

# Appendix B.7

## LTE Band 41



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### 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	24.09	6.97	31.06	<=33.01	Pass
			13	24.15	6.97	31.12	<=33.01	Pass
			24	24.08	6.97	31.05	<=33.01	Pass
		12	0	23.09	6.97	30.06	<=33.01	Pass
			6	23.11	6.97	30.08	<=33.01	Pass
			13	23.14	6.97	30.11	<=33.01	Pass
		25	0	23.11	6.97	30.08	<=33.01	Pass
	2593	1	0	23.95	6.97	30.92	<=33.01	Pass
			13	24.04	6.97	31.01	<=33.01	Pass
			24	23.99	6.97	30.96	<=33.01	Pass
		12	0	22.97	6.97	29.94	<=33.01	Pass
			6	22.99	6.97	29.96	<=33.01	Pass
			13	22.97	6.97	29.94	<=33.01	Pass
		25	0	22.96	6.97	29.93	<=33.01	Pass
	2687.5	1	0	23.63	6.97	30.6	<=33.01	Pass
			13	23.72	6.97	30.69	<=33.01	Pass
			24	23.58	6.97	30.55	<=33.01	Pass
		12	0	22.60	6.97	29.57	<=33.01	Pass
			6	22.69	6.97	29.66	<=33.01	Pass
			13	22.69	6.97	29.66	<=33.01	Pass
		25	0	22.69	6.97	29.66	<=33.01	Pass
16QAM	2498.5	1	0	23.13	6.97	30.1	<=33.01	Pass
			13	23.15	6.97	30.12	<=33.01	Pass
			24	23.21	6.97	30.18	<=33.01	Pass
		12	0	22.24	6.97	29.21	<=33.01	Pass
			6	22.22	6.97	29.19	<=33.01	Pass
			13	22.26	6.97	29.23	<=33.01	Pass
		25	0	22.12	6.97	29.09	<=33.01	Pass



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	2593	1	0	23.04	6.97	30.01	<=33.01	Pass
			13	23.06	6.97	30.03	<=33.01	Pass
			24	23.01	6.97	29.98	<=33.01	Pass
		12	0	21.89	6.97	28.86	<=33.01	Pass
			6	21.99	6.97	28.96	<=33.01	Pass
			13	21.99	6.97	28.96	<=33.01	Pass
		25	0	21.97	6.97	28.94	<=33.01	Pass
	2687.5	1	0	22.50	6.97	29.47	<=33.01	Pass
			13	22.67	6.97	29.64	<=33.01	Pass
			24	22.64	6.97	29.61	<=33.01	Pass
		12	0	21.61	6.97	28.58	<=33.01	Pass
			6	21.63	6.97	28.6	<=33.01	Pass
			13	21.54	6.97	28.51	<=33.01	Pass
		25	0	21.65	6.97	28.62	<=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	24.07	6.97	31.04	<=33.01	Pass
			25	24.13	6.97	31.1	<=33.01	Pass
			49	24.12	6.97	31.09	<=33.01	Pass
		25	0	23.16	6.97	30.13	<=33.01	Pass
			13	23.14	6.97	30.11	<=33.01	Pass
			25	23.13	6.97	30.1	<=33.01	Pass
		50	0	23.16	6.97	30.13	<=33.01	Pass
	2593	1	0	24.06	6.97	31.03	<=33.01	Pass
			25	24.05	6.97	31.02	<=33.01	Pass
			49	23.93	6.97	30.9	<=33.01	Pass
		25	0	22.96	6.97	29.93	<=33.01	Pass
			13	22.98	6.97	29.95	<=33.01	Pass
			25	23.00	6.97	29.97	<=33.01	Pass
		50	0	22.96	6.97	29.93	<=33.01	Pass
	2685	1	0	23.24	6.97	30.21	<=33.01	Pass
			25	23.58	6.97	30.55	<=33.01	Pass
			49	23.33	6.97	30.3	<=33.01	Pass



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		25	0	22.49	6.97	29.46	<=33.01	Pass
			13	22.68	6.97	29.65	<=33.01	Pass
			25	22.60	6.97	29.57	<=33.01	Pass
		50	0	22.56	6.97	29.53	<=33.01	Pass
16QAM	2501	1	0	23.15	6.97	30.12	<=33.01	Pass
			25	23.16	6.97	30.13	<=33.01	Pass
			49	23.15	6.97	30.12	<=33.01	Pass
		25	0	22.12	6.97	29.09	<=33.01	Pass
			13	22.13	6.97	29.1	<=33.01	Pass
			25	22.12	6.97	29.09	<=33.01	Pass
		50	0	22.16	6.97	29.13	<=33.01	Pass
	2593	1	0	23.10	6.97	30.07	<=33.01	Pass
			25	23.02	6.97	29.99	<=33.01	Pass
			49	22.91	6.97	29.88	<=33.01	Pass
		25	0	21.97	6.97	28.94	<=33.01	Pass
			13	21.98	6.97	28.95	<=33.01	Pass
			25	22.03	6.97	29	<=33.01	Pass
		50	0	21.97	6.97	28.94	<=33.01	Pass
	2685	1	0	22.32	6.97	29.29	<=33.01	Pass
			25	22.59	6.97	29.56	<=33.01	Pass
			49	22.32	6.97	29.29	<=33.01	Pass
		25	0	21.49	6.97	28.46	<=33.01	Pass
			13	21.64	6.97	28.61	<=33.01	Pass
			25	21.56	6.97	28.53	<=33.01	Pass
		50	0	21.55	6.97	28.52	<=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	23.84	6.97	30.81	<=33.01	Pass
			38	23.86	6.97	30.83	<=33.01	Pass
			74	23.83	6.97	30.8	<=33.01	Pass
		36	0	22.90	6.97	29.87	<=33.01	Pass
			18	23.01	6.97	29.98	<=33.01	Pass
			39	22.96	6.97	29.93	<=33.01	Pass



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	2593	75	0	22.97	6.97	29.94	<=33.01	Pass
		1	0	23.90	6.97	30.87	<=33.01	Pass
			38	23.80	6.97	30.77	<=33.01	Pass
			74	23.72	6.97	30.69	<=33.01	Pass
		36	0	22.87	6.97	29.84	<=33.01	Pass
			18	22.82	6.97	29.79	<=33.01	Pass
			39	22.86	6.97	29.83	<=33.01	Pass
		75	0	22.81	6.97	29.78	<=33.01	Pass
	2682.5	1	0	23.18	6.97	30.15	<=33.01	Pass
			38	23.49	6.97	30.46	<=33.01	Pass
			74	23.37	6.97	30.34	<=33.01	Pass
		36	0	22.31	6.97	29.28	<=33.01	Pass
			18	22.41	6.97	29.38	<=33.01	Pass
			39	22.49	6.97	29.46	<=33.01	Pass
		75	0	22.37	6.97	29.34	<=33.01	Pass
16QAM	2503.5	1	0	22.99	6.97	29.96	<=33.01	Pass
			38	22.97	6.97	29.94	<=33.01	Pass
			74	22.92	6.97	29.89	<=33.01	Pass
		36	0	21.88	6.97	28.85	<=33.01	Pass
			18	21.97	6.97	28.94	<=33.01	Pass
			39	21.96	6.97	28.93	<=33.01	Pass
		75	0	21.99	6.97	28.96	<=33.01	Pass
	2593	1	0	22.91	6.97	29.88	<=33.01	Pass
			38	22.80	6.97	29.77	<=33.01	Pass
			74	22.78	6.97	29.75	<=33.01	Pass
		36	0	21.85	6.97	28.82	<=33.01	Pass
			18	21.80	6.97	28.77	<=33.01	Pass
			39	21.84	6.97	28.81	<=33.01	Pass
		75	0	21.81	6.97	28.78	<=33.01	Pass
	2682.5	1	0	22.10	6.97	29.07	<=33.01	Pass
			38	22.38	6.97	29.35	<=33.01	Pass
			74	22.42	6.97	29.39	<=33.01	Pass
		36	0	21.31	6.97	28.28	<=33.01	Pass
			18	21.42	6.97	28.39	<=33.01	Pass
			39	21.49	6.97	28.46	<=33.01	Pass
		75	0	21.38	6.97	28.35	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain



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### 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	23.85	6.97	30.82	<=33.01	Pass
			50	23.82	6.97	30.79	<=33.01	Pass
			99	23.86	6.97	30.83	<=33.01	Pass
		50	0	23.03	6.97	30	<=33.01	Pass
			25	23.03	6.97	30	<=33.01	Pass
			50	22.98	6.97	29.95	<=33.01	Pass
		100	0	23.02	6.97	29.99	<=33.01	Pass
	2593	1	0	23.91	6.97	30.88	<=33.01	Pass
			50	23.77	6.97	30.74	<=33.01	Pass
			99	23.69	6.97	30.66	<=33.01	Pass
		50	0	22.88	6.97	29.85	<=33.01	Pass
			25	22.84	6.97	29.81	<=33.01	Pass
			50	22.84	6.97	29.81	<=33.01	Pass
		100	0	22.83	6.97	29.8	<=33.01	Pass
	2680	1	0	23.05	6.97	30.02	<=33.01	Pass
			50	23.47	6.97	30.44	<=33.01	Pass
			99	23.36	6.97	30.33	<=33.01	Pass
		50	0	22.27	6.97	29.24	<=33.01	Pass
			25	22.39	6.97	29.36	<=33.01	Pass
			50	22.44	6.97	29.41	<=33.01	Pass
		100	0	22.33	6.97	29.3	<=33.01	Pass
16QAM	2506	1	0	23.02	6.97	29.99	<=33.01	Pass
			50	22.89	6.97	29.86	<=33.01	Pass
			99	22.83	6.97	29.8	<=33.01	Pass
		50	0	22.04	6.97	29.01	<=33.01	Pass
			25	22.02	6.97	28.99	<=33.01	Pass
			50	22.00	6.97	28.97	<=33.01	Pass
		100	0	22.02	6.97	28.99	<=33.01	Pass
	2593	1	0	22.92	6.97	29.89	<=33.01	Pass
			50	22.87	6.97	29.84	<=33.01	Pass
			99	22.70	6.97	29.67	<=33.01	Pass
		50	0	21.92	6.97	28.89	<=33.01	Pass
			25	21.88	6.97	28.85	<=33.01	Pass



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			50	21.83	6.97	28.8	<=33.01	Pass
		100	0	21.84	6.97	28.81	<=33.01	Pass
	2680	1	0	22.10	6.97	29.07	<=33.01	Pass
			50	22.61	6.97	29.58	<=33.01	Pass
			99	22.57	6.97	29.54	<=33.01	Pass
	50		0	21.24	6.97	28.21	<=33.01	Pass
			25	21.41	6.97	28.38	<=33.01	Pass
			50	21.50	6.97	28.47	<=33.01	Pass
	100		0	21.32	6.97	28.29	<=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	-1.674	-0.0007	-2.5 to 2.5	Pass
					3.85	-0.072	0.0000	-2.5 to 2.5	Pass
					4.43	-1.831	-0.0007	-2.5 to 2.5	Pass
				-30	3.85	-1.073	-0.0004	-2.5 to 2.5	Pass
				-20	3.85	-2.861	-0.0011	-2.5 to 2.5	Pass
				-10	3.85	-2.718	-0.0011	-2.5 to 2.5	Pass
				0	3.85	-2.031	-0.0008	-2.5 to 2.5	Pass
				10	3.85	-3.405	-0.0014	-2.5 to 2.5	Pass
				30	3.85	-0.672	-0.0003	-2.5 to 2.5	Pass
				40	3.85	-0.358	-0.0001	-2.5 to 2.5	Pass
				50	3.85	0.987	0.0004	-2.5 to 2.5	Pass
	2593	25	0	20	3.27	-4.878	-0.0019	-2.5 to 2.5	Pass
					3.85	-0.200	-0.0001	-2.5 to 2.5	Pass
					4.43	-1.044	-0.0004	-2.5 to 2.5	Pass
				-30	3.85	-1.516	-0.0006	-2.5 to 2.5	Pass
				-20	3.85	-3.633	-0.0014	-2.5 to 2.5	Pass
				-10	3.85	-1.330	-0.0005	-2.5 to 2.5	Pass



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				0	3.85	-0.043	0.0000	-2.5 to 2.5	Pass
				10	3.85	-0.143	-0.0001	-2.5 to 2.5	Pass
				30	3.85	0.587	0.0002	-2.5 to 2.5	Pass
				40	3.85	1.216	0.0005	-2.5 to 2.5	Pass
				50	3.85	-1.674	-0.0006	-2.5 to 2.5	Pass
	2687.5	25	0	20	3.27	-3.862	-0.0014	-2.5 to 2.5	Pass
					3.85	-2.818	-0.0010	-2.5 to 2.5	Pass
					4.43	-3.662	-0.0014	-2.5 to 2.5	Pass
				-30	3.85	0.215	0.0001	-2.5 to 2.5	Pass
				-20	3.85	-1.402	-0.0005	-2.5 to 2.5	Pass
				-10	3.85	-2.046	-0.0008	-2.5 to 2.5	Pass
				0	3.85	0.386	0.0001	-2.5 to 2.5	Pass
				10	3.85	-0.329	-0.0001	-2.5 to 2.5	Pass
				30	3.85	-0.587	-0.0002	-2.5 to 2.5	Pass
				40	3.85	0.701	0.0003	-2.5 to 2.5	Pass
				50	3.85	0.229	0.0001	-2.5 to 2.5	Pass
16QAM	2498.5	25	0	20	3.27	-0.944	-0.0004	-2.5 to 2.5	Pass
					3.85	-3.963	-0.0016	-2.5 to 2.5	Pass
					4.43	-2.489	-0.0010	-2.5 to 2.5	Pass
				-30	3.85	-2.046	-0.0008	-2.5 to 2.5	Pass
				-20	3.85	-2.532	-0.0010	-2.5 to 2.5	Pass
				-10	3.85	-0.300	-0.0001	-2.5 to 2.5	Pass
				0	3.85	0.587	0.0002	-2.5 to 2.5	Pass
				10	3.85	-3.977	-0.0016	-2.5 to 2.5	Pass
				30	3.85	-0.744	-0.0003	-2.5 to 2.5	Pass
				40	3.85	-0.858	-0.0003	-2.5 to 2.5	Pass
	2593	25	0	50	3.85	-0.386	-0.0002	-2.5 to 2.5	Pass
				20	3.27	-0.129	0.0000	-2.5 to 2.5	Pass
					3.85	-1.645	-0.0006	-2.5 to 2.5	Pass
					4.43	-2.503	-0.0010	-2.5 to 2.5	Pass
				-30	3.85	-0.329	-0.0001	-2.5 to 2.5	Pass
				-20	3.85	1.059	0.0004	-2.5 to 2.5	Pass
				-10	3.85	-2.360	-0.0009	-2.5 to 2.5	Pass
				0	3.85	-2.160	-0.0008	-2.5 to 2.5	Pass
				10	3.85	-1.774	-0.0007	-2.5 to 2.5	Pass
				30	3.85	0.100	0.0000	-2.5 to 2.5	Pass
				40	3.85	1.802	0.0007	-2.5 to 2.5	Pass



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				50	3.85	0.629	0.0002	-2.5 to 2.5	Pass
					3.27	0.129	0.0000	-2.5 to 2.5	Pass
				20	3.85	-1.473	-0.0005	-2.5 to 2.5	Pass
					4.43	-2.275	-0.0008	-2.5 to 2.5	Pass
				-30	3.85	1.473	0.0005	-2.5 to 2.5	Pass
				-20	3.85	-4.377	-0.0016	-2.5 to 2.5	Pass
				-10	3.85	-0.257	-0.0001	-2.5 to 2.5	Pass
				0	3.85	-2.904	-0.0011	-2.5 to 2.5	Pass
				10	3.85	-2.875	-0.0011	-2.5 to 2.5	Pass
				30	3.85	0.100	0.0000	-2.5 to 2.5	Pass
				40	3.85	-3.204	-0.0012	-2.5 to 2.5	Pass
				50	3.85	0.200	0.0001	-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		3.27	-1.860	-0.0007	-2.5 to 2.5	Pass
				20	3.85	-3.490	-0.0014	-2.5 to 2.5	Pass
					4.43	-4.792	-0.0019	-2.5 to 2.5	Pass
				-30	3.85	-2.475	-0.0010	-2.5 to 2.5	Pass
				-20	3.85	0.358	0.0001	-2.5 to 2.5	Pass
				-10	3.85	-1.431	-0.0006	-2.5 to 2.5	Pass
				0	3.85	-3.204	-0.0013	-2.5 to 2.5	Pass
				10	3.85	-2.131	-0.0009	-2.5 to 2.5	Pass
				30	3.85	0.043	0.0000	-2.5 to 2.5	Pass
				40	3.85	-2.961	-0.0012	-2.5 to 2.5	Pass
				50	3.85	-3.519	-0.0014	-2.5 to 2.5	Pass
	2593	50	0		3.27	-0.200	-0.0001	-2.5 to 2.5	Pass
				20	3.85	-0.973	-0.0004	-2.5 to 2.5	Pass
					4.43	-3.290	-0.0013	-2.5 to 2.5	Pass
				-30	3.85	-0.086	0.0000	-2.5 to 2.5	Pass
				-20	3.85	-1.574	-0.0006	-2.5 to 2.5	Pass
				-10	3.85	-1.445	-0.0006	-2.5 to 2.5	Pass
				0	3.85	-0.615	-0.0002	-2.5 to 2.5	Pass
				10	3.85	0.644	0.0002	-2.5 to 2.5	Pass
				30	3.85	-2.618	-0.0010	-2.5 to 2.5	Pass



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	2685	50	0	40	3.85	-2.089	-0.0008	-2.5 to 2.5	Pass
				50	3.85	-0.029	0.0000	-2.5 to 2.5	Pass
				20	3.27	-0.730	-0.0003	-2.5 to 2.5	Pass
					3.85	-1.259	-0.0005	-2.5 to 2.5	Pass
					4.43	0.157	0.0001	-2.5 to 2.5	Pass
				-30	3.85	0.672	0.0003	-2.5 to 2.5	Pass
				-20	3.85	-0.658	-0.0002	-2.5 to 2.5	Pass
				-10	3.85	-3.304	-0.0012	-2.5 to 2.5	Pass
				0	3.85	-0.257	-0.0001	-2.5 to 2.5	Pass
				10	3.85	-2.446	-0.0009	-2.5 to 2.5	Pass
				30	3.85	-0.715	-0.0003	-2.5 to 2.5	Pass
				40	3.85	-2.346	-0.0009	-2.5 to 2.5	Pass
				50	3.85	-1.359	-0.0005	-2.5 to 2.5	Pass
16QAM	2501	50	0	20	3.27	-4.034	-0.0016	-2.5 to 2.5	Pass
					3.85	-2.475	-0.0010	-2.5 to 2.5	Pass
					4.43	-0.830	-0.0003	-2.5 to 2.5	Pass
				-30	3.85	-3.290	-0.0013	-2.5 to 2.5	Pass
				-20	3.85	-1.473	-0.0006	-2.5 to 2.5	Pass
				-10	3.85	-2.847	-0.0011	-2.5 to 2.5	Pass
				0	3.85	-3.791	-0.0015	-2.5 to 2.5	Pass
				10	3.85	-3.691	-0.0015	-2.5 to 2.5	Pass
				30	3.85	-2.031	-0.0008	-2.5 to 2.5	Pass
				40	3.85	-3.090	-0.0012	-2.5 to 2.5	Pass
				50	3.85	-1.459	-0.0006	-2.5 to 2.5	Pass
	2593	50	0	20	3.27	-2.360	-0.0009	-2.5 to 2.5	Pass
					3.85	-1.044	-0.0004	-2.5 to 2.5	Pass
					4.43	-3.190	-0.0012	-2.5 to 2.5	Pass
				-30	3.85	-1.059	-0.0004	-2.5 to 2.5	Pass
				-20	3.85	-1.259	-0.0005	-2.5 to 2.5	Pass
				-10	3.85	-1.516	-0.0006	-2.5 to 2.5	Pass
				0	3.85	-1.817	-0.0007	-2.5 to 2.5	Pass
				10	3.85	-0.272	-0.0001	-2.5 to 2.5	Pass
				30	3.85	-3.276	-0.0013	-2.5 to 2.5	Pass
				40	3.85	-2.332	-0.0009	-2.5 to 2.5	Pass
				50	3.85	-2.546	-0.0010	-2.5 to 2.5	Pass
	2685	50	0	20	3.27	-0.200	-0.0001	-2.5 to 2.5	Pass
					3.85	-0.601	-0.0002	-2.5 to 2.5	Pass



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					4.43	0.443	0.0002	-2.5 to 2.5	Pass
				-30	3.85	-2.317	-0.0009	-2.5 to 2.5	Pass
				-20	3.85	-2.990	-0.0011	-2.5 to 2.5	Pass
				-10	3.85	-0.715	-0.0003	-2.5 to 2.5	Pass
				0	3.85	-1.330	-0.0005	-2.5 to 2.5	Pass
				10	3.85	-3.247	-0.0012	-2.5 to 2.5	Pass
				30	3.85	-2.418	-0.0009	-2.5 to 2.5	Pass
				40	3.85	-0.544	-0.0002	-2.5 to 2.5	Pass
				50	3.85	-2.117	-0.0008	-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	1.273	0.0005	-2.5 to 2.5	Pass
					3.85	-3.104	-0.0012	-2.5 to 2.5	Pass
					4.43	-3.977	-0.0016	-2.5 to 2.5	Pass
				-30	3.85	-0.858	-0.0003	-2.5 to 2.5	Pass
				-20	3.85	-0.772	-0.0003	-2.5 to 2.5	Pass
				-10	3.85	-2.475	-0.0010	-2.5 to 2.5	Pass
				0	3.85	-3.533	-0.0014	-2.5 to 2.5	Pass
				10	3.85	-2.747	-0.0011	-2.5 to 2.5	Pass
				30	3.85	-3.161	-0.0013	-2.5 to 2.5	Pass
				40	3.85	1.230	0.0005	-2.5 to 2.5	Pass
				50	3.85	-1.631	-0.0007	-2.5 to 2.5	Pass
	2593	75	0	20	3.27	-2.904	-0.0011	-2.5 to 2.5	Pass
					3.85	-1.330	-0.0005	-2.5 to 2.5	Pass
					4.43	-2.189	-0.0008	-2.5 to 2.5	Pass
				-30	3.85	-1.745	-0.0007	-2.5 to 2.5	Pass
				-20	3.85	-0.114	0.0000	-2.5 to 2.5	Pass
				-10	3.85	-1.488	-0.0006	-2.5 to 2.5	Pass
				0	3.85	-2.618	-0.0010	-2.5 to 2.5	Pass
				10	3.85	-2.346	-0.0009	-2.5 to 2.5	Pass
				30	3.85	-1.431	-0.0006	-2.5 to 2.5	Pass
				40	3.85	-2.360	-0.0009	-2.5 to 2.5	Pass
				50	3.85	0.658	0.0003	-2.5 to 2.5	Pass
	2682.5	75	0	20	3.27	-2.460	-0.0009	-2.5 to 2.5	Pass



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					3.85	-0.658	-0.0002	-2.5 to 2.5	Pass
					4.43	-1.187	-0.0004	-2.5 to 2.5	Pass
				-30	3.85	-0.772	-0.0003	-2.5 to 2.5	Pass
				-20	3.85	-2.589	-0.0010	-2.5 to 2.5	Pass
				-10	3.85	-3.633	-0.0014	-2.5 to 2.5	Pass
				0	3.85	0.329	0.0001	-2.5 to 2.5	Pass
				10	3.85	-2.832	-0.0011	-2.5 to 2.5	Pass
				30	3.85	1.674	0.0006	-2.5 to 2.5	Pass
				40	3.85	-2.489	-0.0009	-2.5 to 2.5	Pass
				50	3.85	-1.087	-0.0004	-2.5 to 2.5	Pass
16QAM	2503.5	75	0	20	3.27	-0.114	0.0000	-2.5 to 2.5	Pass
					3.85	-1.087	-0.0004	-2.5 to 2.5	Pass
					4.43	0.000	0.0000	-2.5 to 2.5	Pass
				-30	3.85	0.544	0.0002	-2.5 to 2.5	Pass
				-20	3.85	-1.631	-0.0007	-2.5 to 2.5	Pass
				-10	3.85	-1.273	-0.0005	-2.5 to 2.5	Pass
				0	3.85	-0.730	-0.0003	-2.5 to 2.5	Pass
				10	3.85	-0.486	-0.0002	-2.5 to 2.5	Pass
				30	3.85	-1.259	-0.0005	-2.5 to 2.5	Pass
				40	3.85	-2.761	-0.0011	-2.5 to 2.5	Pass
				50	3.85	-0.501	-0.0002	-2.5 to 2.5	Pass
	2593	75	0	20	3.27	-3.061	-0.0012	-2.5 to 2.5	Pass
					3.85	-2.532	-0.0010	-2.5 to 2.5	Pass
					4.43	-2.275	-0.0009	-2.5 to 2.5	Pass
				-30	3.85	-4.220	-0.0016	-2.5 to 2.5	Pass
				-20	3.85	1.817	0.0007	-2.5 to 2.5	Pass
				-10	3.85	-0.887	-0.0003	-2.5 to 2.5	Pass
				0	3.85	-2.646	-0.0010	-2.5 to 2.5	Pass
				10	3.85	1.330	0.0005	-2.5 to 2.5	Pass
				30	3.85	-2.761	-0.0011	-2.5 to 2.5	Pass
				40	3.85	-1.845	-0.0007	-2.5 to 2.5	Pass
				50	3.85	-1.702	-0.0007	-2.5 to 2.5	Pass
	2682.5	75	0	20	3.27	-1.616	-0.0006	-2.5 to 2.5	Pass
					3.85	-2.646	-0.0010	-2.5 to 2.5	Pass
					4.43	0.343	0.0001	-2.5 to 2.5	Pass
				-30	3.85	0.172	0.0001	-2.5 to 2.5	Pass
				-20	3.85	-2.260	-0.0008	-2.5 to 2.5	Pass



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				-10	3.85	-2.861	-0.0011	-2.5 to 2.5	Pass
				0	3.85	-3.591	-0.0013	-2.5 to 2.5	Pass
				10	3.85	-1.030	-0.0004	-2.5 to 2.5	Pass
				30	3.85	-5.608	-0.0021	-2.5 to 2.5	Pass
				40	3.85	-1.574	-0.0006	-2.5 to 2.5	Pass
				50	3.85	-3.791	-0.0014	-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	-1.230	-0.0005	-2.5 to 2.5	Pass
					3.85	-4.420	-0.0018	-2.5 to 2.5	Pass
					4.43	-4.349	-0.0017	-2.5 to 2.5	Pass
				-30	3.85	-0.772	-0.0003	-2.5 to 2.5	Pass
				-20	3.85	-4.292	-0.0017	-2.5 to 2.5	Pass
				-10	3.85	-2.232	-0.0009	-2.5 to 2.5	Pass
				0	3.85	-2.389	-0.0010	-2.5 to 2.5	Pass
				10	3.85	0.443	0.0002	-2.5 to 2.5	Pass
				30	3.85	-4.549	-0.0018	-2.5 to 2.5	Pass
				40	3.85	-1.316	-0.0005	-2.5 to 2.5	Pass
				50	3.85	-0.801	-0.0003	-2.5 to 2.5	Pass
	2593	100	0	20	3.27	-2.718	-0.0010	-2.5 to 2.5	Pass
					3.85	-2.189	-0.0008	-2.5 to 2.5	Pass
					4.43	-3.104	-0.0012	-2.5 to 2.5	Pass
				-30	3.85	-0.887	-0.0003	-2.5 to 2.5	Pass
				-20	3.85	-1.602	-0.0006	-2.5 to 2.5	Pass
				-10	3.85	0.544	0.0002	-2.5 to 2.5	Pass
				0	3.85	-4.106	-0.0016	-2.5 to 2.5	Pass
				10	3.85	-2.489	-0.0010	-2.5 to 2.5	Pass
				30	3.85	-0.300	-0.0001	-2.5 to 2.5	Pass
				40	3.85	-2.332	-0.0009	-2.5 to 2.5	Pass
				50	3.85	-4.034	-0.0016	-2.5 to 2.5	Pass
	2680	100	0	20	3.27	-4.277	-0.0016	-2.5 to 2.5	Pass
					3.85	-4.263	-0.0016	-2.5 to 2.5	Pass
					4.43	-0.544	-0.0002	-2.5 to 2.5	Pass
				-30	3.85	-2.317	-0.0009	-2.5 to 2.5	Pass



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				-20	3.85	-1.287	-0.0005	-2.5 to 2.5	Pass
				-10	3.85	-2.961	-0.0011	-2.5 to 2.5	Pass
				0	3.85	-0.286	-0.0001	-2.5 to 2.5	Pass
				10	3.85	0.801	0.0003	-2.5 to 2.5	Pass
				30	3.85	-2.789	-0.0010	-2.5 to 2.5	Pass
				40	3.85	-3.004	-0.0011	-2.5 to 2.5	Pass
				50	3.85	-1.588	-0.0006	-2.5 to 2.5	Pass
16QAM	2506	100	0	20	3.27	-0.286	-0.0001	-2.5 to 2.5	Pass
					3.85	0.272	0.0001	-2.5 to 2.5	Pass
					4.43	-1.760	-0.0007	-2.5 to 2.5	Pass
				-30	3.85	-2.031	-0.0008	-2.5 to 2.5	Pass
				-20	3.85	-0.014	0.0000	-2.5 to 2.5	Pass
				-10	3.85	0.029	0.0000	-2.5 to 2.5	Pass
				0	3.85	-0.086	0.0000	-2.5 to 2.5	Pass
				10	3.85	-0.100	0.0000	-2.5 to 2.5	Pass
				30	3.85	-4.563	-0.0018	-2.5 to 2.5	Pass
				40	3.85	0.343	0.0001	-2.5 to 2.5	Pass
				50	3.85	-1.674	-0.0007	-2.5 to 2.5	Pass
	2593	100	0	20	3.27	-3.991	-0.0015	-2.5 to 2.5	Pass
					3.85	-1.259	-0.0005	-2.5 to 2.5	Pass
					4.43	-1.516	-0.0006	-2.5 to 2.5	Pass
				-30	3.85	-2.289	-0.0009	-2.5 to 2.5	Pass
				-20	3.85	-2.418	-0.0009	-2.5 to 2.5	Pass
				-10	3.85	-2.432	-0.0009	-2.5 to 2.5	Pass
				0	3.85	-1.502	-0.0006	-2.5 to 2.5	Pass
				10	3.85	-0.014	0.0000	-2.5 to 2.5	Pass
				30	3.85	-0.587	-0.0002	-2.5 to 2.5	Pass
				40	3.85	-2.260	-0.0009	-2.5 to 2.5	Pass
				50	3.85	-0.930	-0.0004	-2.5 to 2.5	Pass
	2680	100	0	20	3.27	-1.259	-0.0005	-2.5 to 2.5	Pass
					3.85	-0.014	0.0000	-2.5 to 2.5	Pass
					4.43	-1.459	-0.0005	-2.5 to 2.5	Pass
				-30	3.85	-3.376	-0.0013	-2.5 to 2.5	Pass
				-20	3.85	-3.691	-0.0014	-2.5 to 2.5	Pass
				-10	3.85	-3.777	-0.0014	-2.5 to 2.5	Pass
				0	3.85	-3.977	-0.0015	-2.5 to 2.5	Pass
				10	3.85	-0.672	-0.0003	-2.5 to 2.5	Pass



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				30	3.85	0.300	0.0001	-2.5 to 2.5	Pass
				40	3.85	-1.631	-0.0006	-2.5 to 2.5	Pass
				50	3.85	-0.100	0.0000	-2.5 to 2.5	Pass

### 3. 99% & 26dB Bandwidth

#### 3.1 Test Result

##### 3.1.1 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	4.582	/	Pass
		2593	25	0	4.574	/	Pass
		2687.5	25	0	4.561	/	Pass
	16QAM	2498.5	25	0	4.565	/	Pass
		2593	25	0	4.566	/	Pass
		2687.5	25	0	4.584	/	Pass
10	QPSK	2501	50	0	9.101	/	Pass
		2593	50	0	9.070	/	Pass
		2685	50	0	9.086	/	Pass
	16QAM	2501	50	0	9.132	/	Pass
		2593	50	0	9.093	/	Pass
		2685	50	0	9.108	/	Pass
15	QPSK	2503.5	75	0	13.625	/	Pass
		2593	75	0	13.629	/	Pass
		2682.5	75	0	13.634	/	Pass
	16QAM	2503.5	75	0	13.629	/	Pass
		2593	75	0	13.666	/	Pass
		2682.5	75	0	13.673	/	Pass
20	QPSK	2506	100	0	18.168	/	Pass
		2593	100	0	18.087	/	Pass
		2680	100	0	18.171	/	Pass
	16QAM	2506	100	0	18.166	/	Pass
		2593	100	0	18.129	/	Pass
		2680	100	0	18.168	/	Pass



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### 3.1.2 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	5.141	/	Pass
		2593	25	0	5.445	/	Pass
		2687.5	25	0	5.236	/	Pass
	16QAM	2498.5	25	0	5.264	/	Pass
		2593	25	0	5.223	/	Pass
		2687.5	25	0	5.461	/	Pass
10	QPSK	2501	50	0	10.149	/	Pass
		2593	50	0	11.127	/	Pass
		2685	50	0	11.149	/	Pass
	16QAM	2501	50	0	11.307	/	Pass
		2593	50	0	11.336	/	Pass
		2685	50	0	10.645	/	Pass
15	QPSK	2503.5	75	0	16.250	/	Pass
		2593	75	0	16.073	/	Pass
		2682.5	75	0	15.694	/	Pass
	16QAM	2503.5	75	0	16.367	/	Pass
		2593	75	0	16.132	/	Pass
		2682.5	75	0	15.226	/	Pass
20	QPSK	2506	100	0	20.820	/	Pass
		2593	100	0	20.419	/	Pass
		2680	100	0	21.159	/	Pass
	16QAM	2506	100	0	21.807	/	Pass
		2593	100	0	20.943	/	Pass
		2680	100	0	20.865	/	Pass



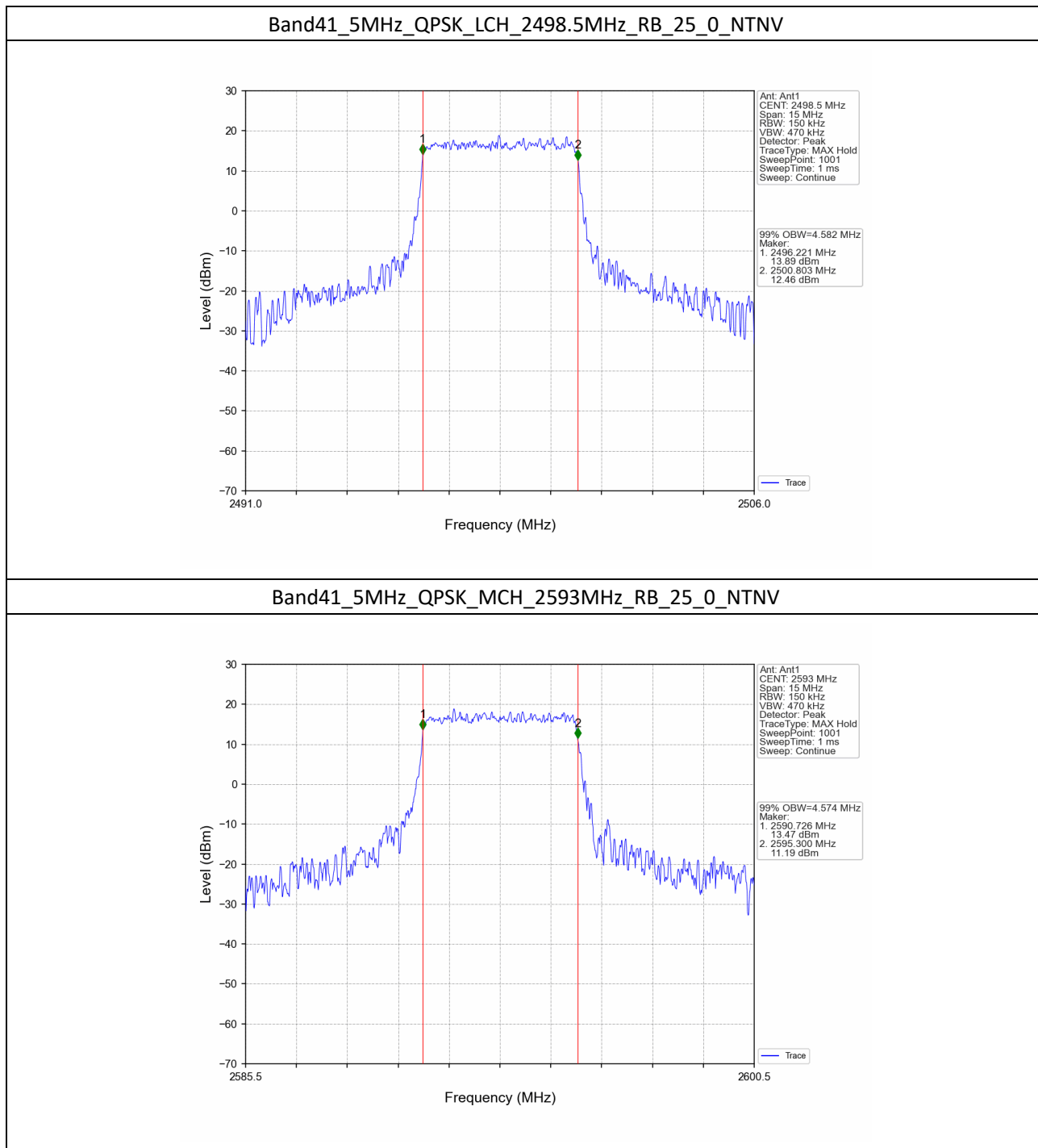
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### 3.2 Test Graph

#### 3.2.1 Band41\_OBW

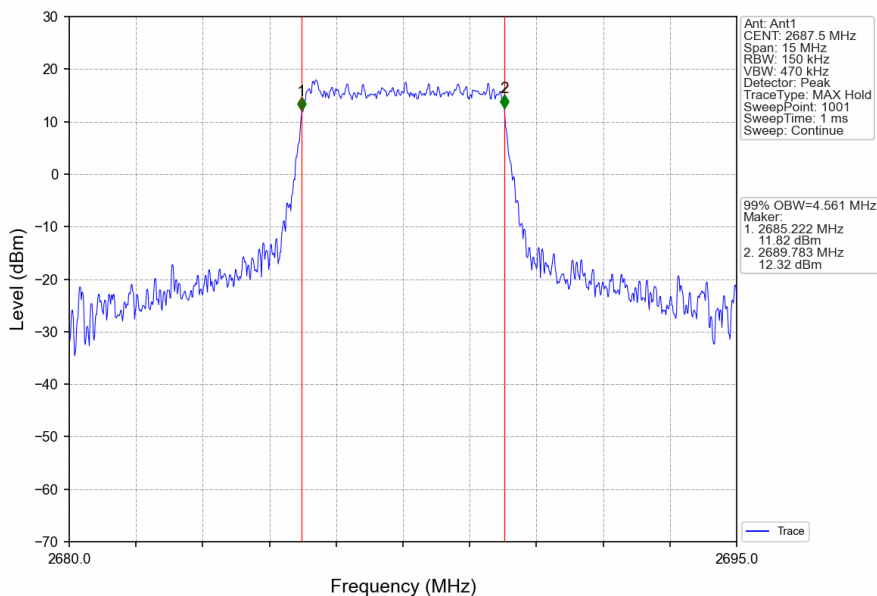


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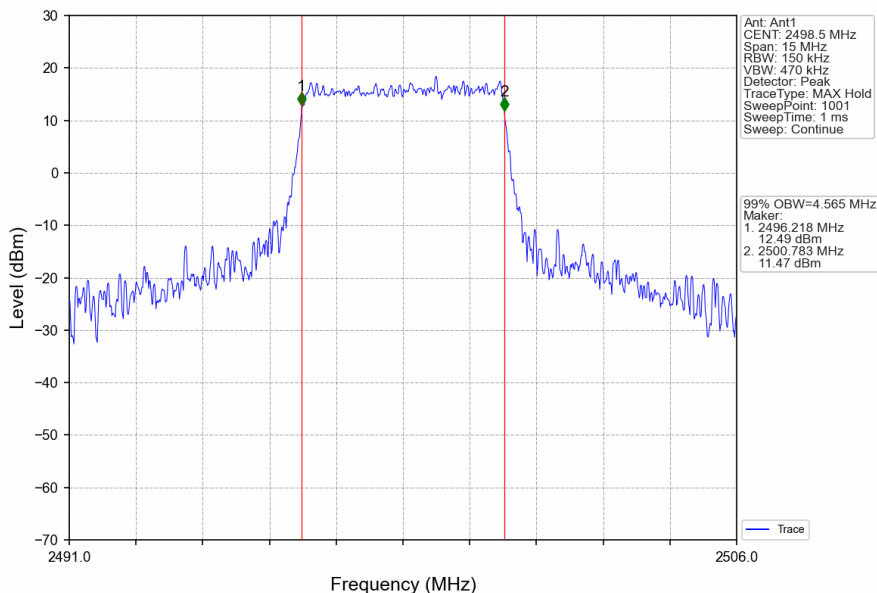
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Band41\_5MHz\_QPSK\_HCH\_2687.5MHz\_RB\_25\_0\_NTNV



Band41\_5MHz\_16QAM\_LCH\_2498.5MHz\_RB\_25\_0\_NTNV



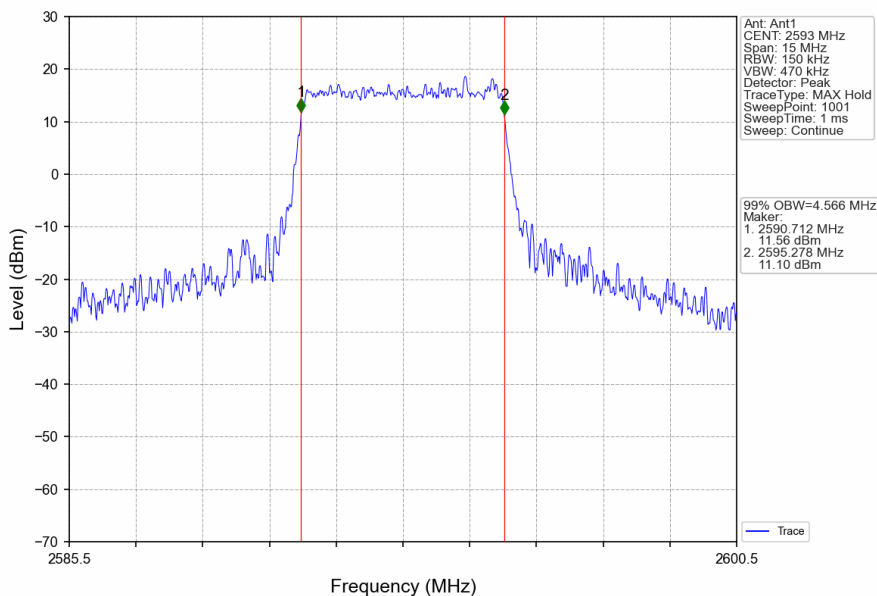
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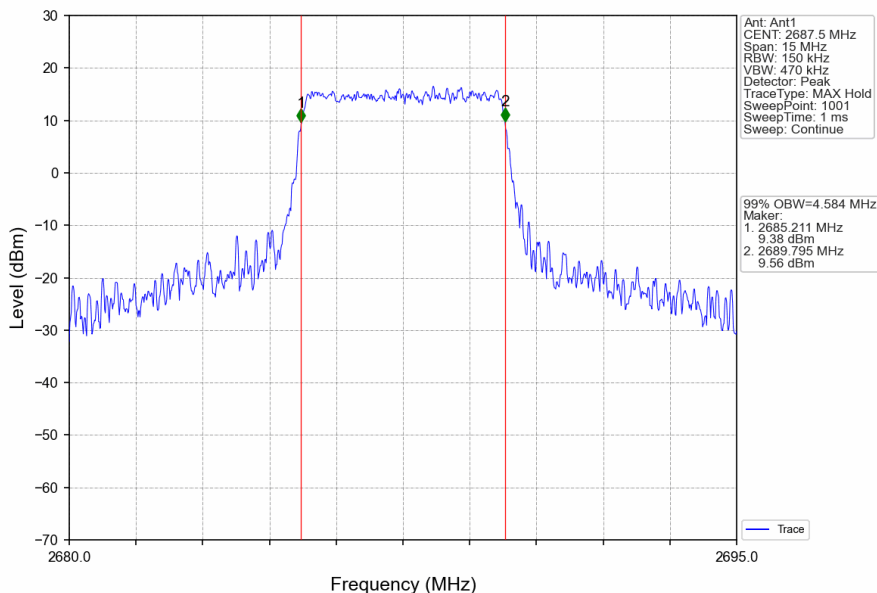
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Band41\_5MHz\_16QAM\_MCH\_2593MHz\_RB\_25\_0\_NTNV



Band41\_5MHz\_16QAM\_HCH\_2687.5MHz\_RB\_25\_0\_NTNV

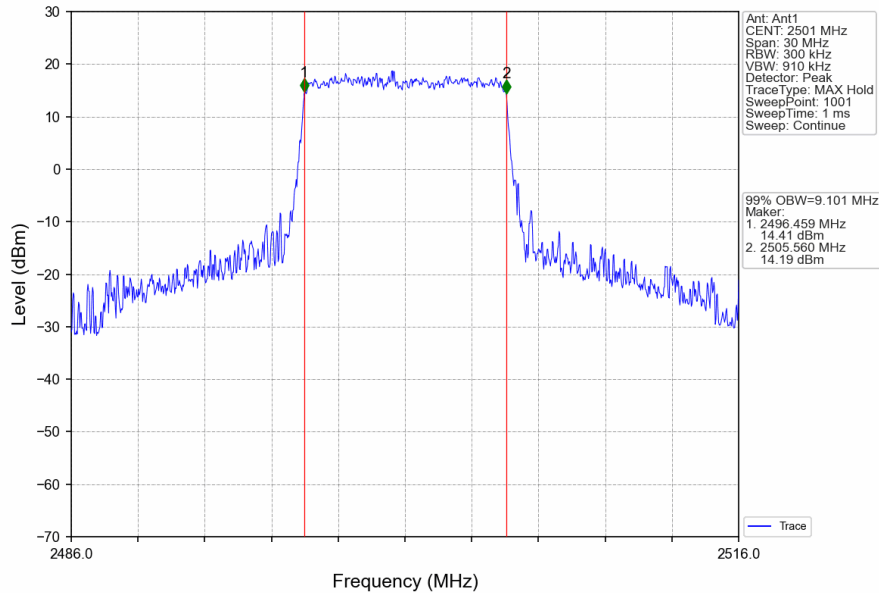


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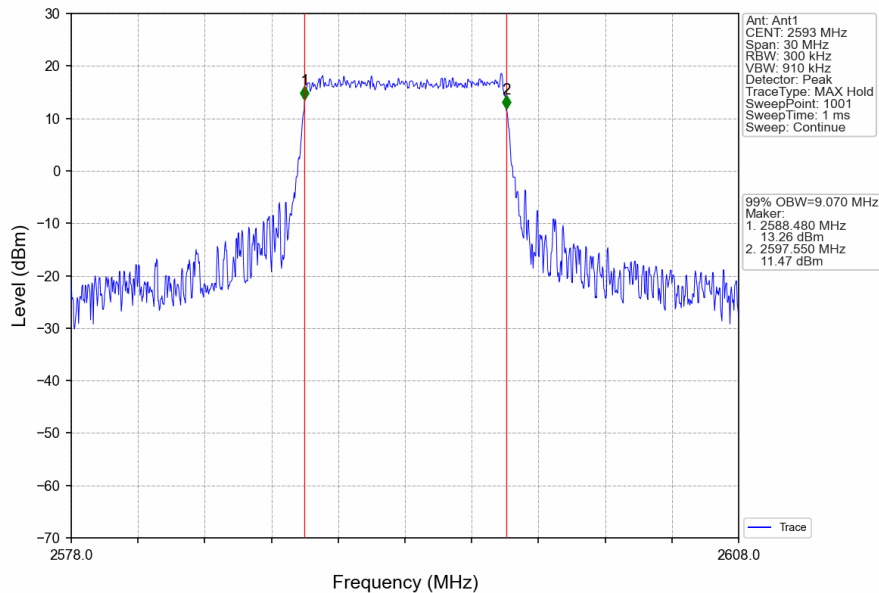
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Band41\_10MHz\_QPSK\_LCH\_2501MHz\_RB\_50\_0\_NTNV



Band41\_10MHz\_QPSK\_MCH\_2593MHz\_RB\_50\_0\_NTNV

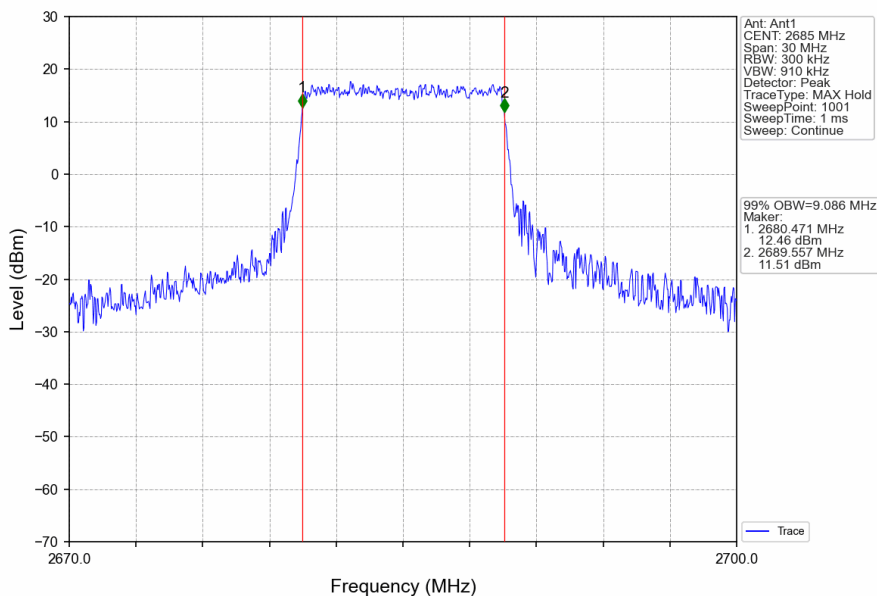


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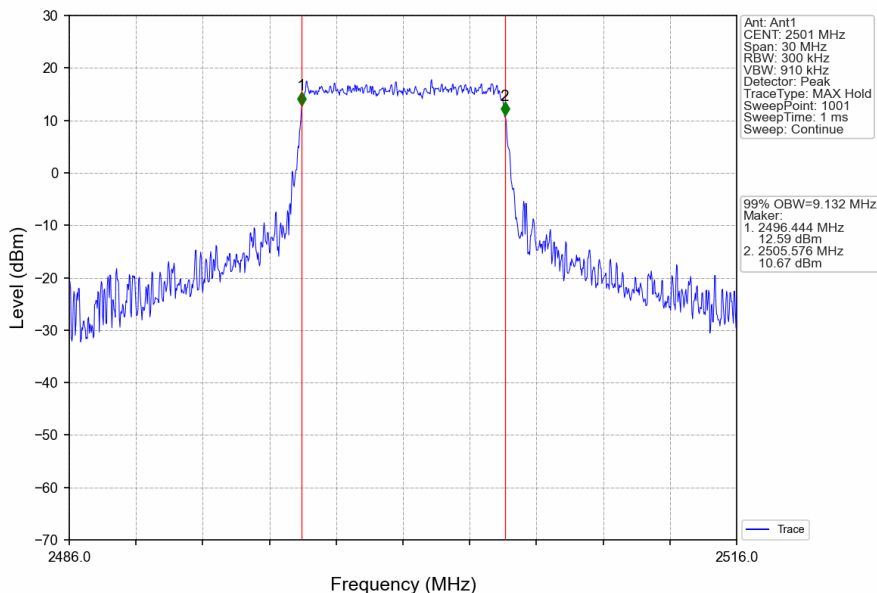
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Band41\_10MHz\_QPSK\_HCH\_2685MHz\_RB\_50\_0\_NTNV



Band41\_10MHz\_16QAM\_LCH\_2501MHz\_RB\_50\_0\_NTNV

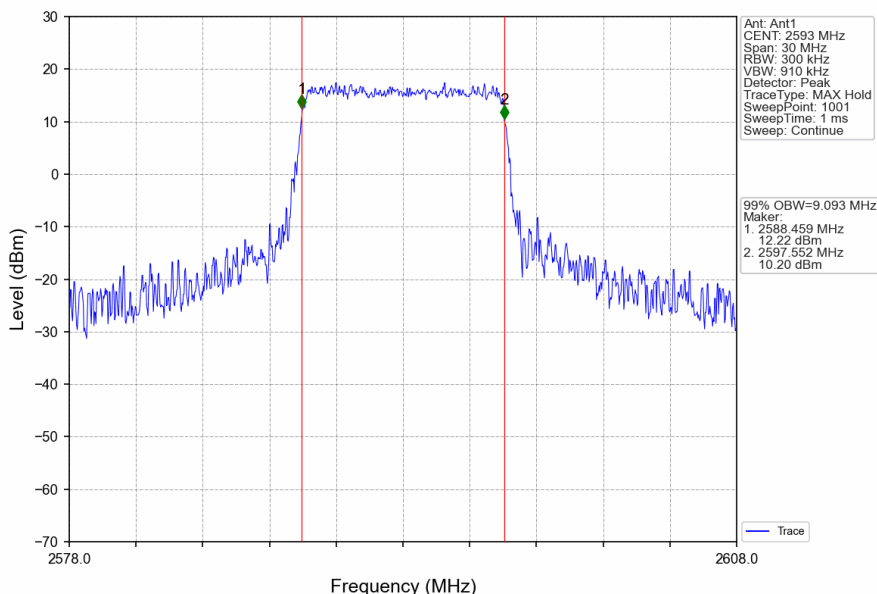


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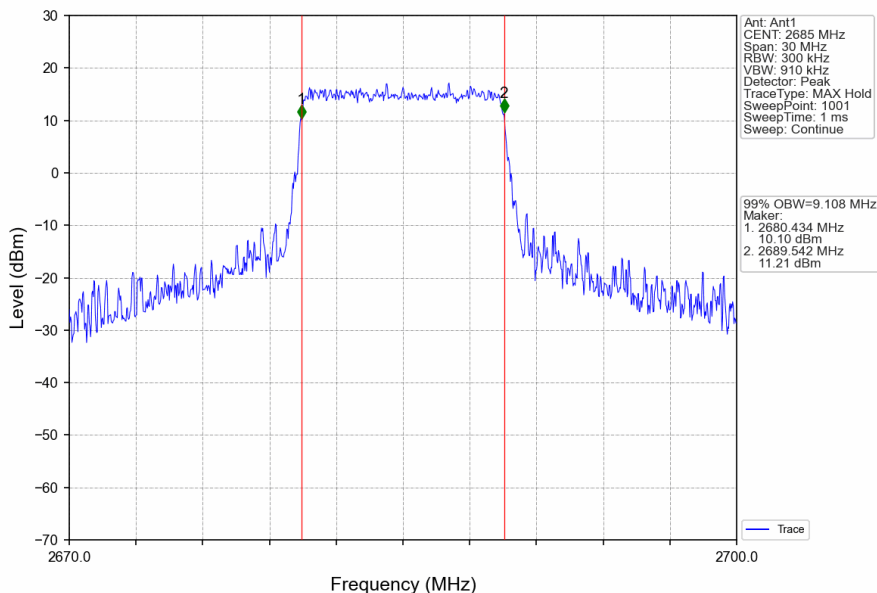
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Band41\_10MHz\_16QAM\_MCH\_2593MHz\_RB\_50\_0\_NTNV



Band41\_10MHz\_16QAM\_HCH\_2685MHz\_RB\_50\_0\_NTNV

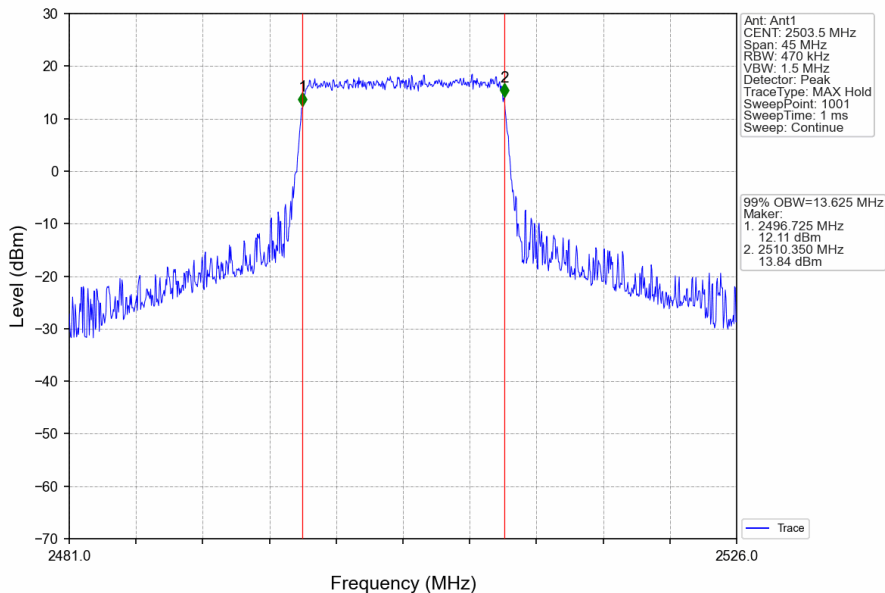


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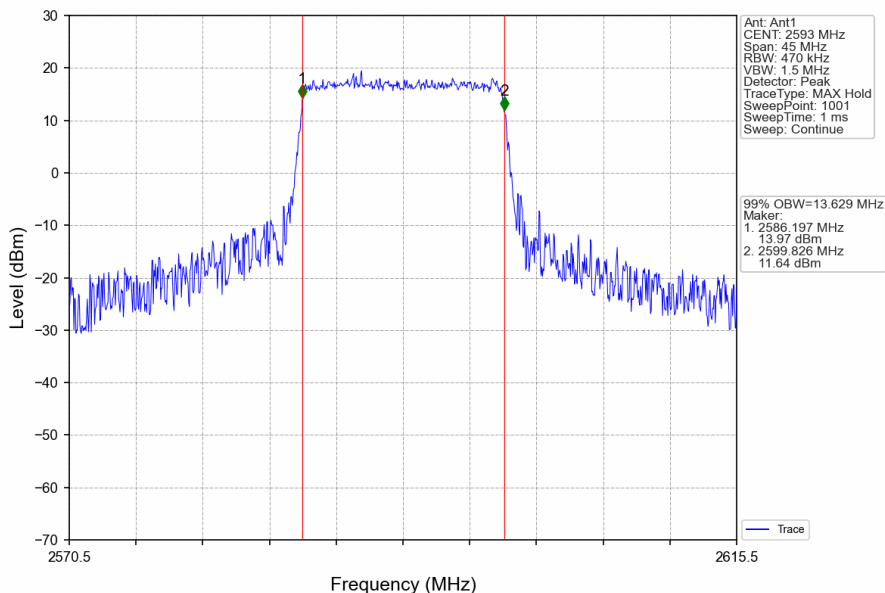
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Band41\_15MHz\_QPSK\_LCH\_2503.5MHz\_RB\_75\_0\_NTNV



Band41\_15MHz\_QPSK\_MCH\_2593MHz\_RB\_75\_0\_NTNV



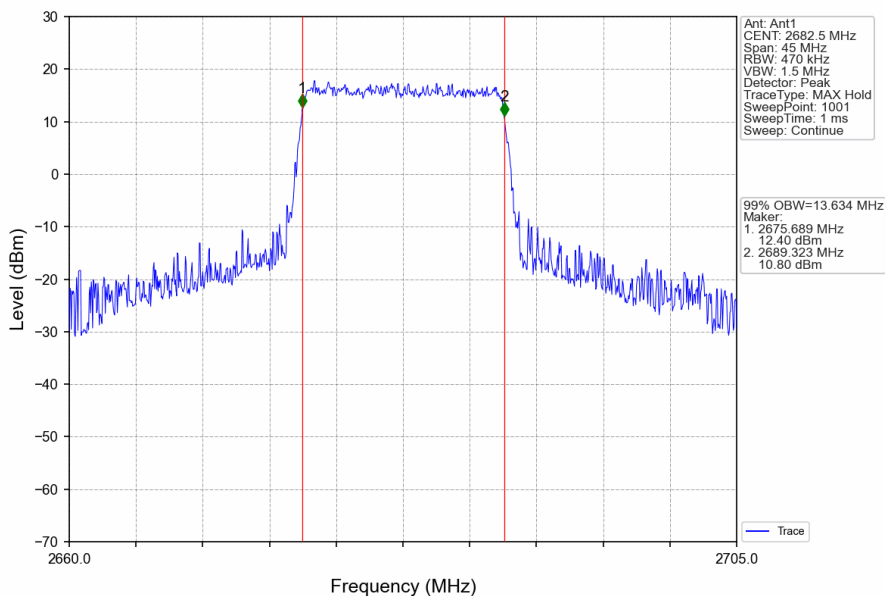
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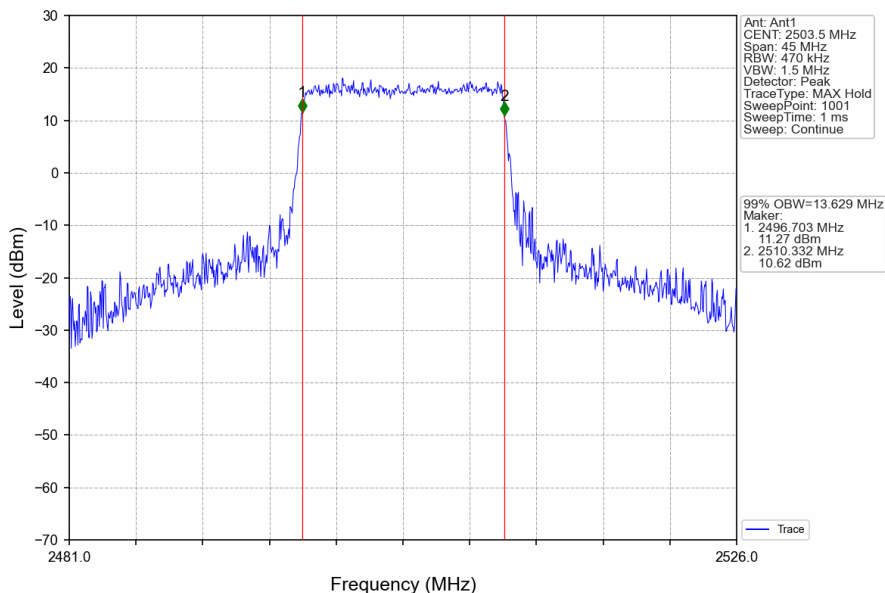
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Band41\_15MHz\_QPSK\_HCH\_2682.5MHz\_RB\_75\_0\_NTNV



Band41\_15MHz\_16QAM\_LCH\_2503.5MHz\_RB\_75\_0\_NTNV

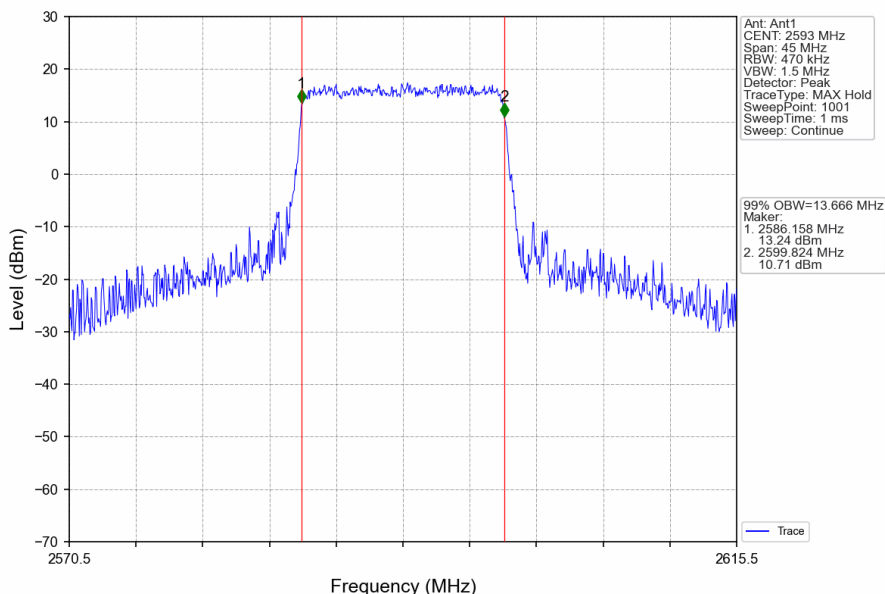


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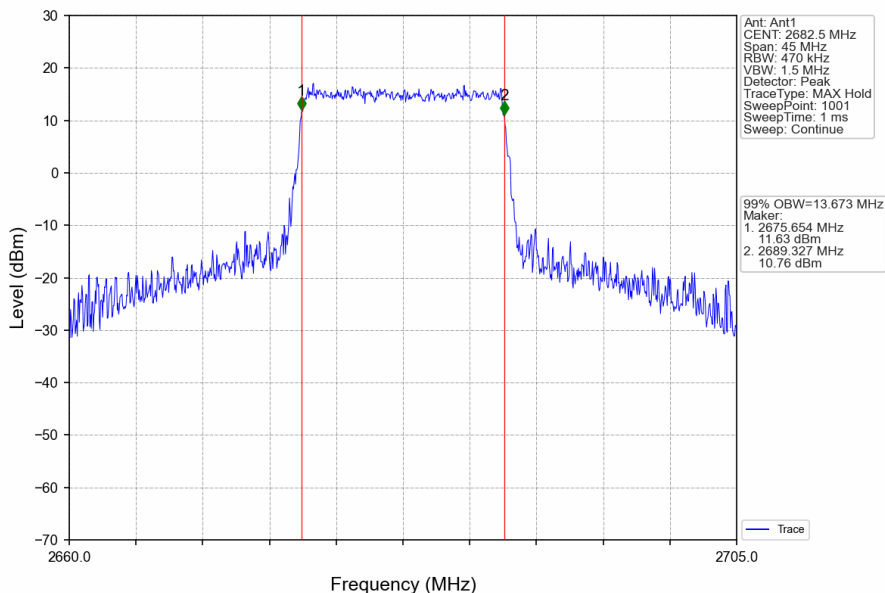
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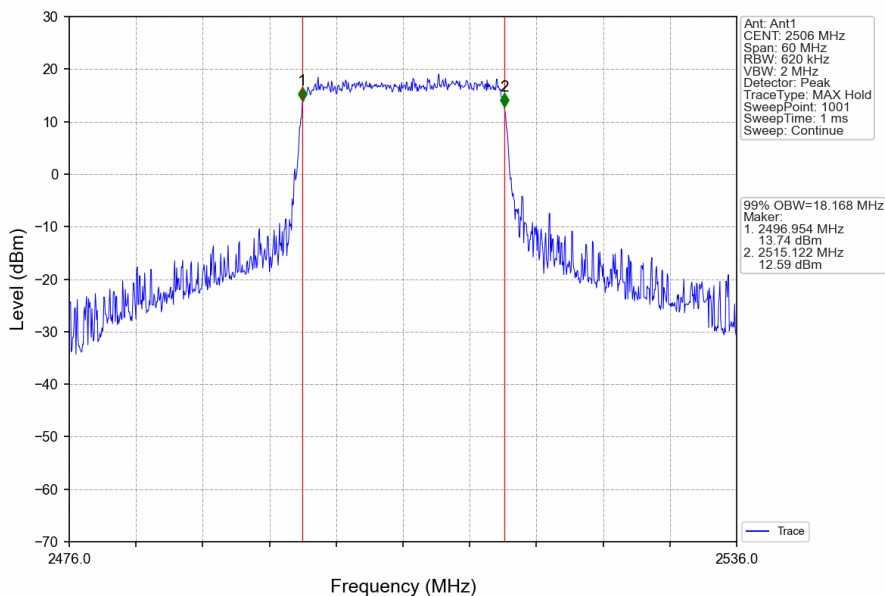
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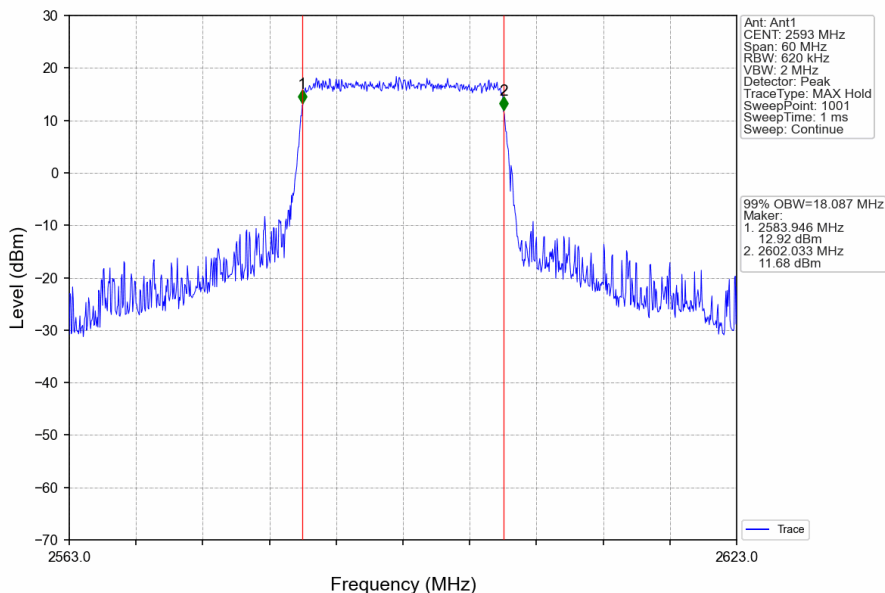
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Band41\_20MHz\_QPSK\_LCH\_2506MHz\_RB\_100\_0\_NTNV



Band41\_20MHz\_QPSK\_MCH\_2593MHz\_RB\_100\_0\_NTNV

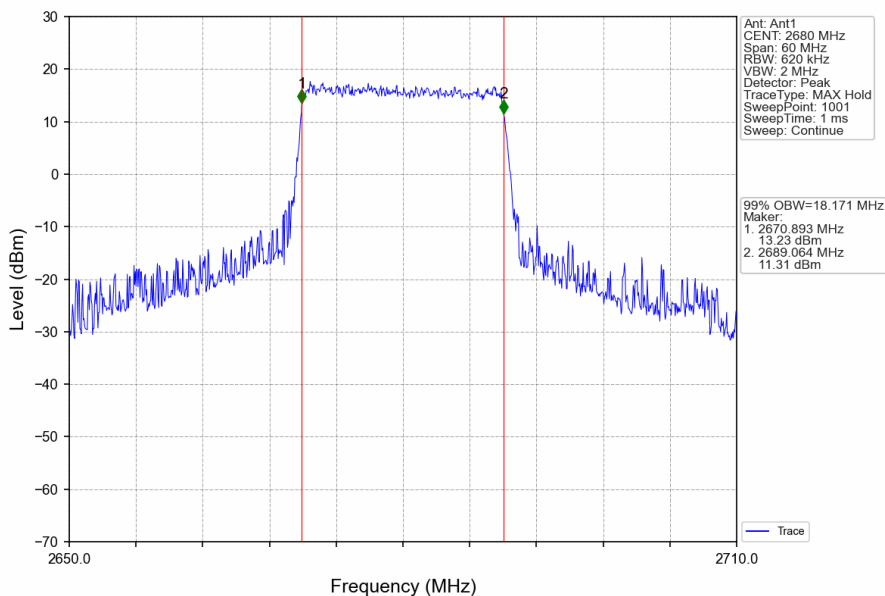


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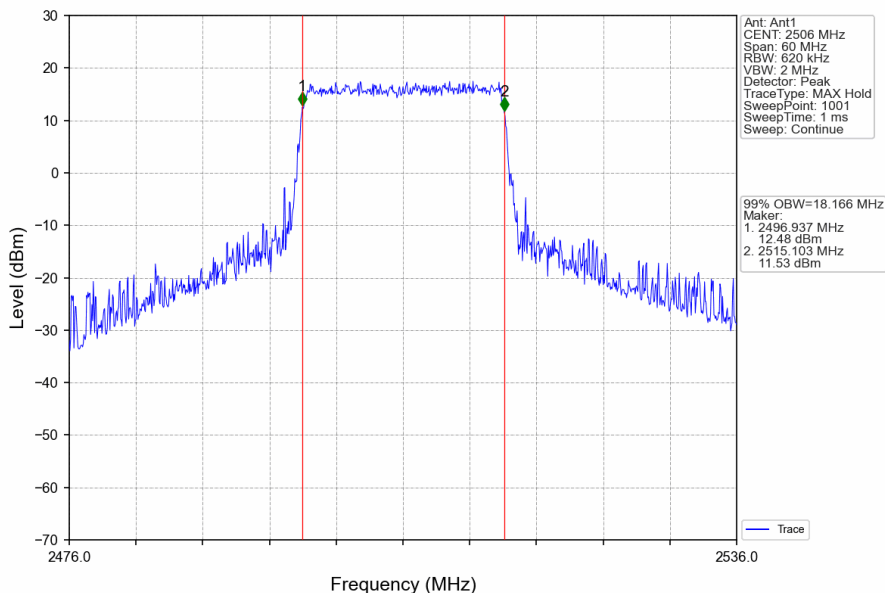
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Band41\_20MHz\_QPSK\_HCH\_2680MHz\_RB\_100\_0\_NTNV



Band41\_20MHz\_16QAM\_LCH\_2506MHz\_RB\_100\_0\_NTNV

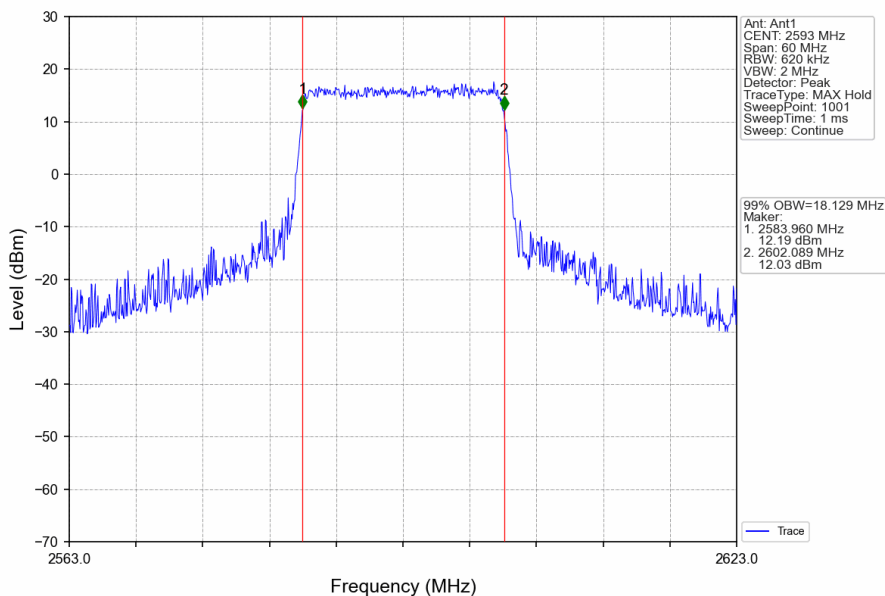


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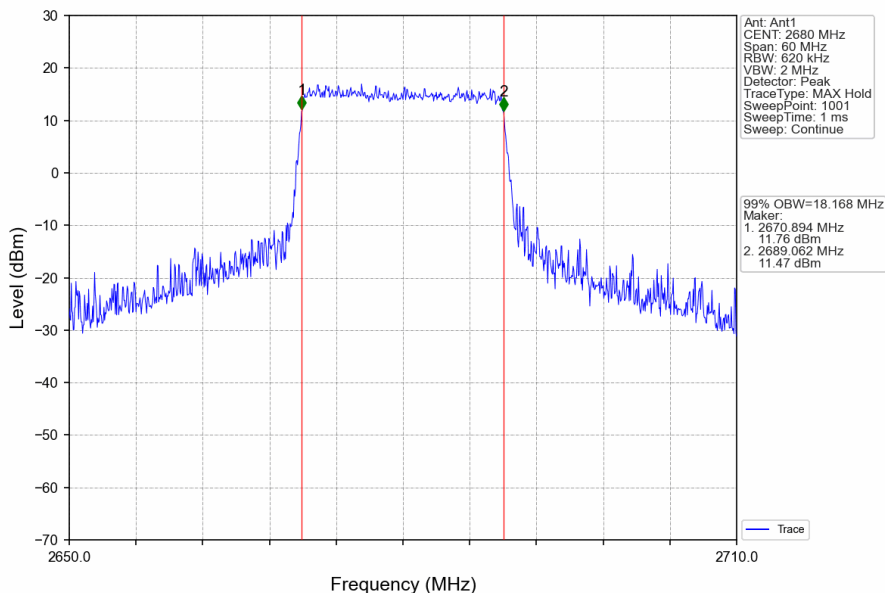
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Band41\_20MHz\_16QAM\_MCH\_2593MHz\_RB\_100\_0\_NTNV



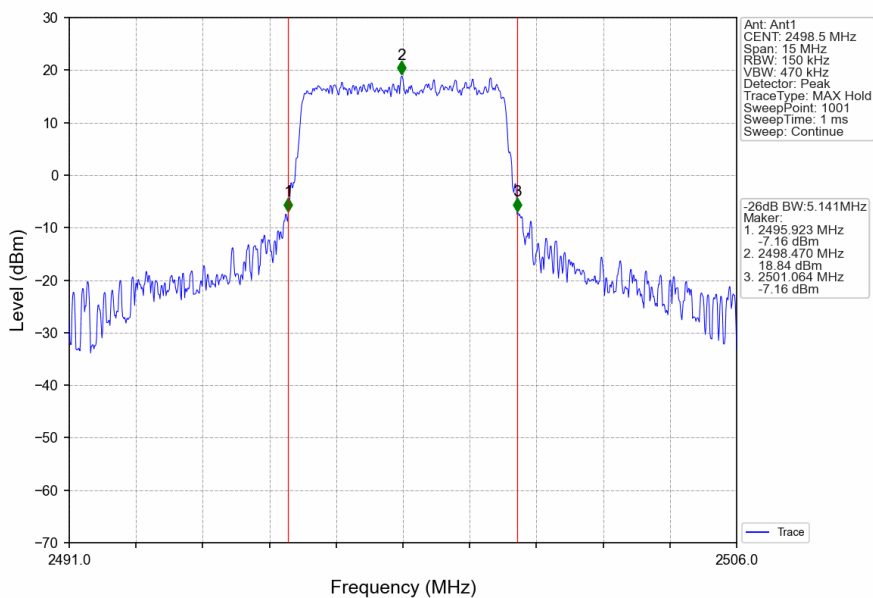
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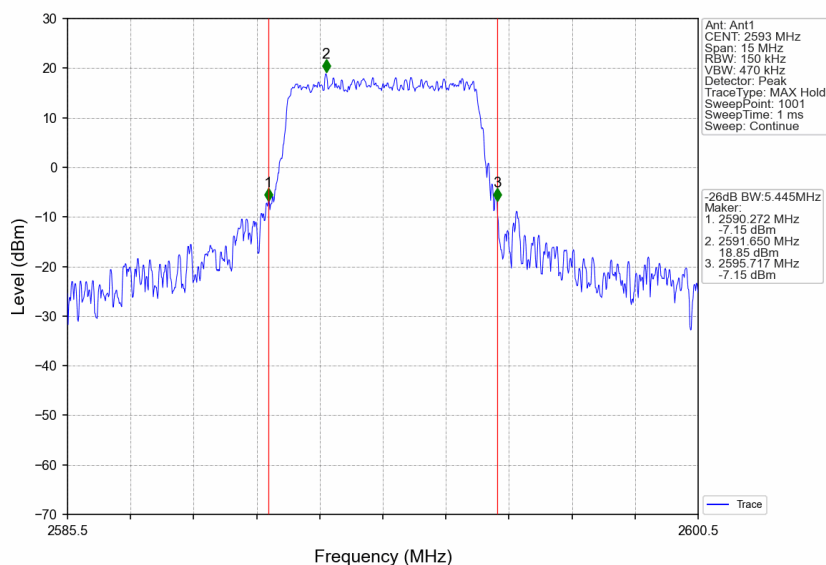


### 3.2.2 Band41\_XDB

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Band41\_5MHz\_QPSK\_MCH\_2593MHz\_RB\_25\_0\_NTNV

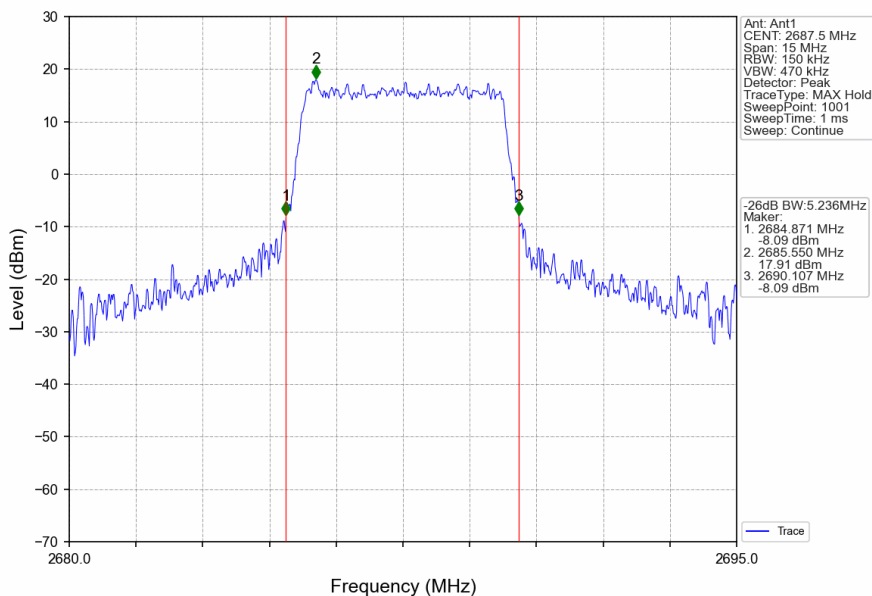


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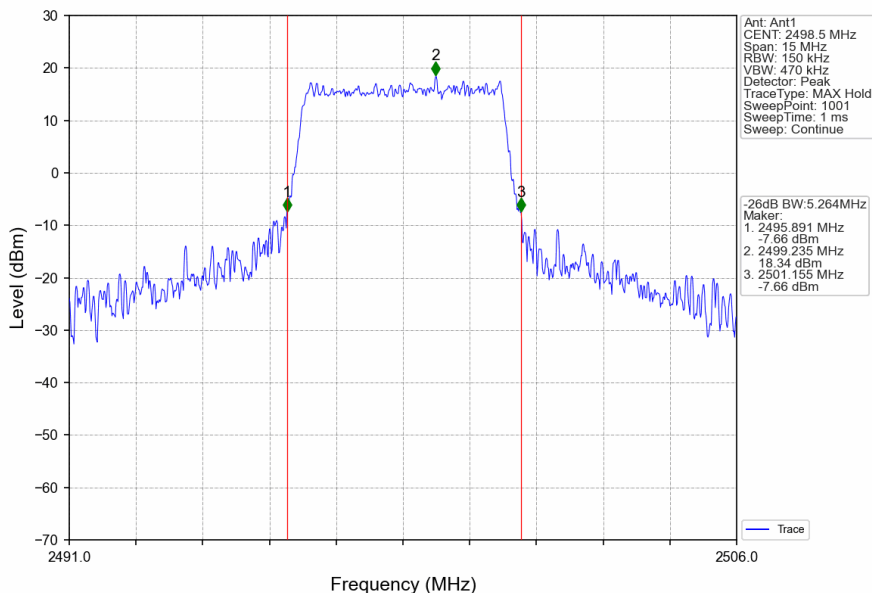
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Band41\_5MHz\_QPSK\_HCH\_2687.5MHz\_RB\_25\_0\_NTNV



Band41\_5MHz\_16QAM\_LCH\_2498.5MHz\_RB\_25\_0\_NTNV

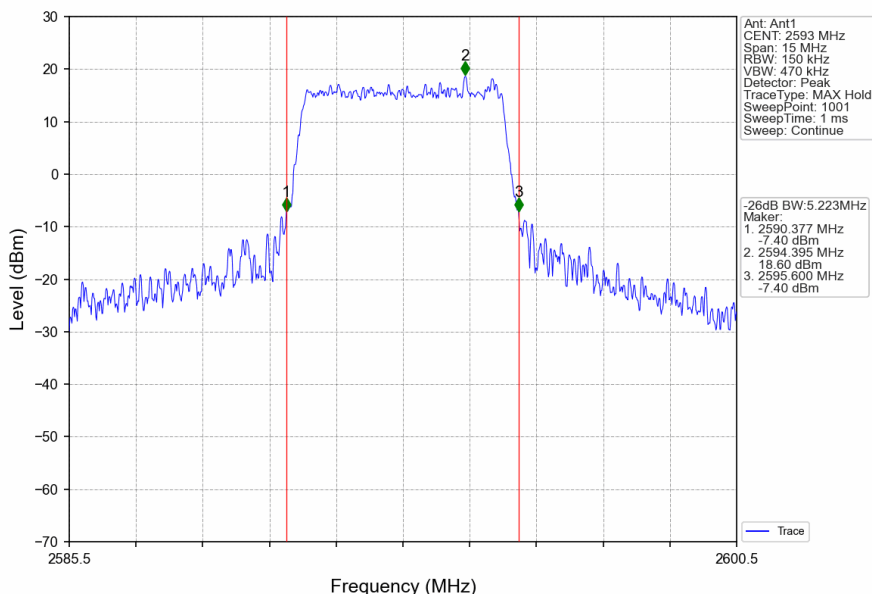


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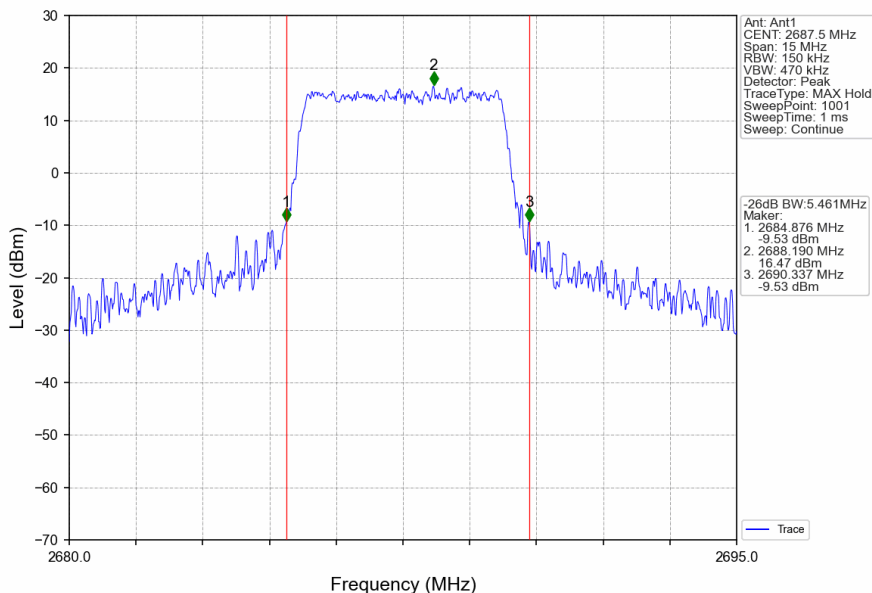
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Band41\_5MHz\_16QAM\_MCH\_2593MHz\_RB\_25\_0\_NTNV



Band41\_5MHz\_16QAM\_HCH\_2687.5MHz\_RB\_25\_0\_NTNV

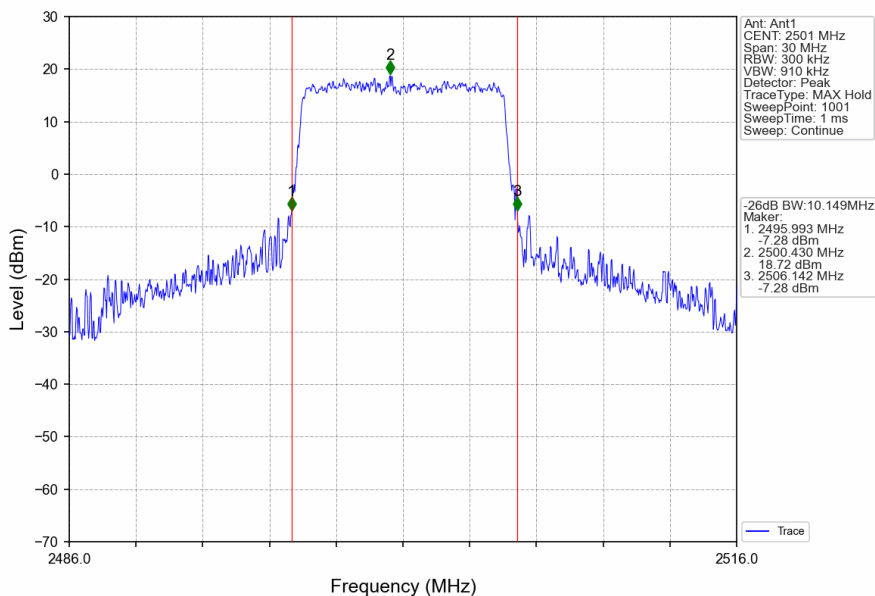


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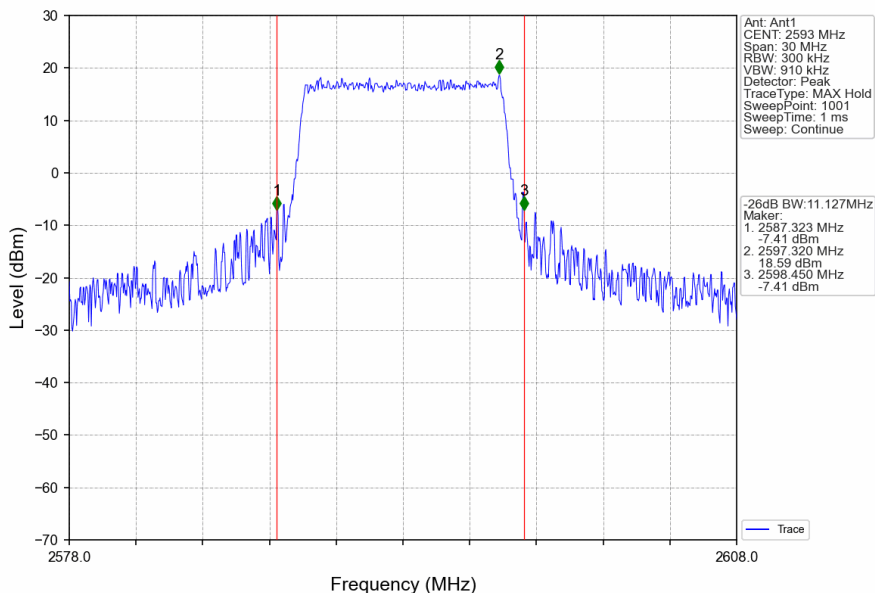
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Band41\_10MHz\_QPSK\_LCH\_2501MHz\_RB\_50\_0\_NTNV



Band41\_10MHz\_QPSK\_MCH\_2593MHz\_RB\_50\_0\_NTNV

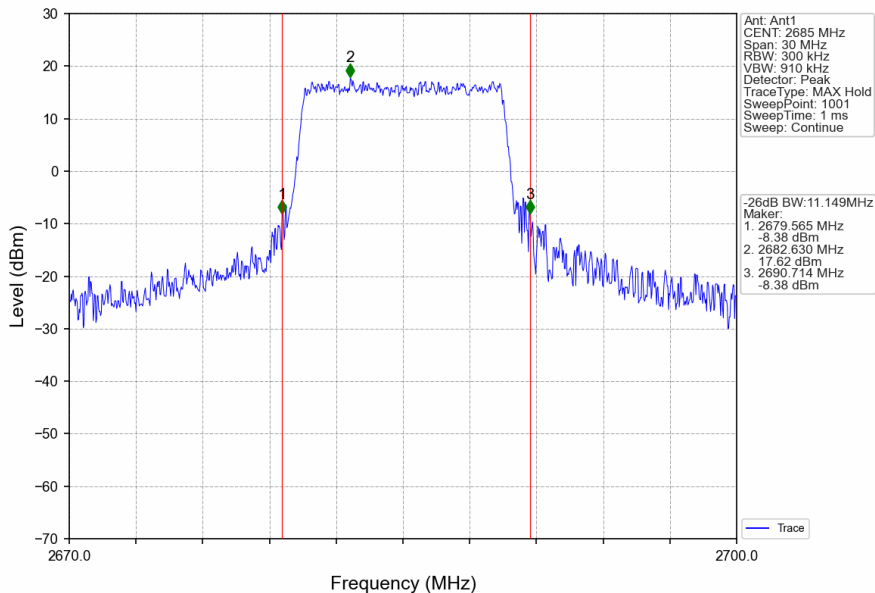


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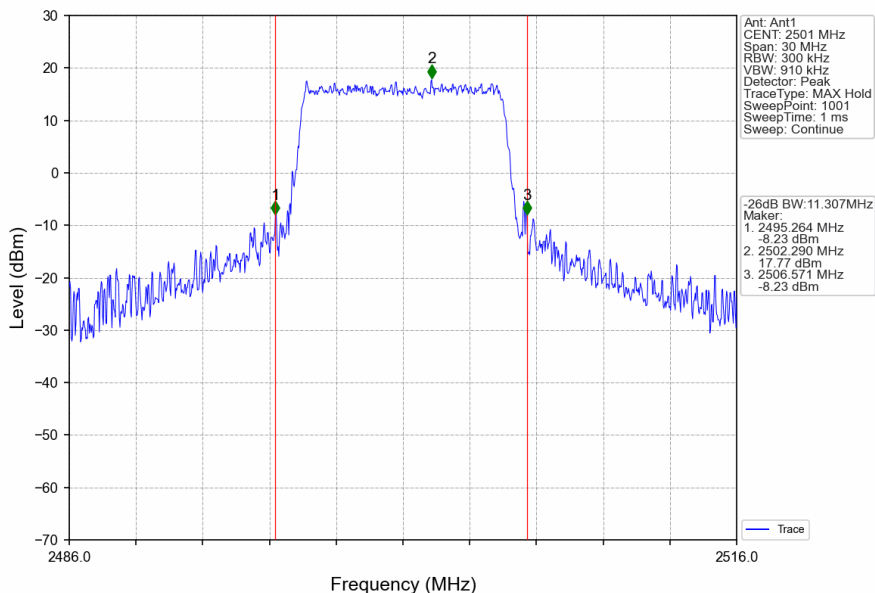
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Band41\_10MHz\_16QAM\_LCH\_2501MHz\_RB\_50\_0\_NTNV



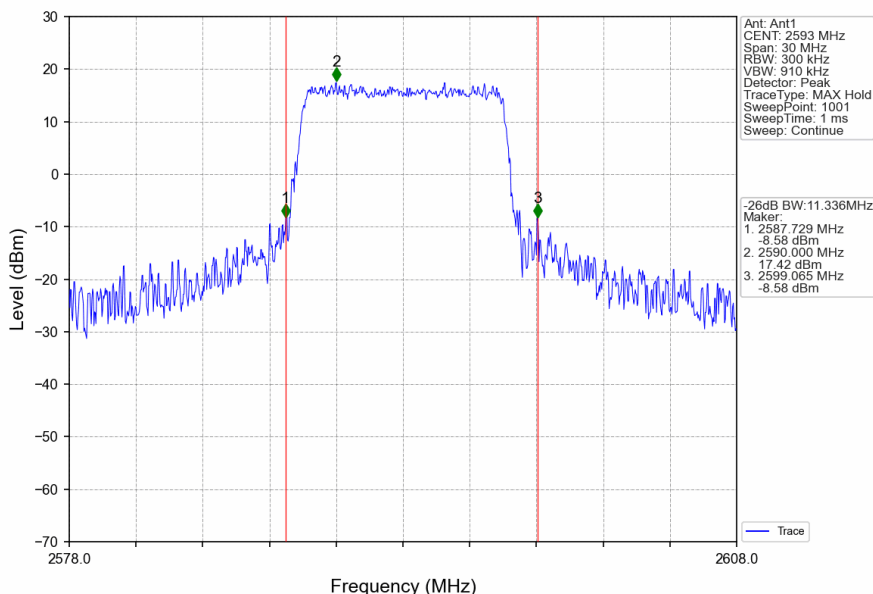
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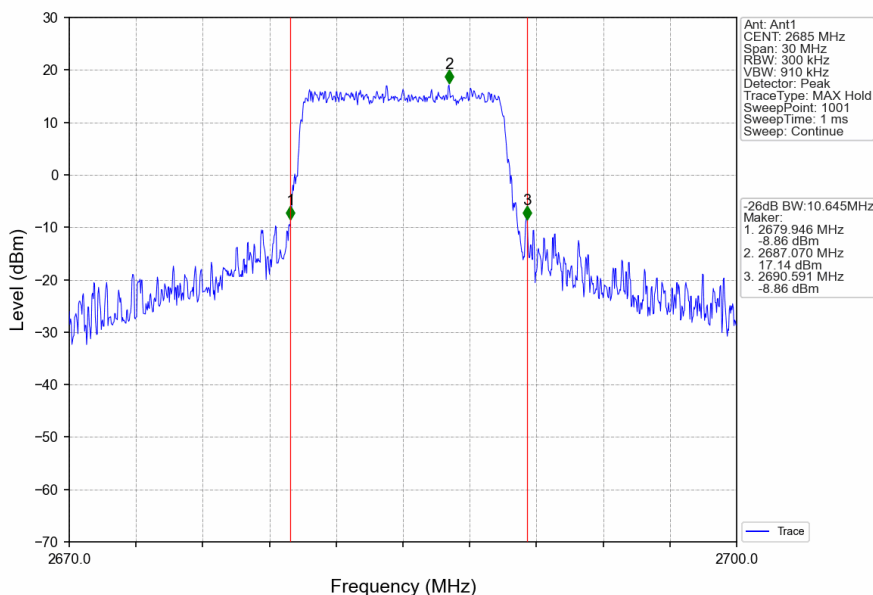
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Band41\_10MHz\_16QAM\_MCH\_2593MHz\_RB\_50\_0\_NTNV



Band41\_10MHz\_16QAM\_HCH\_2685MHz\_RB\_50\_0\_NTNV

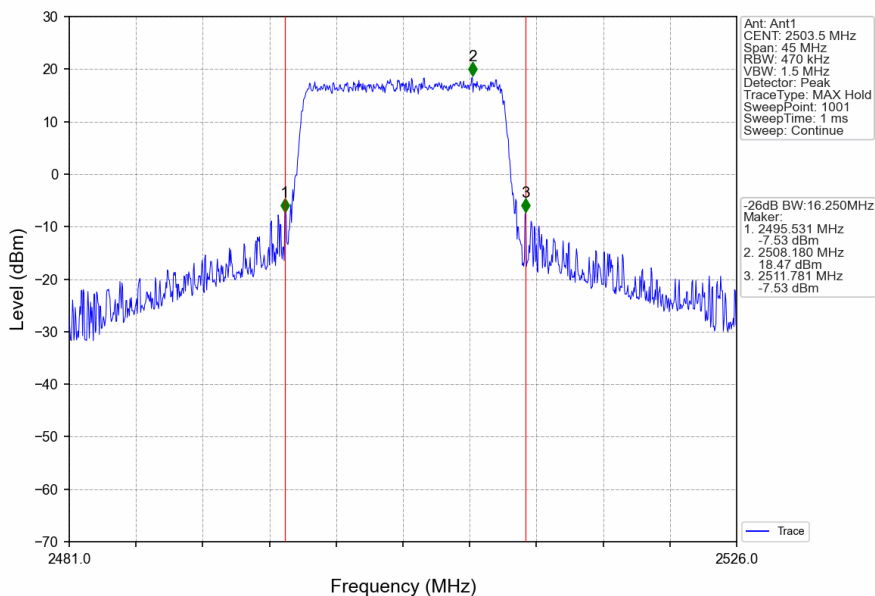


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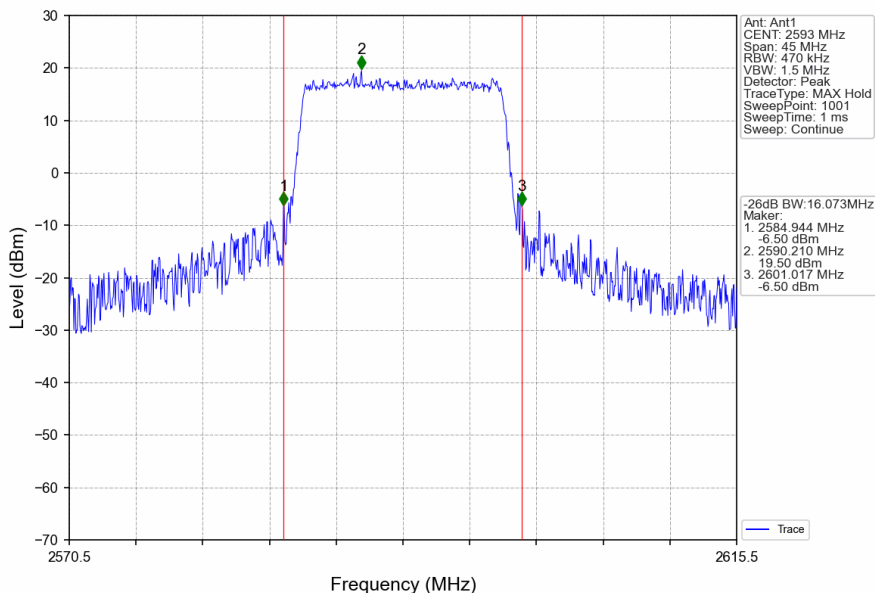
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Band41\_15MHz\_QPSK\_LCH\_2503.5MHz\_RB\_75\_0\_NTNV



Band41\_15MHz\_QPSK\_MCH\_2593MHz\_RB\_75\_0\_NTNV

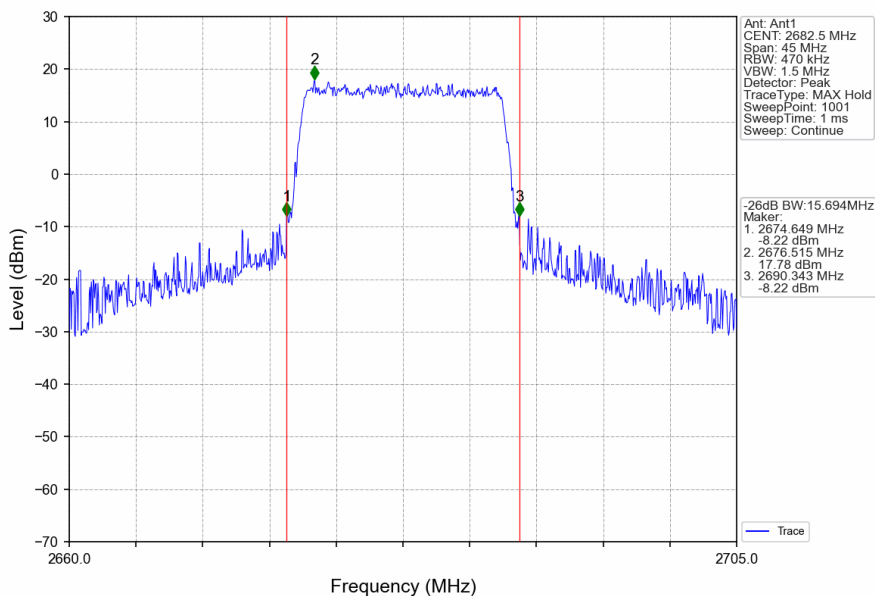


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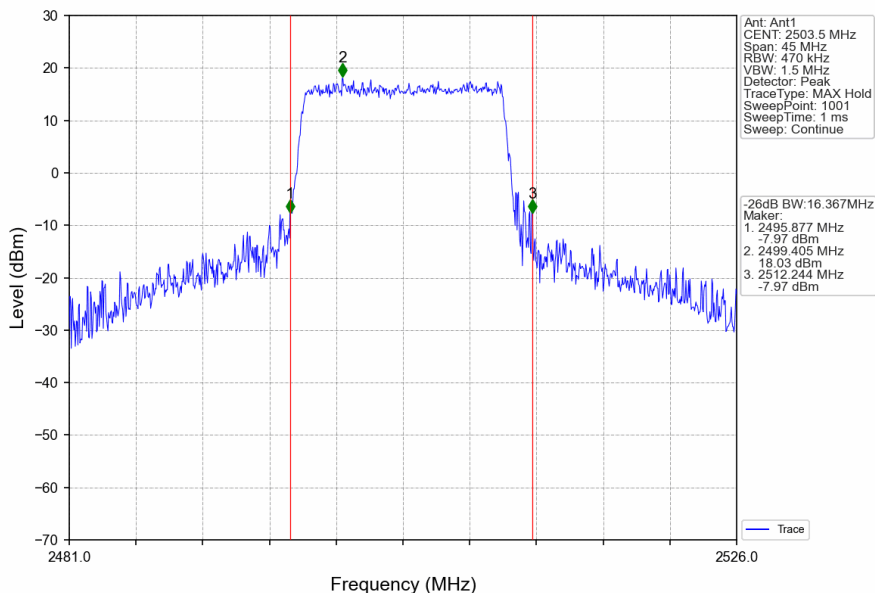
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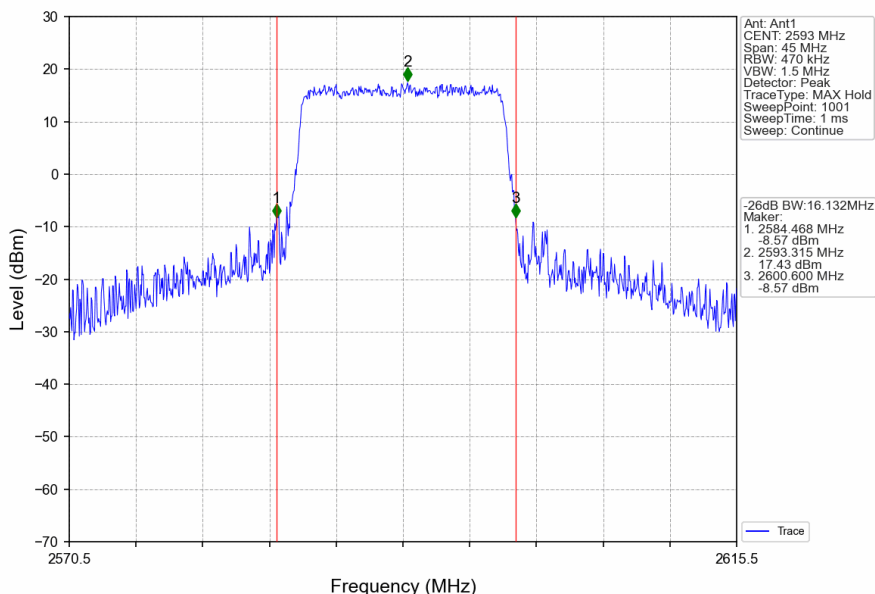
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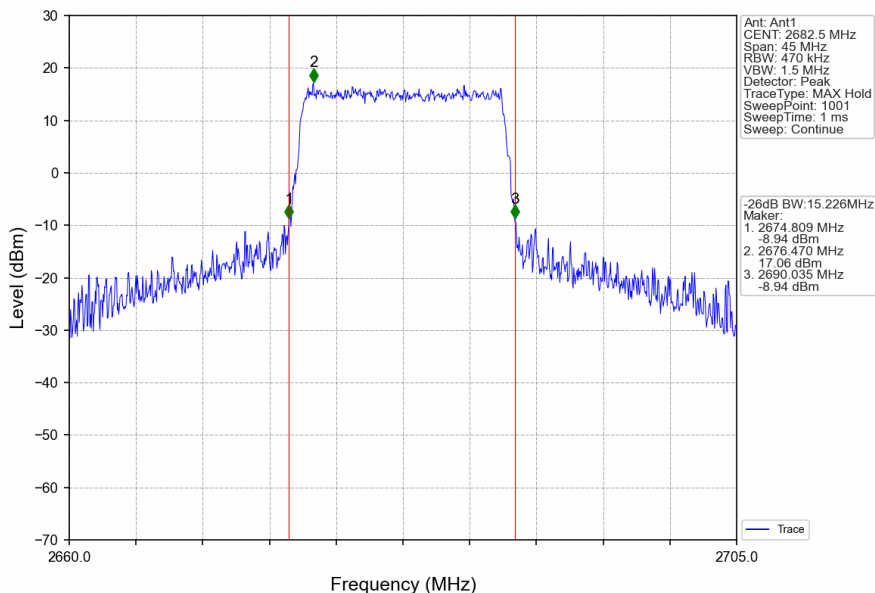
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Band41\_15MHz\_16QAM\_HCH\_2682.5MHz\_RB\_75\_0\_NTNV

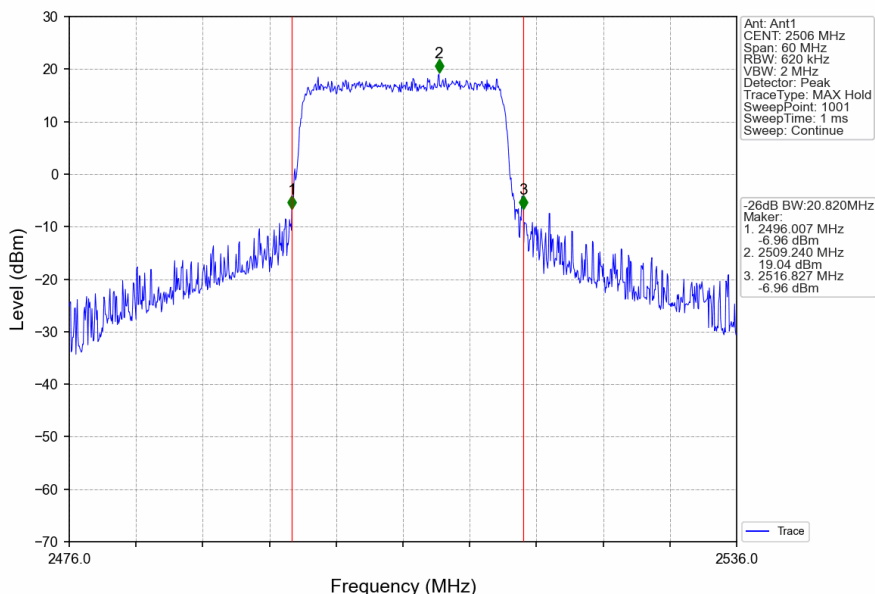


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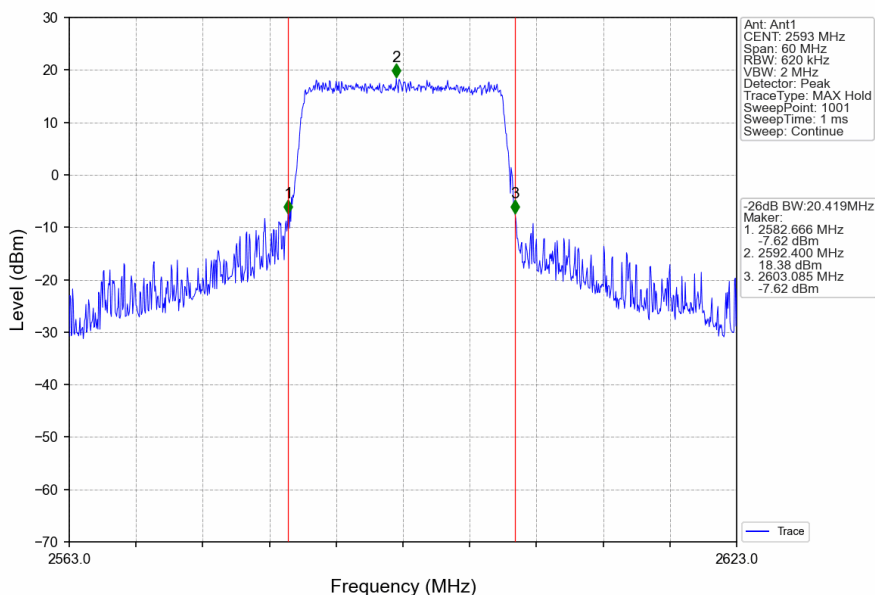
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Band41\_20MHz\_QPSK\_LCH\_2506MHz\_RB\_100\_0\_NTNV



Band41\_20MHz\_QPSK\_MCH\_2593MHz\_RB\_100\_0\_NTNV



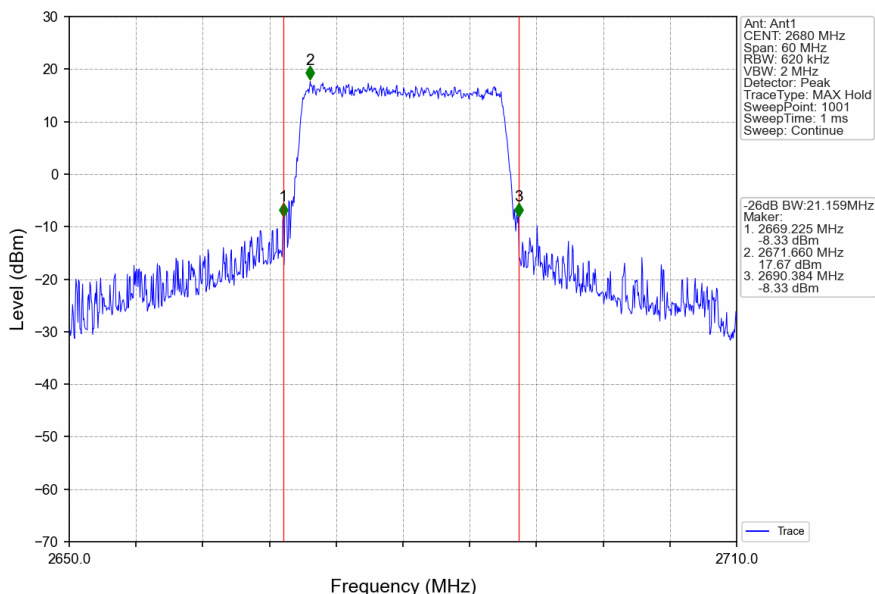
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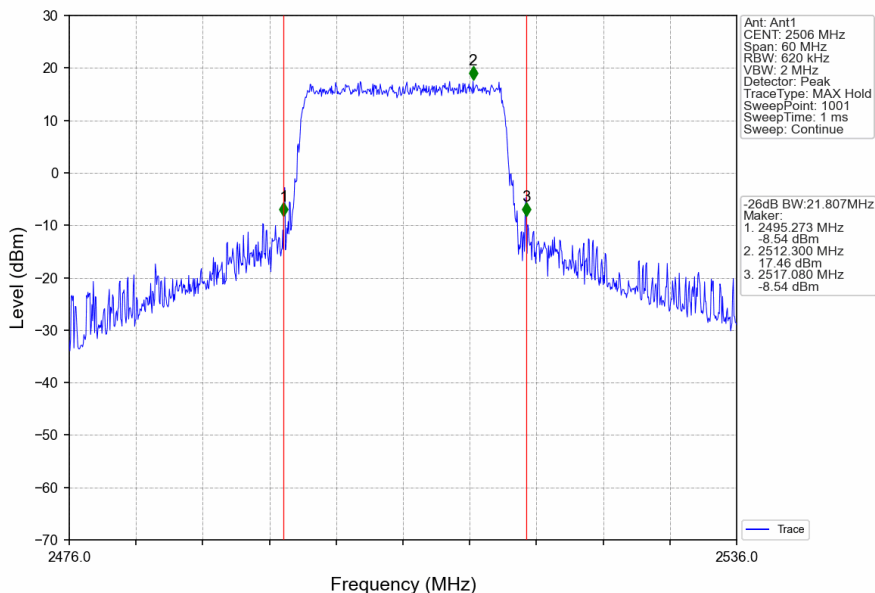
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Band41\_20MHz\_QPSK\_HCH\_2680MHz\_RB\_100\_0\_NTNV



Band41\_20MHz\_16QAM\_LCH\_2506MHz\_RB\_100\_0\_NTNV

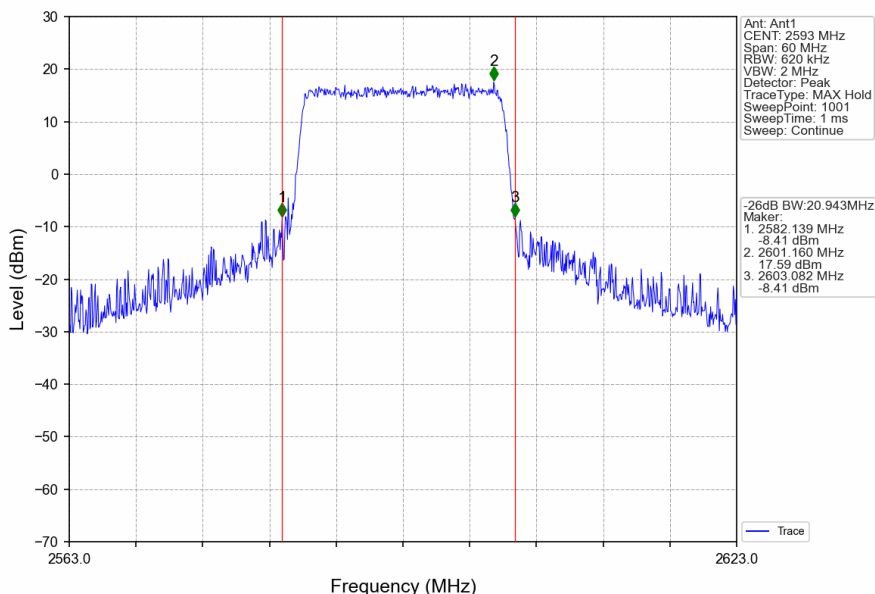


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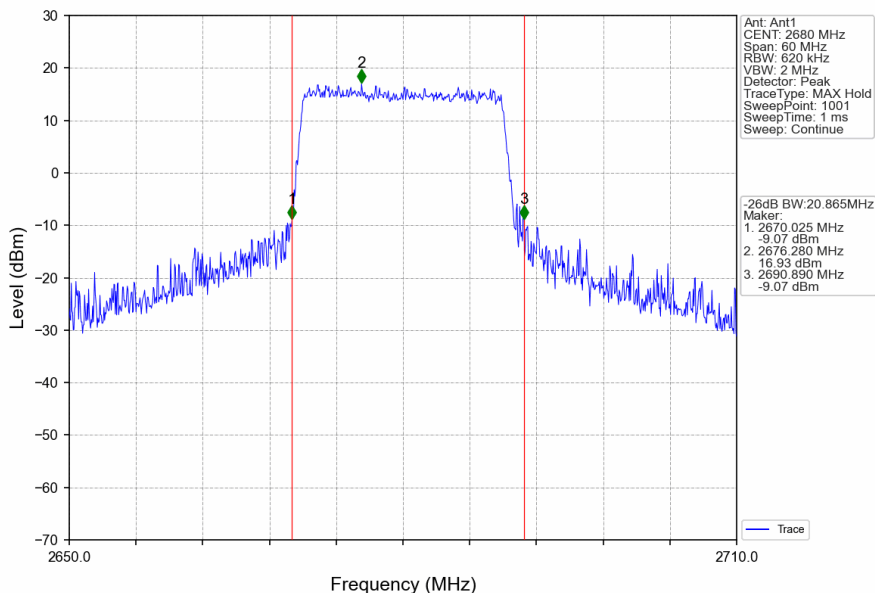
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Band41\_20MHz\_16QAM\_MCH\_2593MHz\_RB\_100\_0\_NTNV



Band41\_20MHz\_16QAM\_HCH\_2680MHz\_RB\_100\_0\_NTNV



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## 4. Peak-Average Ratio

### 4.1 Test Result

#### 4.1.1 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	7.05	<=13	Pass
	2593	25	0	7.30	<=13	Pass
	2687.5	25	0	7.08	<=13	Pass
16QAM	2498.5	25	0	7.95	<=13	Pass
	2593	25	0	8.14	<=13	Pass
	2687.5	25	0	8.12	<=13	Pass

#### 4.1.2 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	7.18	<=13	Pass
	2593	50	0	7.54	<=13	Pass
	2685	50	0	7.23	<=13	Pass
16QAM	2501	50	0	7.90	<=13	Pass
	2593	50	0	8.08	<=13	Pass
	2685	50	0	7.89	<=13	Pass

#### 4.1.3 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	6.86	<=13	Pass
	2593	75	0	7.71	<=13	Pass
	2682.5	75	0	7.19	<=13	Pass
16QAM	2503.5	75	0	7.72	<=13	Pass



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	2593	75	0	8.48	<=13	Pass
	2682.5	75	0	7.49	<=13	Pass

## 4.1.4 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	7.14	<=13	Pass
	2593	100	0	6.91	<=13	Pass
	2680	100	0	7.23	<=13	Pass
16QAM	2506	100	0	7.94	<=13	Pass
	2593	100	0	8.09	<=13	Pass
	2680	100	0	7.65	<=13	Pass



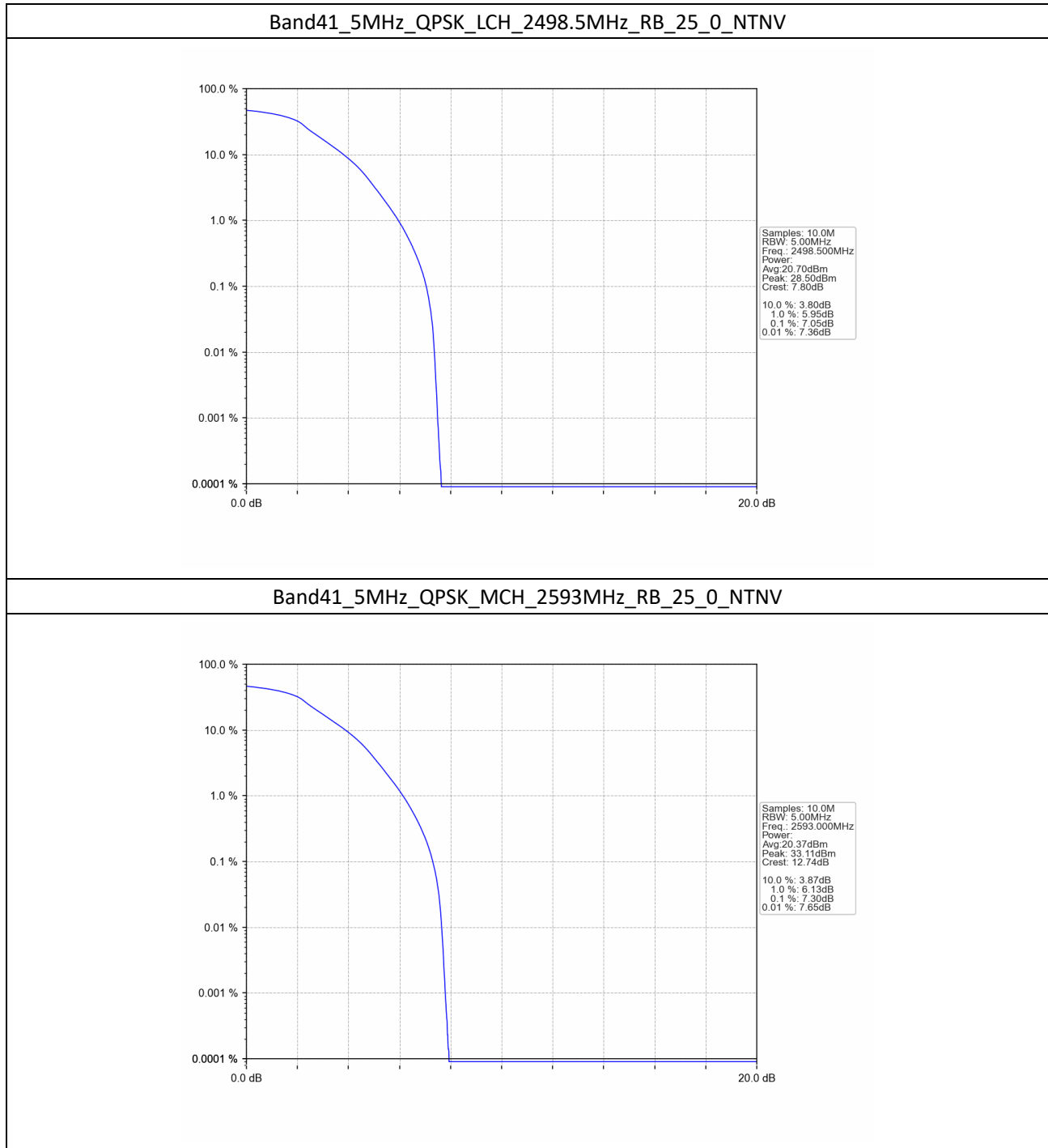
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### 4.2 Test Graph

#### 4.2.1 B41\_5MHz



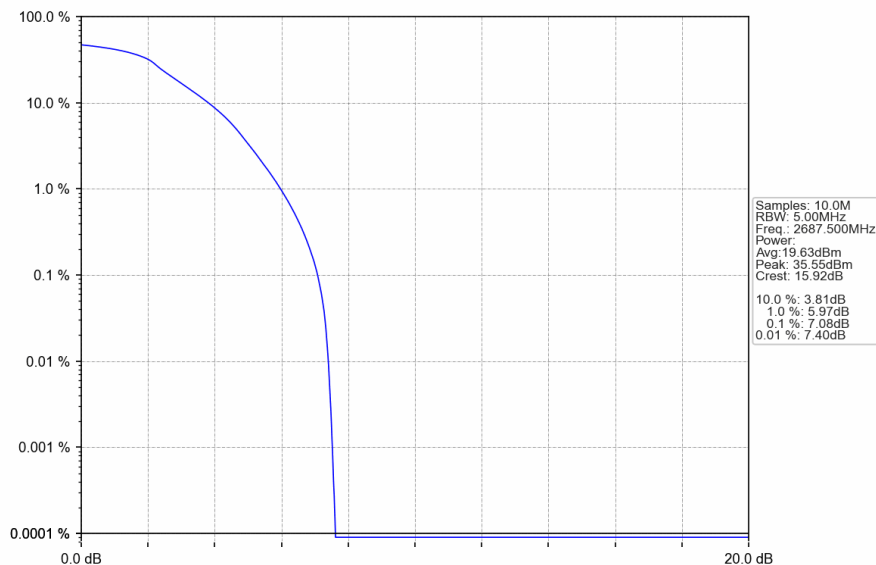
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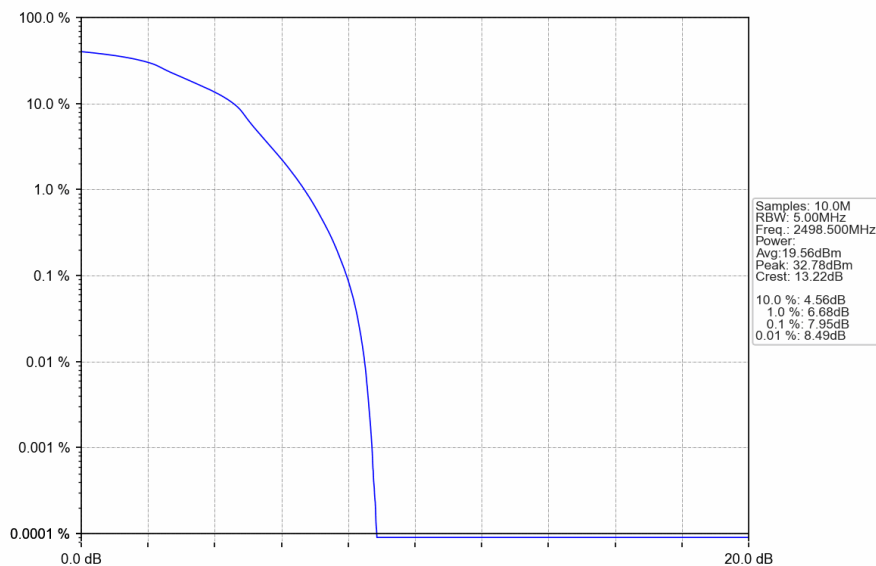
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Band41\_5MHz\_QPSK\_HCH\_2687.5MHz\_RB\_25\_0\_NTNV



Band41\_5MHz\_16QAM\_LCH\_2498.5MHz\_RB\_25\_0\_NTNV

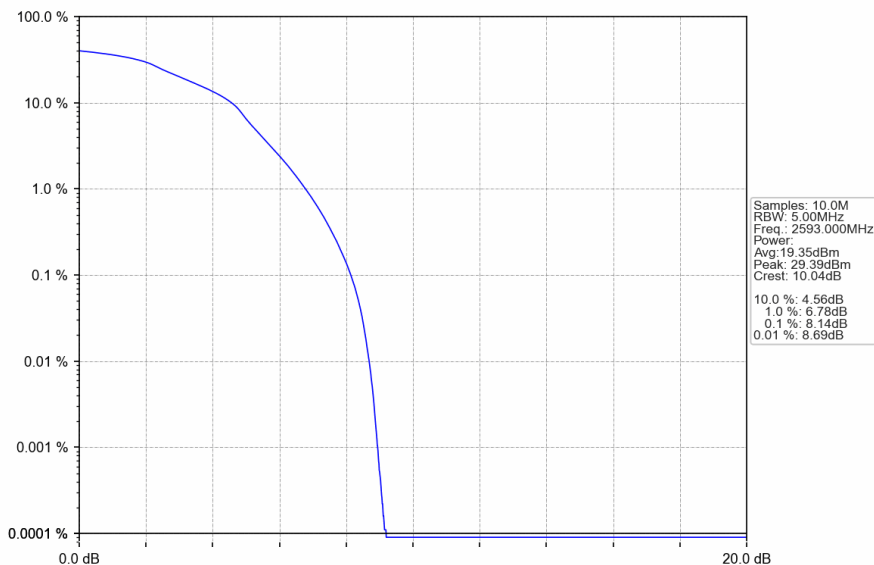


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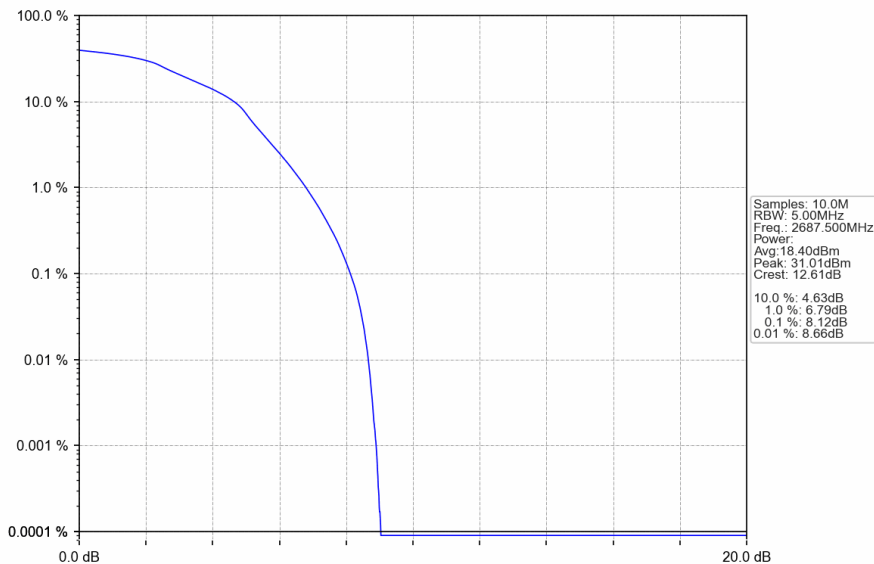
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Band41\_5MHz\_16QAM\_MCH\_2593MHz\_RB\_25\_0\_NTNV



Band41\_5MHz\_16QAM\_HCH\_2687.5MHz\_RB\_25\_0\_NTNV



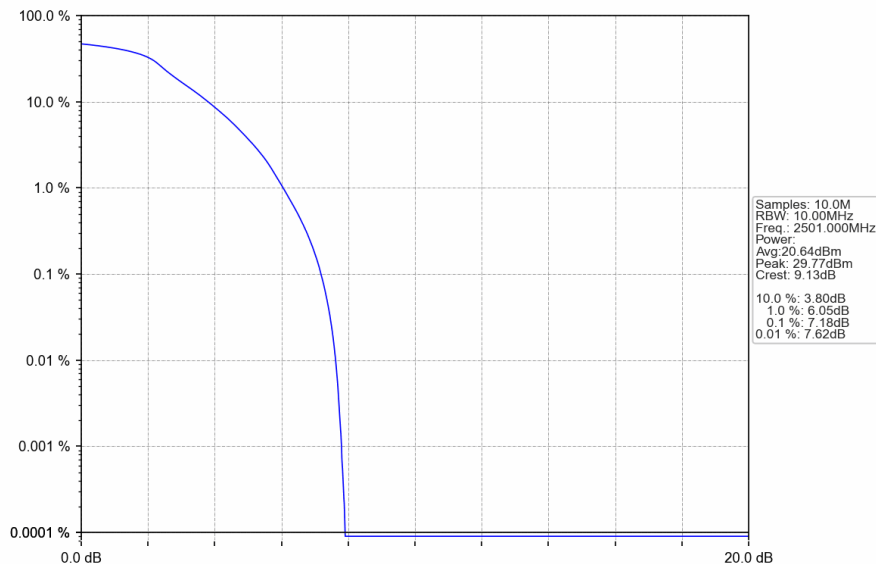
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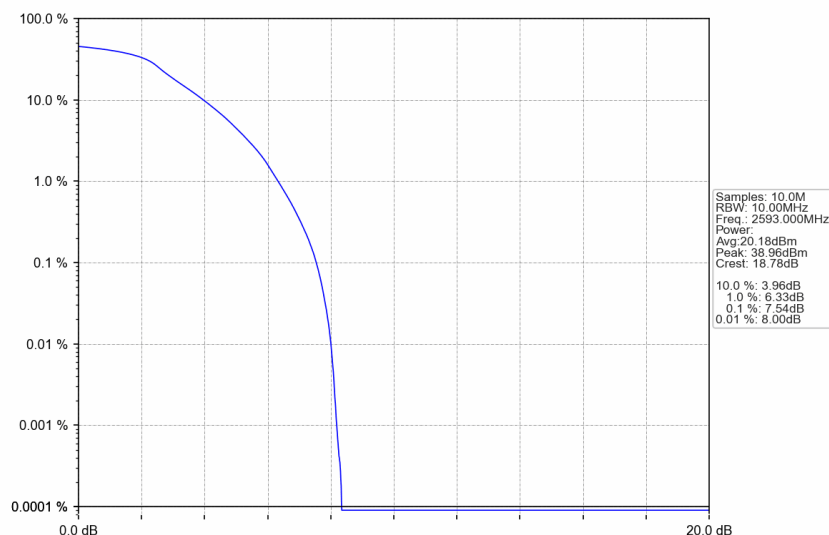
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### 4.2.2 B41\_10MHz

Band41\_10MHz\_QPSK\_LCH\_2501MHz\_RB\_50\_0\_NTNV



Band41\_10MHz\_QPSK\_MCH\_2593MHz\_RB\_50\_0\_NTNV



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