

1. Effective (Isotropic) Radiated Power Output Data

1.1 B40a_5MHz_EIRP

1.1.1 Test Result

Band: 40a / Bandwidth: 5MHz / NTVN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2307.5	1	0	21.46	2.02	23.48	<=23.98	Pass
			13	21.88	2.02	23.90	<=23.98	Pass
			24	21.43	2.02	23.45	<=23.98	Pass
		12	0	20.50	2.02	22.52	<=23.98	Pass
			6	21.08	2.02	23.10	<=23.98	Pass
			13	20.69	2.02	22.71	<=23.98	Pass
		25	0	20.54	2.02	22.56	<=23.98	Pass
	2310	1	0	21.48	2.02	23.50	<=23.98	Pass
			13	21.69	2.02	23.71	<=23.98	Pass
			24	21.35	2.02	23.37	<=23.98	Pass
		12	0	20.76	2.02	22.78	<=23.98	Pass
			6	20.67	2.02	22.69	<=23.98	Pass
			13	20.70	2.02	22.72	<=23.98	Pass
	25	0	20.51	2.02	22.53	<=23.98	Pass	
	2312.5	1	0	21.64	2.02	23.66	<=23.98	Pass
			13	21.72	2.02	23.74	<=23.98	Pass
			24	21.73	2.02	23.75	<=23.98	Pass
		12	0	20.89	2.02	22.91	<=23.98	Pass
			6	20.79	2.02	22.81	<=23.98	Pass
			13	20.89	2.02	22.91	<=23.98	Pass
		25	0	20.52	2.02	22.54	<=23.98	Pass
16QAM	2307.5	1	0	20.56	2.02	22.58	<=23.98	Pass
			13	20.87	2.02	22.89	<=23.98	Pass
			24	20.75	2.02	22.77	<=23.98	Pass
		12	0	19.60	2.02	21.62	<=23.98	Pass
			6	19.89	2.02	21.91	<=23.98	Pass
			13	19.54	2.02	21.56	<=23.98	Pass
		25	0	19.87	2.02	21.89	<=23.98	Pass
	2310	1	0	20.70	2.02	22.72	<=23.98	Pass
			13	20.94	2.02	22.96	<=23.98	Pass
			24	21.27	2.02	23.29	<=23.98	Pass
		12	0	19.56	2.02	21.58	<=23.98	Pass
			6	19.65	2.02	21.67	<=23.98	Pass
	25	0	19.78	2.02	21.80	<=23.98	Pass	
	2312.5	1	0	21.33	2.02	23.35	<=23.98	Pass
			13	20.78	2.02	22.80	<=23.98	Pass
			24	20.45	2.02	22.47	<=23.98	Pass
		12	0	19.76	2.02	21.78	<=23.98	Pass
			6	19.85	2.02	21.87	<=23.98	Pass
25		0	19.70	2.02	21.72	<=23.98	Pass	
25	0	19.60	2.02	21.62	<=23.98	Pass		
Note1: EIRP=Conducted Power+Antenna Gain								

1.2 B40a_10MHz_EIRP

1.2.1 Test Result

Band: 40a / Bandwidth: 10MHz / NTV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2310	1	0	21.88	2.02	23.90	<=23.98	Pass
			25	21.79	2.02	23.81	<=23.98	Pass
			49	21.37	2.02	23.39	<=23.98	Pass
		25	0	20.61	2.02	22.63	<=23.98	Pass
			13	20.81	2.02	22.83	<=23.98	Pass
			25	21.14	2.02	23.16	<=23.98	Pass
		50	0	20.78	2.02	22.80	<=23.98	Pass
16QAM	2310	1	0	21.15	2.02	23.17	<=23.98	Pass
			25	21.40	2.02	23.42	<=23.98	Pass
			49	20.53	2.02	22.55	<=23.98	Pass
		25	0	19.91	2.02	21.93	<=23.98	Pass
			13	19.80	2.02	21.82	<=23.98	Pass
			25	19.69	2.02	21.71	<=23.98	Pass
		50	0	19.80	2.02	21.82	<=23.98	Pass

Note1: EIRP=Conducted Power+Antenna Gain

2. Frequency Stability

2.1 B40a_10MHz

2.1.1 Test Result

Band: 40a / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2310	50	0	20	3.60	-7.024	-0.0030	-2.5 to 2.5	Pass
					3.80	-5.565	-0.0024	-2.5 to 2.5	Pass
					4.35	-7.882	-0.0034	-2.5 to 2.5	Pass
				-30	3.80	-6.022	-0.0026	-2.5 to 2.5	Pass
				-20	3.80	-8.354	-0.0036	-2.5 to 2.5	Pass
				-10	3.80	-6.824	-0.0030	-2.5 to 2.5	Pass
				0	3.80	-6.938	-0.0030	-2.5 to 2.5	Pass
				10	3.80	-7.238	-0.0031	-2.5 to 2.5	Pass
				30	3.80	-5.994	-0.0026	-2.5 to 2.5	Pass
				40	3.80	-8.311	-0.0036	-2.5 to 2.5	Pass
				50	3.80	-8.683	-0.0038	-2.5 to 2.5	Pass

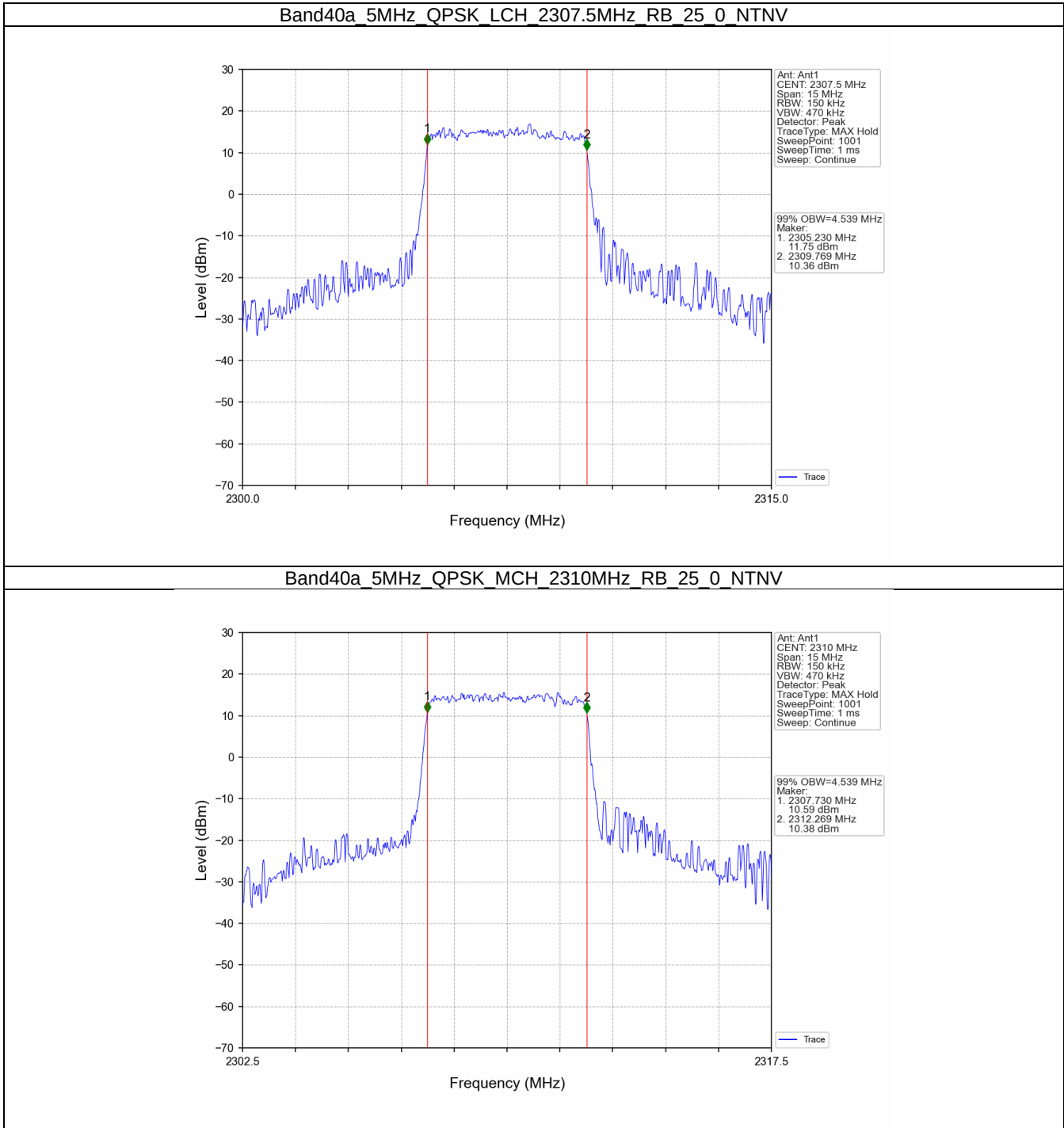
3. 99% & 26dB Bandwidth

3.1 Band40a_OBW

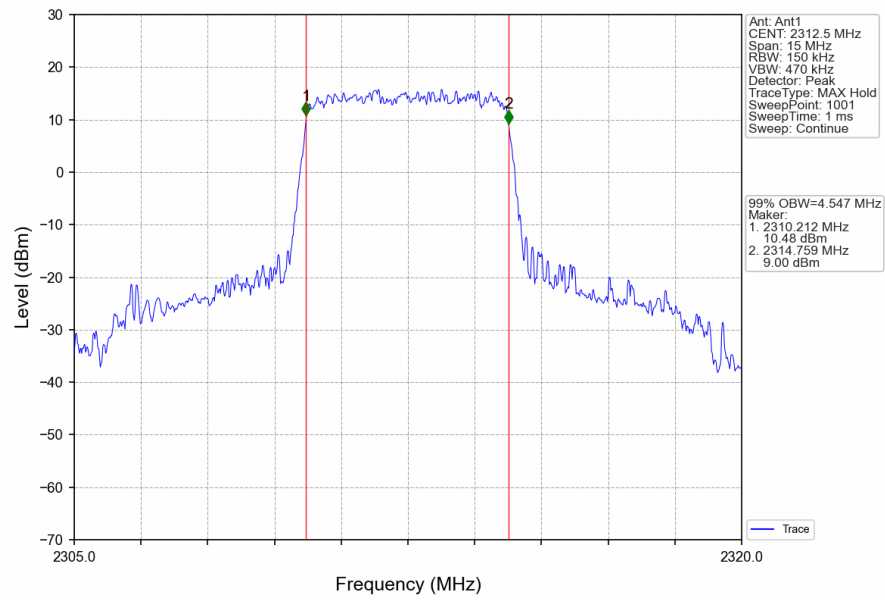
3.1.1 Test Result

Band: 40a / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2307.5	25	0	4.539	/	Pass
		2310	25	0	4.539	/	Pass
		2312.5	25	0	4.547	/	Pass
	16QAM	2307.5	25	0	4.551	/	Pass
		2310	25	0	4.527	/	Pass
		2312.5	25	0	4.541	/	Pass
10	QPSK	2310	50	0	9.046	/	Pass
	16QAM	2310	50	0	9.039	/	Pass

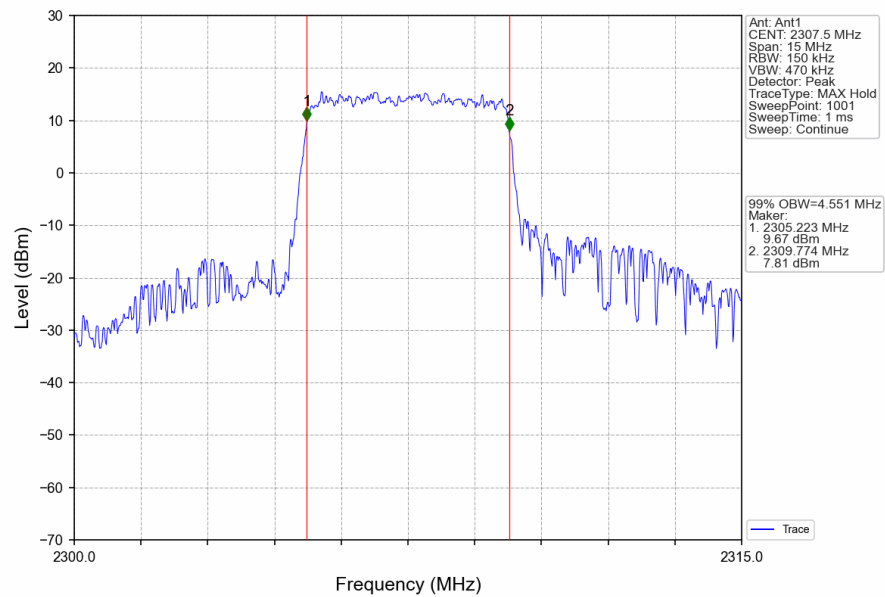
3.1.2 Test Graph



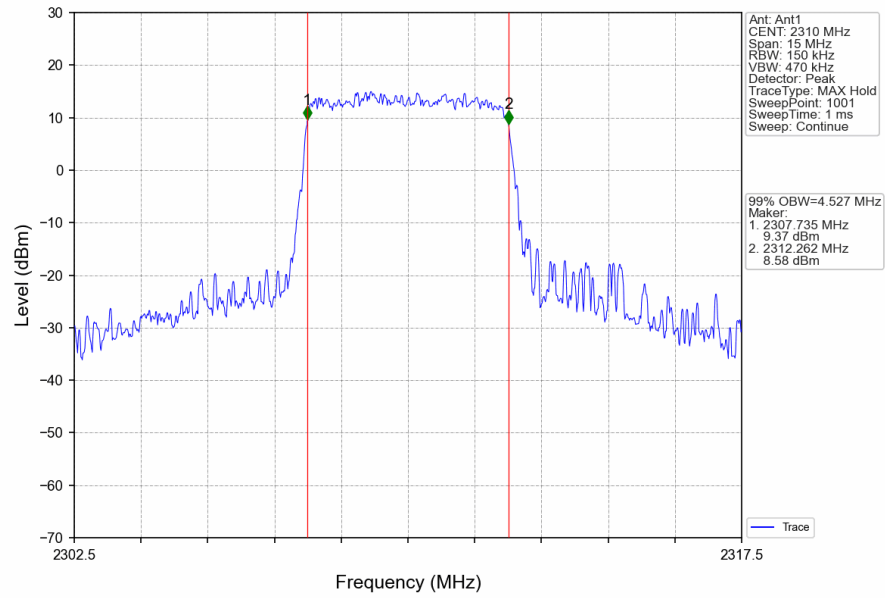
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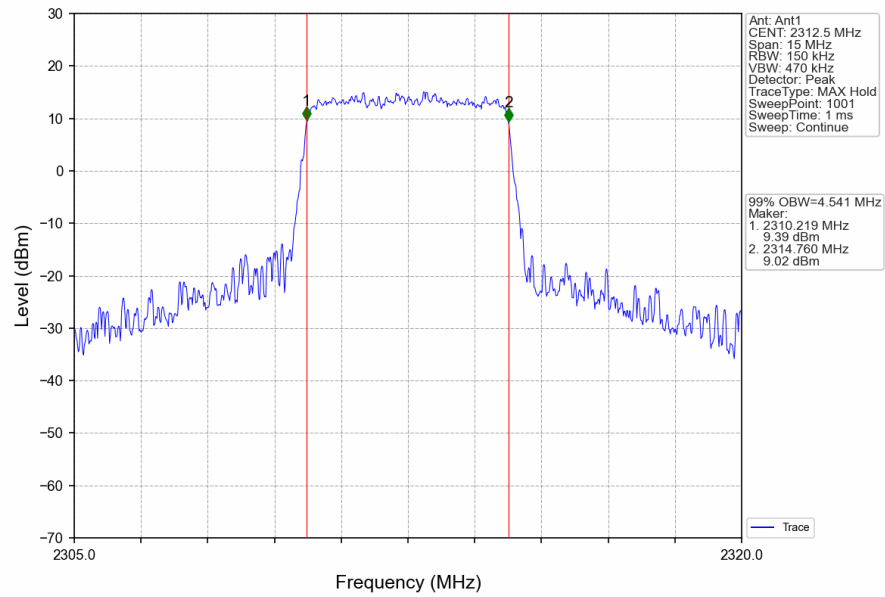
Band40a_5MHz_16QAM_LCH_2307.5MHz_RB_25_0_NTNV



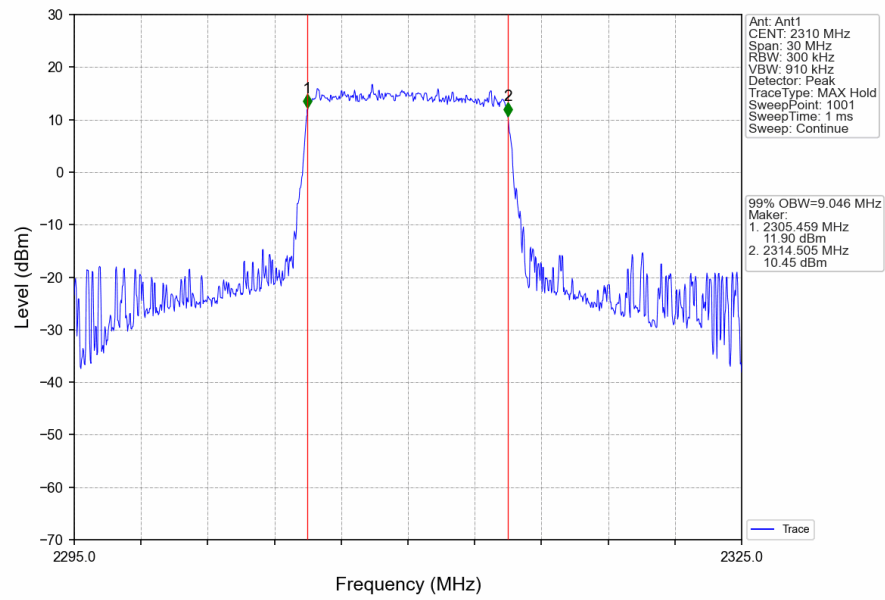
Band40a_5MHz_16QAM_MCH_2310MHz_RB_25_0_NTNV



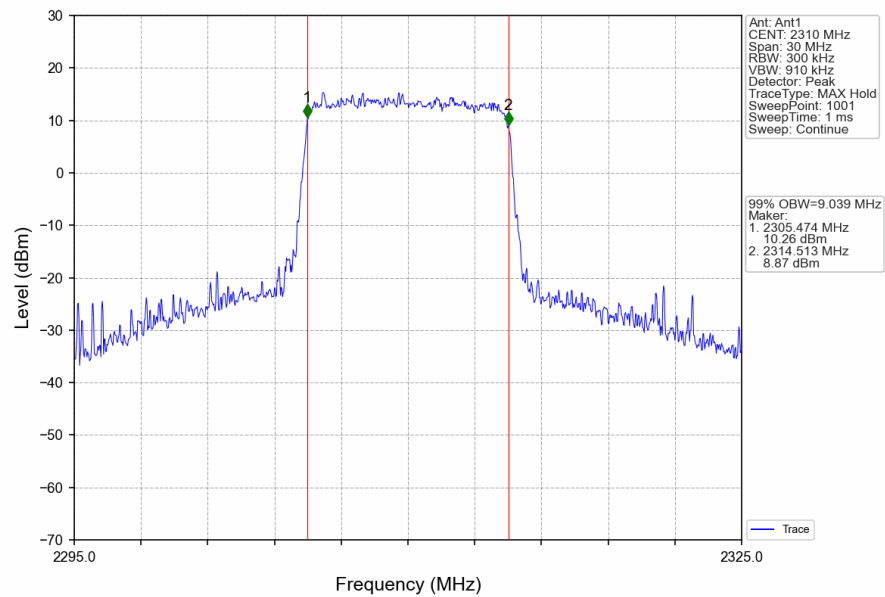
Band40a_5MHz_16QAM_HCH_2312.5MHz_RB_25_0_NTNV



Band40a_10MHz_QPSK_MCH_2310MHz_RB_50_0_NTNV



Band40a_10MHz_16QAM_MCH_2310MHz_RB_50_0_NTNV

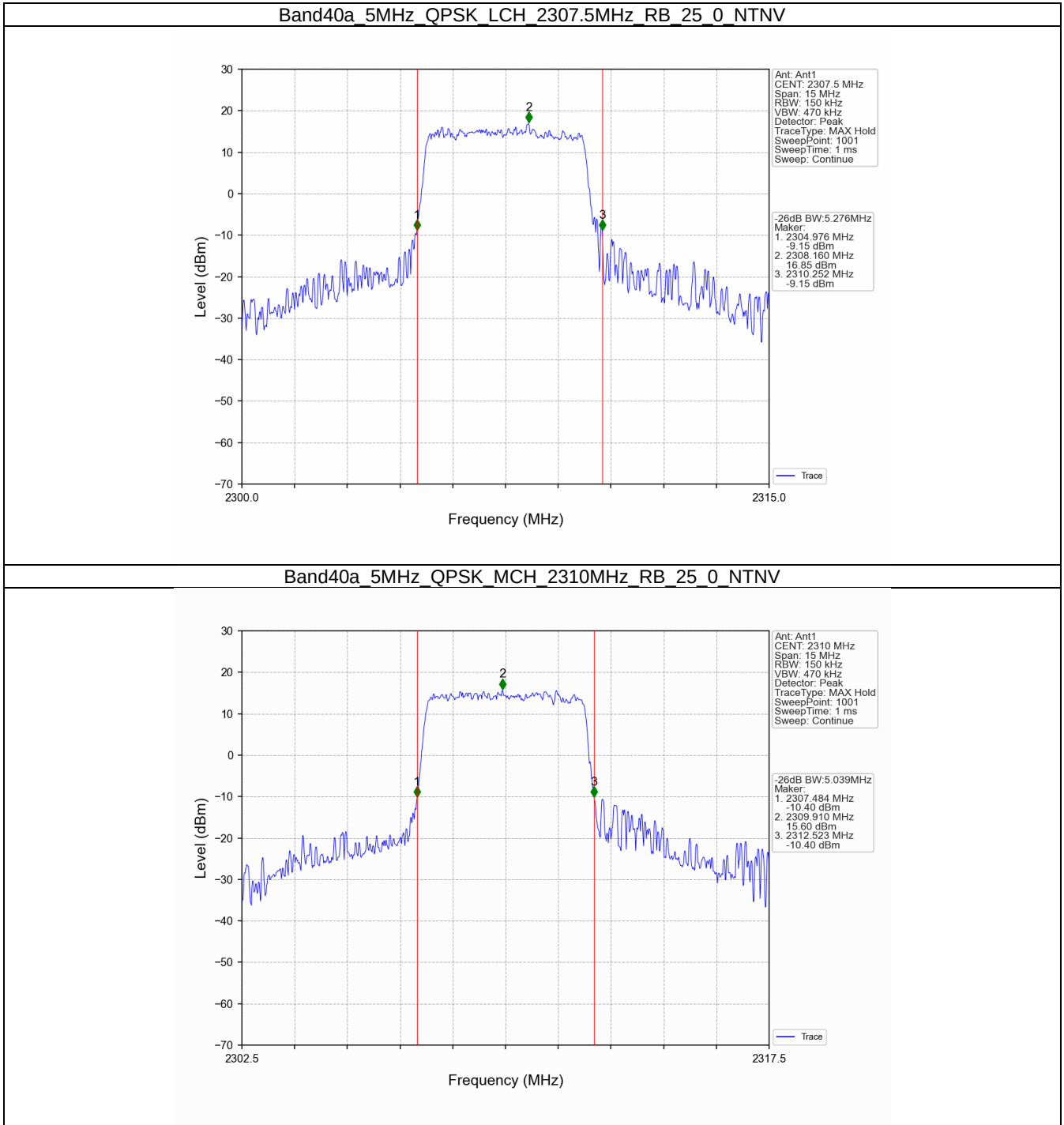


3.2 Band40a_XDB

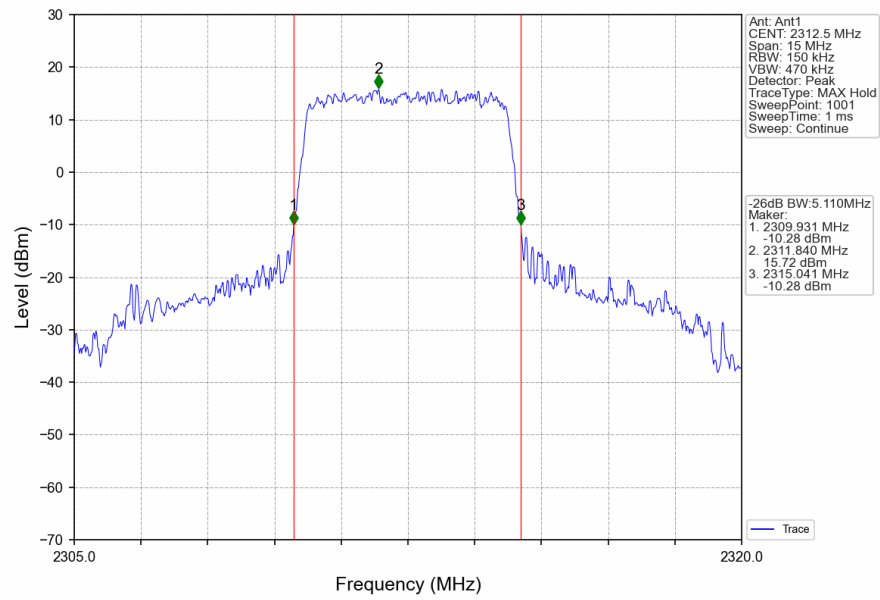
3.2.1 Test Result

Band: 40a / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2307.5	25	0	5.276	/	Pass
		2310	25	0	5.039	/	Pass
		2312.5	25	0	5.110	/	Pass
	16QAM	2307.5	25	0	5.434	/	Pass
		2310	25	0	5.070	/	Pass
		2312.5	25	0	5.086	/	Pass
10	QPSK	2310	50	0	10.078	/	Pass
	16QAM	2310	50	0	9.939	/	Pass

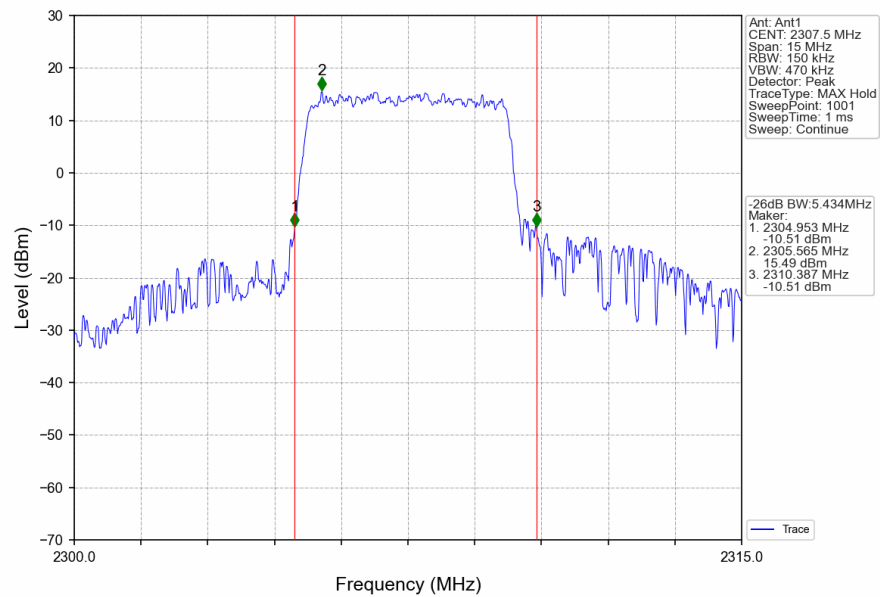
3.2.2 Test Graph



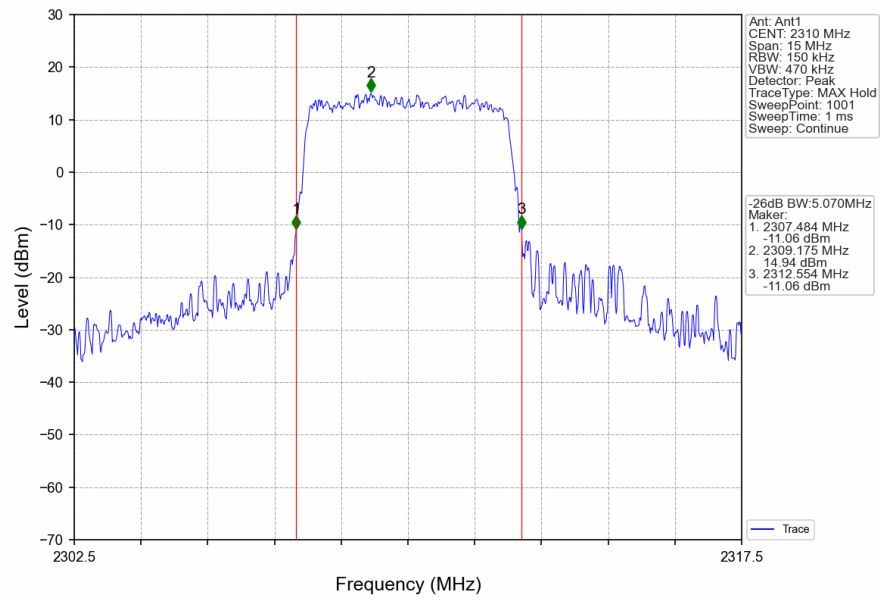
Band40a_5MHz_QPSK_HCH_2312.5MHz_RB_25_0_NTNV



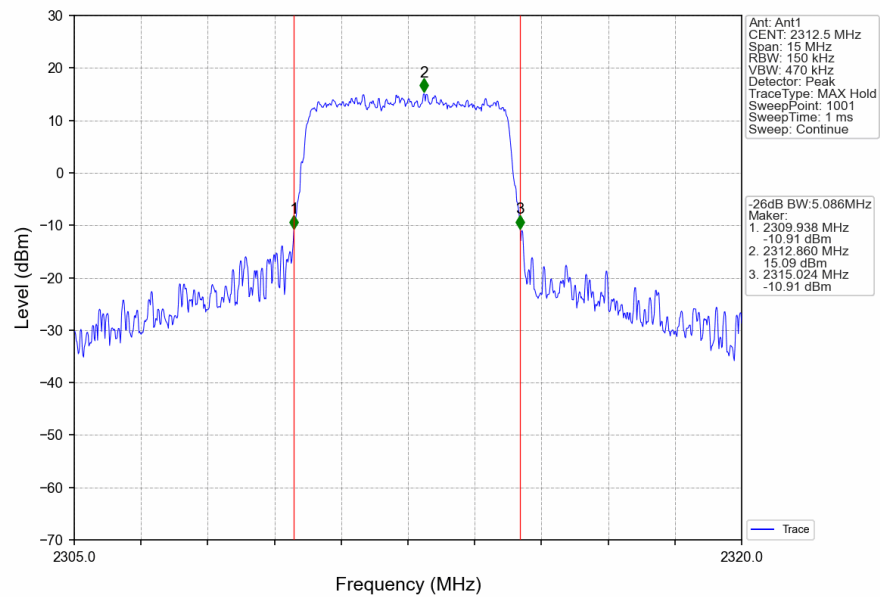
Band40a_5MHz_16QAM_LCH_2307.5MHz_RB_25_0_NTNV



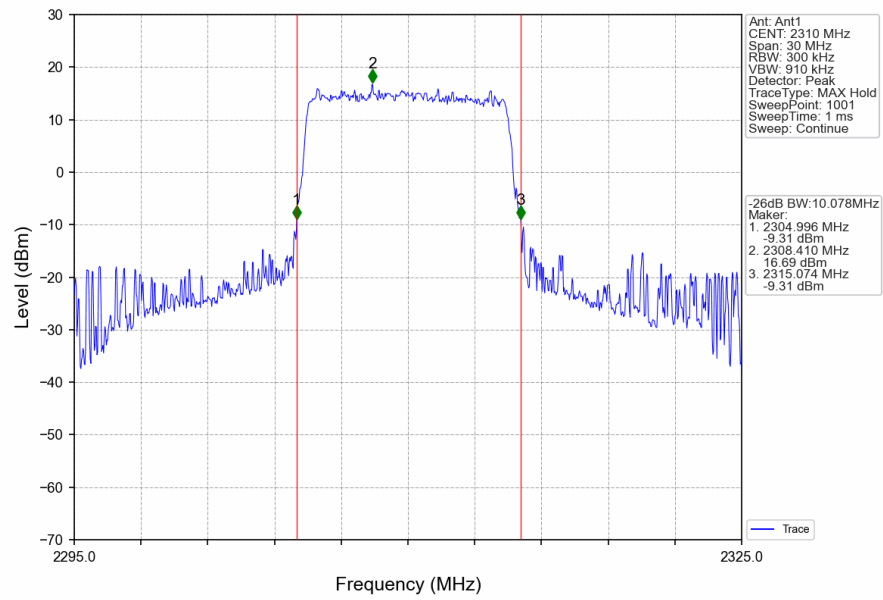
Band40a 5MHz 16QAM MCH 2310MHz RB 25 0 NTN



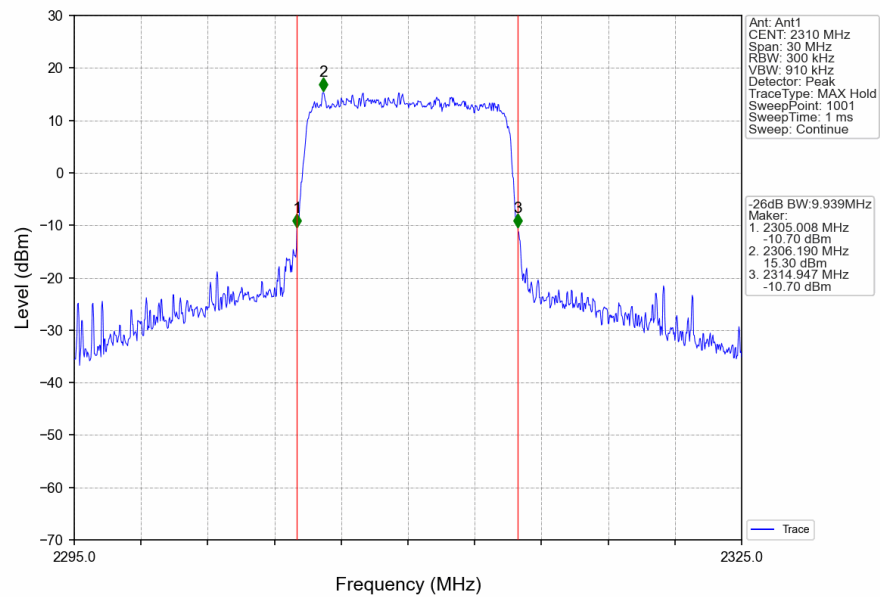
Band40a 5MHz 16QAM HCH 2312.5MHz RB 25 0 NTN



Band40a_10MHz_QPSK_MCH_2310MHz_RB_50_0_NTNV



Band40a_10MHz_16QAM_MCH_2310MHz_RB_50_0_NTNV



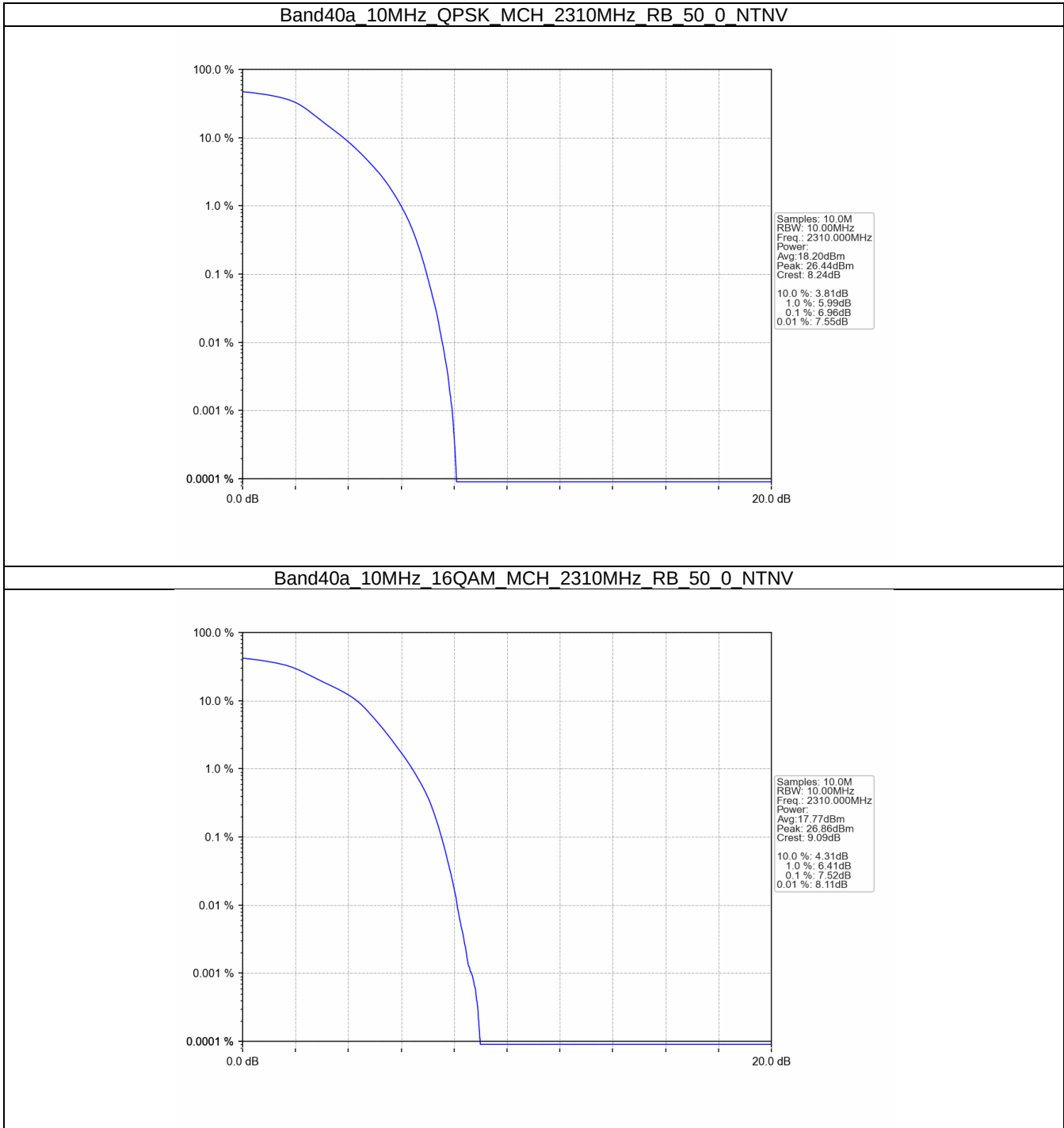
4. Peak-Average Ratio

4.1 B40a_10MHz

4.1.1 Test Result

Band: 40a / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2310	50	0	6.96	<=13	Pass
16QAM	2310	50	0	7.52	<=13	Pass

4.1.2 Test Graph



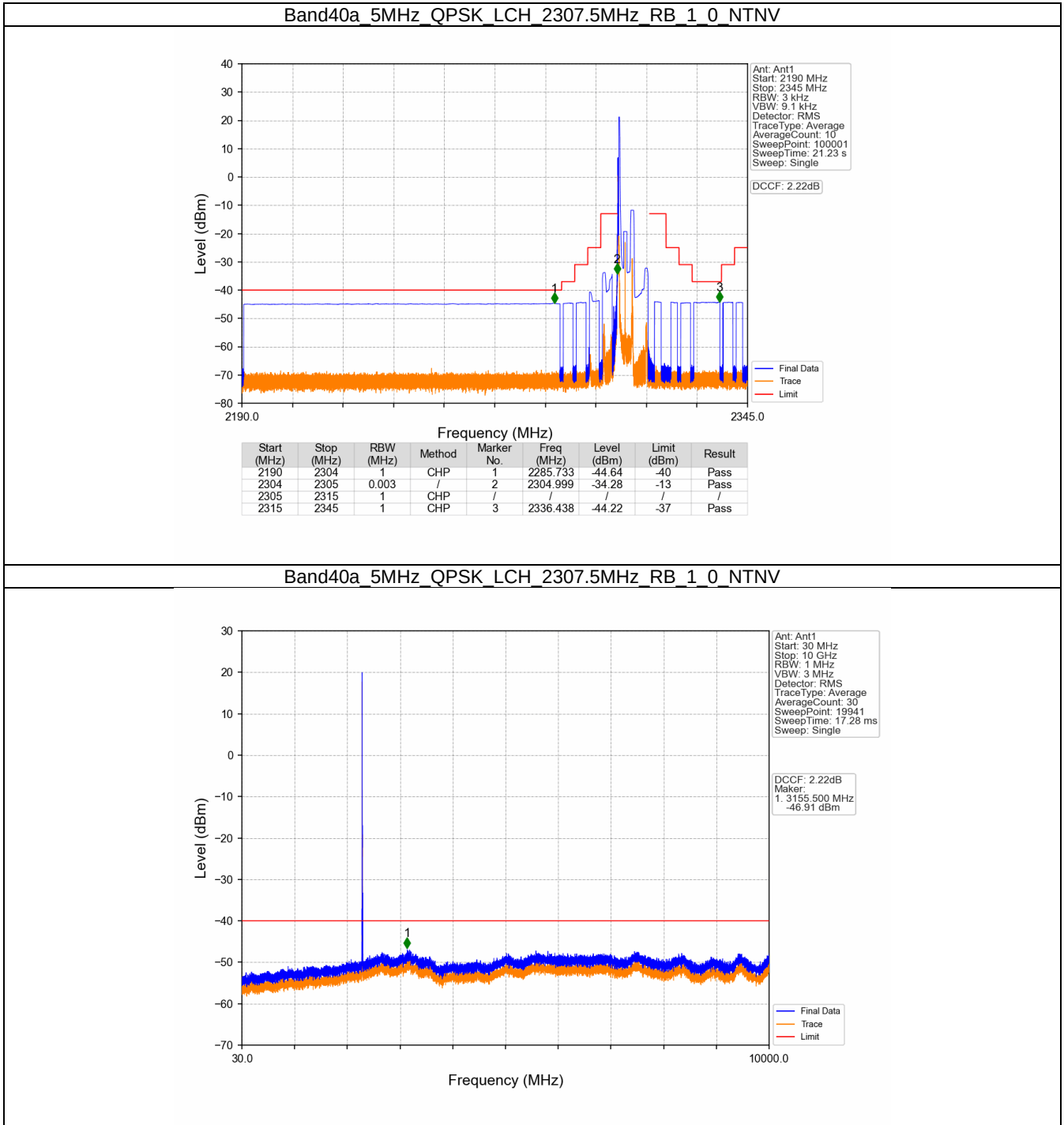
5. Spurious Emission

5.1 B40a_5MHz

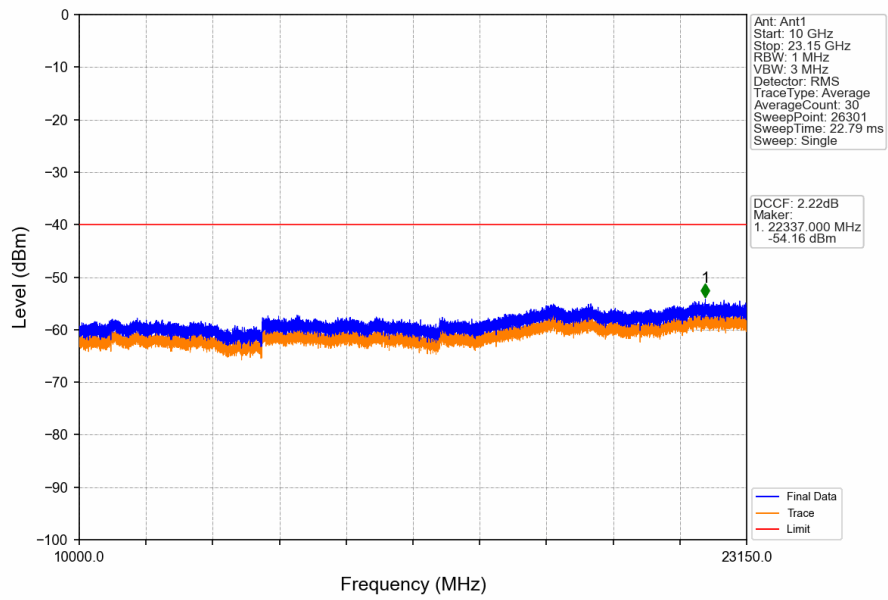
5.1.1 Test Result

Band: 40a / Bandwidth: 5MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2307.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	2310	1	0	Refer To Test Graph		Pass
		2312.5	1	0	Refer To Test Graph	
	24			Refer To Test Graph		Pass
	25		0	Refer To Test Graph		Pass

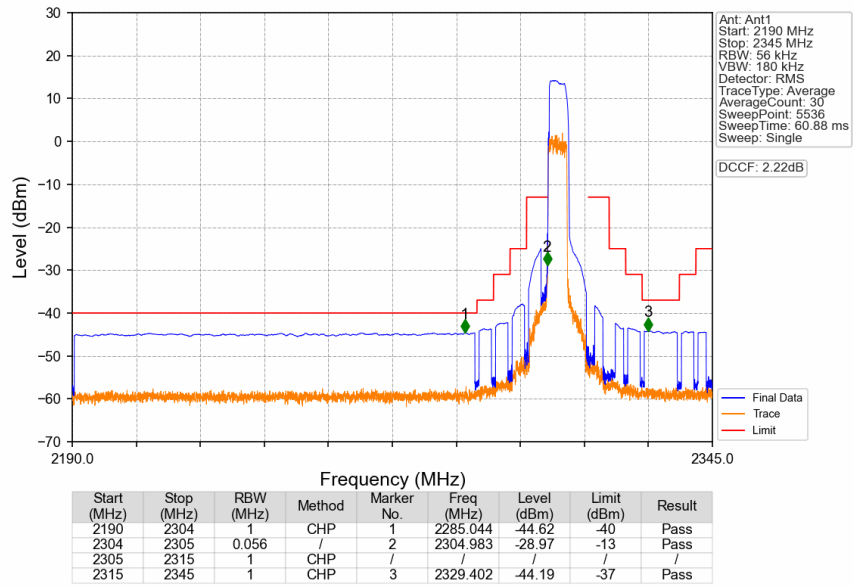
5.1.2 Test Graph



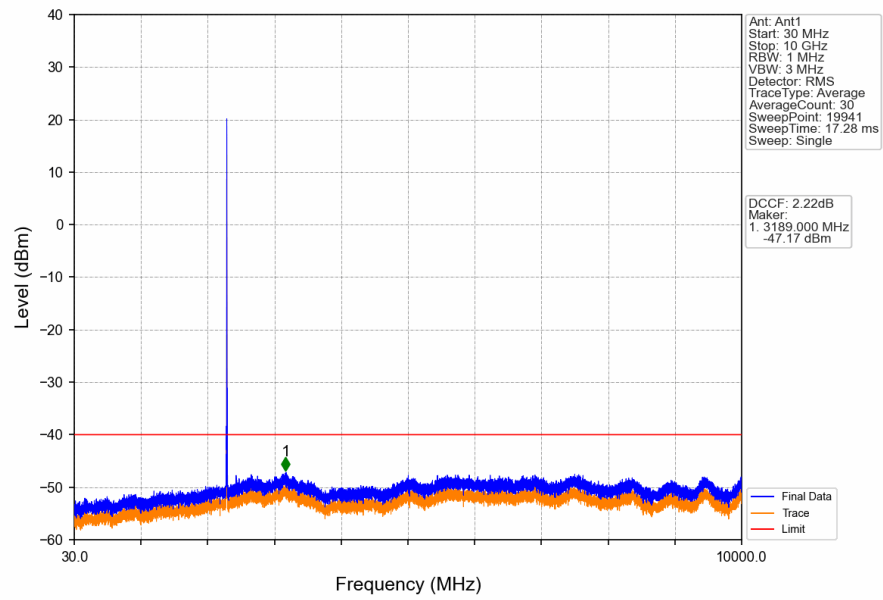
Band40a_5MHz_QPSK_LCH_2307.5MHz_RB_1_0_NTNV



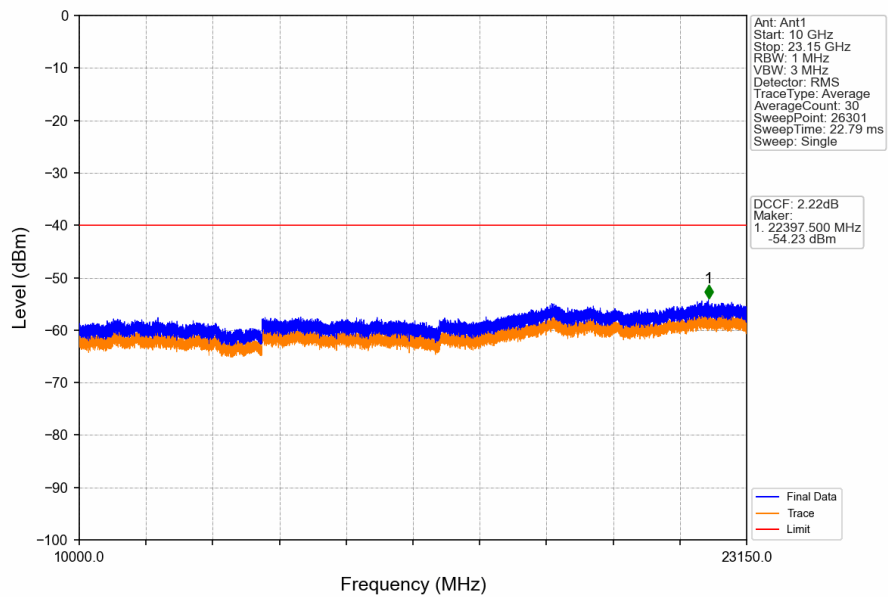
Band40a_5MHz_QPSK_LCH_2307.5MHz_RB_25_0_NTNV



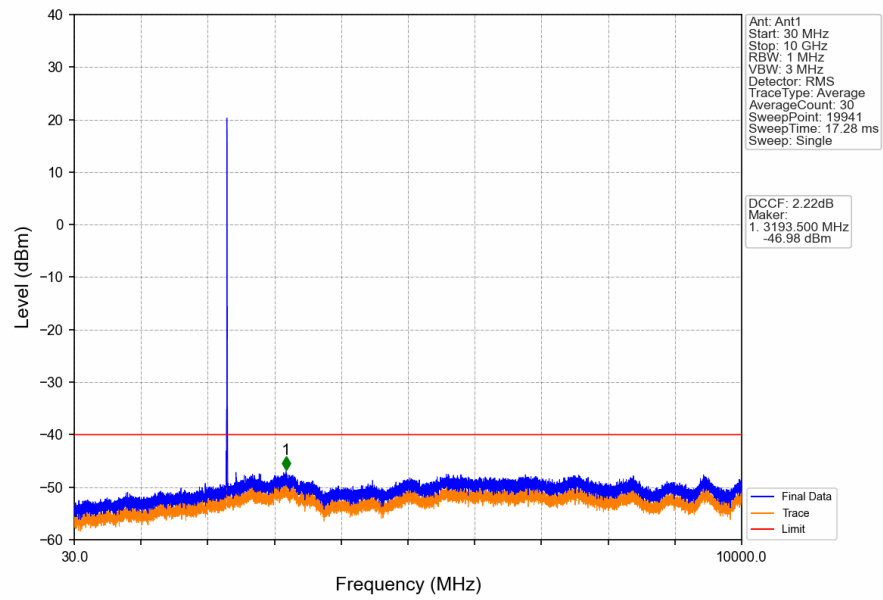
Band40a_5MHz_QPSK_MCH_2310MHz_RB_1_0_NTNV



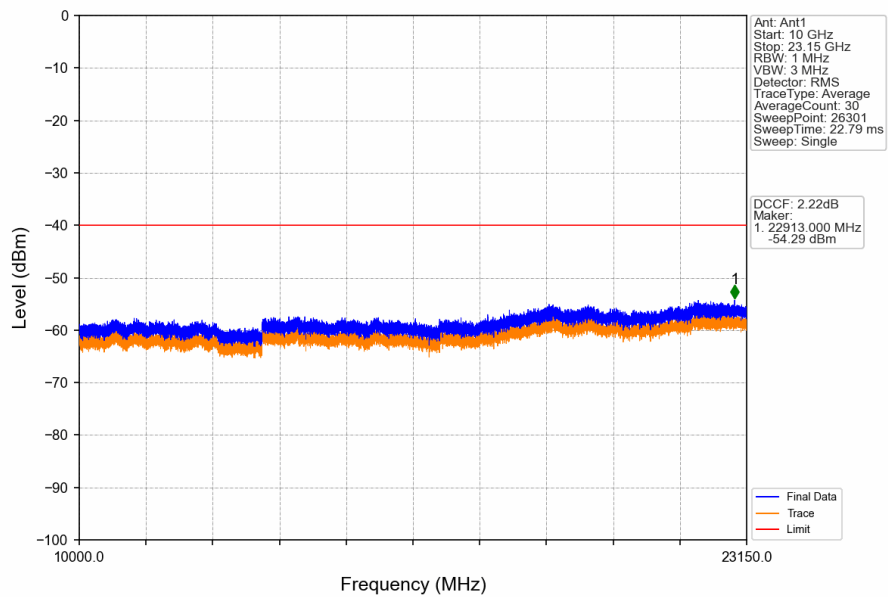
Band40a_5MHz_QPSK_MCH_2310MHz_RB_1_0_NTNV



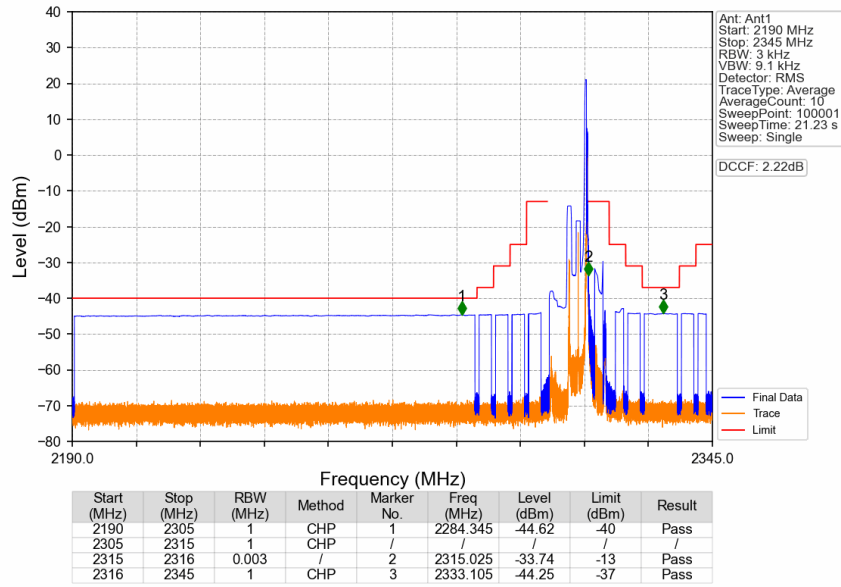
Band40a_5MHz_QPSK_HCH_2312.5MHz_RB_1_0_NTNV



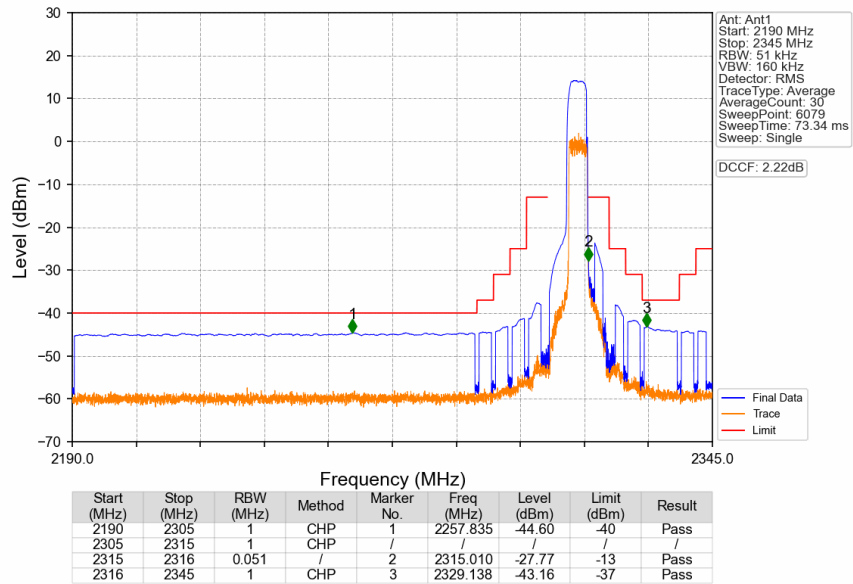
Band40a_5MHz_QPSK_HCH_2312.5MHz_RB_1_0_NTNV



Band40a_5MHz_QPSK_HCH_2312.5MHz_RB_1_24_NTNV



Band40a_5MHz_QPSK_HCH_2312.5MHz_RB_25_0_NTNV

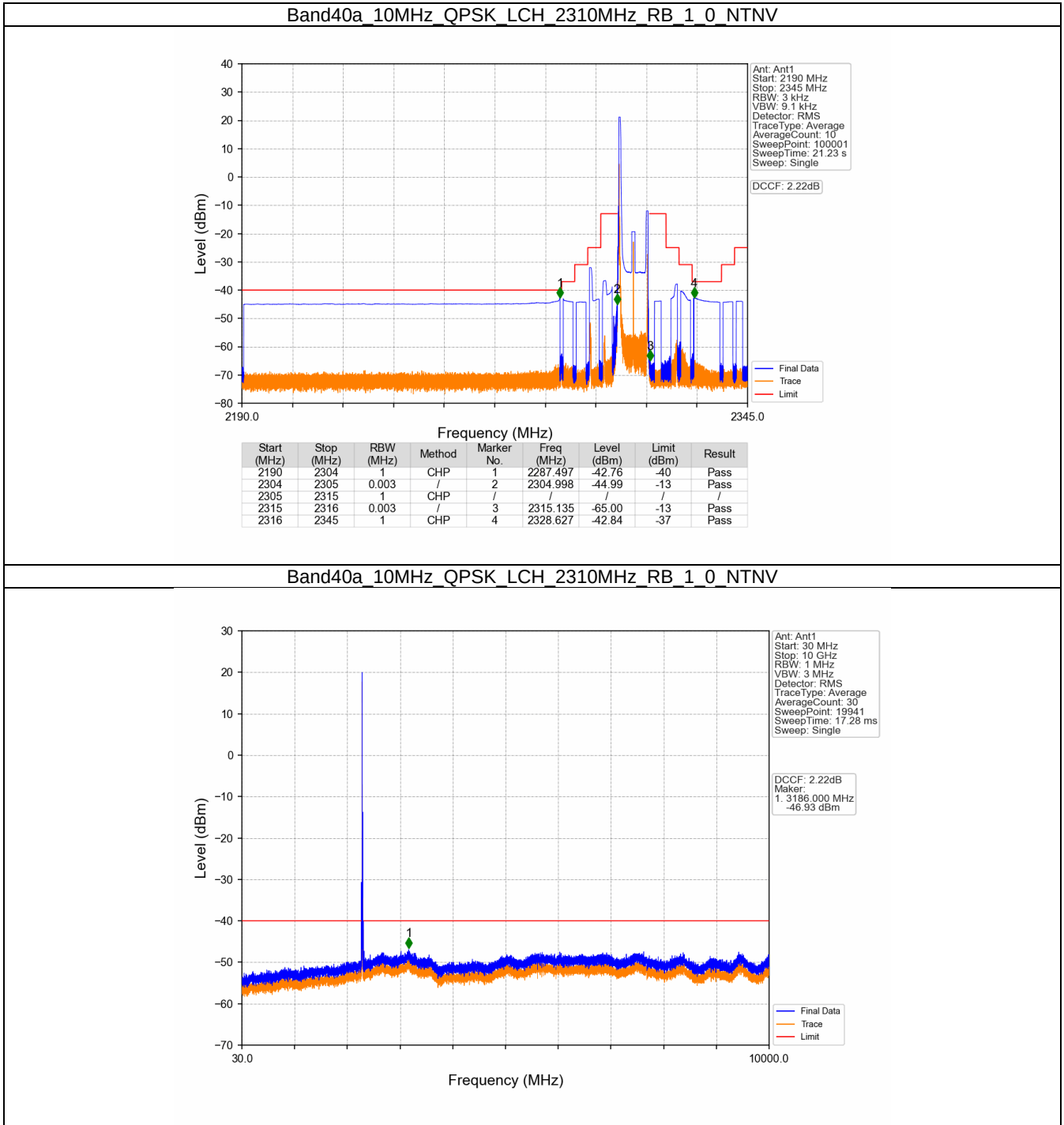


5.2 B40a_10MHz

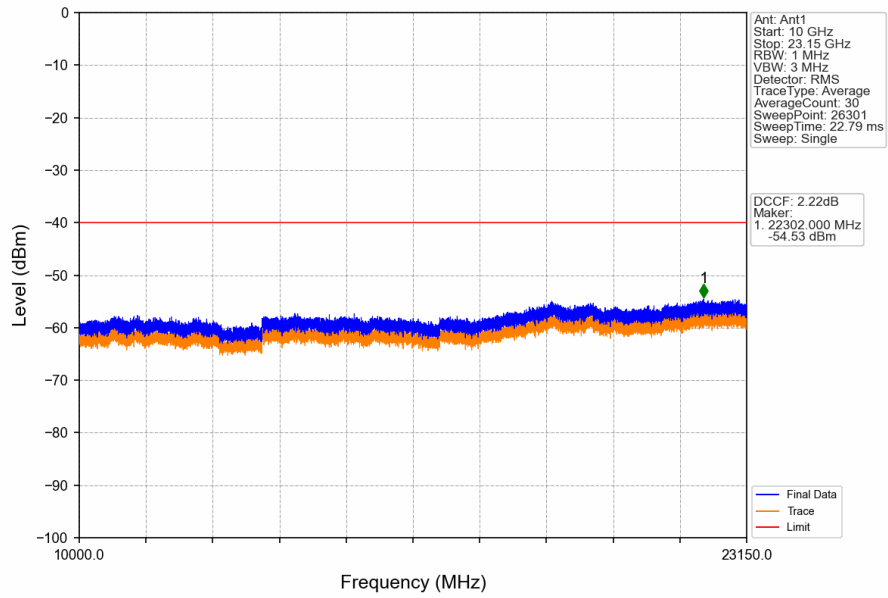
5.2.1 Test Result

Band: 40a / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2310	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	2310	1	49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass

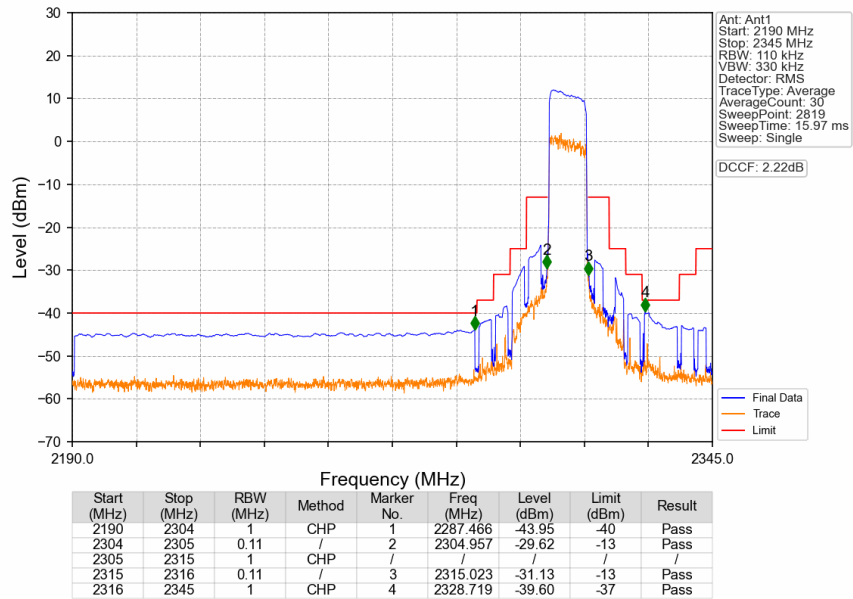
5.2.2 Test Graph



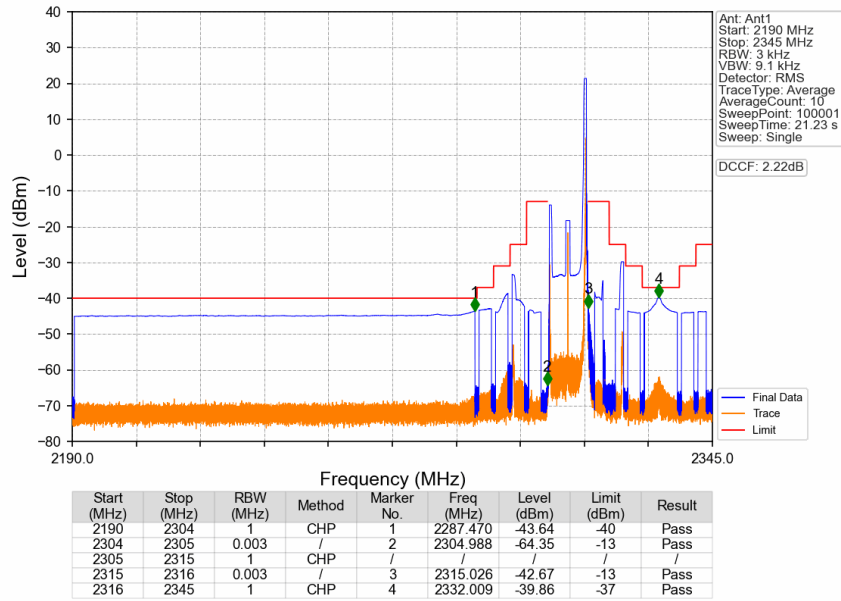
Band40a_10MHz_QPSK_LCH_2310MHz_RB_1_0_NTNV



Band40a_10MHz_QPSK_LCH_2310MHz_RB_50_0_NTNV



Band40a 10MHz QPSK HCH 2310MHz RB 1 49 NTNV



Band40a 10MHz QPSK HCH 2310MHz RB 50 0 NTNV

