

Appendix RF test data for LTE_band_41

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B41_5MHz_EIRP

Band: 41 / Bandwidth: 5MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2498.5	1	0	23.34	3.60	26.94	<=33.01	Pass
			13	23.36	3.60	26.96	<=33.01	Pass
			24	23.29	3.60	26.89	<=33.01	Pass
		12	0	22.37	3.60	25.97	<=33.01	Pass
			6	22.31	3.60	25.91	<=33.01	Pass
			13	22.30	3.60	25.90	<=33.01	Pass
		25	0	22.38	3.60	25.98	<=33.01	Pass
	2593	1	0	23.54	3.60	27.14	<=33.01	Pass
			13	23.62	3.60	27.22	<=33.01	Pass
			24	23.67	3.60	27.27	<=33.01	Pass
		12	0	22.57	3.60	26.17	<=33.01	Pass
			6	22.54	3.60	26.14	<=33.01	Pass
			13	22.58	3.60	26.18	<=33.01	Pass
		25	0	22.58	3.60	26.18	<=33.01	Pass
	2687.5	1	0	23.78	3.60	27.38	<=33.01	Pass
			13	23.77	3.60	27.37	<=33.01	Pass
			24	23.79	3.60	27.39	<=33.01	Pass
		12	0	22.66	3.60	26.26	<=33.01	Pass
			6	22.61	3.60	26.21	<=33.01	Pass
			13	22.60	3.60	26.20	<=33.01	Pass
		25	0	22.65	3.60	26.25	<=33.01	Pass
16QAM	2498.5	1	0	22.40	3.60	26.00	<=33.01	Pass
			13	22.37	3.60	25.97	<=33.01	Pass
			24	22.10	3.60	25.70	<=33.01	Pass
		12	0	21.36	3.60	24.96	<=33.01	Pass
			6	21.22	3.60	24.82	<=33.01	Pass
			13	21.21	3.60	24.81	<=33.01	Pass
		25	0	21.32	3.60	24.92	<=33.01	Pass
	2593	1	0	22.80	3.60	26.40	<=33.01	Pass
			13	22.52	3.60	26.12	<=33.01	Pass
			24	22.57	3.60	26.17	<=33.01	Pass
		12	0	21.55	3.60	25.15	<=33.01	Pass
			6	21.47	3.60	25.07	<=33.01	Pass
			13	21.52	3.60	25.12	<=33.01	Pass
		25	0	21.54	3.60	25.14	<=33.01	Pass
	2687.5	1	0	22.76	3.60	26.36	<=33.01	Pass
			13	22.58	3.60	26.18	<=33.01	Pass
			24	22.60	3.60	26.20	<=33.01	Pass
		12	0	21.65	3.60	25.25	<=33.01	Pass
			6	21.59	3.60	25.19	<=33.01	Pass
			13	21.60	3.60	25.20	<=33.01	Pass
		25	0	21.65	3.60	25.25	<=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	23.43	3.60	27.03	<=33.01	Pass
			25	23.37	3.60	26.97	<=33.01	Pass
			49	23.28	3.60	26.88	<=33.01	Pass
		25	0	22.37	3.60	25.97	<=33.01	Pass
			13	22.32	3.60	25.92	<=33.01	Pass
			25	22.26	3.60	25.86	<=33.01	Pass
		50	0	22.33	3.60	25.93	<=33.01	Pass
	2593	1	0	23.49	3.60	27.09	<=33.01	Pass
			25	23.66	3.60	27.26	<=33.01	Pass
			49	23.67	3.60	27.27	<=33.01	Pass
		25	0	22.55	3.60	26.15	<=33.01	Pass
			13	22.56	3.60	26.16	<=33.01	Pass
			25	22.59	3.60	26.19	<=33.01	Pass
		50	0	22.58	3.60	26.18	<=33.01	Pass
	2685	1	0	23.57	3.60	27.17	<=33.01	Pass
			25	23.65	3.60	27.25	<=33.01	Pass
			49	23.51	3.60	27.11	<=33.01	Pass
		25	0	22.61	3.60	26.21	<=33.01	Pass
			13	22.61	3.60	26.21	<=33.01	Pass
			25	22.65	3.60	26.25	<=33.01	Pass
		50	0	22.65	3.60	26.25	<=33.01	Pass
16QAM	2501	1	0	22.23	3.60	25.83	<=33.01	Pass
			25	22.25	3.60	25.85	<=33.01	Pass
			49	22.14	3.60	25.74	<=33.01	Pass
		12	0	22.32	3.60	25.92	<=33.01	Pass
			19	22.25	3.60	25.85	<=33.01	Pass
			38	22.32	3.60	25.92	<=33.01	Pass
		27	0	21.29	3.60	24.89	<=33.01	Pass
	2593	1	0	22.29	3.60	25.89	<=33.01	Pass
			25	22.66	3.60	26.26	<=33.01	Pass
			49	22.74	3.60	26.34	<=33.01	Pass
		12	0	22.50	3.60	26.10	<=33.01	Pass
			19	22.55	3.60	26.15	<=33.01	Pass
			38	22.67	3.60	26.27	<=33.01	Pass
		27	0	21.55	3.60	25.15	<=33.01	Pass
	2685	1	0	22.53	3.60	26.13	<=33.01	Pass
			25	22.86	3.60	26.46	<=33.01	Pass
			49	22.28	3.60	25.88	<=33.01	Pass
		12	0	22.63	3.60	26.23	<=33.01	Pass
19			22.67	3.60	26.27	<=33.01	Pass	
38			22.60	3.60	26.20	<=33.01	Pass	
27		23	21.53	3.60	25.13	<=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	23.35	3.60	26.95	<=33.01	Pass
			38	23.20	3.60	26.80	<=33.01	Pass
			74	23.23	3.60	26.83	<=33.01	Pass



16QAM	2593	36	0	22.32	3.60	25.92	<=33.01	Pass	
			18	22.21	3.60	25.81	<=33.01	Pass	
			39	22.19	3.60	25.79	<=33.01	Pass	
		75	0	22.29	3.60	25.89	<=33.01	Pass	
			1	0	23.39	3.60	26.99	<=33.01	Pass
				38	23.57	3.60	27.17	<=33.01	Pass
		74		23.64	3.60	27.24	<=33.01	Pass	
		36	0	22.50	3.60	26.10	<=33.01	Pass	
			18	22.55	3.60	26.15	<=33.01	Pass	
			39	22.63	3.60	26.23	<=33.01	Pass	
		75	0	22.56	3.60	26.16	<=33.01	Pass	
	2682.5		1	0	23.73	3.60	27.33	<=33.01	Pass
				38	23.67	3.60	27.27	<=33.01	Pass
		74		23.56	3.60	27.16	<=33.01	Pass	
		36	0	22.54	3.60	26.14	<=33.01	Pass	
			18	22.61	3.60	26.21	<=33.01	Pass	
			39	22.61	3.60	26.21	<=33.01	Pass	
	75	0	22.56	3.60	26.16	<=33.01	Pass		
		2503.5	1	0	22.60	3.60	26.20	<=33.01	Pass
				38	22.05	3.60	25.65	<=33.01	Pass
	74			22.51	3.60	26.11	<=33.01	Pass	
	12		0	22.27	3.60	25.87	<=33.01	Pass	
			31	22.26	3.60	25.86	<=33.01	Pass	
			63	22.20	3.60	25.80	<=33.01	Pass	
	27		0	21.26	3.60	24.86	<=33.01	Pass	
	2593		1	0	22.26	3.60	25.86	<=33.01	Pass
				38	22.40	3.60	26.00	<=33.01	Pass
74				22.48	3.60	26.08	<=33.01	Pass	
12		0	22.45	3.60	26.05	<=33.01	Pass		
		31	22.53	3.60	26.13	<=33.01	Pass		
		63	22.58	3.60	26.18	<=33.01	Pass		
27	0	21.43	3.60	25.03	<=33.01	Pass			
2682.5	1	0	22.65	3.60	26.25	<=33.01	Pass		
		38	22.66	3.60	26.26	<=33.01	Pass		
		74	22.57	3.60	26.17	<=33.01	Pass		
	12	0	22.51	3.60	26.11	<=33.01	Pass		
		31	22.54	3.60	26.14	<=33.01	Pass		
		63	22.48	3.60	26.08	<=33.01	Pass		
27	48	21.54	3.60	25.14	<=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	23.27	3.60	26.87	<=33.01	Pass
			50	23.35	3.60	26.95	<=33.01	Pass
			99	23.19	3.60	26.79	<=33.01	Pass
		50	0	22.28	3.60	25.88	<=33.01	Pass
			25	22.30	3.60	25.90	<=33.01	Pass
			50	22.22	3.60	25.82	<=33.01	Pass
		100	0	22.25	3.60	25.85	<=33.01	Pass
	2593	1	0	23.31	3.60	26.91	<=33.01	Pass
			50	23.52	3.60	27.12	<=33.01	Pass
			99	23.52	3.60	27.12	<=33.01	Pass
		50	0	22.53	3.60	26.13	<=33.01	Pass
			25	22.61	3.60	26.21	<=33.01	Pass



			50	22.68	3.60	26.28	<=33.01	Pass
		100	0	22.56	3.60	26.16	<=33.01	Pass
	2680	1	0	23.39	3.60	26.99	<=33.01	Pass
			50	23.62	3.60	27.22	<=33.01	Pass
			99	23.41	3.60	27.01	<=33.01	Pass
			0	22.62	3.60	26.22	<=33.01	Pass
		50	25	22.63	3.60	26.23	<=33.01	Pass
			50	22.66	3.60	26.26	<=33.01	Pass
		100	0	22.60	3.60	26.20	<=33.01	Pass
16QAM	2506	1	0	22.25	3.60	25.85	<=33.01	Pass
			50	22.51	3.60	26.11	<=33.01	Pass
			99	22.05	3.60	25.65	<=33.01	Pass
		12	0	22.11	3.60	25.71	<=33.01	Pass
			44	22.26	3.60	25.86	<=33.01	Pass
			88	22.13	3.60	25.73	<=33.01	Pass
			27	0	21.19	3.60	24.79	<=33.01
	2593	1	0	22.35	3.60	25.95	<=33.01	Pass
			50	22.76	3.60	26.36	<=33.01	Pass
			99	22.26	3.60	25.86	<=33.01	Pass
		12	0	22.34	3.60	25.94	<=33.01	Pass
			44	22.48	3.60	26.08	<=33.01	Pass
			88	22.62	3.60	26.22	<=33.01	Pass
	27	0	21.40	3.60	25.00	<=33.01	Pass	
	2680	1	0	22.25	3.60	25.85	<=33.01	Pass
			50	22.64	3.60	26.24	<=33.01	Pass
			99	22.21	3.60	25.81	<=33.01	Pass
		12	0	22.53	3.60	26.13	<=33.01	Pass
			44	22.61	3.60	26.21	<=33.01	Pass
			88	22.49	3.60	26.09	<=33.01	Pass
		27	73	21.49	3.60	25.09	<=33.01	Pass
Note1: EIRP=Conducted Power+Antenna Gain								

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	5.493	0.0022	-2.5 to 2.5	Pass
					3.85	6.337	0.0025	-2.5 to 2.5	Pass
					4.43	7.281	0.0029	-2.5 to 2.5	Pass
				-30	3.85	7.510	0.0030	-2.5 to 2.5	Pass
				-20	3.85	8.397	0.0034	-2.5 to 2.5	Pass
				-10	3.85	6.051	0.0024	-2.5 to 2.5	Pass
				0	3.85	6.666	0.0027	-2.5 to 2.5	Pass
				10	3.85	2.346	0.0009	-2.5 to 2.5	Pass
				30	3.85	3.662	0.0015	-2.5 to 2.5	Pass
				40	3.85	4.005	0.0016	-2.5 to 2.5	Pass
				50	3.85	3.548	0.0014	-2.5 to 2.5	Pass
	2593	25	0	20	3.27	-15.178	-0.0059	-2.5 to 2.5	Pass
					3.85	0.257	0.0001	-2.5 to 2.5	Pass
					4.43	1.059	0.0004	-2.5 to 2.5	Pass
				-30	3.85	4.706	0.0018	-2.5 to 2.5	Pass



				-20	3.85	0.200	0.0001	-2.5 to 2.5	Pass
				-10	3.85	1.445	0.0006	-2.5 to 2.5	Pass
				0	3.85	-2.203	-0.0008	-2.5 to 2.5	Pass
				10	3.85	0.029	0.0000	-2.5 to 2.5	Pass
				30	3.85	0.715	0.0003	-2.5 to 2.5	Pass
				40	3.85	-0.801	-0.0003	-2.5 to 2.5	Pass
				50	3.85	0.744	0.0003	-2.5 to 2.5	Pass
	2687.5	25	0	20	3.27	-0.443	-0.0002	-2.5 to 2.5	Pass
					3.85	4.363	0.0016	-2.5 to 2.5	Pass
					4.43	1.960	0.0007	-2.5 to 2.5	Pass
				-30	3.85	3.219	0.0012	-2.5 to 2.5	Pass
				-20	3.85	-1.745	-0.0006	-2.5 to 2.5	Pass
				-10	3.85	2.561	0.0010	-2.5 to 2.5	Pass
				0	3.85	0.029	0.0000	-2.5 to 2.5	Pass
				10	3.85	5.722	0.0021	-2.5 to 2.5	Pass
				30	3.85	2.131	0.0008	-2.5 to 2.5	Pass
				40	3.85	3.619	0.0013	-2.5 to 2.5	Pass
				50	3.85	2.775	0.0010	-2.5 to 2.5	Pass
16QAM	2498.5	25	0	20	3.27	5.121	0.0020	-2.5 to 2.5	Pass
					3.85	4.978	0.0020	-2.5 to 2.5	Pass
					4.43	5.035	0.0020	-2.5 to 2.5	Pass
				-30	3.85	5.164	0.0021	-2.5 to 2.5	Pass
				-20	3.85	-8.626	-0.0035	-2.5 to 2.5	Pass
				-10	3.85	4.449	0.0018	-2.5 to 2.5	Pass
				0	3.85	5.450	0.0022	-2.5 to 2.5	Pass
				10	3.85	5.808	0.0023	-2.5 to 2.5	Pass
				30	3.85	3.376	0.0014	-2.5 to 2.5	Pass
				40	3.85	5.035	0.0020	-2.5 to 2.5	Pass
				50	3.85	1.974	0.0008	-2.5 to 2.5	Pass
	2593	25	0	20	3.27	4.792	0.0018	-2.5 to 2.5	Pass
					3.85	3.562	0.0014	-2.5 to 2.5	Pass
					4.43	1.030	0.0004	-2.5 to 2.5	Pass
				-30	3.85	4.649	0.0018	-2.5 to 2.5	Pass
				-20	3.85	0.029	0.0000	-2.5 to 2.5	Pass
				-10	3.85	3.104	0.0012	-2.5 to 2.5	Pass
				0	3.85	1.588	0.0006	-2.5 to 2.5	Pass
				10	3.85	0.715	0.0003	-2.5 to 2.5	Pass
				30	3.85	-0.029	0.0000	-2.5 to 2.5	Pass
				40	3.85	3.934	0.0015	-2.5 to 2.5	Pass
				50	3.85	2.918	0.0011	-2.5 to 2.5	Pass
	2687.5	25	0	20	3.27	4.048	0.0015	-2.5 to 2.5	Pass
					3.85	4.663	0.0017	-2.5 to 2.5	Pass
					4.43	0.801	0.0003	-2.5 to 2.5	Pass
				-30	3.85	-0.401	-0.0001	-2.5 to 2.5	Pass
				-20	3.85	0.129	0.0000	-2.5 to 2.5	Pass
				-10	3.85	0.286	0.0001	-2.5 to 2.5	Pass
				0	3.85	1.144	0.0004	-2.5 to 2.5	Pass
				10	3.85	-0.758	-0.0003	-2.5 to 2.5	Pass
				30	3.85	-3.591	-0.0013	-2.5 to 2.5	Pass
				40	3.85	-1.760	-0.0007	-2.5 to 2.5	Pass
				50	3.85	1.345	0.0005	-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	1.688	0.0007	-2.5 to 2.5	Pass



					3.85	5.422	0.0022	-2.5 to 2.5	Pass
					4.43	2.375	0.0009	-2.5 to 2.5	Pass
				-30	3.85	2.861	0.0011	-2.5 to 2.5	Pass
				-20	3.85	-0.973	-0.0004	-2.5 to 2.5	Pass
				-10	3.85	2.375	0.0009	-2.5 to 2.5	Pass
				0	3.85	1.459	0.0006	-2.5 to 2.5	Pass
				10	3.85	3.061	0.0012	-2.5 to 2.5	Pass
				30	3.85	0.215	0.0001	-2.5 to 2.5	Pass
				40	3.85	2.275	0.0009	-2.5 to 2.5	Pass
				50	3.85	3.991	0.0016	-2.5 to 2.5	Pass
	2593	50	0	20	3.27	2.589	0.0010	-2.5 to 2.5	Pass
					3.85	2.875	0.0011	-2.5 to 2.5	Pass
					4.43	2.074	0.0008	-2.5 to 2.5	Pass
				-30	3.85	4.320	0.0017	-2.5 to 2.5	Pass
				-20	3.85	4.649	0.0018	-2.5 to 2.5	Pass
				-10	3.85	-0.257	-0.0001	-2.5 to 2.5	Pass
				0	3.85	-10.099	-0.0039	-2.5 to 2.5	Pass
				10	3.85	-0.129	0.0000	-2.5 to 2.5	Pass
				30	3.85	4.678	0.0018	-2.5 to 2.5	Pass
				40	3.85	1.845	0.0007	-2.5 to 2.5	Pass
	50	3.85	2.031	0.0008	-2.5 to 2.5	Pass			
	2685	50	0	20	3.27	4.449	0.0017	-2.5 to 2.5	Pass
					3.85	0.787	0.0003	-2.5 to 2.5	Pass
					4.43	1.259	0.0005	-2.5 to 2.5	Pass
				-30	3.85	-0.558	-0.0002	-2.5 to 2.5	Pass
				-20	3.85	3.891	0.0014	-2.5 to 2.5	Pass
				-10	3.85	1.717	0.0006	-2.5 to 2.5	Pass
				0	3.85	1.559	0.0006	-2.5 to 2.5	Pass
				10	3.85	-0.901	-0.0003	-2.5 to 2.5	Pass
				30	3.85	0.815	0.0003	-2.5 to 2.5	Pass
				40	3.85	0.987	0.0004	-2.5 to 2.5	Pass
50	3.85	1.044	0.0004	-2.5 to 2.5	Pass				
16QAM	2501	27	0	20	3.27	6.394	0.0026	-2.5 to 2.5	Pass
					3.85	0.501	0.0002	-2.5 to 2.5	Pass
					4.43	1.345	0.0005	-2.5 to 2.5	Pass
				-30	3.85	0.672	0.0003	-2.5 to 2.5	Pass
				-20	3.85	4.320	0.0017	-2.5 to 2.5	Pass
				-10	3.85	4.334	0.0017	-2.5 to 2.5	Pass
				0	3.85	2.203	0.0009	-2.5 to 2.5	Pass
				10	3.85	4.191	0.0017	-2.5 to 2.5	Pass
				30	3.85	2.046	0.0008	-2.5 to 2.5	Pass
				40	3.85	4.449	0.0018	-2.5 to 2.5	Pass
	50	3.85	7.095	0.0028	-2.5 to 2.5	Pass			
	2593	27	0	20	3.27	3.834	0.0015	-2.5 to 2.5	Pass
					3.85	-0.358	-0.0001	-2.5 to 2.5	Pass
					4.43	3.519	0.0014	-2.5 to 2.5	Pass
				-30	3.85	3.734	0.0014	-2.5 to 2.5	Pass
				-20	3.85	0.272	0.0001	-2.5 to 2.5	Pass
				-10	3.85	1.702	0.0007	-2.5 to 2.5	Pass
				0	3.85	2.303	0.0009	-2.5 to 2.5	Pass
				10	3.85	3.963	0.0015	-2.5 to 2.5	Pass
				30	3.85	4.077	0.0016	-2.5 to 2.5	Pass
				40	3.85	5.593	0.0022	-2.5 to 2.5	Pass
	50	3.85	3.376	0.0013	-2.5 to 2.5	Pass			
	2685	27	23	20	3.27	1.516	0.0006	-2.5 to 2.5	Pass
					3.85	2.089	0.0008	-2.5 to 2.5	Pass
					4.43	2.389	0.0009	-2.5 to 2.5	Pass
				-30	3.85	4.134	0.0015	-2.5 to 2.5	Pass
				-20	3.85	4.892	0.0018	-2.5 to 2.5	Pass



				-10	3.85	0.687	0.0003	-2.5 to 2.5	Pass
				0	3.85	0.229	0.0001	-2.5 to 2.5	Pass
				10	3.85	1.087	0.0004	-2.5 to 2.5	Pass
				30	3.85	1.445	0.0005	-2.5 to 2.5	Pass
				40	3.85	1.917	0.0007	-2.5 to 2.5	Pass
				50	3.85	3.576	0.0013	-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	2.804	0.0011	-2.5 to 2.5	Pass
					3.85	2.103	0.0008	-2.5 to 2.5	Pass
					4.43	6.351	0.0025	-2.5 to 2.5	Pass
				-30	3.85	6.366	0.0025	-2.5 to 2.5	Pass
				-20	3.85	2.975	0.0012	-2.5 to 2.5	Pass
				-10	3.85	4.435	0.0018	-2.5 to 2.5	Pass
				0	3.85	2.990	0.0012	-2.5 to 2.5	Pass
				10	3.85	1.845	0.0007	-2.5 to 2.5	Pass
				30	3.85	3.805	0.0015	-2.5 to 2.5	Pass
				40	3.85	2.961	0.0012	-2.5 to 2.5	Pass
				50	3.85	3.104	0.0012	-2.5 to 2.5	Pass
				2593	75	0	20	3.27	1.760
	3.85	2.718	0.0010					-2.5 to 2.5	Pass
	4.43	0.730	0.0003					-2.5 to 2.5	Pass
	-30	3.85	3.419				0.0013	-2.5 to 2.5	Pass
	-20	3.85	2.732				0.0011	-2.5 to 2.5	Pass
	-10	3.85	-1.144				-0.0004	-2.5 to 2.5	Pass
	0	3.85	2.847				0.0011	-2.5 to 2.5	Pass
	10	3.85	1.287				0.0005	-2.5 to 2.5	Pass
	30	3.85	1.559				0.0006	-2.5 to 2.5	Pass
	40	3.85	1.488				0.0006	-2.5 to 2.5	Pass
	50	3.85	0.329				0.0001	-2.5 to 2.5	Pass
	2682.5	75	0				20	3.27	0.558
				3.85	3.819	0.0014		-2.5 to 2.5	Pass
				4.43	2.689	0.0010		-2.5 to 2.5	Pass
				-30	3.85	0.644	0.0002	-2.5 to 2.5	Pass
				-20	3.85	0.830	0.0003	-2.5 to 2.5	Pass
				-10	3.85	1.445	0.0005	-2.5 to 2.5	Pass
				0	3.85	1.945	0.0007	-2.5 to 2.5	Pass
				10	3.85	3.119	0.0012	-2.5 to 2.5	Pass
				30	3.85	1.774	0.0007	-2.5 to 2.5	Pass
				40	3.85	3.390	0.0013	-2.5 to 2.5	Pass
				50	3.85	2.933	0.0011	-2.5 to 2.5	Pass
16QAM				2503.5	27	0	20	3.27	3.734
	3.85	4.535	0.0018					-2.5 to 2.5	Pass
	4.43	2.360	0.0009					-2.5 to 2.5	Pass
	-30	3.85	5.479				0.0022	-2.5 to 2.5	Pass
	-20	3.85	4.377				0.0017	-2.5 to 2.5	Pass
	-10	3.85	5.021				0.0020	-2.5 to 2.5	Pass
	0	3.85	-1.745				-0.0007	-2.5 to 2.5	Pass
	10	3.85	4.420				0.0018	-2.5 to 2.5	Pass
	30	3.85	2.446				0.0010	-2.5 to 2.5	Pass
	40	3.85	4.134				0.0017	-2.5 to 2.5	Pass
	50	3.85	2.446				0.0010	-2.5 to 2.5	Pass
	2593	27	0				20	3.27	2.174
					3.85	1.516	0.0006	-2.5 to 2.5	Pass



					4.43	2.704	0.0010	-2.5 to 2.5	Pass
				-30	3.85	-3.805	-0.0015	-2.5 to 2.5	Pass
				-20	3.85	0.844	0.0003	-2.5 to 2.5	Pass
				-10	3.85	0.086	0.0000	-2.5 to 2.5	Pass
				0	3.85	2.775	0.0011	-2.5 to 2.5	Pass
				10	3.85	2.131	0.0008	-2.5 to 2.5	Pass
				30	3.85	-2.460	-0.0009	-2.5 to 2.5	Pass
				40	3.85	1.101	0.0004	-2.5 to 2.5	Pass
	2682.5	27	48	50	3.85	-0.815	-0.0003	-2.5 to 2.5	Pass
				20	3.27	3.777	0.0014	-2.5 to 2.5	Pass
					3.85	-0.486	-0.0002	-2.5 to 2.5	Pass
					4.43	1.473	0.0005	-2.5 to 2.5	Pass
				-30	3.85	-3.004	-0.0011	-2.5 to 2.5	Pass
				-20	3.85	3.104	0.0012	-2.5 to 2.5	Pass
				-10	3.85	2.389	0.0009	-2.5 to 2.5	Pass
				0	3.85	-2.675	-0.0010	-2.5 to 2.5	Pass
				10	3.85	2.947	0.0011	-2.5 to 2.5	Pass
				30	3.85	4.778	0.0018	-2.5 to 2.5	Pass
				40	3.85	4.349	0.0016	-2.5 to 2.5	Pass
				50	3.85	5.908	0.0022	-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	2.489	0.0010	-2.5 to 2.5	Pass
					3.85	2.217	0.0009	-2.5 to 2.5	Pass
					4.43	5.293	0.0021	-2.5 to 2.5	Pass
				-30	3.85	3.362	0.0013	-2.5 to 2.5	Pass
				-20	3.85	1.974	0.0008	-2.5 to 2.5	Pass
				-10	3.85	2.933	0.0012	-2.5 to 2.5	Pass
				0	3.85	0.672	0.0003	-2.5 to 2.5	Pass
				10	3.85	4.020	0.0016	-2.5 to 2.5	Pass
				30	3.85	0.429	0.0002	-2.5 to 2.5	Pass
				40	3.85	2.832	0.0011	-2.5 to 2.5	Pass
	2593	100	0	50	3.85	3.648	0.0015	-2.5 to 2.5	Pass
				20	3.27	0.200	0.0001	-2.5 to 2.5	Pass
					3.85	-0.844	-0.0003	-2.5 to 2.5	Pass
					4.43	0.701	0.0003	-2.5 to 2.5	Pass
				-30	3.85	1.488	0.0006	-2.5 to 2.5	Pass
				-20	3.85	0.644	0.0002	-2.5 to 2.5	Pass
				-10	3.85	-0.114	0.0000	-2.5 to 2.5	Pass
				0	3.85	0.257	0.0001	-2.5 to 2.5	Pass
				10	3.85	2.861	0.0011	-2.5 to 2.5	Pass
				30	3.85	2.146	0.0008	-2.5 to 2.5	Pass
	2680	100	0	40	3.85	2.618	0.0010	-2.5 to 2.5	Pass
				50	3.85	3.791	0.0015	-2.5 to 2.5	Pass
				20	3.27	1.688	0.0006	-2.5 to 2.5	Pass
					3.85	1.688	0.0006	-2.5 to 2.5	Pass
					4.43	0.916	0.0003	-2.5 to 2.5	Pass
				-30	3.85	-0.873	-0.0003	-2.5 to 2.5	Pass
				-20	3.85	-0.672	-0.0003	-2.5 to 2.5	Pass
				-10	3.85	-1.059	-0.0004	-2.5 to 2.5	Pass
				0	3.85	1.216	0.0005	-2.5 to 2.5	Pass
				10	3.85	-2.074	-0.0008	-2.5 to 2.5	Pass
				30	3.85	0.930	0.0003	-2.5 to 2.5	Pass
				40	3.85	3.033	0.0011	-2.5 to 2.5	Pass



				50	3.85	2.818	0.0011	-2.5 to 2.5	Pass
16QAM	2506	27	0	20	3.27	0.544	0.0002	-2.5 to 2.5	Pass
					3.85	2.832	0.0011	-2.5 to 2.5	Pass
					4.43	2.975	0.0012	-2.5 to 2.5	Pass
					-30	3.85	6.151	0.0025	-2.5 to 2.5
				-20	3.85	1.345	0.0005	-2.5 to 2.5	Pass
				-10	3.85	3.290	0.0013	-2.5 to 2.5	Pass
				0	3.85	4.749	0.0019	-2.5 to 2.5	Pass
				10	3.85	0.229	0.0001	-2.5 to 2.5	Pass
				30	3.85	4.234	0.0017	-2.5 to 2.5	Pass
				40	3.85	2.346	0.0009	-2.5 to 2.5	Pass
				50	3.85	-1.144	-0.0005	-2.5 to 2.5	Pass
				2593	27	0	20	3.27	1.431
	3.85	0.215	0.0001					-2.5 to 2.5	Pass
	4.43	3.519	0.0014					-2.5 to 2.5	Pass
	-30	3.85	-0.443				-0.0002	-2.5 to 2.5	Pass
	-20	3.85	1.717				0.0007	-2.5 to 2.5	Pass
	-10	3.85	0.072				0.0000	-2.5 to 2.5	Pass
	0	3.85	0.200				0.0001	-2.5 to 2.5	Pass
	10	3.85	0.243				0.0001	-2.5 to 2.5	Pass
	30	3.85	1.831				0.0007	-2.5 to 2.5	Pass
	40	3.85	0.529				0.0002	-2.5 to 2.5	Pass
	50	3.85	1.960				0.0008	-2.5 to 2.5	Pass
	2680	27	73				20	3.27	1.931
				3.85	-2.131	-0.0008		-2.5 to 2.5	Pass
				4.43	0.229	0.0001		-2.5 to 2.5	Pass
				-30	3.85	0.658	0.0002	-2.5 to 2.5	Pass
				-20	3.85	2.031	0.0008	-2.5 to 2.5	Pass
				-10	3.85	2.260	0.0008	-2.5 to 2.5	Pass
				0	3.85	0.100	0.0000	-2.5 to 2.5	Pass
				10	3.85	2.775	0.0010	-2.5 to 2.5	Pass
				30	3.85	0.958	0.0004	-2.5 to 2.5	Pass
				40	3.85	1.659	0.0006	-2.5 to 2.5	Pass
				50	3.85	0.858	0.0003	-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	27	0	Refer To Test Graph		Pass

**3.1.3 B41_15MHz**

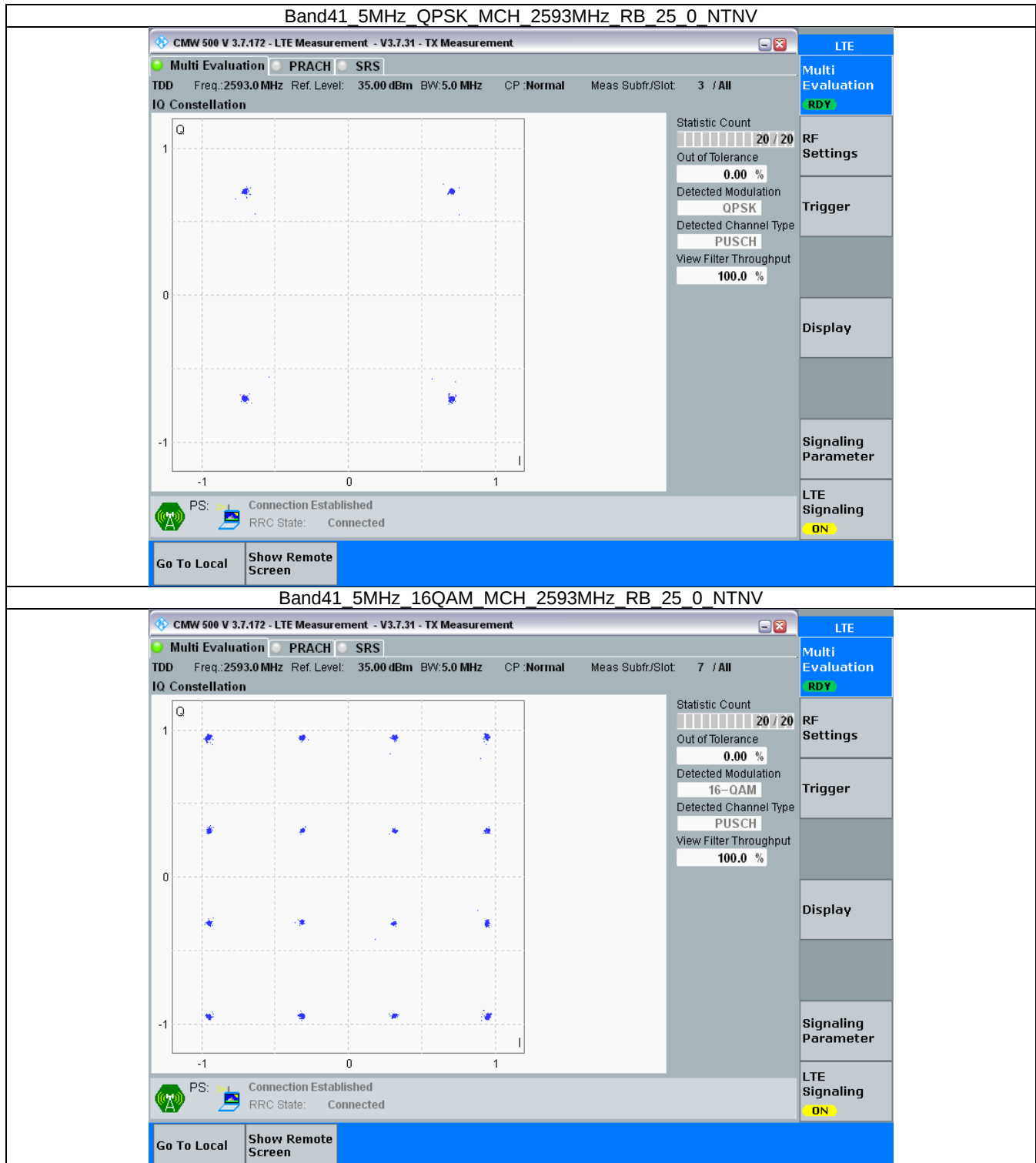
Band: 41 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2593	75	0	Refer To Test Graph		Pass
16QAM	2593	27	0	Refer To Test Graph		Pass

3.1.4 B41_20MHz

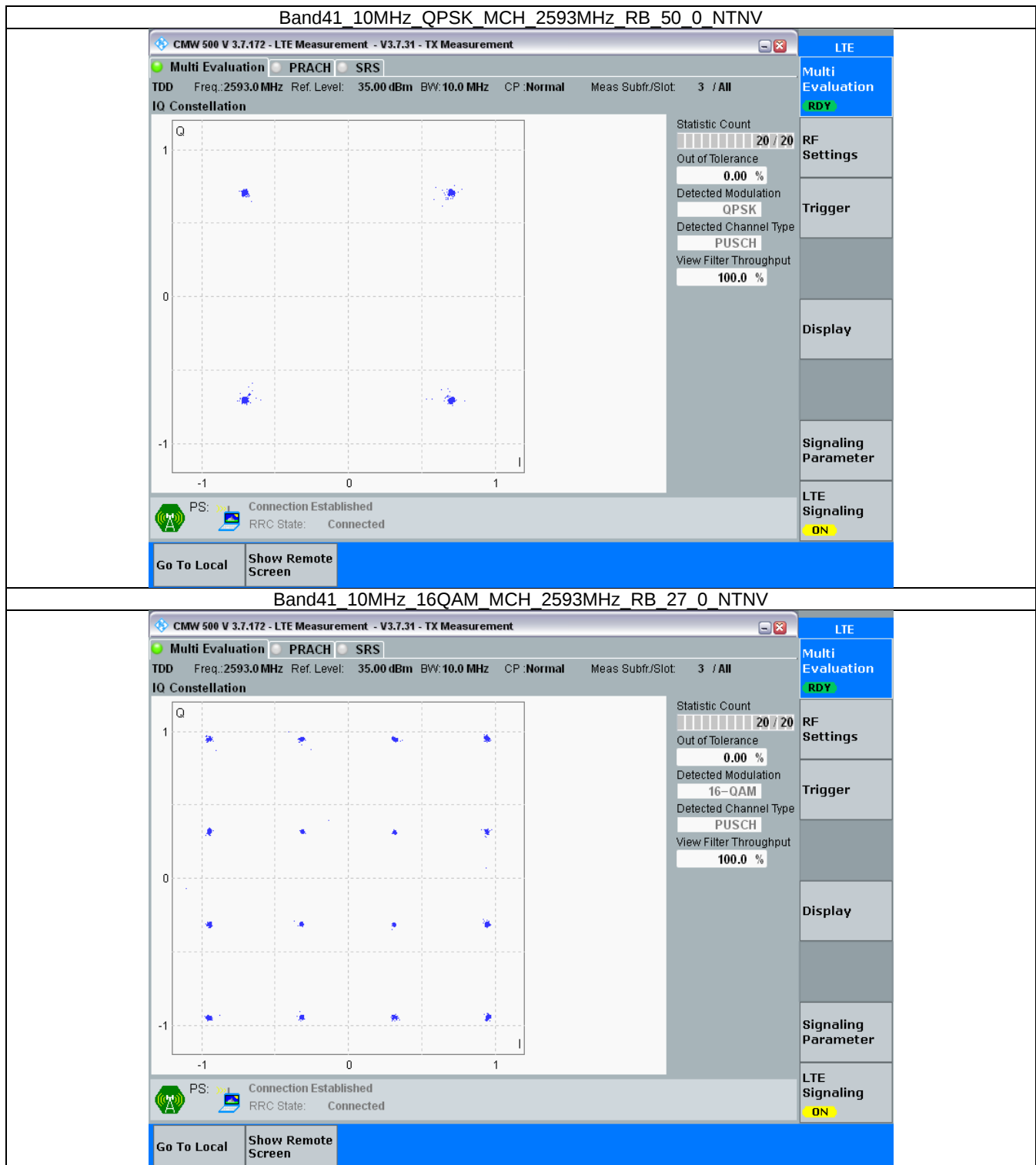
Band: 41 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2593	100	0	Refer To Test Graph		Pass
16QAM	2593	27	0	Refer To Test Graph		Pass

3.2 Test Graph

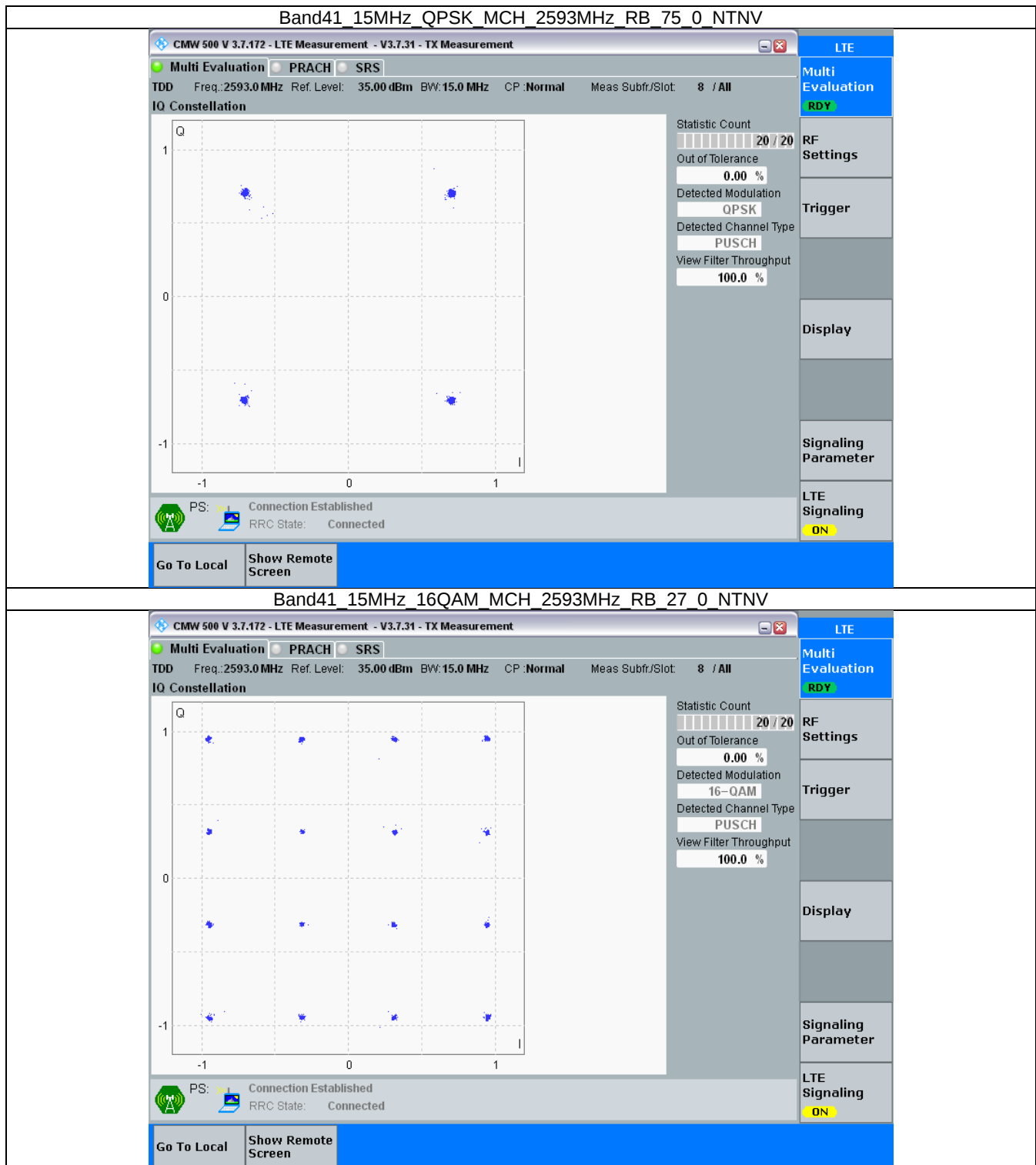
3.2.1 B41_5MHz



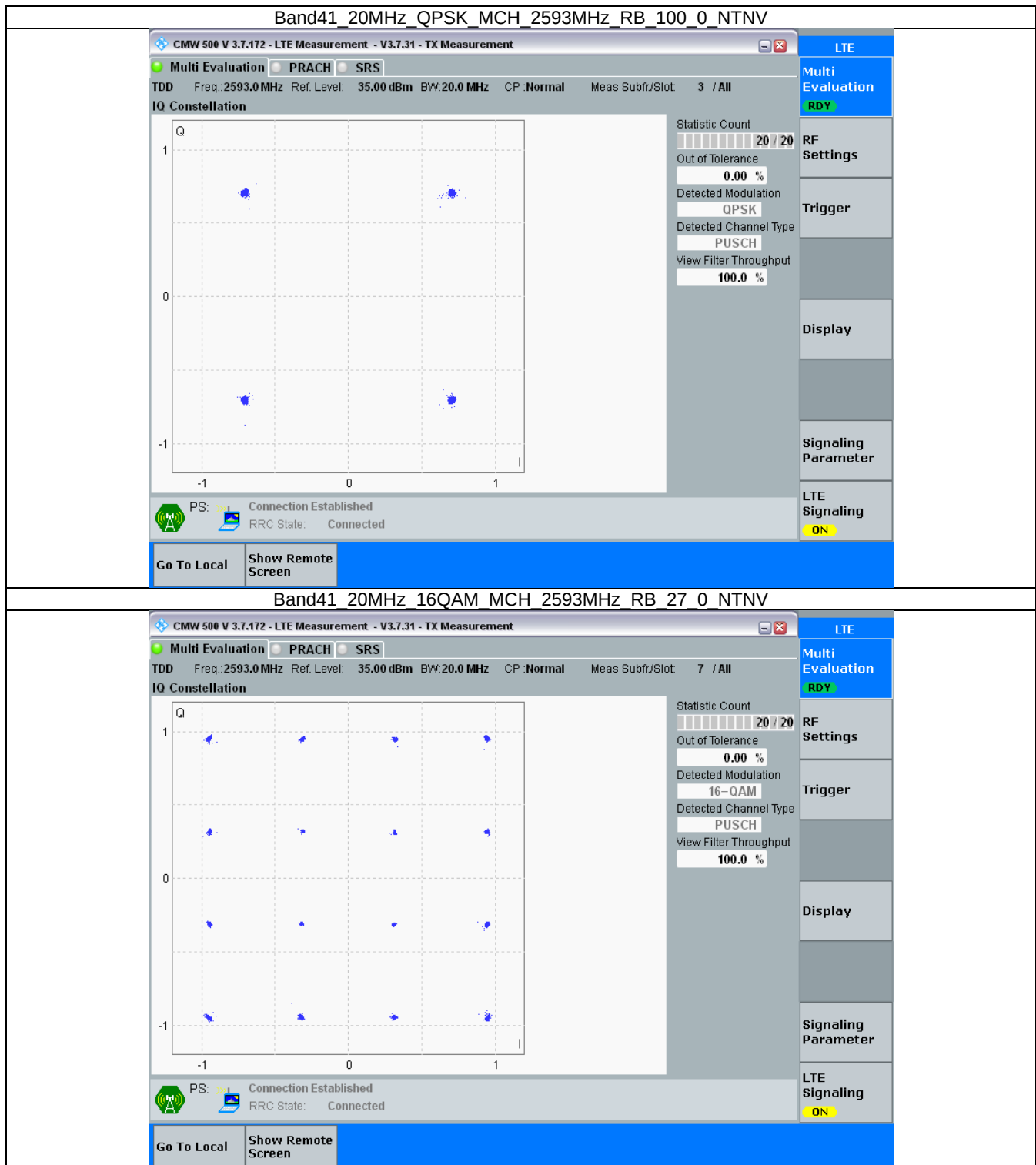
3.2.2 B41_10MHz



3.2.3 B41_15MHz



3.2.4 B41_20MHz



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	4.567	/	Pass
		2593	25	0	4.554	/	Pass
		2687.5	25	0	4.560	/	Pass
	16QAM	2498.5	25	0	4.535	/	Pass
		2593	25	0	4.571	/	Pass
		2687.5	25	0	4.544	/	Pass
10	QPSK	2501	50	0	9.052	/	Pass
		2593	50	0	9.086	/	Pass
		2685	50	0	9.070	/	Pass
	16QAM	2501	27	0	5.117	/	Pass
		2593	27	0	5.103	/	Pass
		2685	27	23	5.074	/	Pass
15	QPSK	2503.5	75	0	13.563	/	Pass
		2593	75	0	13.575	/	Pass
		2682.5	75	0	13.614	/	Pass
	16QAM	2503.5	27	0	5.350	/	Pass
		2593	27	0	5.368	/	Pass
		2682.5	27	48	5.357	/	Pass
20	QPSK	2506	100	0	18.063	/	Pass
		2593	100	0	18.150	/	Pass
		2680	100	0	18.087	/	Pass
	16QAM	2506	27	0	5.589	/	Pass
		2593	27	0	5.589	/	Pass
		2680	27	73	5.623	/	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	5.726	/	Pass
		2593	25	0	5.708	/	Pass
		2687.5	25	0	5.131	/	Pass
	16QAM	2498.5	25	0	5.035	/	Pass
		2593	25	0	5.191	/	Pass
		2687.5	25	0	5.089	/	Pass
10	QPSK	2501	50	0	10.620	/	Pass
		2593	50	0	10.610	/	Pass
		2685	50	0	12.488	/	Pass
	16QAM	2501	27	0	6.566	/	Pass
		2593	27	0	6.160	/	Pass
		2685	27	23	5.895	/	Pass
15	QPSK	2503.5	75	0	15.330	/	Pass
		2593	75	0	15.796	/	Pass
		2682.5	75	0	15.288	/	Pass

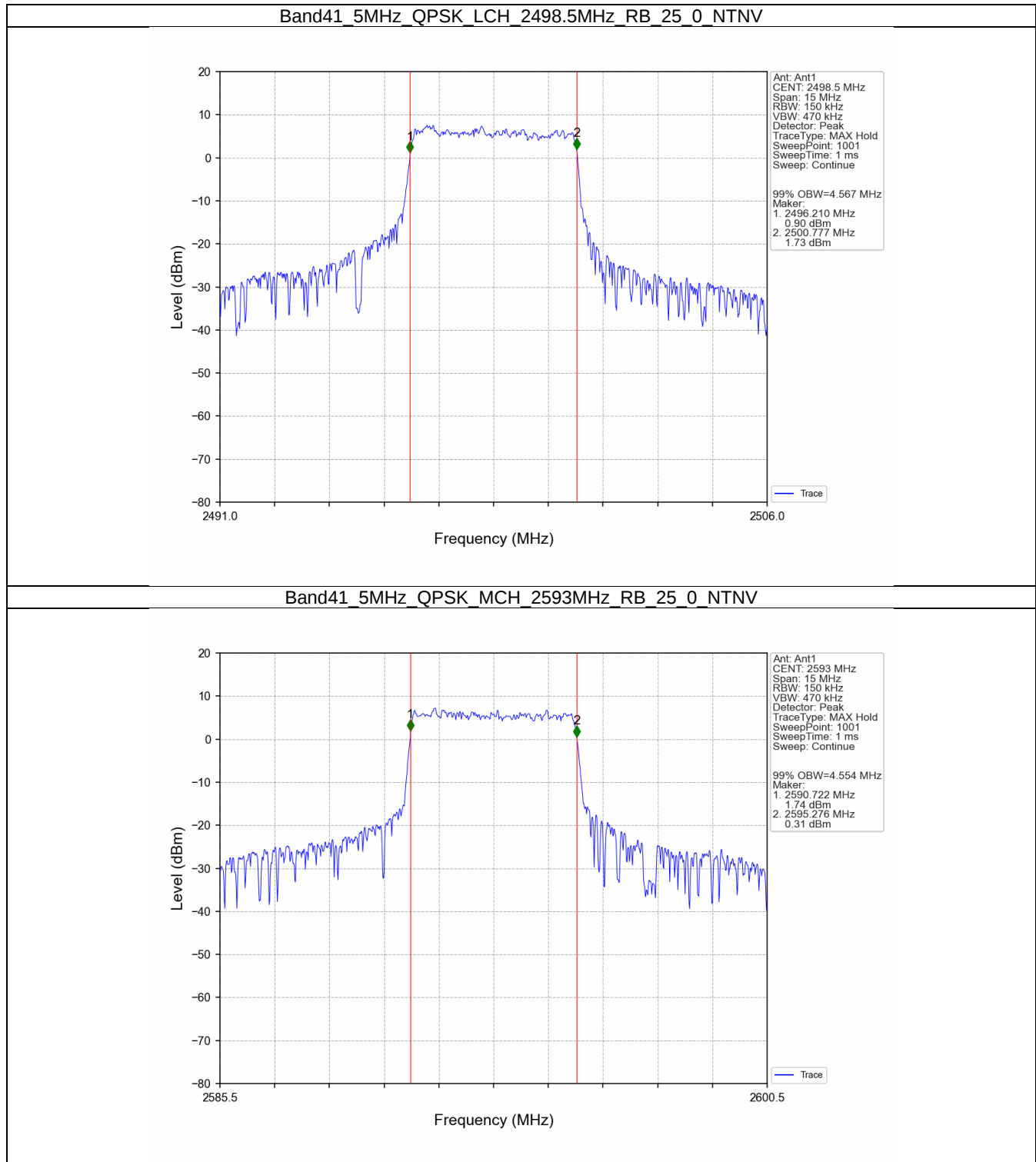


	16QAM	2503.5	27	0	6.601	/	Pass
		2593	27	0	6.760	/	Pass
		2682.5	27	48	7.183	/	Pass
20	QPSK	2506	100	0	24.579	/	Pass
		2593	100	0	21.738	/	Pass
		2680	100	0	21.344	/	Pass
	16QAM	2506	27	0	8.729	/	Pass
		2593	27	0	6.924	/	Pass
		2680	27	73	9.572	/	Pass



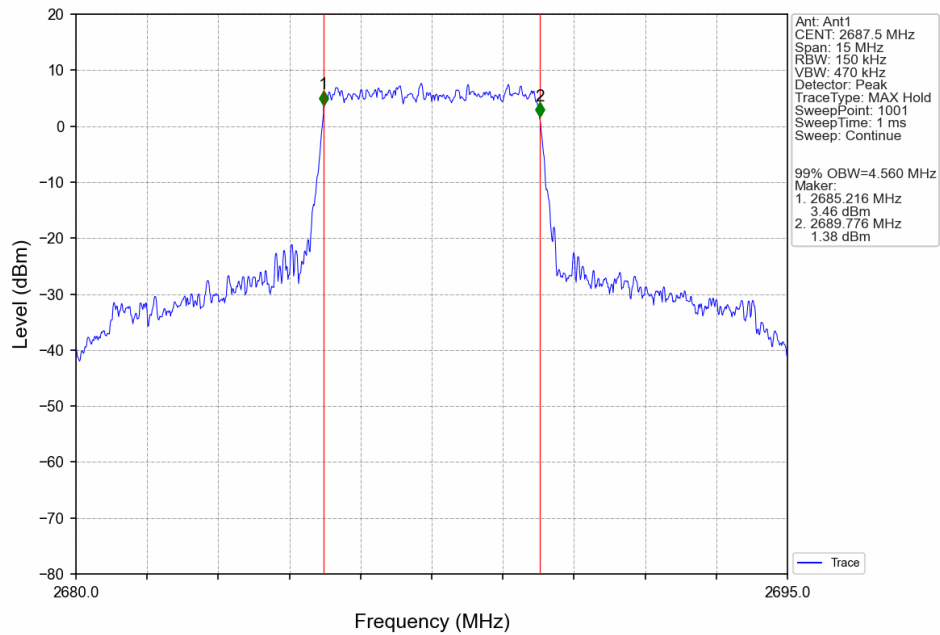
4.2 Test Graph

4.2.1 Band41_OBW

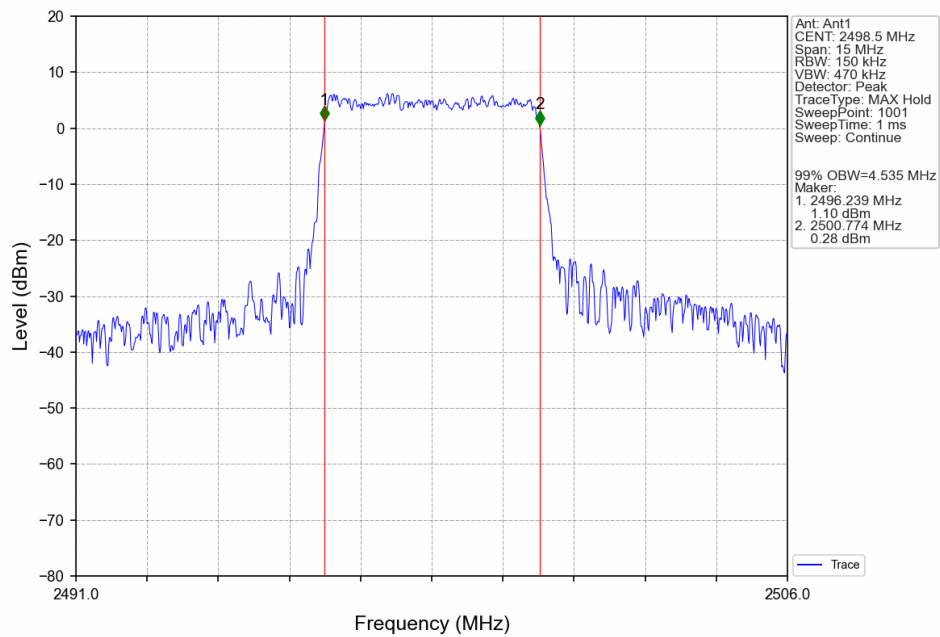




Band41_5MHz_QPSK_HCH_2687.5MHz_RB_25_0_NTNV

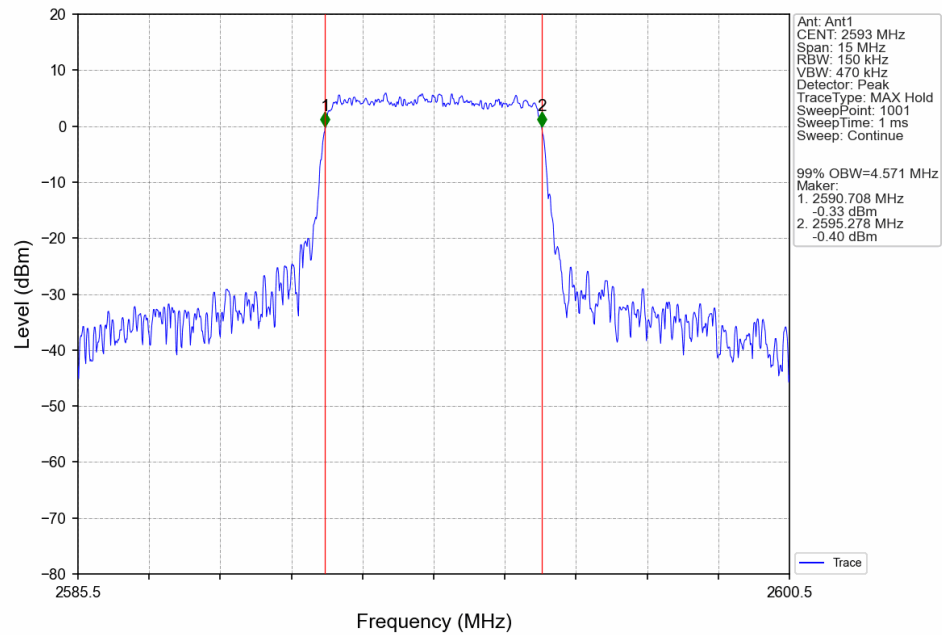


Band41_5MHz_16QAM_LCH_2498.5MHz_RB_25_0_NTNV

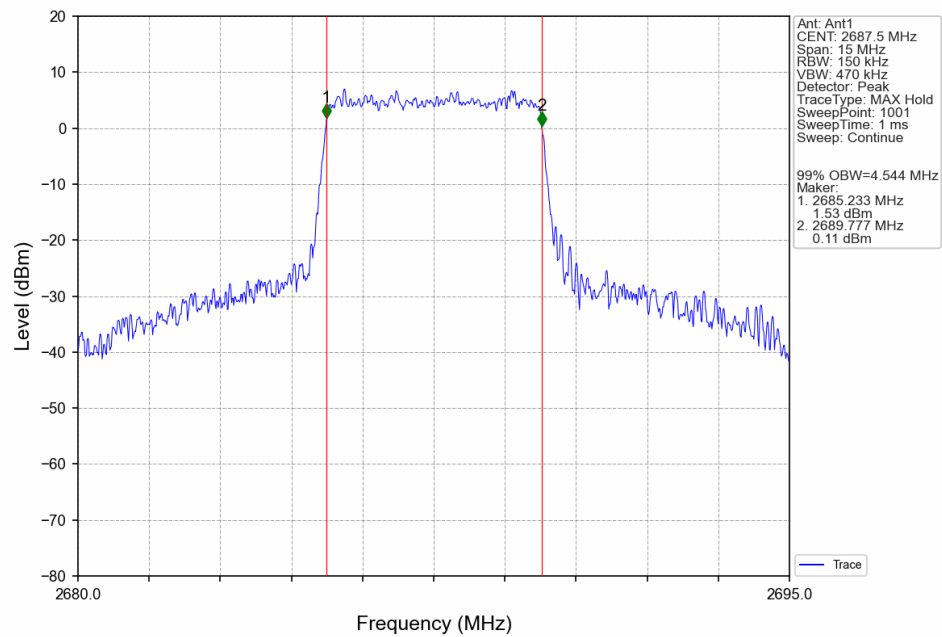




Band41_5MHz_16QAM_MCH_2593MHz_RB_25_0_NTNV

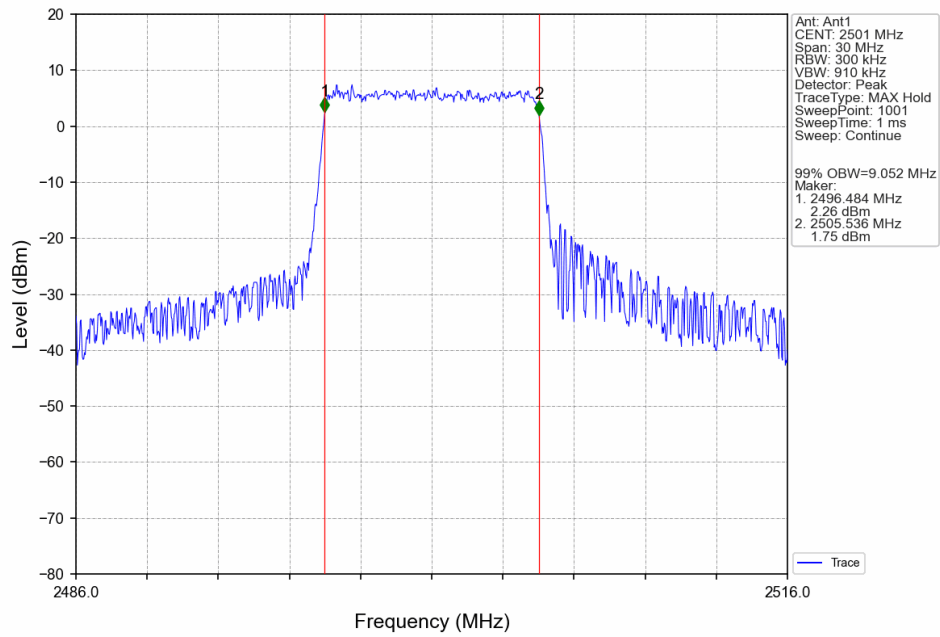


Band41_5MHz_16QAM_HCH_2687.5MHz_RB_25_0_NTNV

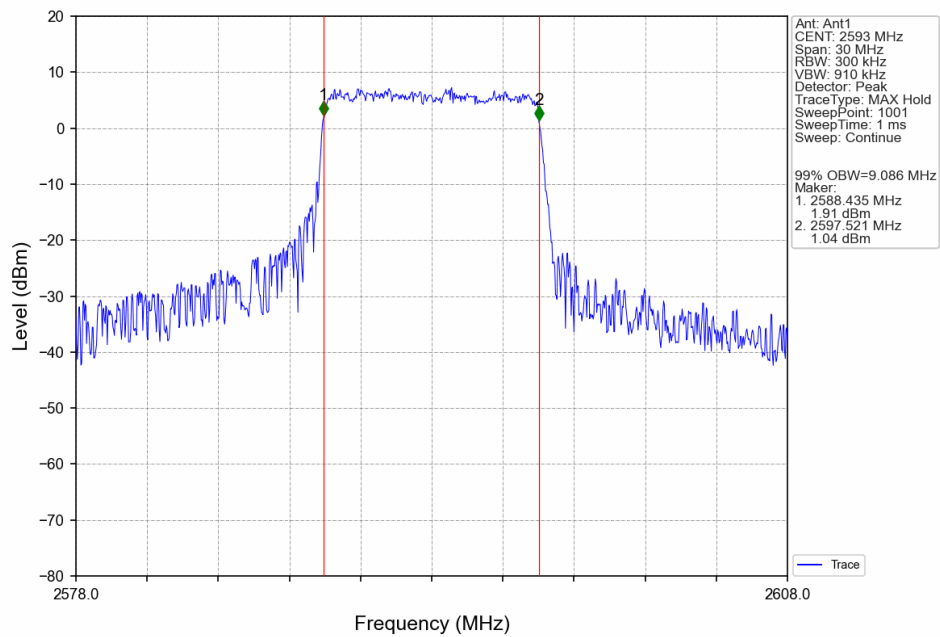




Band41_10MHz_QPSK_LCH_2501MHz_RB_50_0_NTNV

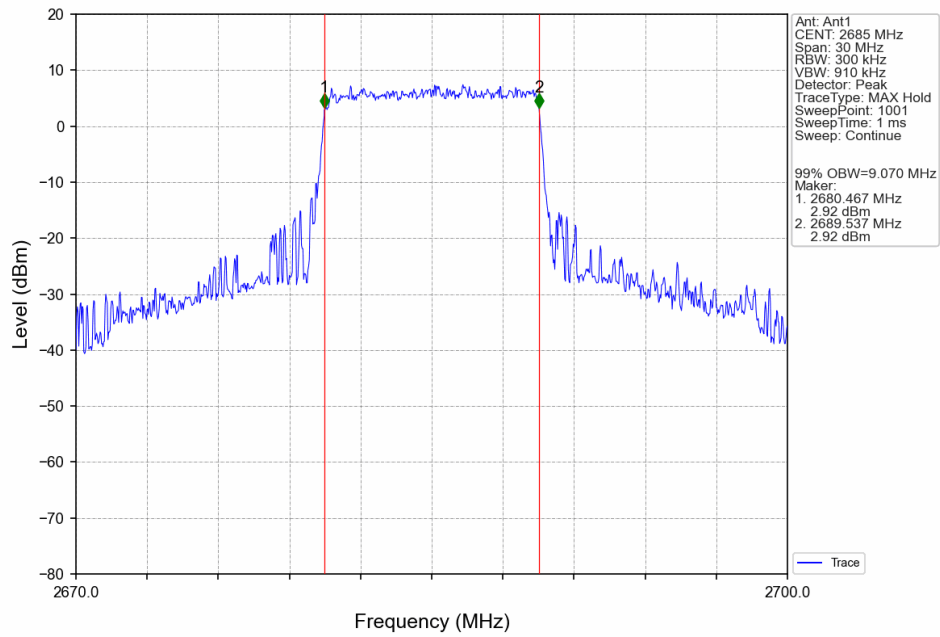


Band41_10MHz_QPSK_MCH_2593MHz_RB_50_0_NTNV

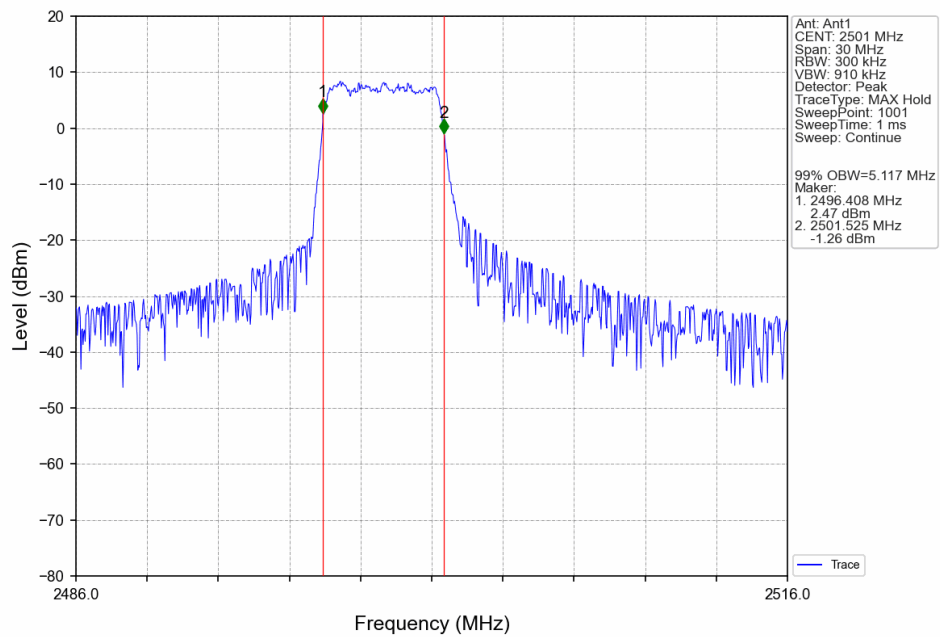




Band41_10MHz_QPSK_HCH_2685MHz_RB_50_0_NTNV

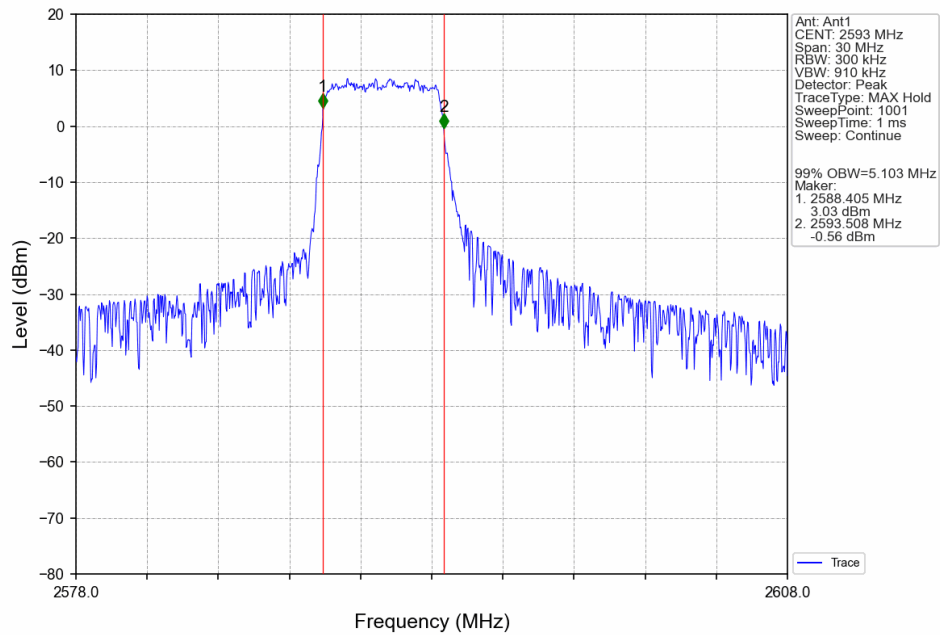


Band41_10MHz_16QAM_LCH_2501MHz_RB_27_0_NTNV

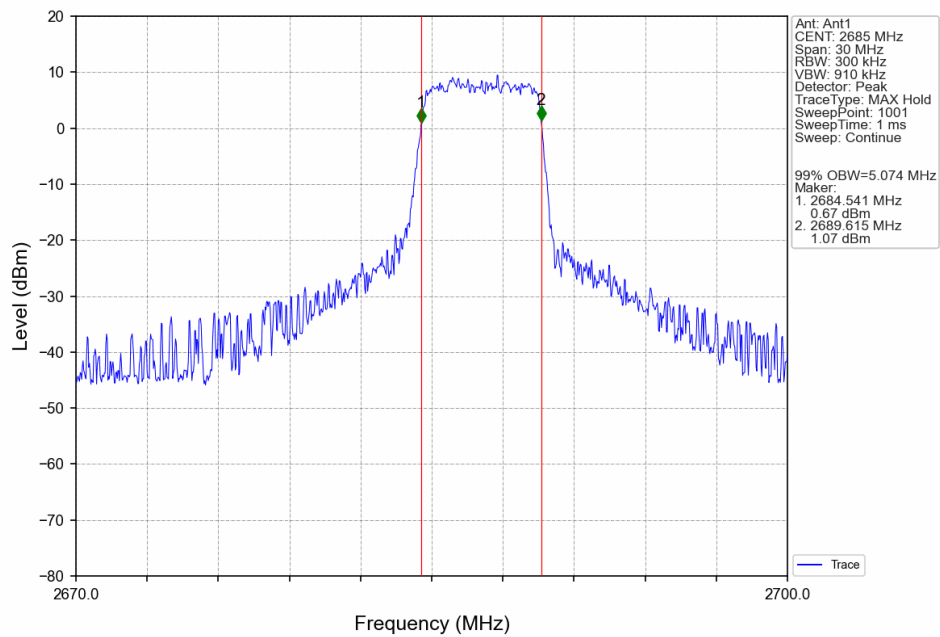




Band41_10MHz_16QAM_MCH_2593MHz_RB_27_0_NTNV

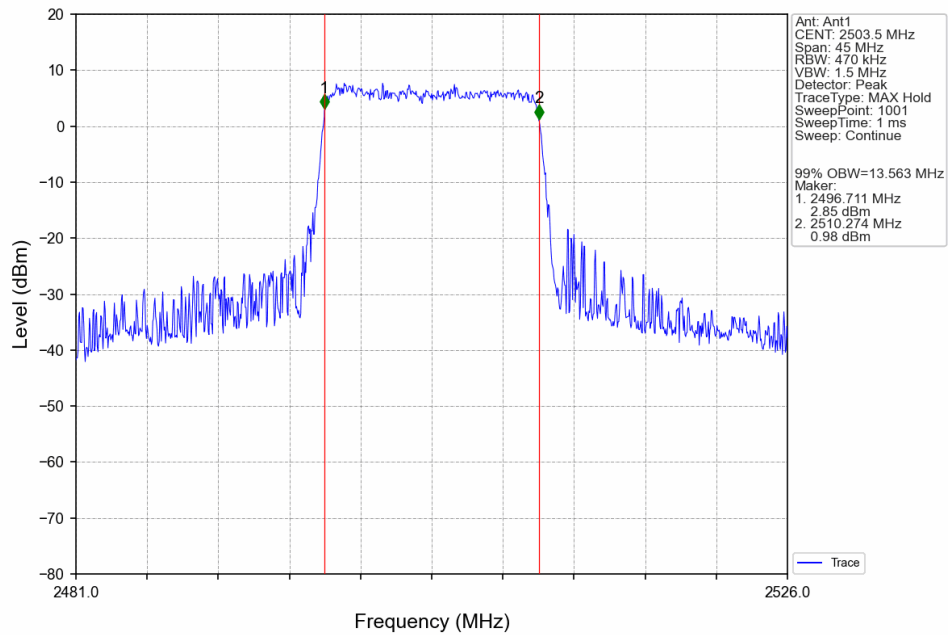


Band41_10MHz_16QAM_HCH_2685MHz_RB_27_23_NTNV

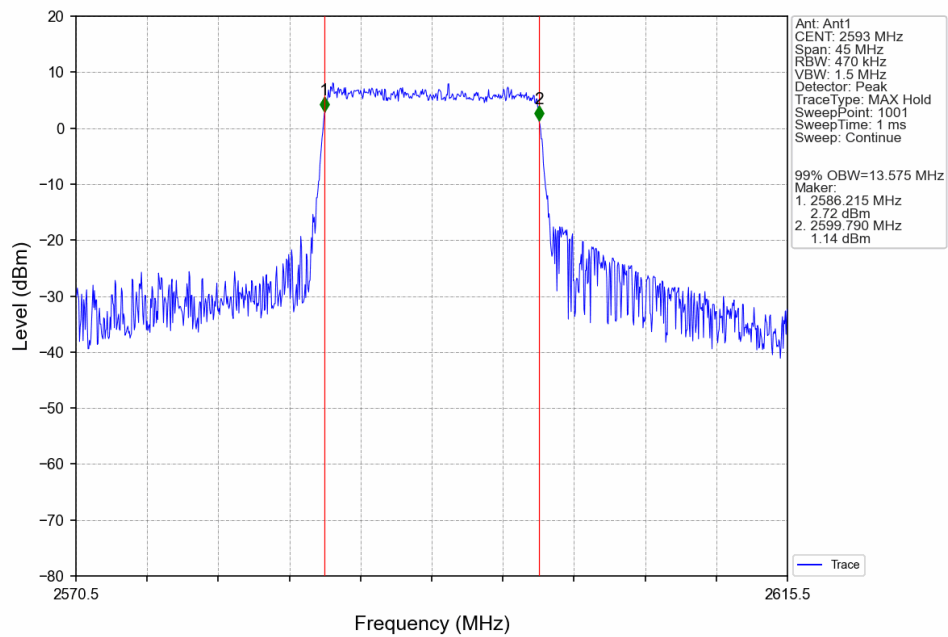




Band41_15MHz_QPSK_LCH_2503.5MHz_RB_75_0_NTNV

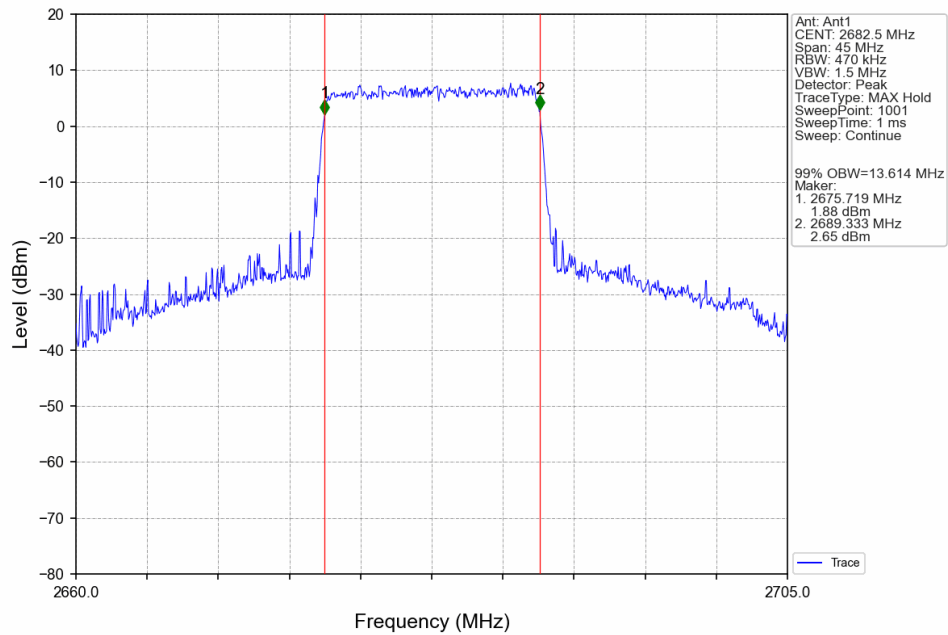


Band41_15MHz_QPSK_MCH_2593MHz_RB_75_0_NTNV

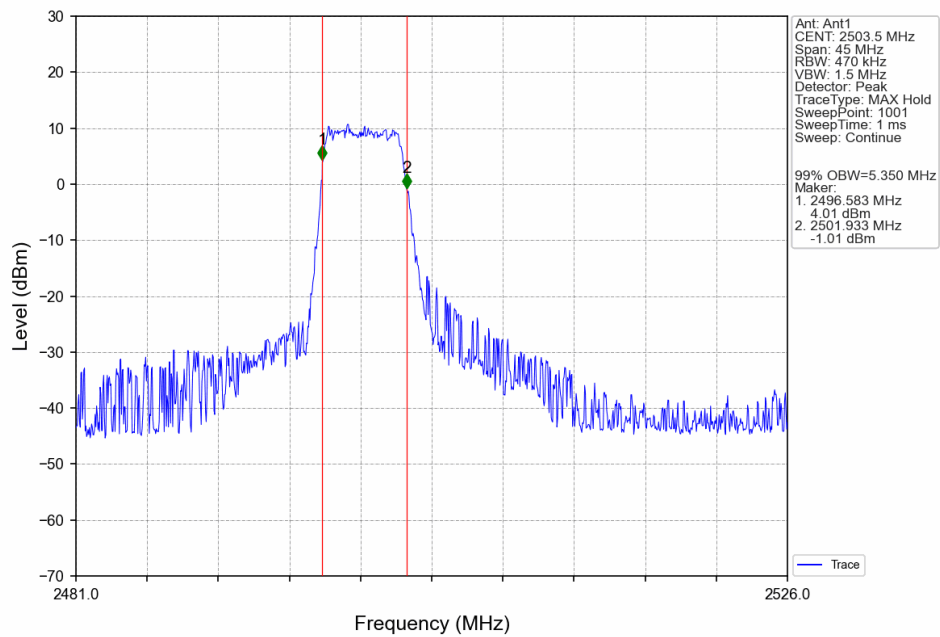




Band41_15MHz_QPSK_HCH_2682.5MHz_RB_75_0_NTNV

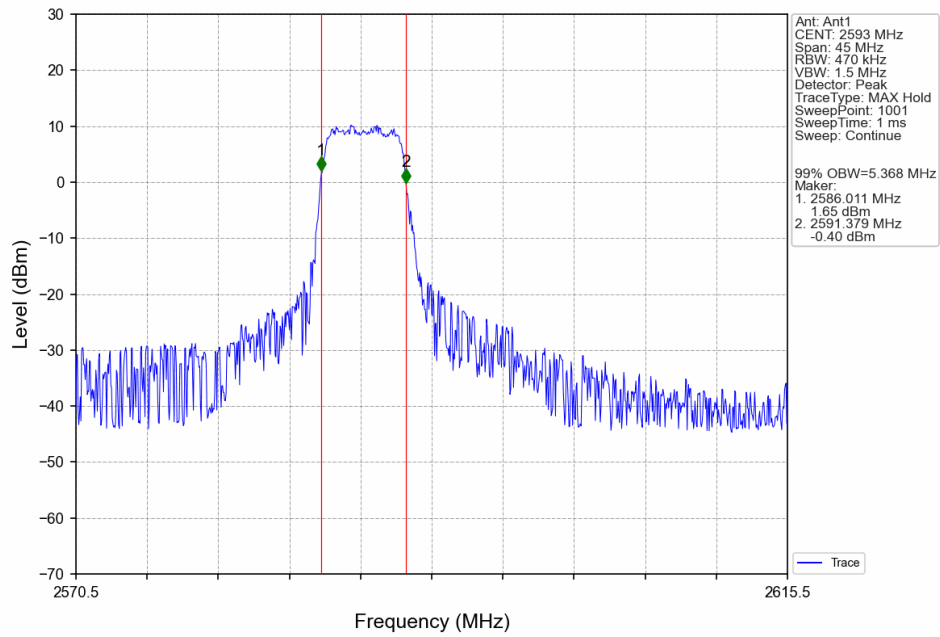


Band41_15MHz_16QAM_LCH_2503.5MHz_RB_27_0_NTNV

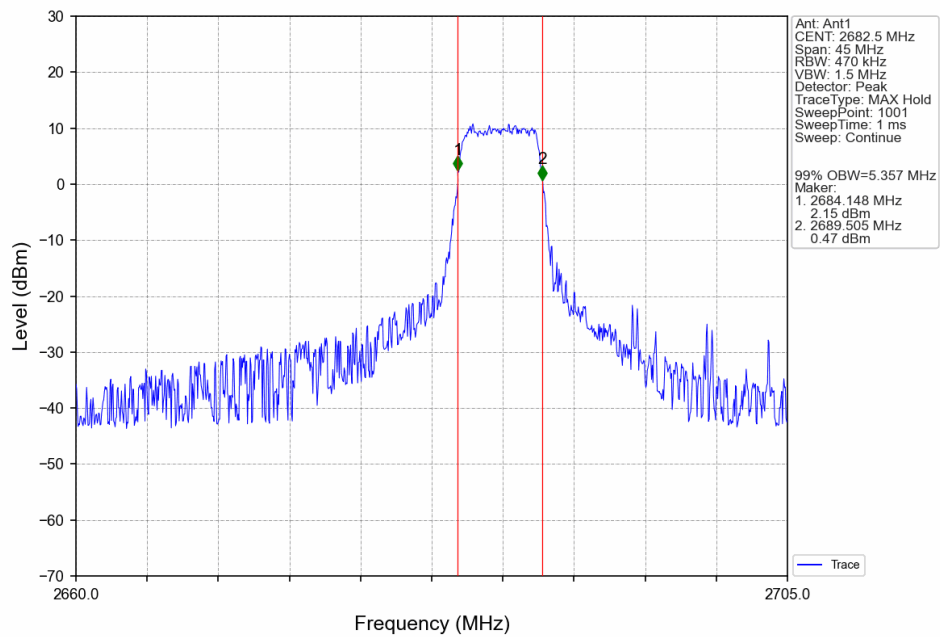




Band41_15MHz_16QAM_MCH_2593MHz_RB_27_0_NTNV

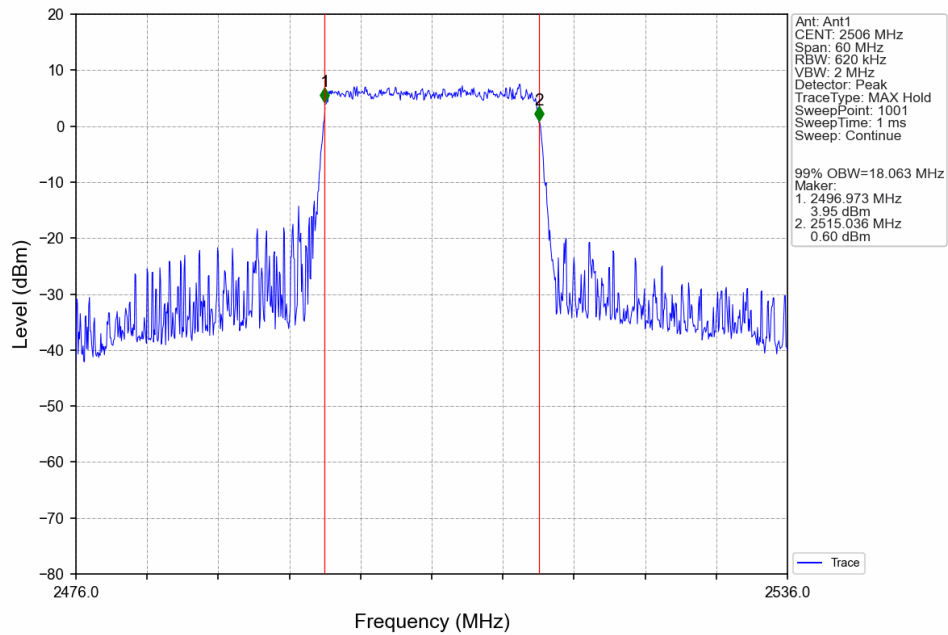


Band41_15MHz_16QAM_HCH_2682.5MHz_RB_27_48_NTNV

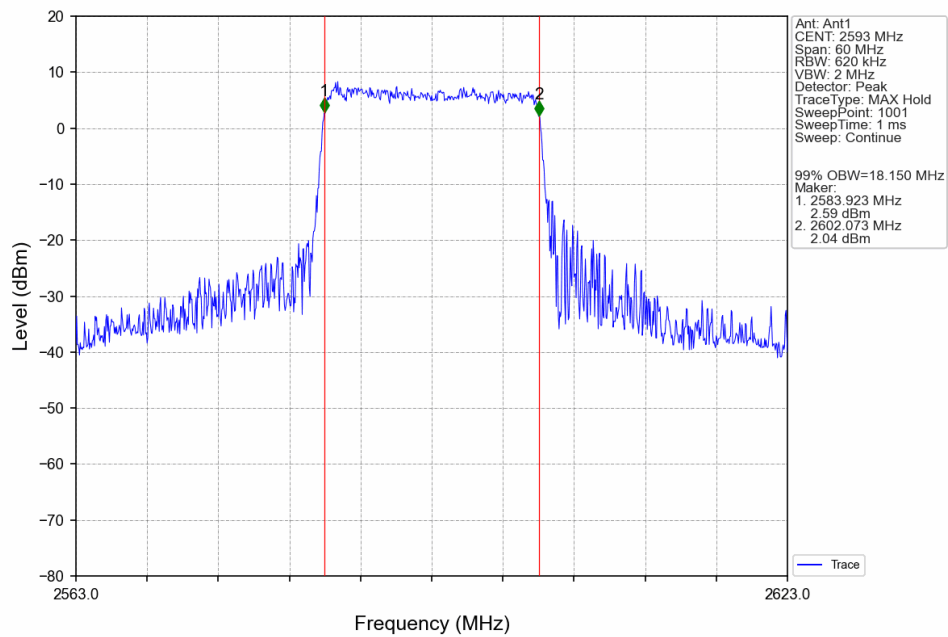




Band41_20MHz_QPSK_LCH_2506MHz_RB_100_0_NTNV

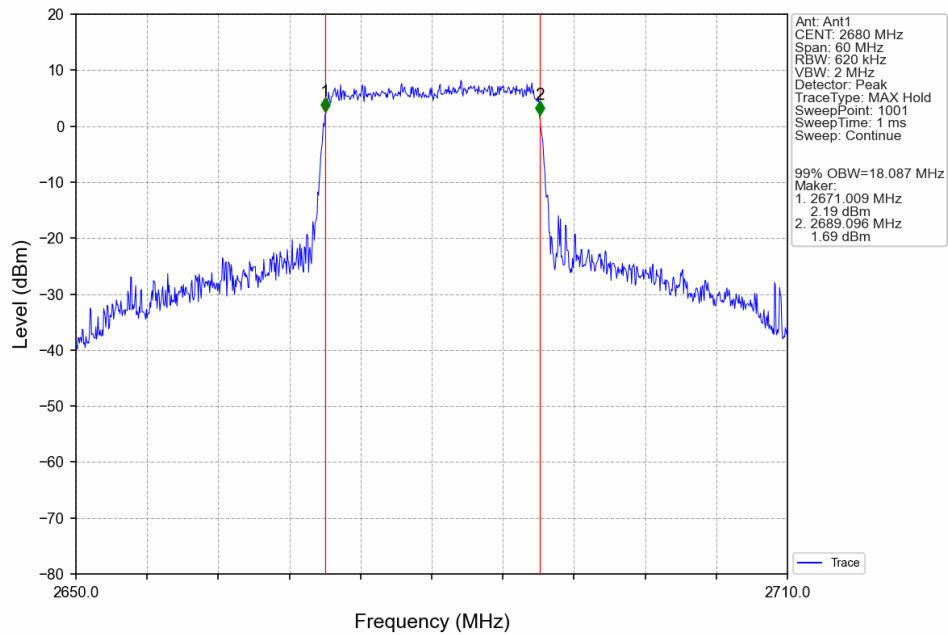


Band41_20MHz_QPSK_MCH_2593MHz_RB_100_0_NTNV

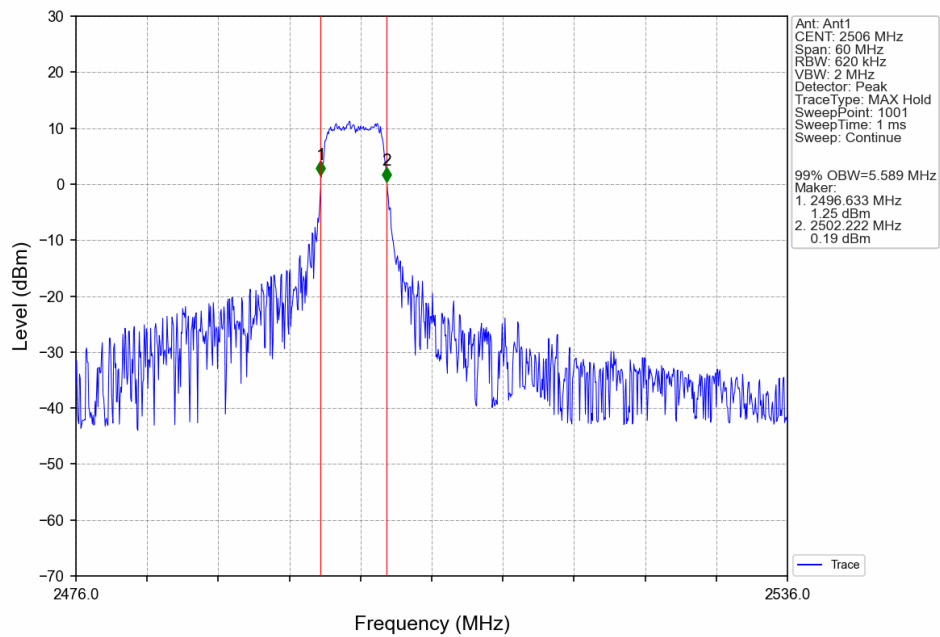




Band41_20MHz_QPSK_HCH_2680MHz_RB_100_0_NTNV

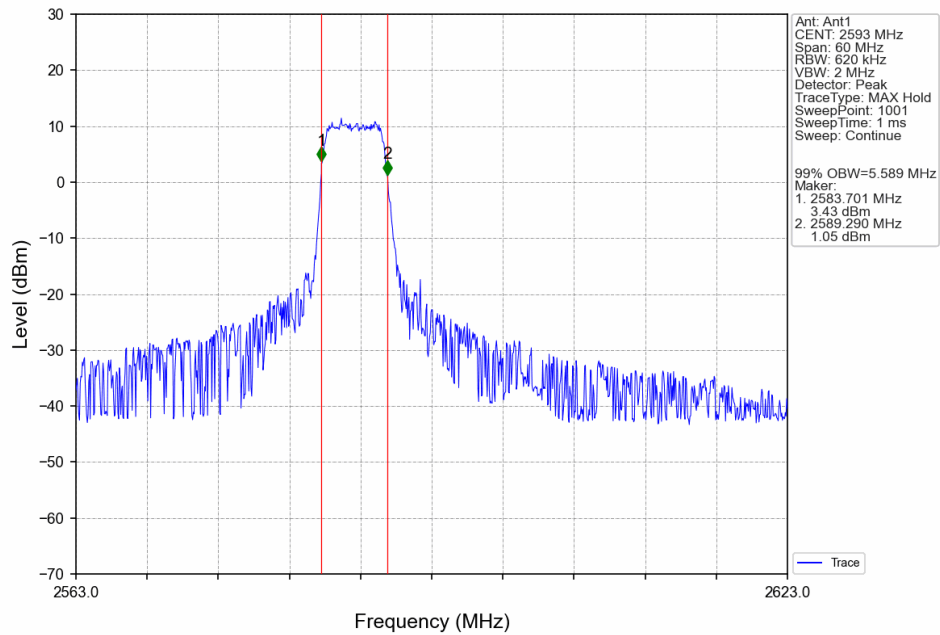


Band41_20MHz_16QAM_LCH_2506MHz_RB_27_0_NTNV

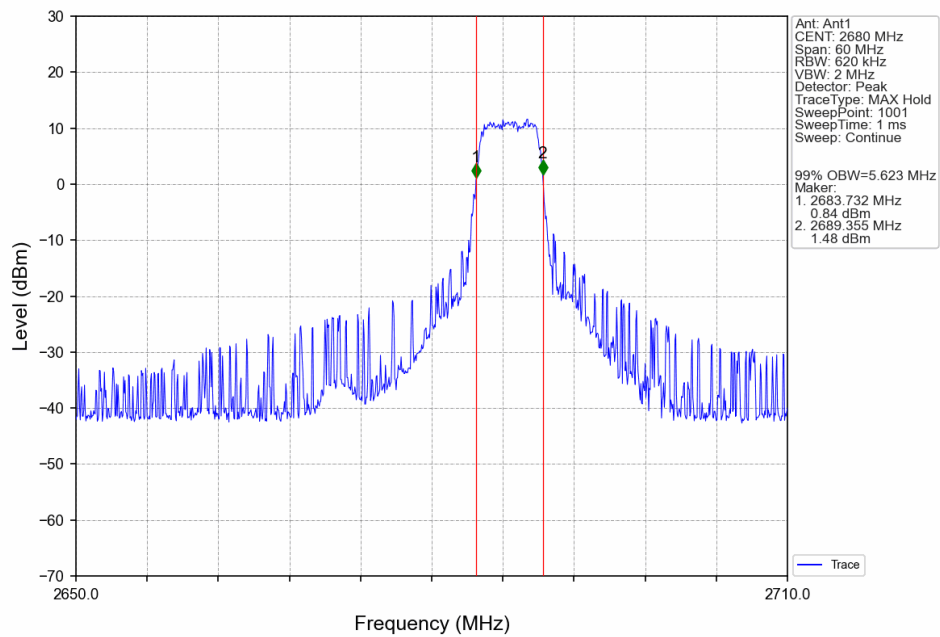




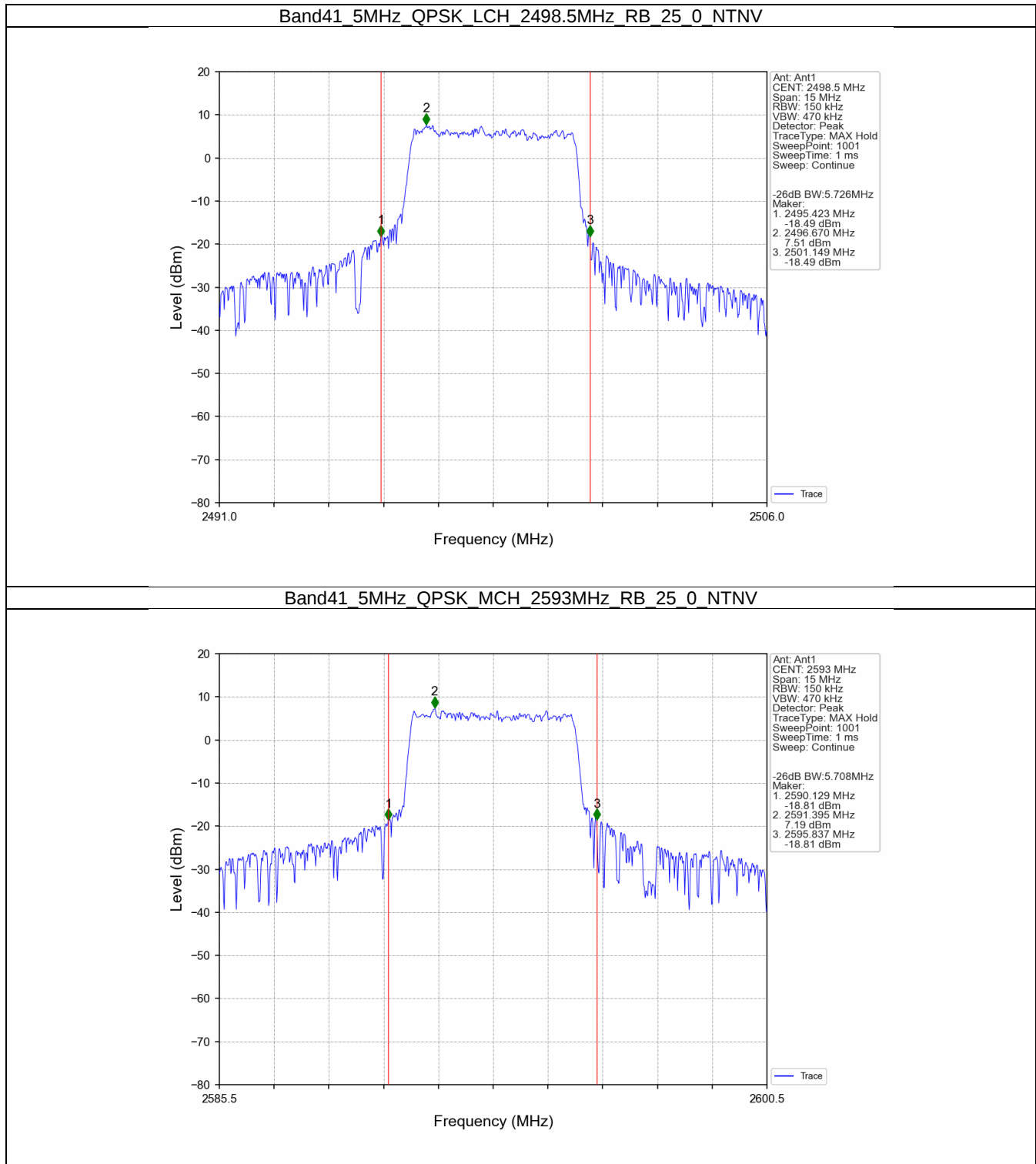
Band41_20MHz_16QAM_MCH_2593MHz_RB_27_0_NTNV



Band41_20MHz_16QAM_HCH_2680MHz_RB_27_73_NTNV

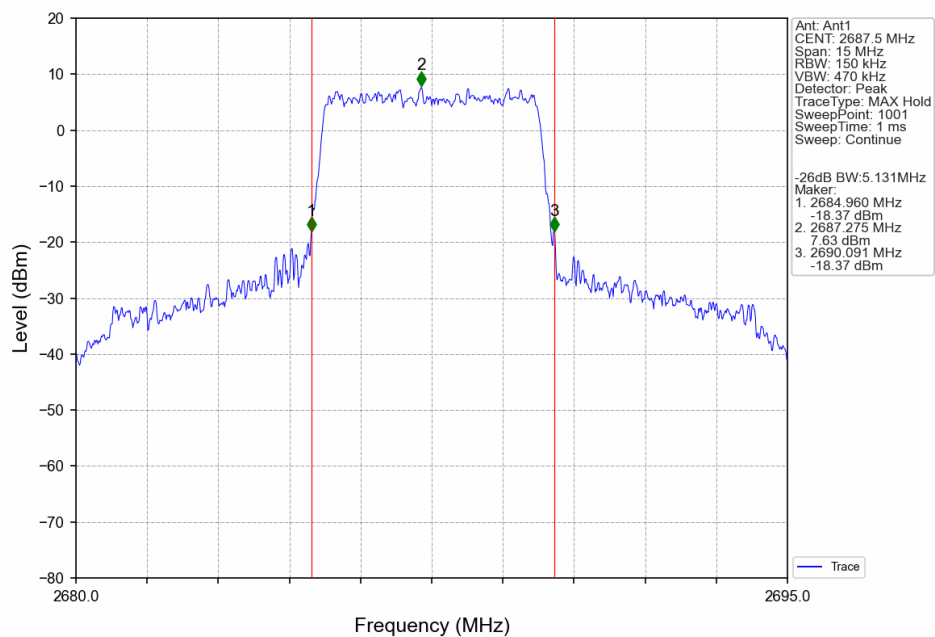


4.2.2 Band41_XDB

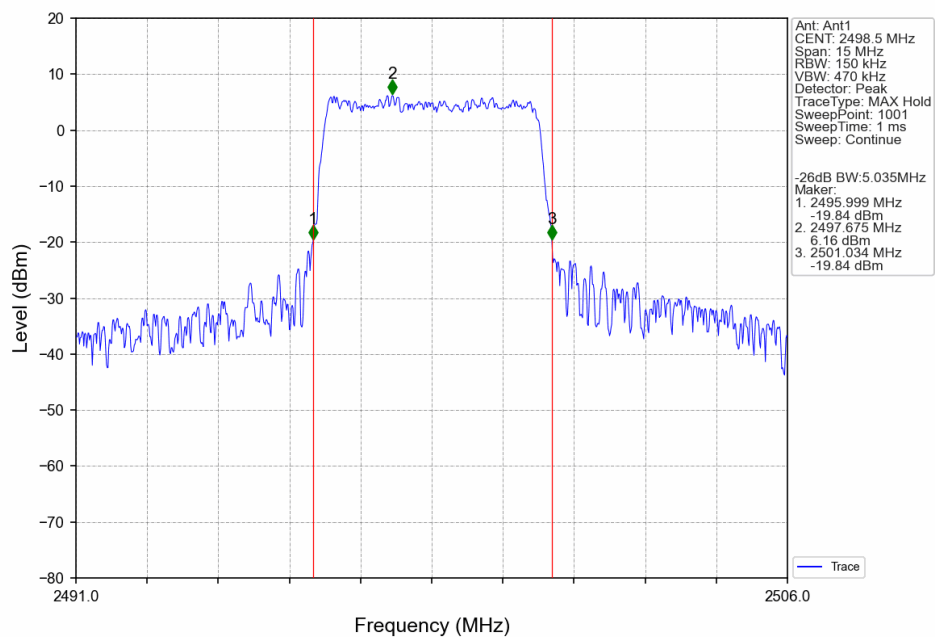




Band41_5MHz_QPSK_HCH_2687.5MHz_RB_25_0_NTNV

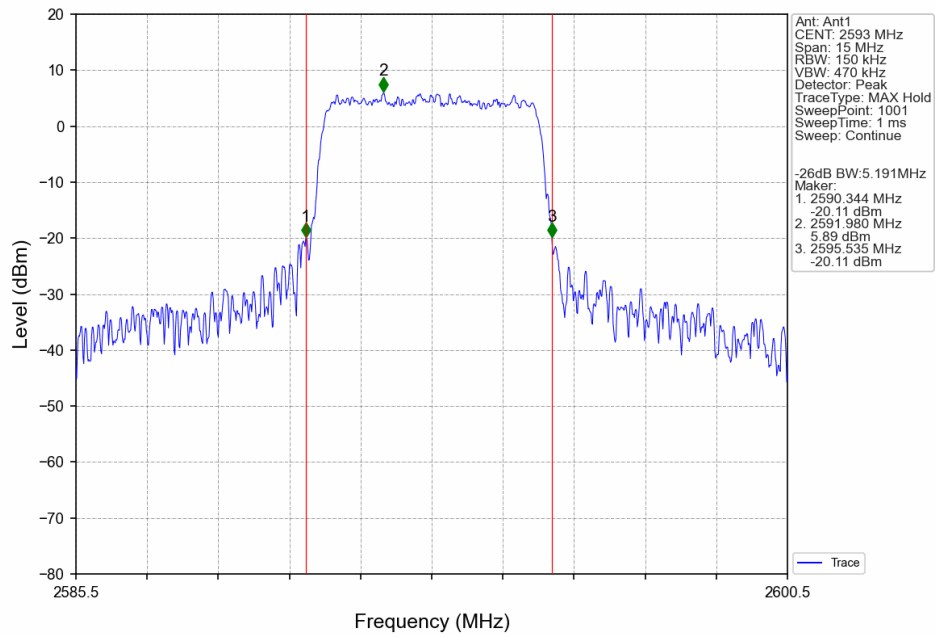


Band41_5MHz_16QAM_LCH_2498.5MHz_RB_25_0_NTNV

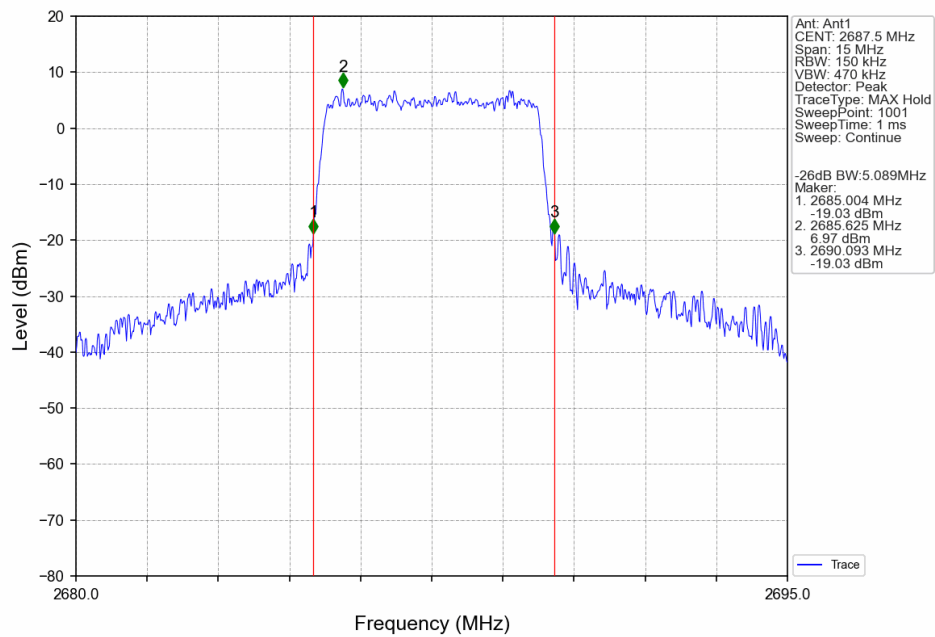




Band41_5MHz_16QAM_MCH_2593MHz_RB_25_0_NTNV

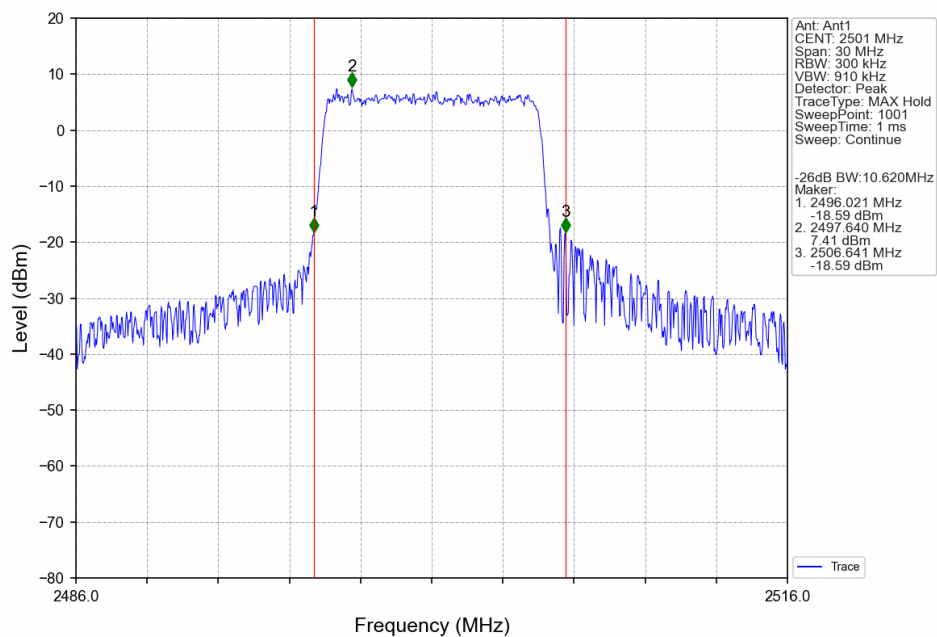


Band41_5MHz_16QAM_HCH_2687.5MHz_RB_25_0_NTNV

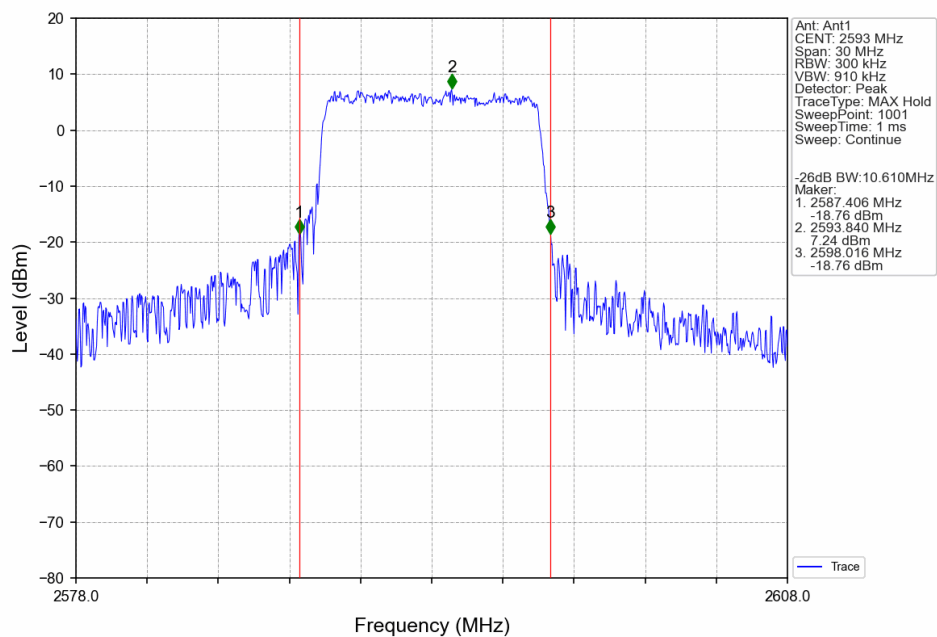




Band41_10MHz_QPSK_LCH_2501MHz_RB_50_0_NTNV

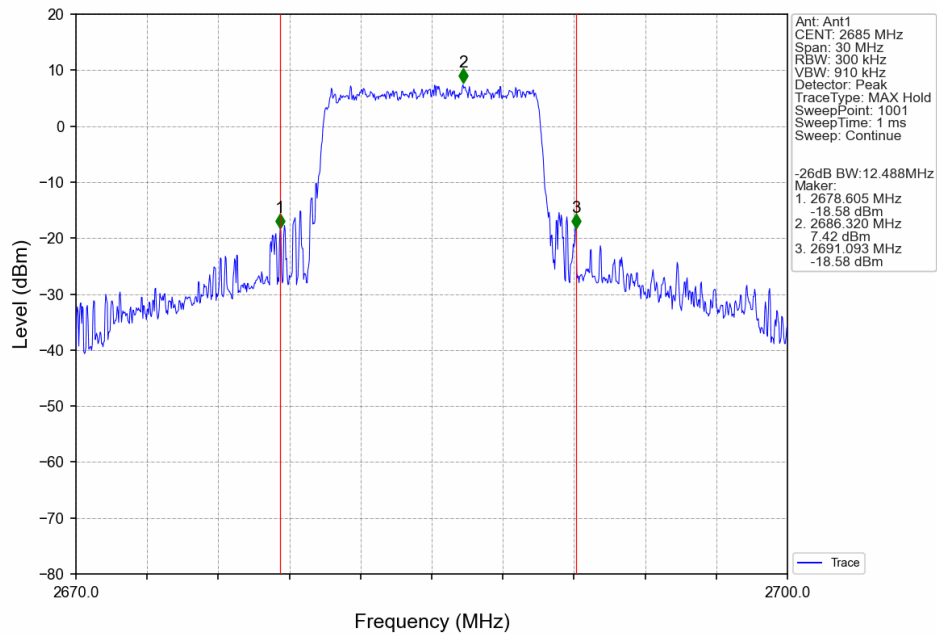


Band41_10MHz_QPSK_MCH_2593MHz_RB_50_0_NTNV

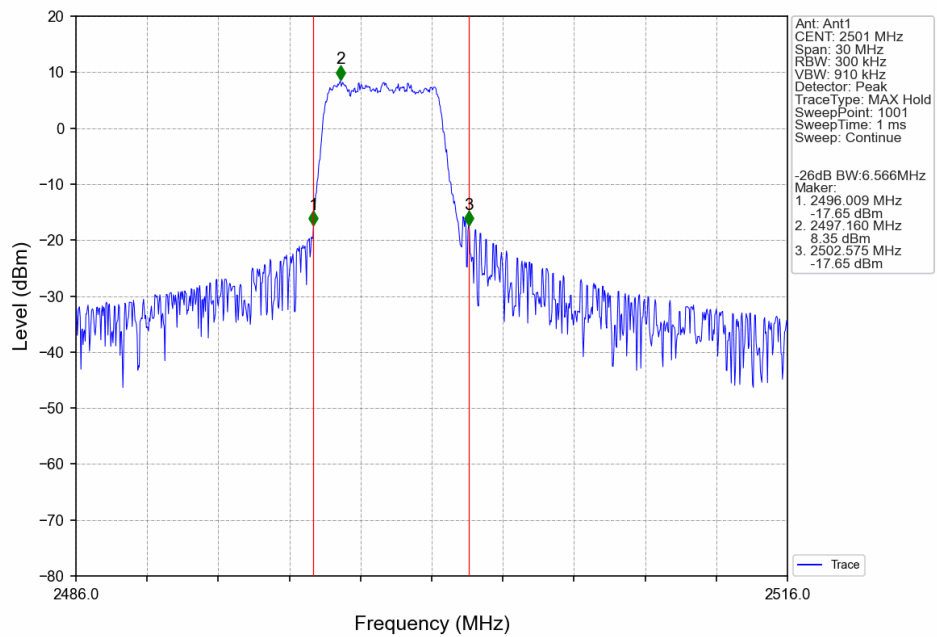




Band41_10MHz_QPSK_HCH_2685MHz_RB_50_0_NTNV

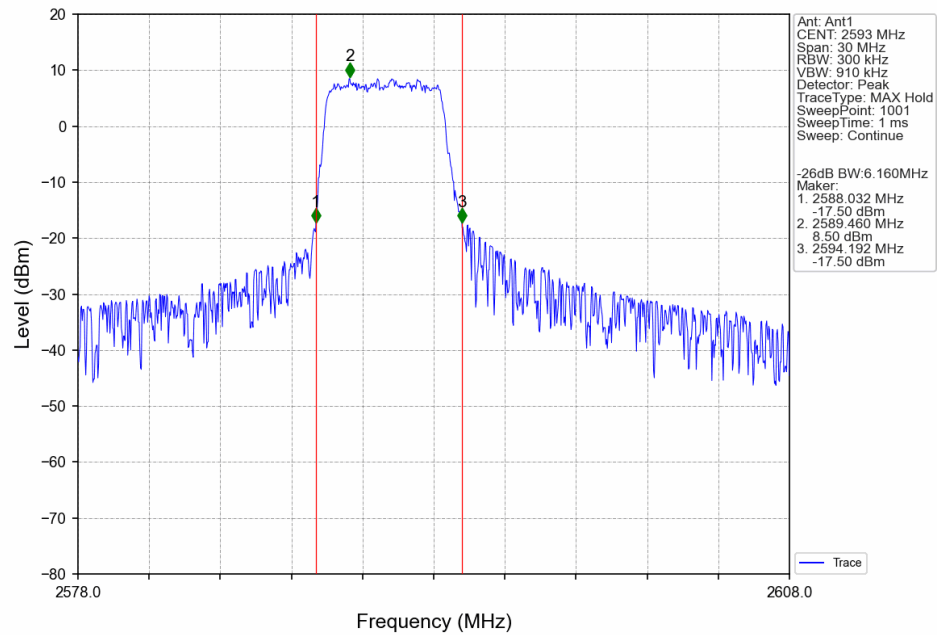


Band41_10MHz_16QAM_LCH_2501MHz_RB_27_0_NTNV

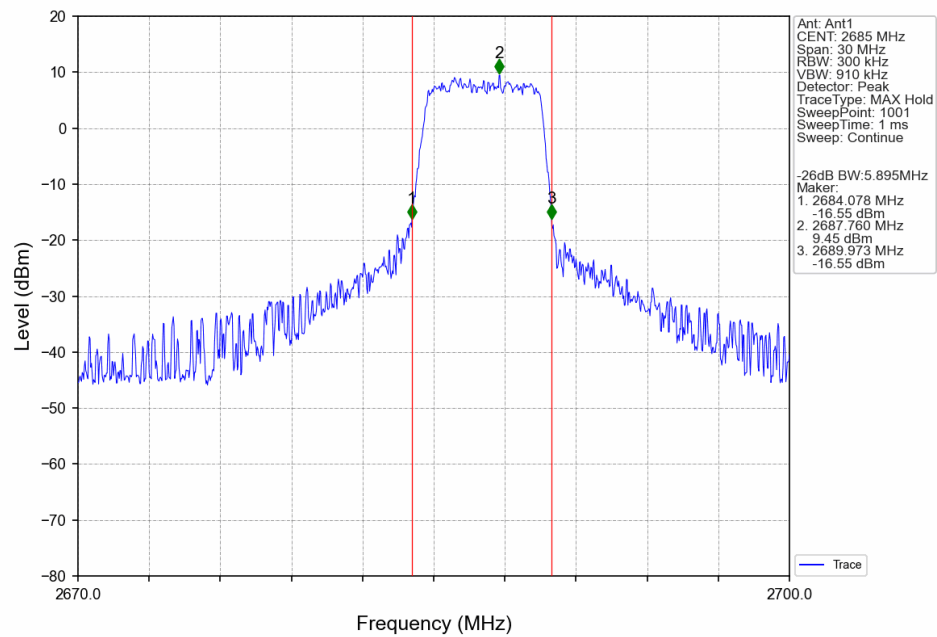




Band41_10MHz_16QAM_MCH_2593MHz_RB_27_0_NTNV

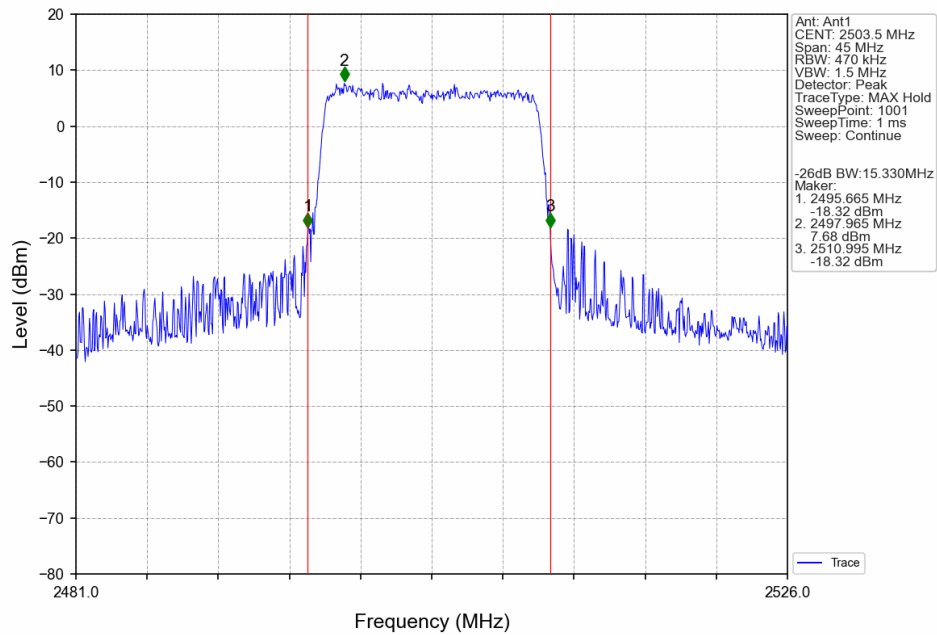


Band41_10MHz_16QAM_HCH_2685MHz_RB_27_23_NTNV

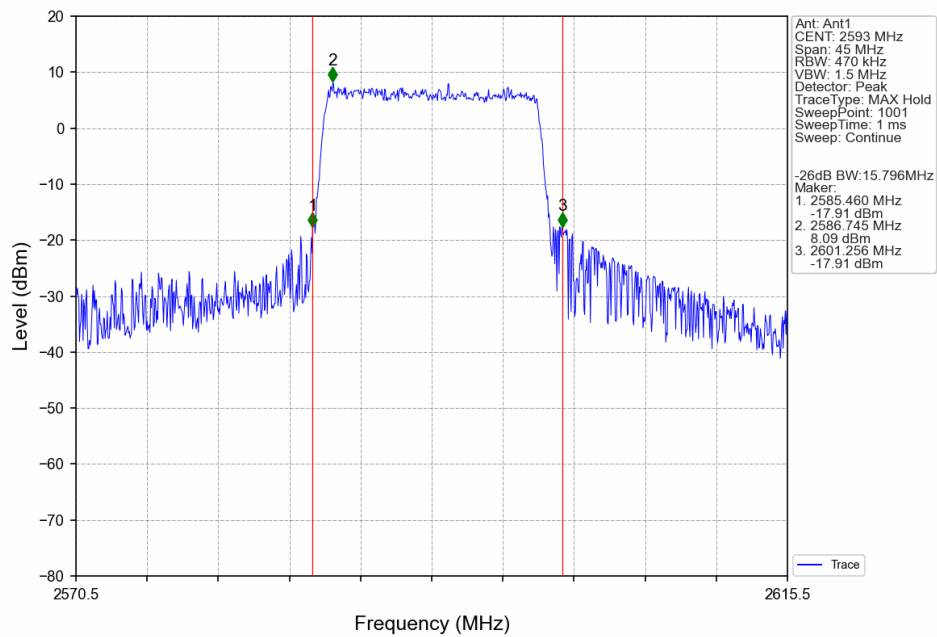




Band41_15MHz_QPSK_LCH_2503.5MHz_RB_75_0_NTNV

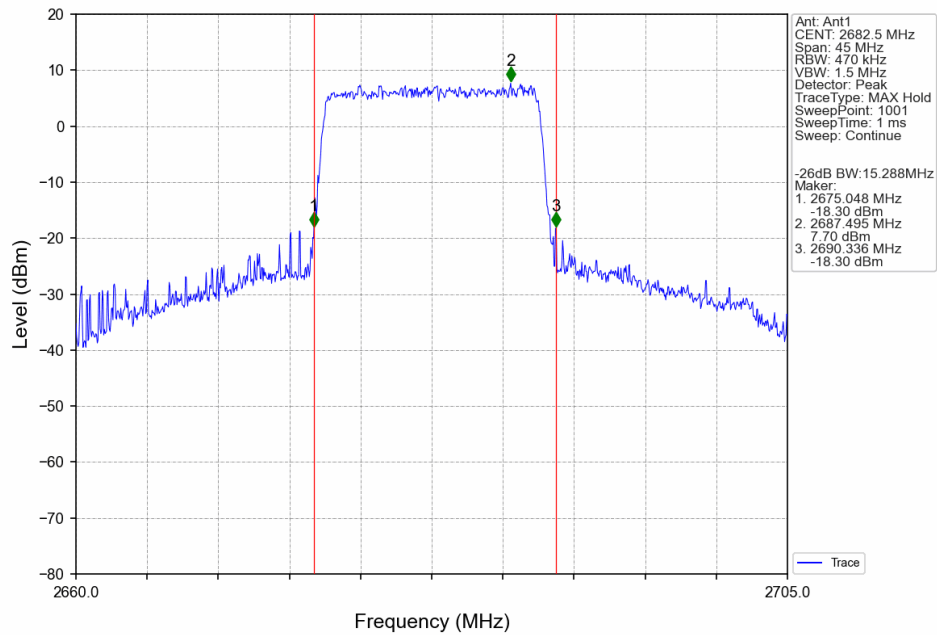


Band41_15MHz_QPSK_MCH_2593MHz_RB_75_0_NTNV

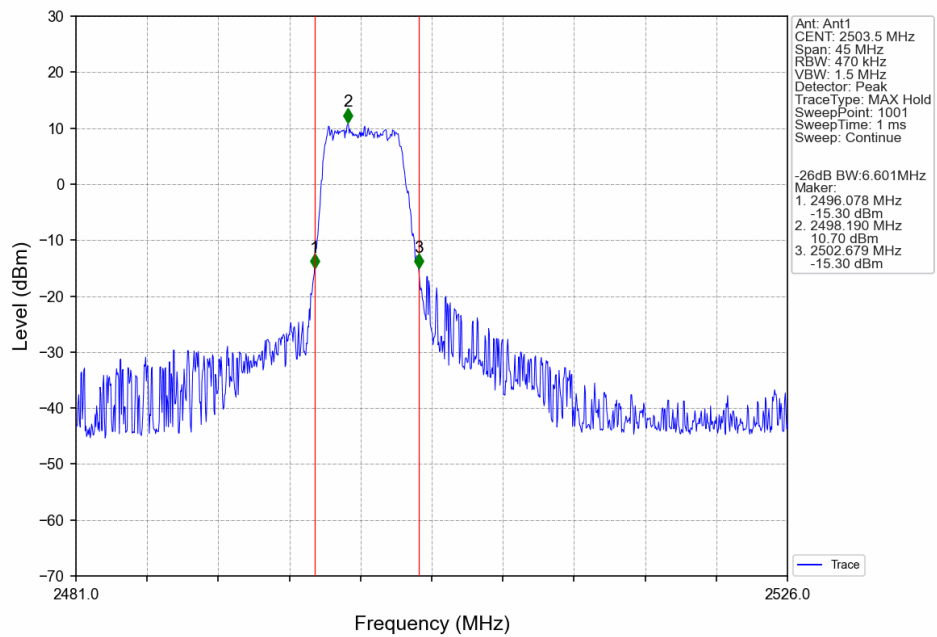




Band41_15MHz_QPSK_HCH_2682.5MHz_RB_75_0_NTNV

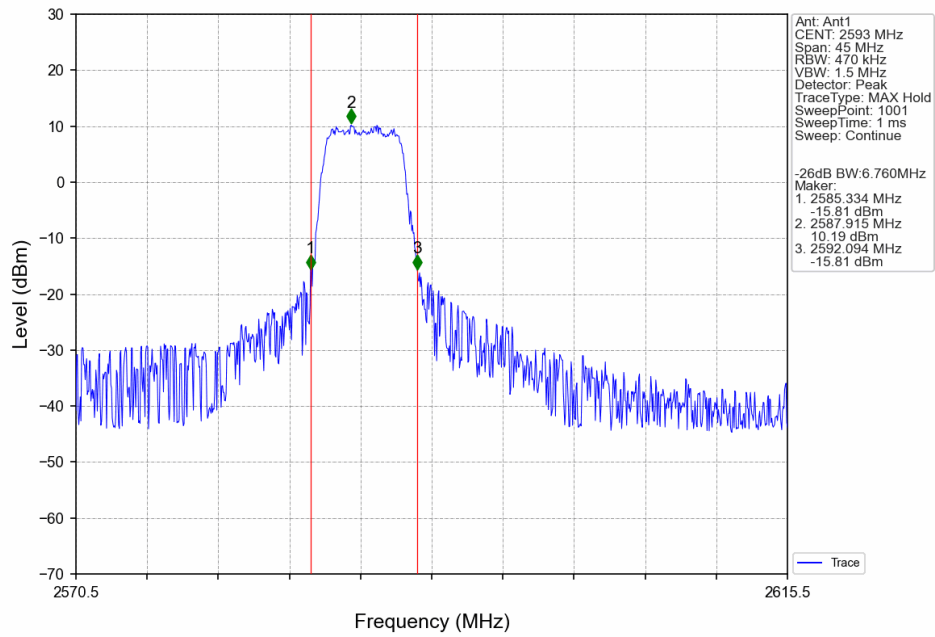


Band41_15MHz_16QAM_LCH_2503.5MHz_RB_27_0_NTNV

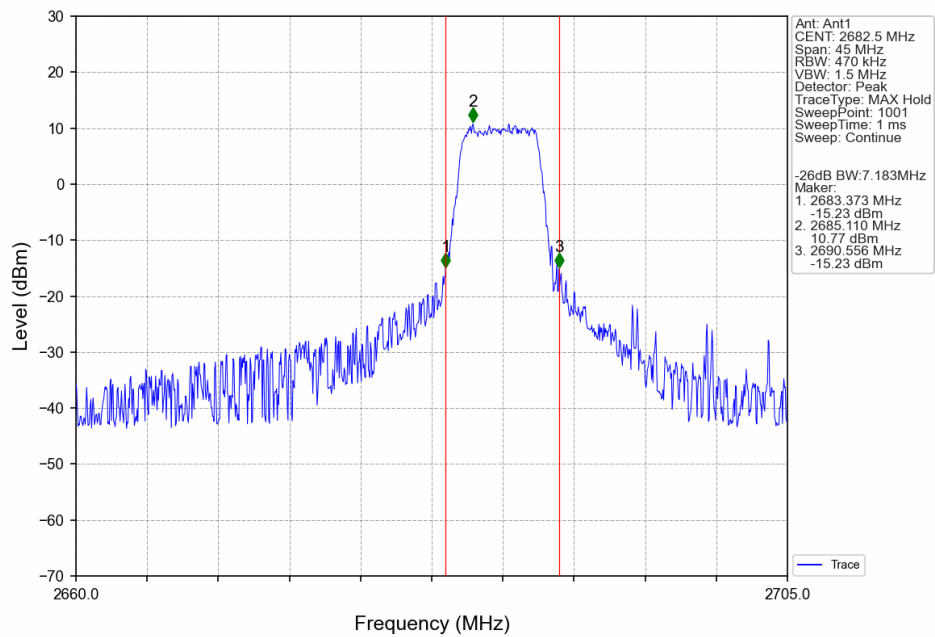




Band41_15MHz_16QAM_MCH_2593MHz_RB_27_0_NTNV

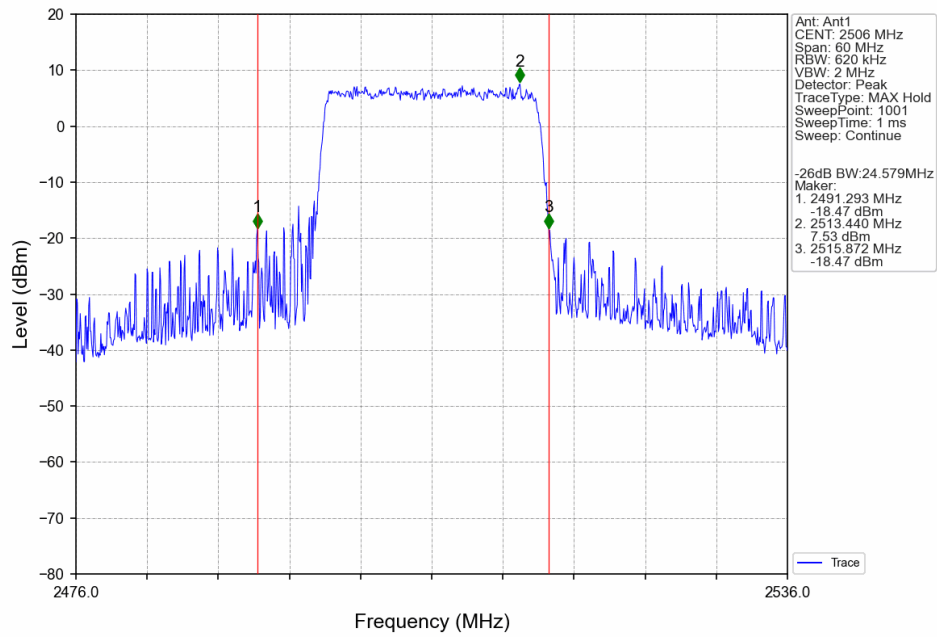


Band41_15MHz_16QAM_HCH_2682.5MHz_RB_27_48_NTNV

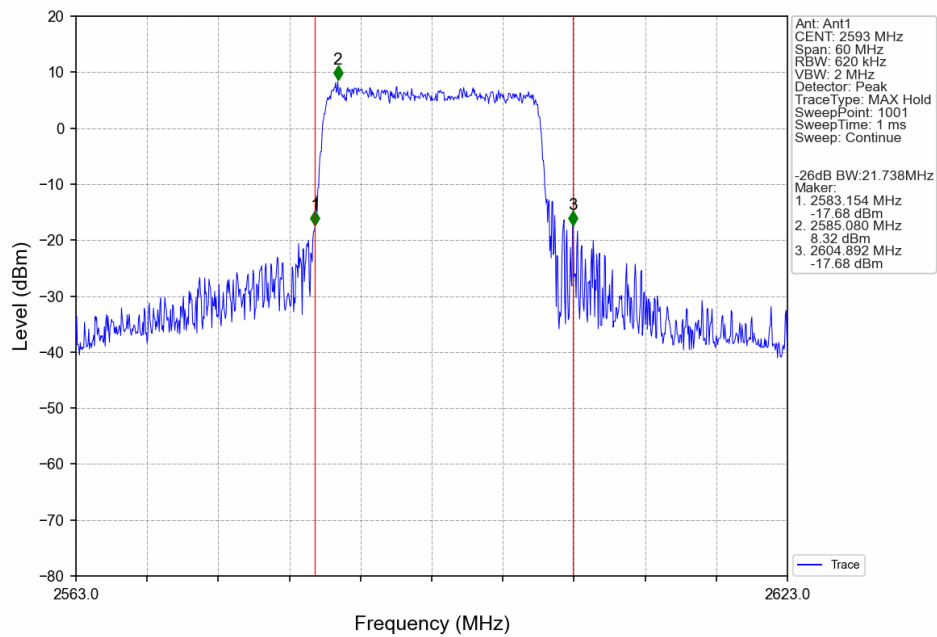




Band41_20MHz_QPSK_LCH_2506MHz_RB_100_0_NTNV

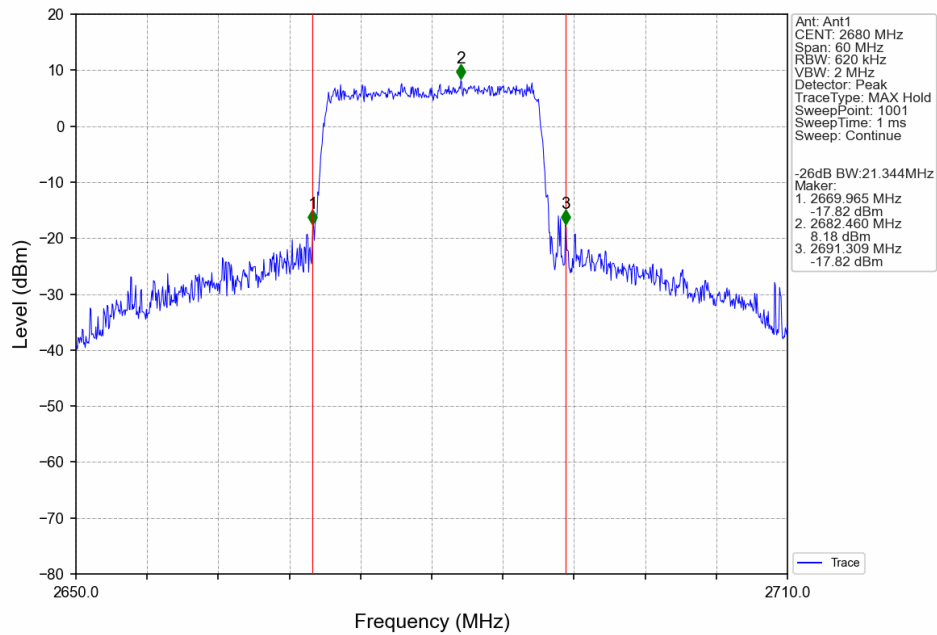


Band41_20MHz_QPSK_MCH_2593MHz_RB_100_0_NTNV

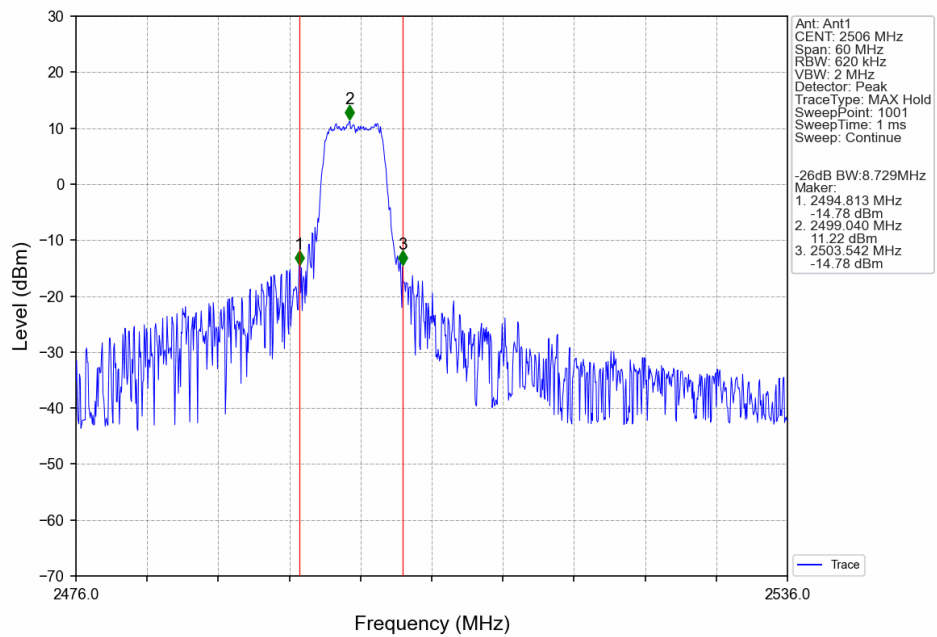




Band41_20MHz_QPSK_HCH_2680MHz_RB_100_0_NTNV

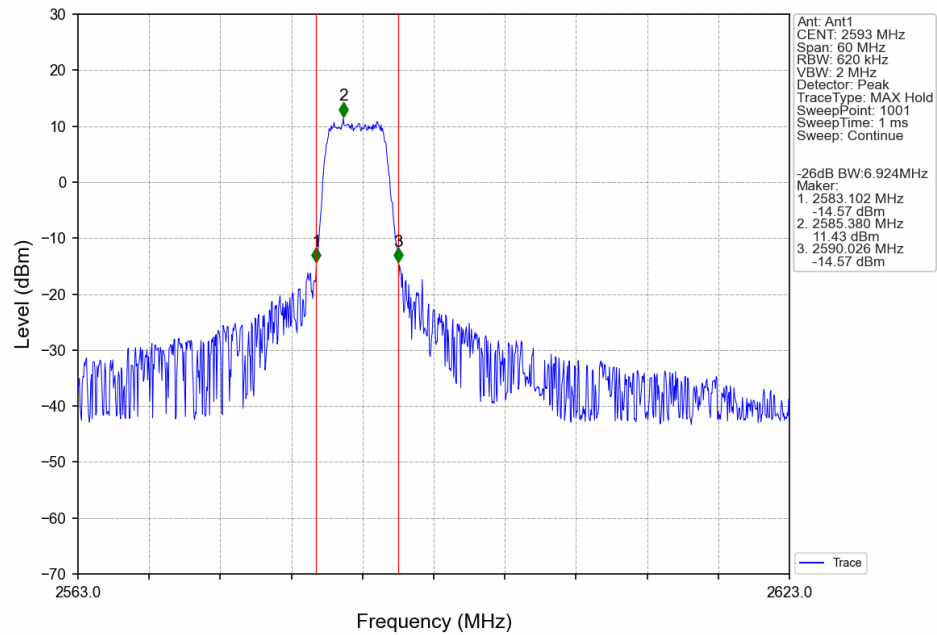


Band41_20MHz_16QAM_LCH_2506MHz_RB_27_0_NTNV

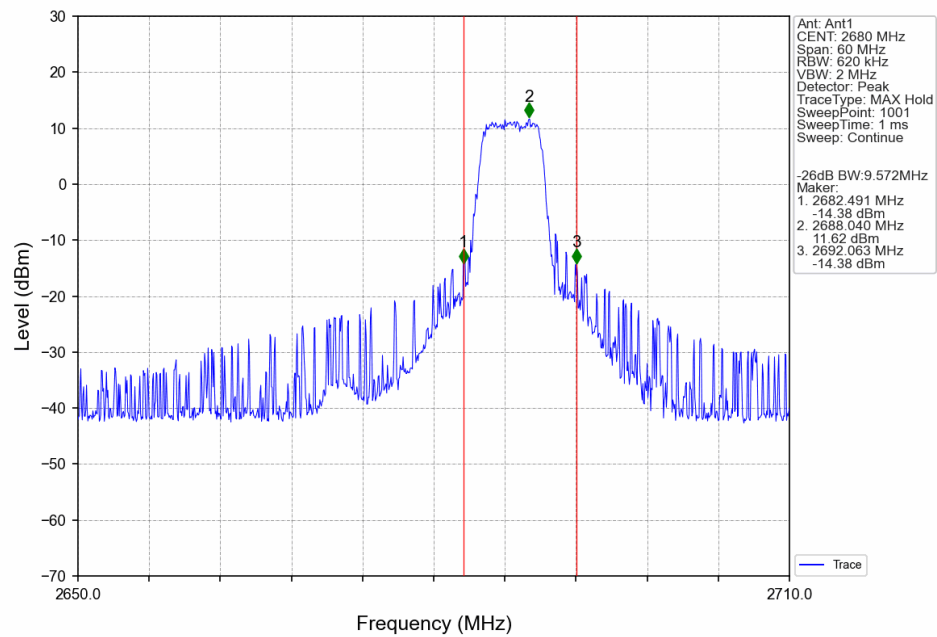




Band41_20MHz_16QAM_MCH_2593MHz_RB_27_0_NTNV



Band41_20MHz_16QAM_HCH_2680MHz_RB_27_73_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	7.81	<=13	Pass
	2593	25	0	7.55	<=13	Pass
	2687.5	25	0	7.27	<=13	Pass
16QAM	2498.5	25	0	8.24	<=13	Pass
	2593	25	0	8.52	<=13	Pass
	2687.5	25	0	7.79	<=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	7.65	<=13	Pass
	2593	50	0	7.70	<=13	Pass
	2685	50	0	7.17	<=13	Pass
16QAM	2501	27	0	8.27	<=13	Pass
	2593	27	0	8.11	<=13	Pass
	2685	27	23	7.68	<=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	7.39	<=13	Pass
	2593	75	0	8.31	<=13	Pass
	2682.5	75	0	7.20	<=13	Pass
16QAM	2503.5	27	0	8.25	<=13	Pass
	2593	27	0	8.31	<=13	Pass
	2682.5	27	48	7.97	<=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	8.26	<=13	Pass
	2593	100	0	7.59	<=13	Pass
	2680	100	0	6.94	<=13	Pass
16QAM	2506	27	0	8.08	<=13	Pass
	2593	27	0	8.50	<=13	Pass
	2680	27	73	7.14	<=13	Pass





5.2 Test Graph

5.2.1 B41_5MHz

