1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B41_5MHz_EIRP

Band: 41 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2498.5	1	0	21.88	0.82	22.70	<=33.01	Pass
			13	21.90	0.82	22.72	<=33.01	Pass
			24	21.94	0.82	22.76	<=33.01	Pass
		12	0	20.79	0.82	21.61	<=33.01	Pass
			6	20.87	0.82	21.69	<=33.01	Pass
			13	20.77	0.82	21.59	<=33.01	Pass
		25	0	20.86	0.82	21.68	<=33.01	Pass
	2593	1	0	21.81	0.82	22.63	<=33.01	Pass
			13	21.81	0.82	22.63	<=33.01	Pass
			24	21.84	0.82	22.66	<=33.01	Pass
		12	0	20.77	0.82	21.59	<=33.01	Pass
			6	20.72	0.82	21.54	<=33.01	Pass
			13	20.72	0.82	21.54	<=33.01	Pass
		25	0	20.73	0.82	21.55	<=33.01	Pass
	2687.5	1	0	22.20	0.82	23.02	<=33.01	Pass
			13	21.90	0.82	22.72	<=33.01	Pass
			24	22.01	0.82	22.83	<=33.01	Pass
		12	0	21.13	0.82	21.95	<=33.01	Pass
			6	20.88	0.82	21.70	<=33.01	Pass
			13	21.14	0.82	21.96	<=33.01	Pass
		25	0	21.15	0.82	21.97	<=33.01	Pass
16QAM	2498.5	1	0	20.77	0.82	21.59	<=33.01	Pass
			13	21.14	0.82	21.96	<=33.01	Pass
			24	21.15	0.82	21.97	<=33.01	Pass
		12	0	19.85	0.82	20.67	<=33.01	Pass
			6	19.84	0.82	20.66	<=33.01	Pass
			13	19.73	0.82	20.55	<=33.01	Pass
		25	0	19.72	0.82	20.54	<=33.01	Pass
	2593	1	0	20.97	0.82	21.79	<=33.01	Pass
			13	20.95	0.82	21.77	<=33.01	Pass
			24	20.99	0.82	21.81	<=33.01	Pass
		12	0	19.71	0.82	20.53	<=33.01	Pass
			6	19.70	0.82	20.52	<=33.01	Pass
			13	19.66	0.82	20.48	<=33.01	Pass
		25	0	19.69	0.82	20.51	<=33.01	Pass
	2687.5	1	0	21.00	0.82	21.82	<=33.01	Pass
			13	20.98	0.82	21.80	<=33.01	Pass
			24	20.89	0.82	21.71	<=33.01	Pass
		12	0	20.12	0.82	20.94	<=33.01	Pass
			6	19.90	0.82	20.72	<=33.01	Pass
			13	20.15	0.82	20.97	<=33.01	Pass
		25	0	19.89	0.82	20.71	<=33.01	Pass
Note1: EIRP=Conducted Power+Antenna Gain								

1.1.2 B41_10MHz_EIRP

Band: 41 / Bandwidth: 10MHz / NTNV

Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2501	1	0	21.86	0.82	22.68	<=33.01	Pass
			25	21.97	0.82	22.79	<=33.01	Pass
			49	22.00	0.82	22.82	<=33.01	Pass
		25	0	20.90	0.82	21.72	<=33.01	Pass
			13	20.97	0.82	21.79	<=33.01	Pass
			25	20.89	0.82	21.71	<=33.01	Pass
		50	0	20.99	0.82	21.81	<=33.01	Pass
	2593	1	0	21.80	0.82	22.62	<=33.01	Pass
			25	21.93	0.82	22.75	<=33.01	Pass
			49	21.96	0.82	22.78	<=33.01	Pass
		25	0	20.83	0.82	21.65	<=33.01	Pass
			13	20.75	0.82	21.57	<=33.01	Pass
			25	20.75	0.82	21.57	<=33.01	Pass
		50	0	20.88	0.82	21.70	<=33.01	Pass
	2685	1	0	21.99	0.82	22.81	<=33.01	Pass
			25	22.34	0.82	23.16	<=33.01	Pass
			49	22.26	0.82	23.08	<=33.01	Pass
		25	0	21.14	0.82	21.96	<=33.01	Pass
			13	21.15	0.82	21.97	<=33.01	Pass
			25	21.02	0.82	21.84	<=33.01	Pass
		50	0	21.21	0.82	22.03	<=33.01	Pass
16QAM	2501	1	0	21.13	0.82	21.95	<=33.01	Pass
			25	20.55	0.82	21.37	<=33.01	Pass
			49	20.85	0.82	21.67	<=33.01	Pass
		25	0	19.77	0.82	20.59	<=33.01	Pass
			13	19.87	0.82	20.69	<=33.01	Pass
			25	19.98	0.82	20.80	<=33.01	Pass
		50	0	19.81	0.82	20.63	<=33.01	Pass
	2593	1	0	20.68	0.82	21.50	<=33.01	Pass
			25	20.72	0.82	21.54	<=33.01	Pass
			49	20.70	0.82	21.52	<=33.01	Pass
		25	0	19.83	0.82	20.65	<=33.01	Pass
			13	19.79	0.82	20.61	<=33.01	Pass
			25	19.73	0.82	20.55	<=33.01	Pass
		50	0	19.75	0.82	20.57	<=33.01	Pass
	2685	1	0	21.16	0.82	21.98	<=33.01	Pass
			25	21.26	0.82	22.08	<=33.01	Pass
			49	21.14	0.82	21.96	<=33.01	Pass
		25	0	19.95	0.82	20.77	<=33.01	Pass
			13	20.09	0.82	20.91	<=33.01	Pass
			25	20.02	0.82	20.84	<=33.01	Pass
		50	0	19.91	0.82	20.73	<=33.01	Pass
Note1: EIRP=Conducted Power+Antenna Gain								

1.1.3 B41_15MHz_EIRP

Band: 41 / Bandwidth: 15MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2503.5	1	0	21.69	0.82	22.51	<=33.01	Pass
			38	21.85	0.82	22.67	<=33.01	Pass
			74	21.91	0.82	22.73	<=33.01	Pass
		36	0	20.78	0.82	21.60	<=33.01	Pass
			18	20.81	0.82	21.63	<=33.01	Pass
			39	20.94	0.82	21.76	<=33.01	Pass

		75	0	20.82	0.82	21.64	<=33.01	Pass
	2593	1	0	21.87	0.82	22.69	<=33.01	Pass
			38	21.92	0.82	22.74	<=33.01	Pass
			74	21.90	0.82	22.72	<=33.01	Pass
		36	0	20.76	0.82	21.58	<=33.01	Pass
			18	20.72	0.82	21.54	<=33.01	Pass
			39	20.73	0.82	21.55	<=33.01	Pass
		75	0	20.79	0.82	21.61	<=33.01	Pass
	2682.5	1	0	22.04	0.82	22.86	<=33.01	Pass
			38	22.19	0.82	23.01	<=33.01	Pass
			74	22.04	0.82	22.86	<=33.01	Pass
		36	0	21.06	0.82	21.88	<=33.01	Pass
			18	20.87	0.82	21.69	<=33.01	Pass
			39	21.12	0.82	21.94	<=33.01	Pass
		75	0	20.92	0.82	21.74	<=33.01	Pass
16QAM	2503.5	1	0	20.65	0.82	21.47	<=33.01	Pass
			38	20.98	0.82	21.80	<=33.01	Pass
			74	20.93	0.82	21.75	<=33.01	Pass
		36	0	19.92	0.82	20.74	<=33.01	Pass
			18	19.81	0.82	20.63	<=33.01	Pass
			39	19.81	0.82	20.63	<=33.01	Pass
		75	0	19.79	0.82	20.61	<=33.01	Pass
	2593	1	0	20.59	0.82	21.41	<=33.01	Pass
			38	20.70	0.82	21.52	<=33.01	Pass
			74	20.66	0.82	21.48	<=33.01	Pass
		36	0	19.75	0.82	20.57	<=33.01	Pass
			18	19.70	0.82	20.52	<=33.01	Pass
			39	19.71	0.82	20.53	<=33.01	Pass
		75	0	19.67	0.82	20.49	<=33.01	Pass
	2682.5	1	0	20.84	0.82	21.66	<=33.01	Pass
			38	21.15	0.82	21.97	<=33.01	Pass
			74	21.18	0.82	22.00	<=33.01	Pass
		36	0	19.93	0.82	20.75	<=33.01	Pass
			18	19.91	0.82	20.73	<=33.01	Pass
			39	20.13	0.82	20.95	<=33.01	Pass
		75	0	19.94	0.82	20.76	<=33.01	Pass
Note1: EIRP=Conducted Power+Antenna Gain								

1.1.4 B41_20MHz_EIRP

Band: 41 / Bandwidth: 20MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2506	1	0	21.66	0.82	22.48	<=33.01	Pass
			50	21.86	0.82	22.68	<=33.01	Pass
			99	21.88	0.82	22.70	<=33.01	Pass
		50	0	20.89	0.82	21.71	<=33.01	Pass
			25	20.88	0.82	21.70	<=33.01	Pass
			50	20.93	0.82	21.75	<=33.01	Pass
		100	0	20.95	0.82	21.77	<=33.01	Pass
	2593	1	0	21.63	0.82	22.45	<=33.01	Pass
			50	21.75	0.82	22.57	<=33.01	Pass
			99	21.73	0.82	22.55	<=33.01	Pass
		50	0	20.87	0.82	21.69	<=33.01	Pass
			25	20.82	0.82	21.64	<=33.01	Pass
			50	20.79	0.82	21.61	<=33.01	Pass
		100	0	20.77	0.82	21.59	<=33.01	Pass

	2680	1	0	21.96	0.82	22.78	<=33.01	Pass
			50	22.00	0.82	22.82	<=33.01	Pass
			99	21.98	0.82	22.80	<=33.01	Pass
		50	0	20.97	0.82	21.79	<=33.01	Pass
			25	21.15	0.82	21.97	<=33.01	Pass
			50	21.18	0.82	22.00	<=33.01	Pass
		100	0	21.17	0.82	21.99	<=33.01	Pass
16QAM	2506	1	0	20.36	0.82	21.18	<=33.01	Pass
			50	21.04	0.82	21.86	<=33.01	Pass
			99	20.93	0.82	21.75	<=33.01	Pass
		50	0	19.84	0.82	20.66	<=33.01	Pass
			25	19.94	0.82	20.76	<=33.01	Pass
			50	19.89	0.82	20.71	<=33.01	Pass
		100	0	19.91	0.82	20.73	<=33.01	Pass
	2593	1	0	20.82	0.82	21.64	<=33.01	Pass
			50	20.54	0.82	21.36	<=33.01	Pass
			99	20.85	0.82	21.67	<=33.01	Pass
		50	0	19.74	0.82	20.56	<=33.01	Pass
			25	19.86	0.82	20.68	<=33.01	Pass
			50	19.66	0.82	20.48	<=33.01	Pass
		100	0	19.71	0.82	20.53	<=33.01	Pass
	2680	1	0	20.92	0.82	21.74	<=33.01	Pass
			50	21.06	0.82	21.88	<=33.01	Pass
			99	20.86	0.82	21.68	<=33.01	Pass
		50	0	20.07	0.82	20.89	<=33.01	Pass
			25	19.97	0.82	20.79	<=33.01	Pass
			50	19.98	0.82	20.80	<=33.01	Pass
		100	0	20.13	0.82	20.95	<=33.01	Pass
Note1: EIRP=Conducted Power+Antenna Gain								

2. Frequency Stability

2.1 Test Result

2.1.1 B41_5MHz

Band: 41 / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2498.5	25	0	20	3.27	-41.170	-0.0165	-2.5 to 2.5	Pass
					3.85	13.590	0.0054	-2.5 to 2.5	Pass
					4.43	-0.958	-0.0004	-2.5 to 2.5	Pass
				-30	3.85	4.878	0.0020	-2.5 to 2.5	Pass
				-20	3.85	3.848	0.0015	-2.5 to 2.5	Pass
				-10	3.85	15.635	0.0063	-2.5 to 2.5	Pass
				0	3.85	-2.089	-0.0008	-2.5 to 2.5	Pass
				10	3.85	4.320	0.0017	-2.5 to 2.5	Pass
				30	3.85	-7.954	-0.0032	-2.5 to 2.5	Pass
				40	3.85	0.901	0.0004	-2.5 to 2.5	Pass
				50	3.85	-9.184	-0.0037	-2.5 to 2.5	Pass
	2593	25	0	20	3.27	-46.821	-0.0181	-2.5 to 2.5	Pass
					3.85	-3.433	-0.0013	-2.5 to 2.5	Pass
					4.43	-3.304	-0.0013	-2.5 to 2.5	Pass
				-30	3.85	-3.505	-0.0014	-2.5 to 2.5	Pass
				-20	3.85	-6.552	-0.0025	-2.5 to 2.5	Pass
				-10	3.85	5.422	0.0021	-2.5 to 2.5	Pass

				0	3.85	-8.383	-0.0032	-2.5 to 2.5	Pass
				10	3.85	1.416	0.0005	-2.5 to 2.5	Pass
				30	3.85	9.112	0.0035	-2.5 to 2.5	Pass
				40	3.85	-2.375	-0.0009	-2.5 to 2.5	Pass
				50	3.85	3.748	0.0014	-2.5 to 2.5	Pass
	2687.5	25	0	20	3.27	-90.179	-0.0336	-2.5 to 2.5	Pass
					3.85	-62.456	-0.0232	-2.5 to 2.5	Pass
					4.43	130.591	0.0486	-2.5 to 2.5	Pass
				-30	3.85	6.008	0.0022	-2.5 to 2.5	Pass
				-20	3.85	3.290	0.0012	-2.5 to 2.5	Pass
				-10	3.85	-7.296	-0.0027	-2.5 to 2.5	Pass
				0	3.85	-7.138	-0.0027	-2.5 to 2.5	Pass
				10	3.85	4.964	0.0018	-2.5 to 2.5	Pass
				30	3.85	-2.532	-0.0009	-2.5 to 2.5	Pass
				40	3.85	6.437	0.0024	-2.5 to 2.5	Pass
				50	3.85	3.877	0.0014	-2.5 to 2.5	Pass
16QAM	2498.5	25	0	20	3.27	7.167	0.0029	-2.5 to 2.5	Pass
					3.85	-10.858	-0.0043	-2.5 to 2.5	Pass
					4.43	-3.161	-0.0013	-2.5 to 2.5	Pass
				-30	3.85	-1.144	-0.0005	-2.5 to 2.5	Pass
				-20	3.85	3.476	0.0014	-2.5 to 2.5	Pass
				-10	3.85	-2.832	-0.0011	-2.5 to 2.5	Pass
				0	3.85	-7.281	-0.0029	-2.5 to 2.5	Pass
				10	3.85	2.918	0.0012	-2.5 to 2.5	Pass
				30	3.85	-9.055	-0.0036	-2.5 to 2.5	Pass
				40	3.85	-2.518	-0.0010	-2.5 to 2.5	Pass
				50	3.85	2.246	0.0009	-2.5 to 2.5	Pass
	2593	25	0	20	3.27	1.359	0.0005	-2.5 to 2.5	Pass
					3.85	-13.776	-0.0053	-2.5 to 2.5	Pass
					4.43	1.001	0.0004	-2.5 to 2.5	Pass
				-30	3.85	-2.947	-0.0011	-2.5 to 2.5	Pass
				-20	3.85	-3.748	-0.0014	-2.5 to 2.5	Pass
				-10	3.85	-17.567	-0.0068	-2.5 to 2.5	Pass
				0	3.85	10.858	0.0042	-2.5 to 2.5	Pass
				10	3.85	5.736	0.0022	-2.5 to 2.5	Pass
				30	3.85	6.137	0.0024	-2.5 to 2.5	Pass
				40	3.85	-10.643	-0.0041	-2.5 to 2.5	Pass
				50	3.85	-8.955	-0.0035	-2.5 to 2.5	Pass
	2687.5	25	0	20	3.27	-8.326	-0.0031	-2.5 to 2.5	Pass
					3.85	-7.539	-0.0028	-2.5 to 2.5	Pass
					4.43	-8.512	-0.0032	-2.5 to 2.5	Pass
				-30	3.85	-2.832	-0.0011	-2.5 to 2.5	Pass
				-20	3.85	6.437	0.0024	-2.5 to 2.5	Pass
				-10	3.85	-8.612	-0.0032	-2.5 to 2.5	Pass
				0	3.85	-17.424	-0.0065	-2.5 to 2.5	Pass
				10	3.85	-2.174	-0.0008	-2.5 to 2.5	Pass
				30	3.85	0.658	0.0002	-2.5 to 2.5	Pass
				40	3.85	-6.580	-0.0024	-2.5 to 2.5	Pass
				50	3.85	-13.890	-0.0052	-2.5 to 2.5	Pass

2.1.2 B41_10MHz

Band: 41 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2501	50	0	20	3.27	-15.807	-0.0063	-2.5 to 2.5	Pass
					3.85	5.522	0.0022	-2.5 to 2.5	Pass

					4.43	-2.704	-0.0011	-2.5 to 2.5	Pass
				-30	3.85	-2.546	-0.0010	-2.5 to 2.5	Pass
				-20	3.85	-3.562	-0.0014	-2.5 to 2.5	Pass
				-10	3.85	-0.615	-0.0002	-2.5 to 2.5	Pass
				0	3.85	-4.292	-0.0017	-2.5 to 2.5	Pass
				10	3.85	4.907	0.0020	-2.5 to 2.5	Pass
				30	3.85	13.990	0.0056	-2.5 to 2.5	Pass
				40	3.85	-0.300	-0.0001	-2.5 to 2.5	Pass
				50	3.85	1.116	0.0004	-2.5 to 2.5	Pass
	2593	50	0	20	3.27	-49.324	-0.0190	-2.5 to 2.5	Pass
					3.85	-4.978	-0.0019	-2.5 to 2.5	Pass
					4.43	-2.346	-0.0009	-2.5 to 2.5	Pass
				-30	3.85	-5.264	-0.0020	-2.5 to 2.5	Pass
				-20	3.85	0.844	0.0003	-2.5 to 2.5	Pass
				-10	3.85	0.014	0.0000	-2.5 to 2.5	Pass
				0	3.85	-3.490	-0.0013	-2.5 to 2.5	Pass
				10	3.85	0.687	0.0003	-2.5 to 2.5	Pass
				30	3.85	-7.296	-0.0028	-2.5 to 2.5	Pass
				40	3.85	-4.005	-0.0015	-2.5 to 2.5	Pass
				50	3.85	4.864	0.0019	-2.5 to 2.5	Pass
	2685	50	0	20	3.27	-61.512	-0.0229	-2.5 to 2.5	Pass
					3.85	-0.315	-0.0001	-2.5 to 2.5	Pass
					4.43	8.512	0.0032	-2.5 to 2.5	Pass
				-30	3.85	-5.221	-0.0019	-2.5 to 2.5	Pass
				-20	3.85	3.705	0.0014	-2.5 to 2.5	Pass
				-10	3.85	-0.629	-0.0002	-2.5 to 2.5	Pass
				0	3.85	-1.860	-0.0007	-2.5 to 2.5	Pass
				10	3.85	-9.198	-0.0034	-2.5 to 2.5	Pass
				30	3.85	4.764	0.0018	-2.5 to 2.5	Pass
				40	3.85	5.679	0.0021	-2.5 to 2.5	Pass
				50	3.85	-6.394	-0.0024	-2.5 to 2.5	Pass
16QAM	2501	50	0	20	3.27	-2.375	-0.0009	-2.5 to 2.5	Pass
					3.85	-3.161	-0.0013	-2.5 to 2.5	Pass
					4.43	-10.958	-0.0044	-2.5 to 2.5	Pass
				-30	3.85	-3.433	-0.0014	-2.5 to 2.5	Pass
				-20	3.85	0.858	0.0003	-2.5 to 2.5	Pass
				-10	3.85	-4.163	-0.0017	-2.5 to 2.5	Pass
				0	3.85	1.202	0.0005	-2.5 to 2.5	Pass
				10	3.85	-12.603	-0.0050	-2.5 to 2.5	Pass
				30	3.85	4.249	0.0017	-2.5 to 2.5	Pass
				40	3.85	-9.012	-0.0036	-2.5 to 2.5	Pass
				50	3.85	-8.068	-0.0032	-2.5 to 2.5	Pass
	2593	50	0	20	3.27	6.609	0.0025	-2.5 to 2.5	Pass
					3.85	-4.177	-0.0016	-2.5 to 2.5	Pass
					4.43	-4.950	-0.0019	-2.5 to 2.5	Pass
				-30	3.85	-2.990	-0.0012	-2.5 to 2.5	Pass
				-20	3.85	-9.141	-0.0035	-2.5 to 2.5	Pass
				-10	3.85	3.676	0.0014	-2.5 to 2.5	Pass
				0	3.85	-1.831	-0.0007	-2.5 to 2.5	Pass
				10	3.85	-6.051	-0.0023	-2.5 to 2.5	Pass
				30	3.85	-7.281	-0.0028	-2.5 to 2.5	Pass
				40	3.85	-5.679	-0.0022	-2.5 to 2.5	Pass
				50	3.85	-4.377	-0.0017	-2.5 to 2.5	Pass
	2685	50	0	20	3.27	-7.410	-0.0028	-2.5 to 2.5	Pass
					3.85	-1.688	-0.0006	-2.5 to 2.5	Pass
					4.43	1.287	0.0005	-2.5 to 2.5	Pass
				-30	3.85	-8.497	-0.0032	-2.5 to 2.5	Pass
				-20	3.85	-2.046	-0.0008	-2.5 to 2.5	Pass
				-10	3.85	-5.765	-0.0021	-2.5 to 2.5	Pass

				0	3.85	-5.822	-0.0022	-2.5 to 2.5	Pass
				10	3.85	-2.718	-0.0010	-2.5 to 2.5	Pass
				30	3.85	0.715	0.0003	-2.5 to 2.5	Pass
				40	3.85	5.937	0.0022	-2.5 to 2.5	Pass
				50	3.85	-8.483	-0.0032	-2.5 to 2.5	Pass

2.1.3 B41_15MHz

Band: 41 / Bandwidth: 15MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2503.5	75	0	20	3.27	-20.914	-0.0084	-2.5 to 2.5	Pass
					3.85	-2.732	-0.0011	-2.5 to 2.5	Pass
					4.43	7.653	0.0031	-2.5 to 2.5	Pass
				-30	3.85	3.920	0.0016	-2.5 to 2.5	Pass
				-20	3.85	-1.659	-0.0007	-2.5 to 2.5	Pass
				-10	3.85	-3.548	-0.0014	-2.5 to 2.5	Pass
				0	3.85	3.362	0.0013	-2.5 to 2.5	Pass
				10	3.85	-8.984	-0.0036	-2.5 to 2.5	Pass
				30	3.85	5.479	0.0022	-2.5 to 2.5	Pass
				40	3.85	-7.510	-0.0030	-2.5 to 2.5	Pass
				50	3.85	-6.037	-0.0024	-2.5 to 2.5	Pass
	2593	75	0	20	3.27	-38.867	-0.0150	-2.5 to 2.5	Pass
					3.85	-6.967	-0.0027	-2.5 to 2.5	Pass
					4.43	-3.176	-0.0012	-2.5 to 2.5	Pass
				-30	3.85	-5.078	-0.0020	-2.5 to 2.5	Pass
				-20	3.85	-0.358	-0.0001	-2.5 to 2.5	Pass
				-10	3.85	-2.117	-0.0008	-2.5 to 2.5	Pass
				0	3.85	0.043	0.0000	-2.5 to 2.5	Pass
				10	3.85	1.030	0.0004	-2.5 to 2.5	Pass
				30	3.85	-3.619	-0.0014	-2.5 to 2.5	Pass
				40	3.85	-8.311	-0.0032	-2.5 to 2.5	Pass
				50	3.85	-0.429	-0.0002	-2.5 to 2.5	Pass
	2682.5	75	0	20	3.27	-51.427	-0.0192	-2.5 to 2.5	Pass
					3.85	8.655	0.0032	-2.5 to 2.5	Pass
					4.43	5.808	0.0022	-2.5 to 2.5	Pass
				-30	3.85	5.035	0.0019	-2.5 to 2.5	Pass
				-20	3.85	-9.298	-0.0035	-2.5 to 2.5	Pass
				-10	3.85	-1.559	-0.0006	-2.5 to 2.5	Pass
				0	3.85	-4.520	-0.0017	-2.5 to 2.5	Pass
				10	3.85	2.260	0.0008	-2.5 to 2.5	Pass
				30	3.85	-3.219	-0.0012	-2.5 to 2.5	Pass
				40	3.85	2.303	0.0009	-2.5 to 2.5	Pass
				50	3.85	-1.130	-0.0004	-2.5 to 2.5	Pass
16QAM	2503.5	75	0	20	3.27	7.911	0.0032	-2.5 to 2.5	Pass
					3.85	-1.531	-0.0006	-2.5 to 2.5	Pass
					4.43	-3.204	-0.0013	-2.5 to 2.5	Pass
				-30	3.85	-6.995	-0.0028	-2.5 to 2.5	Pass
				-20	3.85	-0.644	-0.0003	-2.5 to 2.5	Pass
				-10	3.85	1.116	0.0004	-2.5 to 2.5	Pass
				0	3.85	-1.073	-0.0004	-2.5 to 2.5	Pass
				10	3.85	-2.346	-0.0009	-2.5 to 2.5	Pass
				30	3.85	-11.158	-0.0045	-2.5 to 2.5	Pass
				40	3.85	3.576	0.0014	-2.5 to 2.5	Pass
				50	3.85	2.117	0.0008	-2.5 to 2.5	Pass
	2593	75	0	20	3.27	4.292	0.0017	-2.5 to 2.5	Pass
					3.85	-7.281	-0.0028	-2.5 to 2.5	Pass

					4.43	1.616	0.0006	-2.5 to 2.5	Pass
				-30	3.85	-4.148	-0.0016	-2.5 to 2.5	Pass
				-20	3.85	-7.553	-0.0029	-2.5 to 2.5	Pass
				-10	3.85	-5.050	-0.0019	-2.5 to 2.5	Pass
				0	3.85	-0.944	-0.0004	-2.5 to 2.5	Pass
				10	3.85	-2.747	-0.0011	-2.5 to 2.5	Pass
				30	3.85	0.072	0.0000	-2.5 to 2.5	Pass
				40	3.85	-4.520	-0.0017	-2.5 to 2.5	Pass
				50	3.85	-9.027	-0.0035	-2.5 to 2.5	Pass
	2682.5	75	0	20	3.27	6.237	0.0023	-2.5 to 2.5	Pass
					3.85	-3.161	-0.0012	-2.5 to 2.5	Pass
					4.43	1.459	0.0005	-2.5 to 2.5	Pass
				-30	3.85	-6.080	-0.0023	-2.5 to 2.5	Pass
				-20	3.85	-2.618	-0.0010	-2.5 to 2.5	Pass
				-10	3.85	-4.520	-0.0017	-2.5 to 2.5	Pass
				0	3.85	-9.971	-0.0037	-2.5 to 2.5	Pass
				10	3.85	3.104	0.0012	-2.5 to 2.5	Pass
				30	3.85	7.725	0.0029	-2.5 to 2.5	Pass
				40	3.85	2.203	0.0008	-2.5 to 2.5	Pass
				50	3.85	-2.975	-0.0011	-2.5 to 2.5	Pass

2.1.4 B41_20MHz

Band: 41 / Bandwidth: 20MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2506	100	0	20	3.27	-15.607	-0.0062	-2.5 to 2.5	Pass
					3.85	-5.093	-0.0020	-2.5 to 2.5	Pass
					4.43	-2.789	-0.0011	-2.5 to 2.5	Pass
				-30	3.85	4.792	0.0019	-2.5 to 2.5	Pass
				-20	3.85	4.063	0.0016	-2.5 to 2.5	Pass
				-10	3.85	2.861	0.0011	-2.5 to 2.5	Pass
				0	3.85	-3.805	-0.0015	-2.5 to 2.5	Pass
				10	3.85	-2.046	-0.0008	-2.5 to 2.5	Pass
				30	3.85	-2.933	-0.0012	-2.5 to 2.5	Pass
				40	3.85	-4.420	-0.0018	-2.5 to 2.5	Pass
				50	3.85	1.101	0.0004	-2.5 to 2.5	Pass
	2593	100	0	20	3.27	-36.778	-0.0142	-2.5 to 2.5	Pass
					3.85	-1.860	-0.0007	-2.5 to 2.5	Pass
					4.43	-2.174	-0.0008	-2.5 to 2.5	Pass
				-30	3.85	1.373	0.0005	-2.5 to 2.5	Pass
				-20	3.85	-6.981	-0.0027	-2.5 to 2.5	Pass
				-10	3.85	-3.190	-0.0012	-2.5 to 2.5	Pass
				0	3.85	-9.270	-0.0036	-2.5 to 2.5	Pass
				10	3.85	-3.304	-0.0013	-2.5 to 2.5	Pass
				30	3.85	4.792	0.0018	-2.5 to 2.5	Pass
				40	3.85	-3.633	-0.0014	-2.5 to 2.5	Pass
				50	3.85	-5.836	-0.0023	-2.5 to 2.5	Pass
	2680	100	0	20	3.27	-44.746	-0.0167	-2.5 to 2.5	Pass
					3.85	-3.633	-0.0014	-2.5 to 2.5	Pass
					4.43	9.141	0.0034	-2.5 to 2.5	Pass
				-30	3.85	-7.997	-0.0030	-2.5 to 2.5	Pass
				-20	3.85	-9.098	-0.0034	-2.5 to 2.5	Pass
				-10	3.85	-9.985	-0.0037	-2.5 to 2.5	Pass
				0	3.85	0.930	0.0003	-2.5 to 2.5	Pass
				10	3.85	-8.984	-0.0034	-2.5 to 2.5	Pass
				30	3.85	-4.048	-0.0015	-2.5 to 2.5	Pass

				40	3.85	-5.150	-0.0019	-2.5 to 2.5	Pass
				50	3.85	-3.991	-0.0015	-2.5 to 2.5	Pass
16QAM	2506	100	0	20	3.27	1.373	0.0005	-2.5 to 2.5	Pass
					3.85	-9.956	-0.0040	-2.5 to 2.5	Pass
					4.43	-4.835	-0.0019	-2.5 to 2.5	Pass
				-30	3.85	-1.216	-0.0005	-2.5 to 2.5	Pass
				-20	3.85	-4.921	-0.0020	-2.5 to 2.5	Pass
				-10	3.85	3.247	0.0013	-2.5 to 2.5	Pass
				0	3.85	2.933	0.0012	-2.5 to 2.5	Pass
				10	3.85	1.831	0.0007	-2.5 to 2.5	Pass
				30	3.85	2.146	0.0009	-2.5 to 2.5	Pass
				40	3.85	2.203	0.0009	-2.5 to 2.5	Pass
				50	3.85	0.901	0.0004	-2.5 to 2.5	Pass
	2593	100	0	20	3.27	-3.061	-0.0012	-2.5 to 2.5	Pass
					3.85	-5.679	-0.0022	-2.5 to 2.5	Pass
					4.43	-7.582	-0.0029	-2.5 to 2.5	Pass
				-30	3.85	0.014	0.0000	-2.5 to 2.5	Pass
				-20	3.85	1.845	0.0007	-2.5 to 2.5	Pass
				-10	3.85	-0.243	-0.0001	-2.5 to 2.5	Pass
				0	3.85	-6.537	-0.0025	-2.5 to 2.5	Pass
				10	3.85	2.446	0.0009	-2.5 to 2.5	Pass
				30	3.85	-5.536	-0.0021	-2.5 to 2.5	Pass
				40	3.85	-3.619	-0.0014	-2.5 to 2.5	Pass
				50	3.85	-7.653	-0.0030	-2.5 to 2.5	Pass
	2680	100	0	20	3.27	2.689	0.0010	-2.5 to 2.5	Pass
					3.85	1.245	0.0005	-2.5 to 2.5	Pass
					4.43	-1.616	-0.0006	-2.5 to 2.5	Pass
				-30	3.85	-7.954	-0.0030	-2.5 to 2.5	Pass
				-20	3.85	0.858	0.0003	-2.5 to 2.5	Pass
				-10	3.85	-6.809	-0.0025	-2.5 to 2.5	Pass
				0	3.85	1.888	0.0007	-2.5 to 2.5	Pass
				10	3.85	-13.132	-0.0049	-2.5 to 2.5	Pass
				30	3.85	-9.599	-0.0036	-2.5 to 2.5	Pass
				40	3.85	-4.134	-0.0015	-2.5 to 2.5	Pass
				50	3.85	-9.542	-0.0036	-2.5 to 2.5	Pass

3. Modulation Characteristics

3.1 Test Result

3.1.1 B41_5MHz

Band: 41 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2593	25	0	Refer To Test Graph		Pass
16QAM	2593	25	0	Refer To Test Graph		Pass

3.1.2 B41_10MHz

Band: 41 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2593	50	0	Refer To Test Graph		Pass
16QAM	2593	50	0	Refer To Test Graph		Pass

3.1.3 B41_15MHz

Band: 41 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2593	75	0	Refer To Test Graph		Pass
16QAM	2593	75	0	Refer To Test Graph		Pass

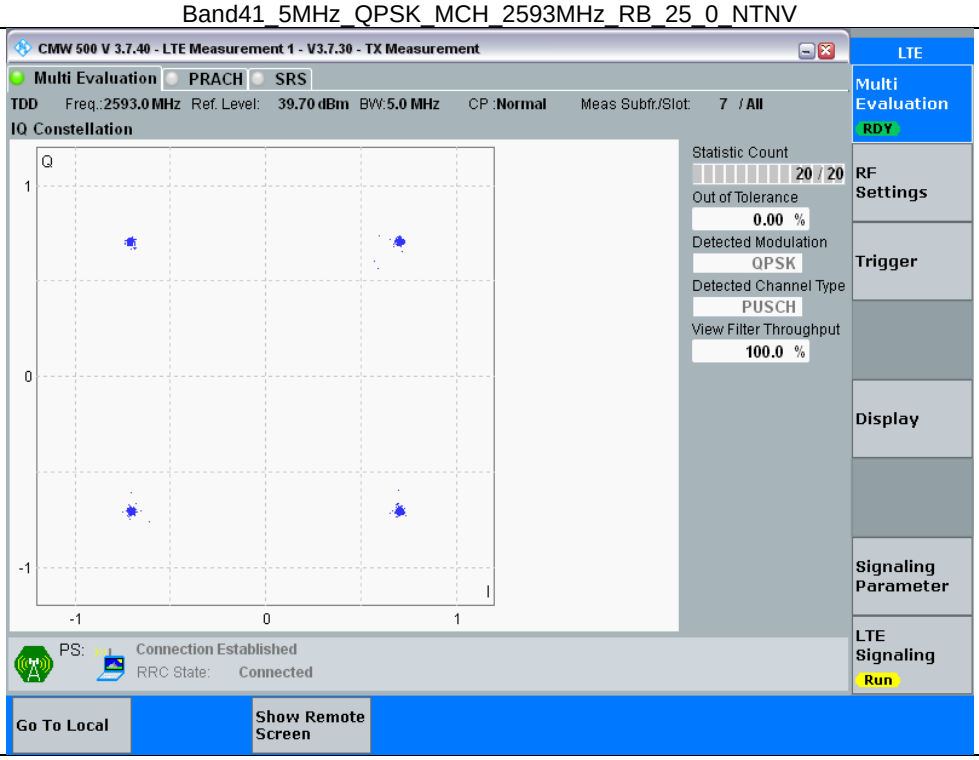
3.1.4 B41_20MHz

Band: 41 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2593	100	0	Refer To Test Graph		Pass
16QAM	2593	100	0	Refer To Test Graph		Pass

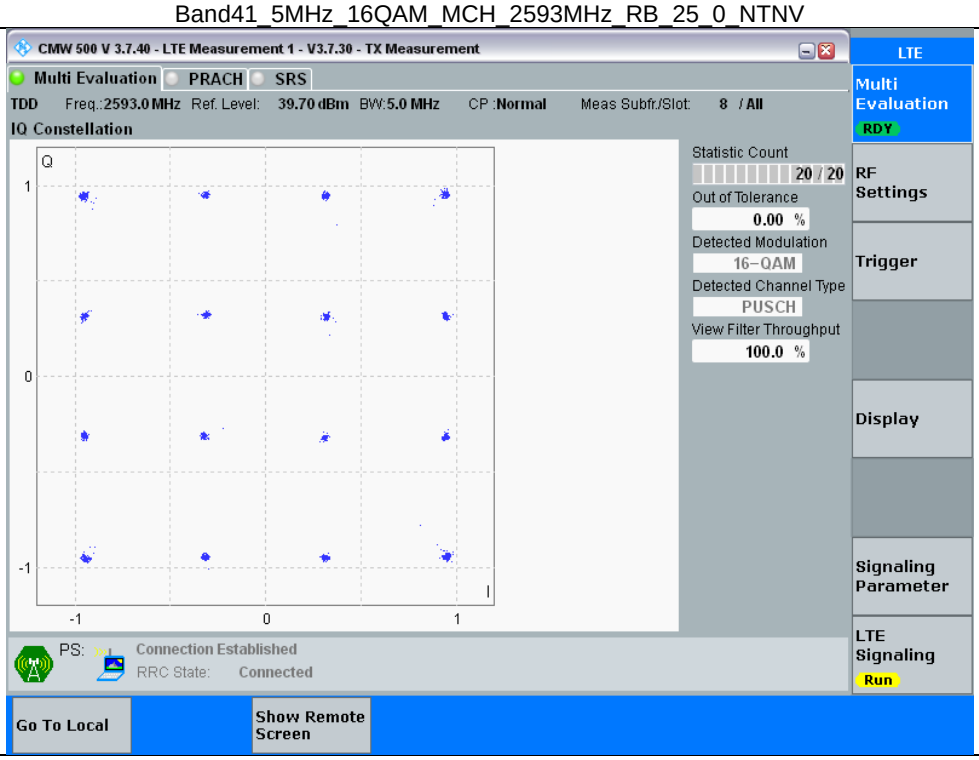
3.2 Test Graph

3.2.1 B41_5MHz

Band41_5MHz_QPSK_MCH_2593MHz_RB_25_0_NTNV

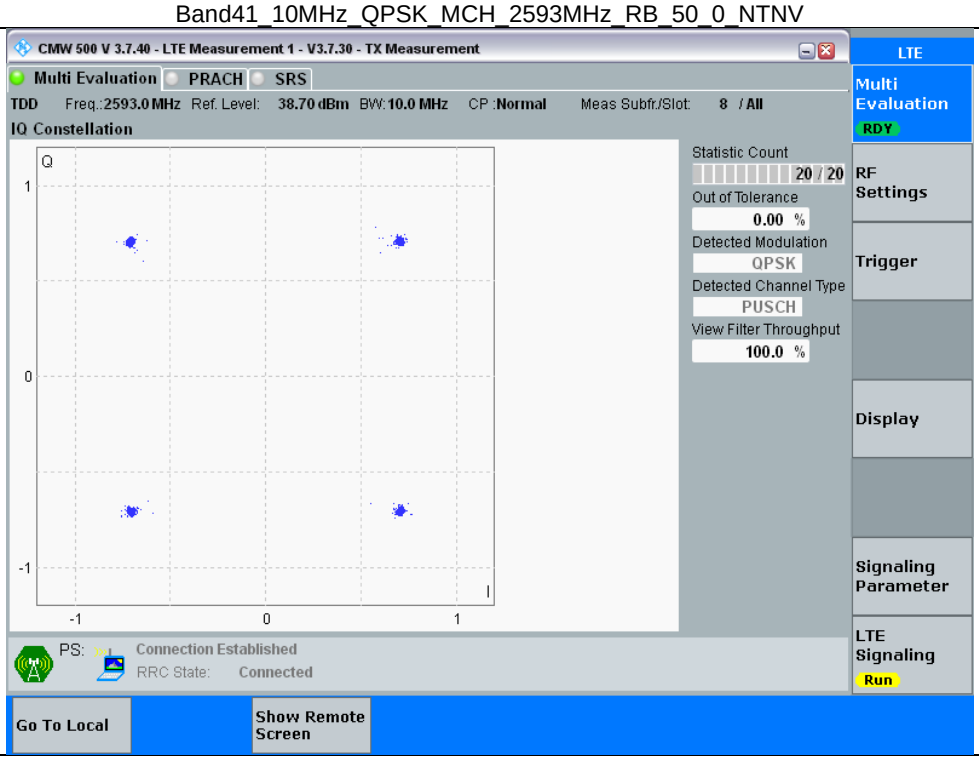


Band41_5MHz_16QAM_MCH_2593MHz_RB_25_0_NTNV

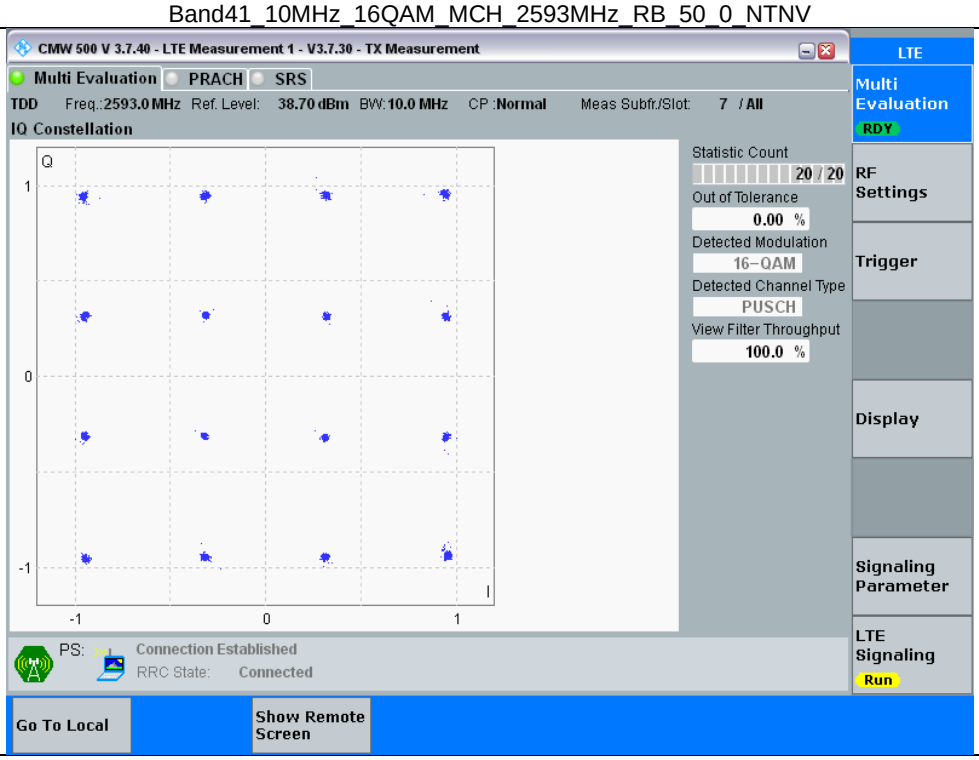


3.2.2 B41_10MHz

Band41_10MHz_QPSK_MCH_2593MHz_RB_50_0_NTNV

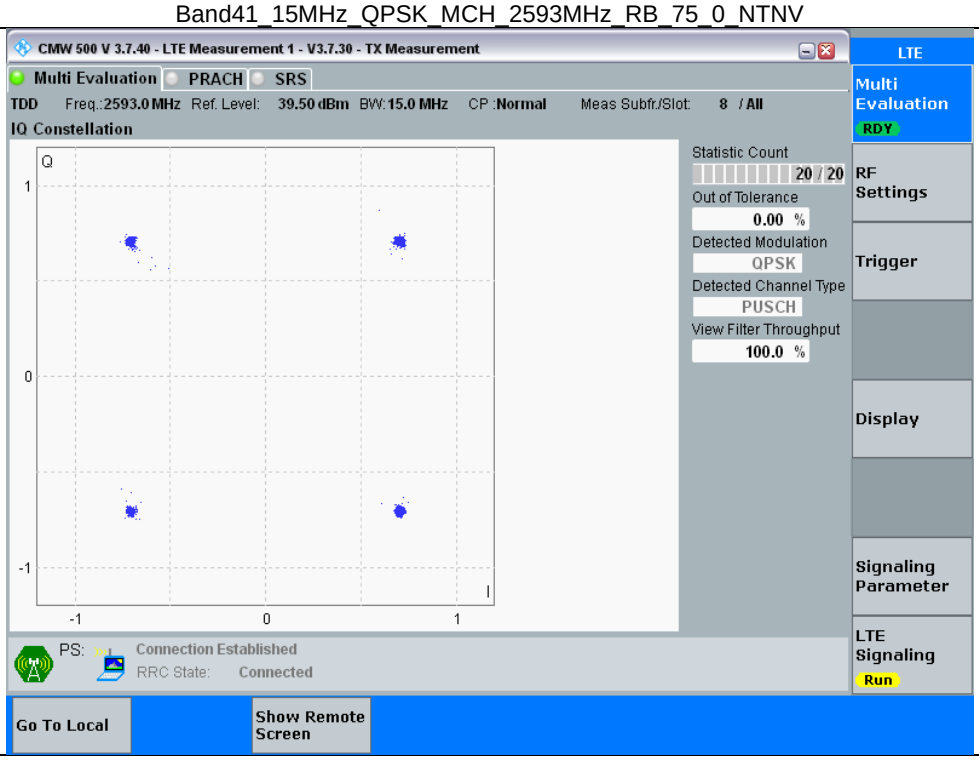


Band41_10MHz_16QAM_MCH_2593MHz_RB_50_0_NTNV

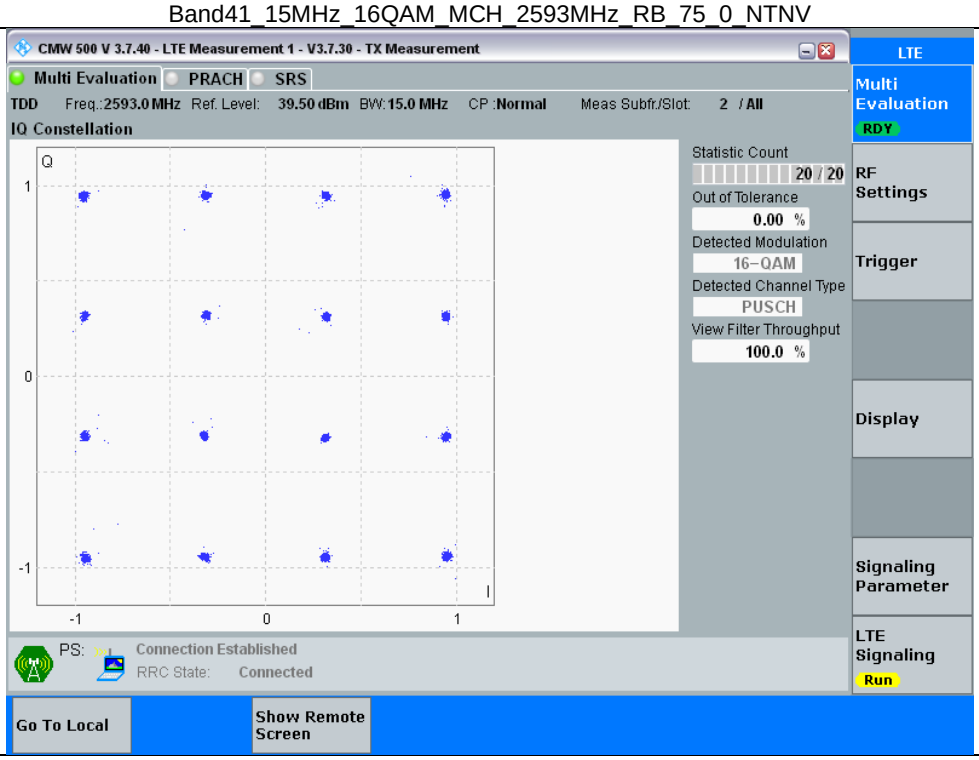


3.2.3 B41_15MHz

Band41_15MHz_QPSK_MCH_2593MHz_RB_75_0_NTNV

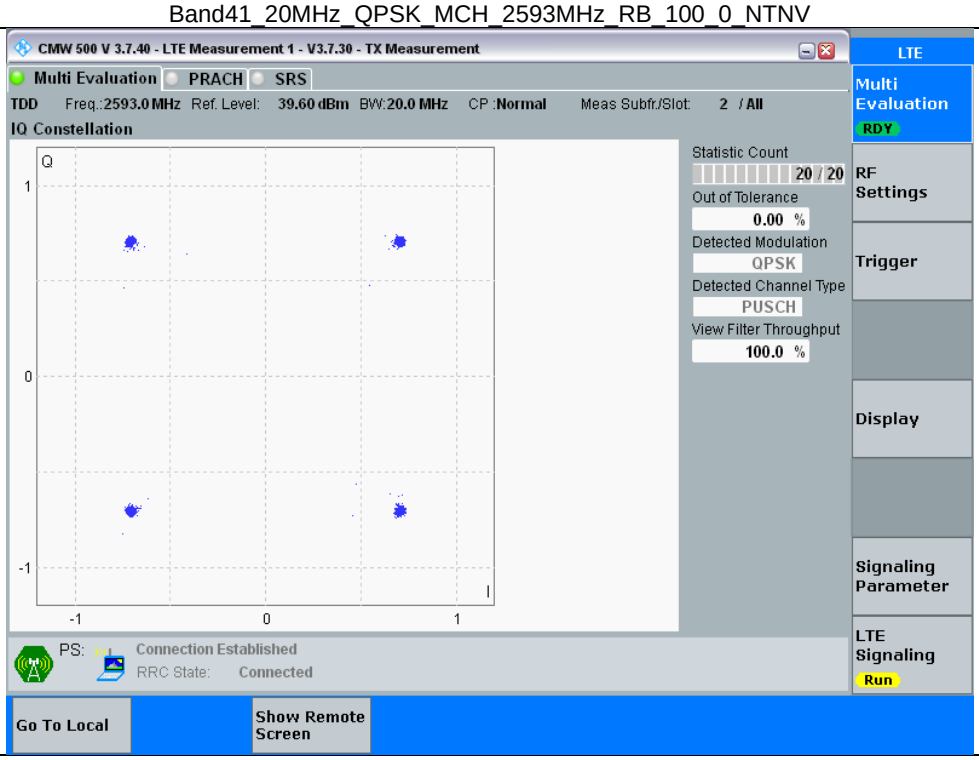


Band41_15MHz_16QAM_MCH_2593MHz_RB_75_0_NTNV

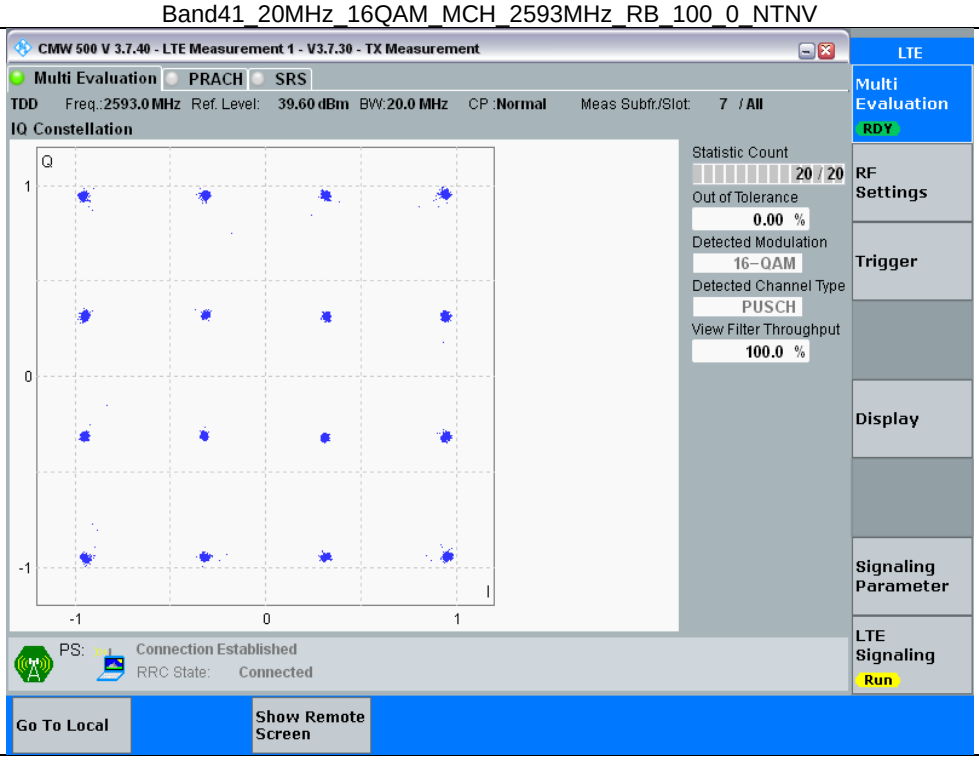


3.2.4 B41_20MHz

Band41_20MHz_QPSK_MCH_2593MHz_RB_100_0_NTNV



Band41_20MHz_16QAM_MCH_2593MHz_RB_100_0_NTNV



4. 99% & 26dB Bandwidth

4.1 Test Result

4.1.1 Band41_OBW

Band: 41 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2498.5	25	0	4.553	/	Pass
		2593	25	0	4.565	/	Pass
		2687.5	25	0	4.551	/	Pass
	16QAM	2498.5	25	0	4.541	/	Pass
		2593	25	0	4.583	/	Pass
		2687.5	25	0	4.534	/	Pass
10	QPSK	2501	50	0	9.085	/	Pass
		2593	50	0	9.079	/	Pass
		2685	50	0	9.078	/	Pass
	16QAM	2501	50	0	9.058	/	Pass
		2593	50	0	9.088	/	Pass
		2685	50	0	9.074	/	Pass
15	QPSK	2503.5	75	0	13.548	/	Pass
		2593	75	0	13.566	/	Pass
		2682.5	75	0	13.619	/	Pass
	16QAM	2503.5	75	0	13.614	/	Pass
		2593	75	0	13.599	/	Pass
		2682.5	75	0	13.645	/	Pass
20	QPSK	2506	100	0	18.139	/	Pass
		2593	100	0	18.067	/	Pass
		2680	100	0	18.117	/	Pass
	16QAM	2506	100	0	18.159	/	Pass
		2593	100	0	18.128	/	Pass
		2680	100	0	18.136	/	Pass

4.1.2 Band41_XDB

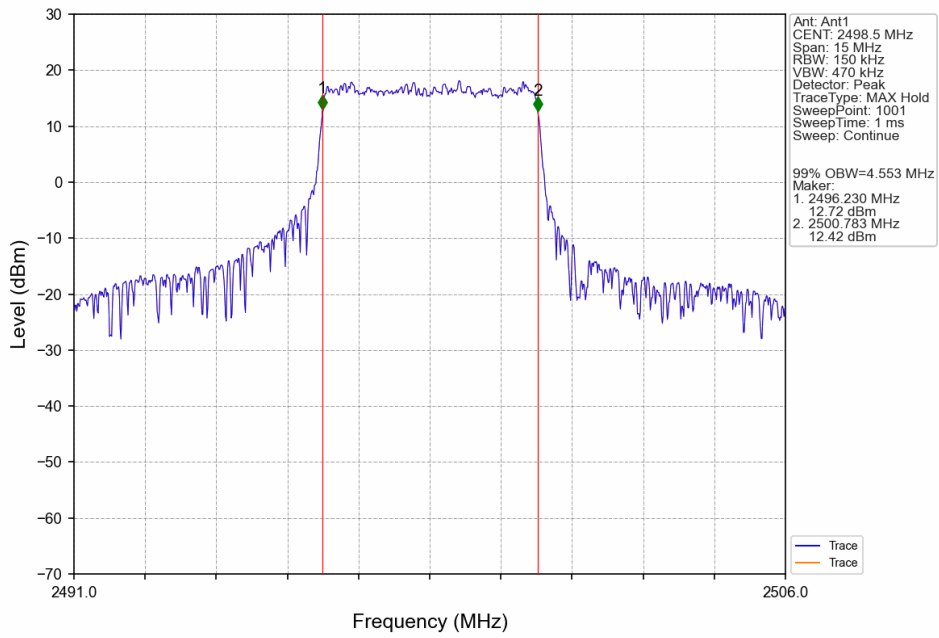
Band: 41 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2498.5	25	0	5.599	/	Pass
		2593	25	0	5.730	/	Pass
		2687.5	25	0	5.388	/	Pass
	16QAM	2498.5	25	0	5.209	/	Pass
		2593	25	0	5.162	/	Pass
		2687.5	25	0	5.334	/	Pass
10	QPSK	2501	50	0	10.853	/	Pass
		2593	50	0	10.740	/	Pass
		2685	50	0	10.782	/	Pass
	16QAM	2501	50	0	10.009	/	Pass
		2593	50	0	11.484	/	Pass
		2685	50	0	11.526	/	Pass
15	QPSK	2503.5	75	0	16.519	/	Pass
		2593	75	0	15.574	/	Pass
		2682.5	75	0	16.011	/	Pass

	16QAM	2503.5	75	0	16.438	/	Pass
		2593	75	0	15.397	/	Pass
		2682.5	75	0	15.819	/	Pass
20	QPSK	2506	100	0	20.446	/	Pass
		2593	100	0	20.502	/	Pass
		2680	100	0	20.021	/	Pass
	16QAM	2506	100	0	20.533	/	Pass
		2593	100	0	21.990	/	Pass
		2680	100	0	21.673	/	Pass

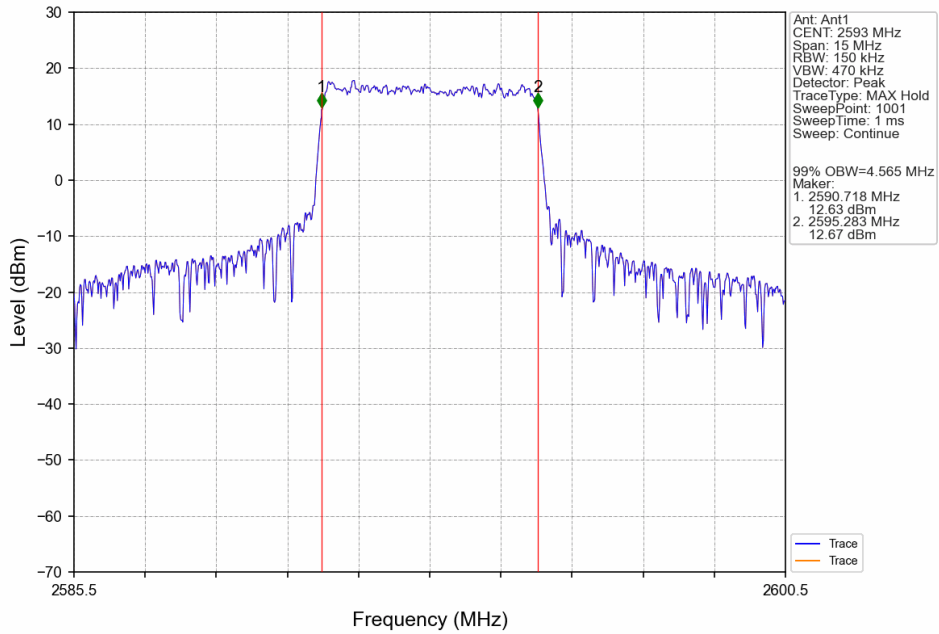
4.2 Test Graph

4.2.1 Band41_OBW

Band41_5MHz_QPSK_LCH_2498.5MHz_RB_25_0_NTNV



Band41_5MHz_QPSK_MCH_2593MHz_RB_25_0_NTNV



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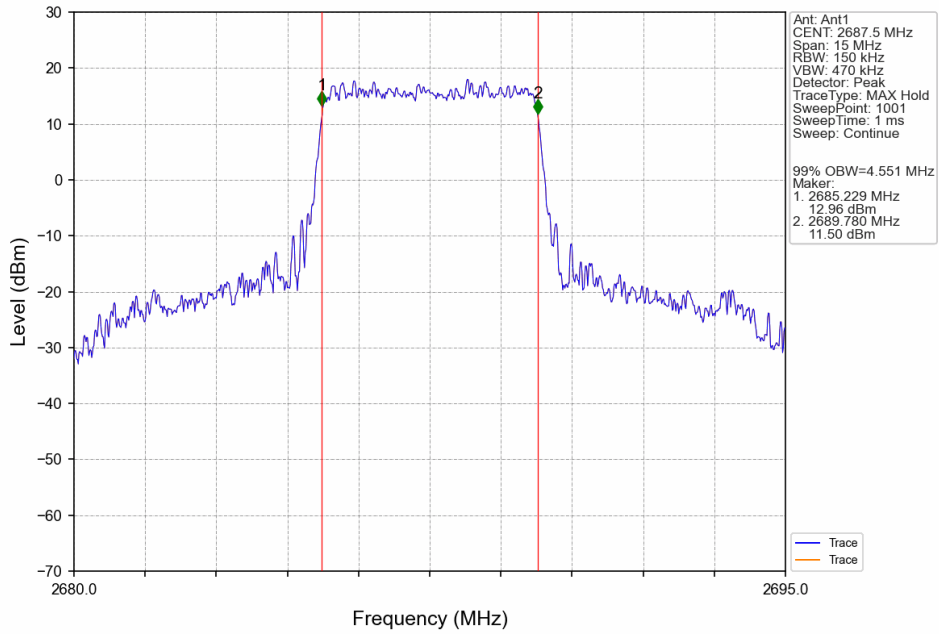

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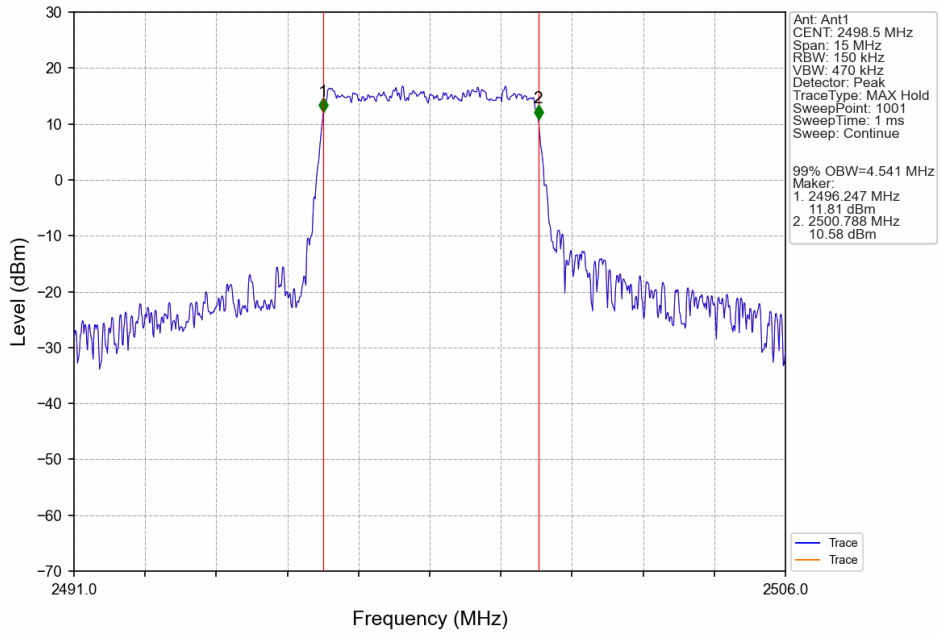

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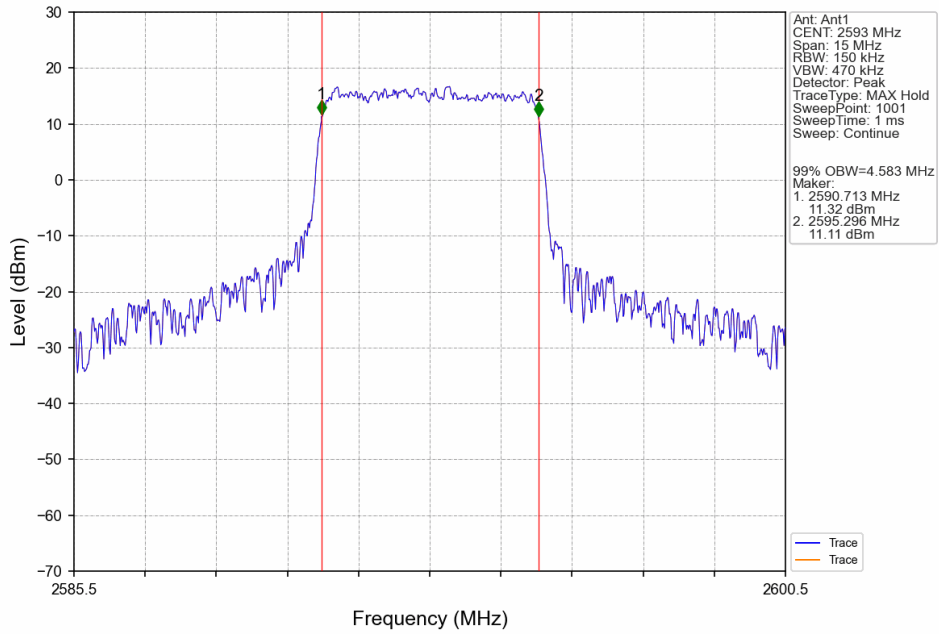

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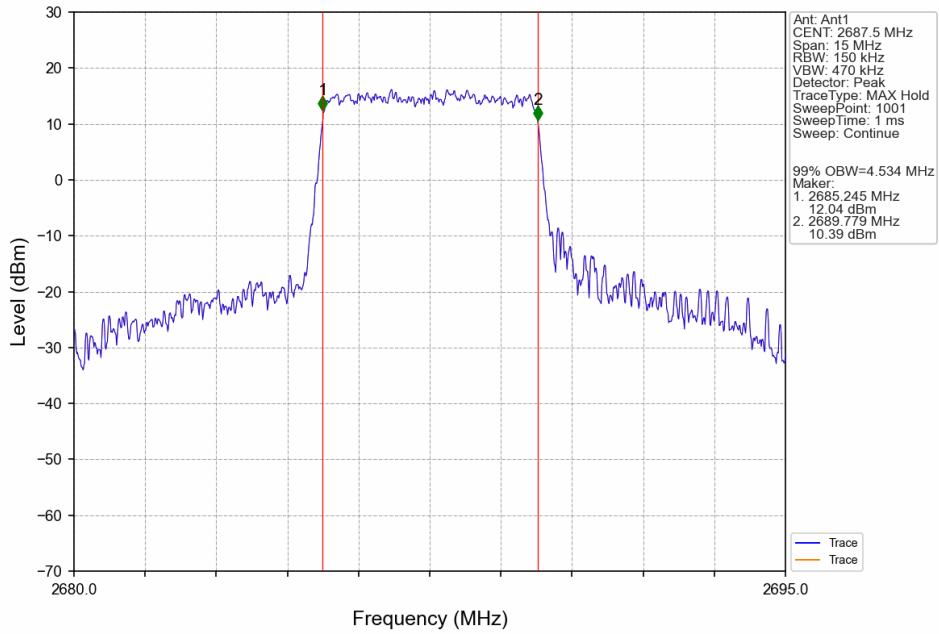
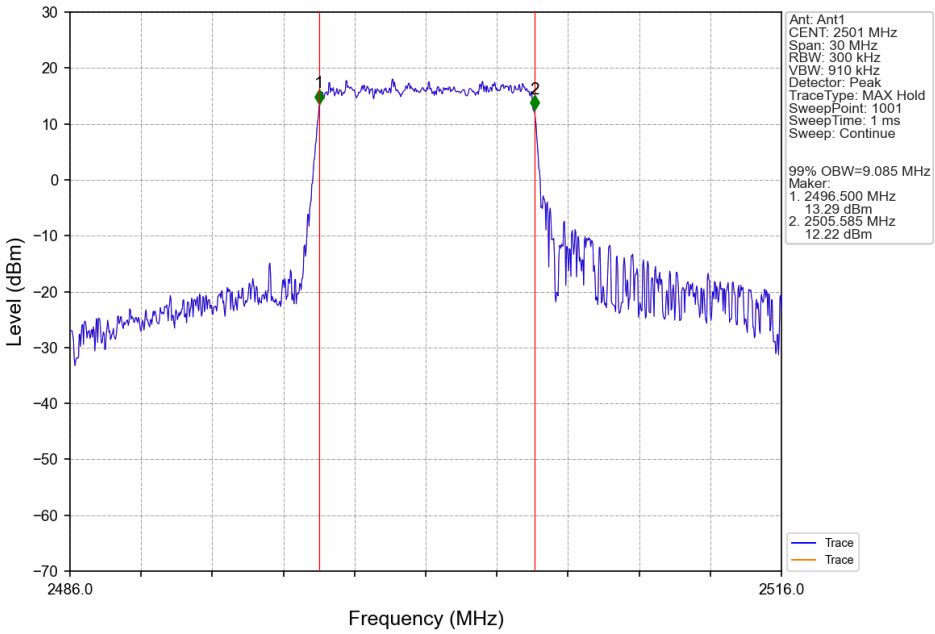
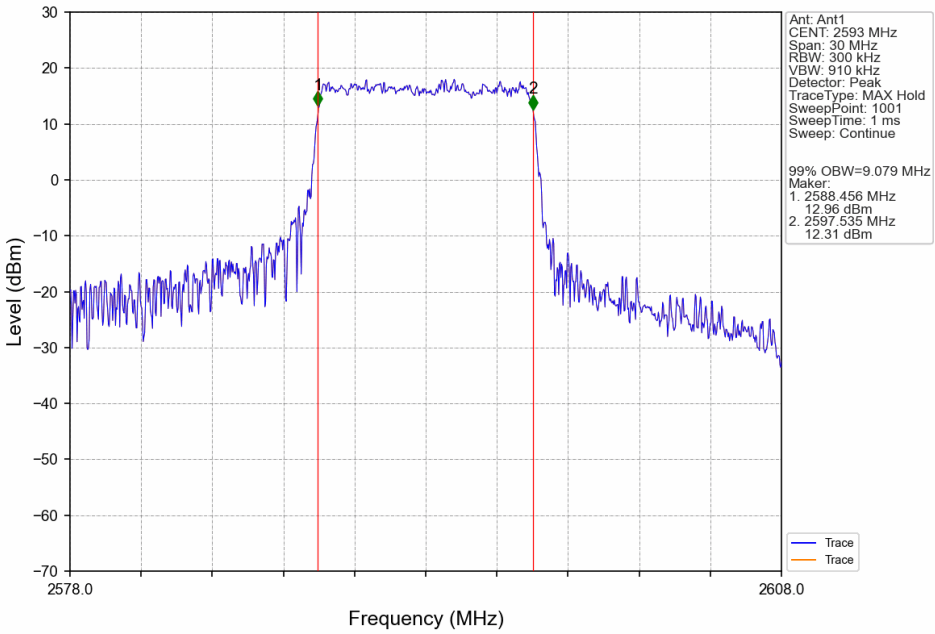


Band41_10MHz_QPSK_LCH_2501MHz_RB_50_0_NTNV



Band41_10MHz_QPSK_MCH_2593MHz_RB_50_0_NTNV



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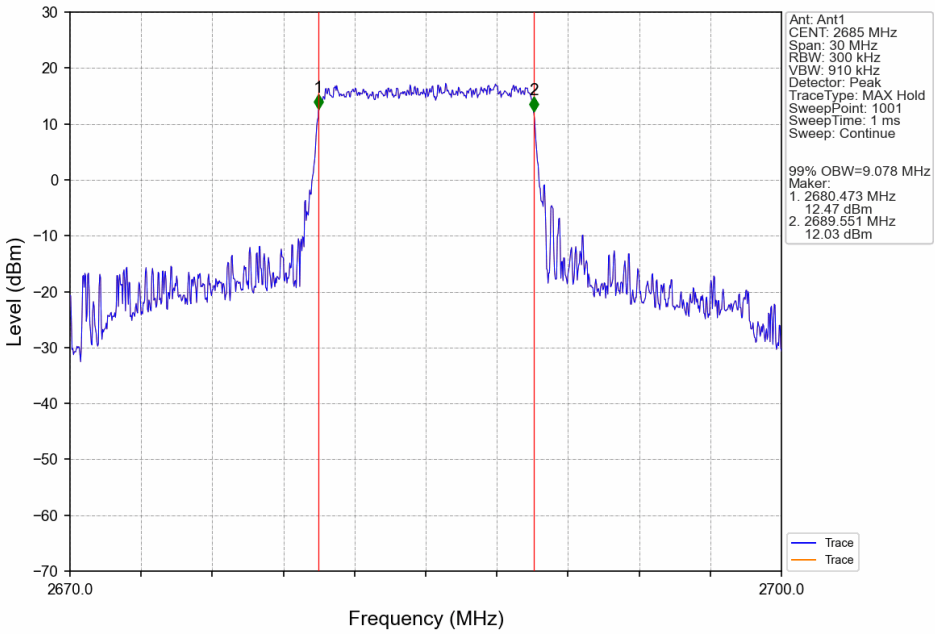
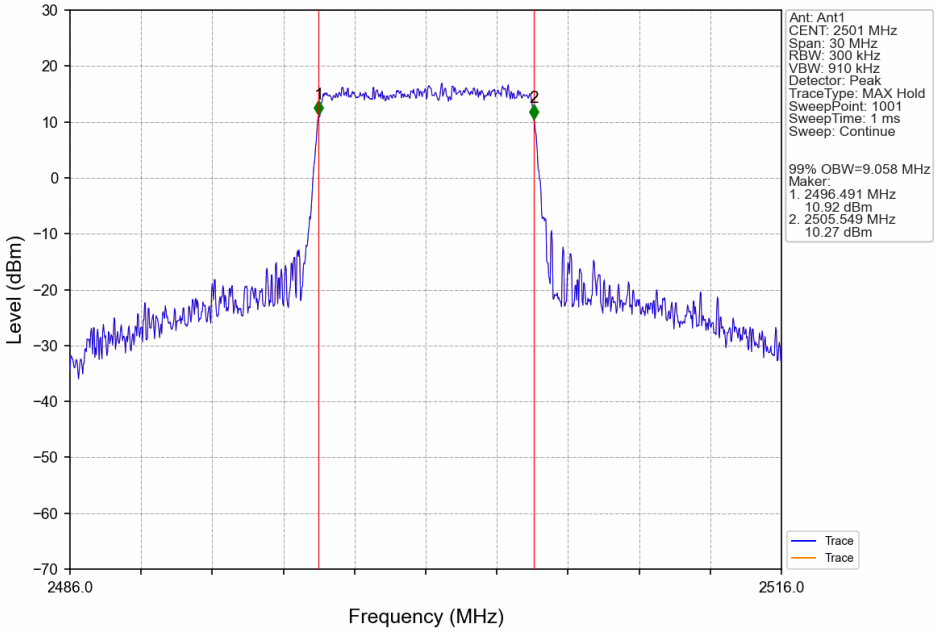
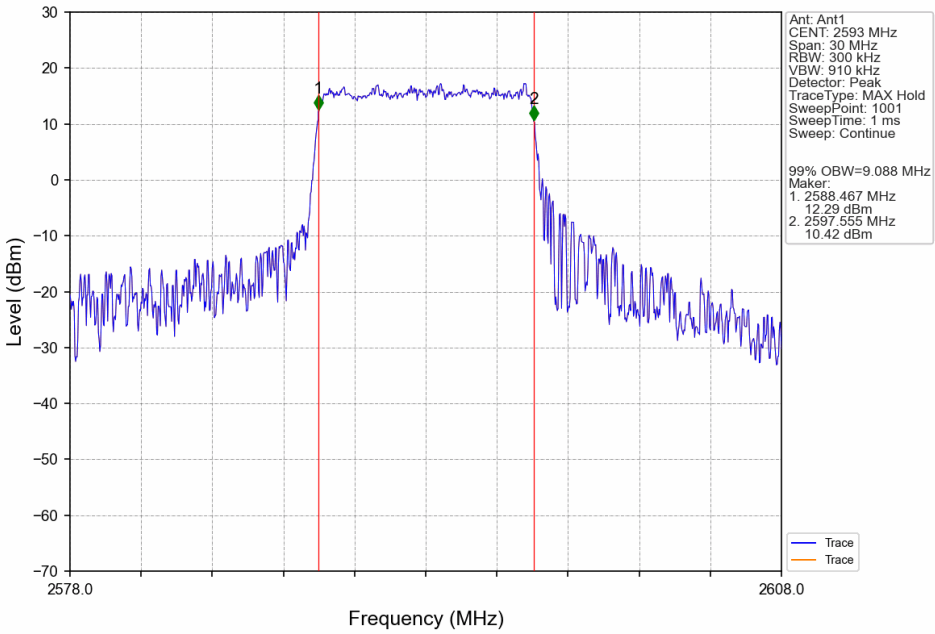


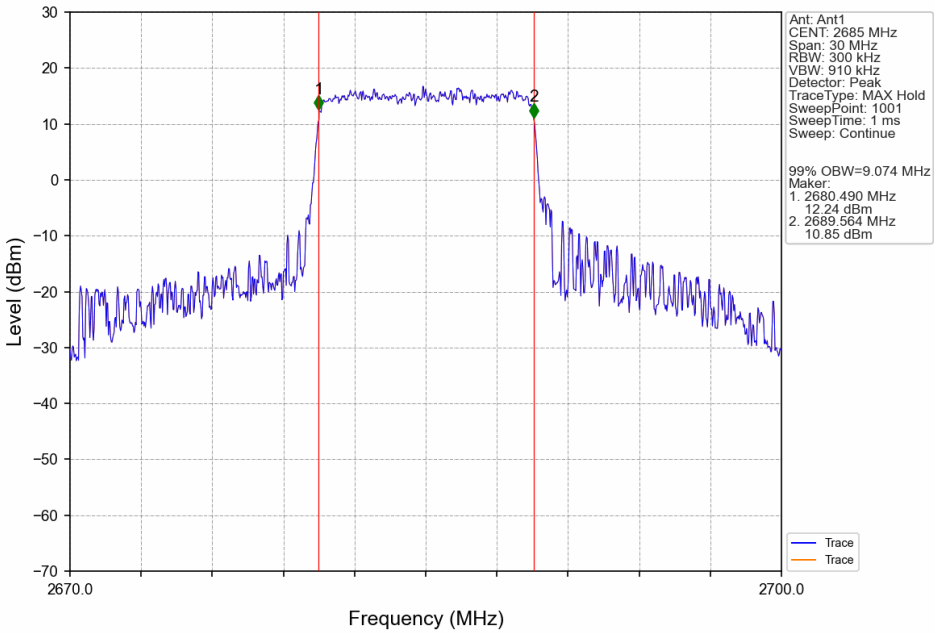
Band41_10MHz_16QAM_LCH_2501MHz_RB_50_0_NTNV



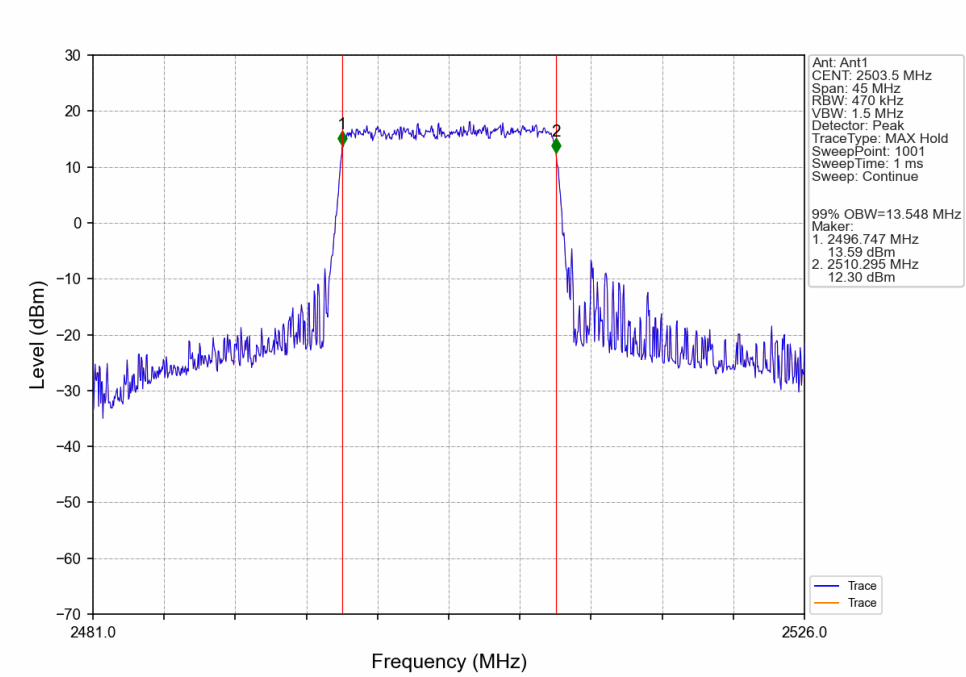
Band41_10MHz_16QAM_MCH_2593MHz_RB_50_0_NTNV



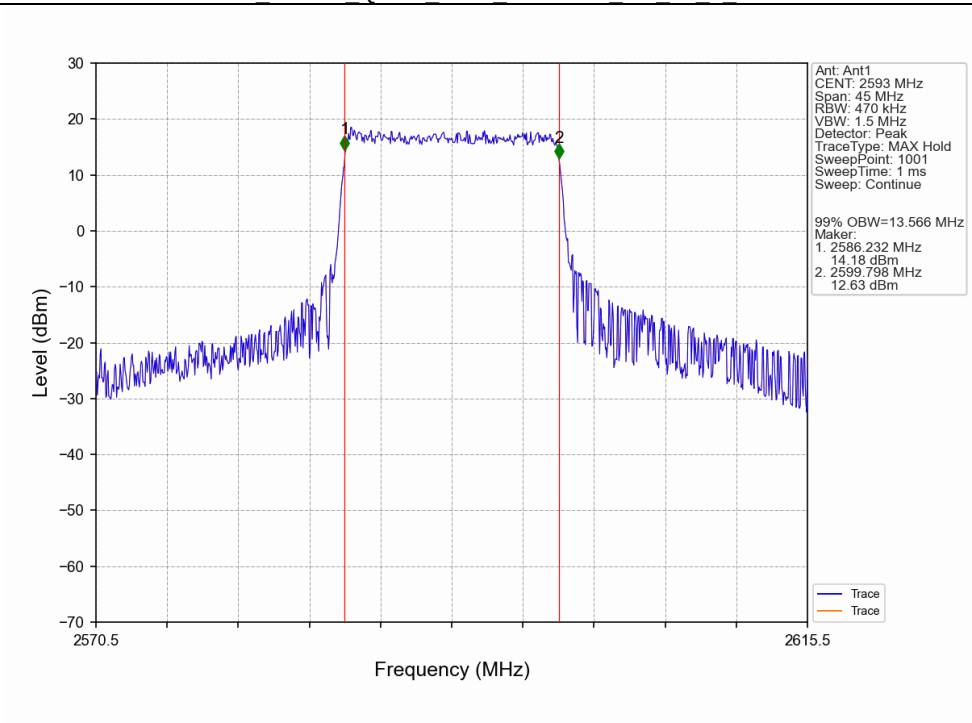
Band41_10MHz_16QAM_HCH_2685MHz_RB_50_0_NTNV



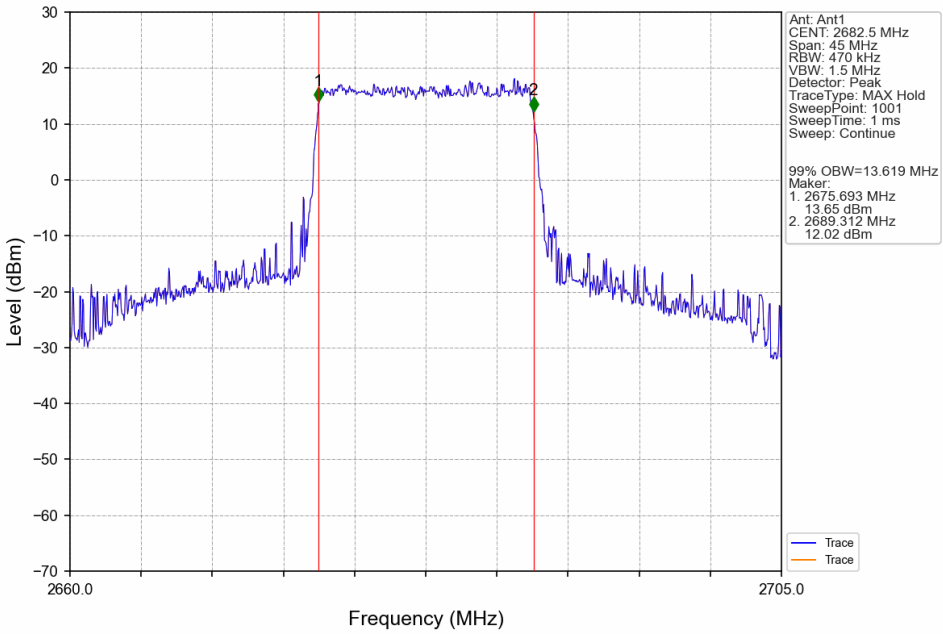
Band41_15MHz_QPSK_LCH_2503.5MHz_RB_75_0_NTNV



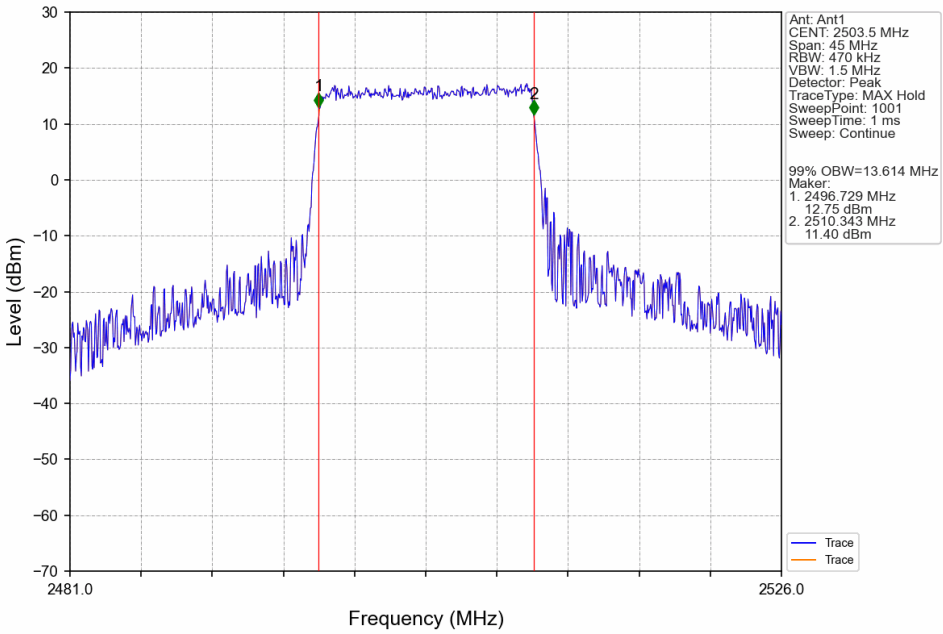
Band41_15MHz_QPSK_MCH_2593MHz_RB_75_0_NTNV



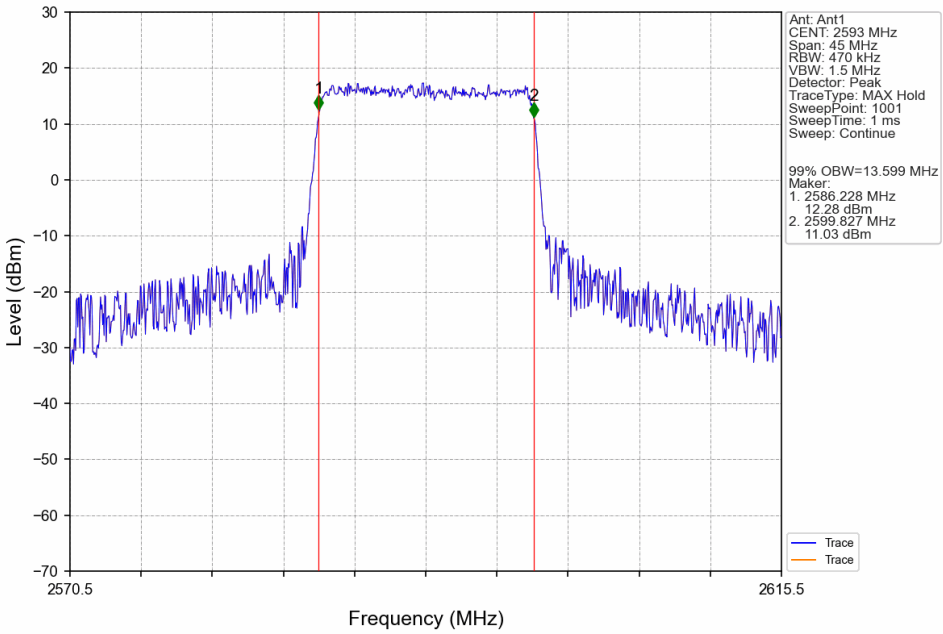
Band41_15MHz_QPSK_HCH_2682.5MHz_RB_75_0_NTNV



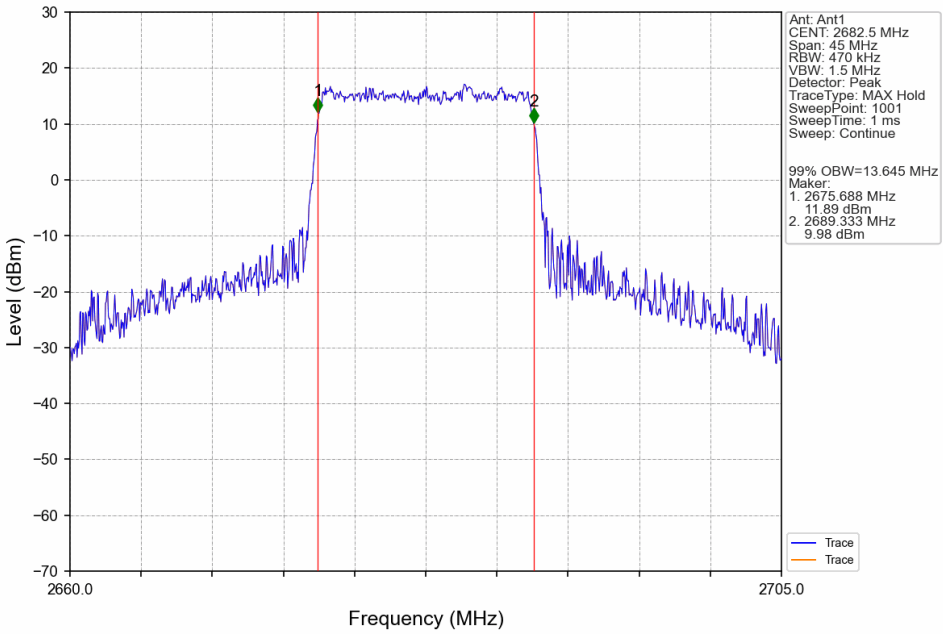
Band41_15MHz_16QAM_LCH_2503.5MHz_RB_75_0_NTNV



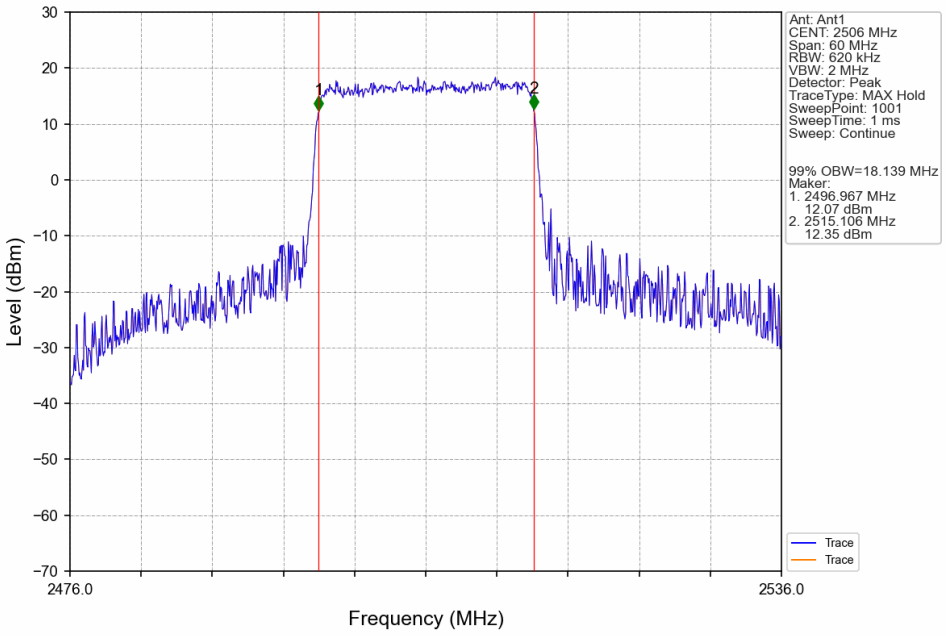
Band41_15MHz_16QAM_MCH_2593MHz_RB_75_0_NTNV



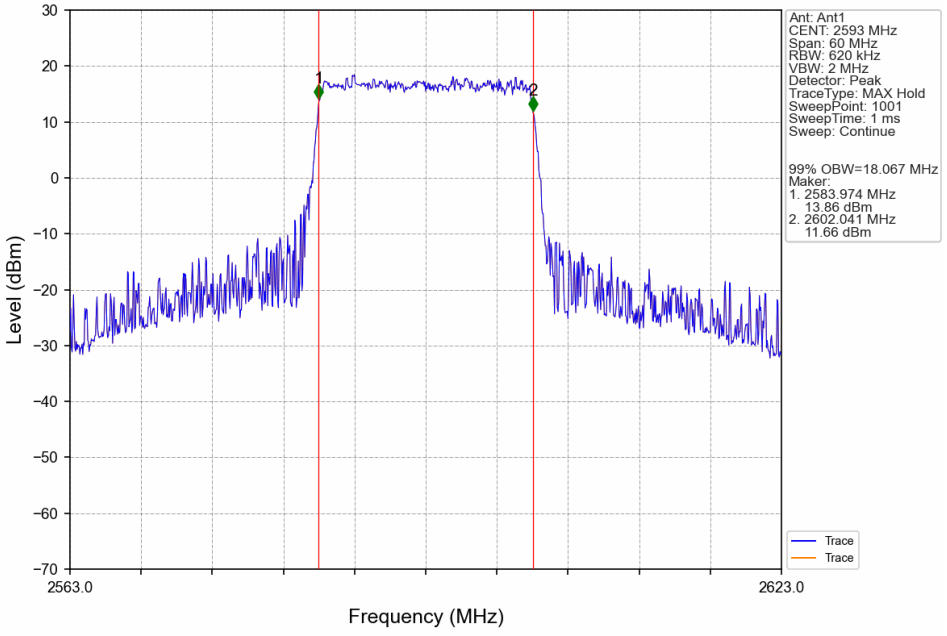
Band41_15MHz_16QAM_HCH_2682.5MHz_RB_75_0_NTNV



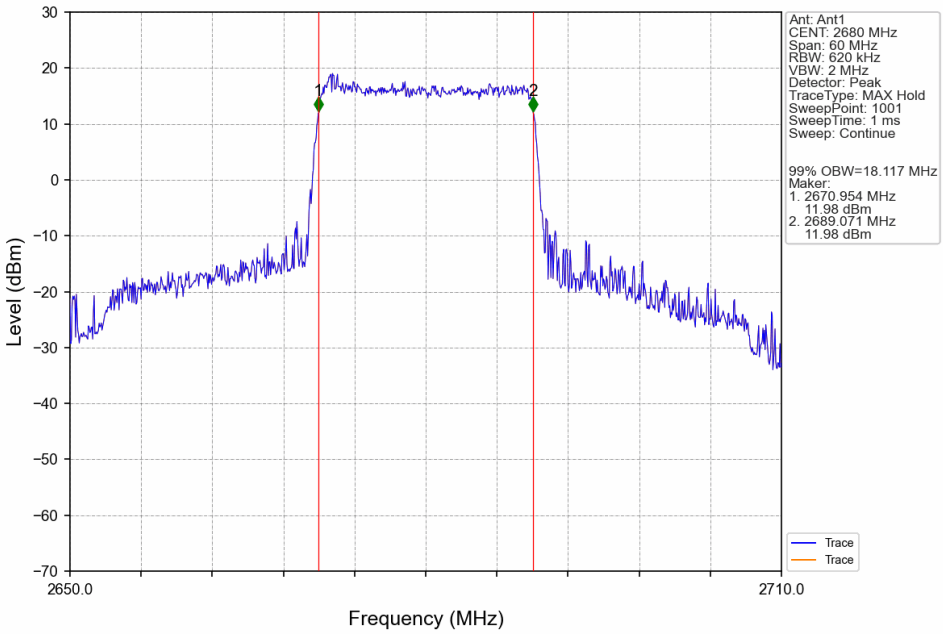
Band41_20MHz_QPSK_LCH_2506MHz_RB_100_0_NTNV



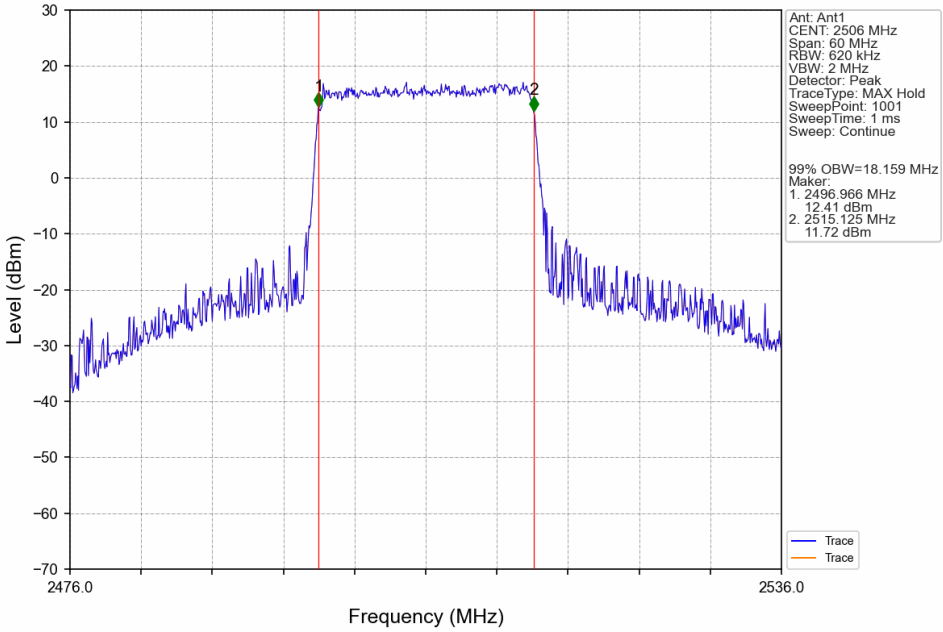
Band41_20MHz_QPSK_MCH_2593MHz_RB_100_0_NTNV



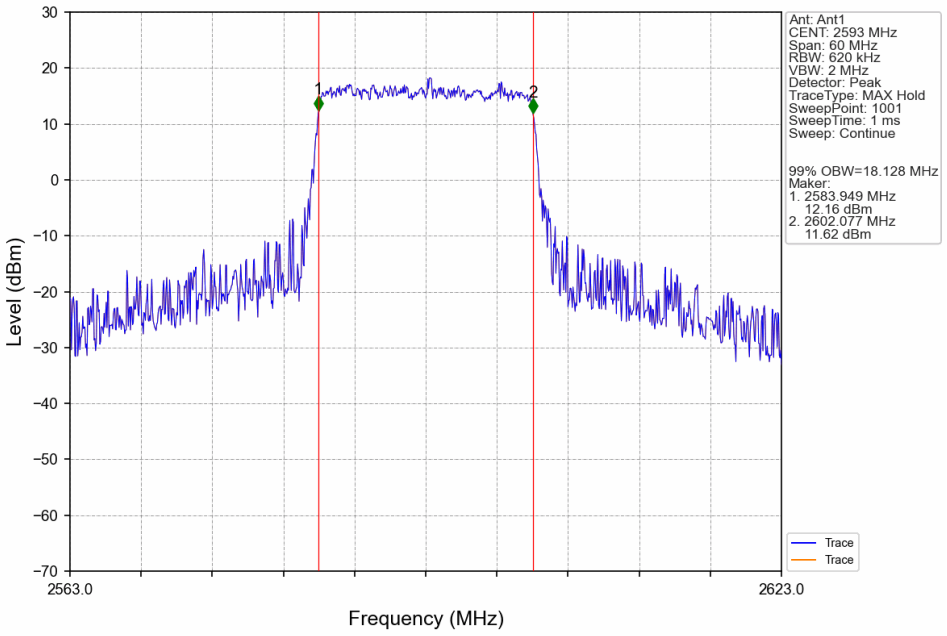
Band41_20MHz_QPSK_HCH_2680MHz_RB_100_0_NTNV



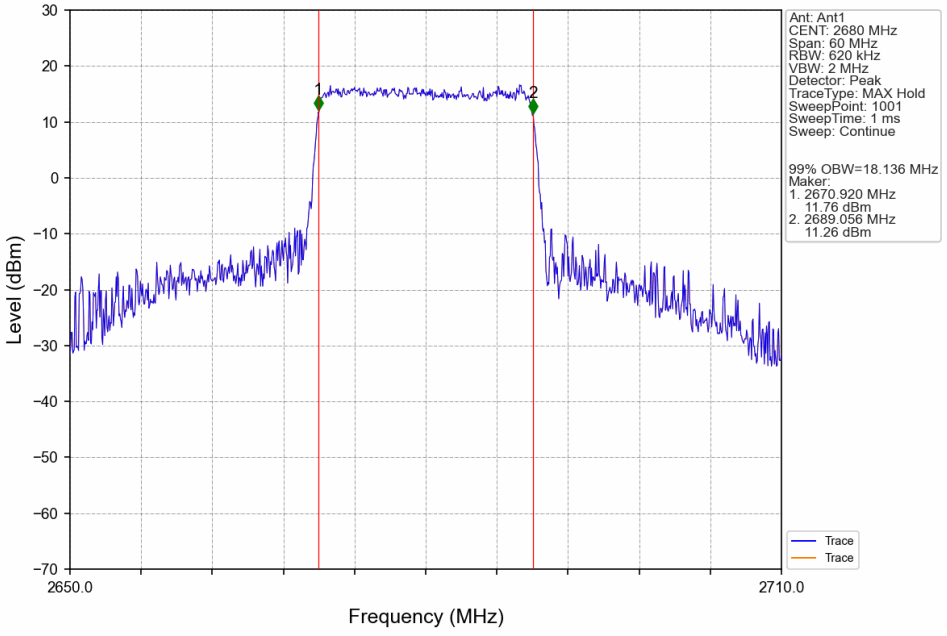
Band41_20MHz_16QAM_LCH_2506MHz_RB_100_0_NTNV



Band41_20MHz_16QAM_MCH_2593MHz_RB_100_0_NTNV

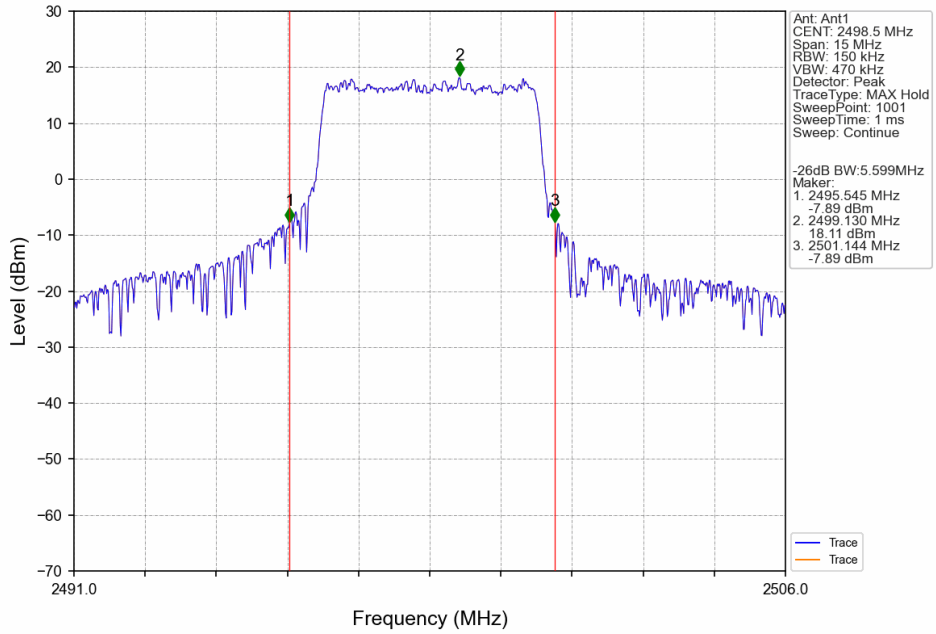


Band41_20MHz_16QAM_HCH_2680MHz_RB_100_0_NTNV

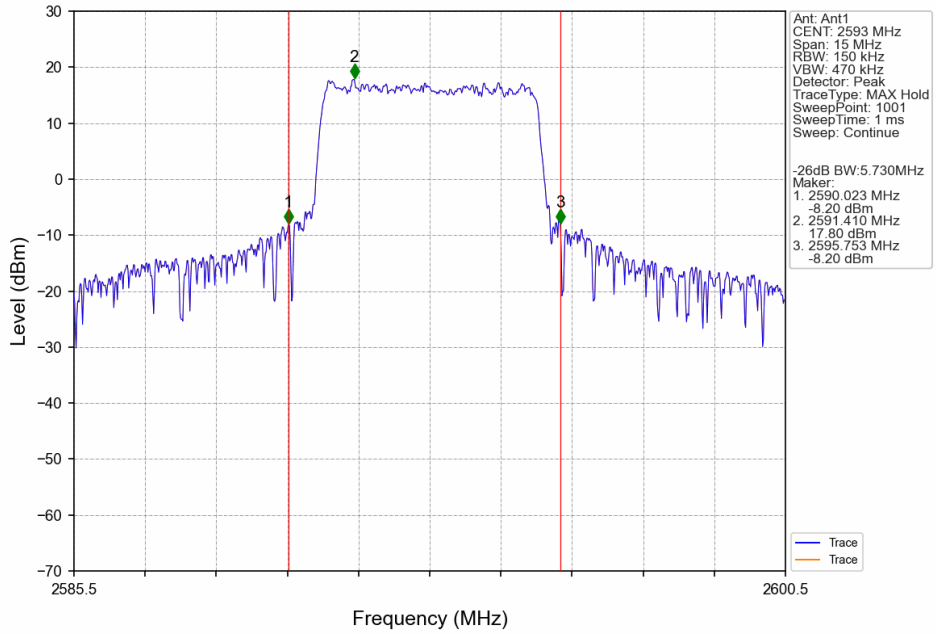


4.2.2 Band41_XDB

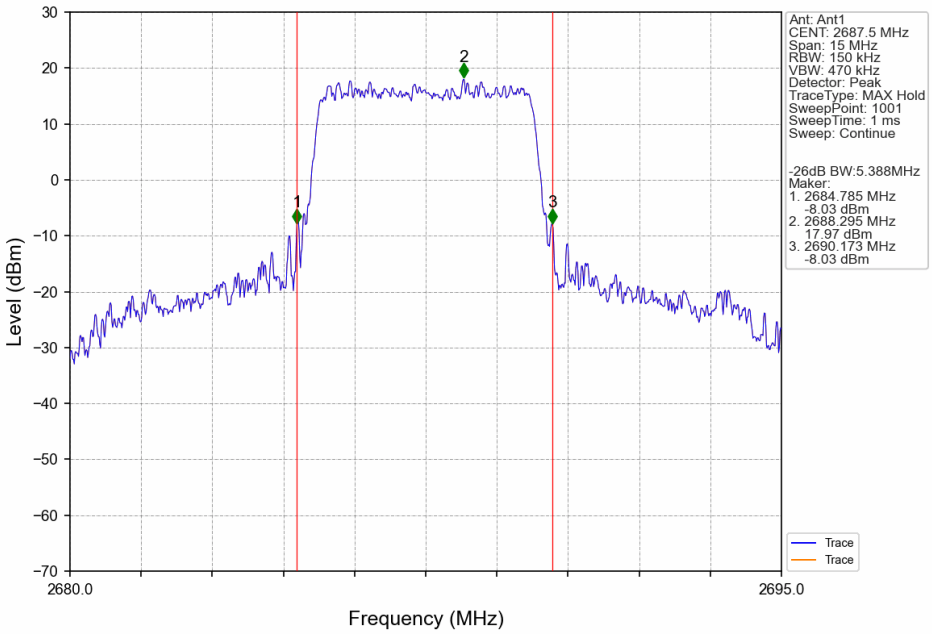
Band41_5MHz_QPSK_LCH_2498.5MHz_RB_25_0_NTNV



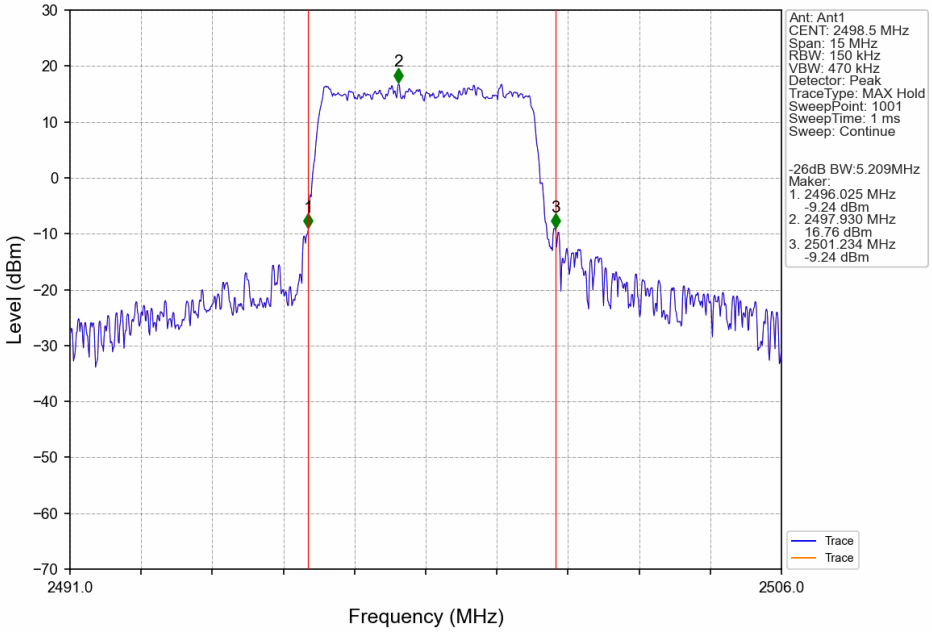
Band41_5MHz_QPSK_MCH_2593MHz_RB_25_0_NTNV



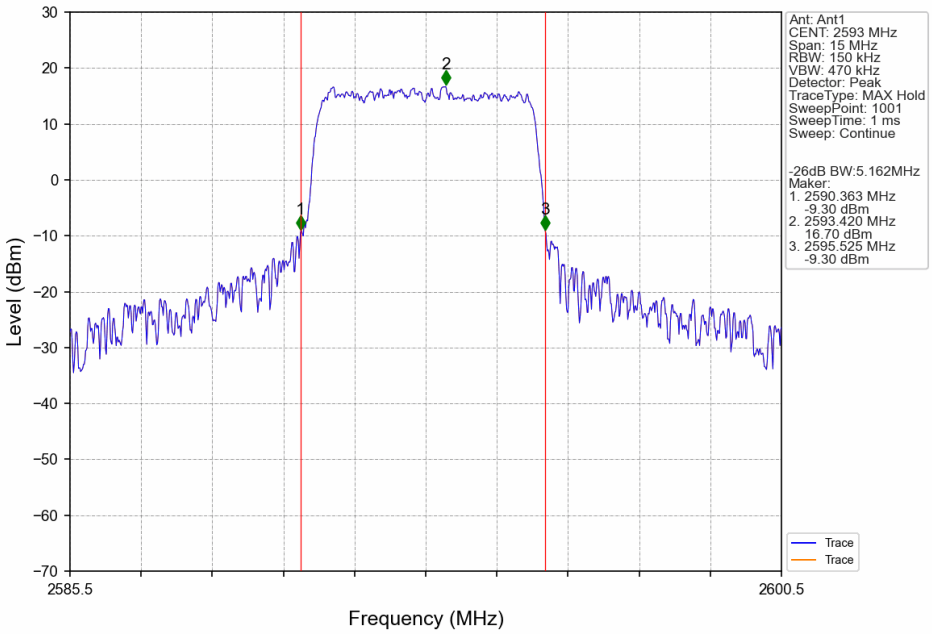
Band41_5MHz_QPSK_HCH_2687.5MHz_RB_25_0_NTNV



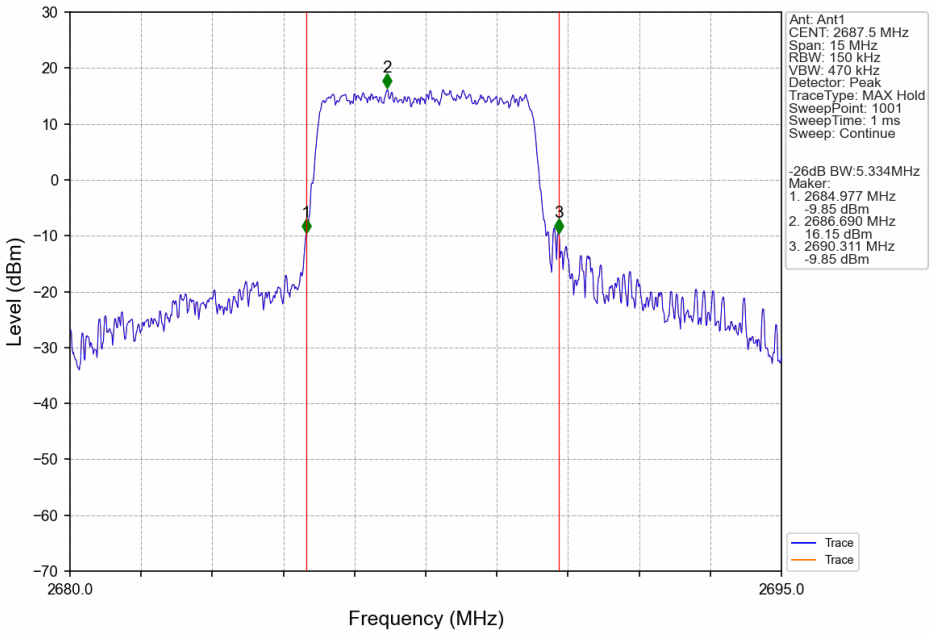
Band41_5MHz_16QAM_LCH_2498.5MHz_RB_25_0_NTNV



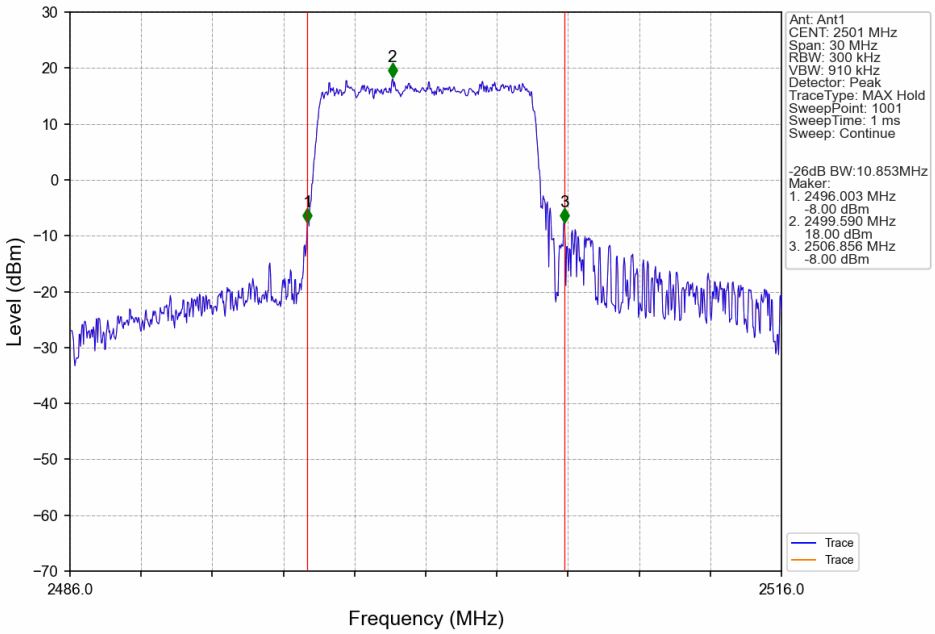
Band41_5MHz_16QAM_MCH_2593MHz_RB_25_0_NTNV



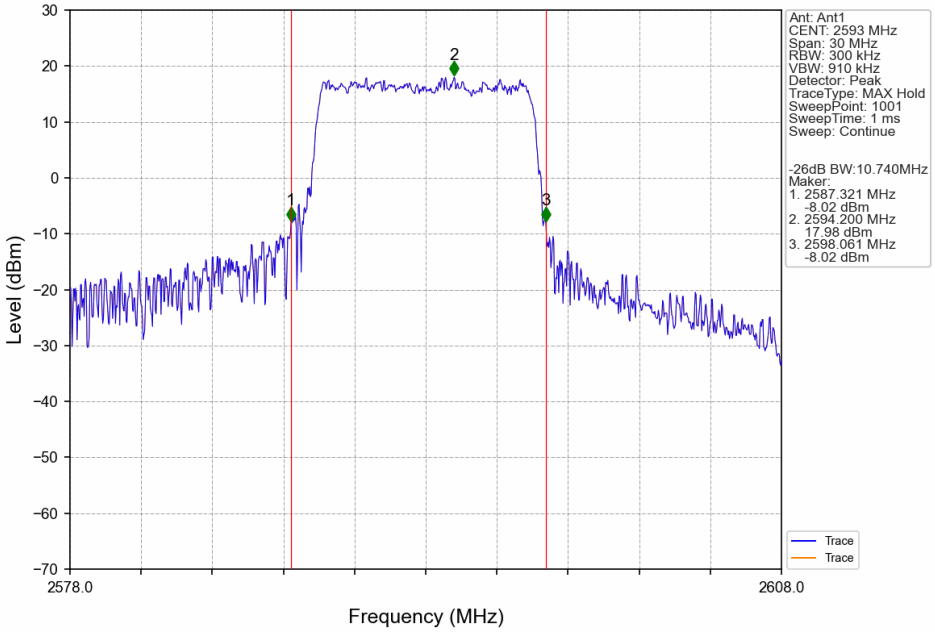
Band41_5MHz_16QAM_HCH_2687.5MHz_RB_25_0_NTNV



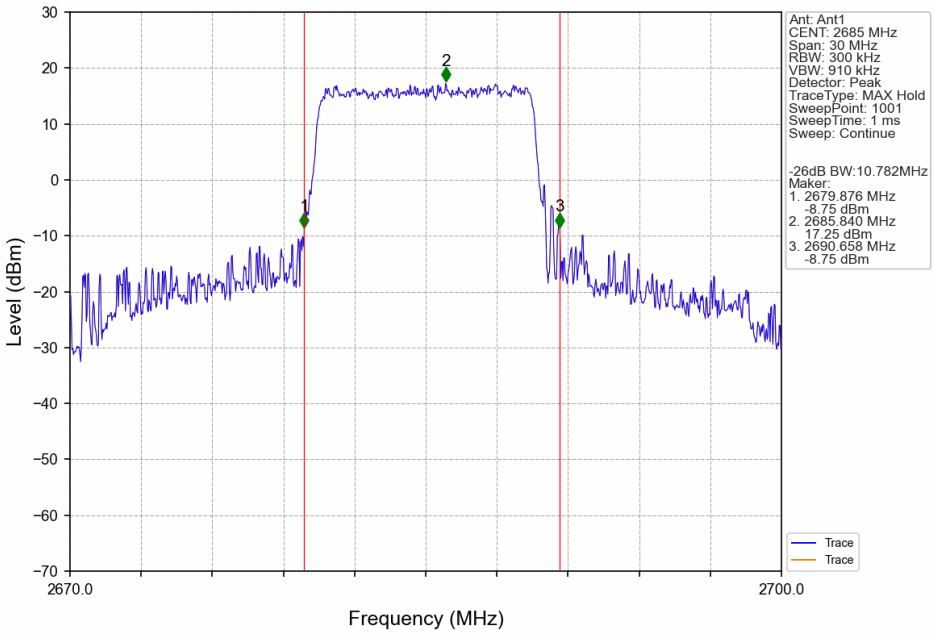
Band41_10MHz_QPSK_LCH_2501MHz_RB_50_0_NTNV



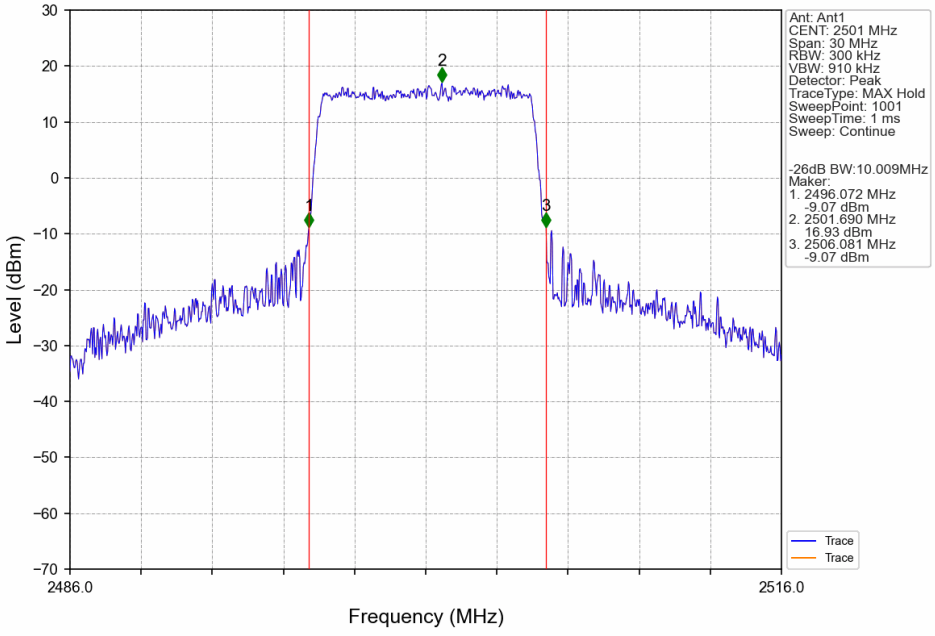
Band41_10MHz_QPSK_MCH_2593MHz_RB_50_0_NTNV



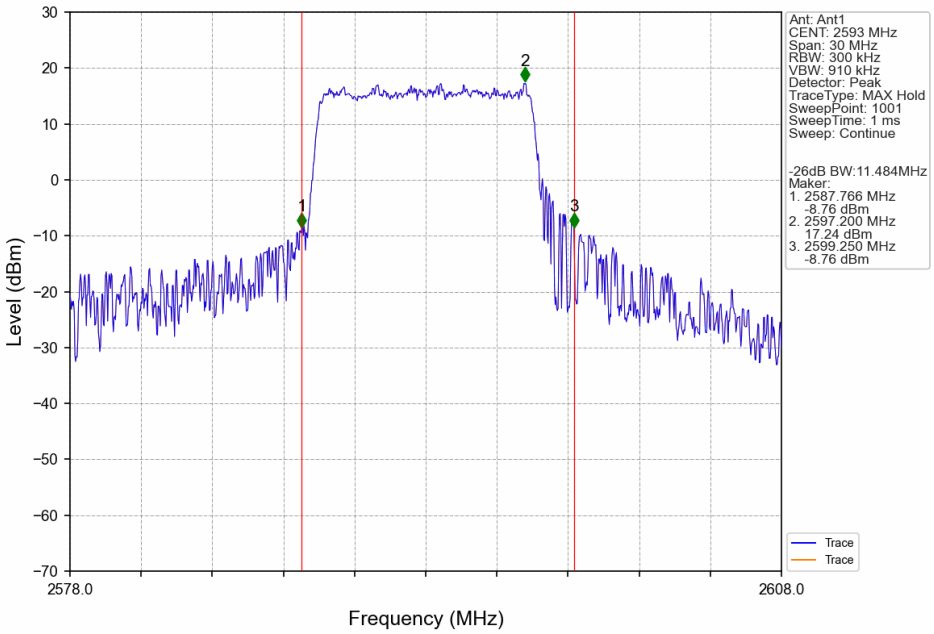
Band41_10MHz_QPSK_HCH_2685MHz_RB_50_0_NTNV



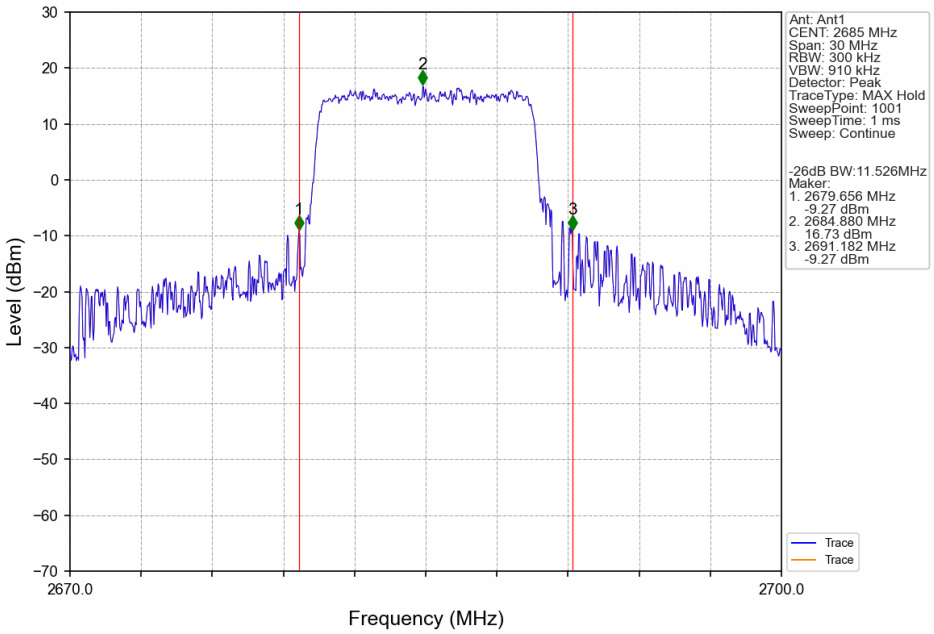
Band41_10MHz_16QAM_LCH_2501MHz_RB_50_0_NTNV



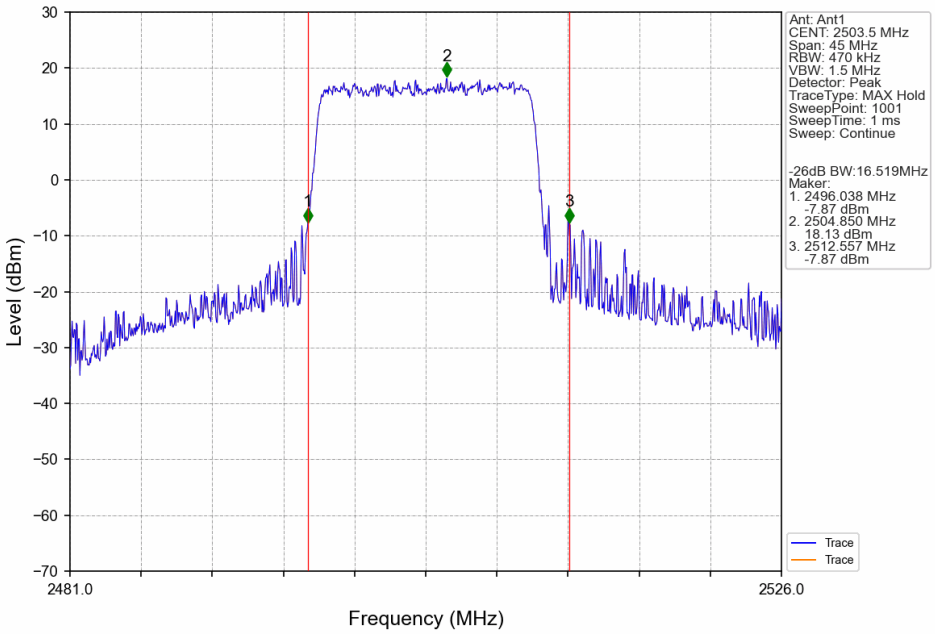
Band41_10MHz_16QAM_MCH_2593MHz_RB_50_0_NTNV



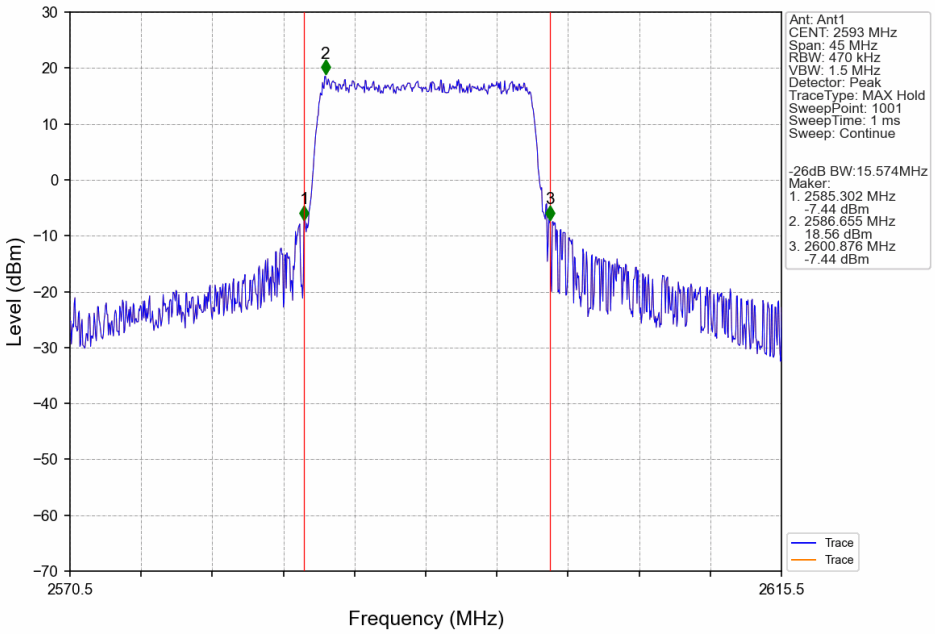
Band41_10MHz_16QAM_HCH_2685MHz_RB_50_0_NTNV



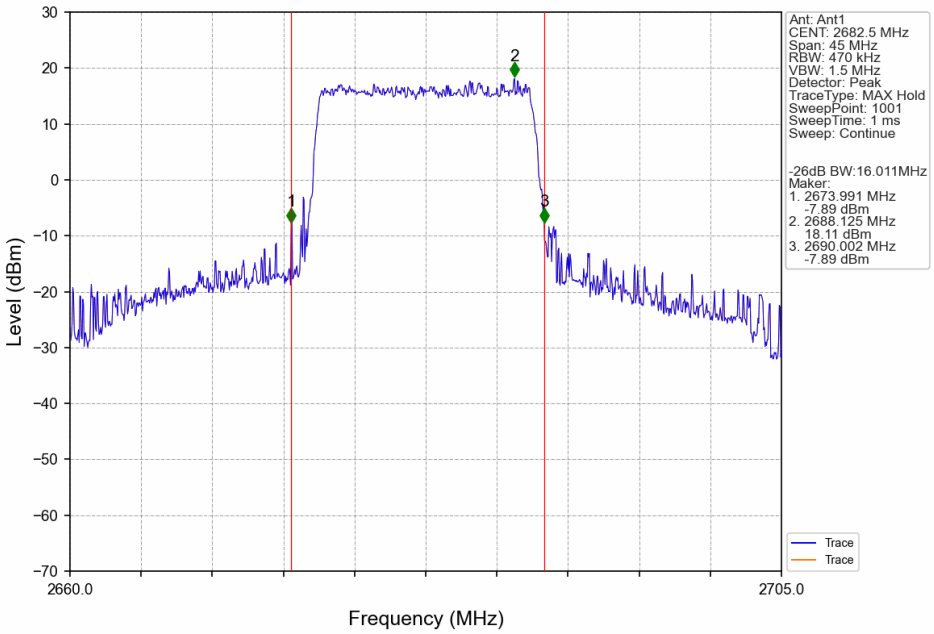
Band41_15MHz_QPSK_LCH_2503.5MHz_RB_75_0_NTNV



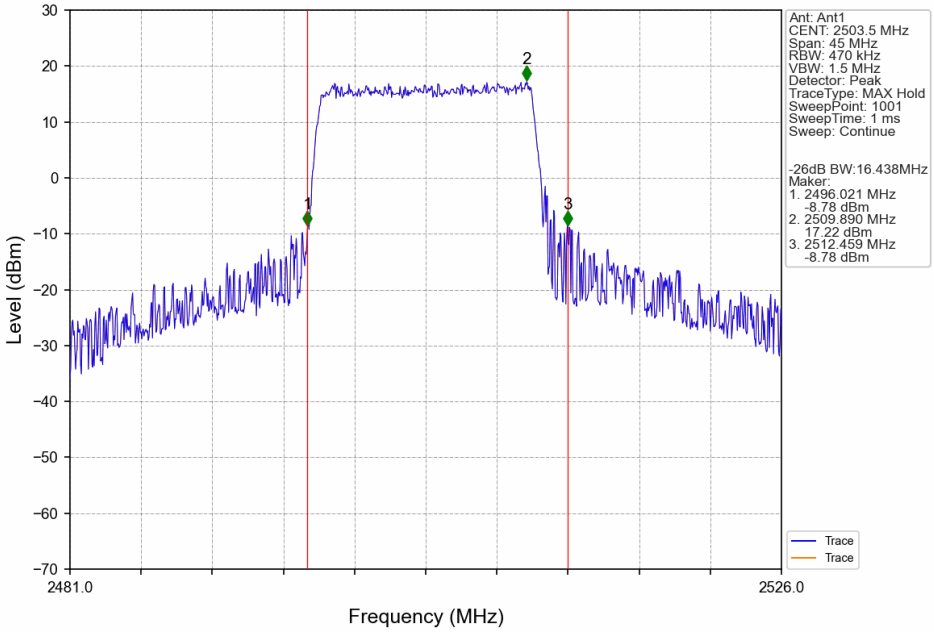
Band41_15MHz_QPSK_MCH_2593MHz_RB_75_0_NTNV



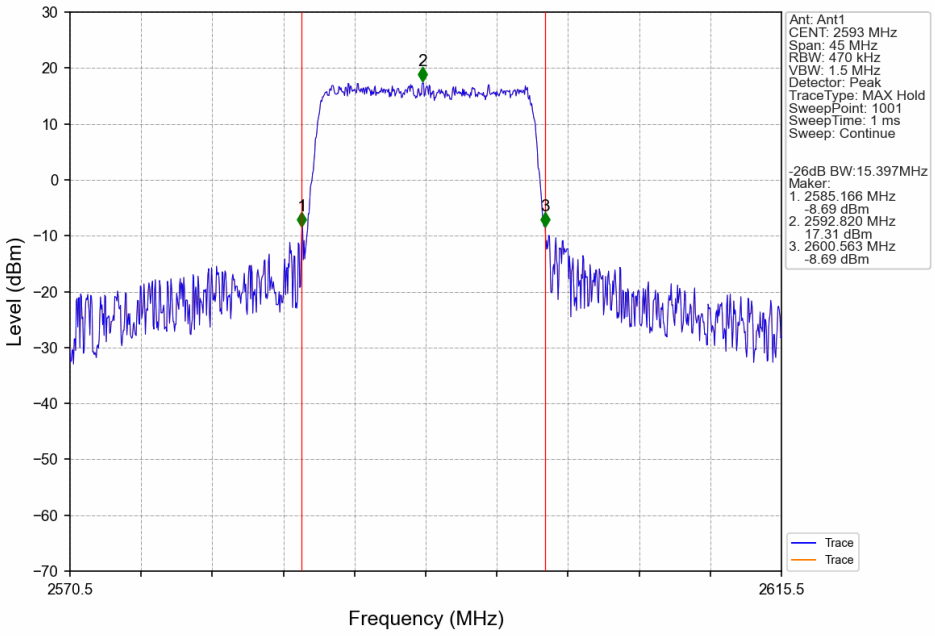
Band41_15MHz_QPSK_HCH_2682.5MHz_RB_75_0_NTNV



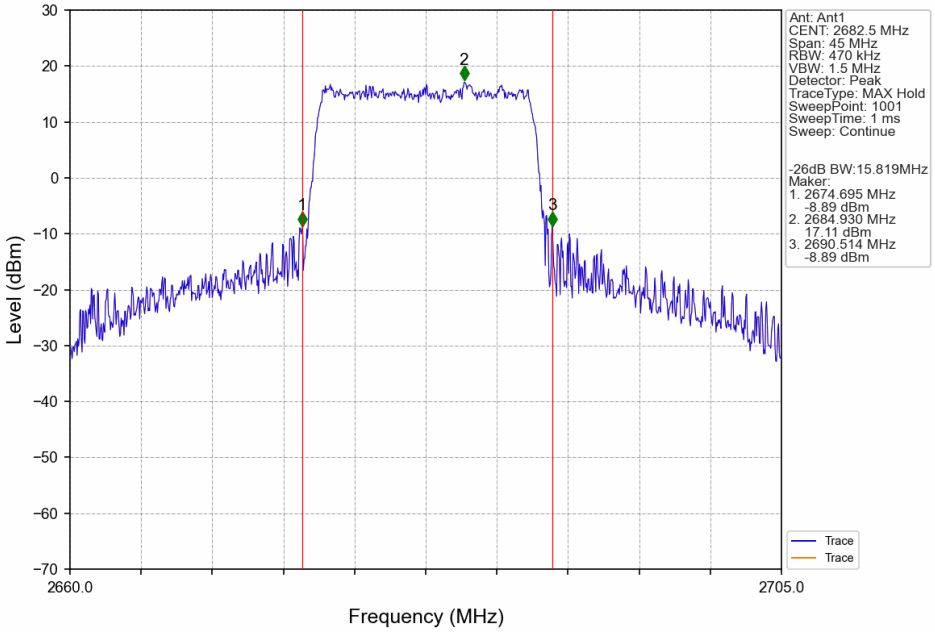
Band41_15MHz_16QAM_LCH_2503.5MHz_RB_75_0_NTNV



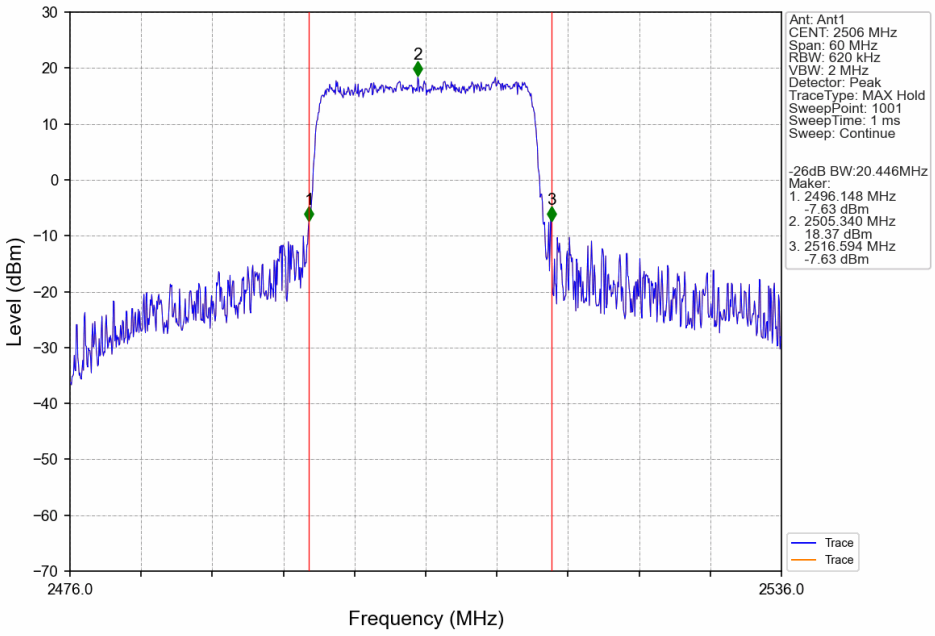
Band41_15MHz_16QAM_MCH_2593MHz_RB_75_0_NTNV



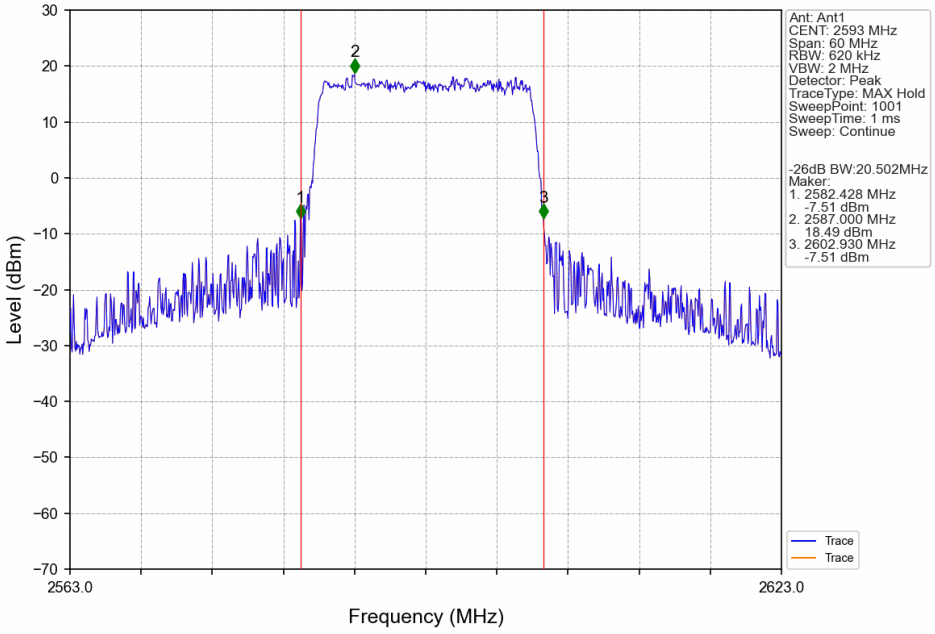
Band41_15MHz_16QAM_HCH_2682.5MHz_RB_75_0_NTNV



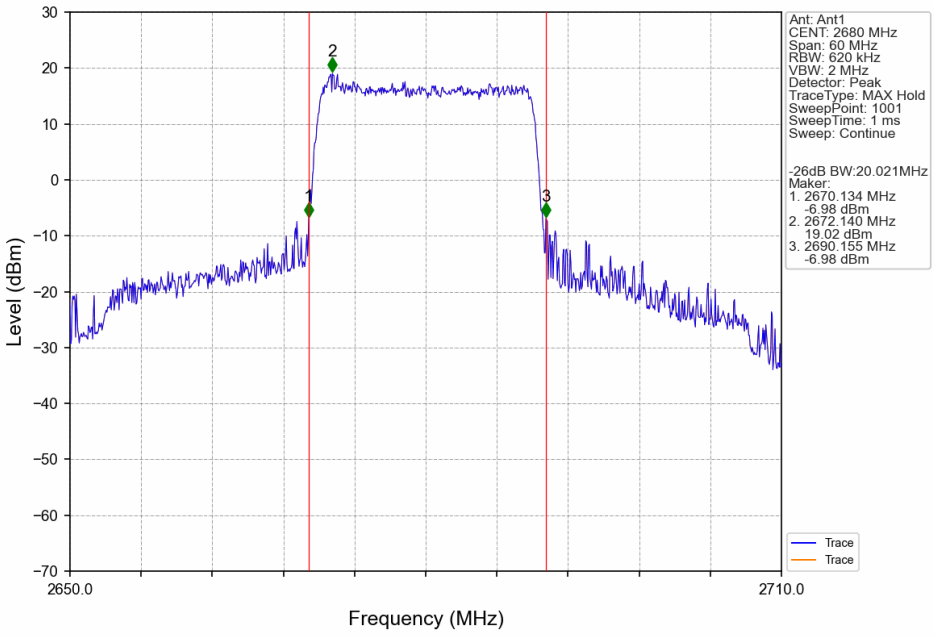
Band41_20MHz_QPSK_LCH_2506MHz_RB_100_0_NTNV



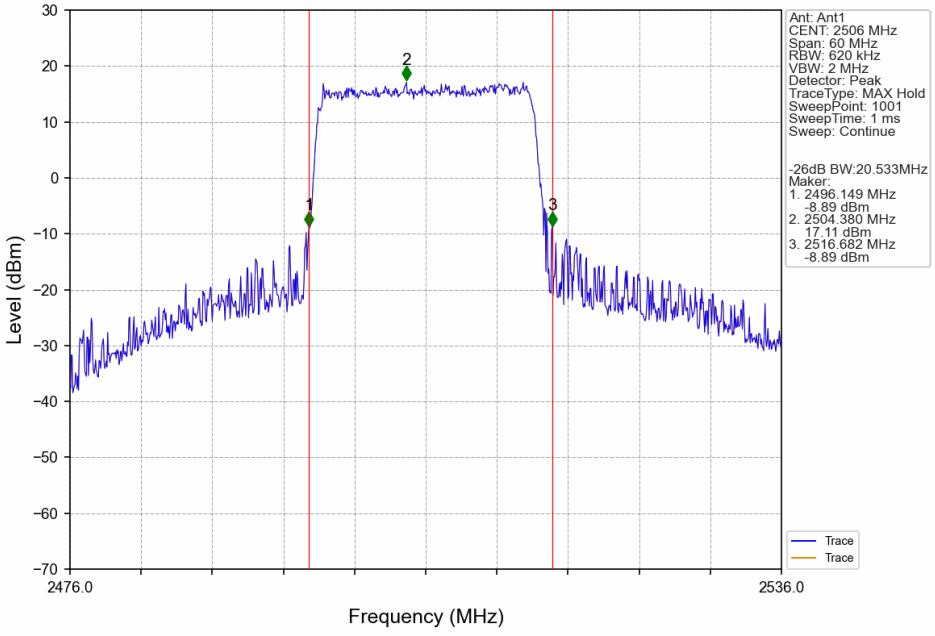
Band41_20MHz_QPSK_MCH_2593MHz_RB_100_0_NTNV



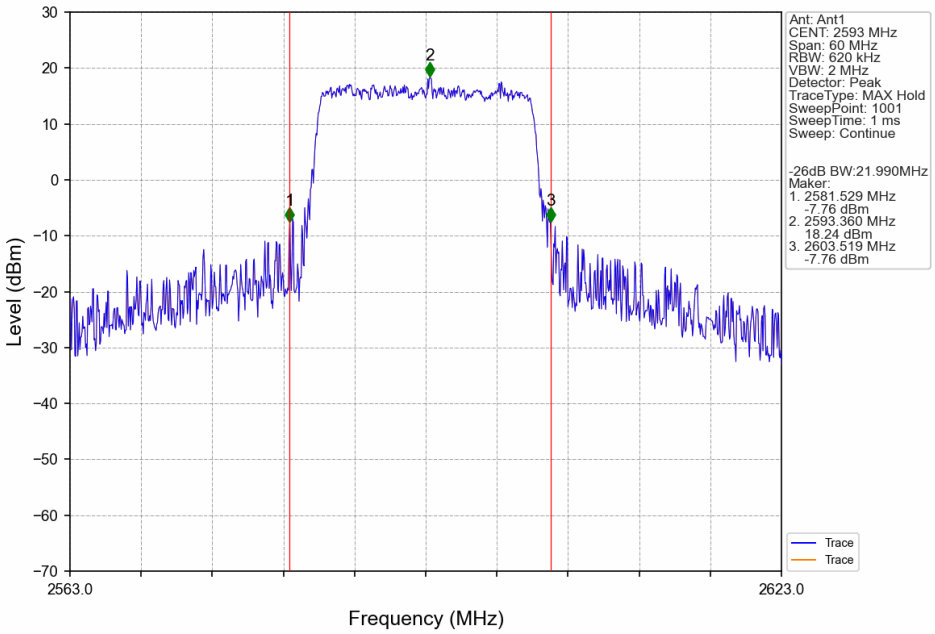
Band41_20MHz_QPSK_HCH_2680MHz_RB_100_0_NTNV



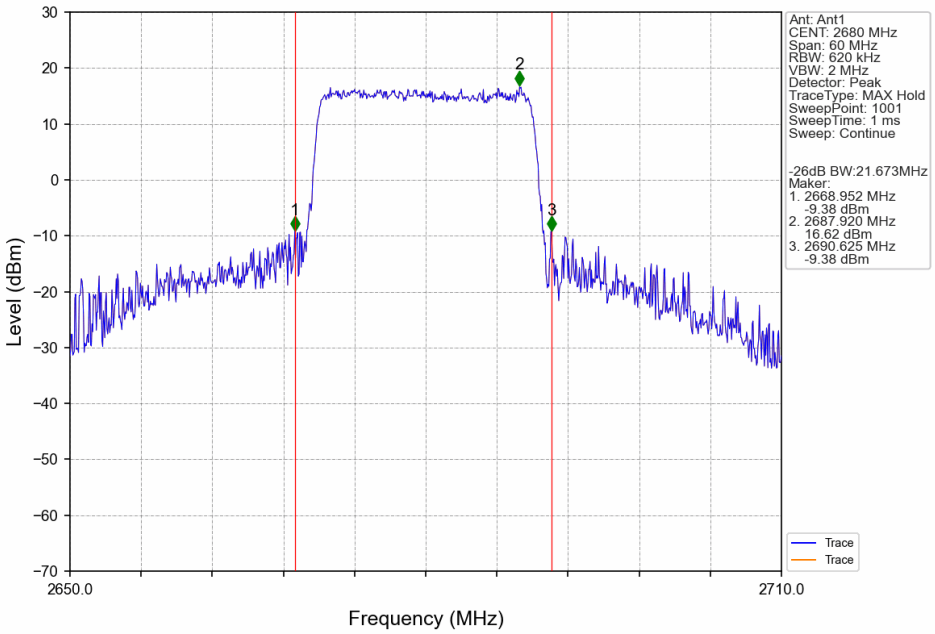
Band41_20MHz_16QAM_LCH_2506MHz_RB_100_0_NTNV



Band41_20MHz_16QAM_MCH_2593MHz_RB_100_0_NTNV



Band41_20MHz_16QAM_HCH_2680MHz_RB_100_0_NTNV



5. Peak-Average Ratio

5.1 Test Result

5.1.1 B41_5MHz

Band: 41 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2498.5	25	0	7.66	<=13	Pass
	2593	25	0	7.52	<=13	Pass
	2687.5	25	0	7.34	<=13	Pass
16QAM	2498.5	25	0	8.24	<=13	Pass
	2593	25	0	8.36	<=13	Pass
	2687.5	25	0	8.01	<=13	Pass

5.1.2 B41_10MHz

Band: 41 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2501	50	0	7.52	<=13	Pass
	2593	50	0	7.49	<=13	Pass
	2685	50	0	7.30	<=13	Pass
16QAM	2501	50	0	8.51	<=13	Pass
	2593	50	0	8.17	<=13	Pass
	2685	50	0	7.95	<=13	Pass

5.1.3 B41_15MHz

Band: 41 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2503.5	75	0	7.86	<=13	Pass
	2593	75	0	7.82	<=13	Pass
	2682.5	75	0	7.32	<=13	Pass
16QAM	2503.5	75	0	8.47	<=13	Pass
	2593	75	0	8.46	<=13	Pass
	2682.5	75	0	8.04	<=13	Pass

5.1.4 B41_20MHz

Band: 41 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2506	100	0	7.51	<=13	Pass
	2593	100	0	7.45	<=13	Pass
	2680	100	0	7.20	<=13	Pass
16QAM	2506	100	0	8.49	<=13	Pass
	2593	100	0	7.99	<=13	Pass

	2680	100	0	7.93	<=13	Pass