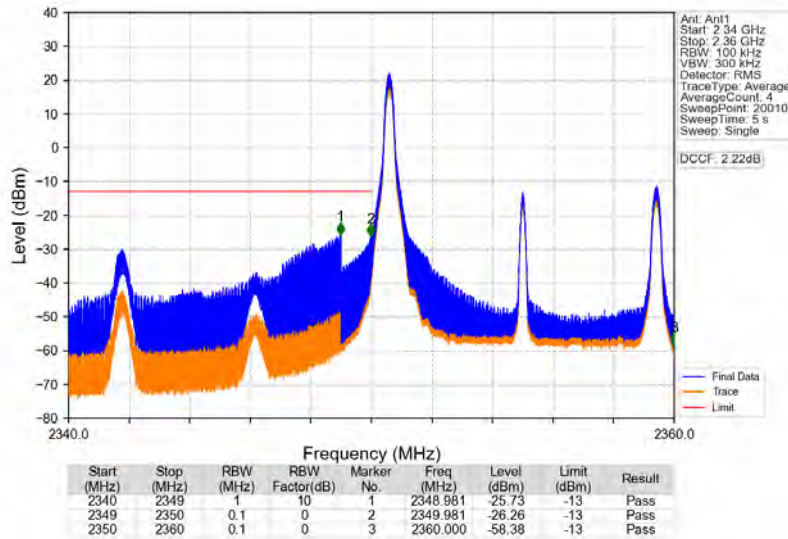
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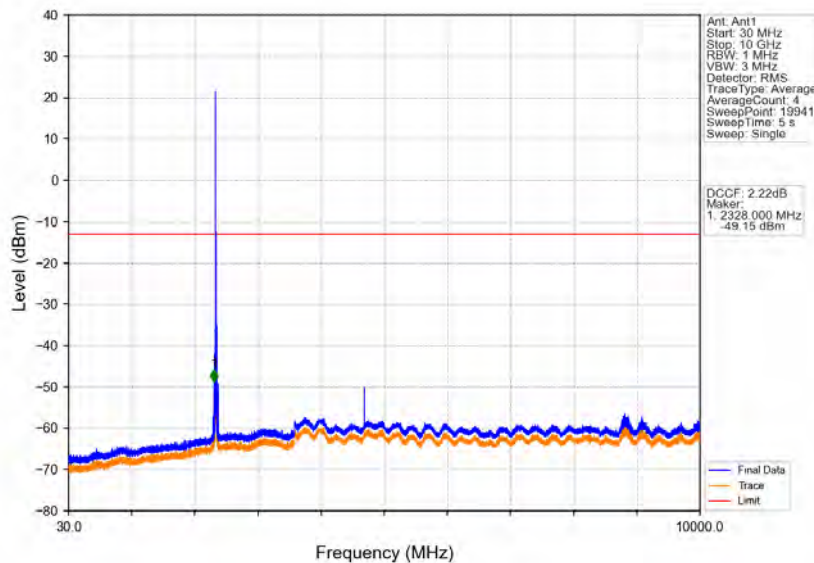
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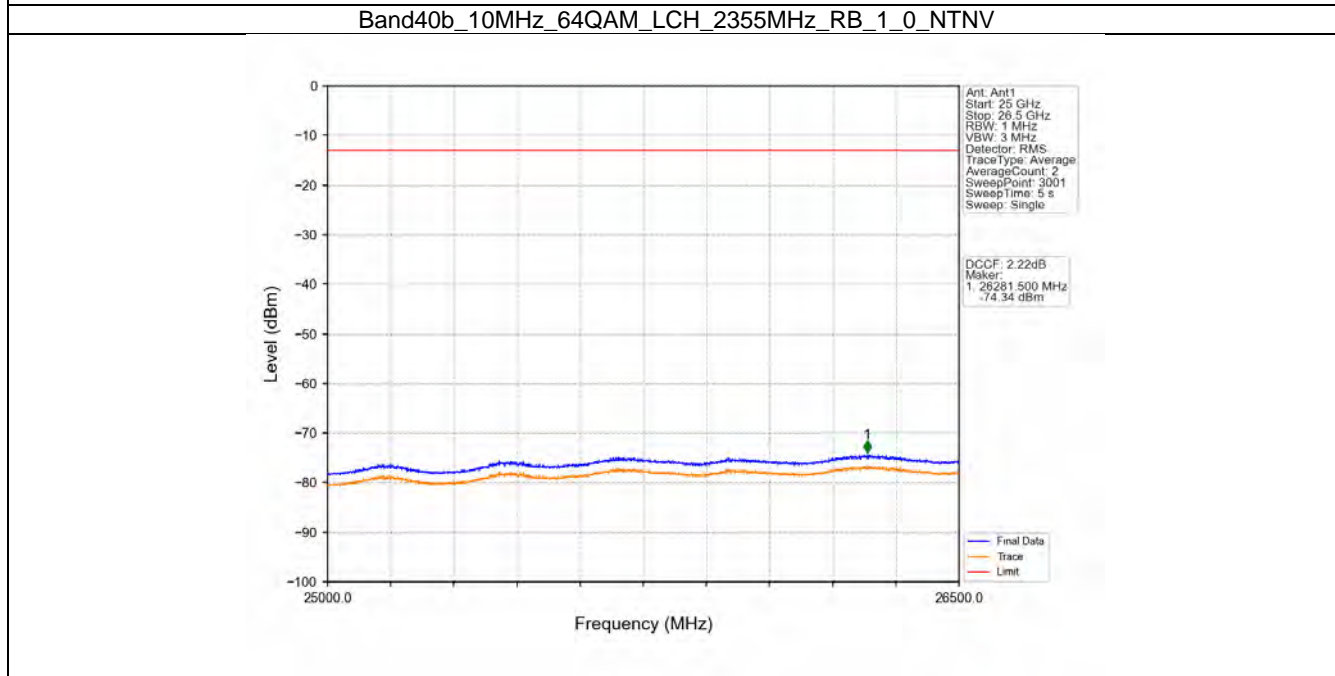
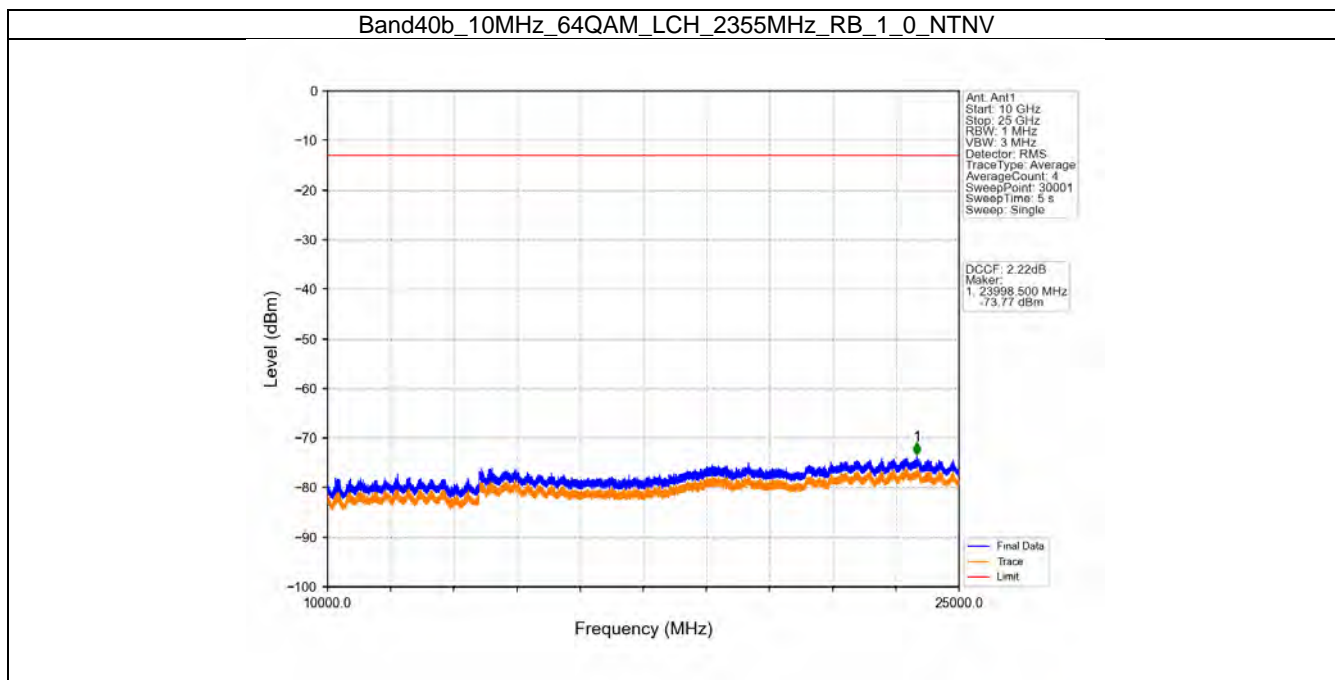
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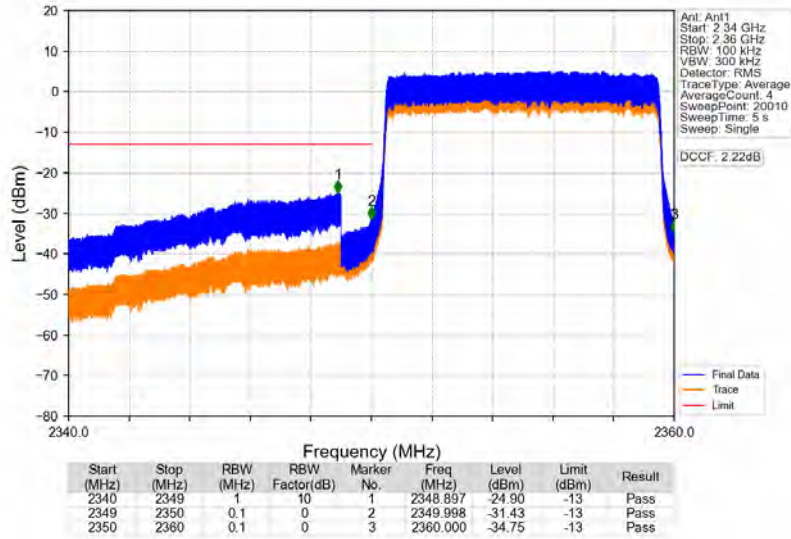
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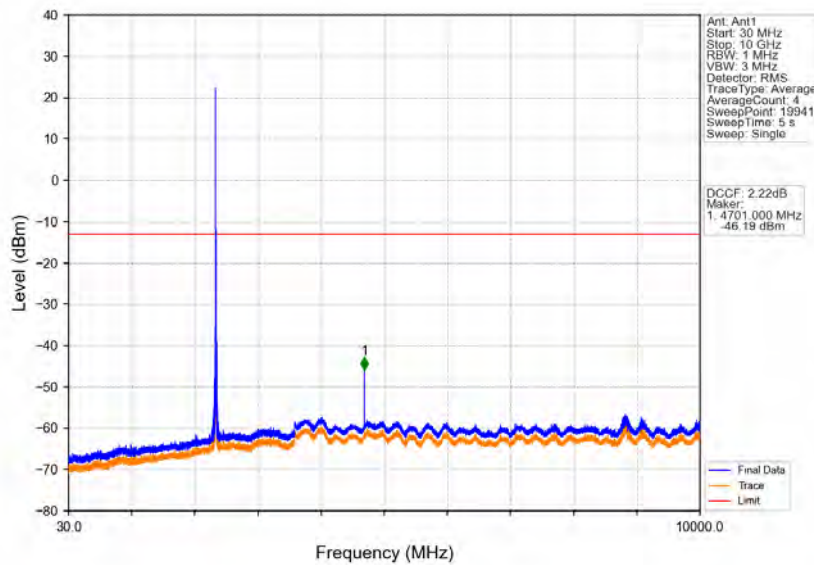
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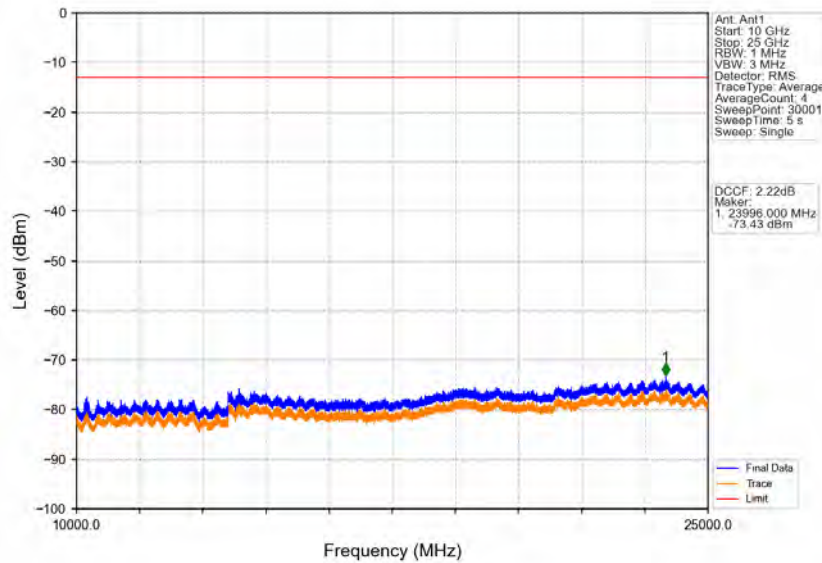
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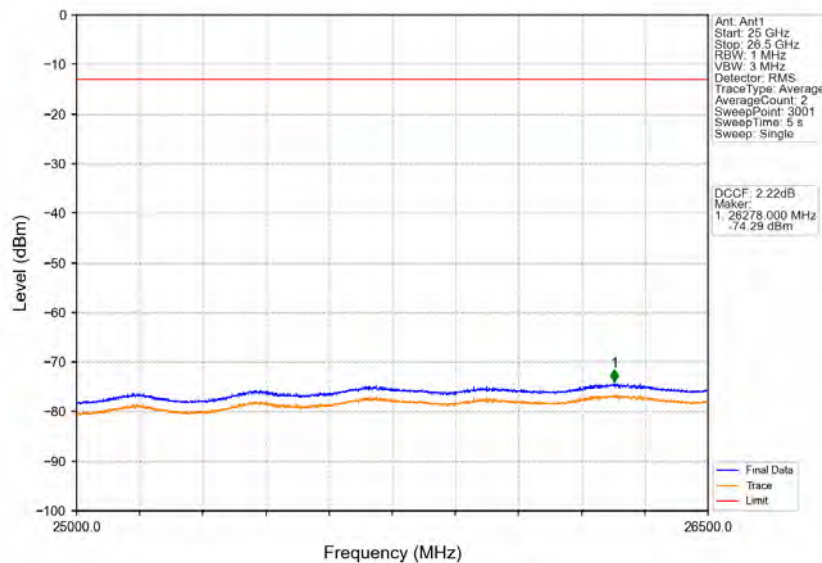
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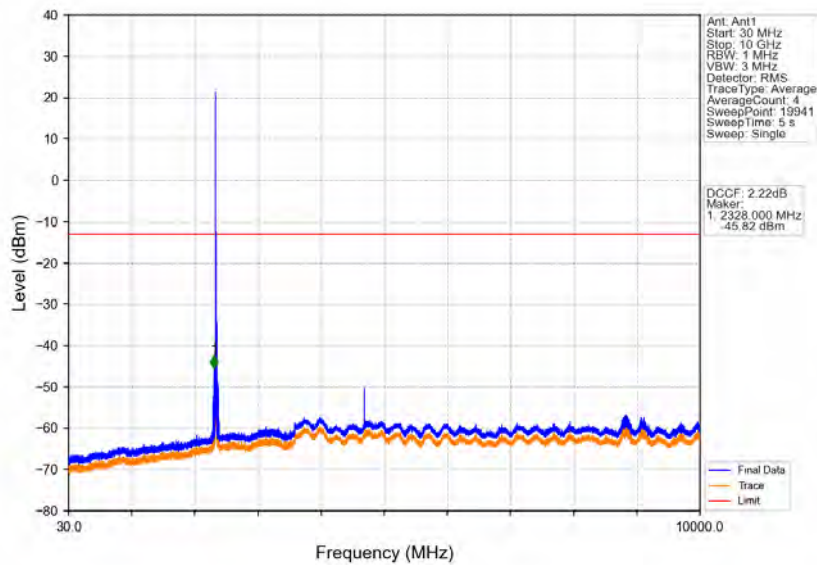
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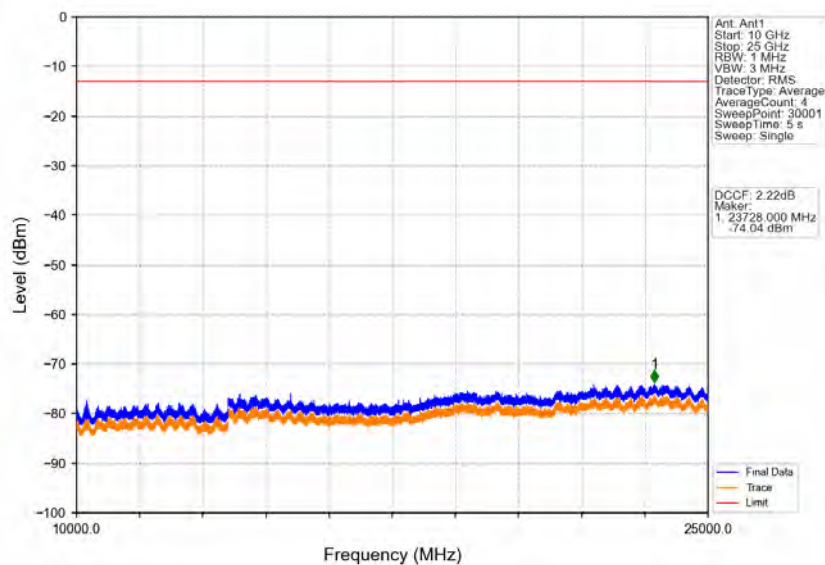
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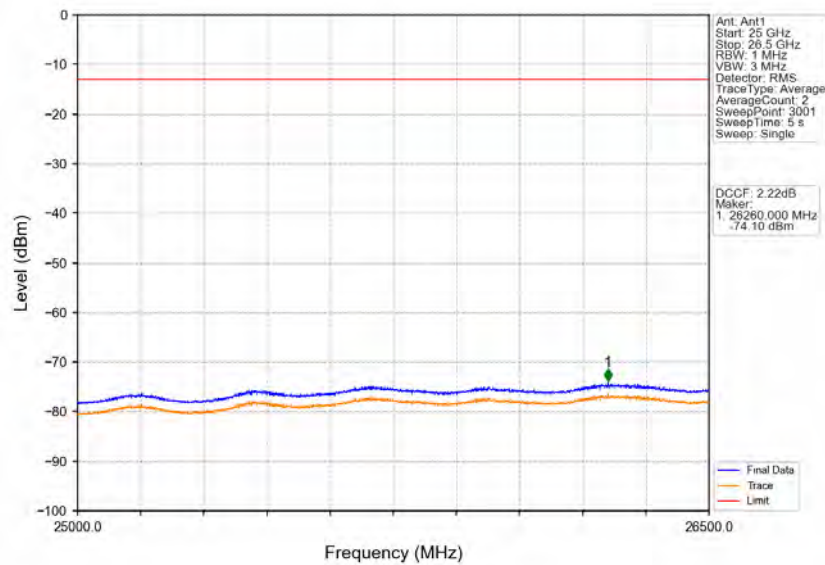
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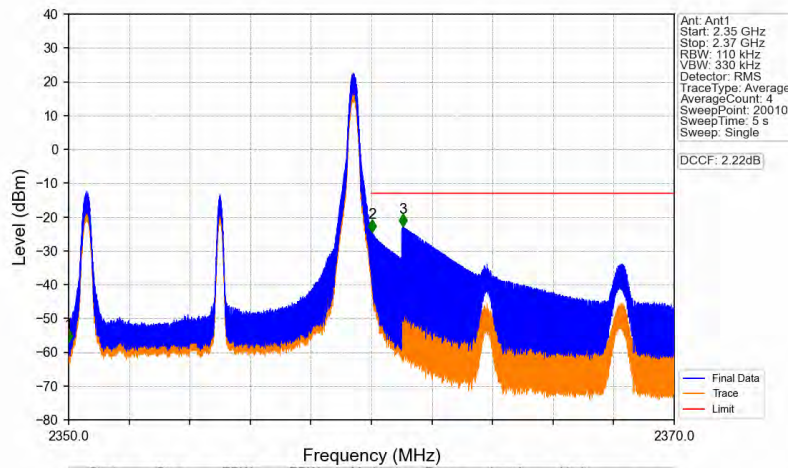
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Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2350	2360	0.11	0	1	2350.000	-56.89	-13	Pass
2360	2360	0.11	0	/	/	/	/	/
2360	2361	0.11	0	2	2360.021	-24.45	-13	Pass
2361	2370	1	9.59	3	2361.032	-22.83	-13	Pass



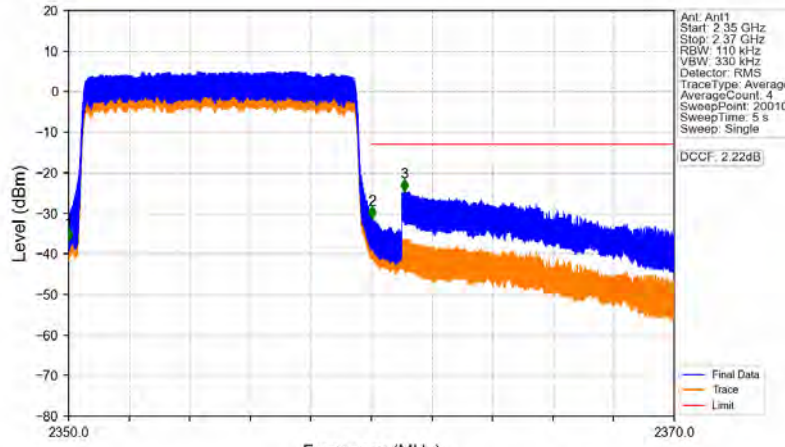
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Band40b_10MHz_64QAM_HCH_2355MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor (dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2350	2360	0.11	0	1	2350.000	-36.75	-13	Pass
2360	2361	0.11	0	2	2360.030	-31.28	-13	Pass
2361	2370	1	9.59	3	2361.091	-24.58	-13	Pass



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