

# Appendix B.12

## LTE CA\_5B



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### 1. Effective (Isotropic) Radiated Power Output Data

#### 1.1 Test Result

##### 1.1.1 CA\_5B\_NTNV\_ERP

Band: CA_5B / NTNV										
BW (MHz)	Modulation	Frequency (MHz)	RB Allocation	Conducted Power (dBm)			Gain (dBi)	EIRP (dBm)		Verdict
				CC1	CC2	Sum		Result	Limit	
CC1:3 CC2:5	CC1: QPSK CC2: QPSK	CC1:825.5 CC2:829.4	CC1: 1@0 CC2: 0@0	23.12	-20.86	23.12	1.89	22.86	<=38.45	Pass
			CC1: 1@14 CC2: 1@0	21.53	21.51	24.54	1.89	24.28	<=38.45	Pass
			CC1: 8@0 CC2: 12@13	16.93	16.82	19.89	1.89	19.63	<=38.45	Pass
			CC1: 8@7 CC2: 12@0	21.78	21.67	24.74	1.89	24.48	<=38.45	Pass
			CC1: 15@0 CC2: 25@0	21.71	21.58	24.66	1.89	24.40	<=38.45	Pass
		CC1:834.1 CC2:838	CC1: 1@0 CC2: 0@0	23.02	-20.79	23.02	1.89	22.76	<=38.45	Pass
			CC1: 1@14 CC2: 1@0	21.79	21.80	24.81	1.89	24.55	<=38.45	Pass
			CC1: 8@0 CC2: 12@13	16.90	16.98	19.95	1.89	19.69	<=38.45	Pass
			CC1: 8@7 CC2: 12@0	21.91	21.87	24.90	1.89	24.64	<=38.45	Pass
			CC1: 15@0 CC2: 25@0	21.89	21.93	24.93	1.89	24.67	<=38.45	Pass
		CC1:842.6 CC2:846.5	CC1: 1@0 CC2: 0@0	23.01	-34.31	23.02	1.89	22.76	<=38.45	Pass
			CC1: 1@14 CC2: 1@0	21.43	21.37	24.41	1.89	24.15	<=38.45	Pass
			CC1: 8@0 CC2: 12@13	16.84	16.76	19.81	1.89	19.55	<=38.45	Pass
			CC1: 8@7 CC2: 12@0	21.59	21.43	24.52	1.89	24.26	<=38.45	Pass
			CC1: 15@0	21.52	21.39	24.47	1.89	24.21	<=38.45	Pass



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			CC2: 25@0							
	CC1: 16QAM CC2: 16QAM	CC1:825.5 CC2:829.4	CC1: 1@0 CC2: 0@0	23.06	-20.22	23.07	1.89	22.81	<=38.45	Pass
			CC1: 1@14 CC2: 1@0	21.21	21.12	24.18	1.89	23.92	<=38.45	Pass
			CC1: 8@0 CC2: 12@13	17.07	16.92	20.01	1.89	19.75	<=38.45	Pass
			CC1: 8@7 CC2: 12@0	21.50	21.29	24.41	1.89	24.15	<=38.45	Pass
			CC1: 15@0 CC2: 25@0	21.38	21.25	24.33	1.89	24.07	<=38.45	Pass
		CC1:834.1 CC2:838	CC1: 1@0 CC2: 0@0	23.04	-20.00	23.05	1.89	22.79	<=38.45	Pass
			CC1: 1@14 CC2: 1@0	21.26	21.25	24.27	1.89	24.01	<=38.45	Pass
			CC1: 8@0 CC2: 12@13	16.88	17.02	19.96	1.89	19.70	<=38.45	Pass
			CC1: 8@7 CC2: 12@0	21.38	21.38	24.39	1.89	24.13	<=38.45	Pass
			CC1: 15@0 CC2: 25@0	21.22	21.28	24.27	1.89	24.01	<=38.45	Pass
		CC1:842.6 CC2:846.5	CC1: 1@0 CC2: 0@0	22.95	-34.56	22.96	1.89	22.70	<=38.45	Pass
			CC1: 1@14 CC2: 1@0	20.60	20.57	23.60	1.89	23.34	<=38.45	Pass
			CC1: 8@0 CC2: 12@13	16.87	16.78	19.83	1.89	19.57	<=38.45	Pass
			CC1: 8@7 CC2: 12@0	20.83	20.69	23.77	1.89	23.51	<=38.45	Pass
			CC1: 15@0 CC2: 25@0	20.71	20.58	23.66	1.89	23.40	<=38.45	Pass
CC1:5 CC2:3	CC1: QPSK CC2: QPSK	CC1:826.5 CC2:830.4	CC1: 1@0 CC2: 0@0	23.15	-29.34	23.16	1.89	22.90	<=38.45	Pass
			CC1: 1@24 CC2: 1@0	21.46	21.38	24.44	1.89	24.18	<=38.45	Pass
			CC1: 12@0 CC2: 8@7	17.03	16.90	19.98	1.89	19.72	<=38.45	Pass
			CC1: 12@13	21.86	21.81	24.85	1.89	24.59	<=38.45	Pass



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			CC2: 8@0							
			CC1: 25@0 CC2: 15@0	21.91	21.85	24.90	1.89	24.64	<=38.45	Pass
		CC1:835.1 CC2:839	CC1: 1@0 CC2: 0@0	23.02	-29.19	23.02	1.89	22.76	<=38.45	Pass
			CC1: 1@24 CC2: 1@0	21.85	21.80	24.85	1.89	24.59	<=38.45	Pass
			CC1: 12@0 CC2: 8@7	16.87	17.00	19.95	1.89	19.69	<=38.45	Pass
			CC1: 12@13 CC2: 8@0	21.82	21.86	24.85	1.89	24.59	<=38.45	Pass
			CC1: 25@0 CC2: 15@0	21.84	21.90	24.89	1.89	24.63	<=38.45	Pass
		CC1:843.6 CC2:847.5	CC1: 1@0 CC2: 0@0	23.09	-29.46	23.09	1.89	22.83	<=38.45	Pass
			CC1: 1@24 CC2: 1@0	21.65	21.63	24.66	1.89	24.40	<=38.45	Pass
			CC1: 12@0 CC2: 8@7	16.91	16.83	19.88	1.89	19.62	<=38.45	Pass
			CC1: 12@13 CC2: 8@0	21.74	21.75	24.76	1.89	24.50	<=38.45	Pass
			CC1: 25@0 CC2: 15@0	21.63	21.56	24.61	1.89	24.35	<=38.45	Pass
	CC1: 16QAM CC2: 16QAM	CC1:826.5 CC2:830.4	CC1: 1@0 CC2: 0@0	23.15	-29.40	23.16	1.89	22.90	<=38.45	Pass
			CC1: 1@24 CC2: 1@0	20.50	20.49	23.51	1.89	23.25	<=38.45	Pass
			CC1: 12@0 CC2: 8@7	17.00	16.88	19.95	1.89	19.69	<=38.45	Pass
			CC1: 12@13 CC2: 8@0	21.38	21.33	24.37	1.89	24.11	<=38.45	Pass
			CC1: 25@0 CC2: 15@0	21.44	21.35	24.41	1.89	24.15	<=38.45	Pass
		CC1:835.1 CC2:839	CC1: 1@0 CC2: 0@0	23.08	-29.31	23.09	1.89	22.83	<=38.45	Pass
			CC1: 1@24 CC2: 1@0	21.32	21.38	24.37	1.89	24.11	<=38.45	Pass
			CC1: 12@0	16.88	17.00	19.95	1.89	19.69	<=38.45	Pass



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			CC2: 8@7							
			CC1: 12@13 CC2: 8@0	21.39	21.39	24.40	1.89	24.14	<=38.45	Pass
			CC1: 25@0 CC2: 15@0	21.31	21.31	24.33	1.89	24.07	<=38.45	Pass
		CC1:843.6 CC2:847.5	CC1: 1@0 CC2: 0@0	23.02	-29.58	23.03	1.89	22.77	<=38.45	Pass
			CC1: 1@24 CC2: 1@0	20.65	20.62	23.65	1.89	23.39	<=38.45	Pass
			CC1: 12@0 CC2: 8@7	16.93	16.81	19.88	1.89	19.62	<=38.45	Pass
			CC1: 12@13 CC2: 8@0	20.81	20.89	23.86	1.89	23.60	<=38.45	Pass
			CC1: 25@0 CC2: 15@0	20.79	20.72	23.77	1.89	23.51	<=38.45	Pass
CC1:5 CC2:10	CC1: QPSK CC2: QPSK	CC1:826.5 CC2:833.7	CC1: 1@0 CC2: 0@0	23.08	-22.99	23.09	1.89	22.83	<=38.45	Pass
			CC1: 1@24 CC2: 1@0	21.72	21.67	24.71	1.89	24.45	<=38.45	Pass
			CC1: 12@0 CC2: 25@25	16.87	16.73	19.81	1.89	19.55	<=38.45	Pass
			CC1: 12@13 CC2: 25@0	19.76	19.69	22.74	1.89	22.48	<=38.45	Pass
			CC1: 25@0 CC2: 50@0	19.81	19.71	22.77	1.89	22.51	<=38.45	Pass
		CC1:831.7 CC2:838.9	CC1: 1@0 CC2: 0@0	22.96	-22.76	22.97	1.89	22.71	<=38.45	Pass
			CC1: 1@24 CC2: 1@0	21.71	21.68	24.71	1.89	24.45	<=38.45	Pass
			CC1: 12@0 CC2: 25@25	16.75	16.78	19.78	1.89	19.52	<=38.45	Pass
			CC1: 12@13 CC2: 25@0	19.72	19.79	22.77	1.89	22.51	<=38.45	Pass
			CC1: 25@0 CC2: 50@0	19.73	19.81	22.78	1.89	22.52	<=38.45	Pass
		CC1:836.8 CC2:844	CC1: 1@0 CC2: 0@0	22.99	-23.05	23.00	1.89	22.74	<=38.45	Pass
			CC1: 1@24	21.66	21.65	24.67	1.89	24.41	<=38.45	Pass



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			CC2: 1@0							
			CC1: 12@0 CC2: 25@25	16.77	16.68	19.74	1.89	19.48	<=38.45	Pass
			CC1: 12@13 CC2: 25@0	19.74	19.74	22.75	1.89	22.49	<=38.45	Pass
			CC1: 25@0 CC2: 50@0	19.77	19.74	22.77	1.89	22.51	<=38.45	Pass
		CC1:826.5 CC2:833.7	CC1: 1@0 CC2: 0@0	23.00	-22.08	23.01	1.89	22.75	<=38.45	Pass
			CC1: 1@24 CC2: 1@0	20.59	20.68	23.65	1.89	23.39	<=38.45	Pass
			CC1: 12@0 CC2: 25@25	16.88	16.72	19.81	1.89	19.55	<=38.45	Pass
			CC1: 12@13 CC2: 25@0	18.73	18.71	21.73	1.89	21.47	<=38.45	Pass
			CC1: 25@0 CC2: 50@0	18.79	18.72	21.77	1.89	21.51	<=38.45	Pass
		CC1:831.7 CC2:838.9	CC1: 1@0 CC2: 0@0	22.95	-21.95	22.95	1.89	22.69	<=38.45	Pass
			CC1: 1@24 CC2: 1@0	20.64	20.65	23.66	1.89	23.40	<=38.45	Pass
			CC1: 12@0 CC2: 25@25	16.77	16.83	19.81	1.89	19.55	<=38.45	Pass
			CC1: 12@13 CC2: 25@0	18.73	18.79	21.77	1.89	21.51	<=38.45	Pass
			CC1: 25@0 CC2: 50@0	18.77	18.82	21.80	1.89	21.54	<=38.45	Pass
		CC1:836.8 CC2:844	CC1: 1@0 CC2: 0@0	22.91	-22.47	22.92	1.89	22.66	<=38.45	Pass
			CC1: 1@24 CC2: 1@0	20.57	20.50	23.55	1.89	23.29	<=38.45	Pass
			CC1: 12@0 CC2: 25@25	16.76	16.65	19.72	1.89	19.46	<=38.45	Pass
			CC1: 12@13 CC2: 25@0	18.76	18.80	21.79	1.89	21.53	<=38.45	Pass
			CC1: 25@0 CC2: 50@0	18.75	18.75	21.76	1.89	21.50	<=38.45	Pass
CC1:10	CC1:	CC1:829	CC1: 1@0	23.07	-35.22	23.08	1.89	22.82	<=38.45	Pass



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CC2:5	QPSK CC2: QPSK	CC2:836.2	CC2: 0@0							
			CC1: 1@49 CC2: 1@0	21.65	21.69	24.68	1.89	24.42	<=38.45	Pass
			CC1: 25@0 CC2: 12@13	16.82	16.79	19.82	1.89	19.56	<=38.45	Pass
			CC1: 25@25 CC2: 12@0	19.72	19.73	22.73	1.89	22.47	<=38.45	Pass
			CC1: 50@0 CC2: 25@0	19.75	19.71	22.74	1.89	22.48	<=38.45	Pass
		CC1:834.2 CC2:841.4	CC1: 1@0 CC2: 0@0	22.98	-35.19	22.98	1.89	22.72	<=38.45	Pass
			CC1: 1@49 CC2: 1@0	21.62	21.68	24.67	1.89	24.41	<=38.45	Pass
			CC1: 25@0 CC2: 12@13	16.73	16.80	19.77	1.89	19.51	<=38.45	Pass
			CC1: 25@25 CC2: 12@0	19.76	19.80	22.79	1.89	22.53	<=38.45	Pass
			CC1: 50@0 CC2: 25@0	19.75	19.78	22.78	1.89	22.52	<=38.45	Pass
	CC1: 16QAM CC2: 16QAM	CC1:839.3 CC2:846.5	CC1: 1@0 CC2: 0@0	22.92	-35.12	22.93	1.89	22.67	<=38.45	Pass
			CC1: 1@49 CC2: 1@0	21.59	21.55	24.59	1.89	24.33	<=38.45	Pass
			CC1: 25@0 CC2: 12@13	16.75	16.66	19.72	1.89	19.46	<=38.45	Pass
			CC1: 25@25 CC2: 12@0	19.75	19.66	22.72	1.89	22.46	<=38.45	Pass
			CC1: 50@0 CC2: 25@0	19.79	19.68	22.75	1.89	22.49	<=38.45	Pass
		CC1:829 CC2:836.2	CC1: 1@0 CC2: 0@0	23.13	-35.18	23.13	1.89	22.87	<=38.45	Pass
			CC1: 1@49 CC2: 1@0	20.69	20.64	23.68	1.89	23.42	<=38.45	Pass
			CC1: 25@0 CC2: 12@13	16.84	16.79	19.83	1.89	19.57	<=38.45	Pass
			CC1: 25@25 CC2: 12@0	18.71	18.68	21.70	1.89	21.44	<=38.45	Pass
			CC1: 50@0	18.77	18.74	21.77	1.89	21.51	<=38.45	Pass



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CC1:10 CC2:10	CC1: QPSK CC2: QPSK	CC1:834.2 CC2:841.4	CC2: 25@0							
			CC1: 1@0 CC2: 0@0	22.95	-35.13	22.95	1.89	22.69	<=38.45	Pass
			CC1: 1@49 CC2: 1@0	20.81	20.70	23.77	1.89	23.51	<=38.45	Pass
			CC1: 25@0 CC2: 12@13	16.75	16.79	19.78	1.89	19.52	<=38.45	Pass
			CC1: 25@25 CC2: 12@0	18.75	18.81	21.79	1.89	21.53	<=38.45	Pass
			CC1: 50@0 CC2: 25@0	18.77	18.83	21.81	1.89	21.55	<=38.45	Pass
		CC1:839.3 CC2:846.5	CC1: 1@0 CC2: 0@0	22.92	-35.16	22.92	1.89	22.66	<=38.45	Pass
			CC1: 1@49 CC2: 1@0	20.72	20.48	23.62	1.89	23.36	<=38.45	Pass
			CC1: 25@0 CC2: 12@13	16.79	16.69	19.75	1.89	19.49	<=38.45	Pass
			CC1: 25@25 CC2: 12@0	18.80	18.69	21.76	1.89	21.50	<=38.45	Pass
			CC1: 50@0 CC2: 25@0	18.81	18.66	21.75	1.89	21.49	<=38.45	Pass
		CC1:829 CC2:838.9	CC1: 1@0 CC2: 0@0	23.01	-32.19	23.01	1.89	22.75	<=38.45	Pass
			CC1: 1@49 CC2: 1@0	21.63	21.60	24.63	1.89	24.37	<=38.45	Pass
			CC1: 25@0 CC2: 25@25	16.84	16.79	19.83	1.89	19.57	<=38.45	Pass
			CC1: 25@25 CC2: 25@0	20.70	20.72	23.72	1.89	23.46	<=38.45	Pass
			CC1: 50@0 CC2: 50@0	19.72	19.76	22.75	1.89	22.49	<=38.45	Pass
		CC1:831.6 CC2:841.5	CC1: 1@0 CC2: 0@0	22.94	-32.17	22.94	1.89	22.68	<=38.45	Pass
			CC1: 1@49 CC2: 1@0	21.59	21.59	24.60	1.89	24.34	<=38.45	Pass
			CC1: 25@0 CC2: 25@25	16.73	16.70	19.72	1.89	19.46	<=38.45	Pass
			CC1: 25@25	20.67	20.73	23.71	1.89	23.45	<=38.45	Pass



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			CC2: 25@0							
			CC1: 50@0 CC2: 50@0	19.73	19.74	22.75	1.89	22.49	<=38.45	Pass
		CC1:834.1 CC2:844	CC1: 1@0 CC2: 0@0	22.88	-32.17	22.88	1.89	22.62	<=38.45	Pass
			CC1: 1@49 CC2: 1@0	21.55	21.58	24.58	1.89	24.32	<=38.45	Pass
			CC1: 25@0 CC2: 25@25	16.75	16.69	19.73	1.89	19.47	<=38.45	Pass
			CC1: 25@25 CC2: 25@0	20.68	20.71	23.71	1.89	23.45	<=38.45	Pass
			CC1: 50@0 CC2: 50@0	19.76	19.78	22.78	1.89	22.52	<=38.45	Pass
	CC1: 16QAM CC2: 16QAM	CC1:829 CC2:838.9	CC1: 1@0 CC2: 0@0	23.03	-32.21	23.03	1.89	22.77	<=38.45	Pass
			CC1: 1@49 CC2: 1@0	20.69	20.64	23.68	1.89	23.42	<=38.45	Pass
			CC1: 25@0 CC2: 25@25	16.84	16.77	19.82	1.89	19.56	<=38.45	Pass
			CC1: 25@25 CC2: 25@0	19.74	19.76	22.76	1.89	22.50	<=38.45	Pass
			CC1: 50@0 CC2: 50@0	18.64	18.64	21.65	1.89	21.39	<=38.45	Pass
		CC1:831.6 CC2:841.5	CC1: 1@0 CC2: 0@0	23.01	-32.17	23.01	1.89	22.75	<=38.45	Pass
			CC1: 1@49 CC2: 1@0	20.64	20.63	23.65	1.89	23.39	<=38.45	Pass
			CC1: 25@0 CC2: 25@25	16.80	16.76	19.79	1.89	19.53	<=38.45	Pass
			CC1: 25@25 CC2: 25@0	19.72	19.77	22.75	1.89	22.49	<=38.45	Pass
			CC1: 50@0 CC2: 50@0	18.67	18.71	21.70	1.89	21.44	<=38.45	Pass
		CC1:834.1 CC2:844	CC1: 1@0 CC2: 0@0	22.90	-32.18	22.90	1.89	22.64	<=38.45	Pass
			CC1: 1@49 CC2: 1@0	20.66	20.70	23.69	1.89	23.43	<=38.45	Pass
			CC1: 25@0	16.76	16.69	19.74	1.89	19.48	<=38.45	Pass



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			CC2: 25@25							
			CC1: 25@25	19.73	19.73	22.74	1.89	22.48	<=38.45	Pass
			CC2: 25@0							
			CC1: 50@0	18.75	18.77	21.77	1.89	21.51	<=38.45	Pass
			CC2: 50@0							
Note1: EIRP=Conducted Power+Antenna Gain-2.15										

## 2. 99% & 26dB Bandwidth

### 2.1 Test Result

#### 2.1.1 CA\_5B\_NTNV\_OBW

Band: CA_5B / NTNv						
BW (MHz)	Modulation	Frequency (MHz)	RB Allocation	99% Occupied Bandwidth (MHz)		Verdict
				Sum	Limit	
CC1:3 CC2:5	CC1: QPSK	CC1:825.5	CC1: 15@0	7.59	/	Pass
		CC2:829.4	CC2: 25@0			
	CC2: QPSK	CC1:842.6	CC1: 15@0	7.60	/	Pass
		CC2:846.5	CC2: 25@0			
	CC1: 16QAM	CC1:825.5	CC1: 15@0	7.58	/	Pass
		CC2:829.4	CC2: 25@0			
CC1:5 CC2:3	CC1: QPSK	CC1:826.5	CC1: 25@0	7.59	/	Pass
		CC2:830.4	CC2: 15@0			
	CC2: QPSK	CC1:843.6	CC1: 25@0	7.60	/	Pass
		CC2:847.5	CC2: 15@0			
	CC1: 16QAM	CC1:826.5	CC1: 25@0	7.61	/	Pass
		CC2:830.4	CC2: 15@0			
CC1:5 CC2:10	CC1: QPSK	CC1:826.5	CC1: 25@0	14.07	/	Pass
		CC2:833.7	CC2: 50@0			
	CC2: QPSK	CC1:836.8	CC1: 25@0	14.04	/	Pass
		CC2:844	CC2: 50@0			
	CC1: 16QAM	CC1:826.5	CC1: 25@0	14.09	/	Pass
		CC2:833.7	CC2: 50@0			



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	CC2: 16QAM	CC1:836.8 CC2:844	CC1: 25@0 CC2: 50@0	14.04	/	Pass
CC1:10 CC2:5	CC1: QPSK	CC1:829 CC2:836.2	CC1: 50@0 CC2: 25@0	14.07	/	Pass
	CC2: QPSK	CC1:839.3 CC2:846.5	CC1: 50@0 CC2: 25@0	14.12	/	Pass
	CC1: 16QAM	CC1:829 CC2:836.2	CC1: 50@0 CC2: 25@0	14.05	/	Pass
	CC2: 16QAM	CC1:839.3 CC2:846.5	CC1: 50@0 CC2: 25@0	14.11	/	Pass
CC1:10 CC2:10	CC1: QPSK	CC1:829 CC2:838.9	CC1: 50@0 CC2: 50@0	18.89	/	Pass
	CC2: QPSK	CC1:834.1 CC2:844	CC1: 50@0 CC2: 50@0	18.96	/	Pass
	CC1: 16QAM	CC1:829 CC2:838.9	CC1: 50@0 CC2: 50@0	18.96	/	Pass
	CC2: 16QAM	CC1:834.1 CC2:844	CC1: 50@0 CC2: 50@0	18.97	/	Pass

### 2.1.2 CA\_5B\_NTNV\_XDB

Band: CA_5B / NTNV						
BW (MHz)	Modulation	Frequency (MHz)	RB Allocation	26dB Bandwidth (MHz)		Verdict
				Sum	Limit	
CC1:3 CC2:5	CC1: QPSK	CC1:825.5 CC2:829.4	CC1: 15@0 CC2: 25@0	8.97	/	Pass
	CC2: QPSK	CC1:842.6 CC2:846.5	CC1: 15@0 CC2: 25@0	8.36	/	Pass
	CC1: 16QAM	CC1:825.5 CC2:829.4	CC1: 15@0 CC2: 25@0	8.75	/	Pass
	CC2: 16QAM	CC1:842.6 CC2:846.5	CC1: 15@0 CC2: 25@0	8.25	/	Pass
CC1:5 CC2:3	CC1: QPSK	CC1:826.5 CC2:830.4	CC1: 25@0 CC2: 15@0	9.50	/	Pass
	CC2: QPSK	CC1:843.6 CC2:847.5	CC1: 25@0 CC2: 15@0	9.44	/	Pass
	CC1: 16QAM	CC1:826.5 CC2:830.4	CC1: 25@0 CC2: 15@0	8.36	/	Pass



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	CC2: 16QAM	CC1:843.6 CC2:847.5	CC1: 25@0 CC2: 15@0	8.63	/	Pass
CC1:5 CC2:10	CC1: QPSK	CC1:826.5 CC2:833.7	CC1: 25@0 CC2: 50@0	15.29	/	Pass
	CC2: QPSK	CC1:836.8 CC2:844	CC1: 25@0 CC2: 50@0	15.26	/	Pass
	CC1: 16QAM	CC1:826.5 CC2:833.7	CC1: 25@0 CC2: 50@0	15.22	/	Pass
	CC2: 16QAM	CC1:836.8 CC2:844	CC1: 25@0 CC2: 50@0	15.17	/	Pass
CC1:10 CC2:5	CC1: QPSK	CC1:829 CC2:836.2	CC1: 50@0 CC2: 25@0	15.32	/	Pass
	CC2: QPSK	CC1:839.3 CC2:846.5	CC1: 50@0 CC2: 25@0	15.36	/	Pass
	CC1: 16QAM	CC1:829 CC2:836.2	CC1: 50@0 CC2: 25@0	15.27	/	Pass
	CC2: 16QAM	CC1:839.3 CC2:846.5	CC1: 50@0 CC2: 25@0	15.27	/	Pass
CC1:10 CC2:10	CC1: QPSK	CC1:829 CC2:838.9	CC1: 50@0 CC2: 50@0	20.52	/	Pass
	CC2: QPSK	CC1:834.1 CC2:844	CC1: 50@0 CC2: 50@0	20.45	/	Pass
	CC1: 16QAM	CC1:829 CC2:838.9	CC1: 50@0 CC2: 50@0	20.30	/	Pass
	CC2: 16QAM	CC1:834.1 CC2:844	CC1: 50@0 CC2: 50@0	20.41	/	Pass



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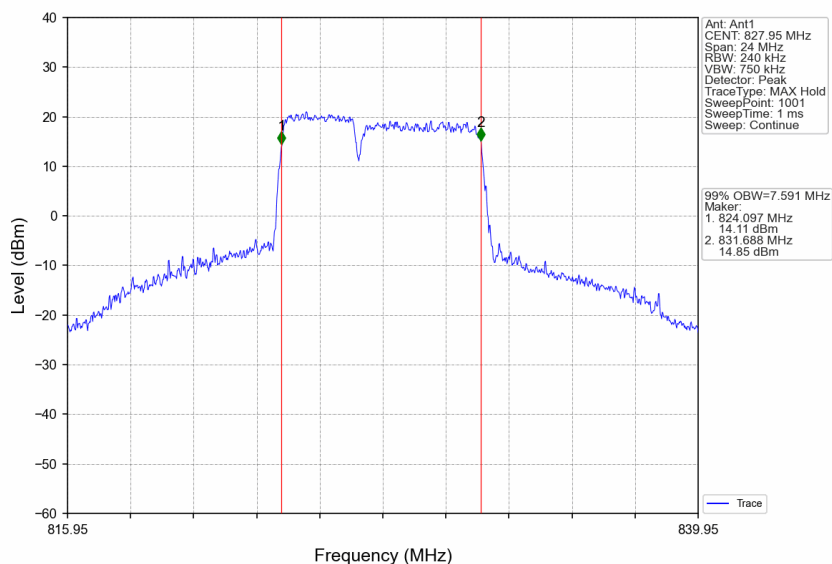
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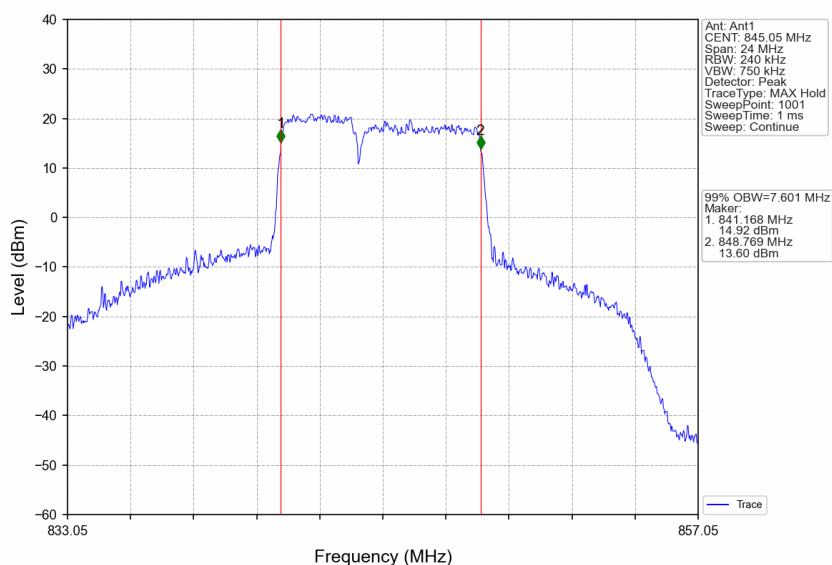
### 2.2 Test Graph

#### 2.2.1 CA\_5B\_NTNV\_OBW

CA\_5B\_SISO\_NTNV\_CC1:3 CC2:5MHz\_CC1:QPSK CC2:QPSK\_CC1:825.5 CC2:829.4MHz\_CC1: 15@0 CC2: 25@0



CA\_5B\_SISO\_NTNV\_CC1:3 CC2:5MHz\_CC1:QPSK CC2:QPSK\_CC1:842.6 CC2:846.5MHz\_CC1: 15@0 CC2: 25@0



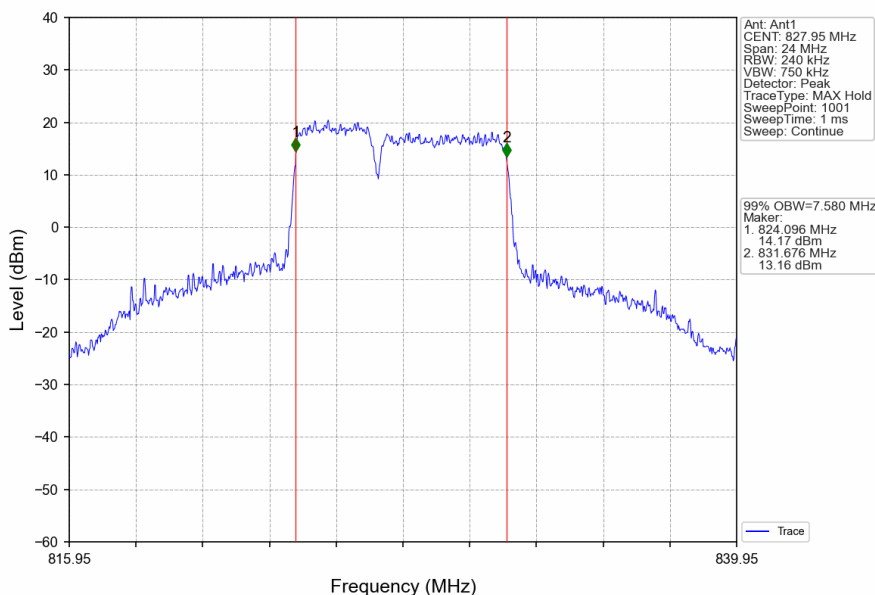
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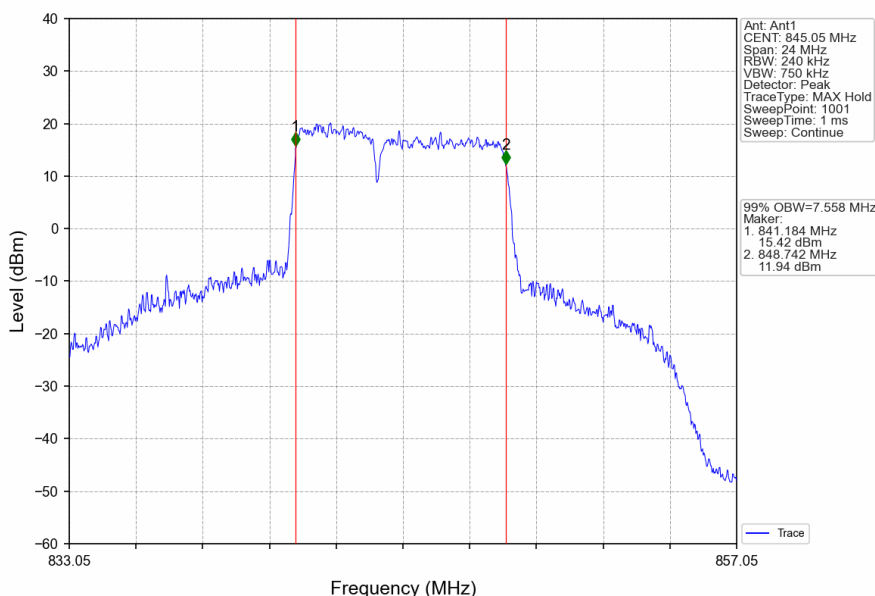
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CA\_5B\_SISO\_NTNV\_CC1:3 CC2:5MHz\_CC1:16QAM CC2:16QAM\_CC1:825.5 CC2:829.4MHz\_CC1: 15@0 CC2: 25@0



CA\_5B\_SISO\_NTNV\_CC1:3 CC2:5MHz\_CC1:16QAM CC2:16QAM\_CC1:842.6 CC2:846.5MHz\_CC1: 15@0 CC2: 25@0

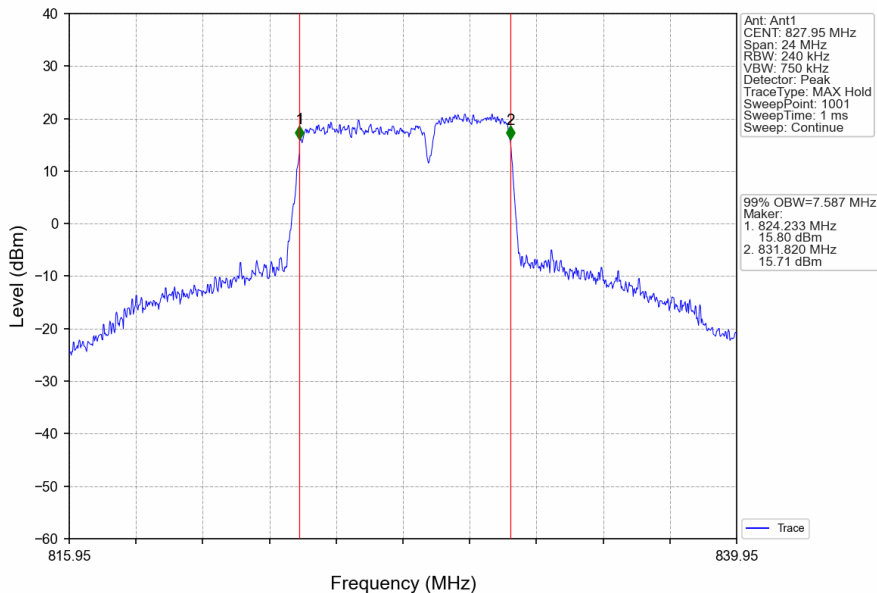


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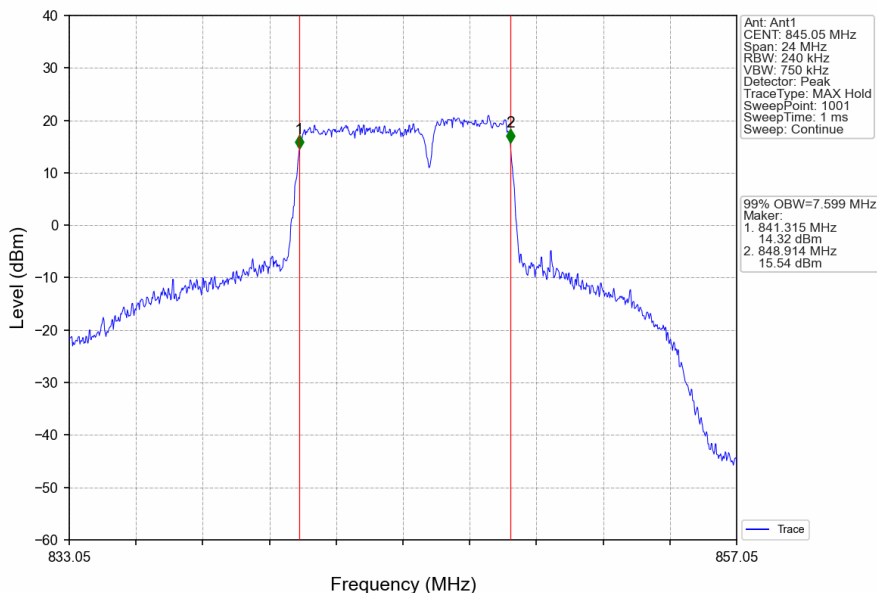
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CA\_5B\_SISO\_NTNV\_CC1:5 CC2:3MHz\_CC1:QPSK CC2:QPSK\_CC1:826.5 CC2:830.4MHz\_CC1: 25@0 CC2: 15@0



CA\_5B\_SISO\_NTNV\_CC1:5 CC2:3MHz\_CC1:QPSK CC2:QPSK\_CC1:843.6 CC2:847.5MHz\_CC1: 25@0 CC2: 15@0

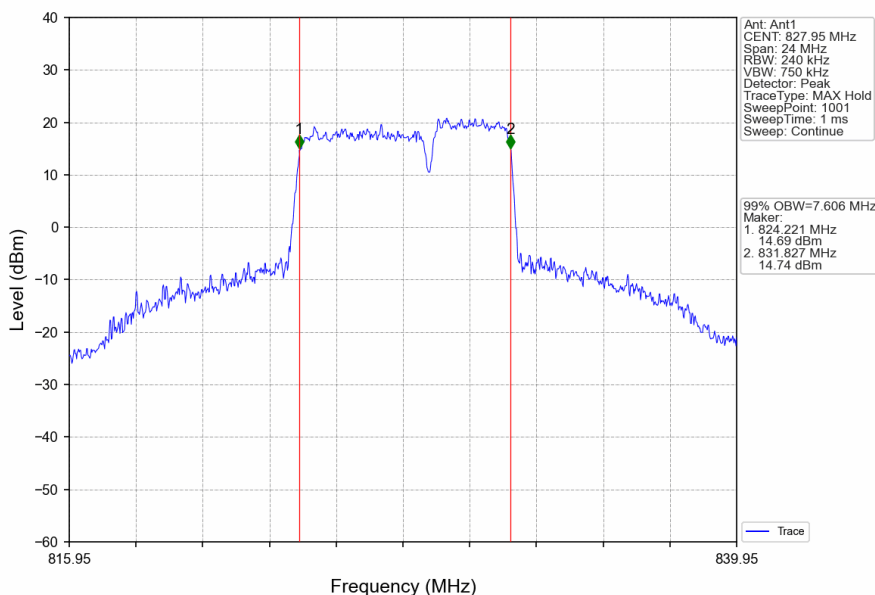


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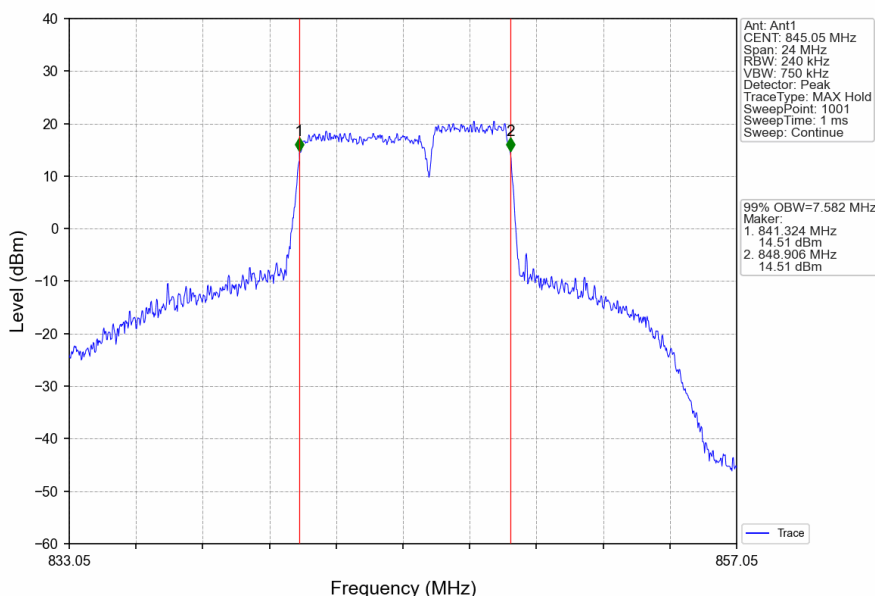
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CA\_5B\_SISO\_NTNV\_CC1:5 CC2:3MHz\_CC1:16QAM CC2:16QAM\_CC1:826.5 CC2:830.4MHz\_CC1: 25@0 CC2: 15@0



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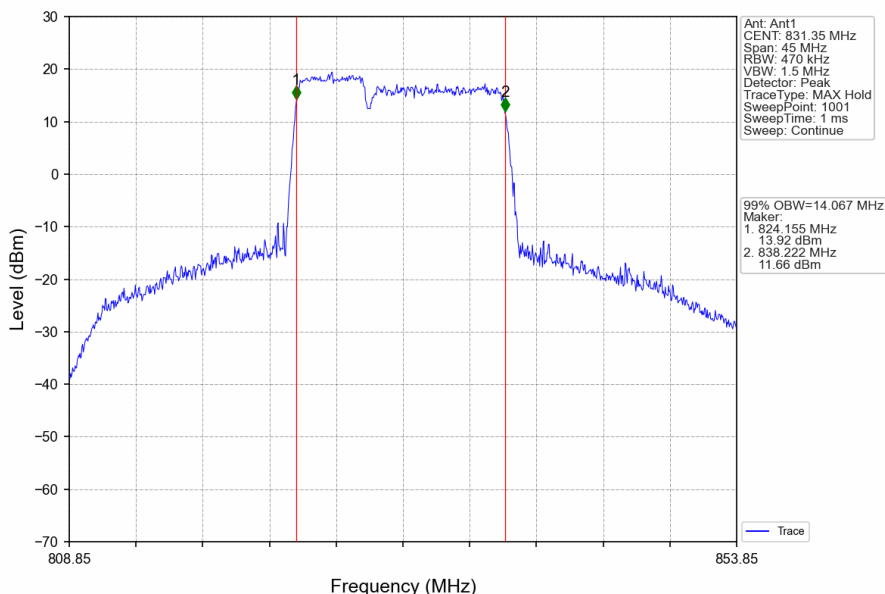


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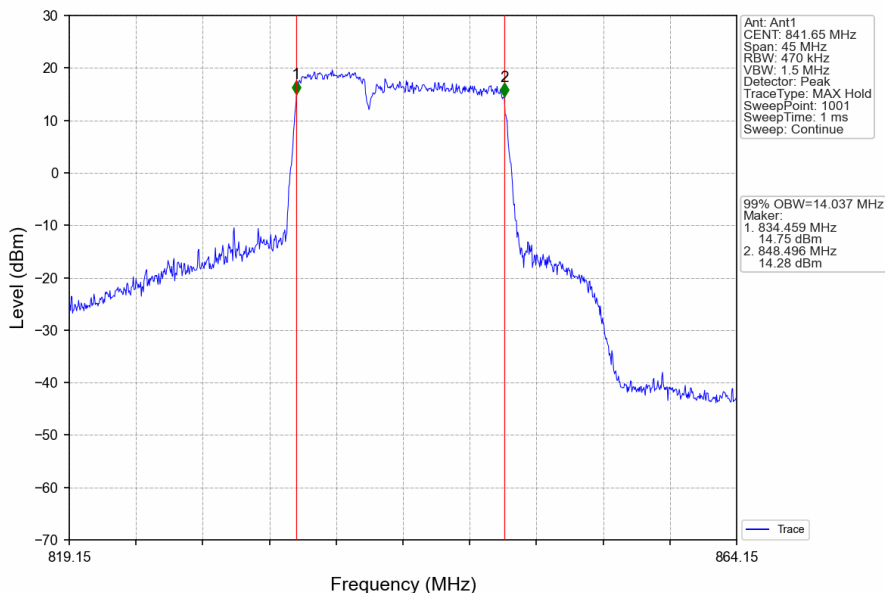
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CA\_5B\_SISO\_NTNV\_CC1:5 CC2:10MHz\_CC1:QPSK CC2:QPSK\_CC1:826.5 CC2:833.7MHz\_CC1: 25@0 CC2: 50@0



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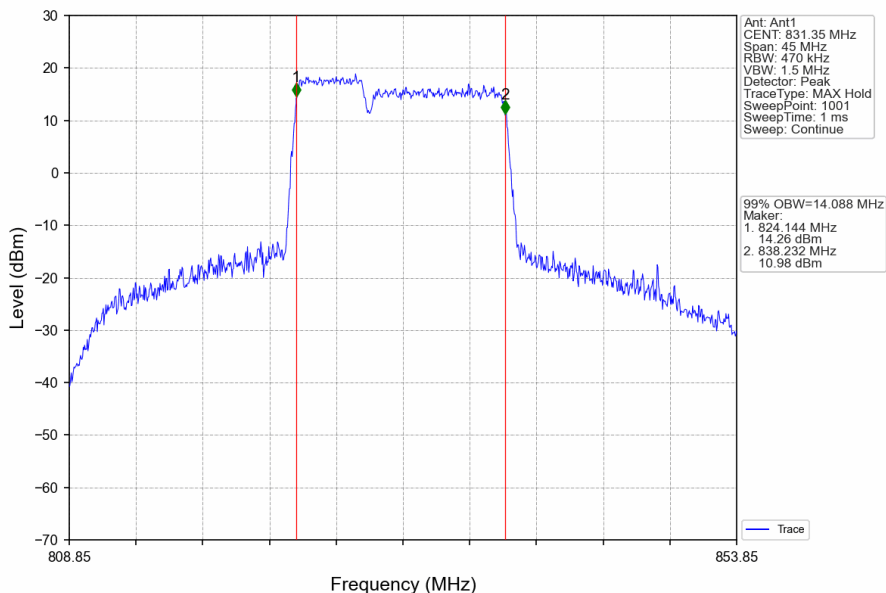


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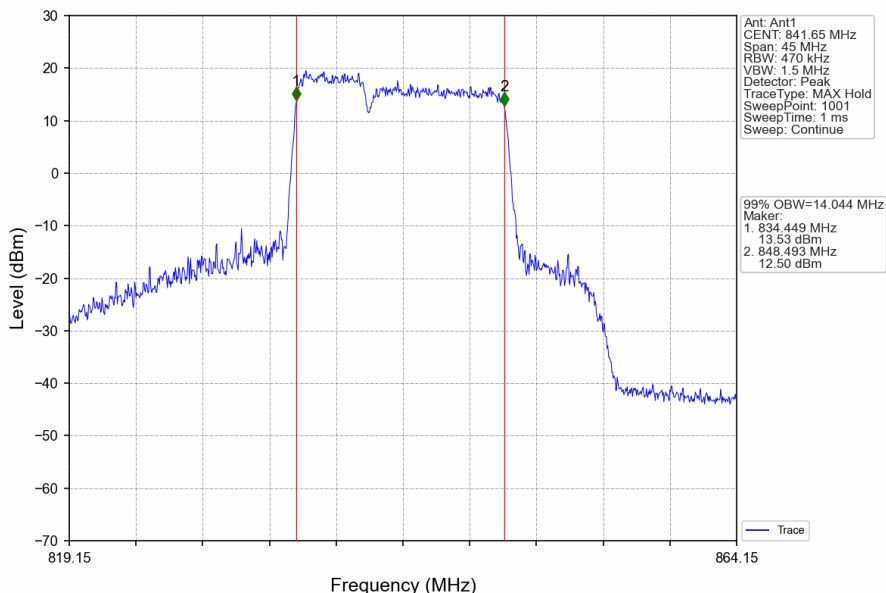
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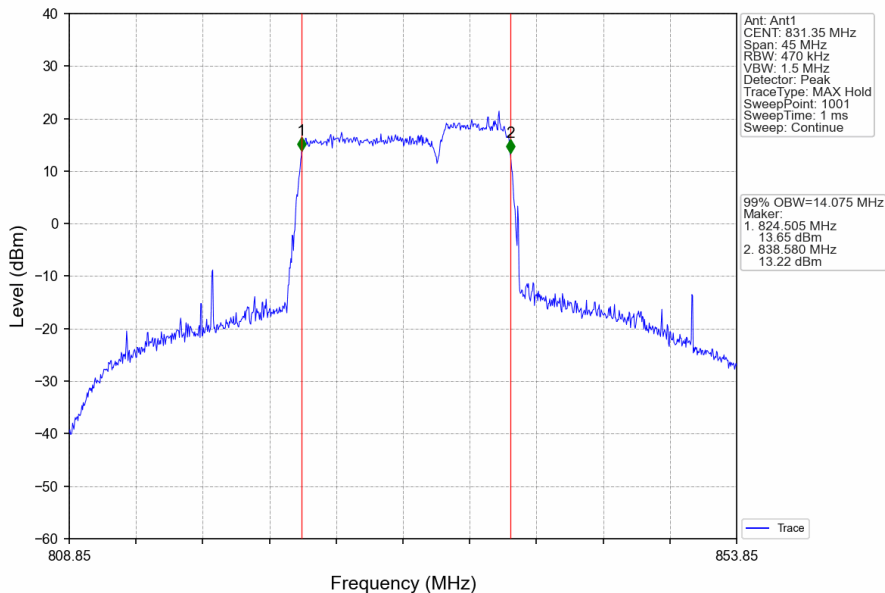
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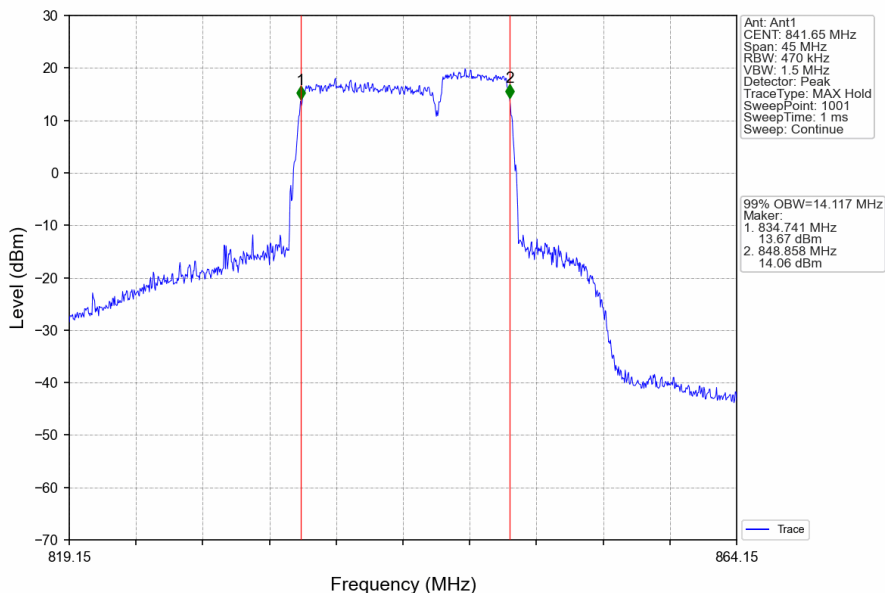
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CA\_5B\_SISO\_NTNV\_CC1:10 CC2:5MHz\_CC1:QPSK CC2:QPSK\_CC1:829 CC2:836.2MHz\_CC1: 50@0 CC2: 25@0



CA\_5B\_SISO\_NTNV\_CC1:10 CC2:5MHz\_CC1:QPSK CC2:QPSK\_CC1:839.3 CC2:846.5MHz\_CC1: 50@0 CC2: 25@0

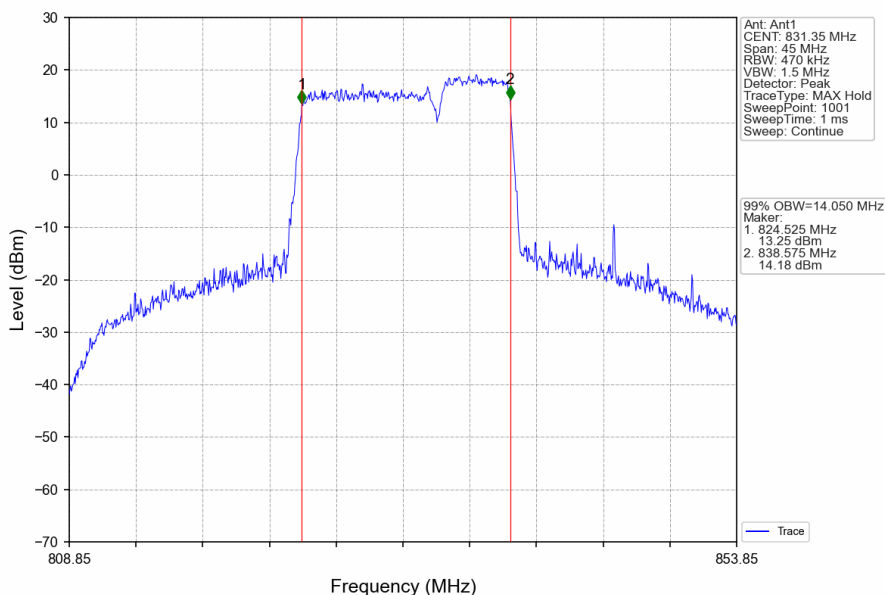


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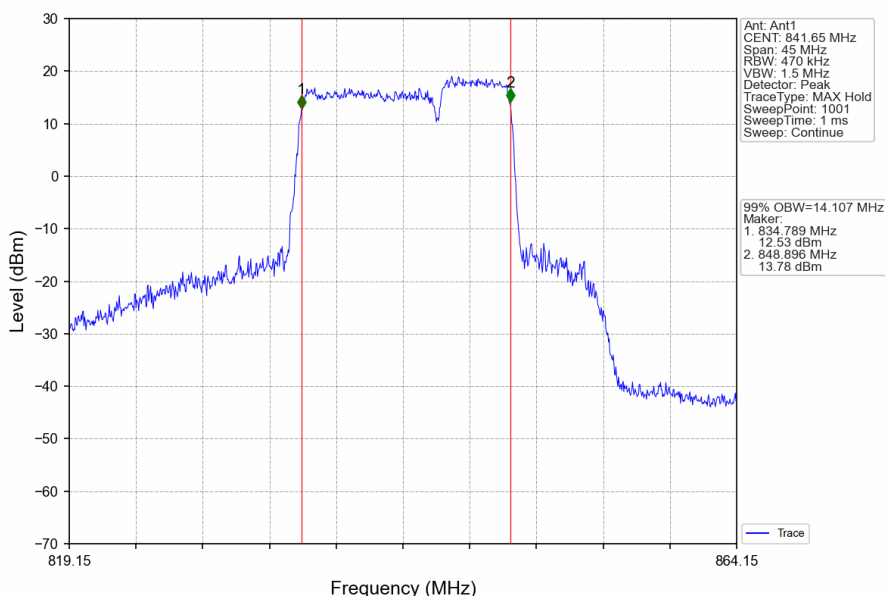
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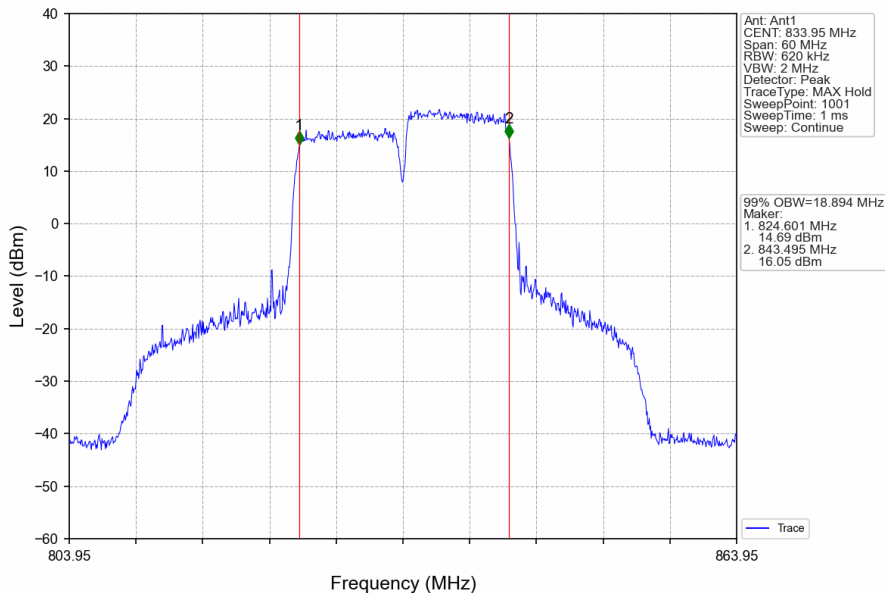


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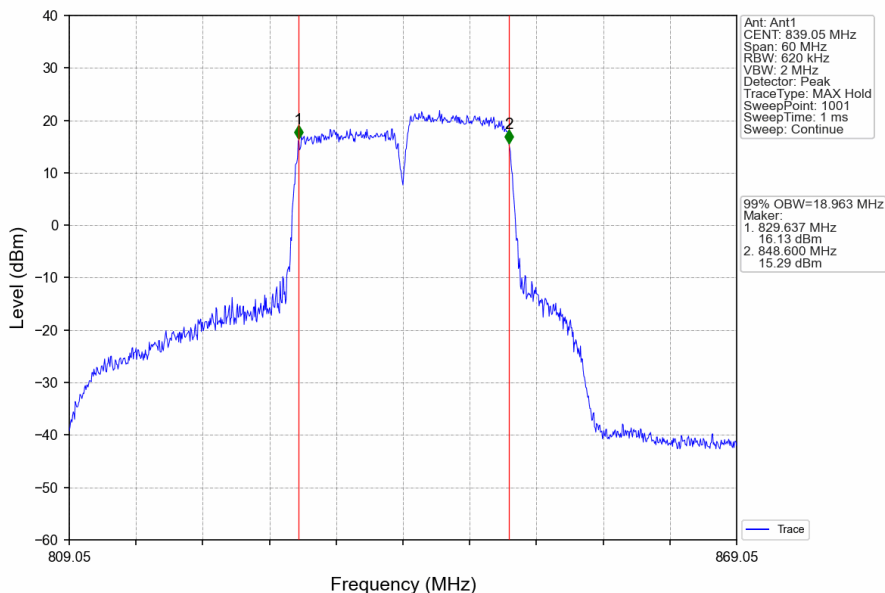
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CA\_5B\_SISO\_NTNV\_CC1:10 CC2:10MHz\_CC1:QPSK CC2:QPSK\_CC1:829 CC2:838.9MHz\_CC1: 50@0 CC2: 50@0



CA\_5B\_SISO\_NTNV\_CC1:10 CC2:10MHz\_CC1:QPSK CC2:QPSK\_CC1:834.1 CC2:844MHz\_CC1: 50@0 CC2: 50@0

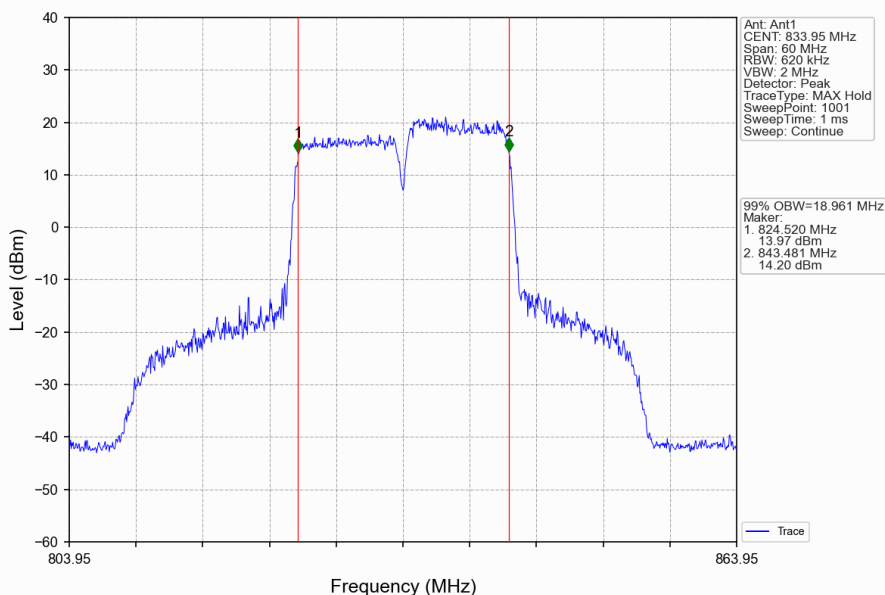


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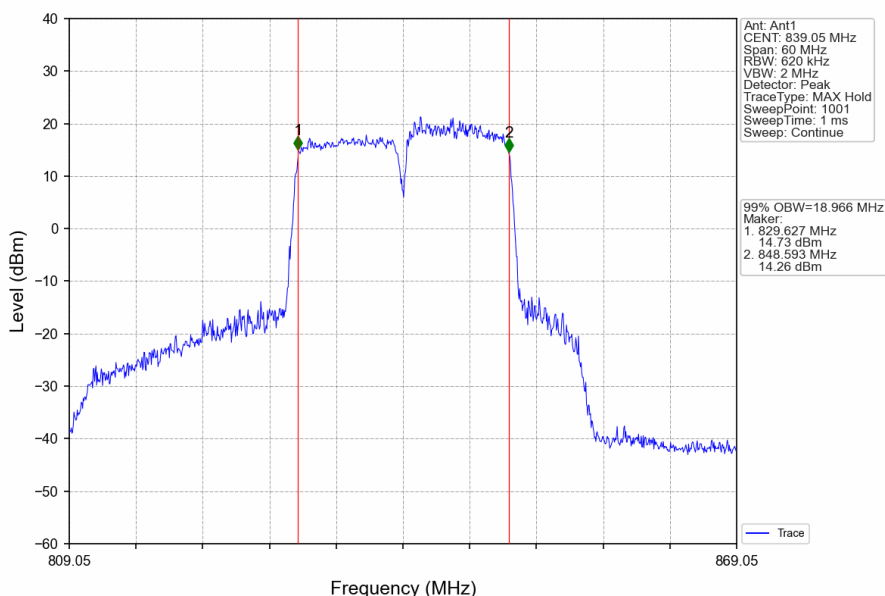
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50@0



CA\_5B\_SISO\_NTNV\_CC1:10 CC2:10MHz\_CC1:16QAM CC2:16QAM\_CC1:834.1 CC2:844MHz\_CC1: 50@0 CC2:  
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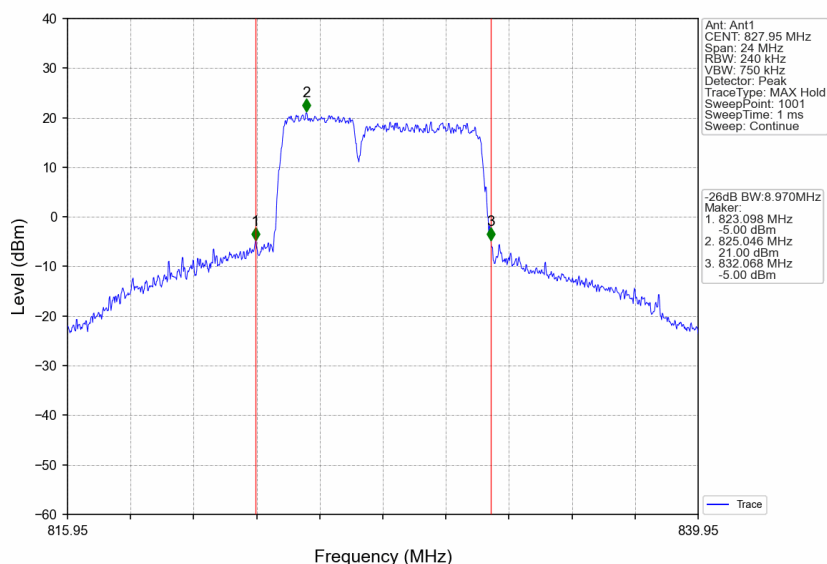
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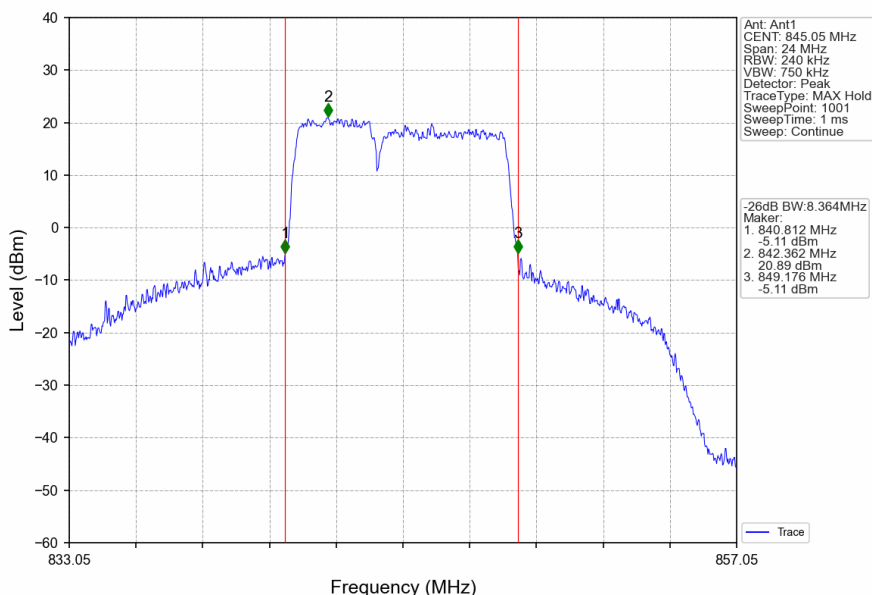
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### 2.2.2 CA\_5B\_NTNV\_XDB

CA\_5B\_SISO\_NTNV\_CC1:3 CC2:5MHz\_CC1:QPSK CC2:QPSK\_CC1:825.5 CC2:829.4MHz\_CC1: 15@0 CC2: 25@0



CA\_5B\_SISO\_NTNV\_CC1:3 CC2:5MHz\_CC1:QPSK CC2:QPSK\_CC1:842.6 CC2:846.5MHz\_CC1: 15@0 CC2: 25@0



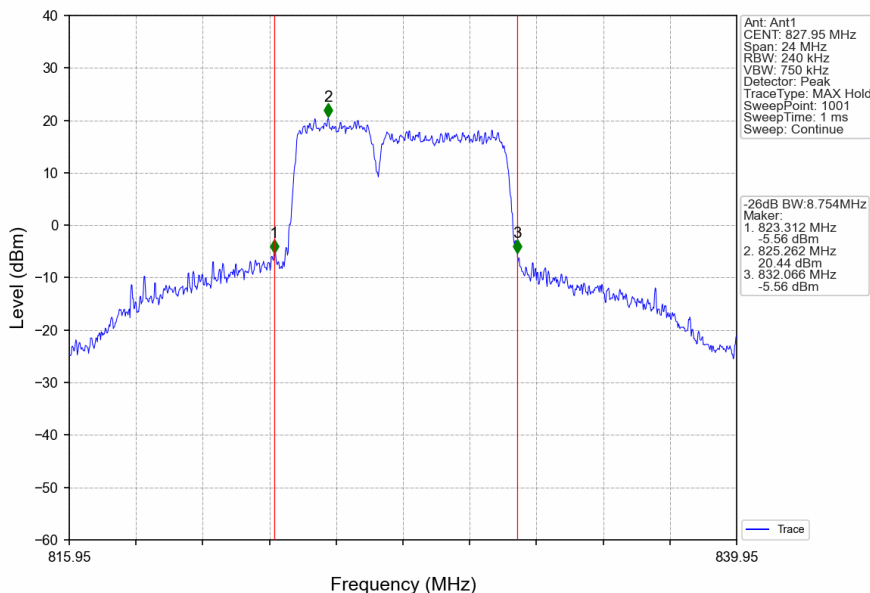
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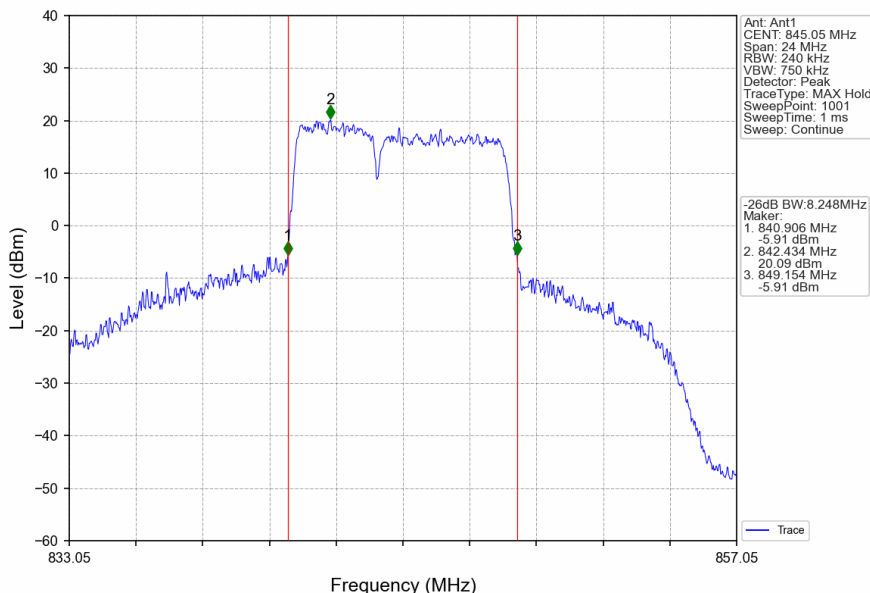
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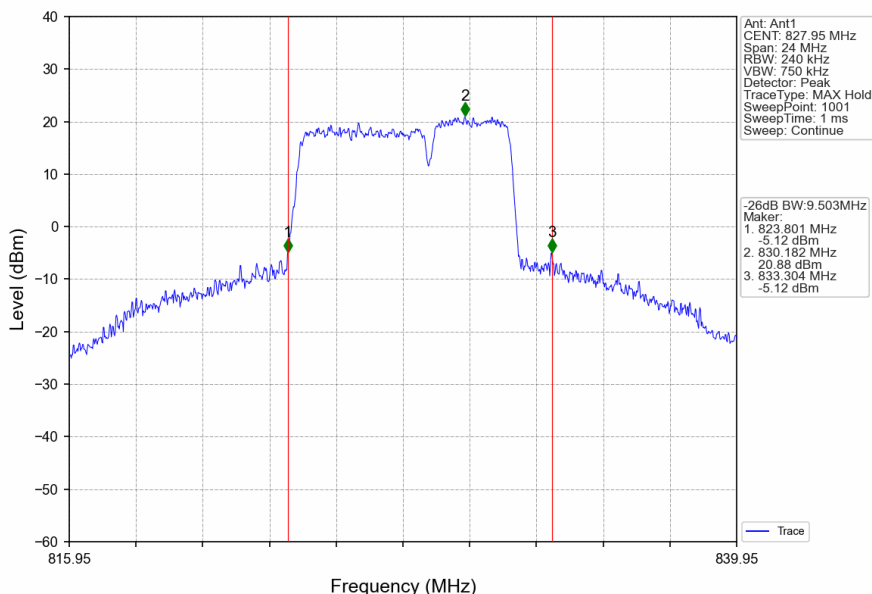


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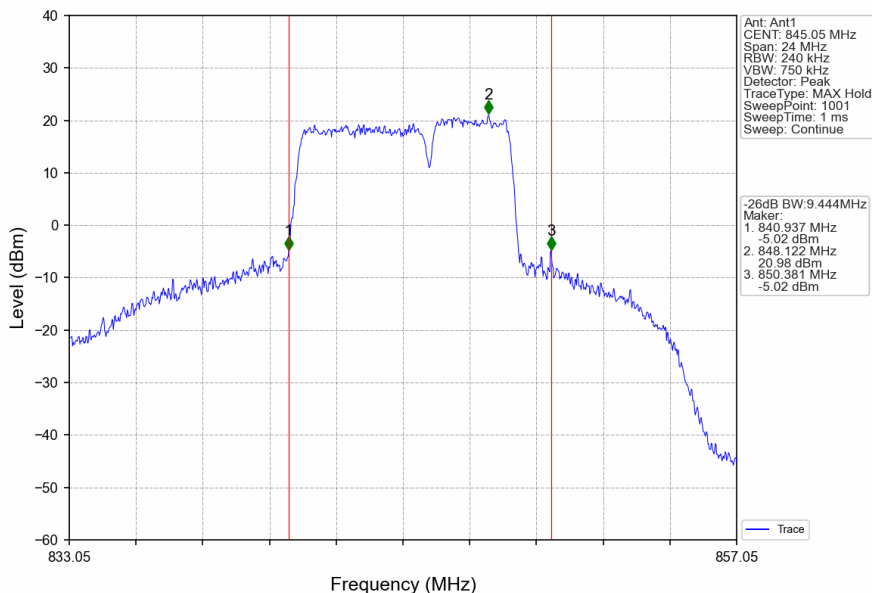
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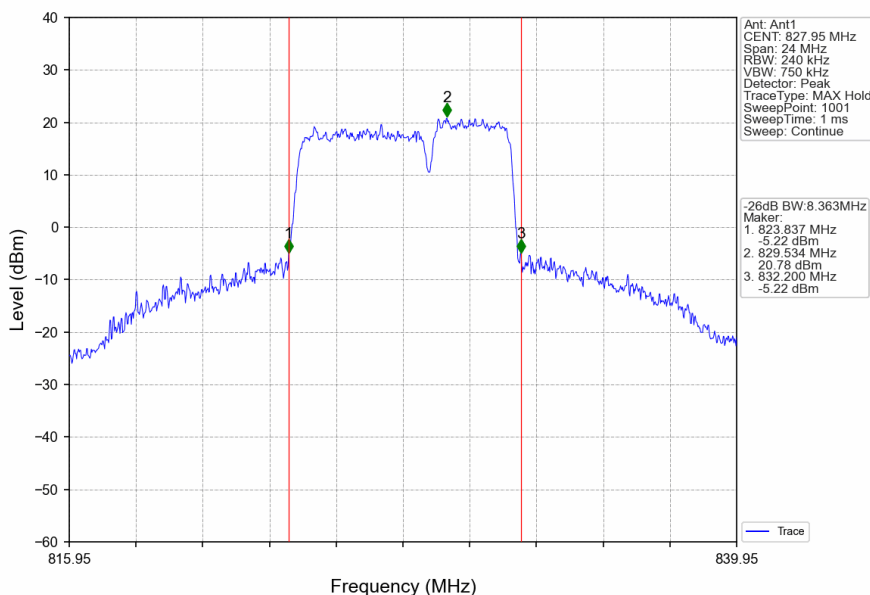


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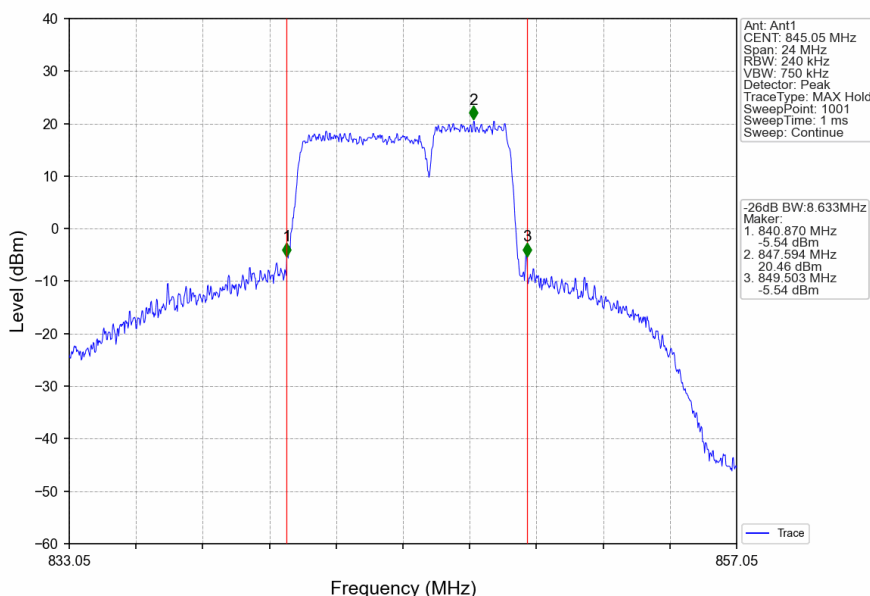
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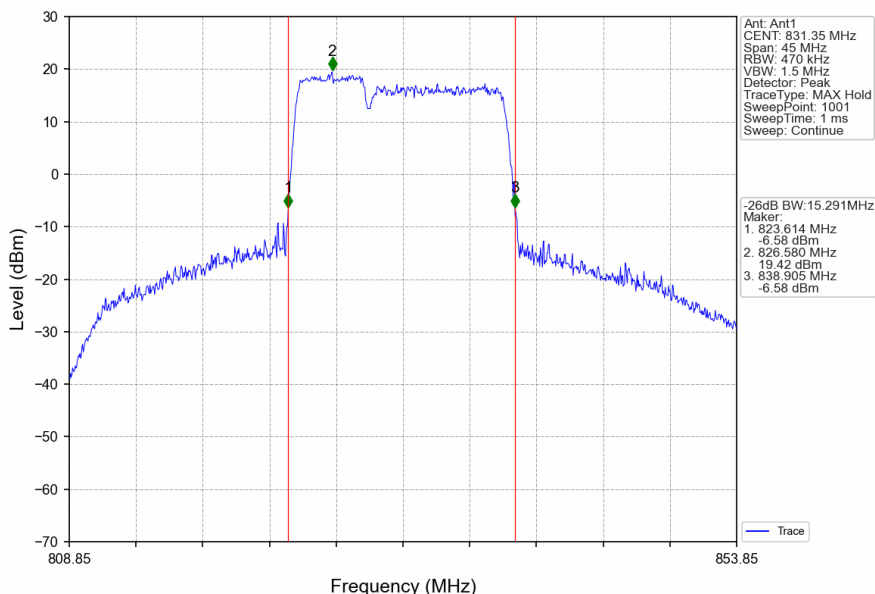


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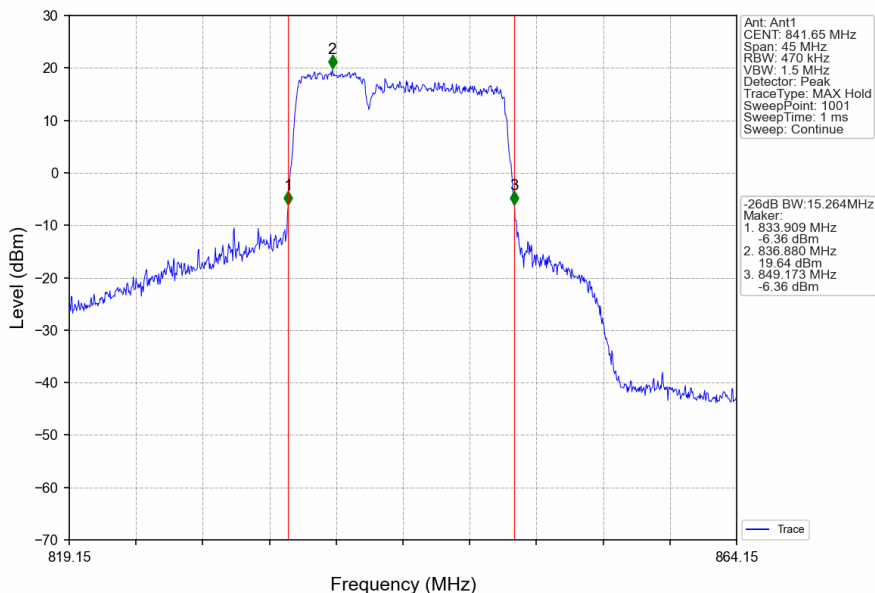
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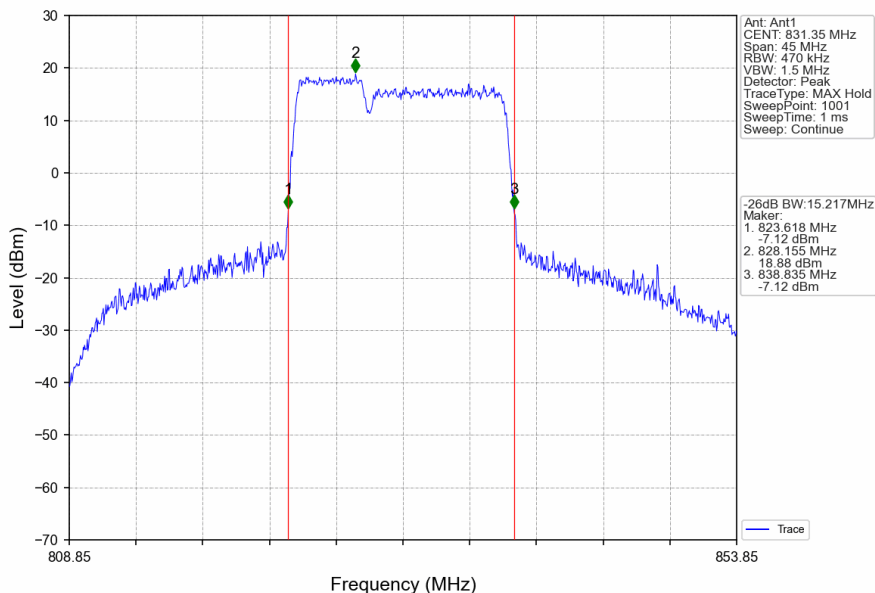


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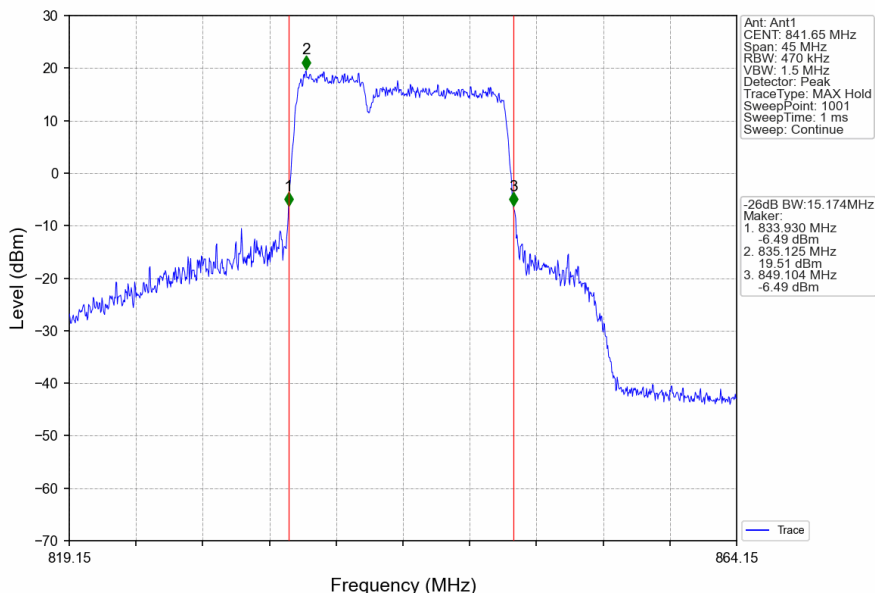
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CA\_5B\_SISO\_NTNV\_CC1:5 CC2:10MHz\_CC1:16QAM CC2:16QAM\_CC1:826.5 CC2:833.7MHz\_CC1: 25@0 CC2: 50@0



CA\_5B\_SISO\_NTNV\_CC1:5 CC2:10MHz\_CC1:16QAM CC2:16QAM\_CC1:836.8 CC2:844MHz\_CC1: 25@0 CC2: 50@0



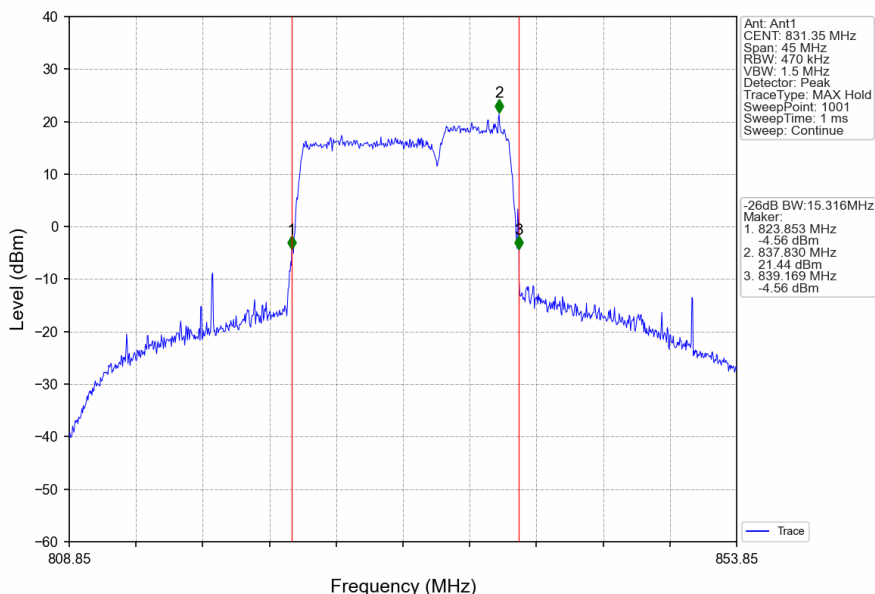
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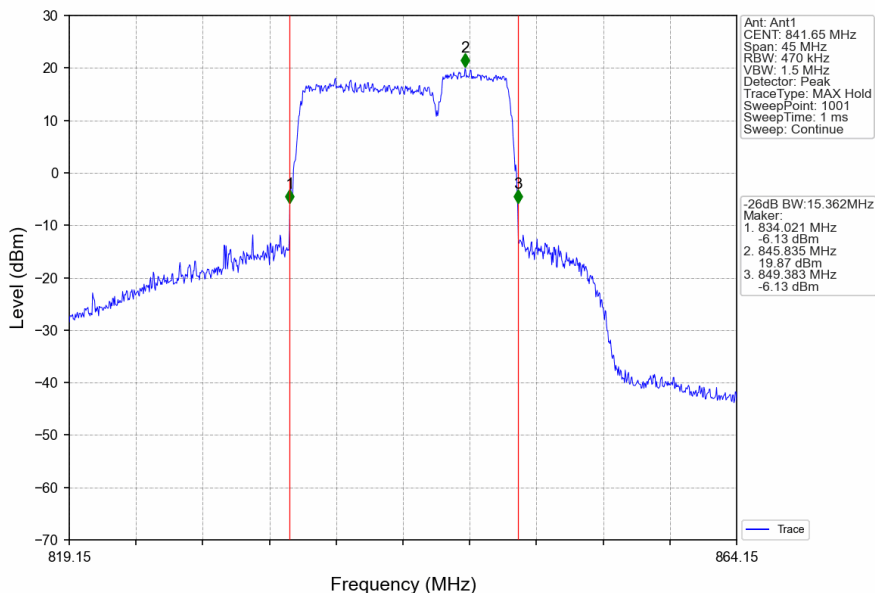
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CA\_5B\_SISO\_NTNV\_CC1:10 CC2:5MHz\_CC1:QPSK CC2:QPSK\_CC1:829 CC2:836.2MHz\_CC1: 50@0 CC2: 25@0



CA\_5B\_SISO\_NTNV\_CC1:10 CC2:5MHz\_CC1:QPSK CC2:QPSK\_CC1:839.3 CC2:846.5MHz\_CC1: 50@0 CC2: 25@0

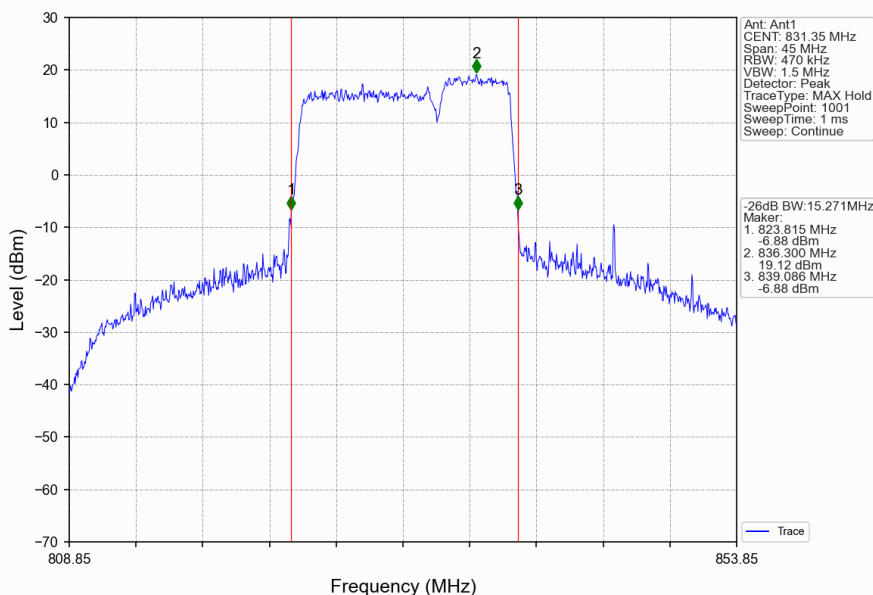


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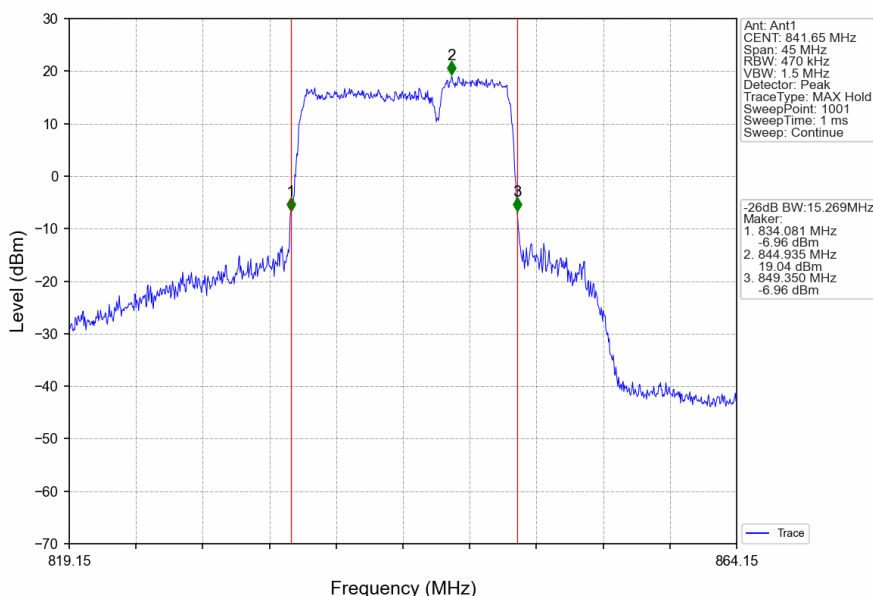
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CA\_5B\_SISO\_NTNV\_CC1:10 CC2:5MHz\_CC1:16QAM CC2:16QAM\_CC1:829 CC2:836.2MHz\_CC1: 50@0 CC2:  
25@0



CA\_5B\_SISO\_NTNV\_CC1:10 CC2:5MHz\_CC1:16QAM CC2:16QAM\_CC1:839.3 CC2:846.5MHz\_CC1: 50@0 CC2:  
25@0

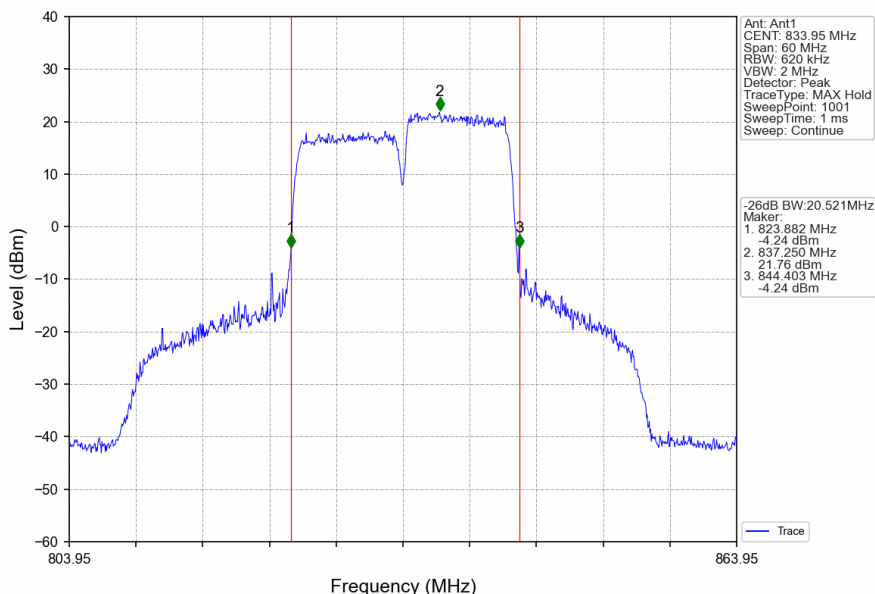


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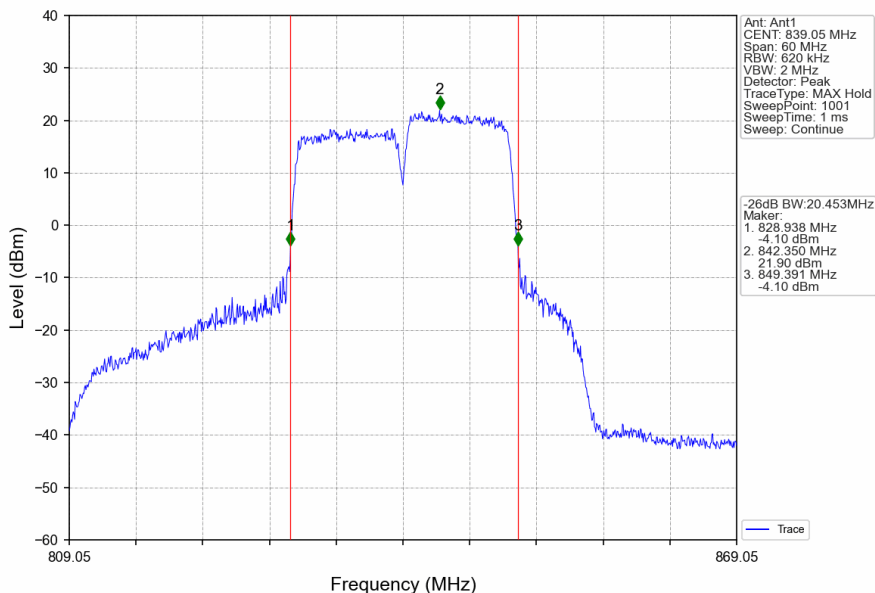
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CA\_5B\_SISO\_NTNV\_CC1:10 CC2:10MHz\_CC1:QPSK CC2:QPSK\_CC1:829 CC2:838.9MHz\_CC1: 50@0 CC2: 50@0



CA\_5B\_SISO\_NTNV\_CC1:10 CC2:10MHz\_CC1:QPSK CC2:QPSK\_CC1:834.1 CC2:844MHz\_CC1: 50@0 CC2: 50@0

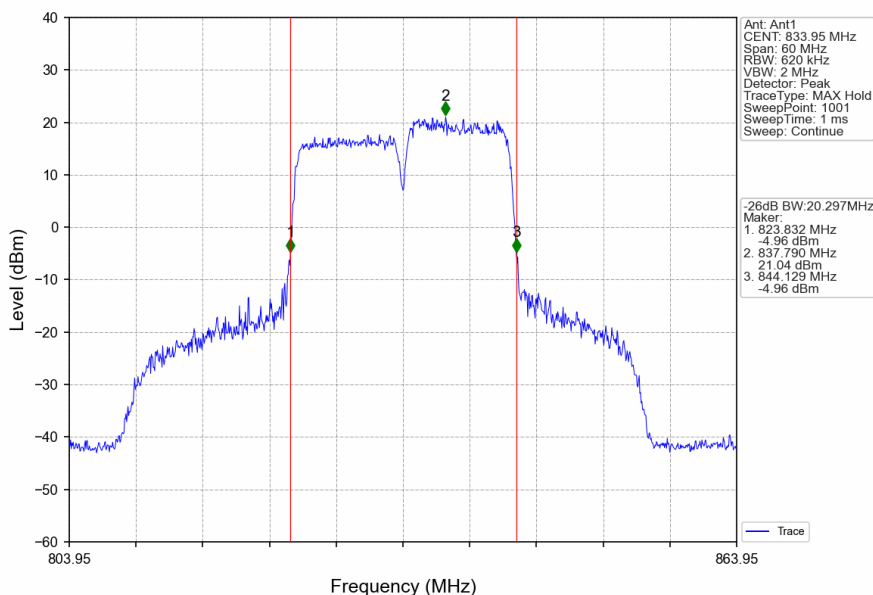


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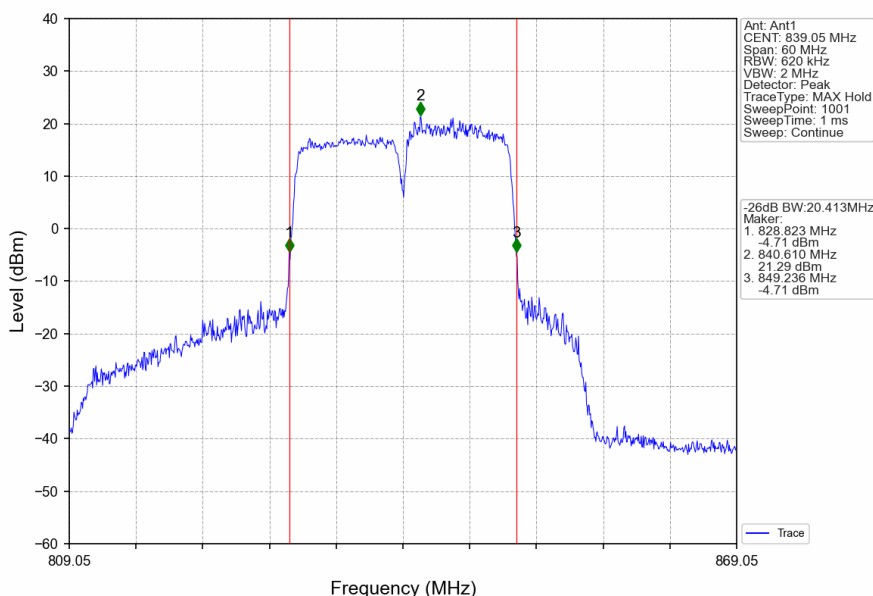
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CA\_5B\_SISO\_NTNV\_CC1:10 CC2:10MHz\_CC1:16QAM CC2:16QAM\_CC1:829 CC2:838.9MHz\_CC1: 50@0 CC2:  
50@0



CA\_5B\_SISO\_NTNV\_CC1:10 CC2:10MHz\_CC1:16QAM CC2:16QAM\_CC1:834.1 CC2:844MHz\_CC1: 50@0 CC2:  
50@0



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### 3. Spurious Emission

#### 3.1 Test Result

##### 3.1.1 CA\_5B\_NTNV

Band: CA_5B / NTNv								
BW (MHz)	Modulation	Frequency (MHz)	RB Allocation	Spurious Emission				Verdict
				CC1	CC2	Sum	Limit	
CC1:3 CC2:5	CC1: QPSK CC2: QPSK	CC1:825.5 CC2:829.4	CC1: 1@0 CC2: 1@0	Refer To Test Graph				Pass
			CC1: 15@0 CC2: 25@0	Refer To Test Graph				Pass
		CC1:842.6 CC2:846.5	CC1: 1@0 CC2: 1@0	Refer To Test Graph				Pass
			CC1: 1@14 CC2: 1@24	Refer To Test Graph				Pass
			CC1: 15@0 CC2: 25@0	Refer To Test Graph				Pass
	CC1: 16QAM CC2: 16QAM	CC1:825.5 CC2:829.4	CC1: 1@0 CC2: 1@0	Refer To Test Graph				Pass
			CC1: 15@0 CC2: 25@0	Refer To Test Graph				Pass
		CC1:842.6 CC2:846.5	CC1: 1@0 CC2: 1@0	Refer To Test Graph				Pass
			CC1: 1@14 CC2: 1@24	Refer To Test Graph				Pass
			CC1: 15@0 CC2: 25@0	Refer To Test Graph				Pass
CC1:5 CC2:3	CC1: QPSK CC2: QPSK	CC1:826.5 CC2:830.4	CC1: 1@0 CC2: 1@0	Refer To Test Graph				Pass
			CC1: 25@0 CC2: 15@0	Refer To Test Graph				Pass
		CC1:843.6 CC2:847.5	CC1: 1@0 CC2: 1@0	Refer To Test Graph				Pass
			CC1: 1@24 CC2: 1@14	Refer To Test Graph				Pass



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	CC1: 16QAM CC2: 16QAM	CC1:826.5 CC2:830.4	CC1: 25@0 CC2: 15@0	Refer To Test Graph	Pass
			CC1: 1@0 CC2: 1@0	Refer To Test Graph	Pass
			CC1: 25@0 CC2: 15@0	Refer To Test Graph	Pass
			CC1: 1@0 CC2: 1@0	Refer To Test Graph	Pass
			CC1: 1@24 CC2: 1@14	Refer To Test Graph	Pass
			CC1: 25@0 CC2: 15@0	Refer To Test Graph	Pass
CC1:5 CC2:10	CC1: QPSK CC2: QPSK	CC1:826.5 CC2:833.7	CC1: 1@0 CC2: 1@0	Refer To Test Graph	Pass
			CC1: 25@0 CC2: 50@0	Refer To Test Graph	Pass
		CC1:836.8 CC2:844	CC1: 1@0 CC2: 1@0	Refer To Test Graph	Pass
			CC1: 1@24 CC2: 1@49	Refer To Test Graph	Pass
			CC1: 25@0 CC2: 50@0	Refer To Test Graph	Pass
			CC1: 25@0 CC2: 50@0	Refer To Test Graph	Pass
	CC1: 16QAM CC2: 16QAM	CC1:826.5 CC2:833.7	CC1: 1@0 CC2: 1@0	Refer To Test Graph	Pass
			CC1: 25@0 CC2: 50@0	Refer To Test Graph	Pass
		CC1:836.8 CC2:844	CC1: 1@0 CC2: 1@0	Refer To Test Graph	Pass
			CC1: 1@24 CC2: 1@49	Refer To Test Graph	Pass
			CC1: 25@0 CC2: 50@0	Refer To Test Graph	Pass
			CC1: 25@0 CC2: 50@0	Refer To Test Graph	Pass
CC1:10 CC2:5	CC1: QPSK CC2: QPSK	CC1:829 CC2:836.2	CC1: 1@0 CC2: 1@0	Refer To Test Graph	Pass
			CC1: 50@0 CC2: 25@0	Refer To Test Graph	Pass
		CC1:839.3 CC2:846.5	CC1: 1@0 CC2: 1@0	Refer To Test Graph	Pass



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			CC1: 1@49 CC2: 1@24	Refer To Test Graph	Pass
			CC1: 50@0 CC2: 25@0	Refer To Test Graph	Pass
	CC1: 16QAM CC2: 16QAM	CC1:829 CC2:836.2	CC1: 1@0 CC2: 1@0	Refer To Test Graph	Pass
			CC1: 50@0 CC2: 25@0	Refer To Test Graph	Pass
		CC1:839.3 CC2:846.5	CC1: 1@0 CC2: 1@0	Refer To Test Graph	Pass
			CC1: 1@49 CC2: 1@24	Refer To Test Graph	Pass
			CC1: 50@0 CC2: 25@0	Refer To Test Graph	Pass
CC1:10 CC2:10	CC1: QPSK CC2: QPSK	CC1:829 CC2:838.9	CC1: 1@0 CC2: 1@0	Refer To Test Graph	Pass
			CC1: 50@0 CC2: 50@0	Refer To Test Graph	Pass
		CC1:834.1 CC2:844	CC1: 1@0 CC2: 1@0	Refer To Test Graph	Pass
			CC1: 1@49 CC2: 1@49	Refer To Test Graph	Pass
			CC1: 50@0 CC2: 50@0	Refer To Test Graph	Pass
	CC1: 16QAM CC2: 16QAM	CC1:829 CC2:838.9	CC1: 1@0 CC2: 1@0	Refer To Test Graph	Pass
			CC1: 50@0 CC2: 50@0	Refer To Test Graph	Pass
		CC1:834.1 CC2:844	CC1: 1@0 CC2: 1@0	Refer To Test Graph	Pass
			CC1: 1@49 CC2: 1@49	Refer To Test Graph	Pass
			CC1: 50@0 CC2: 50@0	Refer To Test Graph	Pass



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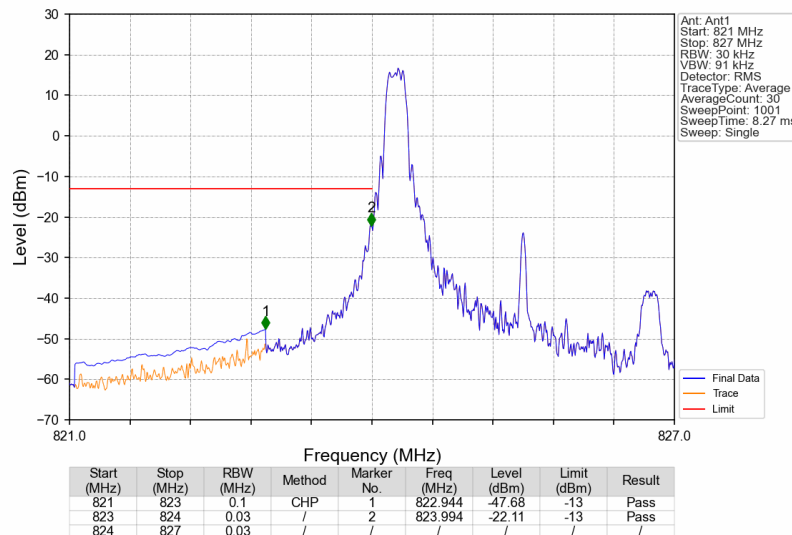
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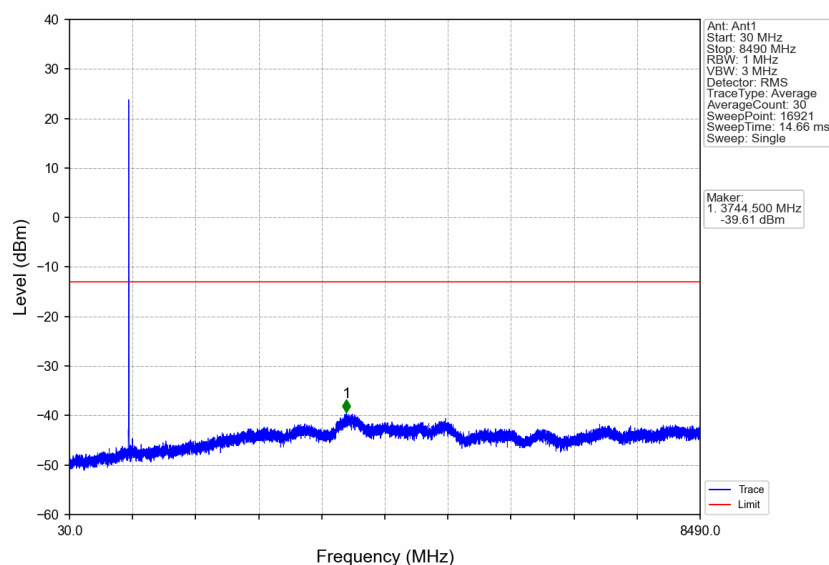
### 3.2 Test Graph

#### 3.2.1 CA\_5B\_NTNV

CA\_5B\_SISO\_NTNV\_CC1:3 CC2:5MHz\_CC1:QPSK CC2:QPSK\_CC1:825.5 CC2:829.4MHz\_CC1: 1@0 CC2: 1@0



CA\_5B\_SISO\_NTNV\_CC1:3 CC2:5MHz\_CC1:QPSK CC2:QPSK\_CC1:825.5 CC2:829.4MHz\_CC1: 1@0 CC2: 1@0

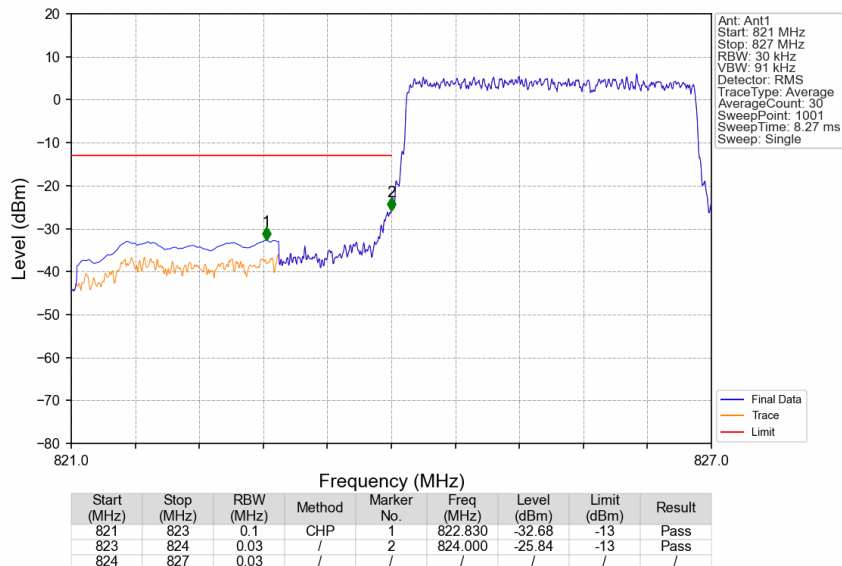


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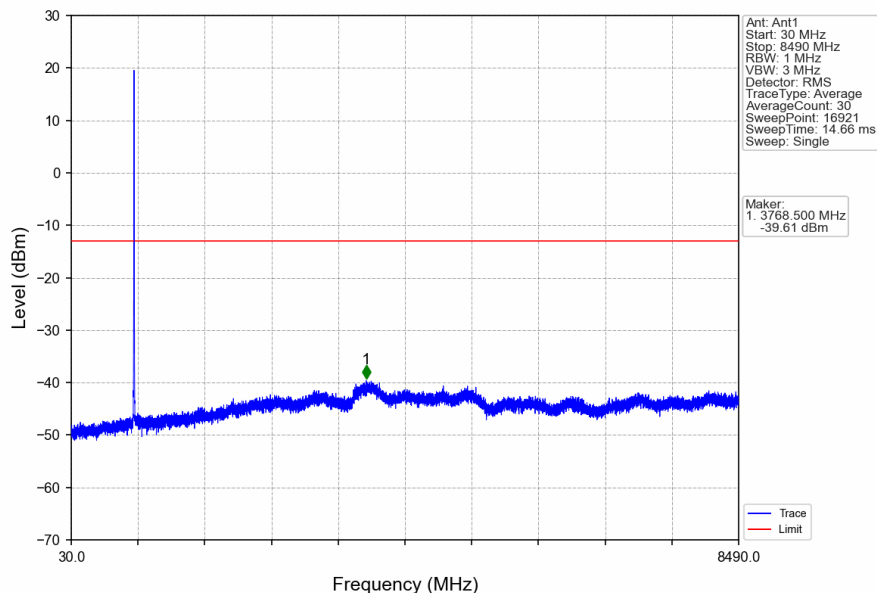
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CA\_5B\_SISO\_NTNV\_CC1:3 CC2:5MHz\_CC1:QPSK CC2:QPSK\_CC1:825.5 CC2:829.4MHz\_CC1: 15@0 CC2: 25@0



CA\_5B\_SISO\_NTNV\_CC1:3 CC2:5MHz\_CC1:QPSK CC2:QPSK\_CC1:825.5 CC2:829.4MHz\_CC1: 15@0 CC2: 25@0

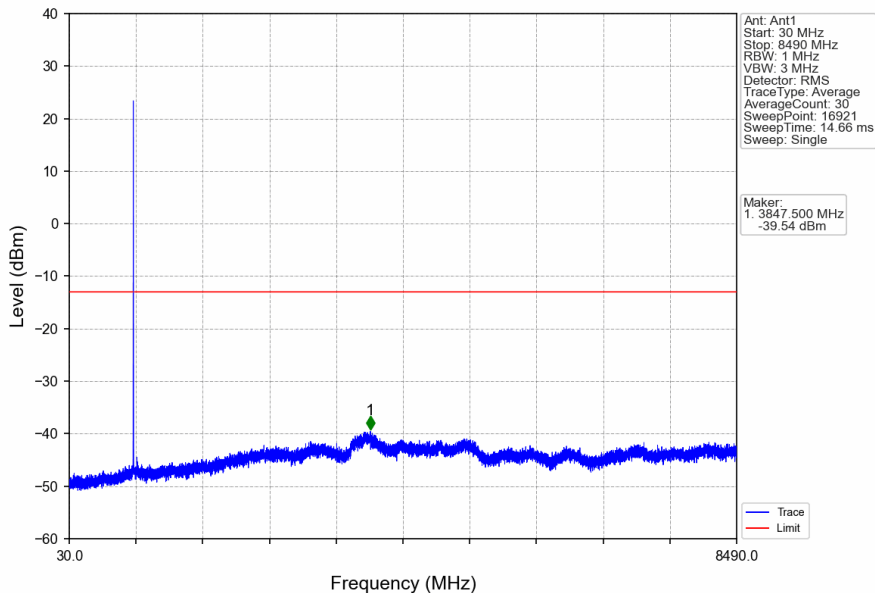


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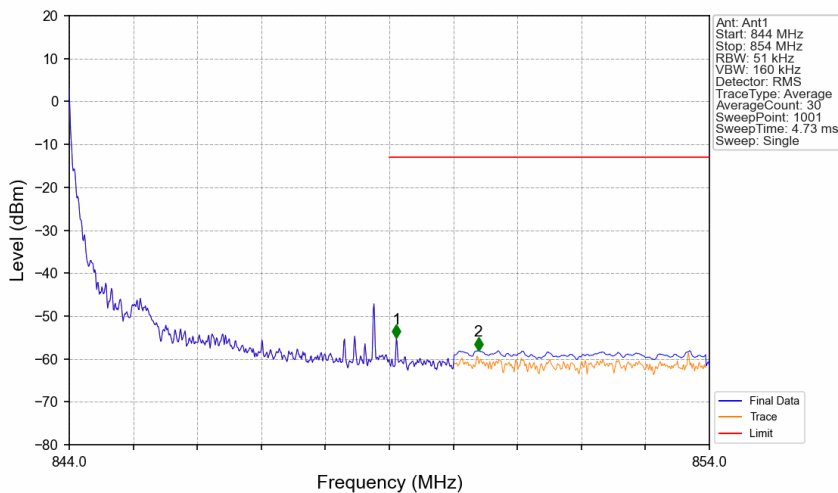
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CA\_5B\_SISO\_NTNV\_CC1:3 CC2:5MHz\_CC1:QPSK CC2:QPSK\_CC1:842.6 CC2:846.5MHz\_CC1: 1@0 CC2: 1@0



CA\_5B\_SISO\_NTNV\_CC1:3 CC2:5MHz\_CC1:QPSK CC2:QPSK\_CC1:842.6 CC2:846.5MHz\_CC1: 1@14 CC2: 1@24



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
844	849	0.051	/	/	/	/	/	/
849	850	0.051	/	1	849.110	-55.18	-13	Pass
850	854	0.1	CHP	2	850.390	-58.04	-13	Pass



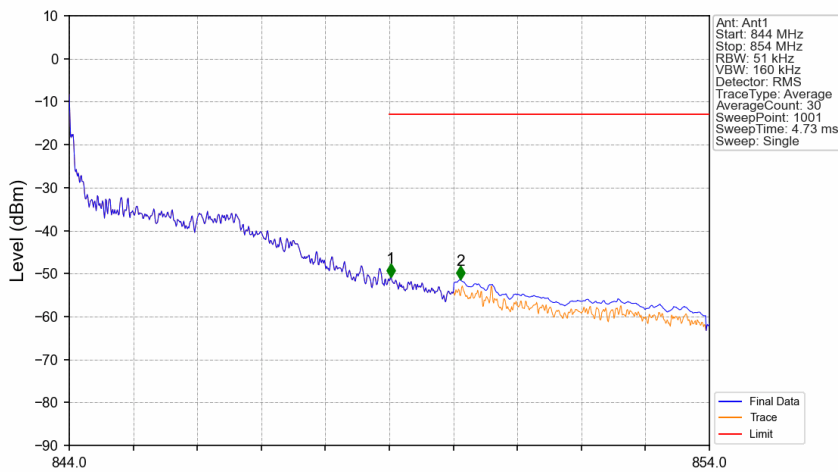
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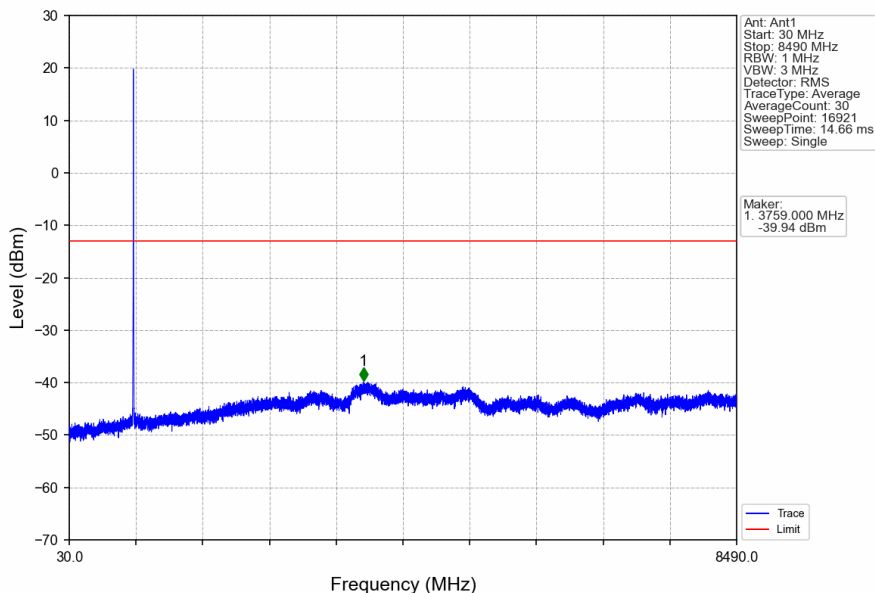


CA\_5B\_SISO\_NTNV\_CC1:3 CC2:5MHz\_CC1:QPSK CC2:QPSK\_CC1:842.6 CC2:846.5MHz\_CC1: 15@0 CC2: 25@0



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
844	849	0.051	/	1	849.020	-50.91	-13	Pass
849	850	0.051	/	2	850.110	-51.45	-13	Pass

CA\_5B\_SISO\_NTNV\_CC1:3 CC2:5MHz\_CC1:QPSK CC2:QPSK\_CC1:842.6 CC2:846.5MHz\_CC1: 15@0 CC2: 25@0

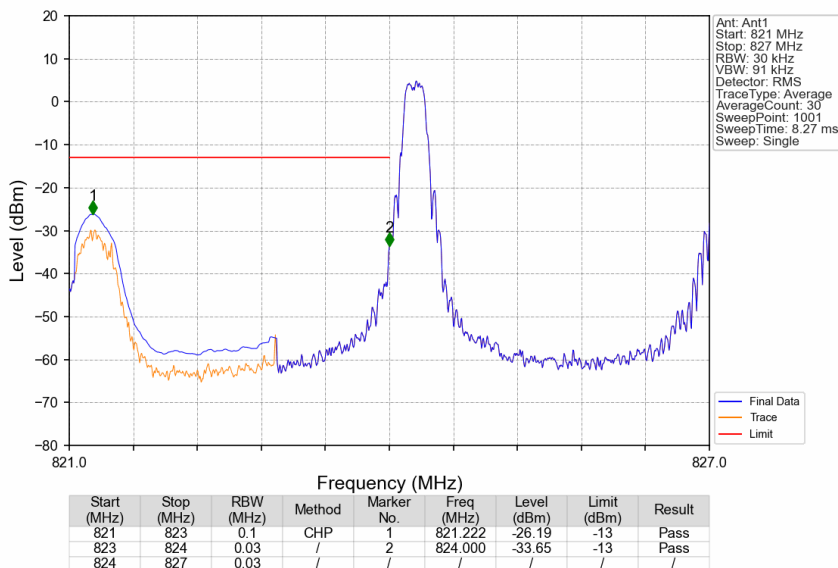


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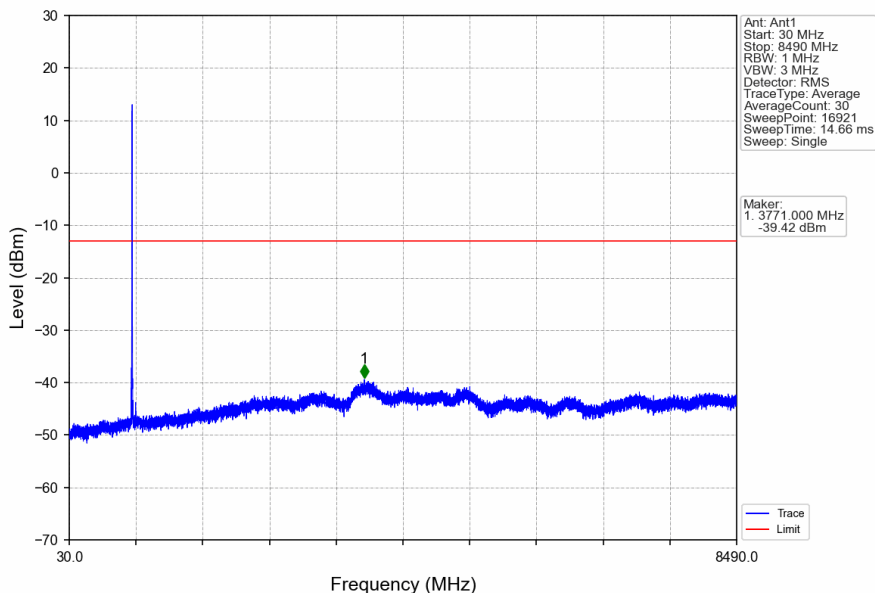
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CA\_5B\_SISO\_NTNV\_CC1:3 CC2:5MHz\_CC1:16QAM CC2:16QAM\_CC1:825.5 CC2:829.4MHz\_CC1: 1@0 CC2: 1@0



CA\_5B\_SISO\_NTNV\_CC1:3 CC2:5MHz\_CC1:16QAM CC2:16QAM\_CC1:825.5 CC2:829.4MHz\_CC1: 1@0 CC2: 1@0

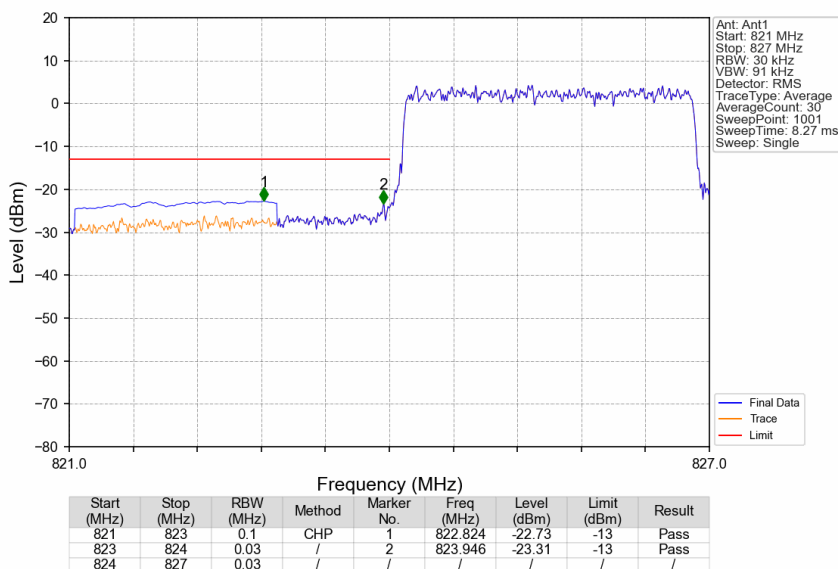


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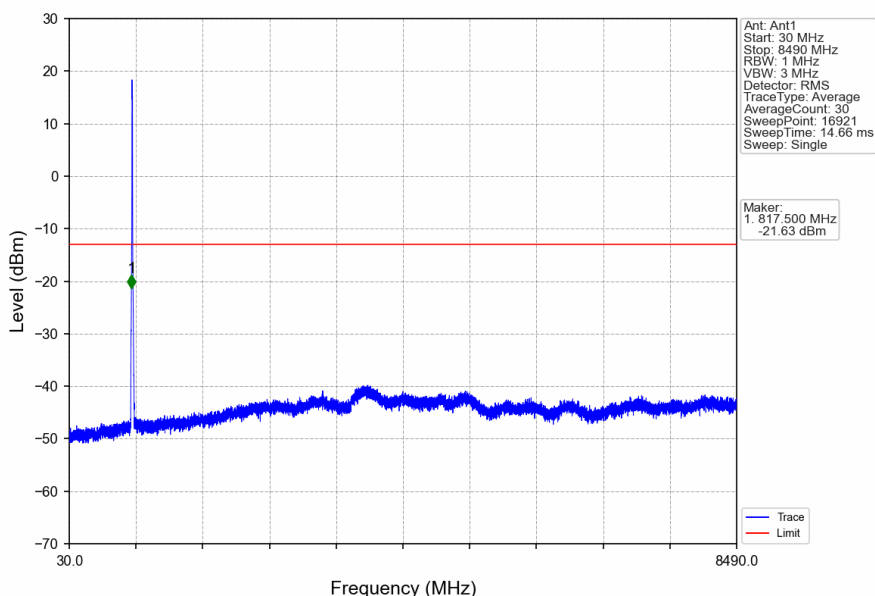
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CA\_5B\_SISO\_NTNV\_CC1:3 CC2:5MHz\_CC1:16QAM CC2:16QAM\_CC1:825.5 CC2:829.4MHz\_CC1: 15@0 CC2: 25@0



CA\_5B\_SISO\_NTNV\_CC1:3 CC2:5MHz\_CC1:16QAM CC2:16QAM\_CC1:825.5 CC2:829.4MHz\_CC1: 15@0 CC2: 25@0

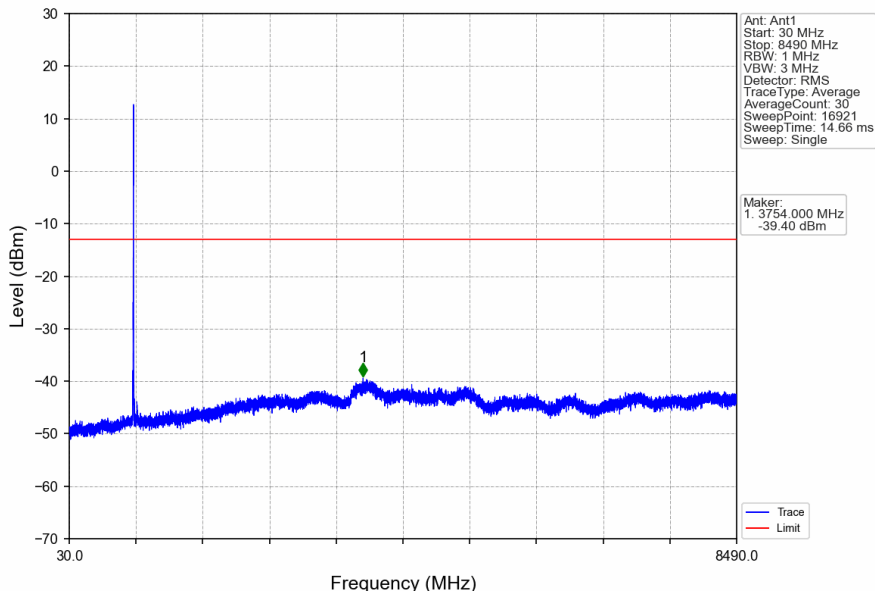


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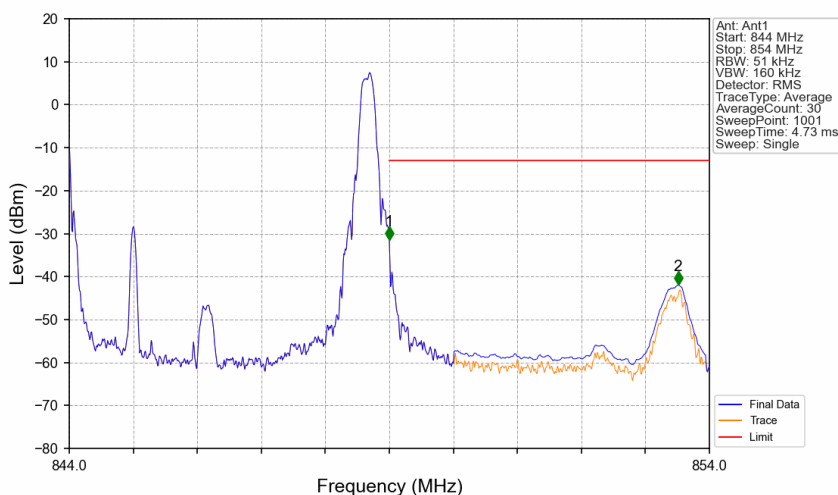
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CA\_5B\_SISO\_NTNV\_CC1:3 CC2:5MHz\_CC1:16QAM CC2:16QAM\_CC1:842.6 CC2:846.5MHz\_CC1: 1@0 CC2: 1@0



CA\_5B\_SISO\_NTNV\_CC1:3 CC2:5MHz\_CC1:16QAM CC2:16QAM\_CC1:842.6 CC2:846.5MHz\_CC1: 1@14 CC2: 1@24



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
844	849	0.051	/	/	/	/	/	/
849	850	0.051	/	1	849.000	-31.57	-13	Pass
850	854	0.1	CHP	2	853.510	-41.96	-13	Pass

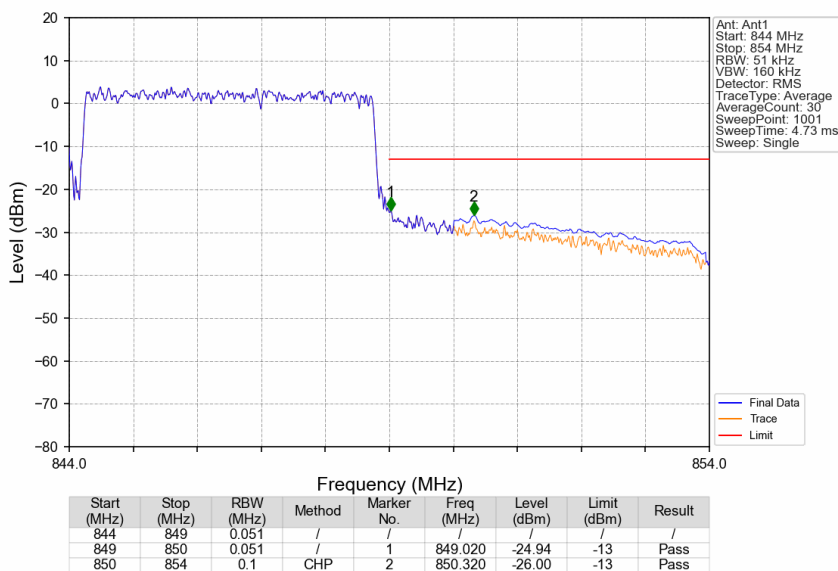


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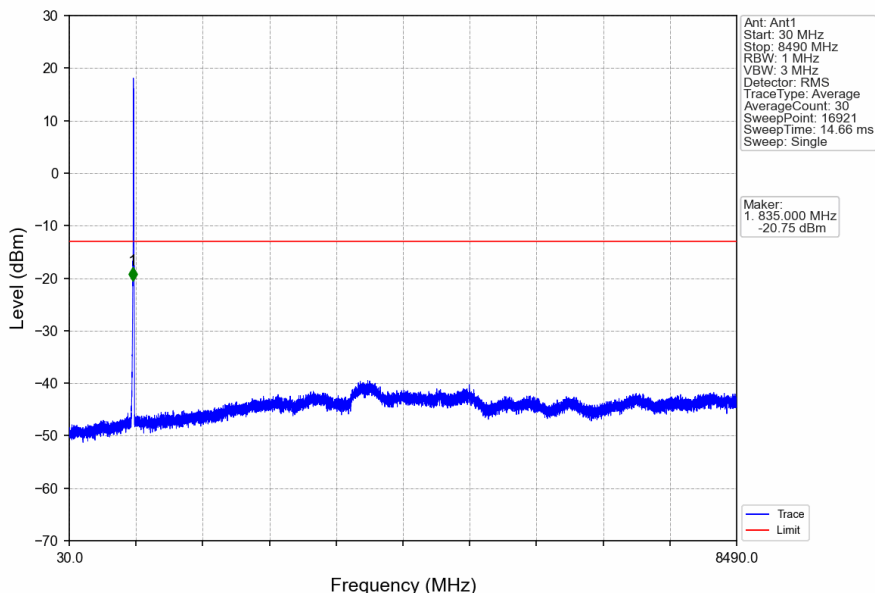
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CA\_5B\_SISO\_NTNV\_CC1:3 CC2:5MHz\_CC1:16QAM CC2:16QAM\_CC1:842.6 CC2:846.5MHz\_CC1: 15@0 CC2: 25@0



CA\_5B\_SISO\_NTNV\_CC1:3 CC2:5MHz\_CC1:16QAM CC2:16QAM\_CC1:842.6 CC2:846.5MHz\_CC1: 15@0 CC2: 25@0



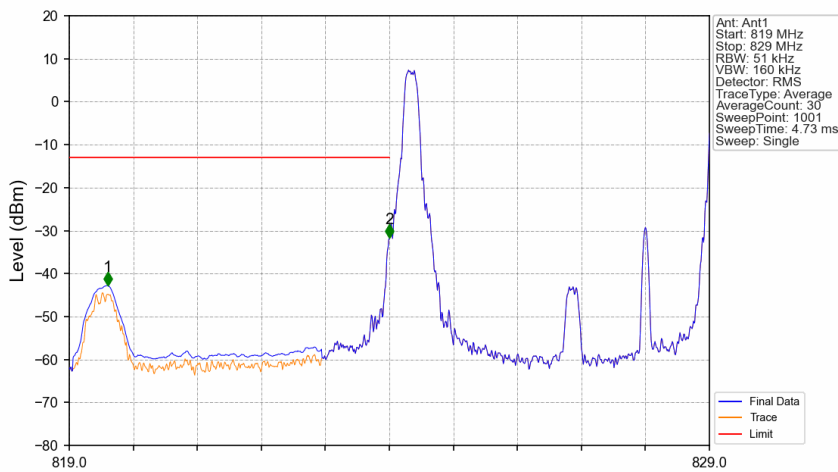
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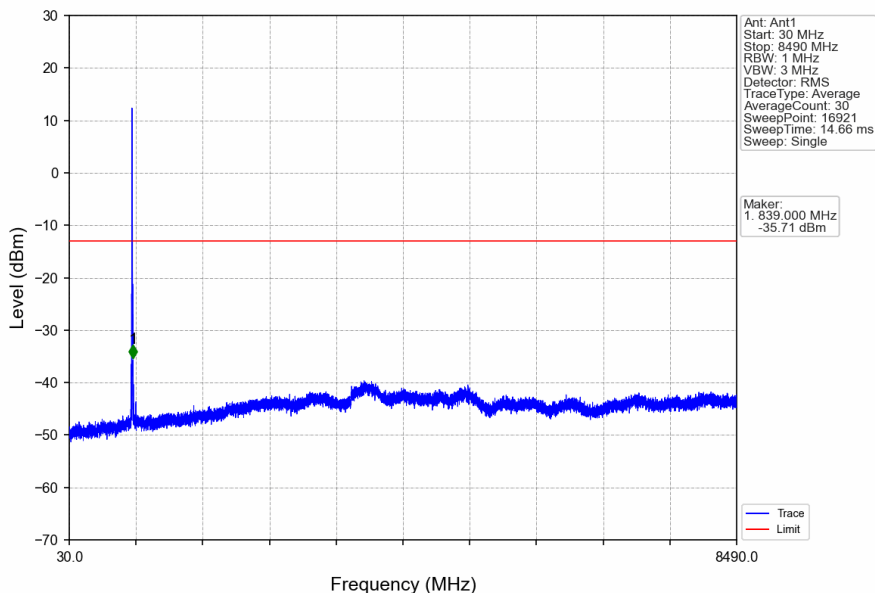
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CA\_5B\_SISO\_NTNV\_CC1:5 CC2:3MHz\_CC1:QPSK CC2:QPSK\_CC1:826.5 CC2:830.4MHz\_CC1: 1@0 CC2: 1@0



CA\_5B\_SISO\_NTNV\_CC1:5 CC2:3MHz\_CC1:QPSK CC2:QPSK\_CC1:826.5 CC2:830.4MHz\_CC1: 1@0 CC2: 1@0

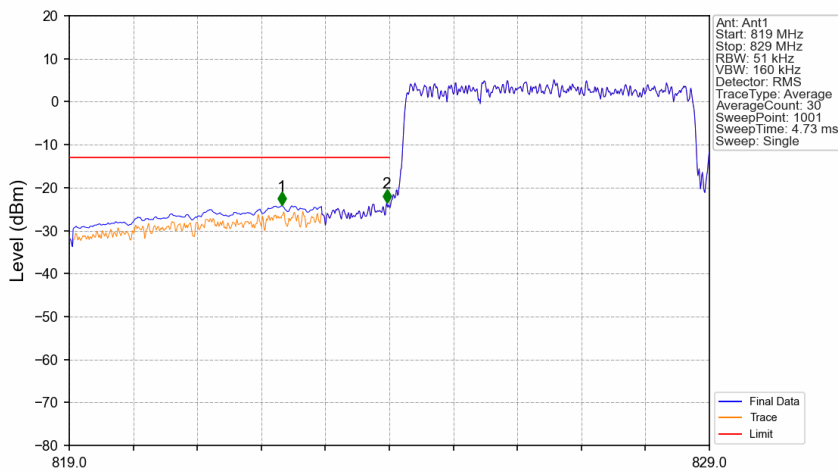


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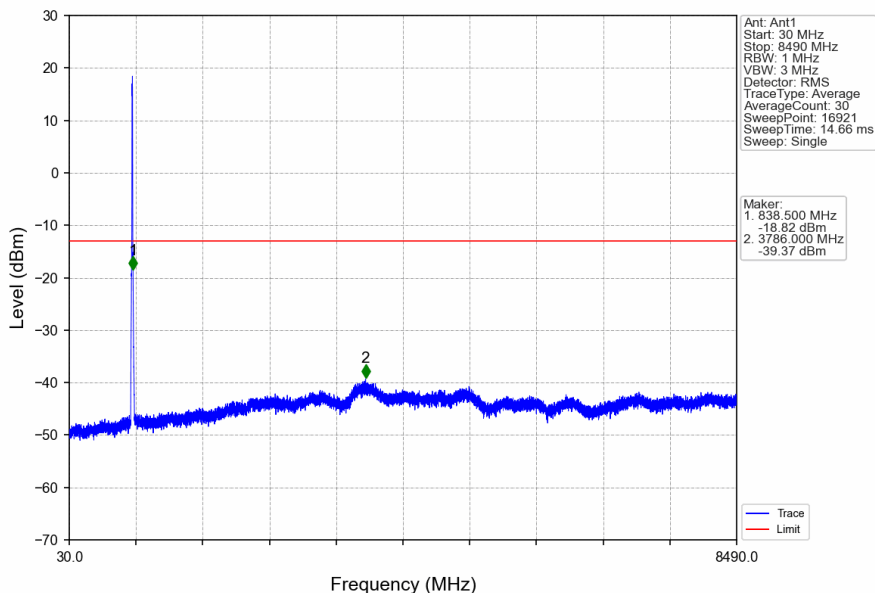
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CA\_5B\_SISO\_NTNV\_CC1:5 CC2:3MHz\_CC1:QPSK CC2:QPSK\_CC1:826.5 CC2:830.4MHz\_CC1: 25@0 CC2: 15@0



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
819	823	0.1	CHP	1	822.320	-24.16	-13	Pass
823	824	0.051	/	2	823.960	-23.48	-13	Pass
824	829	0.051	/	/	/	/	/	/

CA\_5B\_SISO\_NTNV\_CC1:5 CC2:3MHz\_CC1:QPSK CC2:QPSK\_CC1:826.5 CC2:830.4MHz\_CC1: 25@0 CC2: 15@0

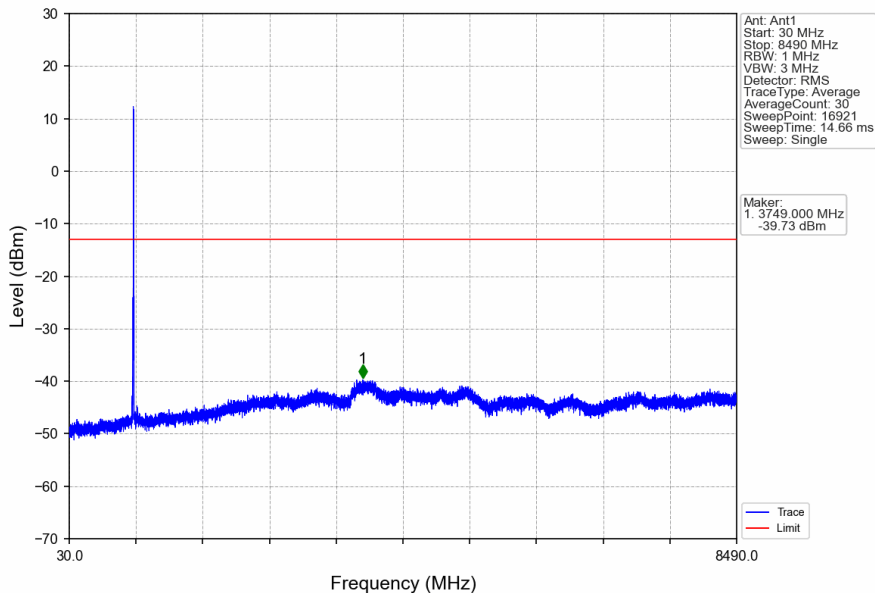


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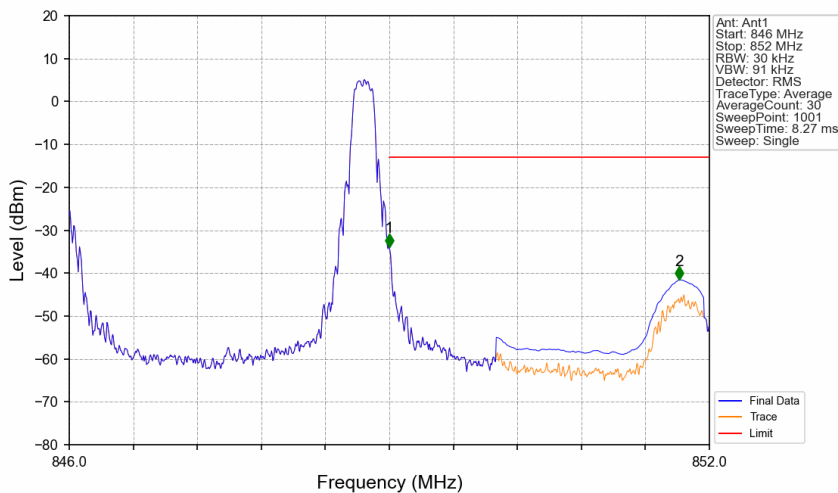
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CA\_5B\_SISO\_NTNV\_CC1:5 CC2:3MHz\_CC1:QPSK CC2:QPSK\_CC1:843.6 CC2:847.5MHz\_CC1: 1@0 CC2: 1@0



CA\_5B\_SISO\_NTNV\_CC1:5 CC2:3MHz\_CC1:QPSK CC2:QPSK\_CC1:843.6 CC2:847.5MHz\_CC1: 1@24 CC2: 1@14



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
846	849	0.03	/	/	/	/	/	/
849	850	0.03	/	1	849.000	-33.89	-13	Pass
850	852	0.1	CHP	2	851.718	-41.54	-13	Pass

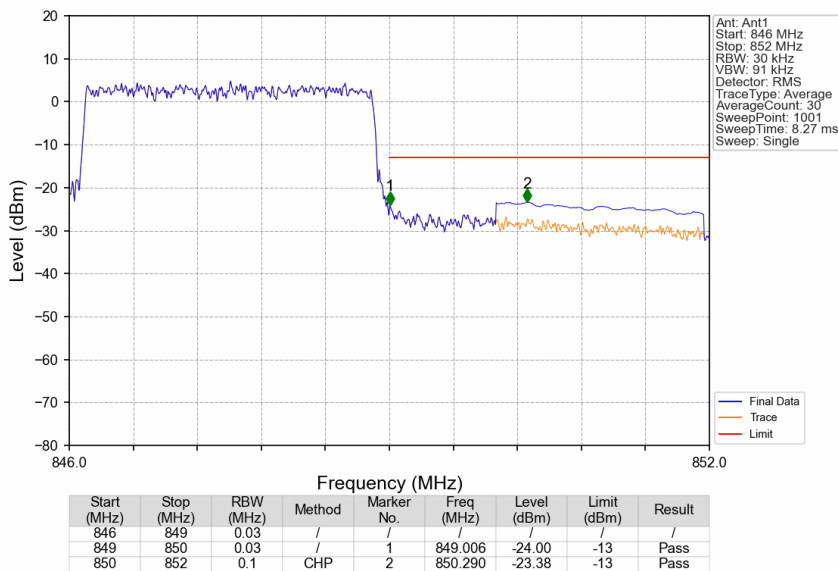


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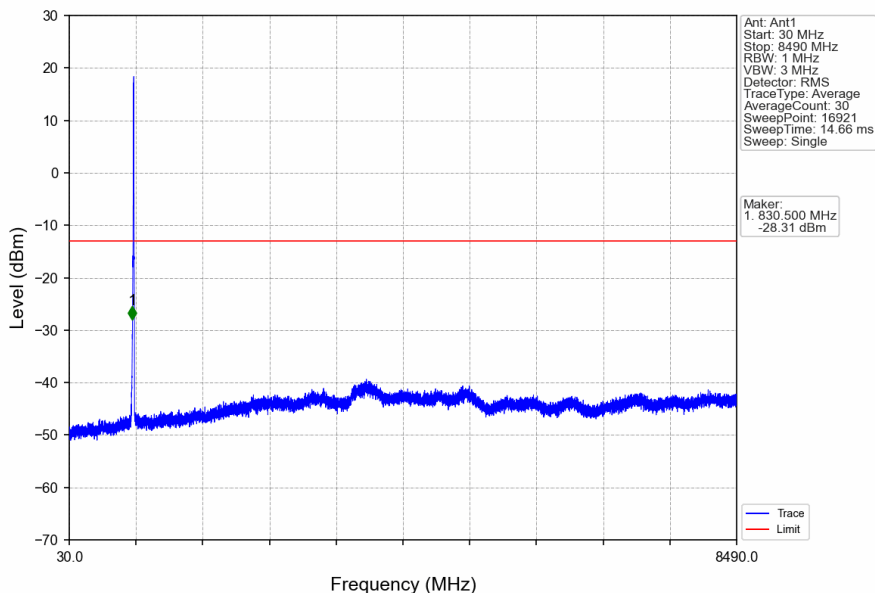
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CA\_5B\_SISO\_NTNV\_CC1:5 CC2:3MHz\_CC1:QPSK CC2:QPSK\_CC1:843.6 CC2:847.5MHz\_CC1: 25@0 CC2: 15@0



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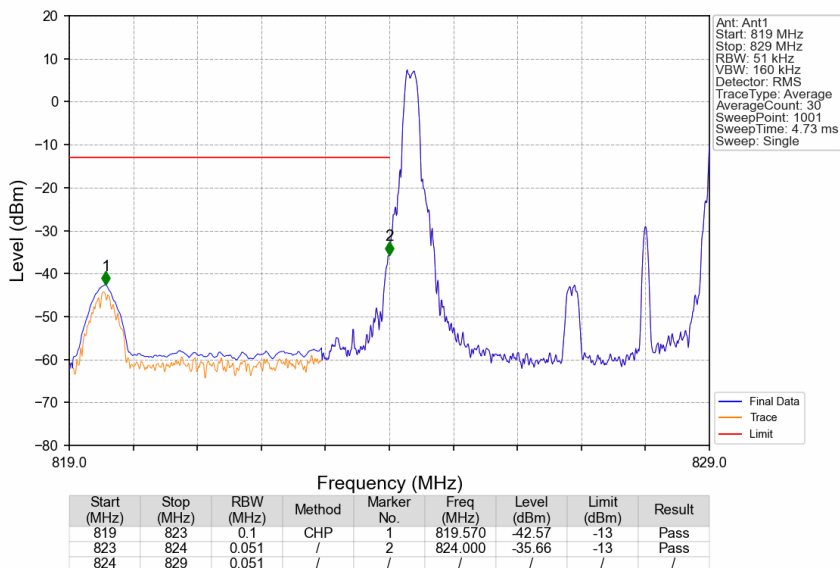


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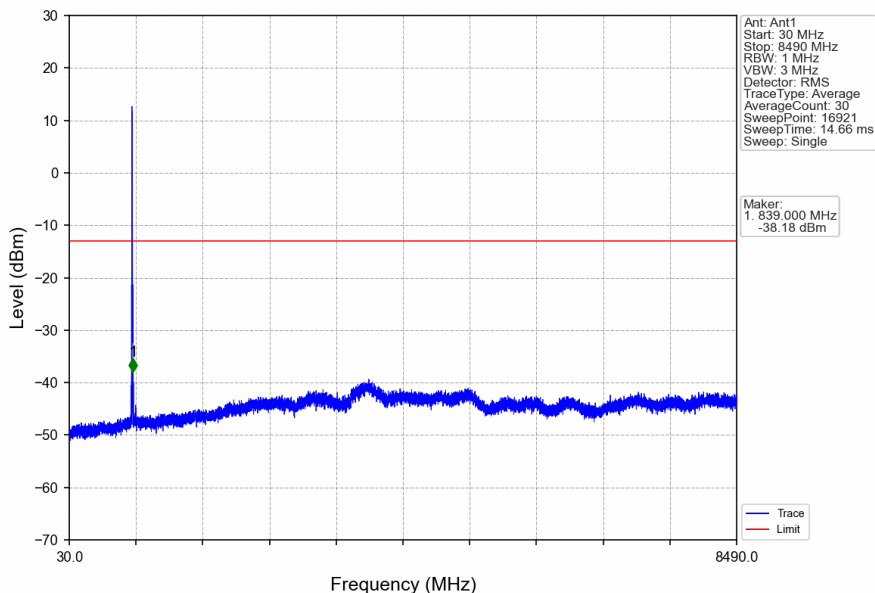
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CA\_5B\_SISO\_NTNV\_CC1:5 CC2:3MHz\_CC1:16QAM CC2:16QAM\_CC1:826.5 CC2:830.4MHz\_CC1: 1@0 CC2: 1@0



CA\_5B\_SISO\_NTNV\_CC1:5 CC2:3MHz\_CC1:16QAM CC2:16QAM\_CC1:826.5 CC2:830.4MHz\_CC1: 1@0 CC2: 1@0



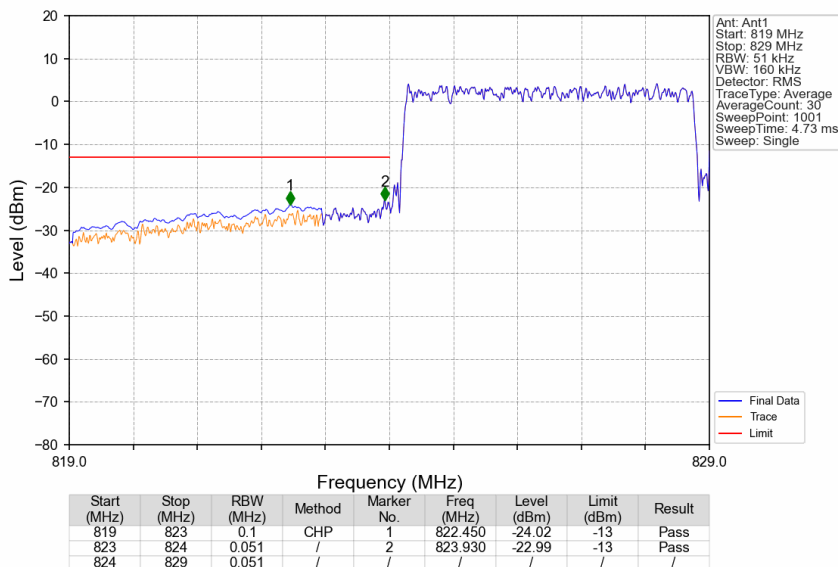
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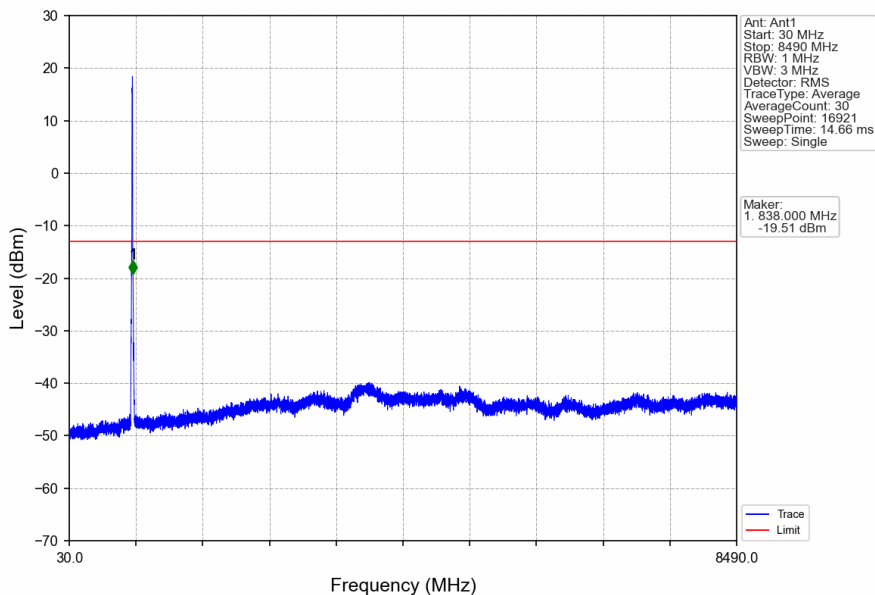
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CA\_5B\_SISO\_NTNV\_CC1:5 CC2:3MHz\_CC1:16QAM CC2:16QAM\_CC1:826.5 CC2:830.4MHz\_CC1: 25@0 CC2: 15@0



CA\_5B\_SISO\_NTNV\_CC1:5 CC2:3MHz\_CC1:16QAM CC2:16QAM\_CC1:826.5 CC2:830.4MHz\_CC1: 25@0 CC2: 15@0

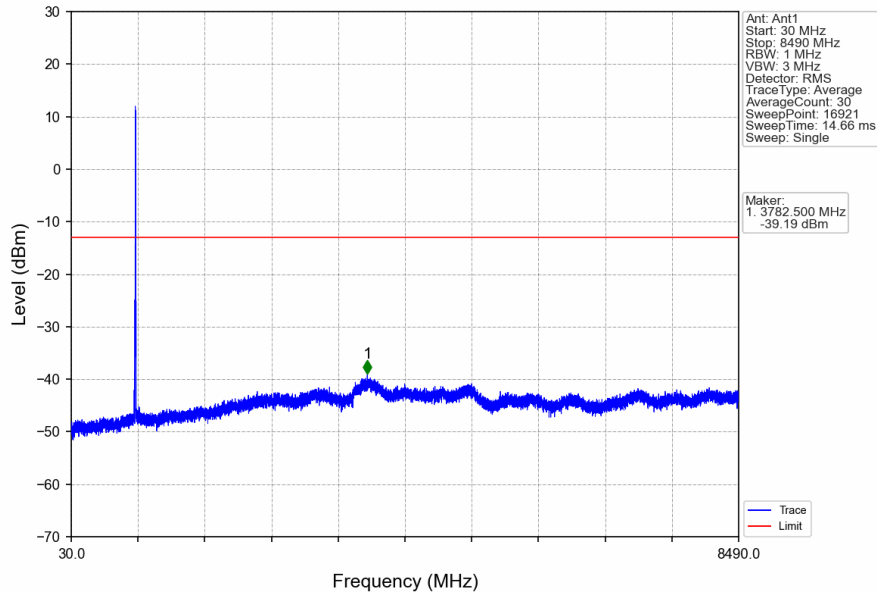


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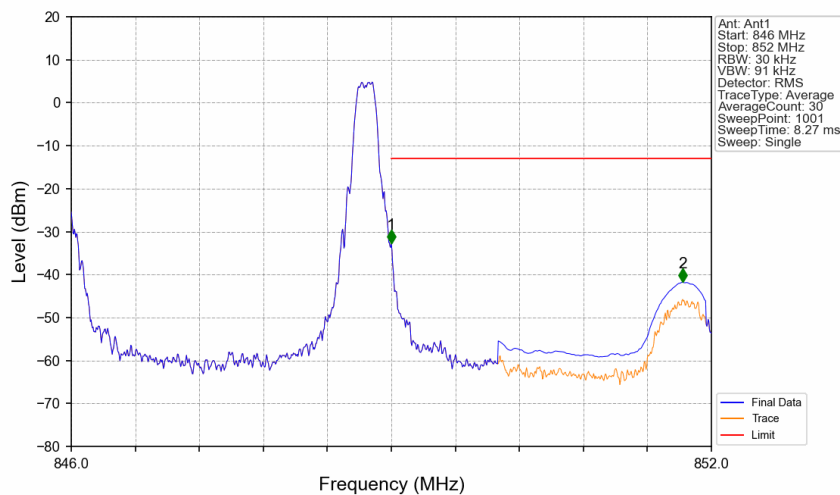
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CA\_5B\_SISO\_NTNV\_CC1:5 CC2:3MHz\_CC1:16QAM CC2:16QAM\_CC1:843.6 CC2:847.5MHz\_CC1: 1@0 CC2: 1@0



CA\_5B\_SISO\_NTNV\_CC1:5 CC2:3MHz\_CC1:16QAM CC2:16QAM\_CC1:843.6 CC2:847.5MHz\_CC1: 1@24 CC2: 1@14



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
846	849	0.03	/	/	/	/	/	/
849	850	0.03	/	1	849.000	-32.73	-13	Pass
850	852	0.1	CHP	2	851.730	-41.79	-13	Pass

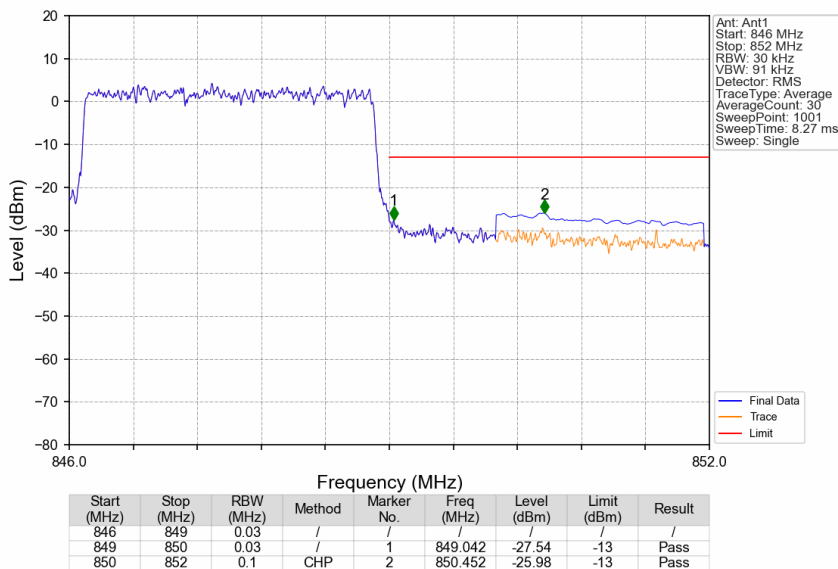


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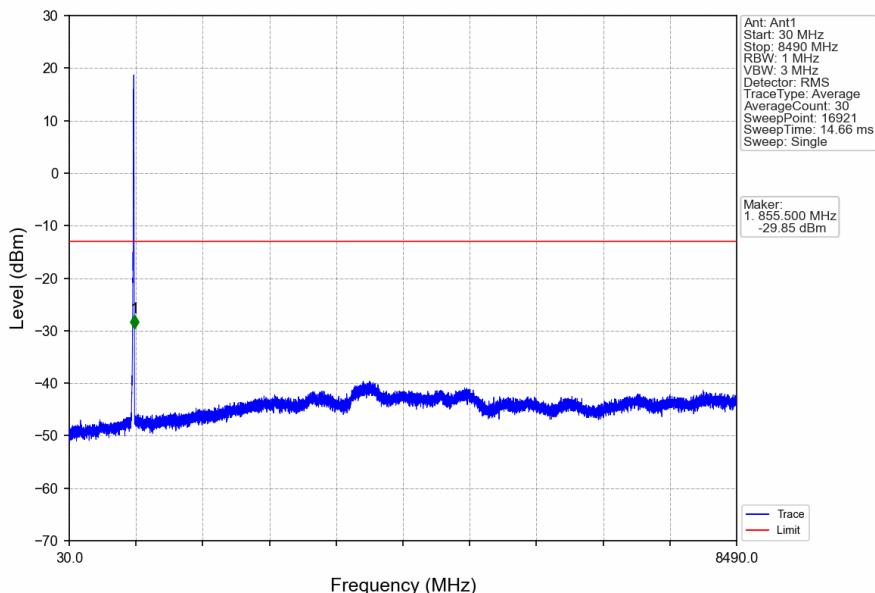
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CA\_5B\_SISO\_NTNV\_CC1:5 CC2:3MHz\_CC1:16QAM CC2:16QAM\_CC1:843.6 CC2:847.5MHz\_CC1: 25@0 CC2: 15@0



CA\_5B\_SISO\_NTNV\_CC1:5 CC2:3MHz\_CC1:16QAM CC2:16QAM\_CC1:843.6 CC2:847.5MHz\_CC1: 25@0 CC2: 15@0



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