1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B13_5MHz_ERP

Band: 13 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	779.5	1	0	24.23	-4.70	17.38	<=34.77	Pass
			13	24.20	-4.70	17.35	<=34.77	Pass
			24	24.02	-4.70	17.17	<=34.77	Pass
		12	0	23.10	-4.70	16.25	<=34.77	Pass
			6	23.29	-4.70	16.44	<=34.77	Pass
			13	23.23	-4.70	16.38	<=34.77	Pass
		25	0	23.22	-4.70	16.37	<=34.77	Pass
	782	1	0	24.25	-4.70	17.40	<=34.77	Pass
			13	24.33	-4.70	17.48	<=34.77	Pass
			24	24.19	-4.70	17.34	<=34.77	Pass
		12	0	23.23	-4.70	16.38	<=34.77	Pass
			6	23.19	-4.70	16.34	<=34.77	Pass
			13	23.23	-4.70	16.38	<=34.77	Pass
		25	0	23.15	-4.70	16.30	<=34.77	Pass
	784.5	1	0	24.25	-4.70	17.40	<=34.77	Pass
			13	24.33	-4.70	17.48	<=34.77	Pass
			24	24.17	-4.70	17.32	<=34.77	Pass
		12	0	23.13	-4.70	16.28	<=34.77	Pass
			6	23.24	-4.70	16.39	<=34.77	Pass
			13	23.25	-4.70	16.40	<=34.77	Pass
		25	0	23.20	-4.70	16.35	<=34.77	Pass
16QAM	779.5	1	0	23.43	-4.70	16.58	<=34.77	Pass
			13	23.41	-4.70	16.56	<=34.77	Pass
			24	23.31	-4.70	16.46	<=34.77	Pass
		12	0	22.29	-4.70	15.44	<=34.77	Pass
			6	22.33	-4.70	15.48	<=34.77	Pass
			13	22.34	-4.70	15.49	<=34.77	Pass
		25	0	22.26	-4.70	15.41	<=34.77	Pass
	782	1	0	23.11	-4.70	16.26	<=34.77	Pass
			13	23.34	-4.70	16.49	<=34.77	Pass
			24	23.47	-4.70	16.62	<=34.77	Pass
		12	0	22.24	-4.70	15.39	<=34.77	Pass
			6	22.29	-4.70	15.44	<=34.77	Pass
			13	22.13	-4.70	15.28	<=34.77	Pass
		25	0	22.24	-4.70	15.39	<=34.77	Pass
	784.5	1	0	23.59	-4.70	16.74	<=34.77	Pass
			13	23.14	-4.70	16.29	<=34.77	Pass
			24	22.47	-4.70	15.62	<=34.77	Pass
		12	0	22.16	-4.70	15.31	<=34.77	Pass
			6	22.27	-4.70	15.42	<=34.77	Pass
			13	22.25	-4.70	15.40	<=34.77	Pass
		25	0	22.27	-4.70	15.42	<=34.77	Pass
64QAM	779.5	1	0	23.21	-4.70	16.36	<=34.77	Pass
			13	23.11	-4.70	16.26	<=34.77	Pass
			24	22.95	-4.70	16.10	<=34.77	Pass
		12	0	22.10	-4.70	15.25	<=34.77	Pass

			6	22.31	-4.70	15.46	<=34.77	Pass
			13	22.26	-4.70	15.41	<=34.77	Pass
		25	0	22.22	-4.70	15.37	<=34.77	Pass
	782	1	0	23.29	-4.70	16.44	<=34.77	Pass
			13	22.34	-4.70	15.49	<=34.77	Pass
			24	22.65	-4.70	15.80	<=34.77	Pass
		12	0	22.21	-4.70	15.36	<=34.77	Pass
			6	22.18	-4.70	15.33	<=34.77	Pass
			13	22.24	-4.70	15.39	<=34.77	Pass
		25	0	22.14	-4.70	15.29	<=34.77	Pass
	784.5	1	0	23.33	-4.70	16.48	<=34.77	Pass
			13	23.02	-4.70	16.17	<=34.77	Pass
			24	23.05	-4.70	16.20	<=34.77	Pass
		12	0	22.16	-4.70	15.31	<=34.77	Pass
			6	22.21	-4.70	15.36	<=34.77	Pass
			13	22.25	-4.70	15.40	<=34.77	Pass
		25	0	22.22	-4.70	15.37	<=34.77	Pass
256QAM	779.5	1	0	19.26	-4.70	12.41	<=34.77	Pass
			13	19.38	-4.70	12.53	<=34.77	Pass
			24	19.11	-4.70	12.26	<=34.77	Pass
		12	0	19.09	-4.70	12.24	<=34.77	Pass
			6	19.32	-4.70	12.47	<=34.77	Pass
			13	19.15	-4.70	12.30	<=34.77	Pass
		25	0	19.28	-4.70	12.43	<=34.77	Pass
	782	1	0	18.91	-4.70	12.06	<=34.77	Pass
			13	19.27	-4.70	12.42	<=34.77	Pass
			24	19.06	-4.70	12.21	<=34.77	Pass
		12	0	19.32	-4.70	12.47	<=34.77	Pass
			6	19.17	-4.70	12.32	<=34.77	Pass
			13	19.23	-4.70	12.38	<=34.77	Pass
		25	0	19.13	-4.70	12.28	<=34.77	Pass
	784.5	1	0	19.17	-4.70	12.32	<=34.77	Pass
			13	19.12	-4.70	12.27	<=34.77	Pass
			24	18.99	-4.70	12.14	<=34.77	Pass
		12	0	19.11	-4.70	12.26	<=34.77	Pass
			6	19.16	-4.70	12.31	<=34.77	Pass
			13	19.21	-4.70	12.36	<=34.77	Pass
		25	0	19.22	-4.70	12.37	<=34.77	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

1.1.2 B13_10MHz_ERP

Band: 13 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	782	1	0	24.15	-4.70	17.30	<=34.77	Pass
			25	24.20	-4.70	17.35	<=34.77	Pass
			49	24.02	-4.70	17.17	<=34.77	Pass
		25	0	23.22	-4.70	16.37	<=34.77	Pass
			13	23.18	-4.70	16.33	<=34.77	Pass
			25	23.24	-4.70	16.39	<=34.77	Pass
		50	0	23.27	-4.70	16.42	<=34.77	Pass
16QAM	782	1	0	23.42	-4.70	16.57	<=34.77	Pass
			25	23.32	-4.70	16.47	<=34.77	Pass
			49	23.63	-4.70	16.78	<=34.77	Pass

		25	0	22.33	-4.70	15.48	<=34.77	Pass
			13	22.28	-4.70	15.43	<=34.77	Pass
			25	22.31	-4.70	15.46	<=34.77	Pass
		50	0	22.17	-4.70	15.32	<=34.77	Pass
64QAM	782	1	0	23.14	-4.70	16.29	<=34.77	Pass
			25	23.25	-4.70	16.40	<=34.77	Pass
			49	23.27	-4.70	16.42	<=34.77	Pass
		25	0	22.22	-4.70	15.37	<=34.77	Pass
			13	22.24	-4.70	15.39	<=34.77	Pass
			25	22.24	-4.70	15.39	<=34.77	Pass
		50	0	22.28	-4.70	15.43	<=34.77	Pass
256QAM	782	1	0	19.36	-4.70	12.51	<=34.77	Pass
			25	19.35	-4.70	12.50	<=34.77	Pass
			49	19.35	-4.70	12.50	<=34.77	Pass
		25	0	19.15	-4.70	12.30	<=34.77	Pass
			13	19.22	-4.70	12.37	<=34.77	Pass
			25	19.21	-4.70	12.36	<=34.77	Pass
		50	0	19.11	-4.70	12.26	<=34.77	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

2. Frequency Stability

2.1 Test Result

2.1.1 B13_5MHz

Band: 13 / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	779.5	25	0	20	3.65	3.700	0.0047	-2.5 to 2.5	Pass
					3.87	-5.500	-0.0071	-2.5 to 2.5	Pass
					4.45	4.200	0.0054	-2.5 to 2.5	Pass
				-30	3.87	1.800	0.0023	-2.5 to 2.5	Pass
				-20	3.87	2.800	0.0036	-2.5 to 2.5	Pass
				-10	3.87	-5.400	-0.0069	-2.5 to 2.5	Pass
				0	3.87	3.800	0.0049	-2.5 to 2.5	Pass
				10	3.87	4.800	0.0062	-2.5 to 2.5	Pass
				30	3.87	-7.800	-0.0100	-2.5 to 2.5	Pass
				40	3.87	2.700	0.0035	-2.5 to 2.5	Pass
				50	3.87	3.400	0.0044	-2.5 to 2.5	Pass
	782	25	0	20	3.65	4.700	0.0060	-2.5 to 2.5	Pass
					3.87	3.300	0.0042	-2.5 to 2.5	Pass
					4.45	2.900	0.0037	-2.5 to 2.5	Pass
				-30	3.87	2.100	0.0027	-2.5 to 2.5	Pass
				-20	3.87	2.000	0.0026	-2.5 to 2.5	Pass
				-10	3.87	0.200	0.0003	-2.5 to 2.5	Pass
				0	3.87	3.500	0.0045	-2.5 to 2.5	Pass
				10	3.87	1.900	0.0024	-2.5 to 2.5	Pass
				30	3.87	3.000	0.0038	-2.5 to 2.5	Pass
				40	3.87	12.700	0.0162	-2.5 to 2.5	Pass
				50	3.87	0.600	0.0008	-2.5 to 2.5	Pass
	784.5	25	0	20	3.65	5.300	0.0068	-2.5 to 2.5	Pass
					3.87	3.900	0.0050	-2.5 to 2.5	Pass
					4.45	19.500	0.0249	-2.5 to 2.5	Pass

				-30	3.87	4.500	0.0057	-2.5 to 2.5	Pass
				-20	3.87	3.700	0.0047	-2.5 to 2.5	Pass
				-10	3.87	2.400	0.0031	-2.5 to 2.5	Pass
				0	3.87	2.600	0.0033	-2.5 to 2.5	Pass
				10	3.87	1.000	0.0013	-2.5 to 2.5	Pass
				30	3.87	2.000	0.0025	-2.5 to 2.5	Pass
				40	3.87	1.000	0.0013	-2.5 to 2.5	Pass
				50	3.87	1.300	0.0017	-2.5 to 2.5	Pass
16QAM	779.5	25	0	20	3.65	4.500	0.0058	-2.5 to 2.5	Pass
					3.87	4.900	0.0063	-2.5 to 2.5	Pass
					4.45	4.400	0.0056	-2.5 to 2.5	Pass
				-30	3.87	5.600	0.0072	-2.5 to 2.5	Pass
				-20	3.87	2.500	0.0032	-2.5 to 2.5	Pass
				-10	3.87	3.800	0.0049	-2.5 to 2.5	Pass
				0	3.87	4.500	0.0058	-2.5 to 2.5	Pass
				10	3.87	3.100	0.0040	-2.5 to 2.5	Pass
				30	3.87	3.400	0.0044	-2.5 to 2.5	Pass
				40	3.87	4.400	0.0056	-2.5 to 2.5	Pass
				50	3.87	0.200	0.0003	-2.5 to 2.5	Pass
	782	25	0	20	3.65	1.200	0.0015	-2.5 to 2.5	Pass
					3.87	1.500	0.0019	-2.5 to 2.5	Pass
					4.45	1.400	0.0018	-2.5 to 2.5	Pass
				-30	3.87	0.800	0.0010	-2.5 to 2.5	Pass
				-20	3.87	1.800	0.0023	-2.5 to 2.5	Pass
				-10	3.87	2.700	0.0035	-2.5 to 2.5	Pass
				0	3.87	0.600	0.0008	-2.5 to 2.5	Pass
				10	3.87	1.900	0.0024	-2.5 to 2.5	Pass
				30	3.87	11.600	0.0148	-2.5 to 2.5	Pass
				40	3.87	1.700	0.0022	-2.5 to 2.5	Pass
				50	3.87	2.700	0.0035	-2.5 to 2.5	Pass
	784.5	25	0	20	3.65	2.000	0.0025	-2.5 to 2.5	Pass
					3.87	2.900	0.0037	-2.5 to 2.5	Pass
					4.45	3.400	0.0043	-2.5 to 2.5	Pass
				-30	3.87	17.600	0.0224	-2.5 to 2.5	Pass
				-20	3.87	3.400	0.0043	-2.5 to 2.5	Pass
				-10	3.87	1.400	0.0018	-2.5 to 2.5	Pass
				0	3.87	-6.800	-0.0087	-2.5 to 2.5	Pass
				10	3.87	2.300	0.0029	-2.5 to 2.5	Pass
				30	3.87	2.200	0.0028	-2.5 to 2.5	Pass
				40	3.87	1.800	0.0023	-2.5 to 2.5	Pass
				50	3.87	0.300	0.0004	-2.5 to 2.5	Pass
64QAM	779.5	25	0	20	3.65	-28.200	-0.0362	-2.5 to 2.5	Pass
					3.87	-40.900	-0.0525	-2.5 to 2.5	Pass
					4.45	-8.500	-0.0109	-2.5 to 2.5	Pass
				-30	3.87	-20.300	-0.0260	-2.5 to 2.5	Pass
				-20	3.87	-19.500	-0.0250	-2.5 to 2.5	Pass
				-10	3.87	10.800	0.0139	-2.5 to 2.5	Pass
				0	3.87	-12.900	-0.0165	-2.5 to 2.5	Pass
				10	3.87	-0.900	-0.0012	-2.5 to 2.5	Pass
				30	3.87	1.900	0.0024	-2.5 to 2.5	Pass
				40	3.87	32.600	0.0418	-2.5 to 2.5	Pass
				50	3.87	16.300	0.0209	-2.5 to 2.5	Pass
	782	25	0	20	3.65	10.400	0.0133	-2.5 to 2.5	Pass
					3.87	12.300	0.0157	-2.5 to 2.5	Pass
					4.45	44.100	0.0564	-2.5 to 2.5	Pass
				-30	3.87	-14.200	-0.0182	-2.5 to 2.5	Pass
				-20	3.87	8.500	0.0109	-2.5 to 2.5	Pass

				-10	3.87	20.000	0.0256	-2.5 to 2.5	Pass
				0	3.87	-29.500	-0.0377	-2.5 to 2.5	Pass
				10	3.87	23.500	0.0301	-2.5 to 2.5	Pass
				30	3.87	16.800	0.0215	-2.5 to 2.5	Pass
				40	3.87	25.800	0.0330	-2.5 to 2.5	Pass
				50	3.87	16.400	0.0210	-2.5 to 2.5	Pass
	784.5	25	0	20	3.65	22.900	0.0292	-2.5 to 2.5	Pass
					3.87	12.400	0.0158	-2.5 to 2.5	Pass
					4.45	-34.900	-0.0445	-2.5 to 2.5	Pass
				-30	3.87	-55.400	-0.0706	-2.5 to 2.5	Pass
				-20	3.87	-39.900	-0.0509	-2.5 to 2.5	Pass
				-10	3.87	-75.600	-0.0964	-2.5 to 2.5	Pass
				0	3.87	-20.600	-0.0263	-2.5 to 2.5	Pass
				10	3.87	11.600	0.0148	-2.5 to 2.5	Pass
				30	3.87	3.900	0.0050	-2.5 to 2.5	Pass
				40	3.87	37.700	0.0481	-2.5 to 2.5	Pass
				50	3.87	27.000	0.0344	-2.5 to 2.5	Pass
256QAM	779.5	25	0	20	3.65	0.000	0.0000	-2.5 to 2.5	Pass
					3.87	-0.500	-0.0006	-2.5 to 2.5	Pass
					4.45	3.300	0.0042	-2.5 to 2.5	Pass
				-30	3.87	4.000	0.0051	-2.5 to 2.5	Pass
				-20	3.87	5.200	0.0067	-2.5 to 2.5	Pass
				-10	3.87	2.900	0.0037	-2.5 to 2.5	Pass
				0	3.87	1.100	0.0014	-2.5 to 2.5	Pass
				10	3.87	-8.700	-0.0112	-2.5 to 2.5	Pass
				30	3.87	1.300	0.0017	-2.5 to 2.5	Pass
				40	3.87	0.800	0.0010	-2.5 to 2.5	Pass
				50	3.87	0.700	0.0009	-2.5 to 2.5	Pass
	782	25	0	20	3.65	1.000	0.0013	-2.5 to 2.5	Pass
					3.87	1.200	0.0015	-2.5 to 2.5	Pass
					4.45	13.000	0.0166	-2.5 to 2.5	Pass
				-30	3.87	13.100	0.0168	-2.5 to 2.5	Pass
				-20	3.87	2.400	0.0031	-2.5 to 2.5	Pass
				-10	3.87	1.100	0.0014	-2.5 to 2.5	Pass
				0	3.87	1.300	0.0017	-2.5 to 2.5	Pass
				10	3.87	2.300	0.0029	-2.5 to 2.5	Pass
				30	3.87	1.300	0.0017	-2.5 to 2.5	Pass
				40	3.87	-0.700	-0.0009	-2.5 to 2.5	Pass
				50	3.87	1.300	0.0017	-2.5 to 2.5	Pass
	784.5	25	0	20	3.65	0.700	0.0009	-2.5 to 2.5	Pass
					3.87	0.000	0.0000	-2.5 to 2.5	Pass
					4.45	-0.200	-0.0003	-2.5 to 2.5	Pass
				-30	3.87	-0.400	-0.0005	-2.5 to 2.5	Pass
				-20	3.87	0.200	0.0003	-2.5 to 2.5	Pass
				-10	3.87	-0.700	-0.0009	-2.5 to 2.5	Pass
				0	3.87	1.200	0.0015	-2.5 to 2.5	Pass
				10	3.87	1.400	0.0018	-2.5 to 2.5	Pass
				30	3.87	1.500	0.0019	-2.5 to 2.5	Pass
				40	3.87	1.500	0.0019	-2.5 to 2.5	Pass
				50	3.87	1.100	0.0014	-2.5 to 2.5	Pass

2.1.2 B13_10MHz

Band: 13 / Bandwidth: 10MHz							
Modulation	Frequency	RB Allocation	Temp.	Voltage	Freq. Error	Freq. vs. Rated (ppm)	Verdict

	(MHz)	Size	Offset	(°C)	(VDC)	(Hz)	Result	Limit	
QPSK	782	50	0	20	3.65	1.100	0.0014	-2.5 to 2.5	Pass
					3.87	2.100	0.0027	-2.5 to 2.5	Pass
					4.45	-9.100	-0.0116	-2.5 to 2.5	Pass
				-30	3.87	0.500	0.0006	-2.5 to 2.5	Pass
				-20	3.87	-0.200	-0.0003	-2.5 to 2.5	Pass
				-10	3.87	0.100	0.0001	-2.5 to 2.5	Pass
				0	3.87	1.900	0.0024	-2.5 to 2.5	Pass
				10	3.87	15.100	0.0193	-2.5 to 2.5	Pass
				30	3.87	3.100	0.0040	-2.5 to 2.5	Pass
				40	3.87	0.400	0.0005	-2.5 to 2.5	Pass
				50	3.87	-0.200	-0.0003	-2.5 to 2.5	Pass
16QAM	782	50	0	20	3.65	1.800	0.0023	-2.5 to 2.5	Pass
					3.87	0.700	0.0009	-2.5 to 2.5	Pass
					4.45	1.200	0.0015	-2.5 to 2.5	Pass
				-30	3.87	1.300	0.0017	-2.5 to 2.5	Pass
				-20	3.87	1.000	0.0013	-2.5 to 2.5	Pass
				-10	3.87	0.700	0.0009	-2.5 to 2.5	Pass
				0	3.87	2.000	0.0026	-2.5 to 2.5	Pass
				10	3.87	-0.100	-0.0001	-2.5 to 2.5	Pass
				30	3.87	-6.600	-0.0084	-2.5 to 2.5	Pass
				40	3.87	1.500	0.0019	-2.5 to 2.5	Pass
				50	3.87	2.600	0.0033	-2.5 to 2.5	Pass
64QAM	782	50	0	20	3.65	-10.100	-0.0129	-2.5 to 2.5	Pass
					3.87	-7.900	-0.0101	-2.5 to 2.5	Pass
					4.45	8.600	0.0110	-2.5 to 2.5	Pass
				-30	3.87	-10.900	-0.0139	-2.5 to 2.5	Pass
				-20	3.87	20.600	0.0263	-2.5 to 2.5	Pass
				-10	3.87	-24.900	-0.0318	-2.5 to 2.5	Pass
				0	3.87	22.200	0.0284	-2.5 to 2.5	Pass
				10	3.87	2.300	0.0029	-2.5 to 2.5	Pass
				30	3.87	30.900	0.0395	-2.5 to 2.5	Pass
				40	3.87	5.400	0.0069	-2.5 to 2.5	Pass
				50	3.87	-14.200	-0.0182	-2.5 to 2.5	Pass
256QAM	782	50	0	20	3.65	2.100	0.0027	-2.5 to 2.5	Pass
					3.87	-0.900	-0.0012	-2.5 to 2.5	Pass
					4.45	1.800	0.0023	-2.5 to 2.5	Pass
				-30	3.87	2.300	0.0029	-2.5 to 2.5	Pass
				-20	3.87	1.600	0.0020	-2.5 to 2.5	Pass
				-10	3.87	1.200	0.0015	-2.5 to 2.5	Pass
				0	3.87	2.000	0.0026	-2.5 to 2.5	Pass
				10	3.87	2.200	0.0028	-2.5 to 2.5	Pass
				30	3.87	0.300	0.0004	-2.5 to 2.5	Pass
				40	3.87	-8.900	-0.0114	-2.5 to 2.5	Pass
				50	3.87	0.500	0.0006	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band13_OBW

Band: 13 / NTNV					
Bandwidth (MHz)	Modulation	Frequency	RB Allocation	99% Occupied Bandwidth (MHz)	Verdict

		(MHz)	Size	Offset	Result	Limit	
5	QPSK	779.5	25	0	4.564	/	Pass
		782	25	0	4.526	/	Pass
		784.5	25	0	4.564	/	Pass
	16QAM	779.5	25	0	4.569	/	Pass
		782	25	0	4.540	/	Pass
		784.5	25	0	4.558	/	Pass
	64QAM	779.5	25	0	4.561	/	Pass
		782	25	0	4.553	/	Pass
		784.5	25	0	4.549	/	Pass
	256QAM	779.5	25	0	4.562	/	Pass
		782	25	0	4.527	/	Pass
		784.5	25	0	4.556	/	Pass
10	QPSK	782	50	0	9.038	/	Pass
	16QAM	782	50	0	9.035	/	Pass
	64QAM	782	50	0	9.032	/	Pass
	256QAM	782	50	0	9.038	/	Pass

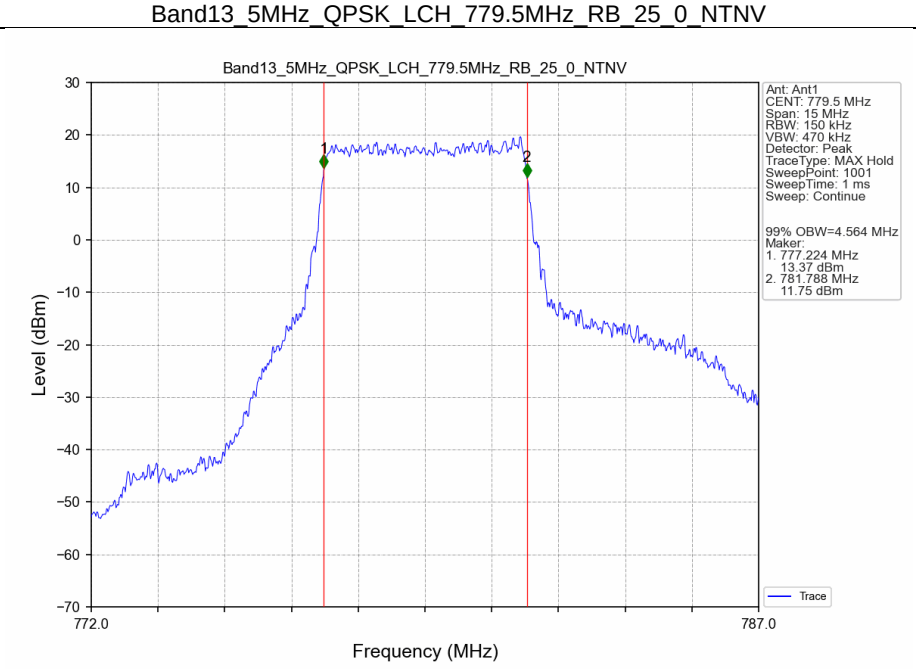
3.1.2 Band13_XDB

Band: 13 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	779.5	25	0	5.268	/	Pass
		782	25	0	5.160	/	Pass
		784.5	25	0	5.239	/	Pass
	16QAM	779.5	25	0	5.255	/	Pass
		782	25	0	5.105	/	Pass
		784.5	25	0	5.146	/	Pass
	64QAM	779.5	25	0	5.200	/	Pass
		782	25	0	5.222	/	Pass
		784.5	25	0	5.273	/	Pass
	256QAM	779.5	25	0	5.237	/	Pass
		782	25	0	5.176	/	Pass
		784.5	25	0	5.183	/	Pass
10	QPSK	782	50	0	10.192	/	Pass
	16QAM	782	50	0	10.068	/	Pass
	64QAM	782	50	0	10.048	/	Pass
	256QAM	782	50	0	10.027	/	Pass

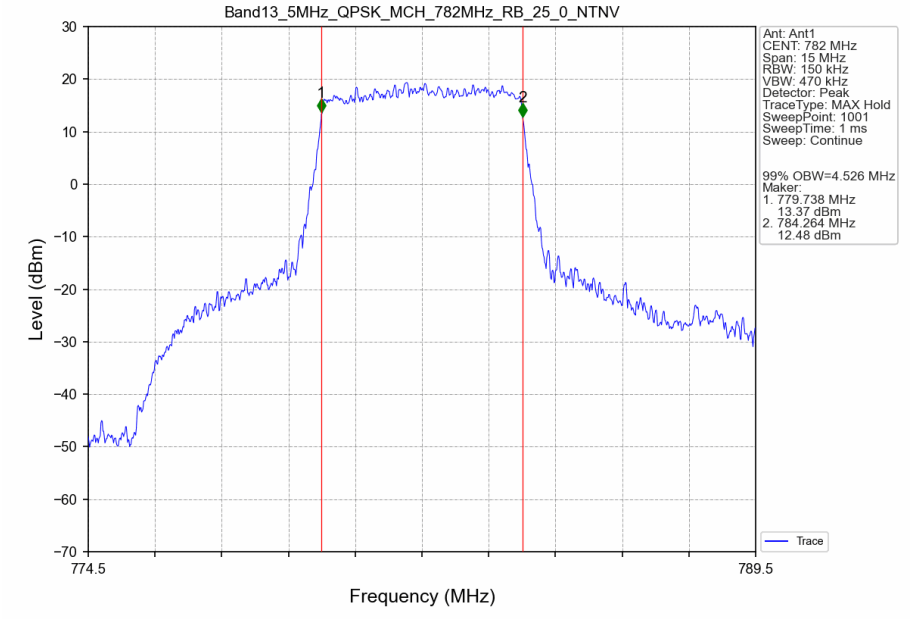
3.2 Test Graph

3.2.1 Band13_OBW

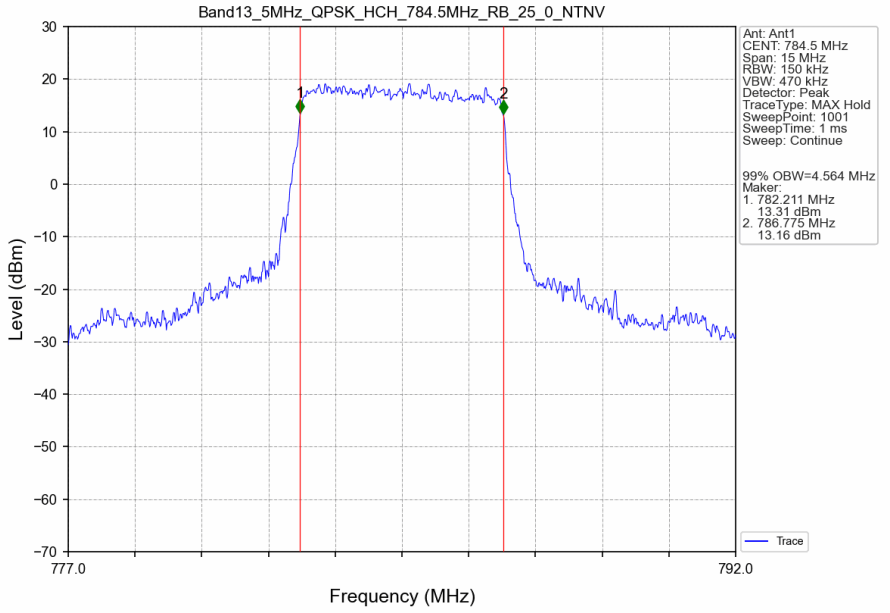
Band13_5MHz_QPSK_LCH_779.5MHz_RB_25_0_NTNV



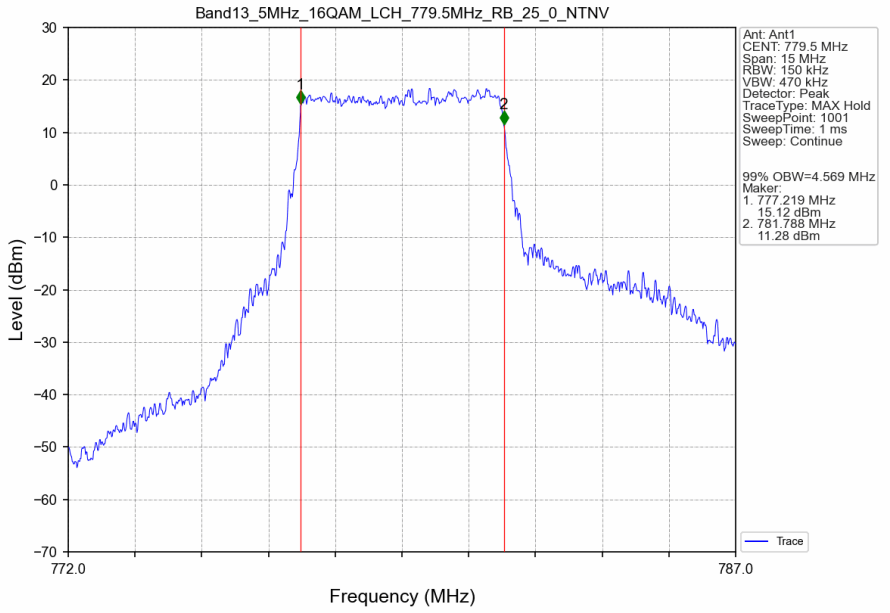
Band13_5MHz_QPSK_MCH_782MHz_RB_25_0_NTNV



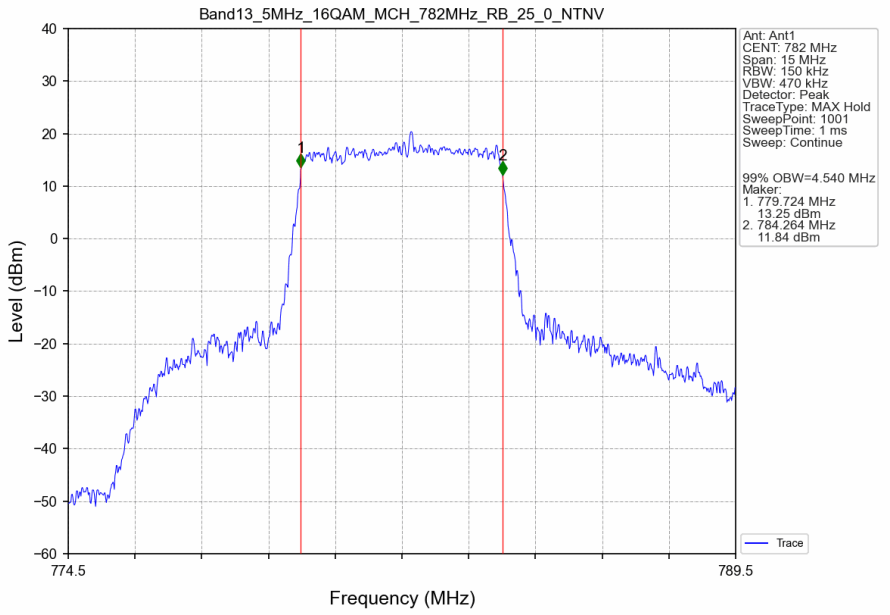
Band13_5MHz_QPSK_HCH_784.5MHz_RB_25_0_NTNV



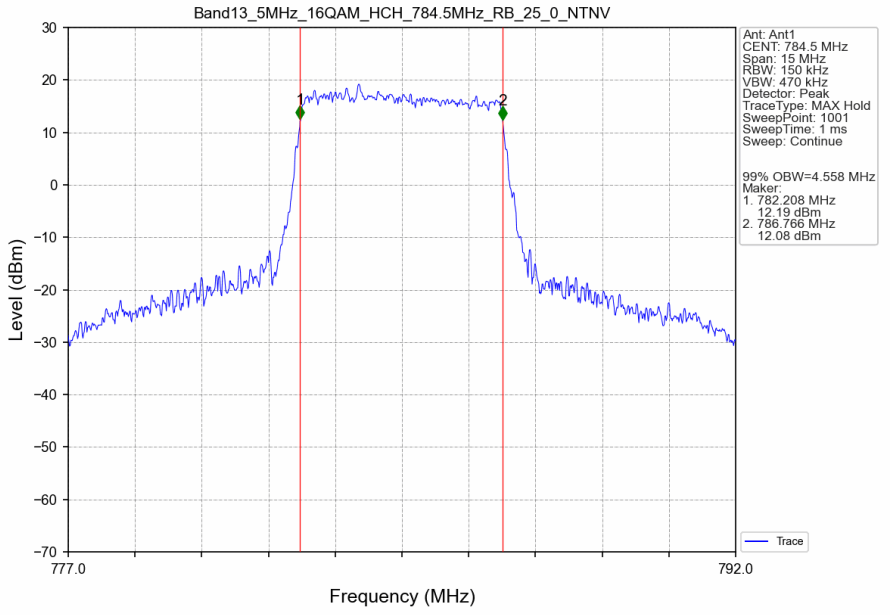
Band13_5MHz_16QAM_LCH_779.5MHz_RB_25_0_NTNV



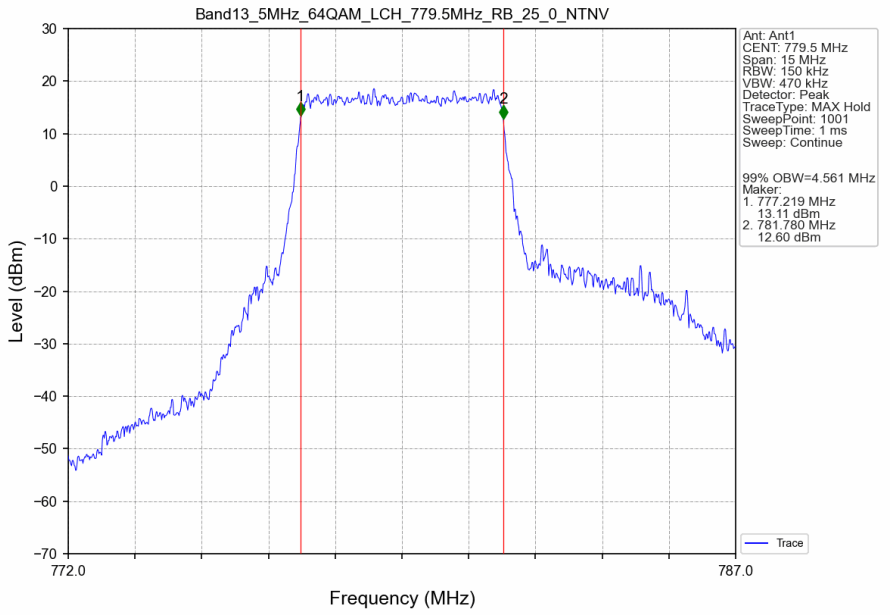
Band13_5MHz_16QAM_MCH_782MHz_RB_25_0_NTNV



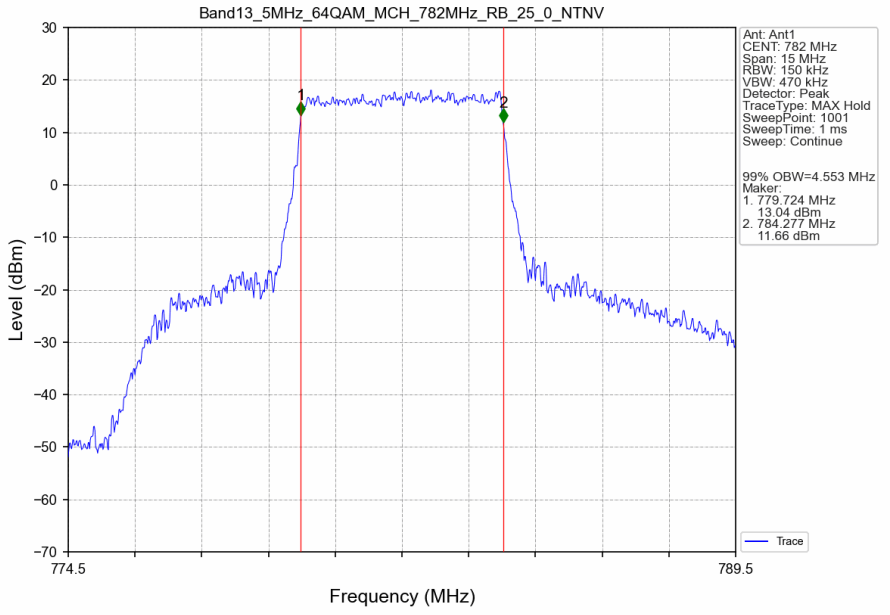
Band13_5MHz_16QAM_HCH_784.5MHz_RB_25_0_NTNV



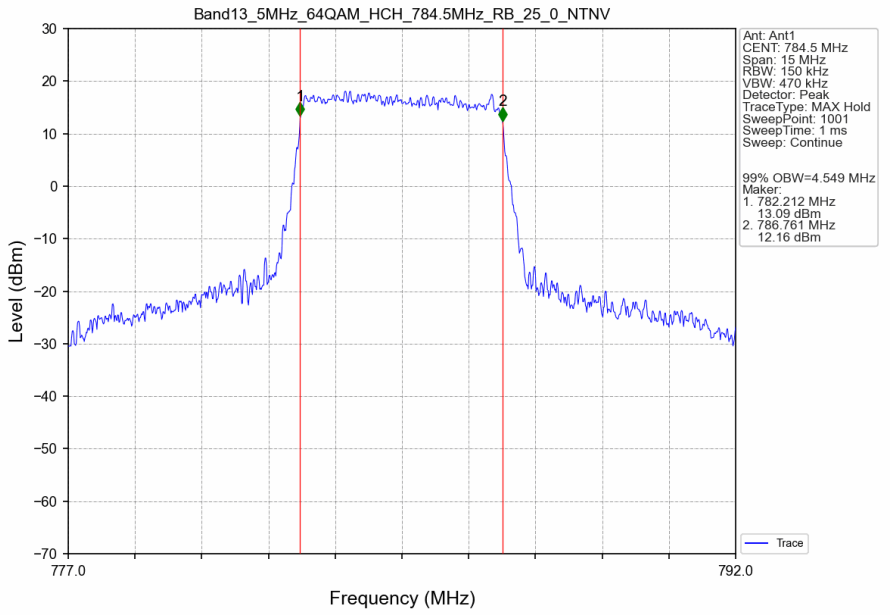
Band13_5MHz_64QAM_LCH_779.5MHz_RB_25_0_NTNV



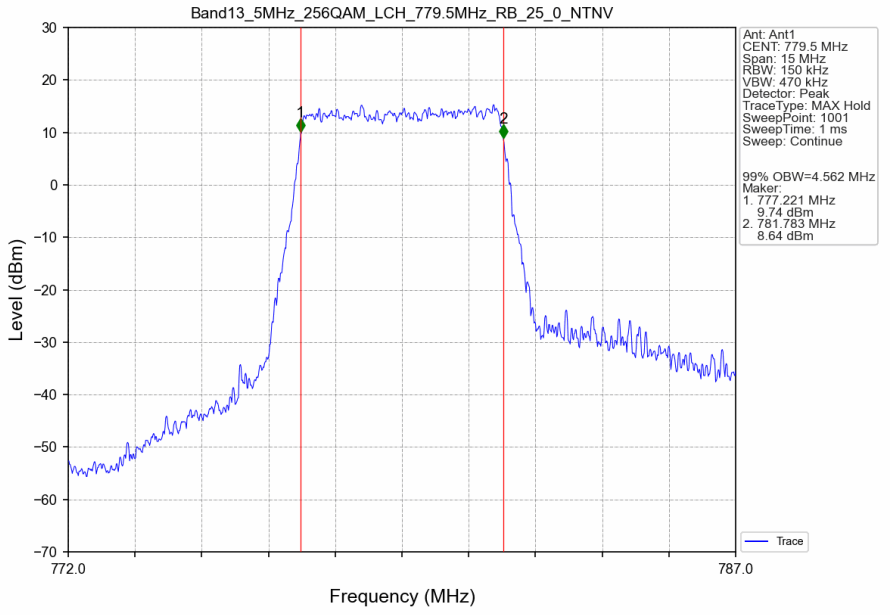
Band13_5MHz_64QAM_MCH_782MHz_RB_25_0_NTNV

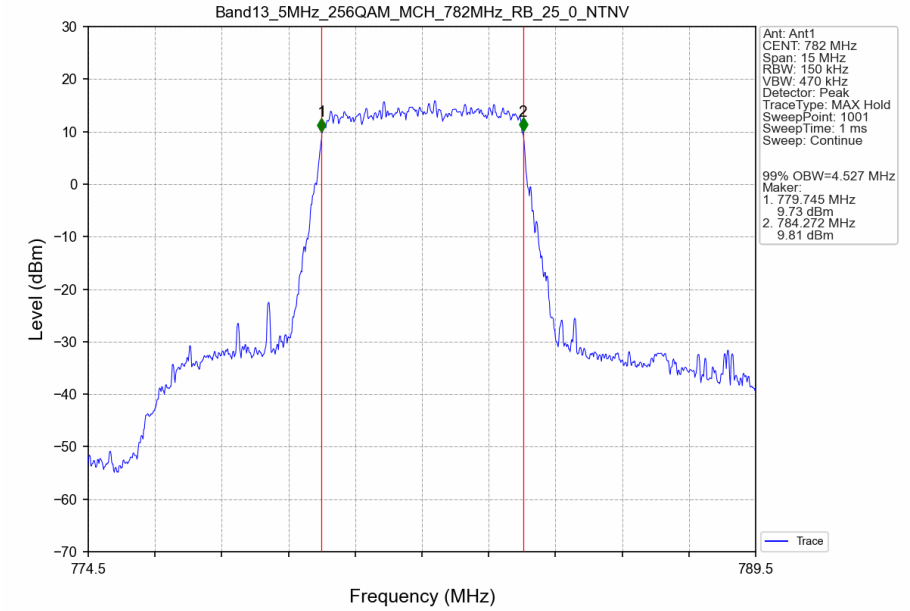


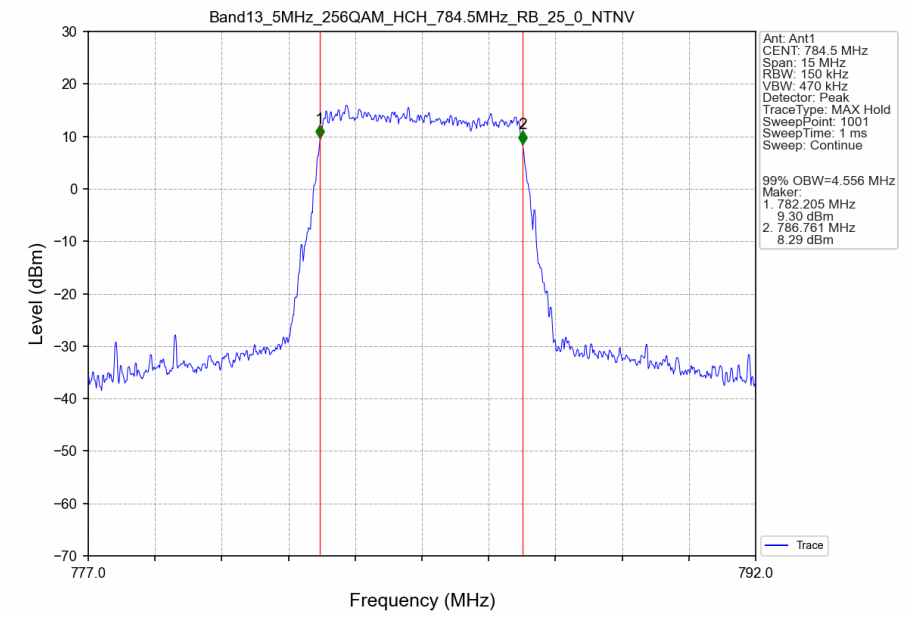
Band13_5MHz_64QAM_HCH_784.5MHz_RB_25_0_NTNV



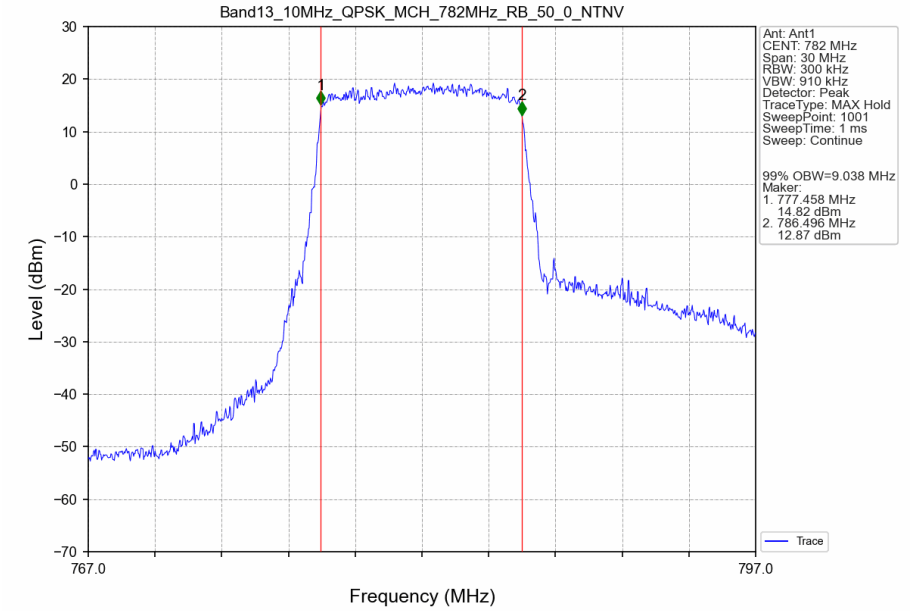
Band13_5MHz_256QAM_LCH_779.5MHz_RB_25_0_NTNV



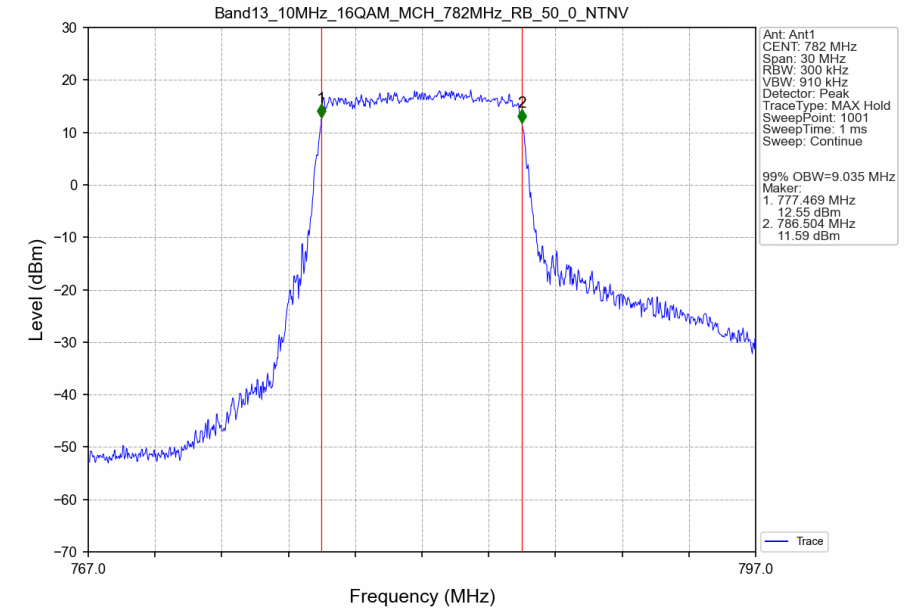
Band13_5MHz_256QAM_MCH_782MHz_RB_25_0_NTNV


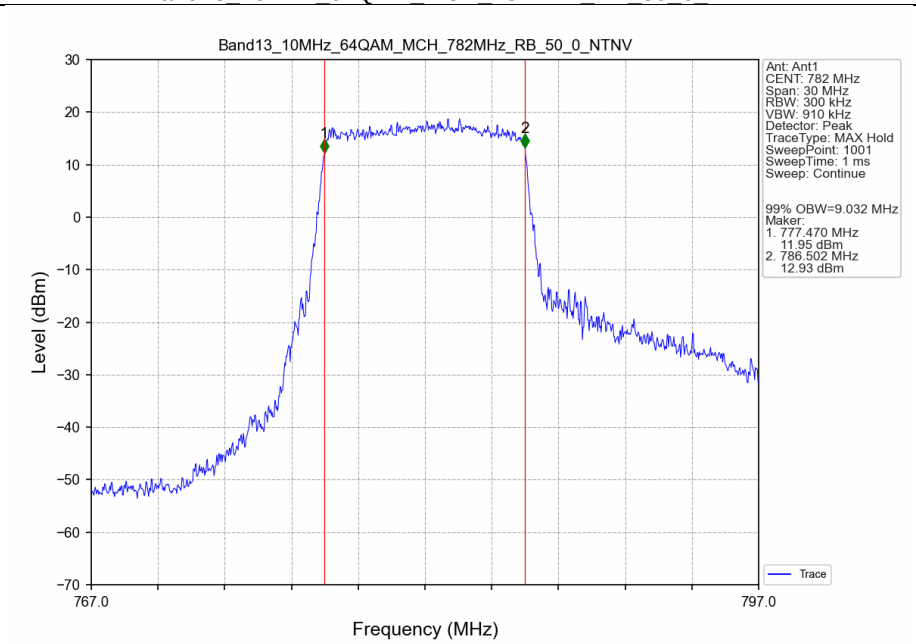
Band13_5MHz_256QAM_HCH_784.5MHz_RB_25_0_NTNV


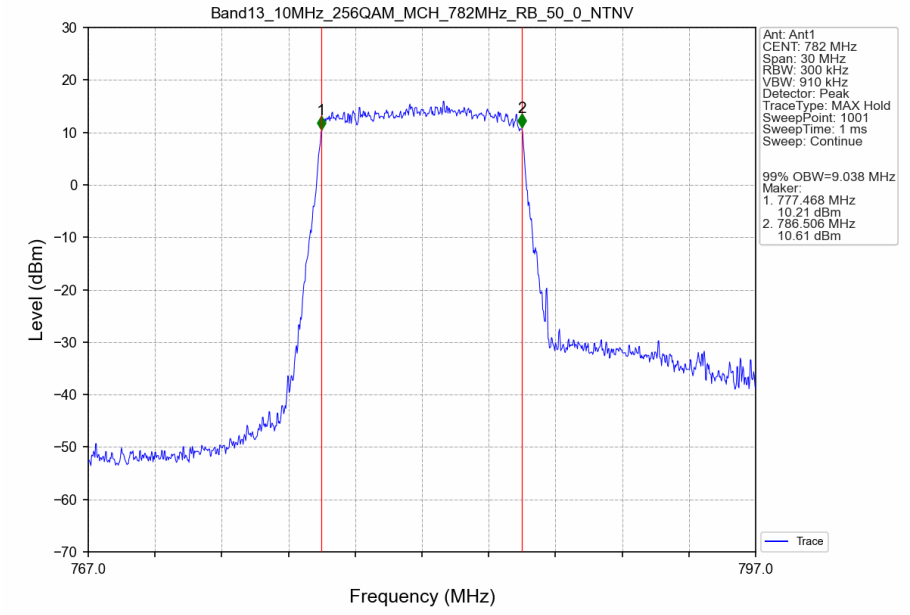
Band13_10MHz_QPSK_MCH_782MHz_RB_50_0_NTNV



Band13_10MHz_16QAM_MCH_782MHz_RB_50_0_NTNV

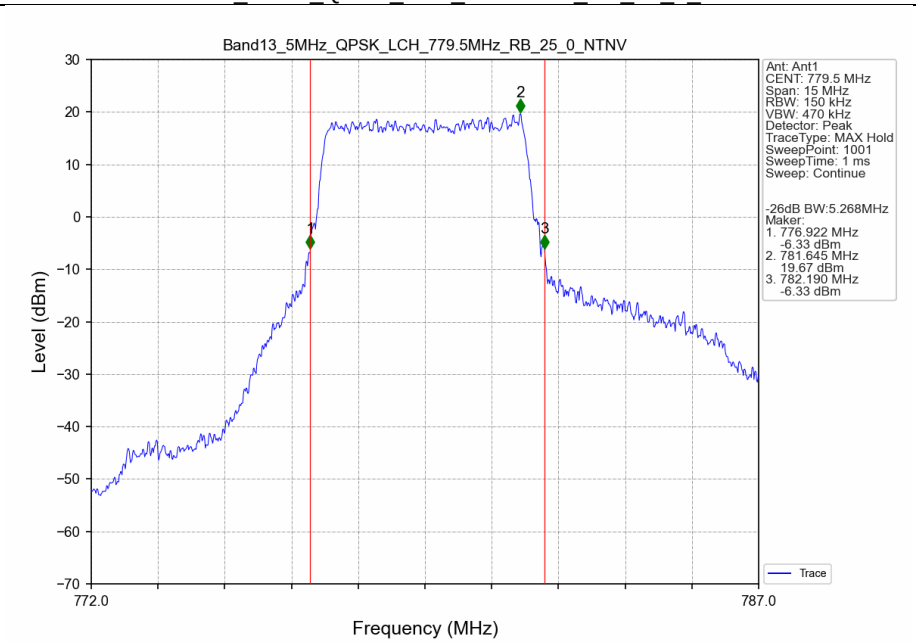


Band13_10MHz_64QAM_MCH_782MHz_RB_50_0_NTNV


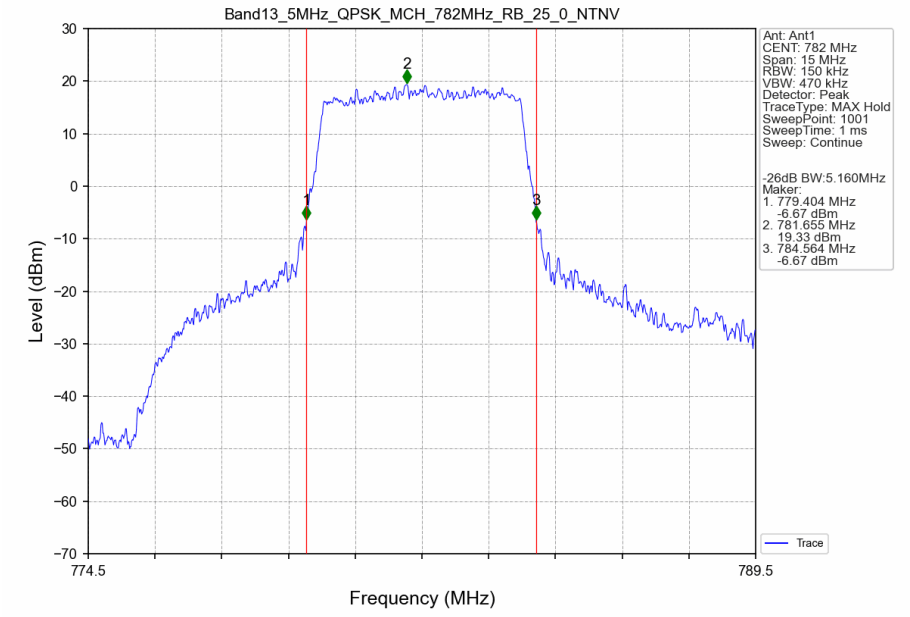
Band13_10MHz_256QAM_MCH_782MHz_RB_50_0_NTNV


3.2.2 Band13_XDB

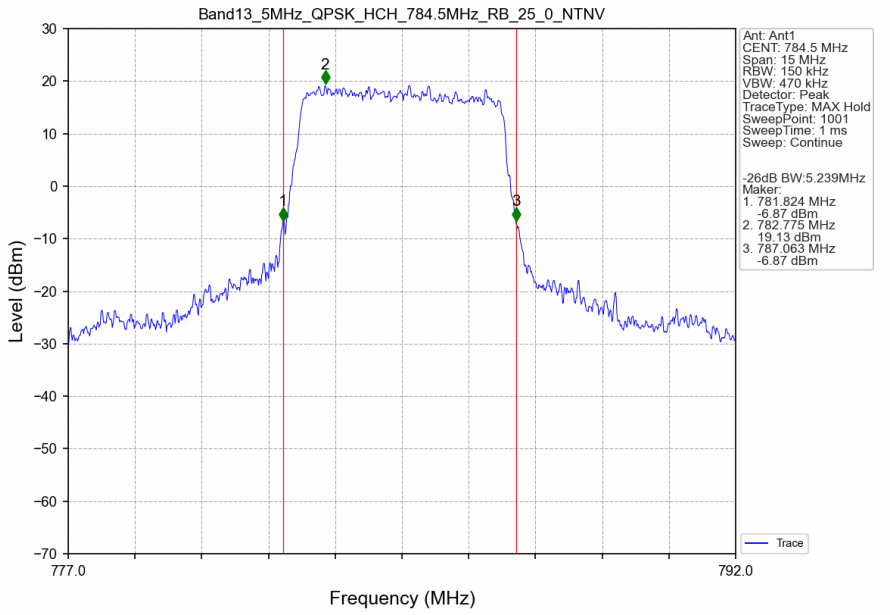
Band13_5MHz_QPSK_LCH_779.5MHz_RB_25_0_NTNV



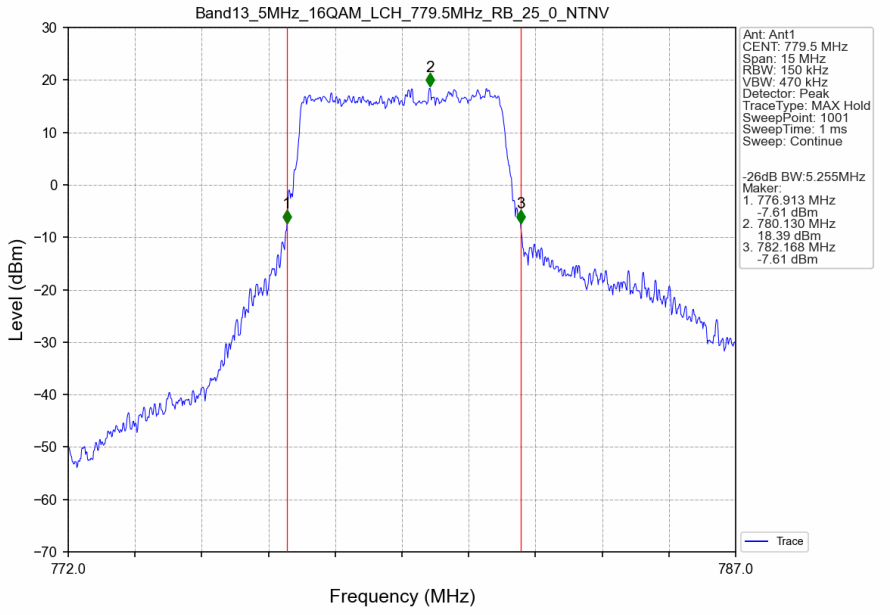
Band13_5MHz_QPSK_MCH_782MHz_RB_25_0_NTNV



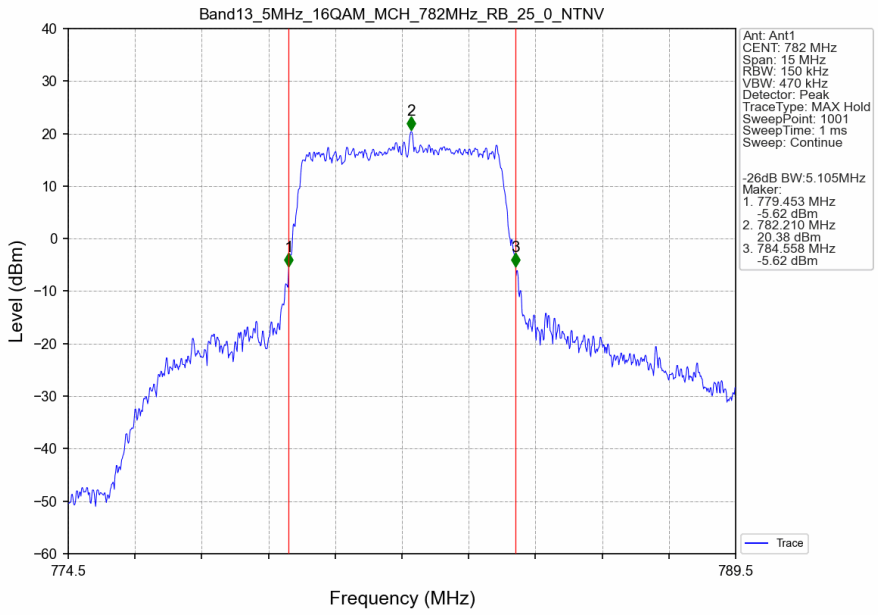
Band13_5MHz_QPSK_HCH_784.5MHz_RB_25_0_NTNV



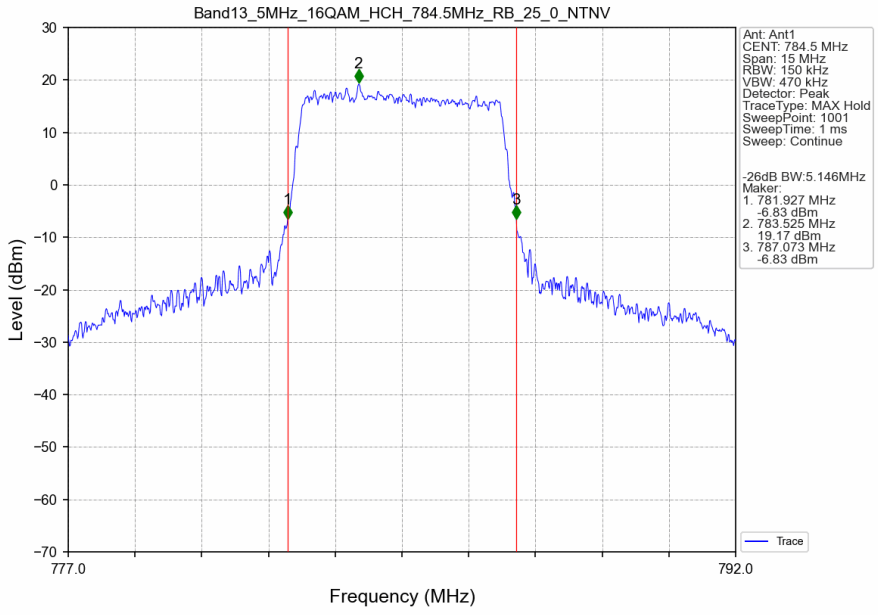
Band13_5MHz_16QAM_LCH_779.5MHz_RB_25_0_NTNV



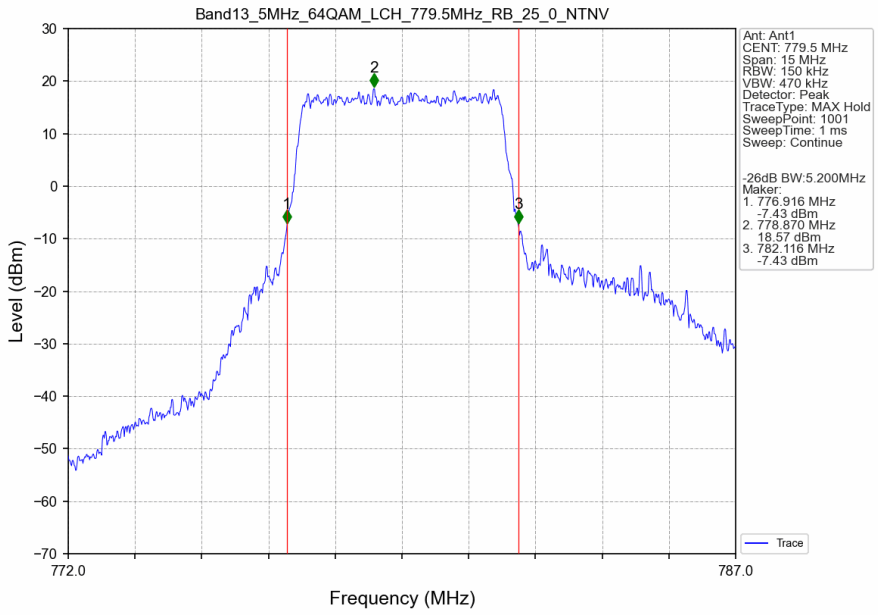
Band13_5MHz_16QAM_MCH_782MHz_RB_25_0_NTNV



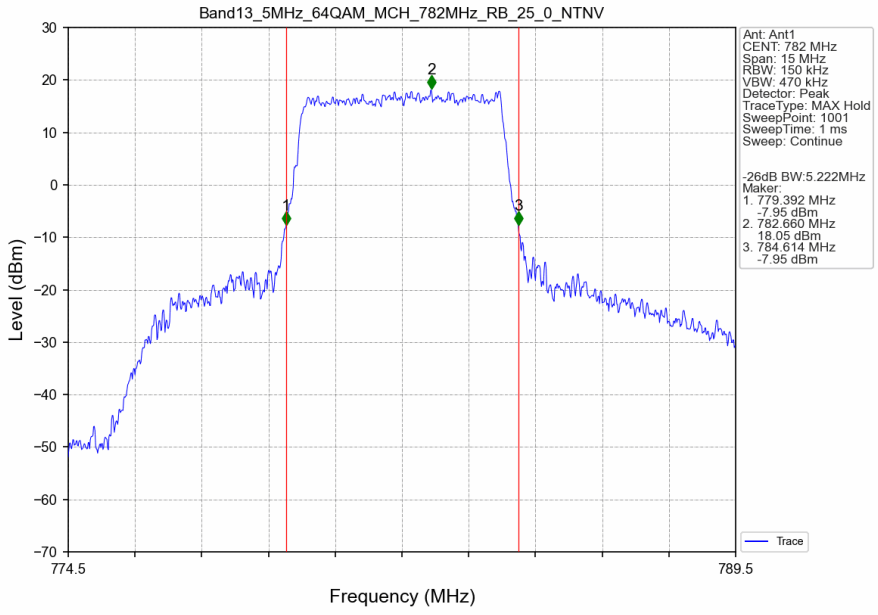
Band13_5MHz_16QAM_HCH_784.5MHz_RB_25_0_NTNV

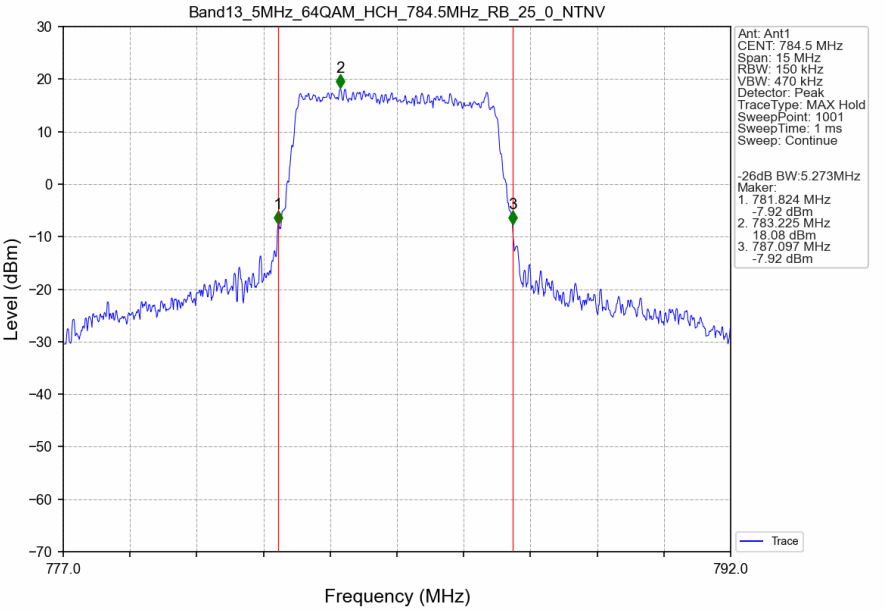


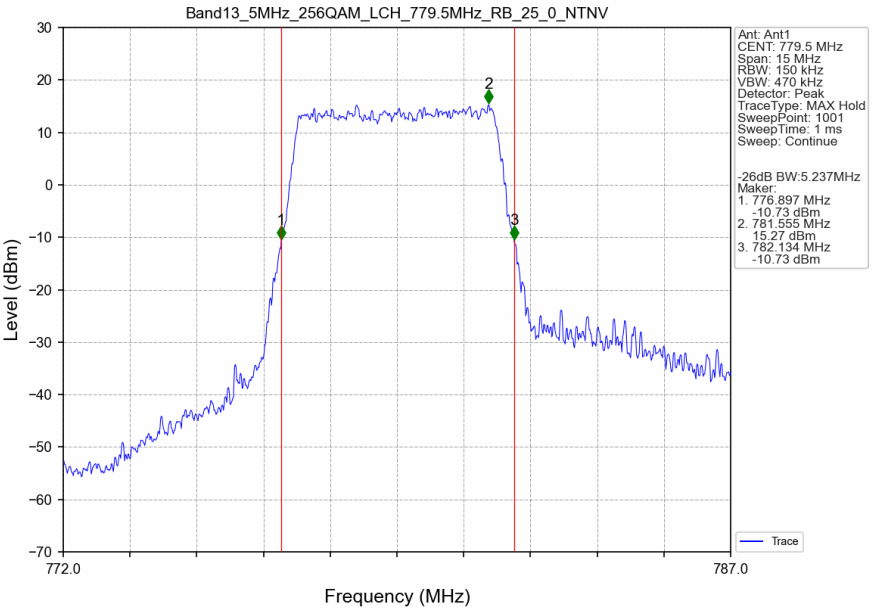
Band13_5MHz_64QAM_LCH_779.5MHz_RB_25_0_NTNV



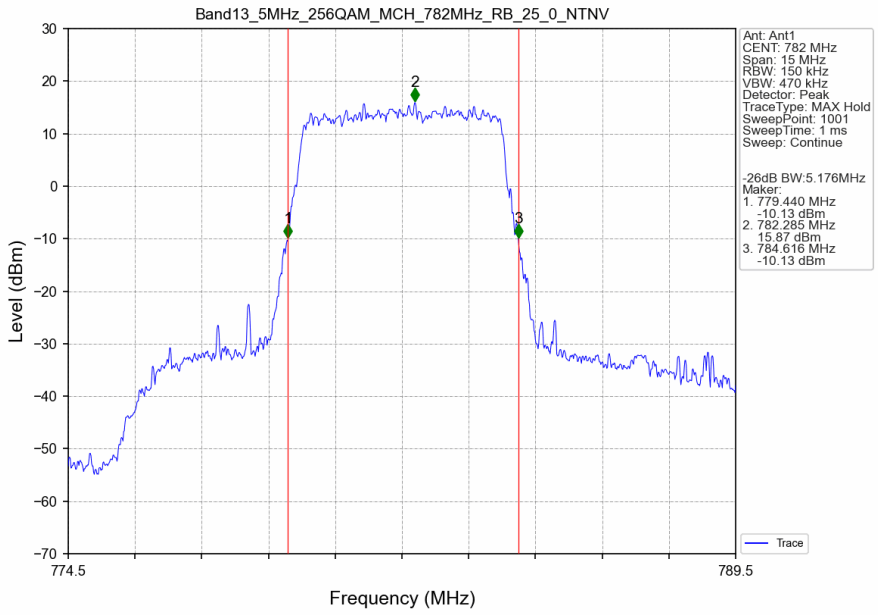
Band13_5MHz_64QAM_MCH_782MHz_RB_25_0_NTNV



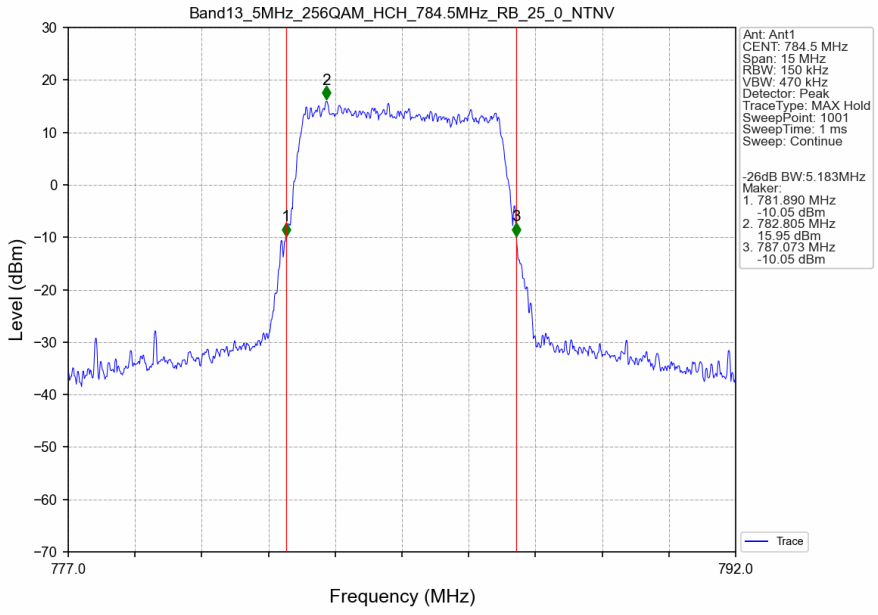
Band13_5MHz_64QAM_HCH_784.5MHz_RB_25_0_NTNV


Band13_5MHz_256QAM_LCH_779.5MHz_RB_25_0_NTNV


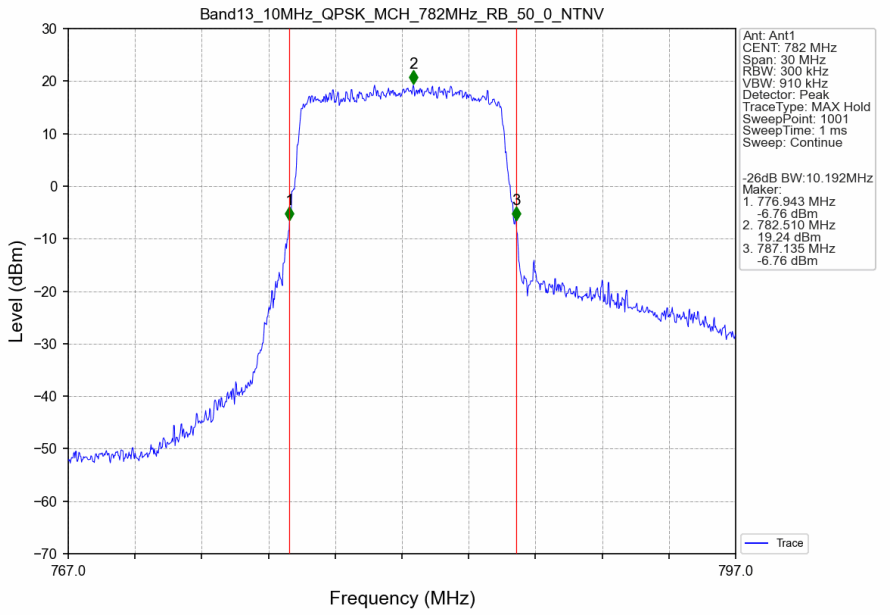
Band13_5MHz_256QAM_MCH_782MHz_RB_25_0_NTNV



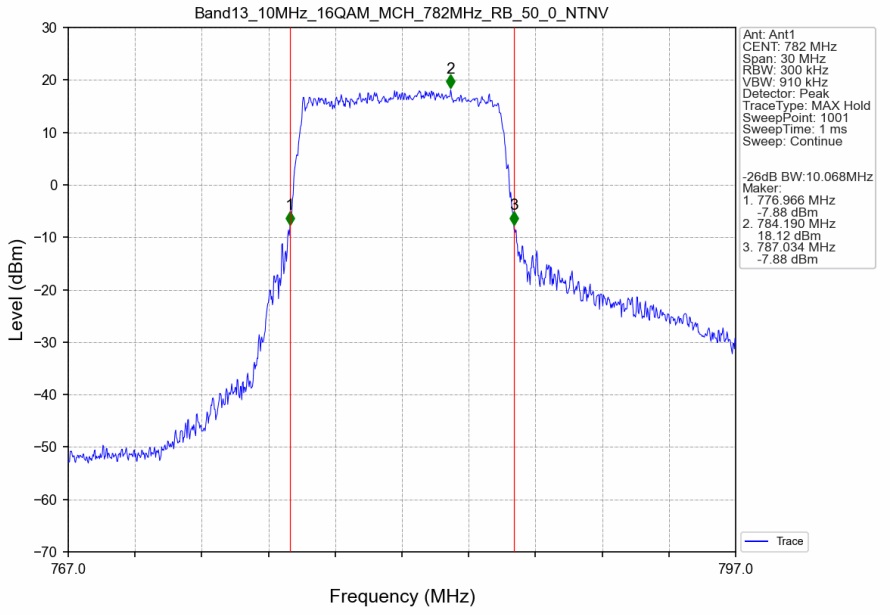
Band13_5MHz_256QAM_HCH_784.5MHz_RB_25_0_NTNV

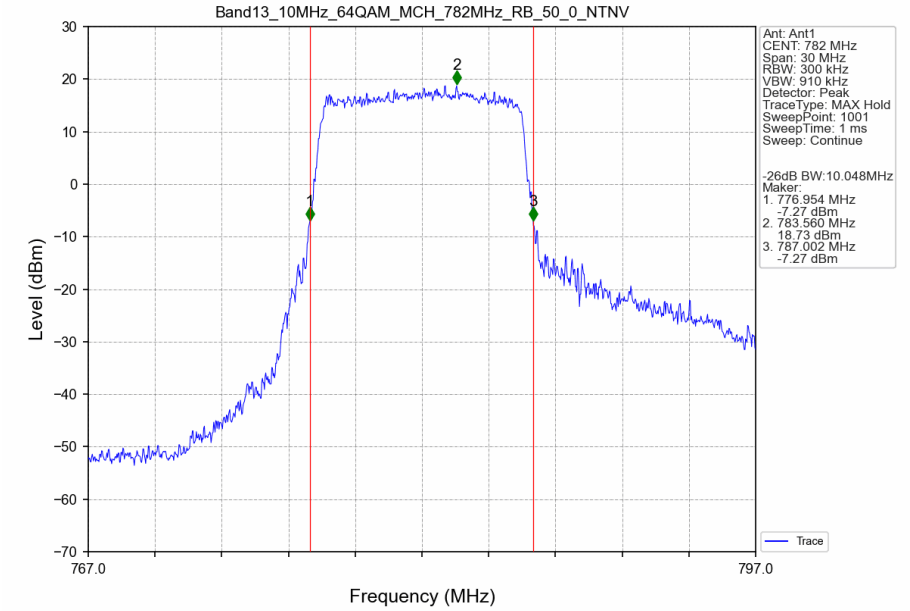


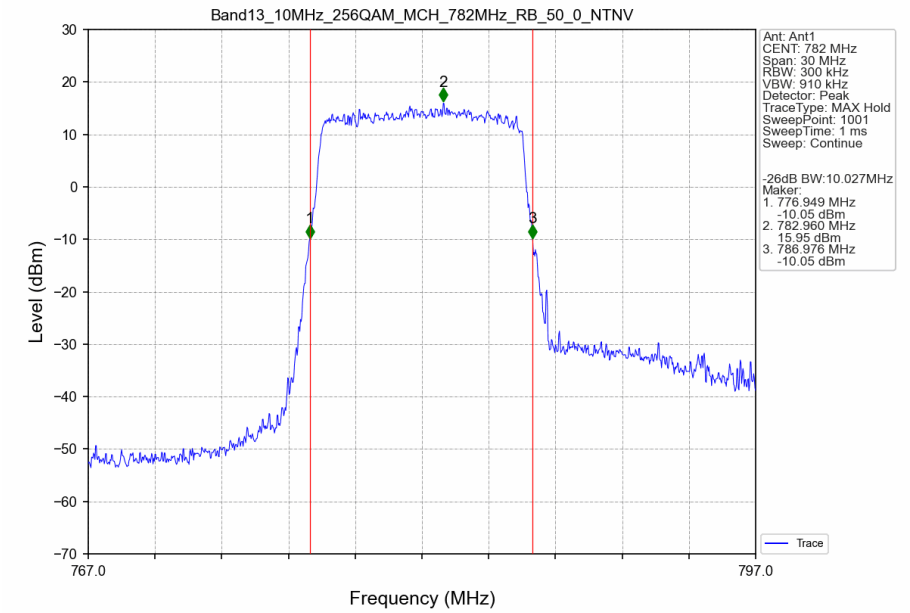
Band13_10MHz_QPSK_MCH_782MHz_RB_50_0_NTNV



Band13_10MHz_16QAM_MCH_782MHz_RB_50_0_NTNV



Band13_10MHz_64QAM_MCH_782MHz_RB_50_0_NTNV


Band13_10MHz_256QAM_MCH_782MHz_RB_50_0_NTNV


4. Peak-Average Ratio

4.1 Test Result

4.1.1 B13_5MHz

Band: 13 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	779.5	25	0	5.19	<=13	Pass
	782	25	0	5.21	<=13	Pass
	784.5	25	0	5.32	<=13	Pass
16QAM	779.5	25	0	6.06	<=13	Pass
	782	25	0	6.05	<=13	Pass
	784.5	25	0	6.20	<=13	Pass
64QAM	779.5	25	0	6.04	<=13	Pass
	782	25	0	6.04	<=13	Pass
	784.5	25	0	6.17	<=13	Pass
256QAM	779.5	25	0	6.80	<=13	Pass
	782	25	0	6.74	<=13	Pass
	784.5	25	0	6.83	<=13	Pass

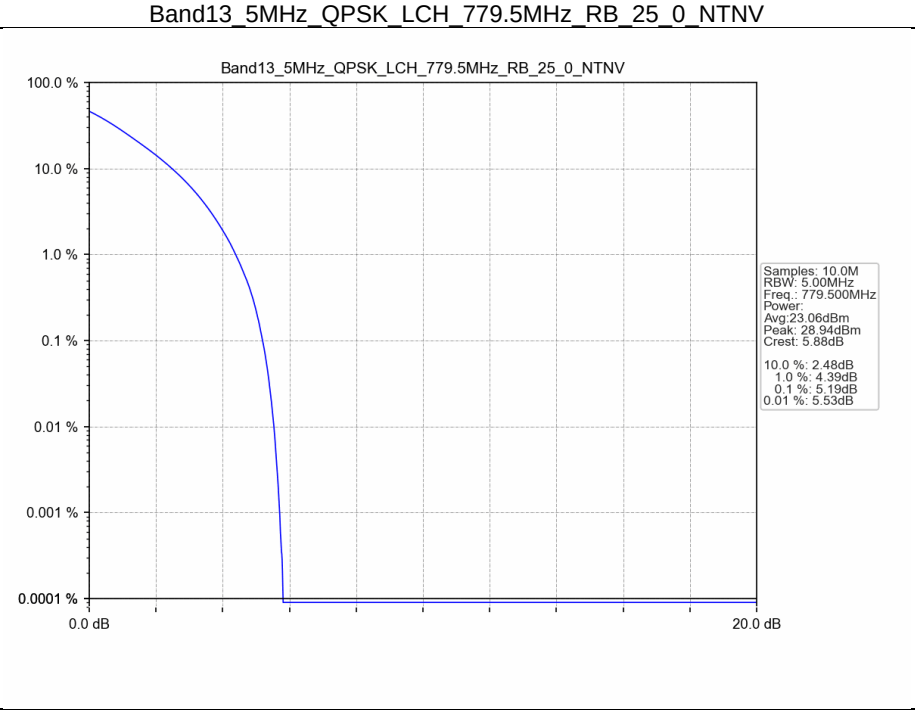
4.1.2 B13_10MHz

Band: 13 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	782	50	0	5.27	<=13	Pass
16QAM	782	50	0	6.10	<=13	Pass
64QAM	782	50	0	6.09	<=13	Pass
256QAM	782	50	0	6.69	<=13	Pass

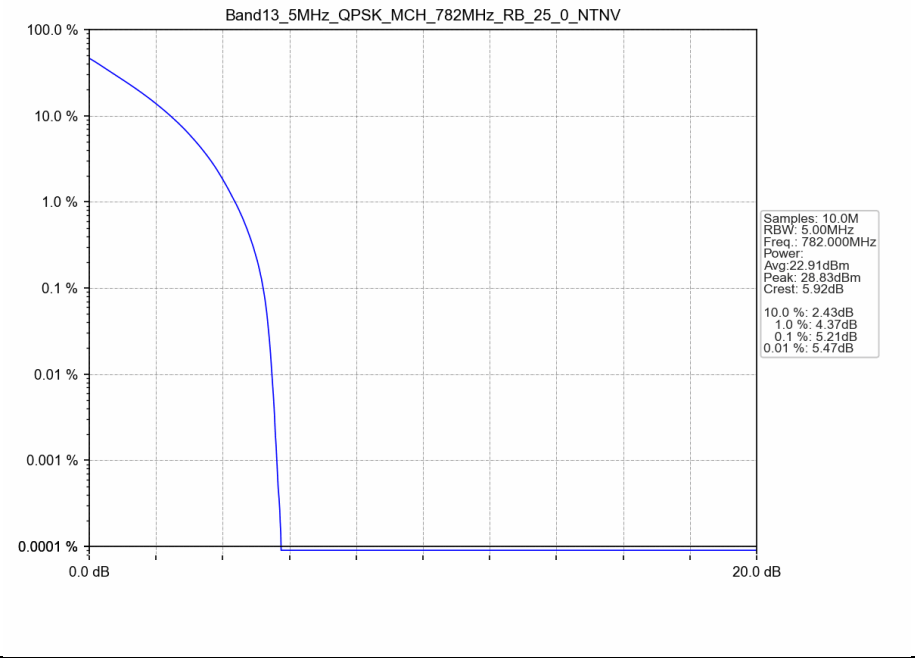
4.2 Test Graph

4.2.1 B13_5MHz

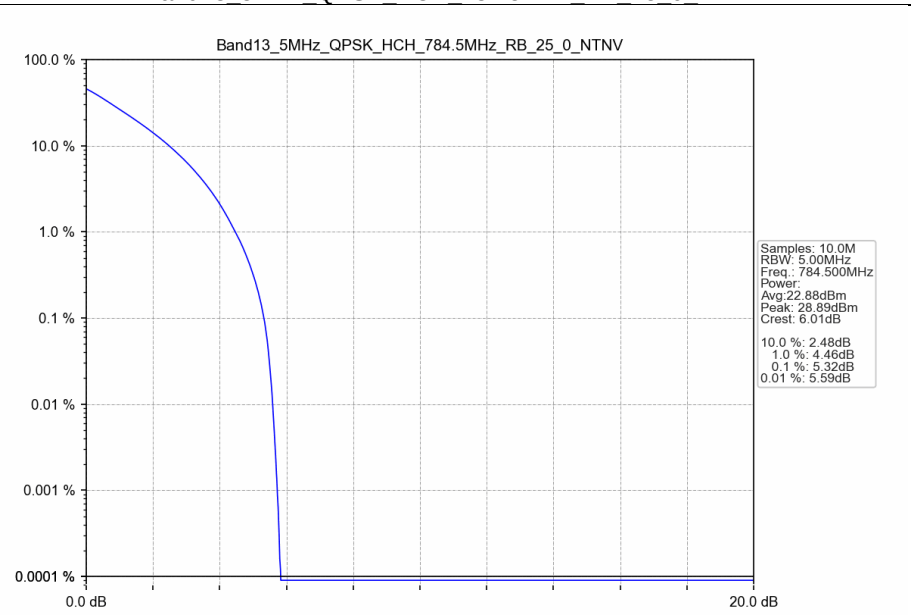
Band13_5MHz_QPSK_LCH_779.5MHz_RB_25_0_NTNV



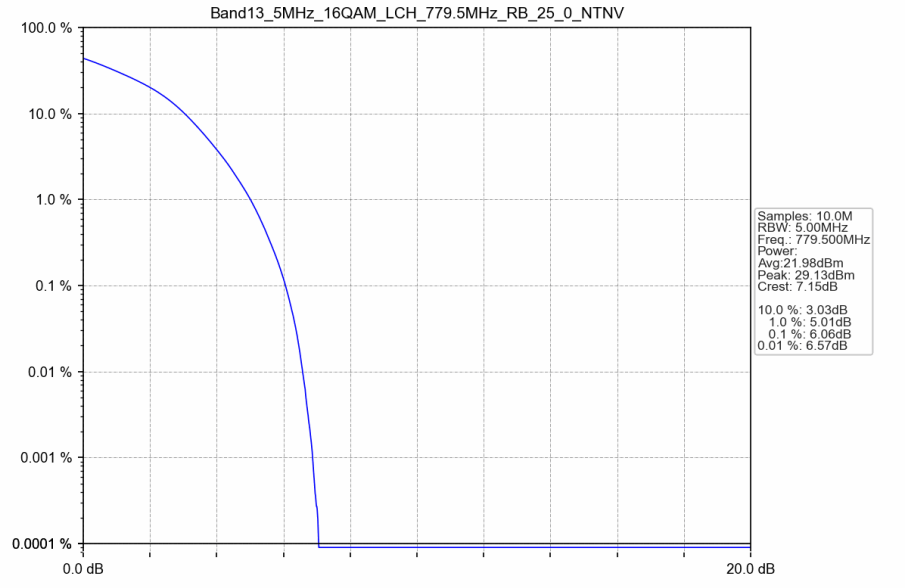
Band13_5MHz_QPSK_MCH_782MHz_RB_25_0_NTNV



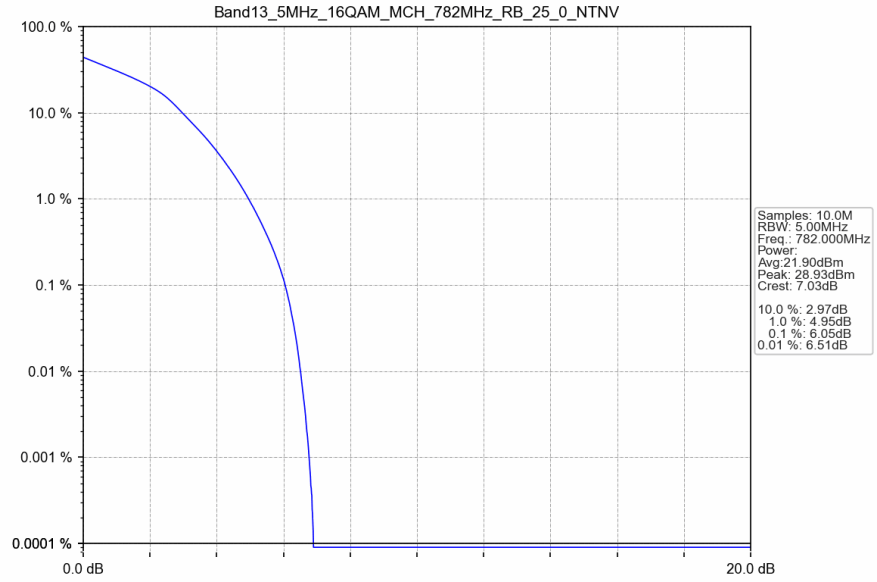
Band13_5MHz_QPSK_HCH_784.5MHz_RB_25_0_NTNV



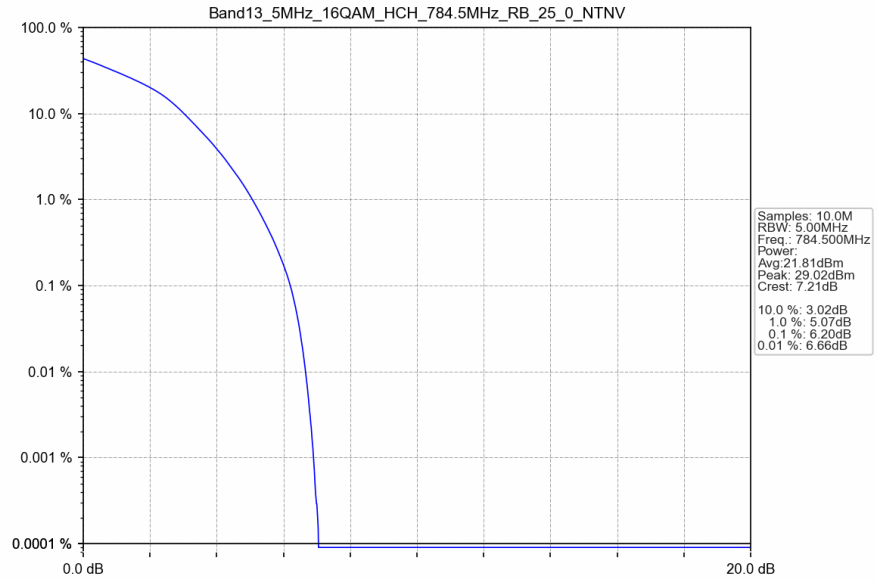
Band13_5MHz_16QAM_LCH_779.5MHz_RB_25_0_NTNV



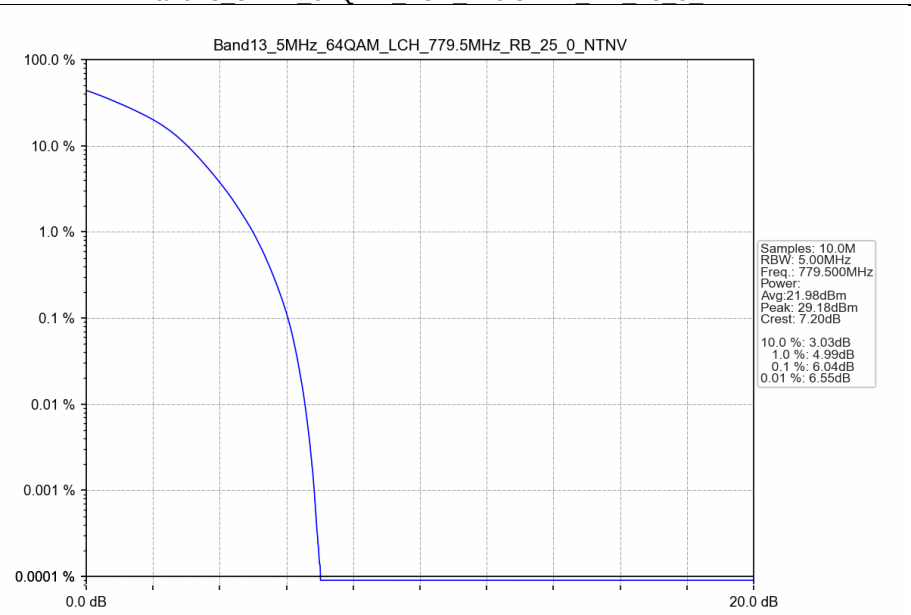
Band13_5MHz_16QAM_MCH_782MHz_RB_25_0_NTNV



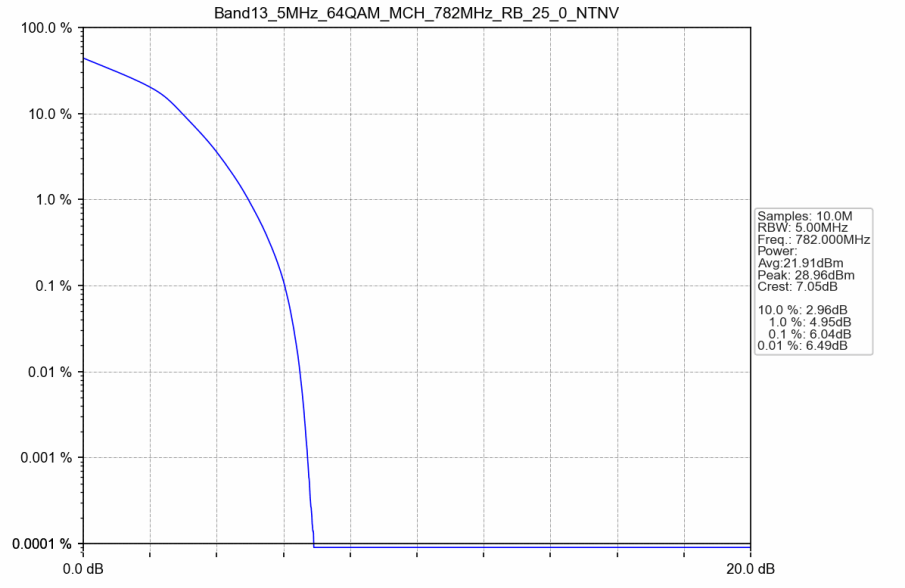
Band13_5MHz_16QAM_HCH_784.5MHz_RB_25_0_NTNV



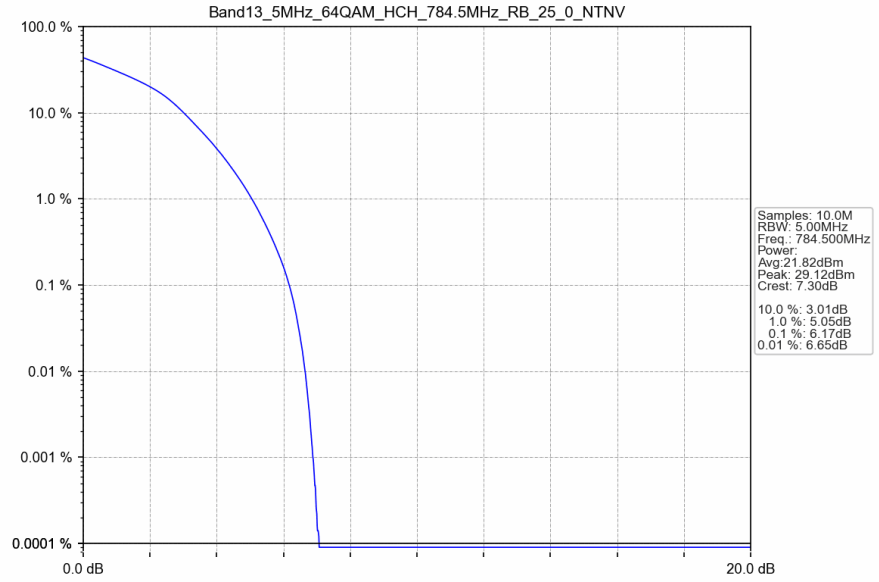
Band13_5MHz_64QAM_LCH_779.5MHz_RB_25_0_NTNV



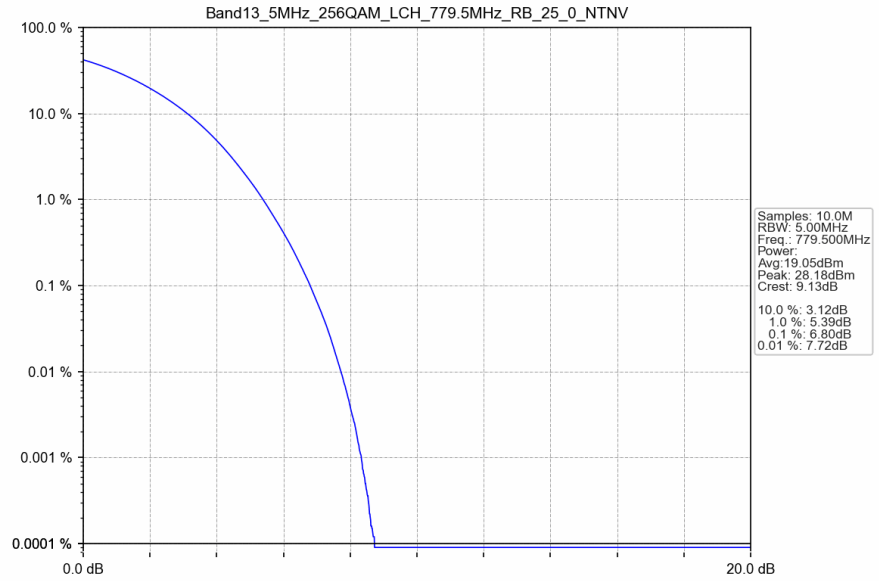
Band13_5MHz_64QAM_MCH_782MHz_RB_25_0_NTNV



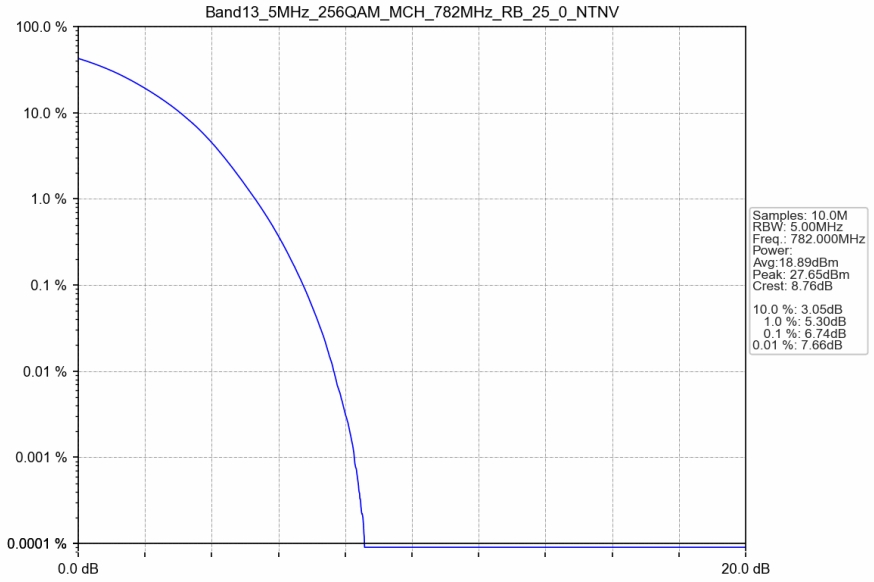
Band13_5MHz_64QAM_HCH_784.5MHz_RB_25_0_NTNV



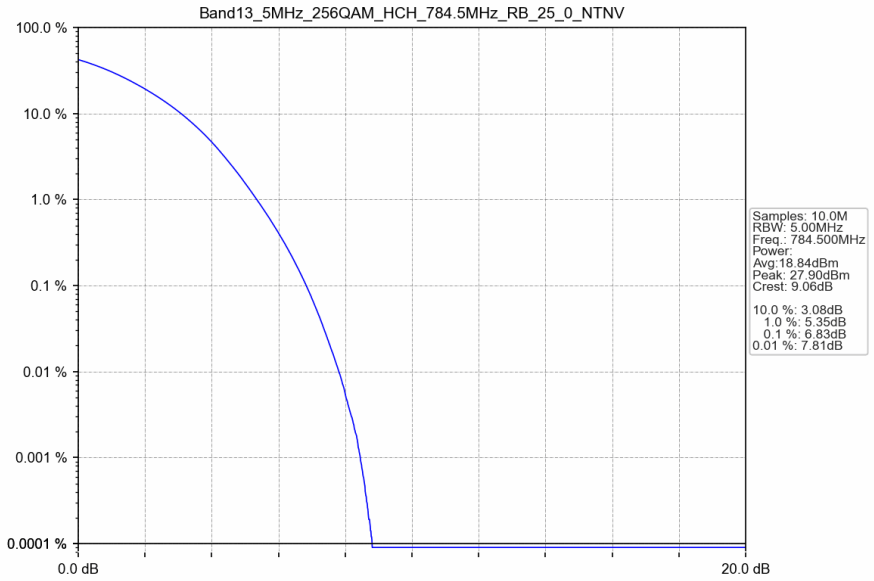
Band13_5MHz_256QAM_LCH_779.5MHz_RB_25_0_NTNV



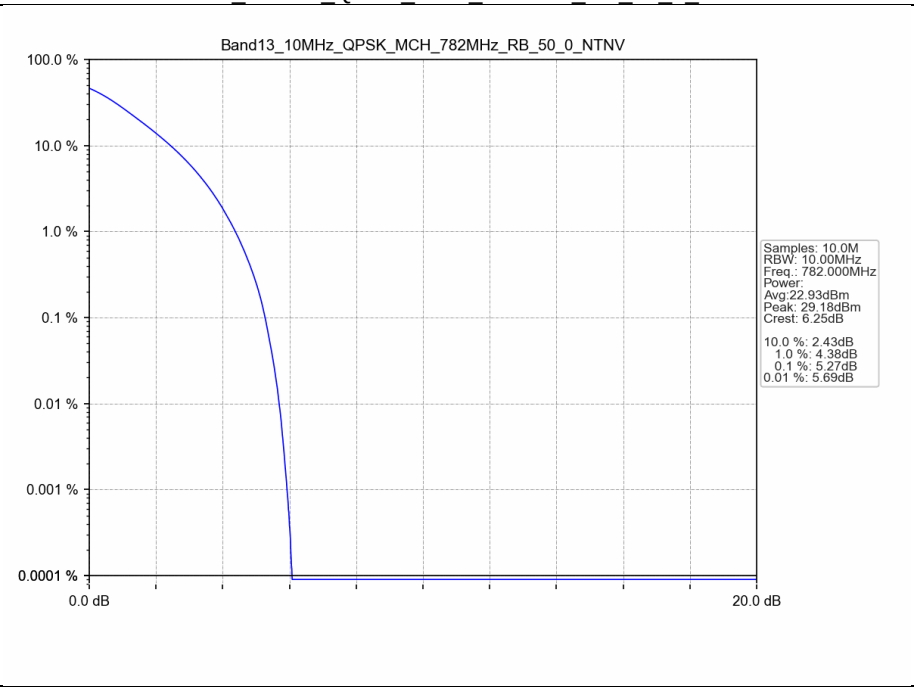
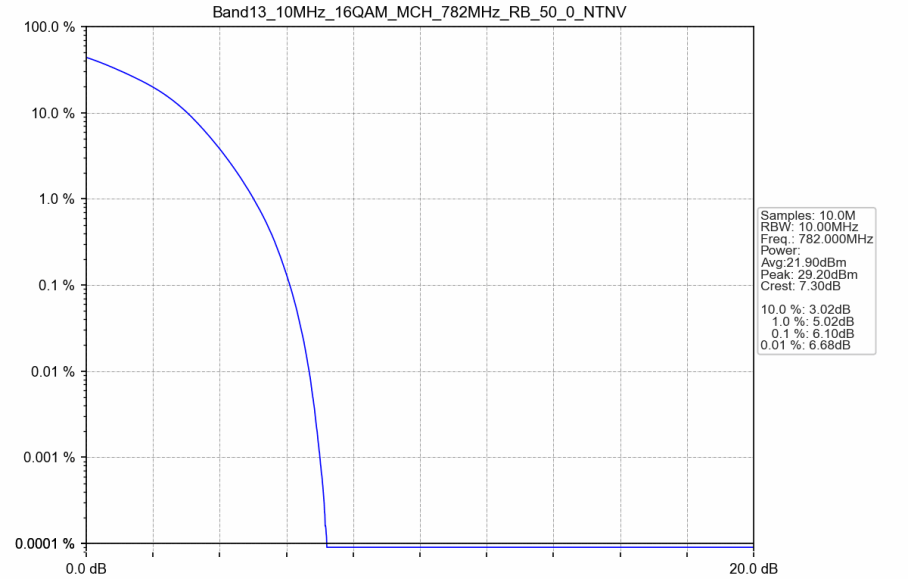
Band13_5MHz_256QAM_MCH_782MHz_RB_25_0_NTNV



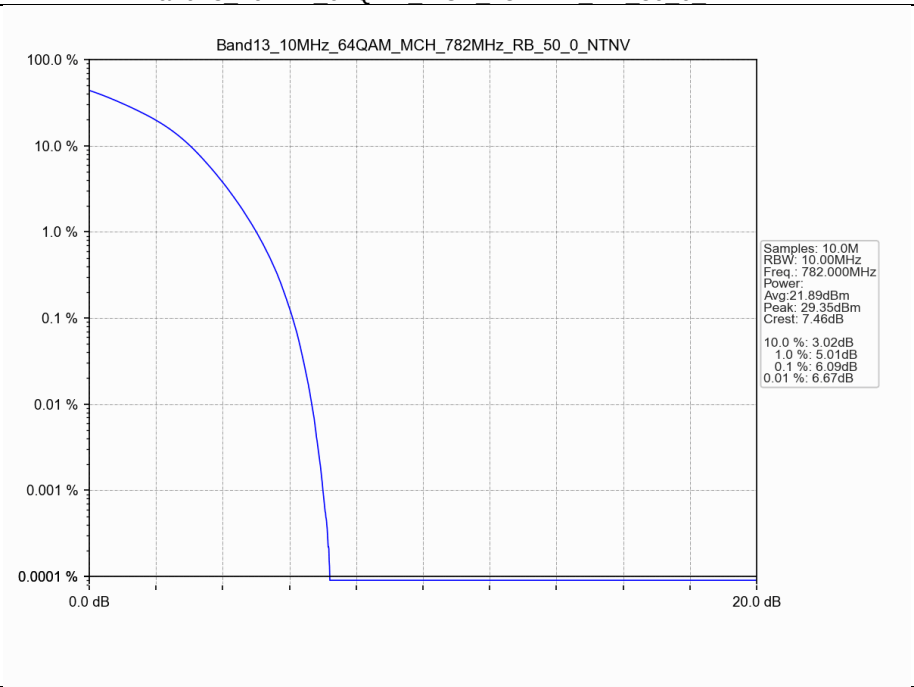
Band13_5MHz_256QAM_HCH_784.5MHz_RB_25_0_NTNV



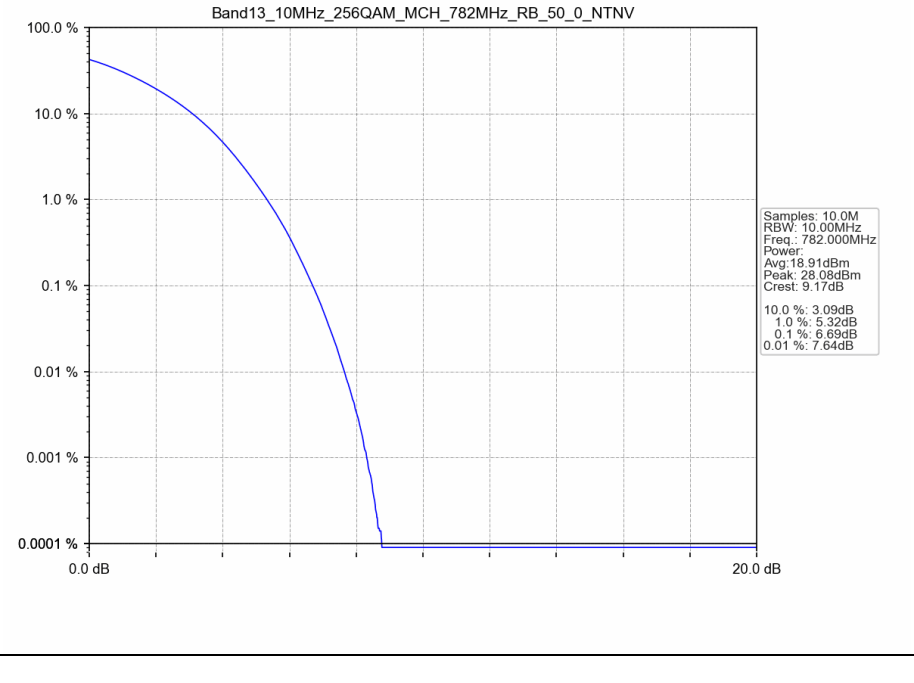
4.2.2 B13_10MHz

Band13_10MHz_QPSK_MCH_782MHz_RB_50_0_NTNV

Band13_10MHz_16QAM_MCH_782MHz_RB_50_0_NTNV


Band13_10MHz_64QAM_MCH_782MHz_RB_50_0_NTNV



Band13_10MHz_256QAM_MCH_782MHz_RB_50_0_NTNV



5. Spurious Emission

5.1 Test Result

5.1.1 B13_5MHz

Band: 13 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	779.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	782	1	0	Refer To Test Graph		Pass
	784.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass

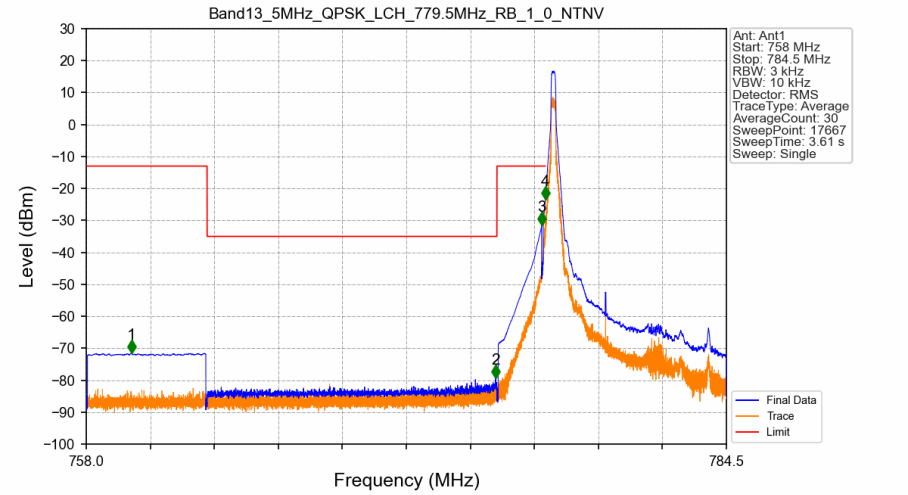
5.1.2 B13_10MHz

Band: 13 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	782	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	782	1	49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass

5.2 Test Graph

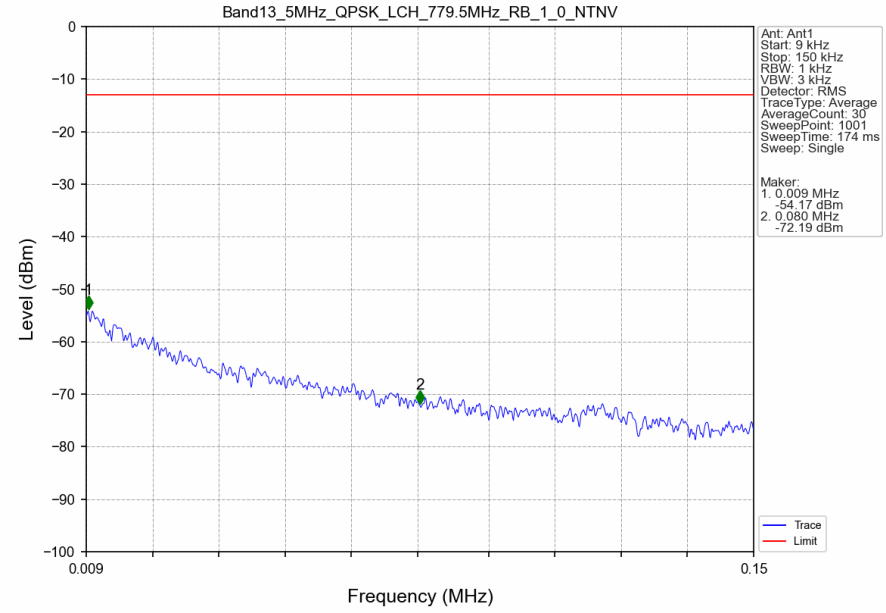
5.2.1 B13_5MHz

Band13_5MHz_QPSK_LCH_779.5MHz_RB_1_0_NTNV

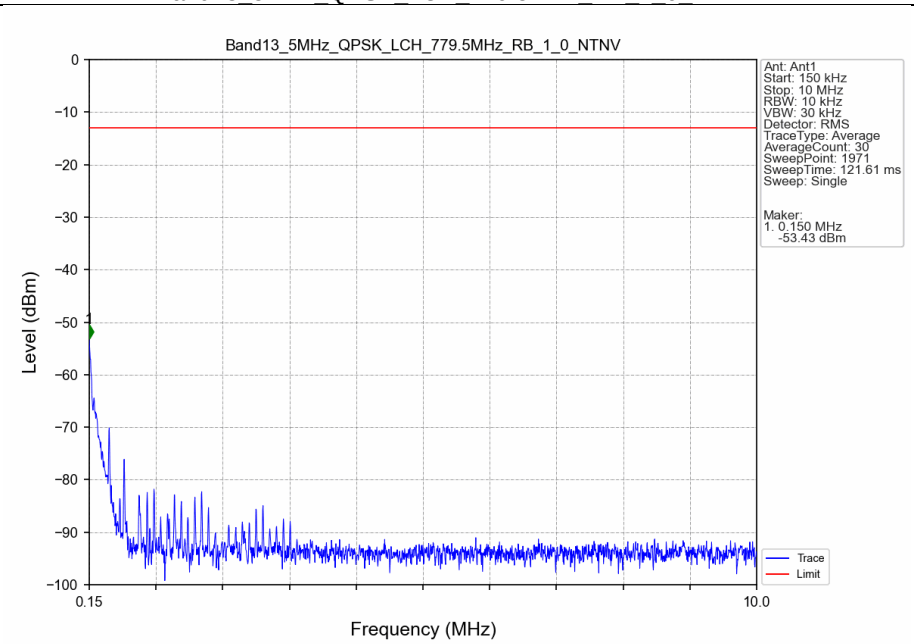


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	759.866	-71.56	-13	Pass
763	775	0.00625	CHP	2	774.951	-79.43	-35	Pass
775	776.9	0.1	CHP	3	776.850	-31.57	-13	Pass
776.9	777	0.03	CHP	4	777.000	-23.56	-13	Pass
777	784.5	0.03	CHP	/	/	/	/	/

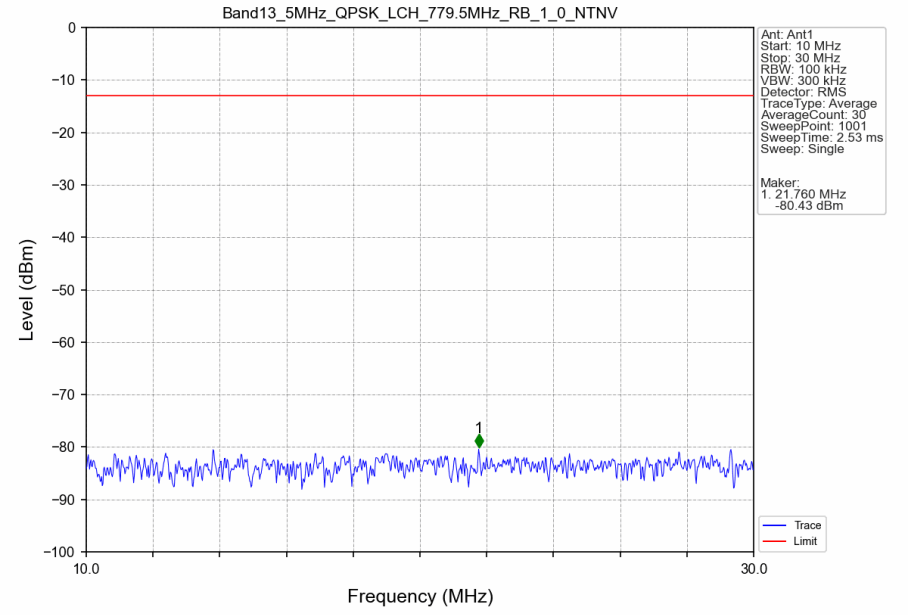
Band13_5MHz_QPSK_LCH_779.5MHz_RB_1_0_NTNV



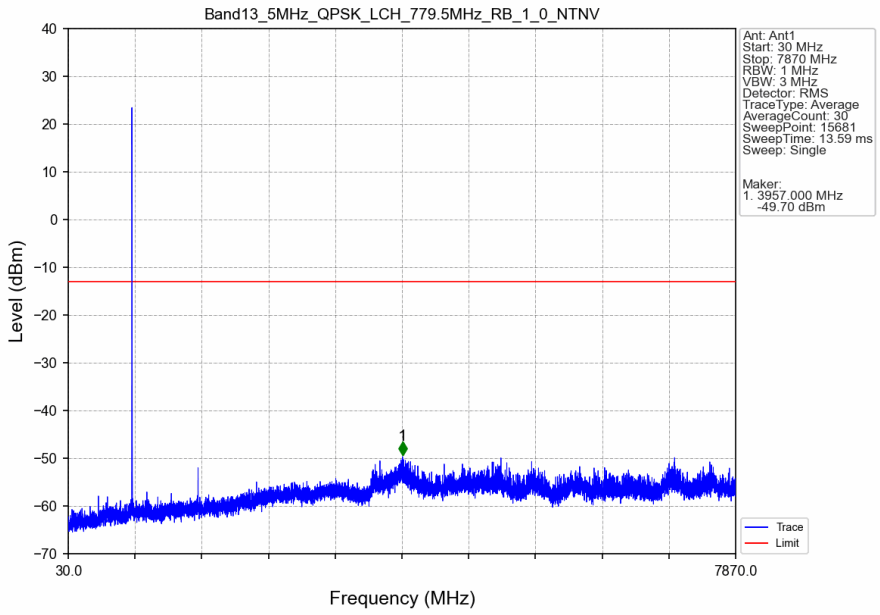
Band13_5MHz_QPSK_LCH_779.5MHz_RB_1_0_NTNV



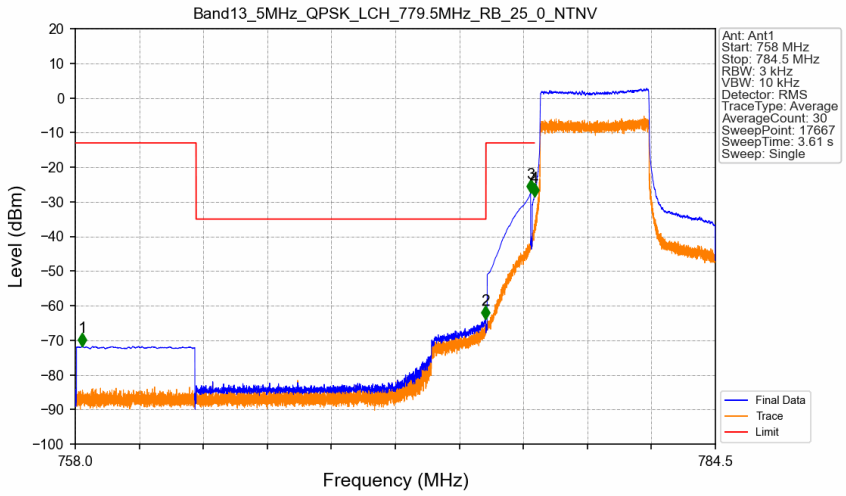
Band13_5MHz_QPSK_LCH_779.5MHz_RB_1_0_NTNV



Band13_5MHz_QPSK_LCH_779.5MHz_RB_1_0_NTNV

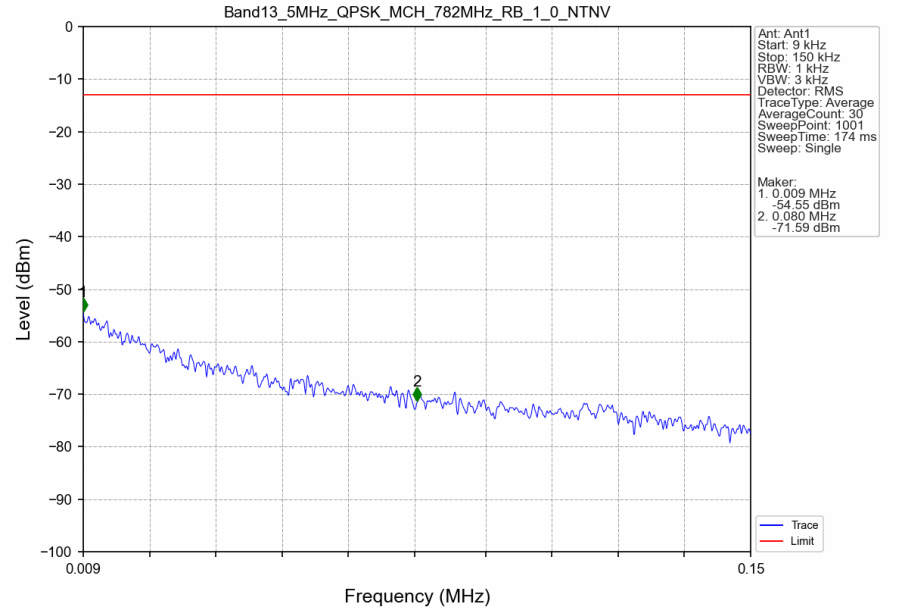


Band13_5MHz_QPSK_LCH_779.5MHz_RB_25_0_NTNV

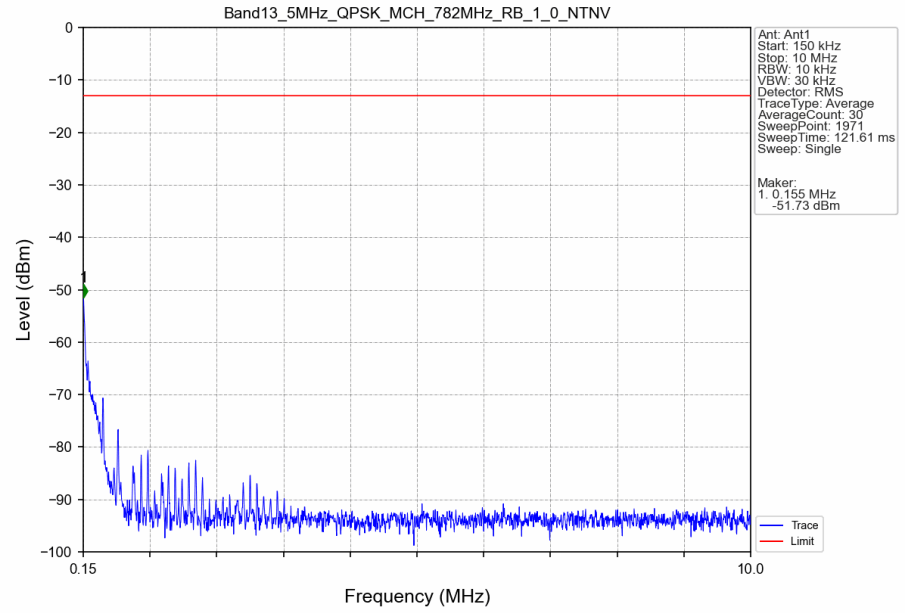


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	758.287	-71.74	-13	Pass
763	775	0.00625	CHP	2	774.988	-63.90	-35	Pass
775	776.9	0.1	CHP	3	776.850	-27.40	-13	Pass
776.9	777	0.03	CHP	4	777.000	-28.45	-13	Pass
777	784.5	0.03	CHP	/	/	/	/	/

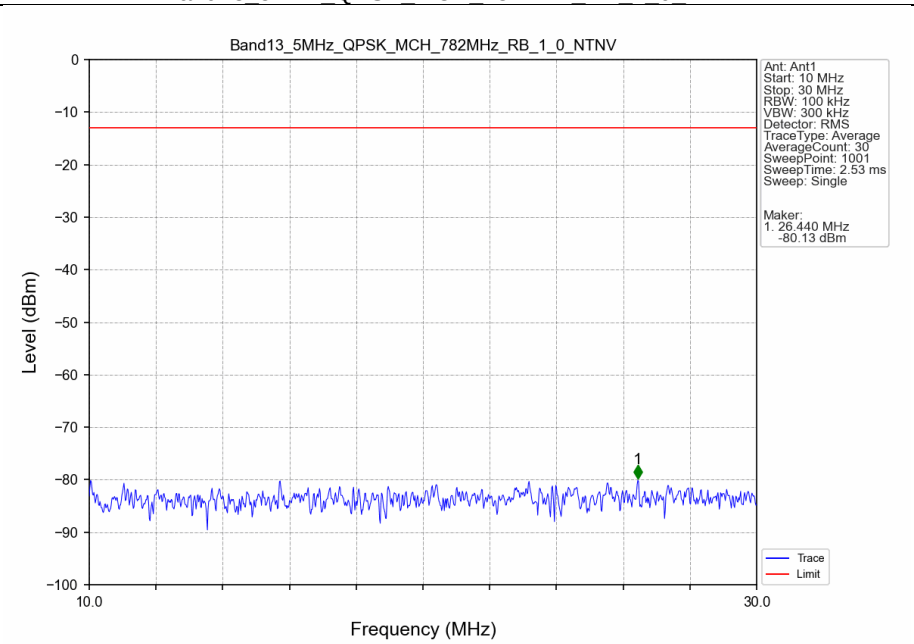
Band13_5MHz_QPSK_MCH_782MHz_RB_1_0_NTNV



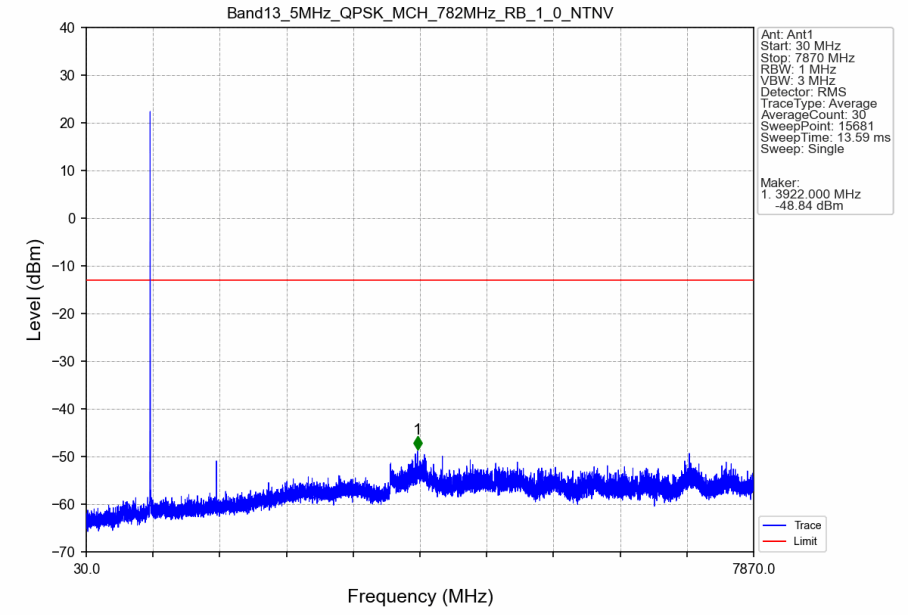
Band13_5MHz_QPSK_MCH_782MHz_RB_1_0_NTNV



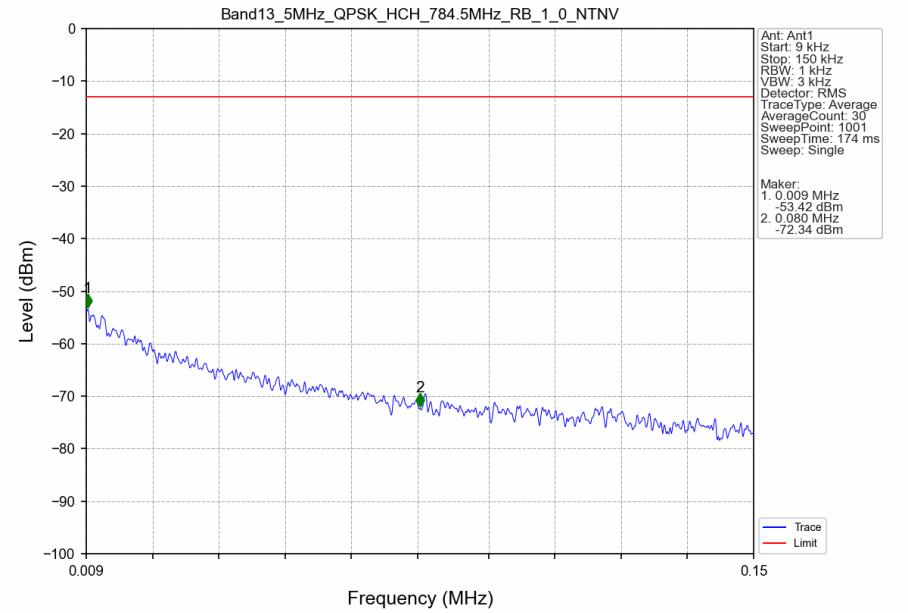
Band13_5MHz_QPSK_MCH_782MHz_RB_1_0_NTNV



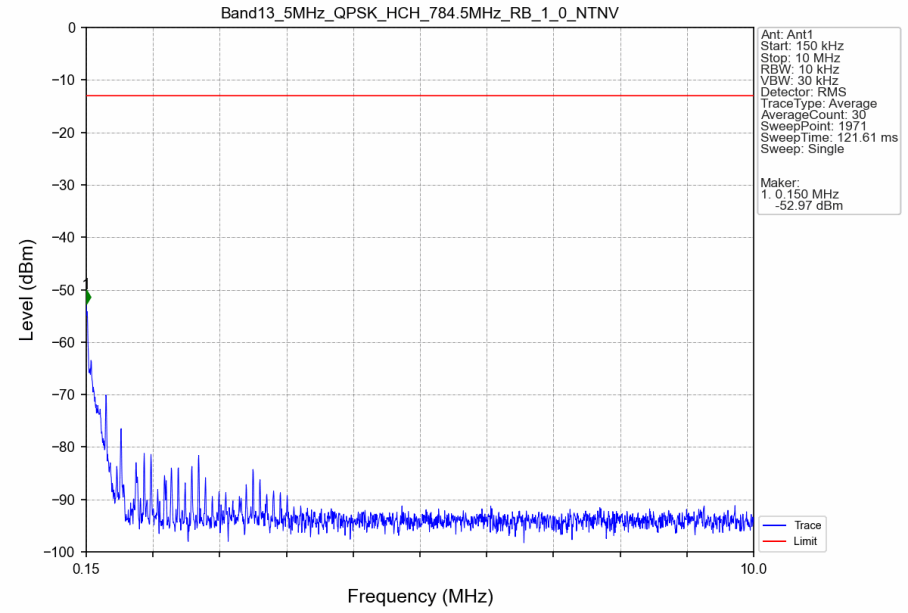
Band13_5MHz_QPSK_MCH_782MHz_RB_1_0_NTNV



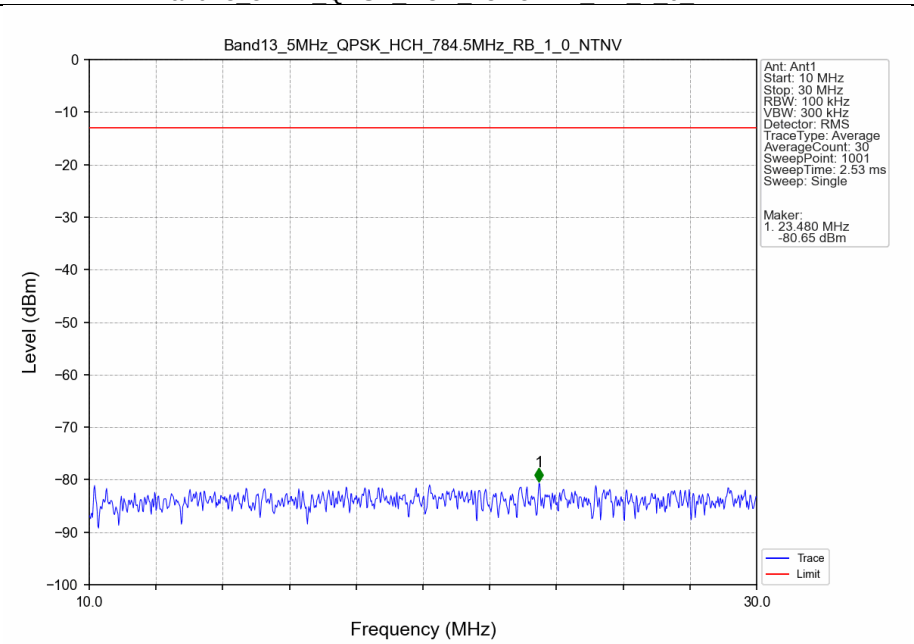
Band13_5MHz_QPSK_HCH_784.5MHz_RB_1_0_NTNV



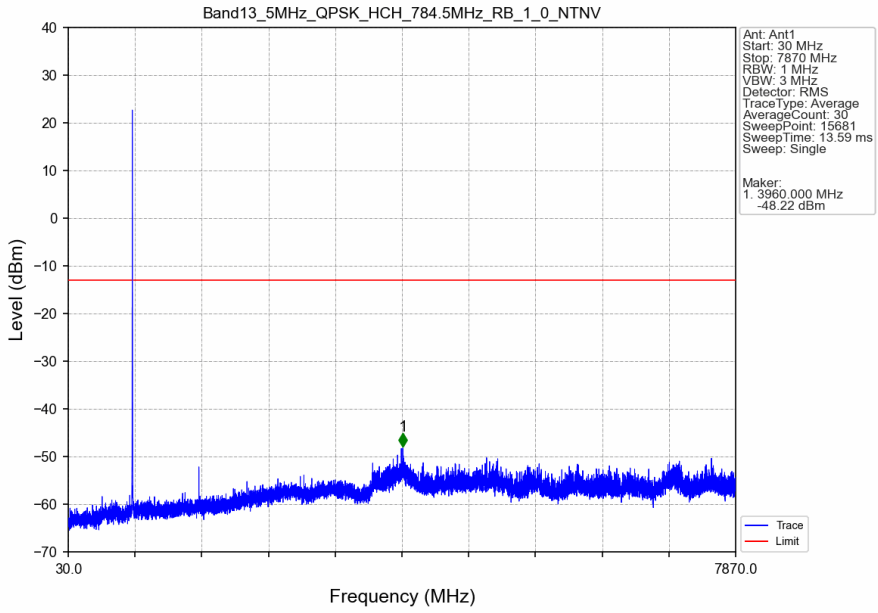
Band13_5MHz_QPSK_HCH_784.5MHz_RB_1_0_NTNV



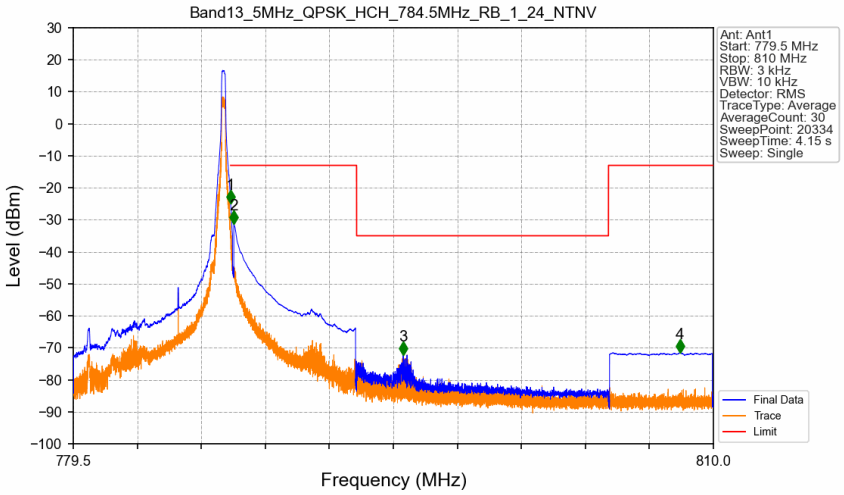
Band13_5MHz_QPSK_HCH_784.5MHz_RB_1_0_NTNV



Band13_5MHz_QPSK_HCH_784.5MHz_RB_1_0_NTNV

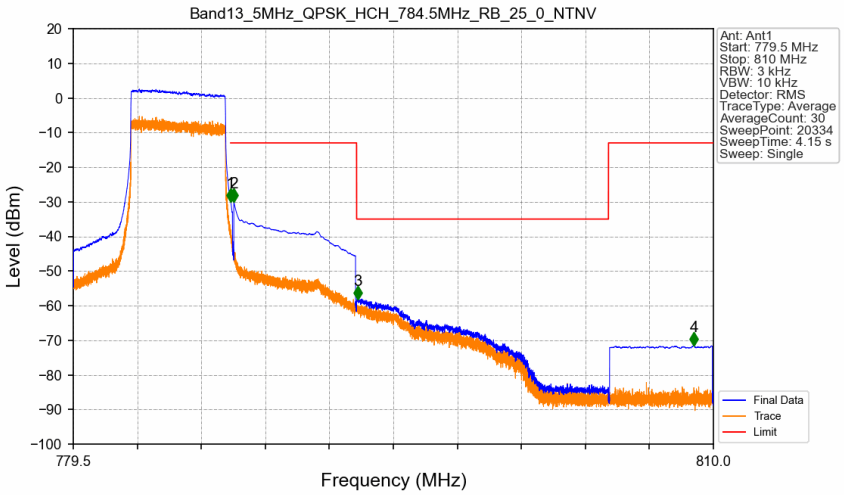


Band13_5MHz_QPSK_HCH_784.5MHz_RB_1_24_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
779.5	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	1	787.000	-24.93	-13	Pass
787.1	793	0.1	CHP	2	787.150	-31.35	-13	Pass
793	805	0.00625	CHP	3	795.223	-72.15	-35	Pass
805	810	0.1	CHP	4	808.401	-71.51	-13	Pass

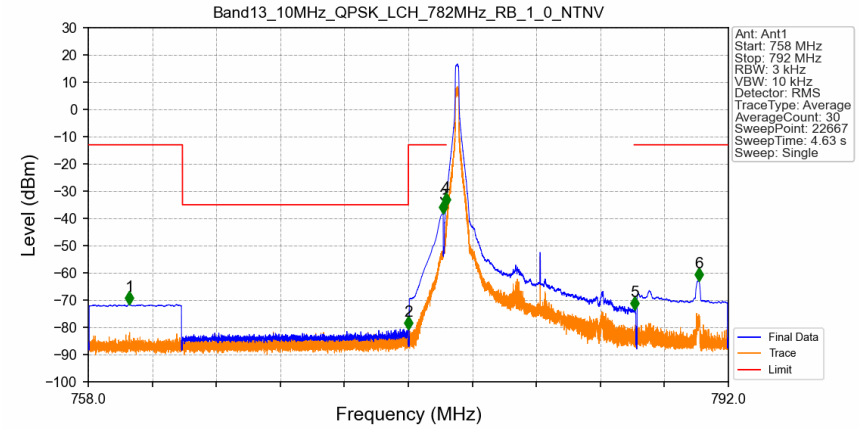
Band13_5MHz_QPSK_HCH_784.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
779.5	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	1	787.000	-29.95	-13	Pass
787.1	793	0.1	CHP	2	787.150	-30.06	-13	Pass
793	805	0.00625	CHP	3	793.071	-58.09	-35	Pass
805	810	0.1	CHP	4	809.070	-71.60	-13	Pass

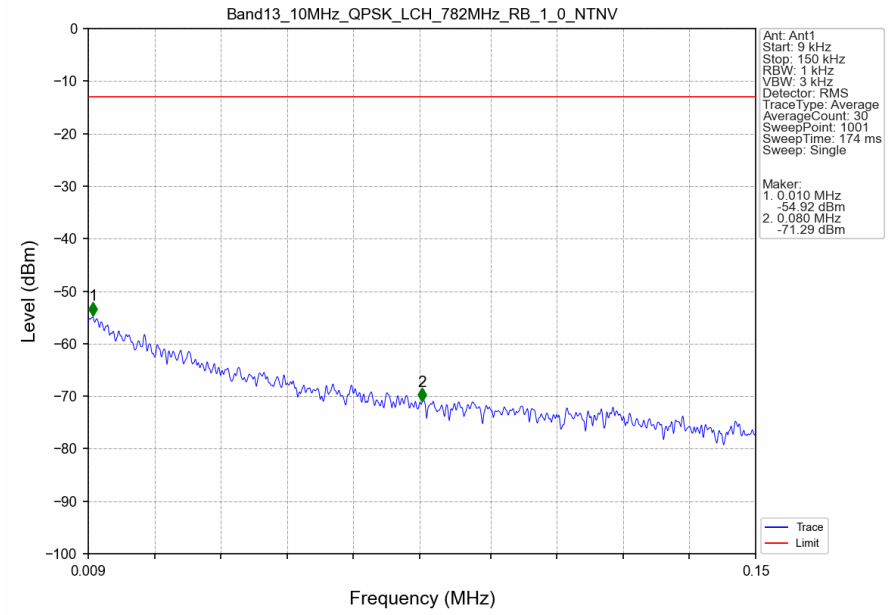
5.2.2 B13_10MHz

Band13_10MHz_QPSK_LCH_782MHz_RB_1_0_NTNV

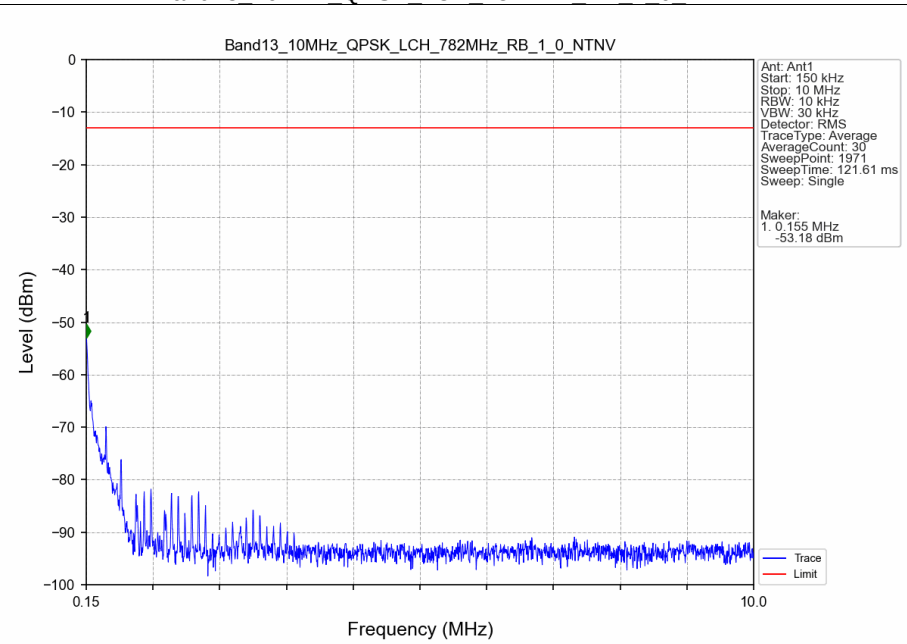


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	760.180	-71.35	-13	Pass
763	775	0.00625	CHP	2	774.988	-80.42	-35	Pass
775	776.9	0.1	CHP	3	776.850	-37.80	-13	Pass
776.9	777	0.03	CHP	4	777.000	-35.01	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	5	787.030	-73.23	-13	Pass
787.1	792	0.1	CHP	6	790.428	-62.66	-13	Pass

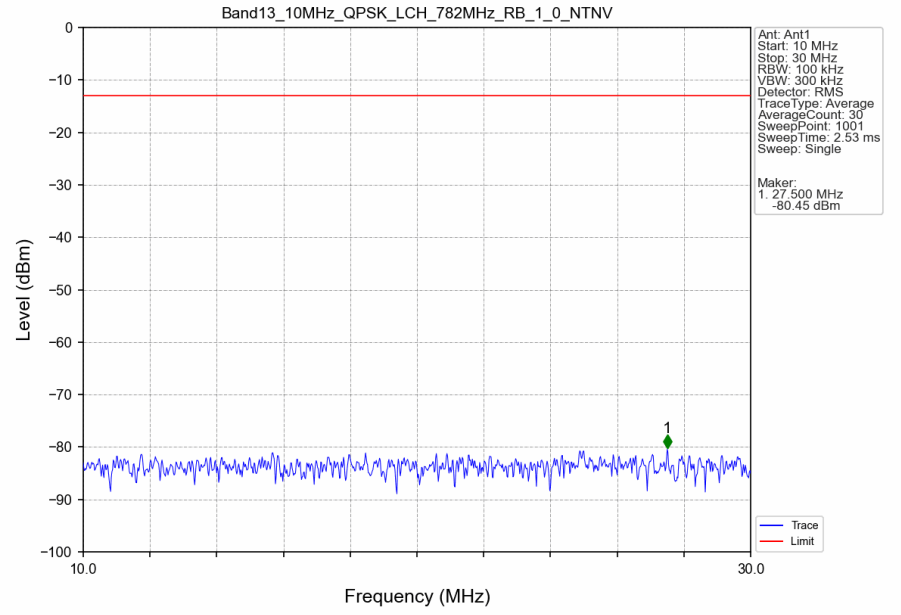
Band13_10MHz_QPSK_LCH_782MHz_RB_1_0_NTNV



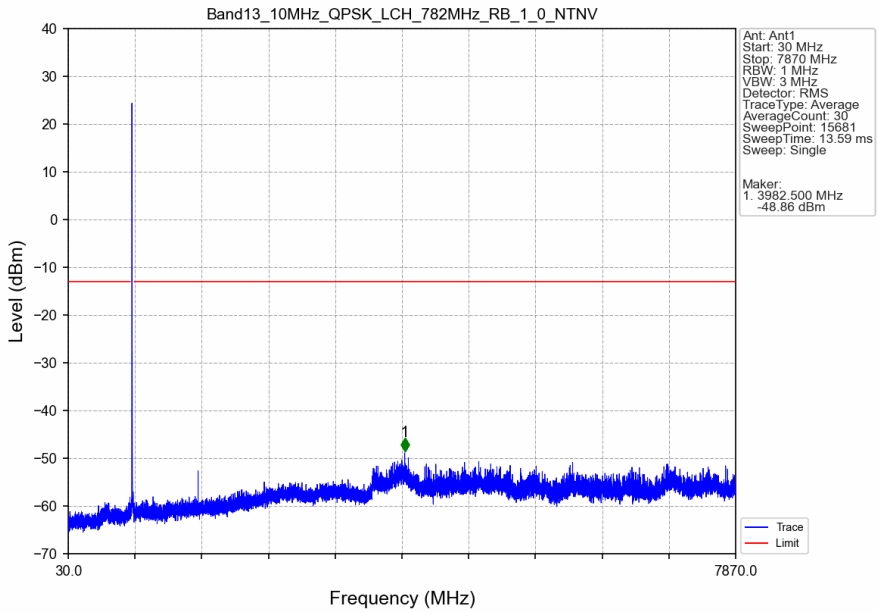
Band13_10MHz_QPSK_LCH_782MHz_RB_1_0_NTNV



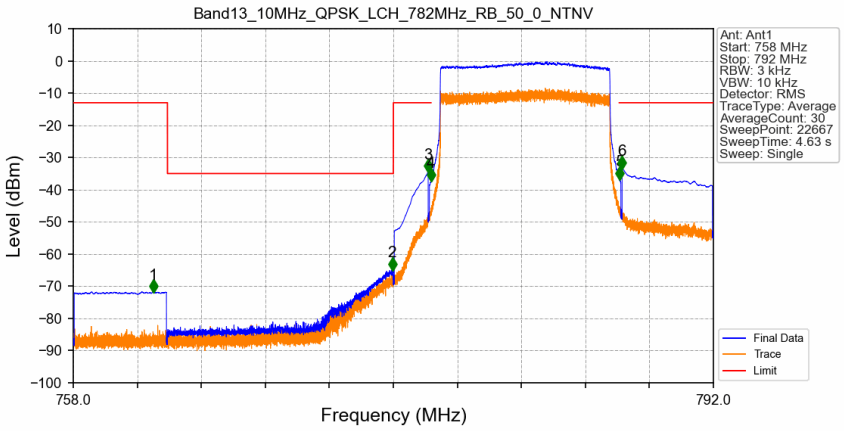
Band13_10MHz_QPSK_LCH_782MHz_RB_1_0_NTNV



Band13_10MHz_QPSK_LCH_782MHz_RB_1_0_NTNV

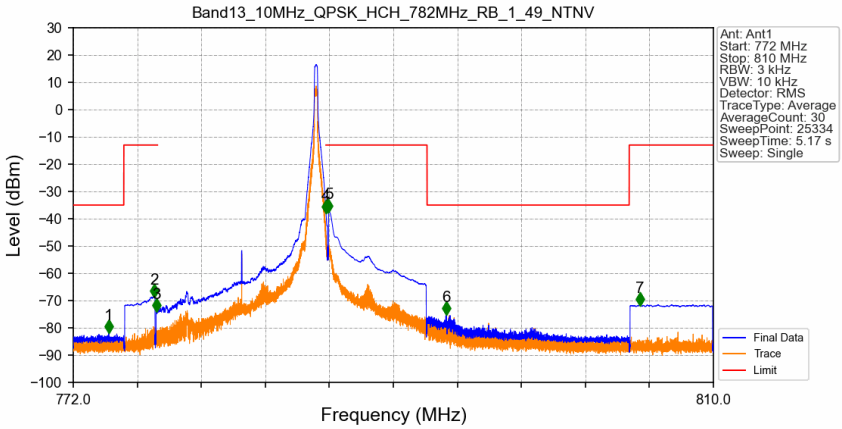


Band13_10MHz_QPSK_LCH_782MHz_RB_50_0_NTNV



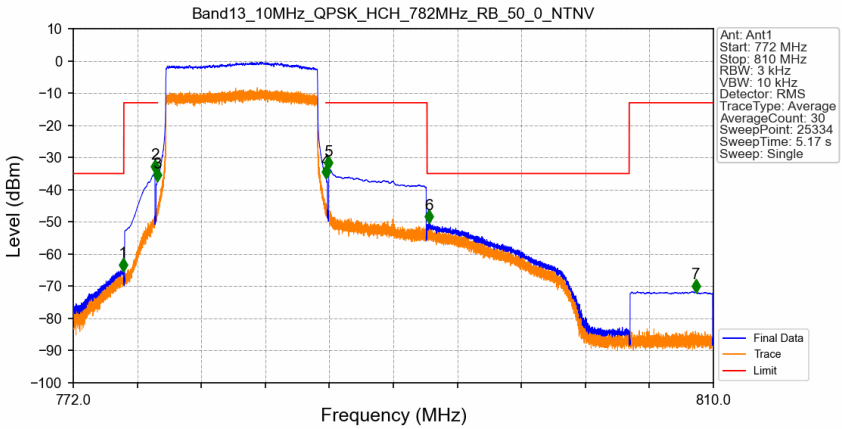
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	762.242	-71.69	-13	Pass
763	775	0.00625	CHP	2	774.941	-64.75	-35	Pass
775	776.9	0.1	CHP	3	776.850	-34.25	-13	Pass
776.9	777	0.03	CHP	4	777.000	-37.05	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	5	787.000	-36.58	-13	Pass
787.1	792	0.1	CHP	6	787.150	-33.24	-13	Pass

Band13_10MHz_QPSK_HCH_782MHz_RB_1_49_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	CHP	1	774.106	-81.61	-35	Pass
775	776.9	0.1	CHP	2	776.793	-68.52	-13	Pass
776.9	777	0.03	CHP	3	776.949	-73.84	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	4	787.000	-37.65	-13	Pass
787.1	793	0.1	CHP	5	787.156	-37.21	-13	Pass
793	805	0.00625	CHP	6	794.151	-74.84	-35	Pass
805	810	0.1	CHP	7	805.627	-71.52	-13	Pass

Band13_10MHz_QPSK_HCH_782MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	CHP	1	774.958	-65.02	-35	Pass
775	776.9	0.1	CHP	2	776.850	-34.43	-13	Pass
776.9	777	0.03	CHP	3	776.998	-37.14	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	4	787.002	-36.28	-13	Pass
787.1	793	0.1	CHP	5	787.150	-33.36	-13	Pass
793	805	0.00625	CHP	6	793.110	-50.13	-35	Pass
805	810	0.1	CHP	7	808.956	-71.56	-13	Pass