

Appendix 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 / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2557.5	1	0	22.46	1.30	23.76	<=33.01	Pass
			13	22.44	1.30	23.74	<=33.01	Pass
			24	22.48	1.30	23.78	<=33.01	Pass
		12	0	21.40	1.30	22.70	<=33.01	Pass
			6	21.35	1.30	22.65	<=33.01	Pass
			13	21.34	1.30	22.64	<=33.01	Pass
		25	0	21.40	1.30	22.70	<=33.01	Pass
	2605	1	0	22.60	1.30	23.90	<=33.01	Pass
			13	22.46	1.30	23.76	<=33.01	Pass
			24	22.49	1.30	23.79	<=33.01	Pass
		12	0	21.48	1.30	22.78	<=33.01	Pass
			6	21.50	1.30	22.80	<=33.01	Pass
			13	21.45	1.30	22.75	<=33.01	Pass
		25	0	21.52	1.30	22.82	<=33.01	Pass
	2652.5	1	0	23.05	1.30	24.35	<=33.01	Pass
			13	23.03	1.30	24.33	<=33.01	Pass
			24	22.88	1.30	24.18	<=33.01	Pass
		12	0	22.05	1.30	23.35	<=33.01	Pass
			6	22.11	1.30	23.41	<=33.01	Pass
			13	22.11	1.30	23.41	<=33.01	Pass
		25	0	22.14	1.30	23.44	<=33.01	Pass
16QAM	2557.5	1	0	21.39	1.30	22.69	<=33.01	Pass
			13	21.64	1.30	22.94	<=33.01	Pass
			24	21.45	1.30	22.75	<=33.01	Pass
		12	0	20.40	1.30	21.70	<=33.01	Pass
			6	20.29	1.30	21.59	<=33.01	Pass
			13	20.36	1.30	21.66	<=33.01	Pass
		25	0	20.31	1.30	21.61	<=33.01	Pass
	2605	1	0	21.32	1.30	22.62	<=33.01	Pass
			13	21.33	1.30	22.63	<=33.01	Pass
			24	21.48	1.30	22.78	<=33.01	Pass
		12	0	20.48	1.30	21.78	<=33.01	Pass
			6	20.45	1.30	21.75	<=33.01	Pass
			13	20.51	1.30	21.81	<=33.01	Pass
		25	0	20.48	1.30	21.78	<=33.01	Pass
	2652.5	1	0	21.45	1.30	22.75	<=33.01	Pass
			13	21.53	1.30	22.83	<=33.01	Pass
			24	21.87	1.30	23.17	<=33.01	Pass
		12	0	21.16	1.30	22.46	<=33.01	Pass
			6	21.09	1.30	22.39	<=33.01	Pass
			13	21.17	1.30	22.47	<=33.01	Pass
		25	0	21.07	1.30	22.37	<=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	2560	1	0	22.39	1.30	23.69	<=33.01	Pass
			25	22.41	1.30	23.71	<=33.01	Pass
			49	22.35	1.30	23.65	<=33.01	Pass
		25	0	21.36	1.30	22.66	<=33.01	Pass
			13	21.32	1.30	22.62	<=33.01	Pass
			25	21.41	1.30	22.71	<=33.01	Pass
		50	0	21.41	1.30	22.71	<=33.01	Pass
	2605	1	0	22.40	1.30	23.70	<=33.01	Pass
			25	22.46	1.30	23.76	<=33.01	Pass
			49	22.39	1.30	23.69	<=33.01	Pass
		25	0	21.46	1.30	22.76	<=33.01	Pass
			13	21.52	1.30	22.82	<=33.01	Pass
			25	21.52	1.30	22.82	<=33.01	Pass
		50	0	21.52	1.30	22.82	<=33.01	Pass
	2650	1	0	22.97	1.30	24.27	<=33.01	Pass
			25	23.05	1.30	24.35	<=33.01	Pass
			49	23.09	1.30	24.39	<=33.01	Pass
		25	0	22.04	1.30	23.34	<=33.01	Pass
			13	22.06	1.30	23.36	<=33.01	Pass
			25	22.09	1.30	23.39	<=33.01	Pass
		50	0	22.08	1.30	23.38	<=33.01	Pass
16QAM	2560	1	0	21.27	1.30	22.57	<=33.01	Pass
			25	21.31	1.30	22.61	<=33.01	Pass
			49	21.64	1.30	22.94	<=33.01	Pass
		25	0	20.41	1.30	21.71	<=33.01	Pass
			13	20.32	1.30	21.62	<=33.01	Pass
			25	20.41	1.30	21.71	<=33.01	Pass
		50	0	20.36	1.30	21.66	<=33.01	Pass
	2605	1	0	21.19	1.30	22.49	<=33.01	Pass
			25	21.39	1.30	22.69	<=33.01	Pass
			49	21.20	1.30	22.50	<=33.01	Pass
		25	0	20.49	1.30	21.79	<=33.01	Pass
			13	20.52	1.30	21.82	<=33.01	Pass
			25	20.58	1.30	21.88	<=33.01	Pass
		50	0	20.48	1.30	21.78	<=33.01	Pass
	2650	1	0	21.85	1.30	23.15	<=33.01	Pass
			25	21.66	1.30	22.96	<=33.01	Pass
			49	21.79	1.30	23.09	<=33.01	Pass
		25	0	21.04	1.30	22.34	<=33.01	Pass
			13	21.10	1.30	22.40	<=33.01	Pass
			25	21.12	1.30	22.42	<=33.01	Pass
		50	0	21.05	1.30	22.35	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.3 B41_15MHz_EIRP

Band: 41 / Bandwidth: 15MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2562.5	1	0	22.32	1.30	23.62	<=33.01	Pass
			38	22.41	1.30	23.71	<=33.01	Pass
			74	22.25	1.30	23.55	<=33.01	Pass
		36	0	21.31	1.30	22.61	<=33.01	Pass
			18	21.34	1.30	22.64	<=33.01	Pass
			39	21.35	1.30	22.65	<=33.01	Pass
		75	0	21.35	1.30	22.65	<=33.01	Pass
	2605	1	0	22.30	1.30	23.60	<=33.01	Pass
			38	22.54	1.30	23.84	<=33.01	Pass

16QAM	2647.5	36	74	22.36	1.30	23.66	<=33.01	Pass
			0	21.43	1.30	22.73	<=33.01	Pass
			18	21.46	1.30	22.76	<=33.01	Pass
			39	21.50	1.30	22.80	<=33.01	Pass
		75	0	21.50	1.30	22.80	<=33.01	Pass
		1	0	22.88	1.30	24.18	<=33.01	Pass
			38	22.99	1.30	24.29	<=33.01	Pass
			74	23.10	1.30	24.40	<=33.01	Pass
			0	21.95	1.30	23.25	<=33.01	Pass
		36	18	21.97	1.30	23.27	<=33.01	Pass
			39	22.03	1.30	23.33	<=33.01	Pass
			0	22.00	1.30	23.30	<=33.01	Pass
	2562.5	1	0	21.61	1.30	22.91	<=33.01	Pass
			38	21.69	1.30	22.99	<=33.01	Pass
			74	21.14	1.30	22.44	<=33.01	Pass
		36	0	20.28	1.30	21.58	<=33.01	Pass
			18	20.29	1.30	21.59	<=33.01	Pass
			39	20.38	1.30	21.68	<=33.01	Pass
		75	0	20.34	1.30	21.64	<=33.01	Pass
		1	0	21.14	1.30	22.44	<=33.01	Pass
			38	21.31	1.30	22.61	<=33.01	Pass
			74	21.14	1.30	22.44	<=33.01	Pass
		36	0	20.43	1.30	21.73	<=33.01	Pass
			18	20.48	1.30	21.78	<=33.01	Pass
			39	20.52	1.30	21.82	<=33.01	Pass
	2647.5	1	0	21.52	1.30	22.82	<=33.01	Pass
			38	22.05	1.30	23.35	<=33.01	Pass
			74	21.75	1.30	23.05	<=33.01	Pass
		36	0	20.96	1.30	22.26	<=33.01	Pass
			18	21.01	1.30	22.31	<=33.01	Pass
			39	21.05	1.30	22.35	<=33.01	Pass
		75	0	21.03	1.30	22.33	<=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	2565	1	0	22.17	1.30	23.47	<=33.01	Pass
			50	22.29	1.30	23.59	<=33.01	Pass
			99	22.39	1.30	23.69	<=33.01	Pass
		50	0	21.35	1.30	22.65	<=33.01	Pass
			25	21.34	1.30	22.64	<=33.01	Pass
			50	21.34	1.30	22.64	<=33.01	Pass
		100	0	21.35	1.30	22.65	<=33.01	Pass
		1	0	22.19	1.30	23.49	<=33.01	Pass
			50	22.42	1.30	23.72	<=33.01	Pass
			99	22.37	1.30	23.67	<=33.01	Pass
		50	0	21.46	1.30	22.76	<=33.01	Pass
			25	21.57	1.30	22.87	<=33.01	Pass
			50	21.59	1.30	22.89	<=33.01	Pass
		100	0	21.49	1.30	22.79	<=33.01	Pass
	2645	1	0	22.80	1.30	24.10	<=33.01	Pass
			50	23.02	1.30	24.32	<=33.01	Pass
			99	22.98	1.30	24.28	<=33.01	Pass
		50	0	21.96	1.30	23.26	<=33.01	Pass



16QAM	2565	100	25	22.03	1.30	23.33	<=33.01	Pass
			50	22.05	1.30	23.35	<=33.01	Pass
			0	21.98	1.30	23.28	<=33.01	Pass
		1	0	20.84	1.30	22.14	<=33.01	Pass
			50	21.59	1.30	22.89	<=33.01	Pass
			99	21.55	1.30	22.85	<=33.01	Pass
		50	0	20.38	1.30	21.68	<=33.01	Pass
			25	20.30	1.30	21.60	<=33.01	Pass
			50	20.35	1.30	21.65	<=33.01	Pass
		100	0	20.35	1.30	21.65	<=33.01	Pass
	2605	1	0	21.38	1.30	22.68	<=33.01	Pass
			50	21.56	1.30	22.86	<=33.01	Pass
			99	21.24	1.30	22.54	<=33.01	Pass
		50	0	20.41	1.30	21.71	<=33.01	Pass
			25	20.49	1.30	21.79	<=33.01	Pass
			50	20.57	1.30	21.87	<=33.01	Pass
		100	0	20.50	1.30	21.80	<=33.01	Pass
	2645	1	0	22.00	1.30	23.30	<=33.01	Pass
			50	21.89	1.30	23.19	<=33.01	Pass
			99	21.89	1.30	23.19	<=33.01	Pass
		50	0	20.94	1.30	22.24	<=33.01	Pass
			25	21.01	1.30	22.31	<=33.01	Pass
			50	21.00	1.30	22.30	<=33.01	Pass
		100	0	20.97	1.30	22.27	<=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	2557.5	25	0	20	3.27	-4.692	-0.0018	-2.5 to 2.5	Pass
					3.85	-3.734	-0.0015	-2.5 to 2.5	Pass
					4.43	-12.517	-0.0049	-2.5 to 2.5	Pass
				-30	3.85	-10.543	-0.0041	-2.5 to 2.5	Pass
				-20	3.85	-14.791	-0.0058	-2.5 to 2.5	Pass
				-10	3.85	-9.871	-0.0039	-2.5 to 2.5	Pass
				0	3.85	-3.061	-0.0012	-2.5 to 2.5	Pass
				10	3.85	-8.283	-0.0032	-2.5 to 2.5	Pass
				30	3.85	3.905	0.0015	-2.5 to 2.5	Pass
				40	3.85	-3.347	-0.0013	-2.5 to 2.5	Pass
	2605	25	0	20	3.85	-9.685	-0.0038	-2.5 to 2.5	Pass
					3.27	-2.260	-0.0009	-2.5 to 2.5	Pass
					3.85	1.545	0.0006	-2.5 to 2.5	Pass
				-30	4.43	3.304	0.0013	-2.5 to 2.5	Pass
					3.85	-7.997	-0.0031	-2.5 to 2.5	Pass
					3.85	-5.836	-0.0022	-2.5 to 2.5	Pass
				-20	3.85	13.633	0.0052	-2.5 to 2.5	Pass
				-10	3.85	6.609	0.0025	-2.5 to 2.5	Pass
				0	3.85	12.746	0.0049	-2.5 to 2.5	Pass
				10	3.85	-2.789	-0.0011	-2.5 to 2.5	Pass
				30	3.85	7.110	0.0027	-2.5 to 2.5	Pass

	2652.5	25	0	50	3.85	2.446	0.0009	-2.5 to 2.5	Pass
				20	3.27	8.984	0.0034	-2.5 to 2.5	Pass
					3.85	-7.267	-0.0027	-2.5 to 2.5	Pass
					4.43	7.224	0.0027	-2.5 to 2.5	Pass
				-30	3.85	2.246	0.0008	-2.5 to 2.5	Pass
				-20	3.85	-6.051	-0.0023	-2.5 to 2.5	Pass
				-10	3.85	5.894	0.0022	-2.5 to 2.5	Pass
				0	3.85	-13.990	-0.0053	-2.5 to 2.5	Pass
				10	3.85	10.629	0.0040	-2.5 to 2.5	Pass
				30	3.85	-6.151	-0.0023	-2.5 to 2.5	Pass
				40	3.85	8.225	0.0031	-2.5 to 2.5	Pass
				50	3.85	5.336	0.0020	-2.5 to 2.5	Pass
16QAM	2557.5	25	0	20	3.27	21.744	0.0085	-2.5 to 2.5	Pass
					3.85	6.709	0.0026	-2.5 to 2.5	Pass
					4.43	-4.578	-0.0018	-2.5 to 2.5	Pass
					3.85	10.614	0.0042	-2.5 to 2.5	Pass
				-30	3.85	-9.384	-0.0037	-2.5 to 2.5	Pass
				-20	3.85	-2.789	-0.0011	-2.5 to 2.5	Pass
				-10	3.85	10.200	0.0040	-2.5 to 2.5	Pass
				0	3.85	-8.798	-0.0034	-2.5 to 2.5	Pass
				10	3.85	5.908	0.0023	-2.5 to 2.5	Pass
				30	3.85	-0.672	-0.0003	-2.5 to 2.5	Pass
				40	3.85	-1.802	-0.0007	-2.5 to 2.5	Pass
				50	3.85	1.059	0.0004	-2.5 to 2.5	Pass
	2605	25	0	20	3.85	3.448	0.0013	-2.5 to 2.5	Pass
					4.43	0.715	0.0003	-2.5 to 2.5	Pass
					3.85	2.003	0.0008	-2.5 to 2.5	Pass
					3.85	-4.878	-0.0019	-2.5 to 2.5	Pass
				-30	3.85	-4.320	-0.0017	-2.5 to 2.5	Pass
				-20	3.85	11.058	0.0042	-2.5 to 2.5	Pass
				-10	3.85	-2.546	-0.0010	-2.5 to 2.5	Pass
				0	3.85	-0.658	-0.0003	-2.5 to 2.5	Pass
				10	3.85	-0.0003	-0.0003	-2.5 to 2.5	Pass
				30	3.85	1.588	0.0006	-2.5 to 2.5	Pass
				40	3.85	-4.263	-0.0016	-2.5 to 2.5	Pass
				50	3.85	-0.243	-0.0001	-2.5 to 2.5	Pass
	2652.5	25	0	20	3.85	-6.523	-0.0025	-2.5 to 2.5	Pass
					4.43	-3.977	-0.0015	-2.5 to 2.5	Pass
					3.85	-7.954	-0.0030	-2.5 to 2.5	Pass
					3.85	-0.458	-0.0002	-2.5 to 2.5	Pass
				-30	3.85	11.101	0.0042	-2.5 to 2.5	Pass
				-20	3.85	-1.616	-0.0006	-2.5 to 2.5	Pass
				-10	3.85	-1.073	-0.0004	-2.5 to 2.5	Pass
				0	3.85	-8.769	-0.0033	-2.5 to 2.5	Pass
				10	3.85	10.557	0.0040	-2.5 to 2.5	Pass
				30	3.85	-5.236	-0.0020	-2.5 to 2.5	Pass
				40	3.85	-5.236	-0.0020	-2.5 to 2.5	Pass
				50	3.85	-5.236	-0.0020	-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	2560	50	0	20	3.27	-0.472	-0.0002	-2.5 to 2.5	Pass
					3.85	0.615	0.0002	-2.5 to 2.5	Pass
					4.43	-2.990	-0.0012	-2.5 to 2.5	Pass
				-30	3.85	-4.191	-0.0016	-2.5 to 2.5	Pass
				-20	3.85	-5.565	-0.0022	-2.5 to 2.5	Pass
				-10	3.85	5.422	0.0021	-2.5 to 2.5	Pass
				0	3.85	-2.289	-0.0009	-2.5 to 2.5	Pass
				10	3.85	-2.289	-0.0009	-2.5 to 2.5	Pass

				10	3.85	8.383	0.0033	-2.5 to 2.5	Pass
				30	3.85	5.364	0.0021	-2.5 to 2.5	Pass
				40	3.85	-1.488	-0.0006	-2.5 to 2.5	Pass
				50	3.85	4.034	0.0016	-2.5 to 2.5	Pass
	2605	50	0	20	3.27	2.403	0.0009	-2.5 to 2.5	Pass
					3.85	1.116	0.0004	-2.5 to 2.5	Pass
					4.43	-2.975	-0.0011	-2.5 to 2.5	Pass
				-30	3.85	3.362	0.0013	-2.5 to 2.5	Pass
				-20	3.85	7.453	0.0029	-2.5 to 2.5	Pass
				-10	3.85	-1.159	-0.0004	-2.5 to 2.5	Pass
				0	3.85	-0.343	-0.0001	-2.5 to 2.5	Pass
				10	3.85	6.037	0.0023	-2.5 to 2.5	Pass
				30	3.85	-5.293	-0.0020	-2.5 to 2.5	Pass
				40	3.85	1.388	0.0005	-2.5 to 2.5	Pass
				50	3.85	9.656	0.0037	-2.5 to 2.5	Pass
	2650	50	0	20	3.27	3.133	0.0012	-2.5 to 2.5	Pass
					3.85	0.472	0.0002	-2.5 to 2.5	Pass
					4.43	0.701	0.0003	-2.5 to 2.5	Pass
				-30	3.85	0.587	0.0002	-2.5 to 2.5	Pass
				-20	3.85	5.021	0.0019	-2.5 to 2.5	Pass
				-10	3.85	-1.431	-0.0005	-2.5 to 2.5	Pass
				0	3.85	0.587	0.0002	-2.5 to 2.5	Pass
				10	3.85	-3.662	-0.0014	-2.5 to 2.5	Pass
				30	3.85	3.905	0.0015	-2.5 to 2.5	Pass
				40	3.85	-4.177	-0.0016	-2.5 to 2.5	Pass
				50	3.85	-1.044	-0.0004	-2.5 to 2.5	Pass
16QAM	2560	50	0	20	3.27	3.319	0.0013	-2.5 to 2.5	Pass
					3.85	2.246	0.0009	-2.5 to 2.5	Pass
					4.43	-5.679	-0.0022	-2.5 to 2.5	Pass
				-30	3.85	-5.779	-0.0023	-2.5 to 2.5	Pass
				-20	3.85	0.000	0.0000	-2.5 to 2.5	Pass
				-10	3.85	1.445	0.0006	-2.5 to 2.5	Pass
				0	3.85	-0.229	-0.0001	-2.5 to 2.5	Pass
				10	3.85	0.672	0.0003	-2.5 to 2.5	Pass
				30	3.85	1.845	0.0007	-2.5 to 2.5	Pass
				40	3.85	4.020	0.0016	-2.5 to 2.5	Pass
				50	3.85	5.865	0.0023	-2.5 to 2.5	Pass
	2605	50	0	20	3.27	11.616	0.0045	-2.5 to 2.5	Pass
					3.85	2.904	0.0011	-2.5 to 2.5	Pass
					4.43	1.087	0.0004	-2.5 to 2.5	Pass
				-30	3.85	7.167	0.0028	-2.5 to 2.5	Pass
				-20	3.85	-1.130	-0.0004	-2.5 to 2.5	Pass
				-10	3.85	0.930	0.0004	-2.5 to 2.5	Pass
				0	3.85	-0.386	-0.0001	-2.5 to 2.5	Pass
				10	3.85	1.559	0.0006	-2.5 to 2.5	Pass
				30	3.85	-1.788	-0.0007	-2.5 to 2.5	Pass
				40	3.85	1.345	0.0005	-2.5 to 2.5	Pass
				50	3.85	-4.907	-0.0019	-2.5 to 2.5	Pass
	2650	50	0	20	3.27	4.034	0.0015	-2.5 to 2.5	Pass
					3.85	0.887	0.0003	-2.5 to 2.5	Pass
					4.43	0.315	0.0001	-2.5 to 2.5	Pass
				-30	3.85	2.432	0.0009	-2.5 to 2.5	Pass
				-20	3.85	-3.777	-0.0014	-2.5 to 2.5	Pass
				-10	3.85	7.038	0.0027	-2.5 to 2.5	Pass
				0	3.85	-0.057	0.0000	-2.5 to 2.5	Pass
				10	3.85	0.515	0.0002	-2.5 to 2.5	Pass
				30	3.85	-2.275	-0.0009	-2.5 to 2.5	Pass
				40	3.85	4.120	0.0016	-2.5 to 2.5	Pass
				50	3.85	-5.565	-0.0021	-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	2562.5	75	0	20	3.27	2.146	0.0008	-2.5 to 2.5	Pass
					3.85	2.661	0.0010	-2.5 to 2.5	Pass
					4.43	-0.186	-0.0001	-2.5 to 2.5	Pass
				-30	3.85	-2.031	-0.0008	-2.5 to 2.5	Pass
				-20	3.85	5.436	0.0021	-2.5 to 2.5	Pass
				-10	3.85	3.905	0.0015	-2.5 to 2.5	Pass
				0	3.85	1.874	0.0007	-2.5 to 2.5	Pass
				10	3.85	3.405	0.0013	-2.5 to 2.5	Pass
				30	3.85	4.292	0.0017	-2.5 to 2.5	Pass
				40	3.85	8.569	0.0033	-2.5 to 2.5	Pass
				50	3.85	5.364	0.0021	-2.5 to 2.5	Pass
	2605	75	0	20	3.27	6.180	0.0024	-2.5 to 2.5	Pass
					3.85	2.217	0.0009	-2.5 to 2.5	Pass
					4.43	5.307	0.0020	-2.5 to 2.5	Pass
				-30	3.85	4.363	0.0017	-2.5 to 2.5	Pass
				-20	3.85	3.190	0.0012	-2.5 to 2.5	Pass
				-10	3.85	1.030	0.0004	-2.5 to 2.5	Pass
				0	3.85	7.925	0.0030	-2.5 to 2.5	Pass
				10	3.85	3.519	0.0014	-2.5 to 2.5	Pass
				30	3.85	3.977	0.0015	-2.5 to 2.5	Pass
				40	3.85	8.283	0.0032	-2.5 to 2.5	Pass
				50	3.85	-4.706	-0.0018	-2.5 to 2.5	Pass
	2647.5	75	0	20	3.27	4.220	0.0016	-2.5 to 2.5	Pass
					3.85	0.973	0.0004	-2.5 to 2.5	Pass
					4.43	-3.376	-0.0013	-2.5 to 2.5	Pass
				-30	3.85	2.475	0.0009	-2.5 to 2.5	Pass
				-20	3.85	3.519	0.0013	-2.5 to 2.5	Pass
				-10	3.85	0.744	0.0003	-2.5 to 2.5	Pass
				0	3.85	4.106	0.0016	-2.5 to 2.5	Pass
				10	3.85	7.367	0.0028	-2.5 to 2.5	Pass
				30	3.85	7.410	0.0028	-2.5 to 2.5	Pass
				40	3.85	0.701	0.0003	-2.5 to 2.5	Pass
16QAM	2562.5	75	0	20	3.27	-1.659	-0.0006	-2.5 to 2.5	Pass
					3.85	-1.717	-0.0007	-2.5 to 2.5	Pass
					4.43	-2.961	-0.0012	-2.5 to 2.5	Pass
				-30	3.85	4.549	0.0018	-2.5 to 2.5	Pass
				-20	3.85	6.094	0.0024	-2.5 to 2.5	Pass
				-10	3.85	2.933	0.0011	-2.5 to 2.5	Pass
				0	3.85	6.566	0.0026	-2.5 to 2.5	Pass
				10	3.85	5.593	0.0022	-2.5 to 2.5	Pass
				30	3.85	5.064	0.0020	-2.5 to 2.5	Pass
				40	3.85	-8.397	-0.0033	-2.5 to 2.5	Pass
				50	3.85	1.416	0.0006	-2.5 to 2.5	Pass
	2605	75	0	20	3.27	5.093	0.0020	-2.5 to 2.5	Pass
					3.85	5.364	0.0021	-2.5 to 2.5	Pass
					4.43	5.035	0.0019	-2.5 to 2.5	Pass
				-30	3.85	-1.030	-0.0004	-2.5 to 2.5	Pass
				-20	3.85	0.615	0.0002	-2.5 to 2.5	Pass
				-10	3.85	2.360	0.0009	-2.5 to 2.5	Pass
				0	3.85	2.704	0.0010	-2.5 to 2.5	Pass
				10	3.85	0.529	0.0002	-2.5 to 2.5	Pass

	2647.5	75	0	30	3.85	1.760	0.0007	-2.5 to 2.5	Pass
				40	3.85	1.259	0.0005	-2.5 to 2.5	Pass
				50	3.85	6.137	0.0024	-2.5 to 2.5	Pass
				20	3.27	2.661	0.0010	-2.5 to 2.5	Pass
					3.85	-0.529	-0.0002	-2.5 to 2.5	Pass
					4.43	2.789	0.0011	-2.5 to 2.5	Pass
				-30	3.85	1.945	0.0007	-2.5 to 2.5	Pass
				-20	3.85	1.845	0.0007	-2.5 to 2.5	Pass
				-10	3.85	0.386	0.0001	-2.5 to 2.5	Pass
				0	3.85	3.591	0.0014	-2.5 to 2.5	Pass
				10	3.85	8.097	0.0031	-2.5 to 2.5	Pass
				30	3.85	5.107	0.0019	-2.5 to 2.5	Pass
				40	3.85	-1.402	-0.0005	-2.5 to 2.5	Pass
				50	3.85	1.030	0.0004	-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	2565	100	0	20	3.27	5.107	0.0020	-2.5 to 2.5	Pass
					3.85	1.416	0.0006	-2.5 to 2.5	Pass
					4.43	14.377	0.0056	-2.5 to 2.5	Pass
				-30	3.85	5.522	0.0022	-2.5 to 2.5	Pass
				-20	3.85	0.687	0.0003	-2.5 to 2.5	Pass
				-10	3.85	2.117	0.0008	-2.5 to 2.5	Pass
				0	3.85	2.532	0.0010	-2.5 to 2.5	Pass
				10	3.85	3.290	0.0013	-2.5 to 2.5	Pass
				30	3.85	11.444	0.0045	-2.5 to 2.5	Pass
				40	3.85	5.207	0.0020	-2.5 to 2.5	Pass
				50	3.85	1.860	0.0007	-2.5 to 2.5	Pass
	2605	100	0	20	3.27	2.418	0.0009	-2.5 to 2.5	Pass
					3.85	0.615	0.0002	-2.5 to 2.5	Pass
					4.43	1.502	0.0006	-2.5 to 2.5	Pass
				-30	3.85	4.120	0.0016	-2.5 to 2.5	Pass
				-20	3.85	6.566	0.0025	-2.5 to 2.5	Pass
				-10	3.85	3.848	0.0015	-2.5 to 2.5	Pass
				0	3.85	-0.243	-0.0001	-2.5 to 2.5	Pass
				10	3.85	7.353	0.0028	-2.5 to 2.5	Pass
				30	3.85	7.081	0.0027	-2.5 to 2.5	Pass
				40	3.85	5.121	0.0020	-2.5 to 2.5	Pass
				50	3.85	10.400	0.0040	-2.5 to 2.5	Pass
	2645	100	0	20	3.27	1.574	0.0006	-2.5 to 2.5	Pass
					3.85	-1.087	-0.0004	-2.5 to 2.5	Pass
					4.43	2.618	0.0010	-2.5 to 2.5	Pass
				-30	3.85	4.349	0.0016	-2.5 to 2.5	Pass
				-20	3.85	-0.472	-0.0002	-2.5 to 2.5	Pass
				-10	3.85	-2.761	-0.0010	-2.5 to 2.5	Pass
				0	3.85	-0.200	-0.0001	-2.5 to 2.5	Pass
				10	3.85	0.701	0.0003	-2.5 to 2.5	Pass
				30	3.85	-1.502	-0.0006	-2.5 to 2.5	Pass
				40	3.85	1.073	0.0004	-2.5 to 2.5	Pass
				50	3.85	8.168	0.0031	-2.5 to 2.5	Pass
16QAM	2565	100	0	20	3.27	6.351	0.0025	-2.5 to 2.5	Pass
					3.85	2.346	0.0009	-2.5 to 2.5	Pass
					4.43	9.956	0.0039	-2.5 to 2.5	Pass
				-30	3.85	0.887	0.0003	-2.5 to 2.5	Pass
				-20	3.85	8.926	0.0035	-2.5 to 2.5	Pass

				-10	3.85	-3.133	-0.0012	-2.5 to 2.5	Pass
				0	3.85	4.864	0.0019	-2.5 to 2.5	Pass
				10	3.85	7.782	0.0030	-2.5 to 2.5	Pass
				30	3.85	4.492	0.0018	-2.5 to 2.5	Pass
				40	3.85	9.785	0.0038	-2.5 to 2.5	Pass
				50	3.85	3.462	0.0013	-2.5 to 2.5	Pass
	2605	100	0	20	3.27	-1.245	-0.0005	-2.5 to 2.5	Pass
					3.85	0.472	0.0002	-2.5 to 2.5	Pass
					4.43	3.405	0.0013	-2.5 to 2.5	Pass
				-30	3.85	-0.443	-0.0002	-2.5 to 2.5	Pass
				-20	3.85	4.921	0.0019	-2.5 to 2.5	Pass
				-10	3.85	-1.616	-0.0006	-2.5 to 2.5	Pass
				0	3.85	2.060	0.0008	-2.5 to 2.5	Pass
				10	3.85	2.174	0.0008	-2.5 to 2.5	Pass
				30	3.85	0.343	0.0001	-2.5 to 2.5	Pass
				40	3.85	2.933	0.0011	-2.5 to 2.5	Pass
				50	3.85	2.160	0.0008	-2.5 to 2.5	Pass
	2645	100	0	20	3.27	4.606	0.0017	-2.5 to 2.5	Pass
					3.85	-1.616	-0.0006	-2.5 to 2.5	Pass
					4.43	-2.604	-0.0010	-2.5 to 2.5	Pass
				-30	3.85	3.948	0.0015	-2.5 to 2.5	Pass
				-20	3.85	0.758	0.0003	-2.5 to 2.5	Pass
				-10	3.85	2.761	0.0010	-2.5 to 2.5	Pass
				0	3.85	6.466	0.0024	-2.5 to 2.5	Pass
				10	3.85	-1.202	-0.0005	-2.5 to 2.5	Pass
				30	3.85	1.330	0.0005	-2.5 to 2.5	Pass
				40	3.85	-0.744	-0.0003	-2.5 to 2.5	Pass
				50	3.85	-1.516	-0.0006	-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	2605	25	0	Refer To Test Graph		Pass
16QAM	2605	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	2605	50	0	Refer To Test Graph		Pass
16QAM	2605	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	

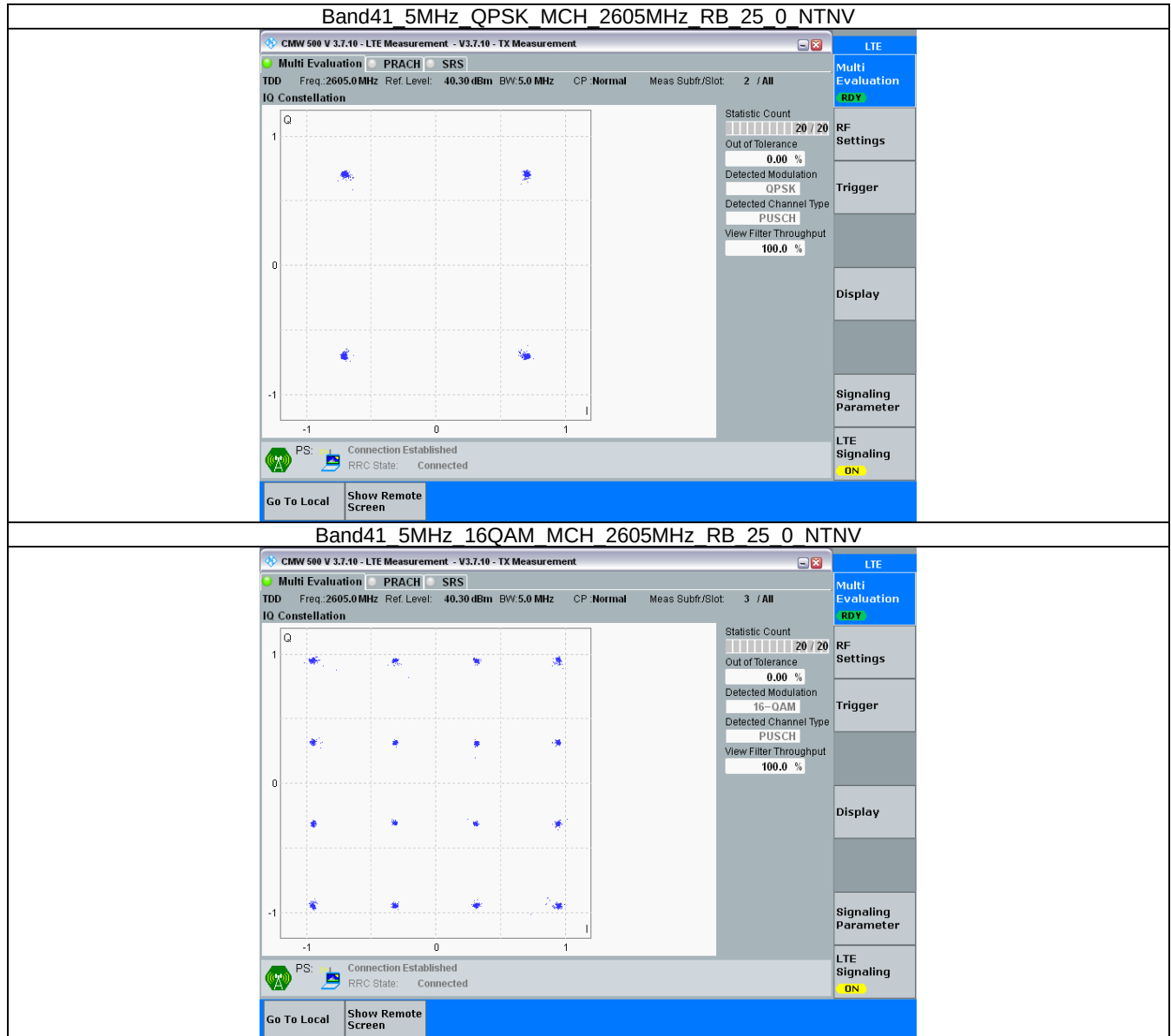
QPSK	2605	75	0	Refer To Test Graph	Pass
16QAM	2605	75	0	Refer To Test Graph	Pass

3.1.4 B41_20MHz

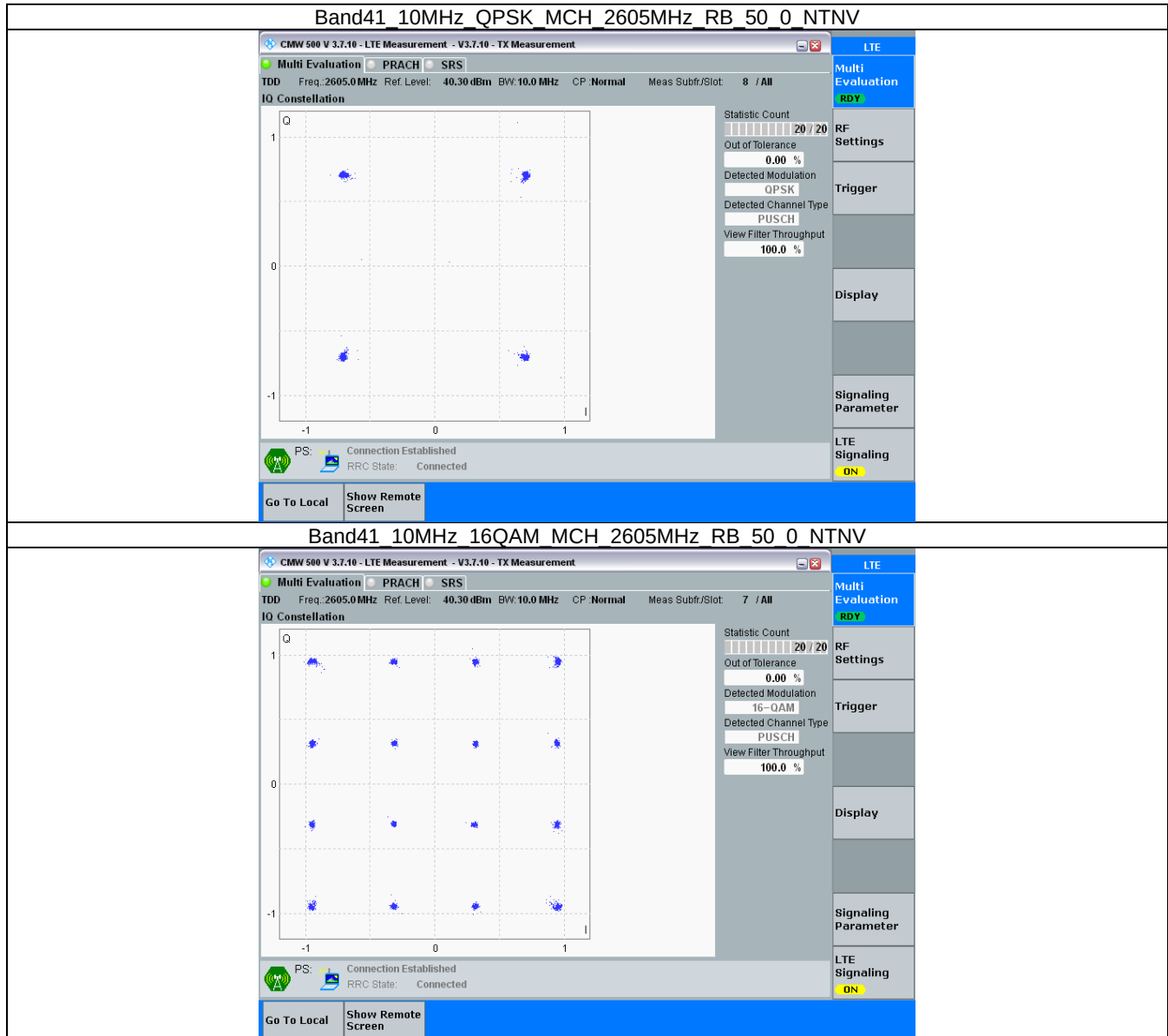
Band: 41 / Bandwidth: 20MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2605	100	0	Refer To Test Graph		Pass
16QAM	2605	100	0	Refer To Test Graph		Pass

3.2 Test Graph

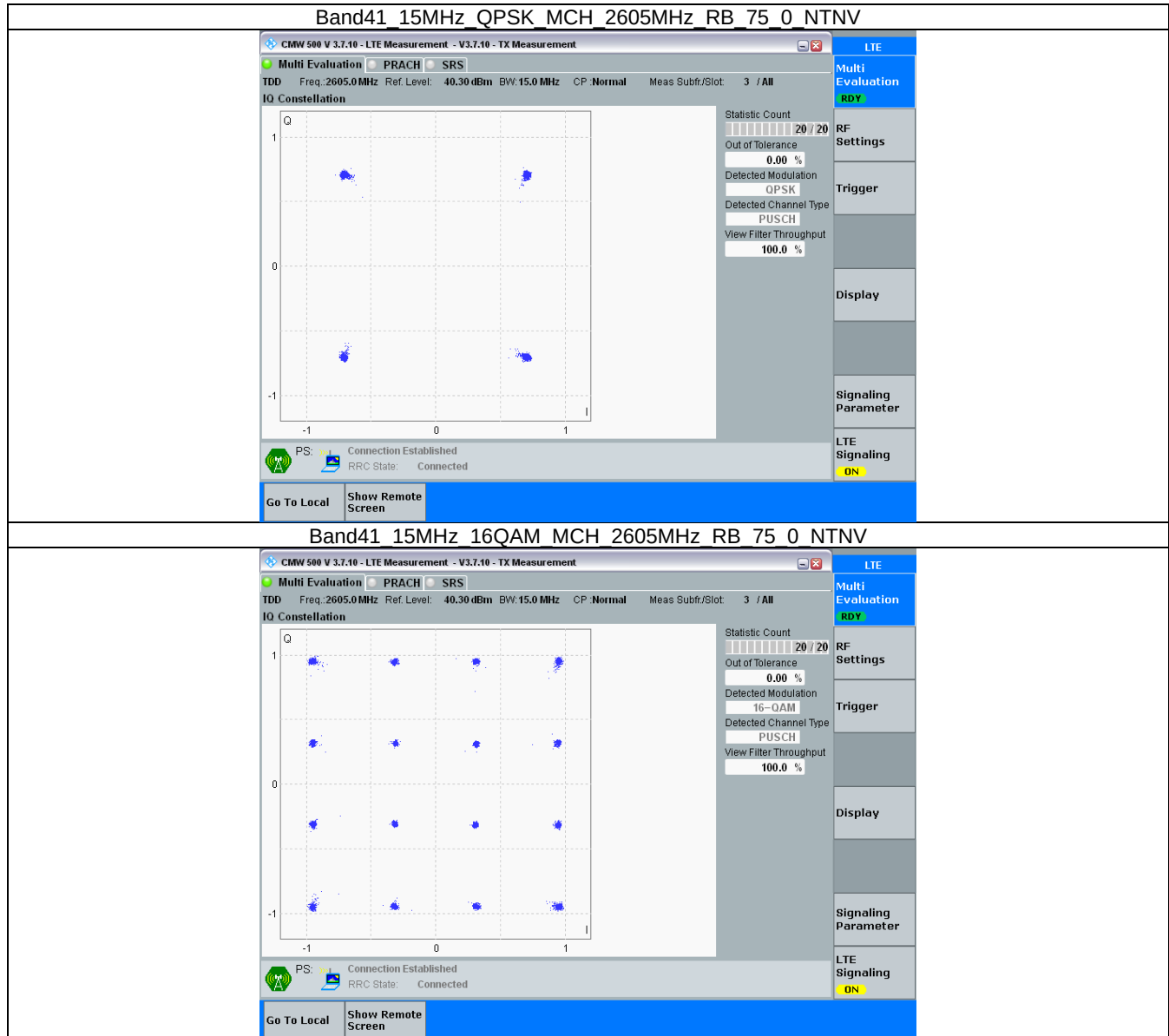
3.2.1 B41_5MHz



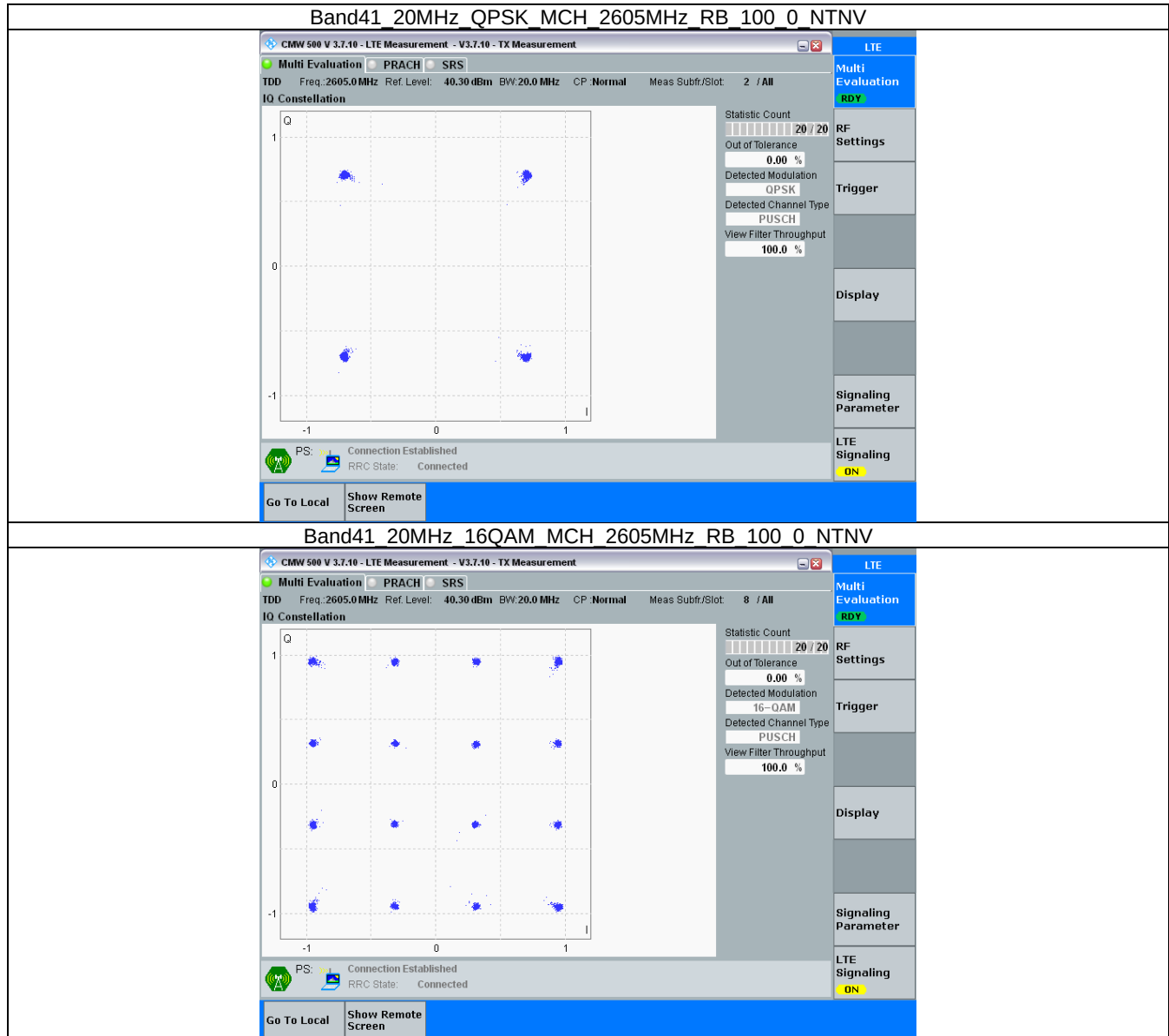
3.2.2 B41_10MHz



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	2557.5	25	0	4.544	/	Pass
		2605	25	0	4.557	/	Pass
		2652.5	25	0	4.558	/	Pass
	16QAM	2557.5	25	0	4.535	/	Pass
		2605	25	0	4.543	/	Pass
		2652.5	25	0	4.563	/	Pass
10	QPSK	2560	50	0	9.066	/	Pass
		2605	50	0	9.088	/	Pass
		2650	50	0	9.070	/	Pass
	16QAM	2560	50	0	9.073	/	Pass
		2605	50	0	9.075	/	Pass
		2650	50	0	9.060	/	Pass
15	QPSK	2562.5	75	0	13.555	/	Pass
		2605	75	0	13.612	/	Pass
		2647.5	75	0	13.609	/	Pass
	16QAM	2562.5	75	0	13.632	/	Pass
		2605	75	0	13.555	/	Pass
		2647.5	75	0	13.636	/	Pass
20	QPSK	2565	100	0	18.130	/	Pass
		2605	100	0	18.093	/	Pass
		2645	100	0	18.121	/	Pass
	16QAM	2565	100	0	18.149	/	Pass
		2605	100	0	18.128	/	Pass
		2645	100	0	18.081	/	Pass

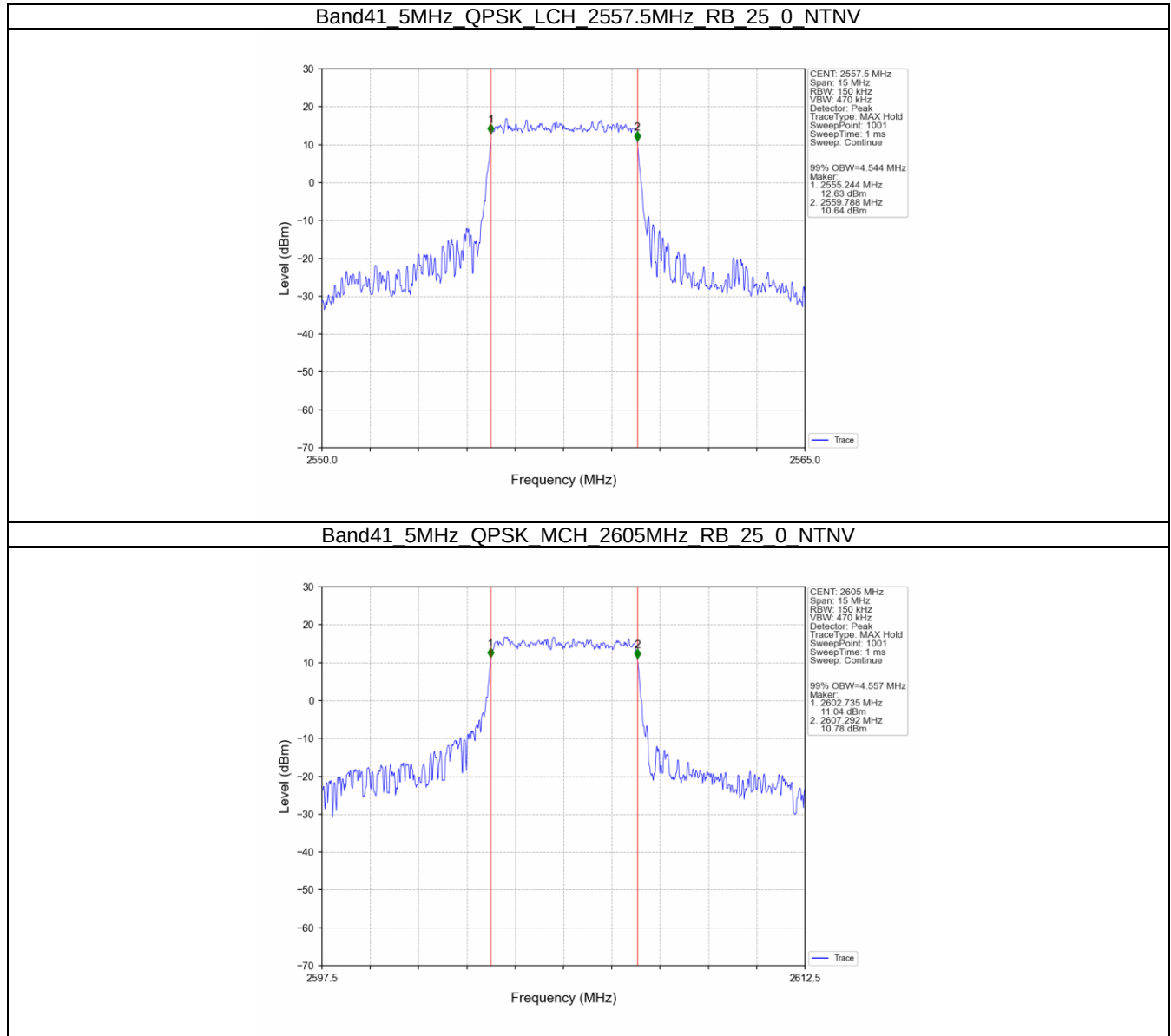
4.1.2 Band41_XDB

Band: 41 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2557.5	25	0	5.162	/	Pass
		2605	25	0	5.596	/	Pass
		2652.5	25	0	5.518	/	Pass
	16QAM	2557.5	25	0	5.153	/	Pass
		2605	25	0	5.041	/	Pass
		2652.5	25	0	5.171	/	Pass
10	QPSK	2560	50	0	10.020	/	Pass
		2605	50	0	12.072	/	Pass
		2650	50	0	10.973	/	Pass
	16QAM	2560	50	0	11.640	/	Pass
		2605	50	0	10.498	/	Pass
		2650	50	0	10.115	/	Pass
15	QPSK	2562.5	75	0	16.400	/	Pass
		2605	75	0	16.032	/	Pass
		2647.5	75	0	17.706	/	Pass

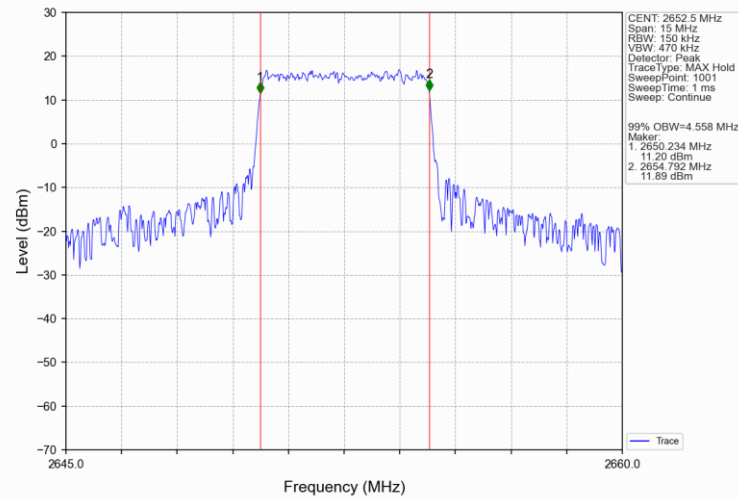
20	16QAM	2562.5	75	0	15.126	/	Pass
		2605	75	0	15.219	/	Pass
		2647.5	75	0	17.294	/	Pass
	QPSK	2565	100	0	19.941	/	Pass
		2605	100	0	21.276	/	Pass
		2645	100	0	21.302	/	Pass
	16QAM	2565	100	0	19.867	/	Pass
		2605	100	0	21.999	/	Pass
		2645	100	0	19.718	/	Pass

4.2 Test Graph

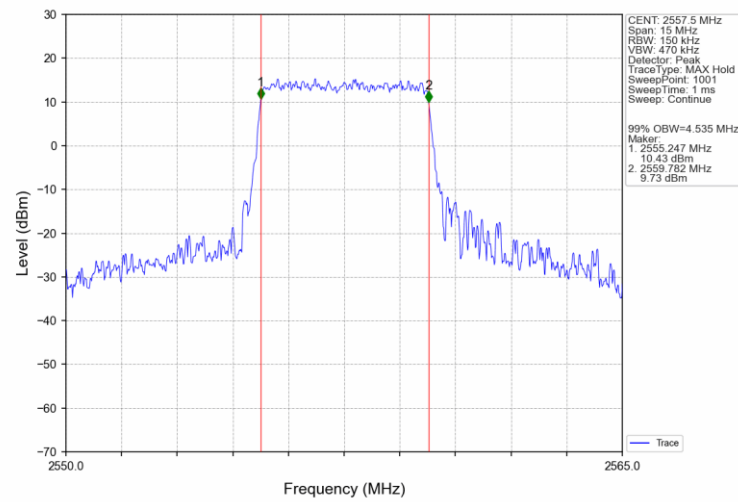
4.2.1 Band41_OBW



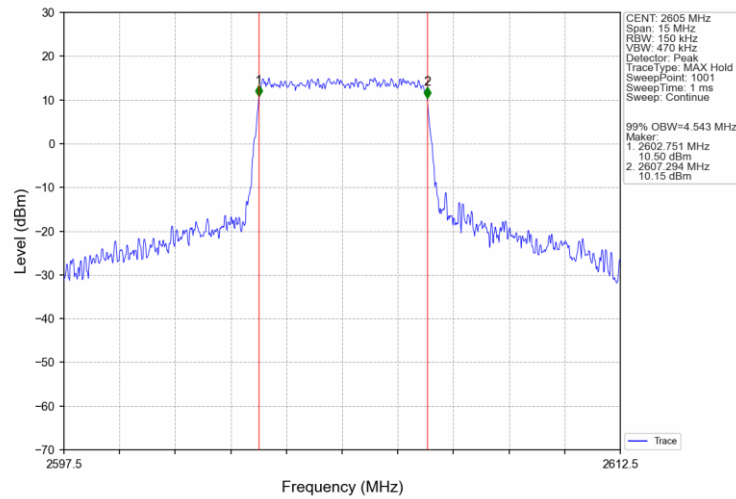
Band41_5MHz_QPSK_HCH_2652.5MHz_RB_25_0_NTNV



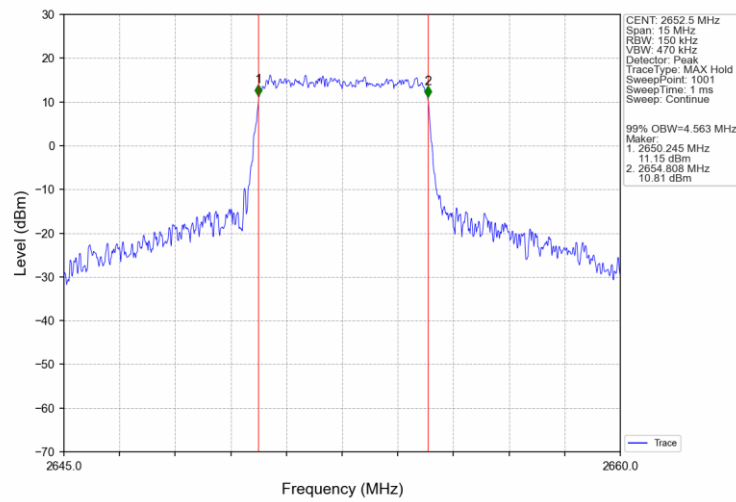
Band41_5MHz_16QAM_LCH_2557.5MHz_RB_25_0_NTNV



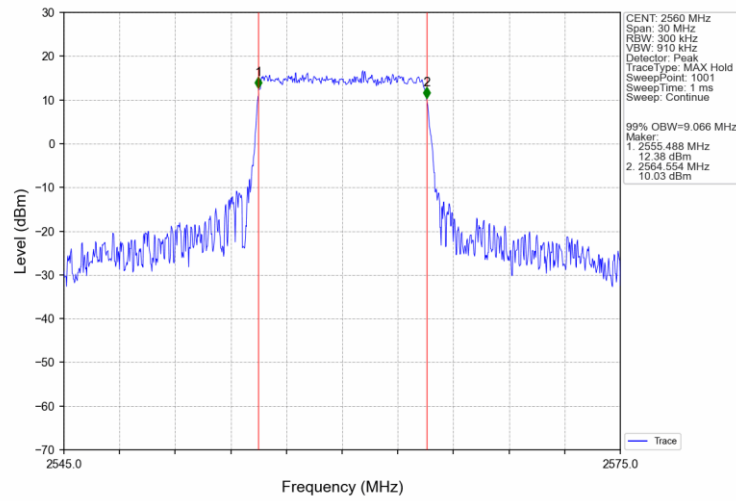
Band41_5MHz_16QAM_MCH_2605MHz_RB_25_0_NTNV



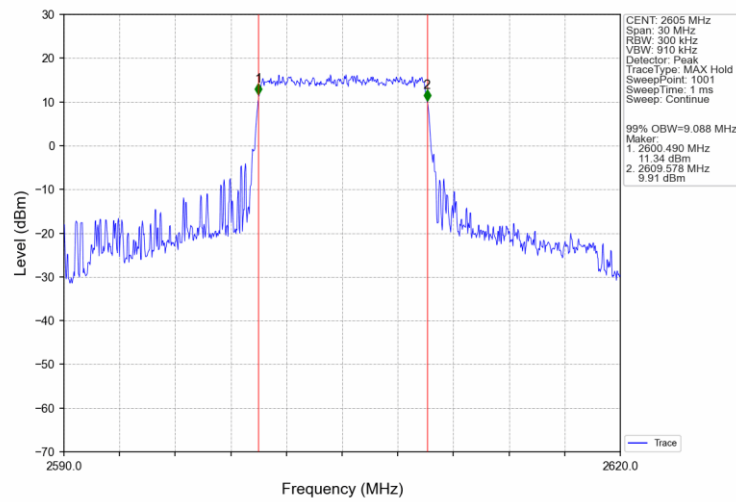
Band41_5MHz_16QAM_HCH_2652.5MHz_RB_25_0_NTNV



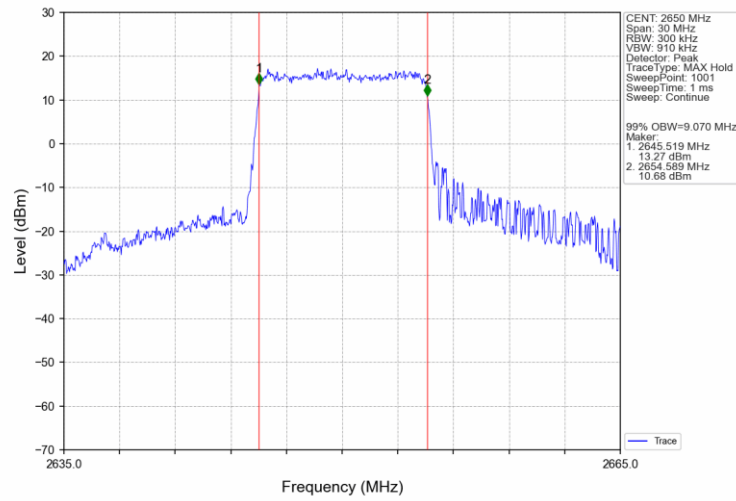
Band41_10MHz_QPSK_LCH_2560MHz_RB_50_0_NTNV



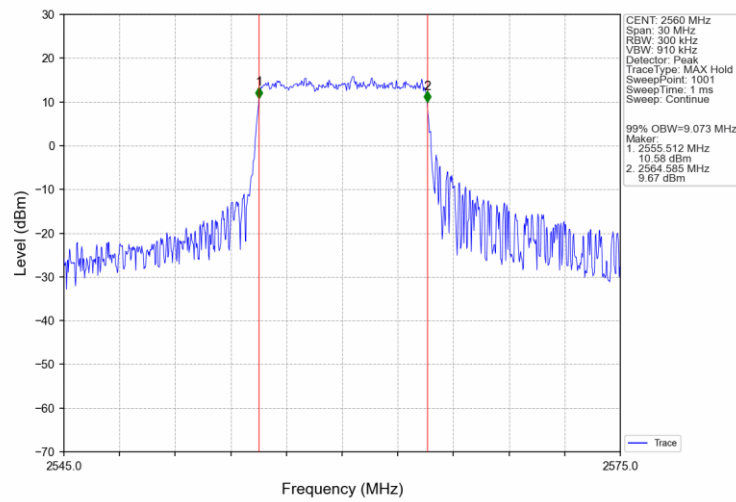
Band41_10MHz_QPSK_MCH_2605MHz_RB_50_0_NTNV



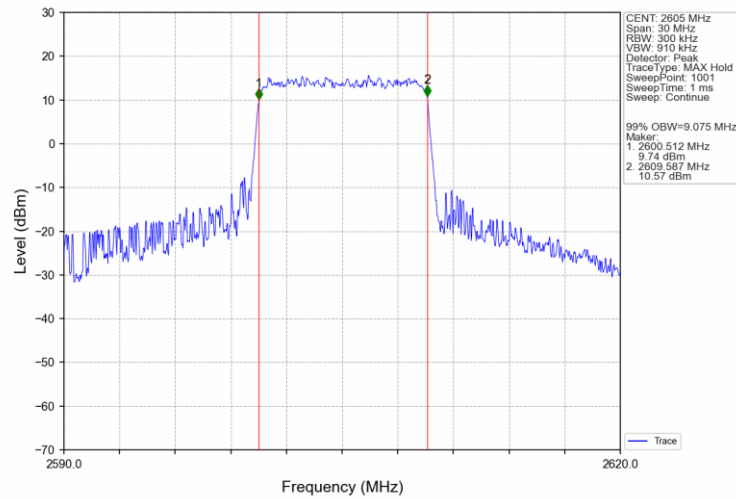
Band41_10MHz_QPSK_HCH_2650MHz_RB_50_0_NTNV



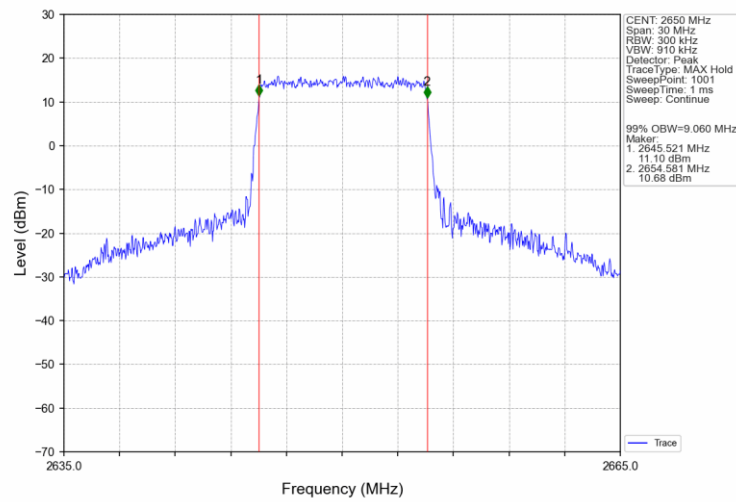
Band41_10MHz_16QAM_LCH_2560MHz_RB_50_0_NTNV



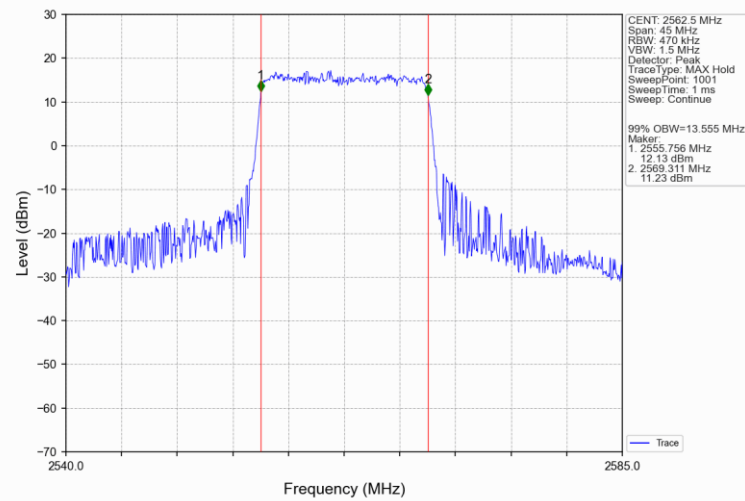
Band41_10MHz_16QAM_MCH_2605MHz_RB_50_0_NTNV



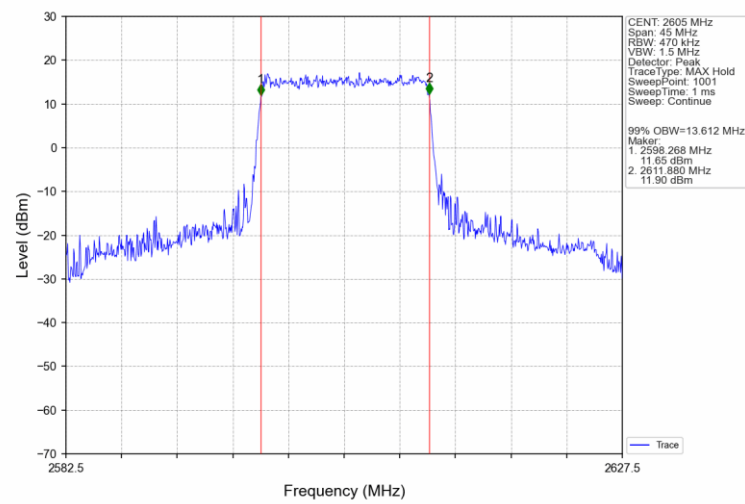
Band41_10MHz_16QAM_HCH_2650MHz_RB_50_0_NTNV



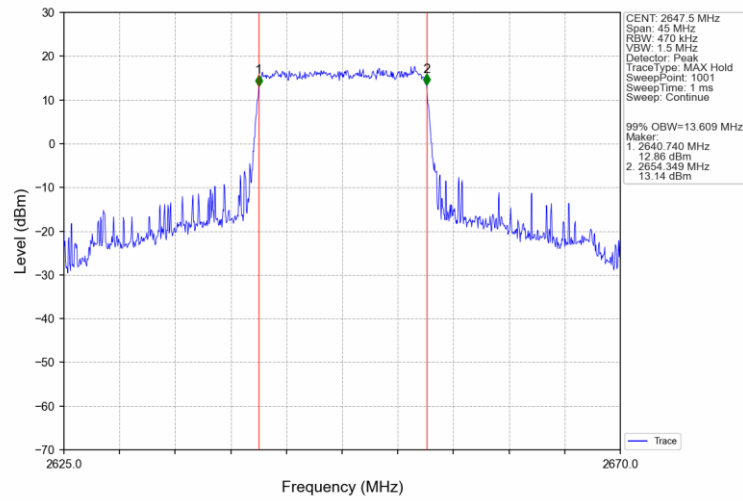
Band41_15MHz_QPSK_LCH_2562.5MHz_RB_75_0_NTNV



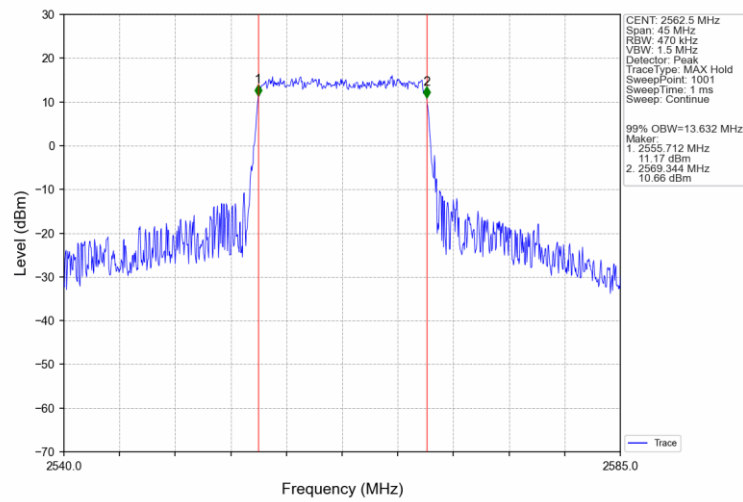
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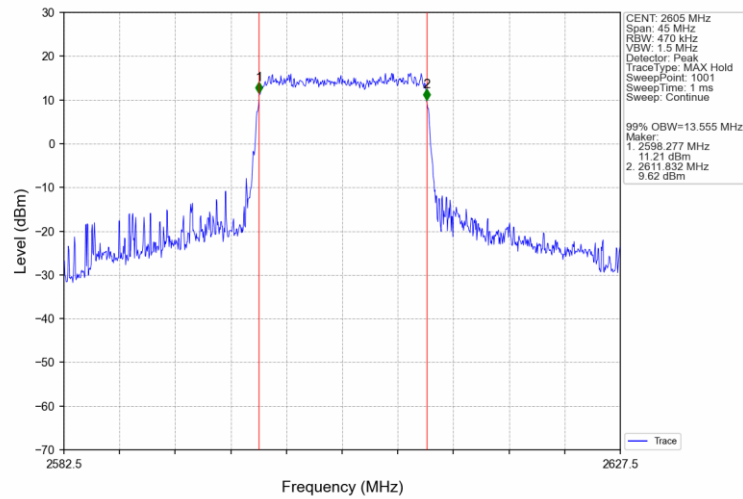
Band41_15MHz_QPSK_HCH_2647.5MHz_RB_75_0_NTNV



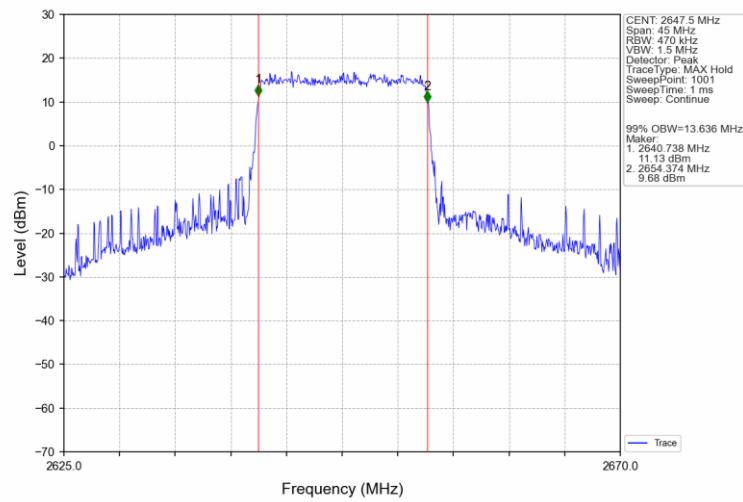
Band41_15MHz_16QAM_LCH_2562.5MHz_RB_75_0_NTNV



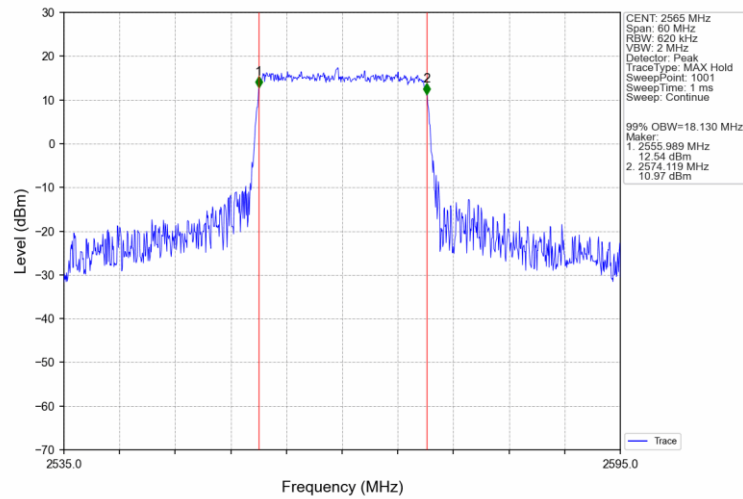
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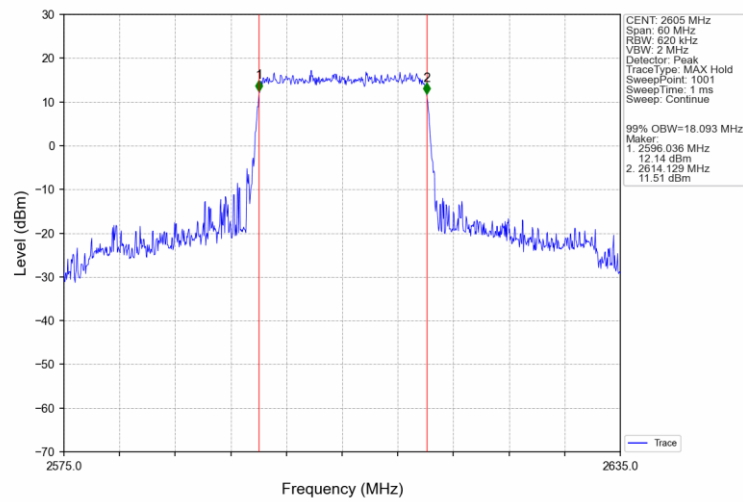
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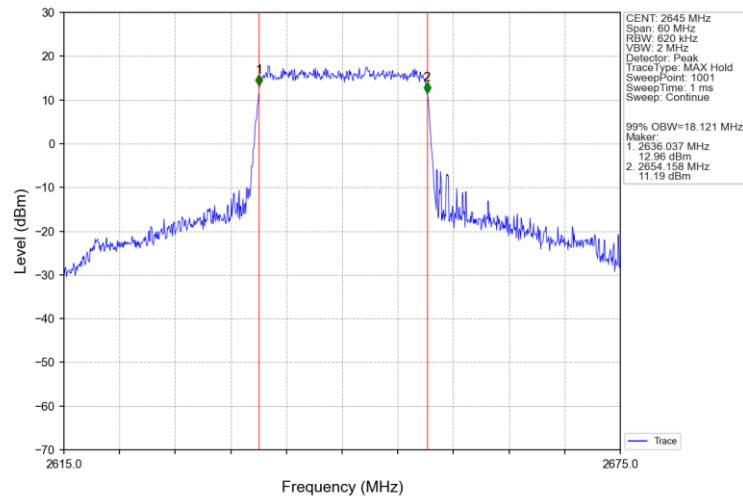
Band41_20MHz_QPSK_LCH_2565MHz_RB_100_0_NTNV



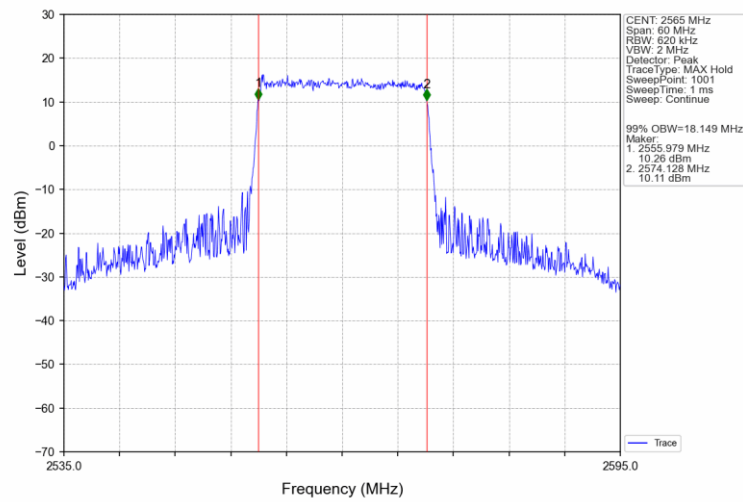
Band41_20MHz_QPSK_MCH_2605MHz_RB_100_0_NTNV



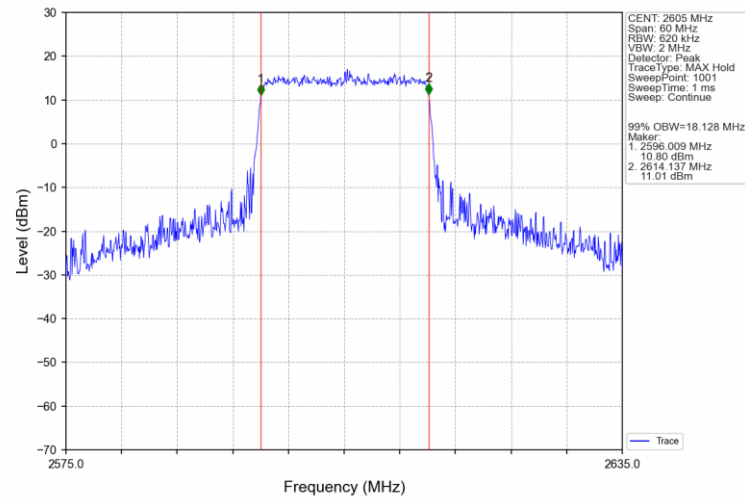
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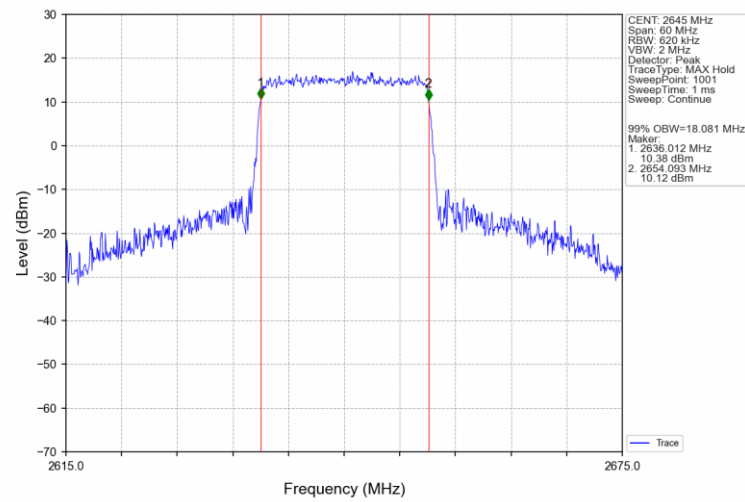
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Band41_20MHz_16QAM_MCH_2605MHz_RB_100_0_NTNV

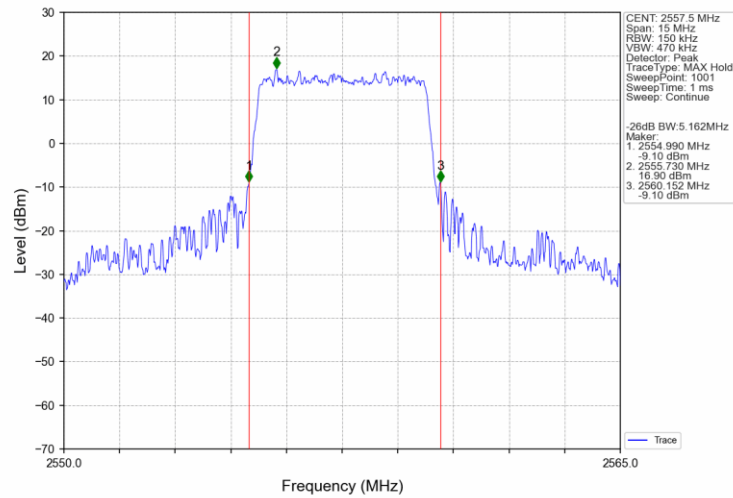


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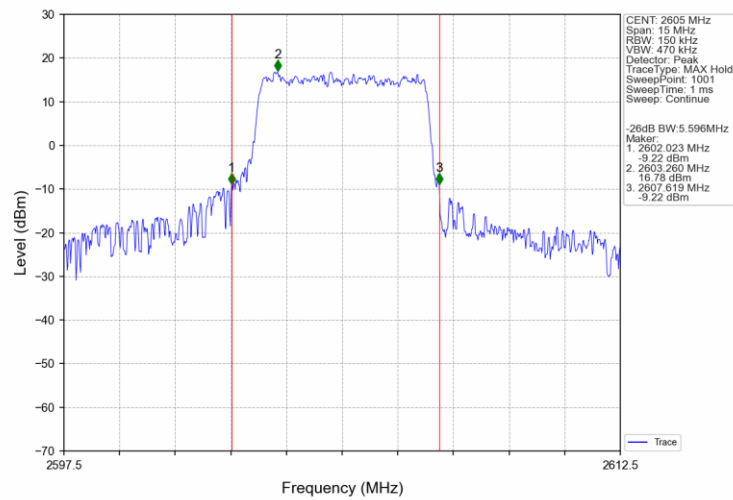


4.2.2 Band41_XDB

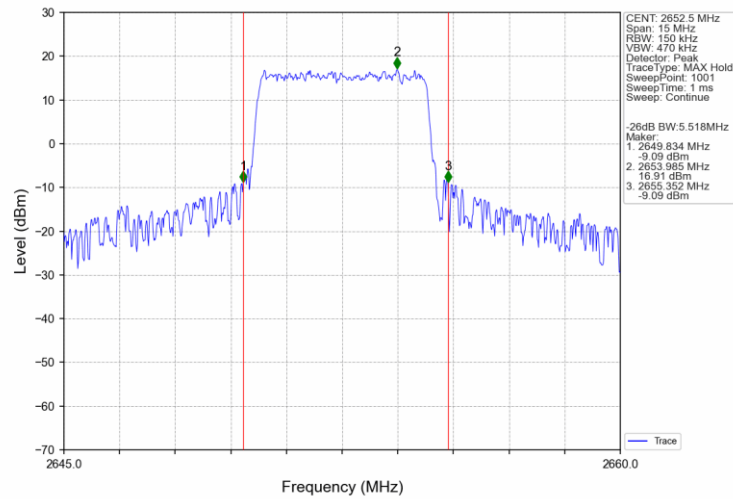
Band41_5MHz_QPSK_LCH_2557.5MHz_RB_25_0_NTNV



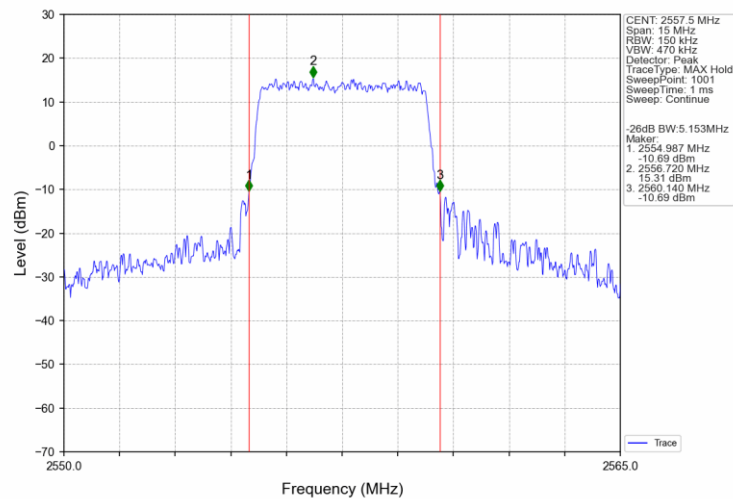
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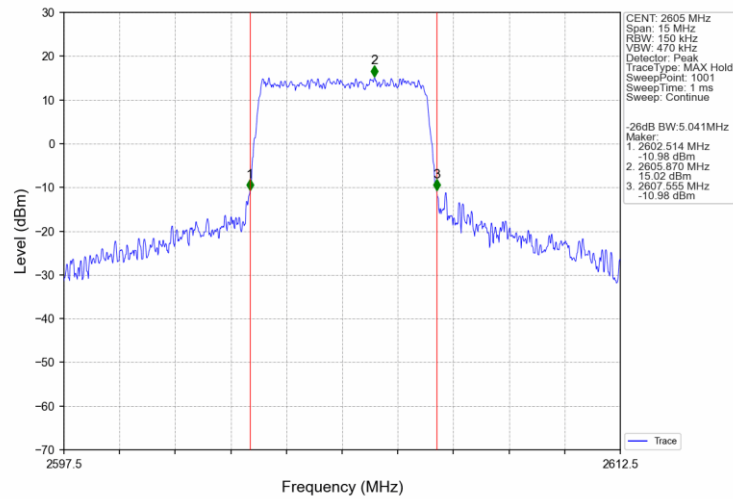
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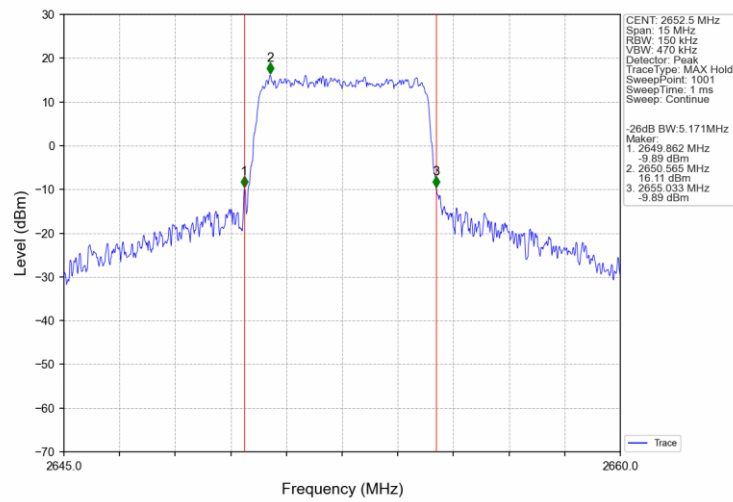
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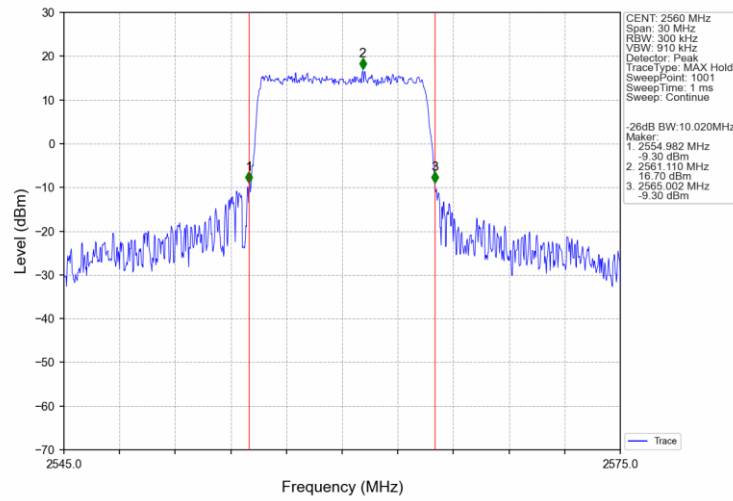
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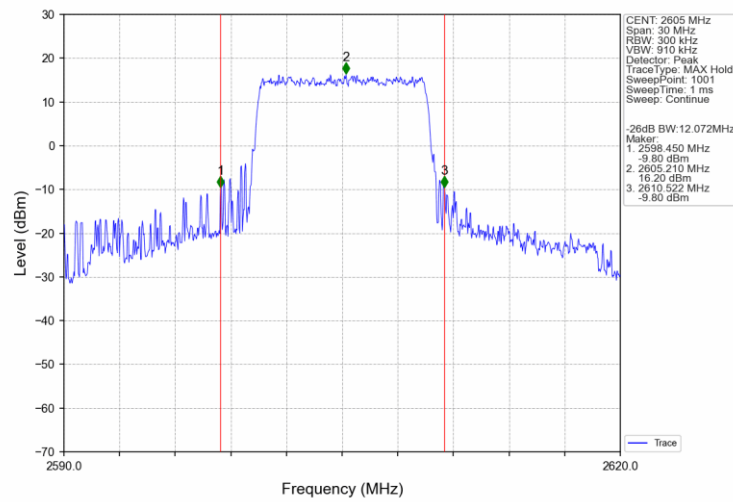
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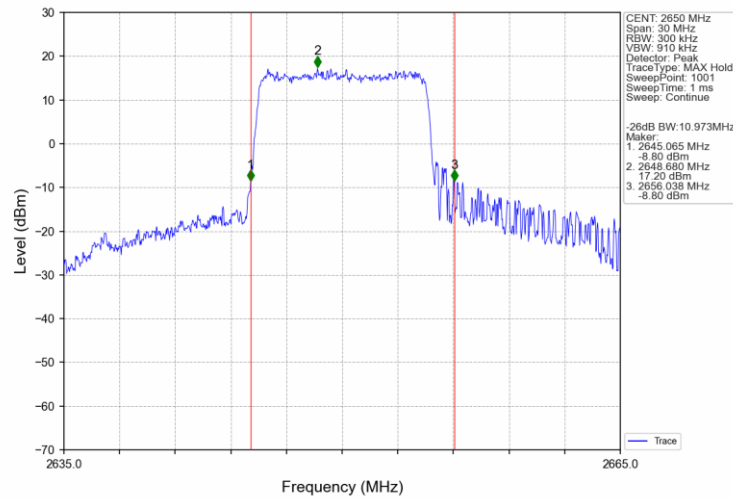
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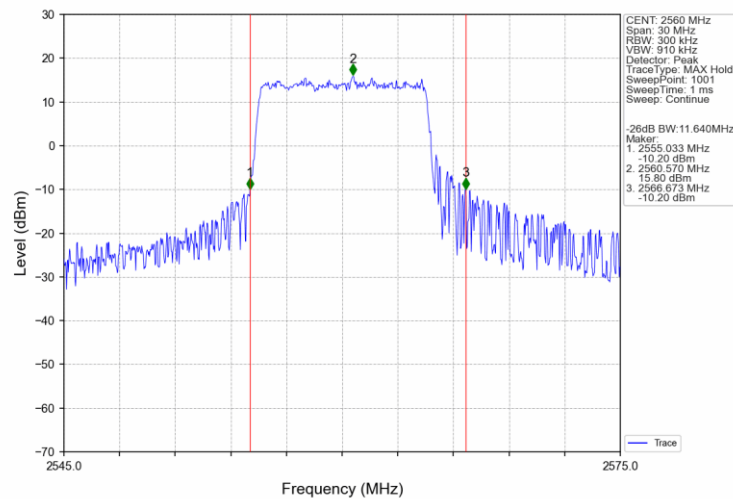
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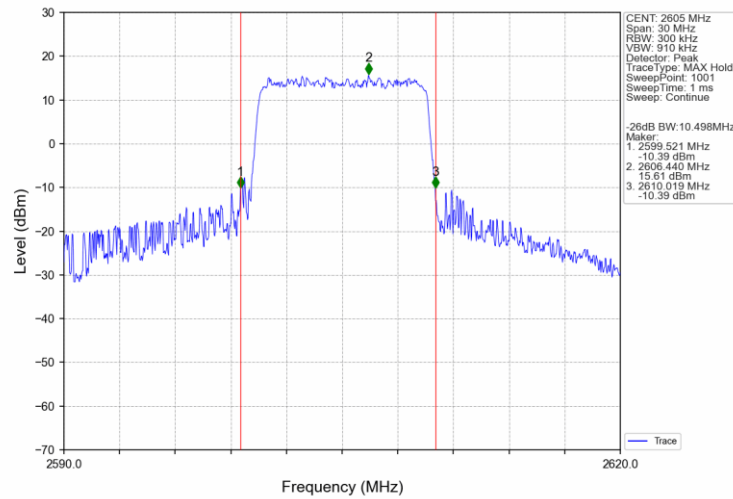
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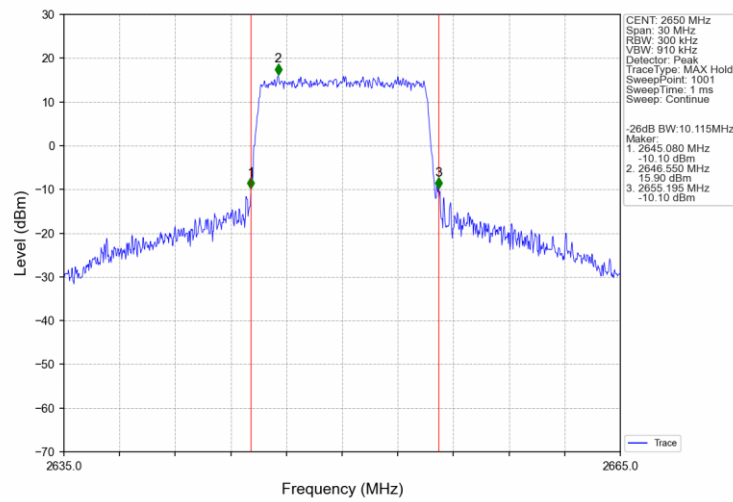
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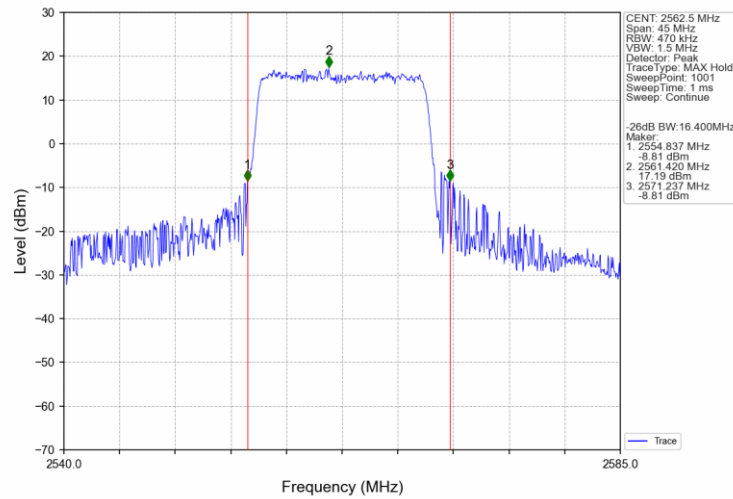
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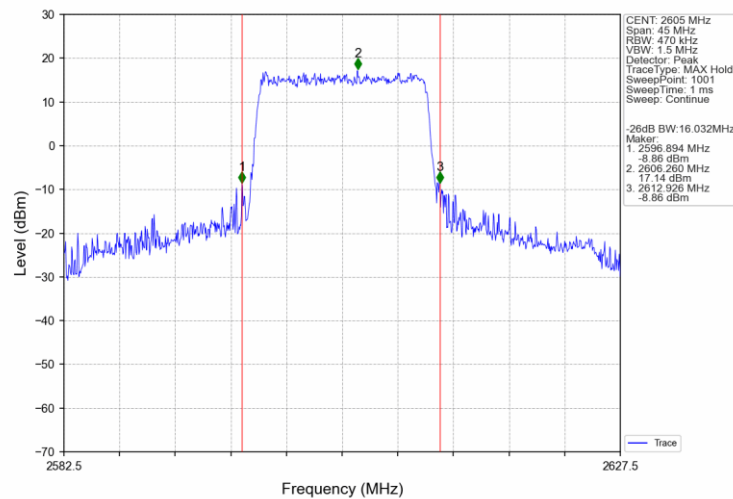
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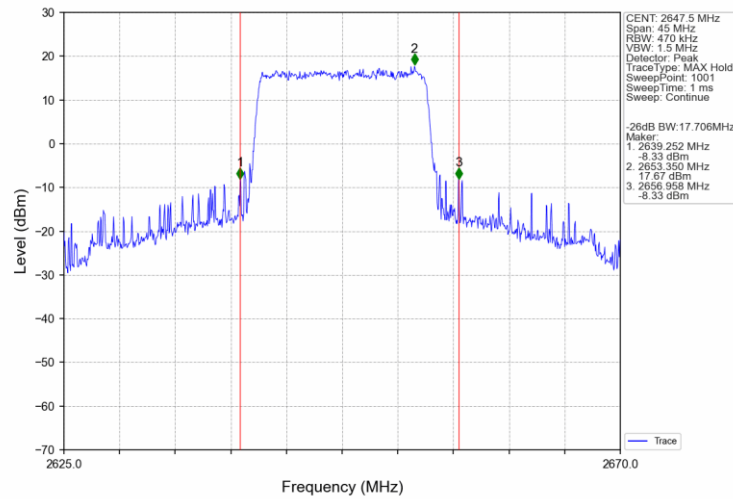
Band41_15MHz_QPSK_LCH_2562.5MHz_RB_75_0_NTNV



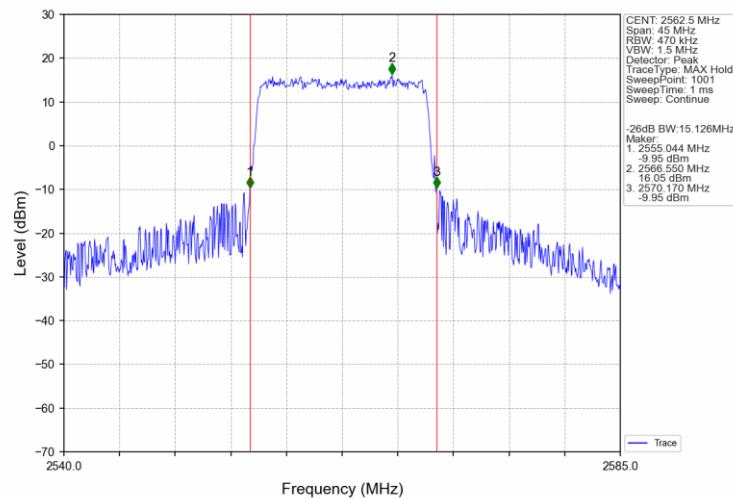
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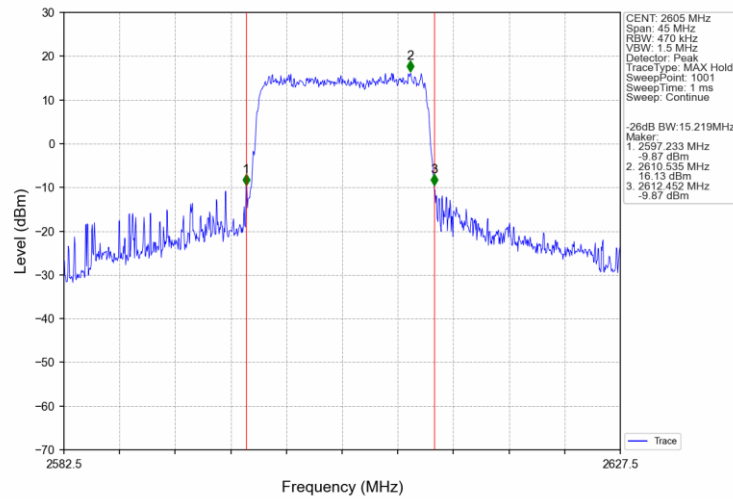
Band41_15MHz_QPSK_HCH_2647.5MHz_RB_75_0_NTNV



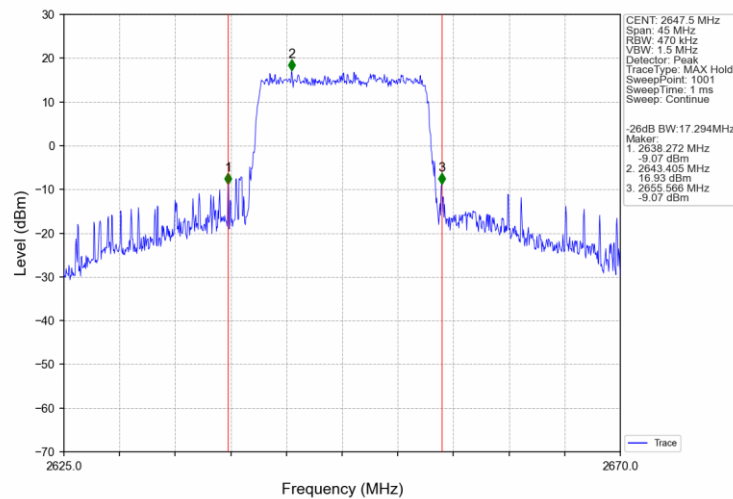
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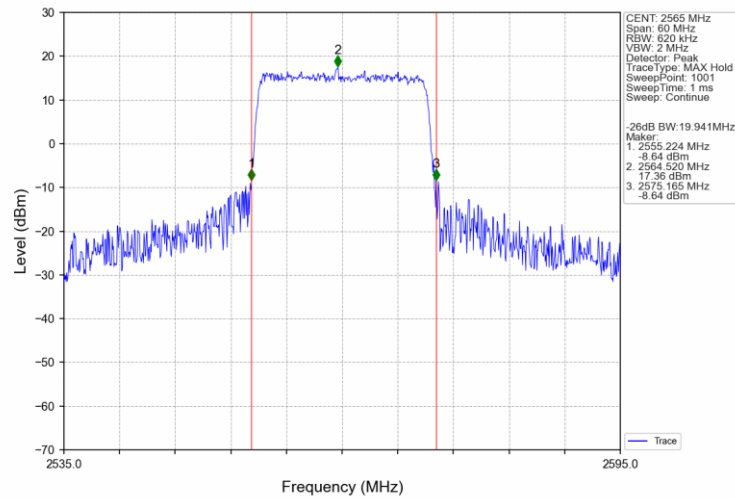
Band41_15MHz_16QAM_MCH_2605MHz_RB_75_0_NTNV



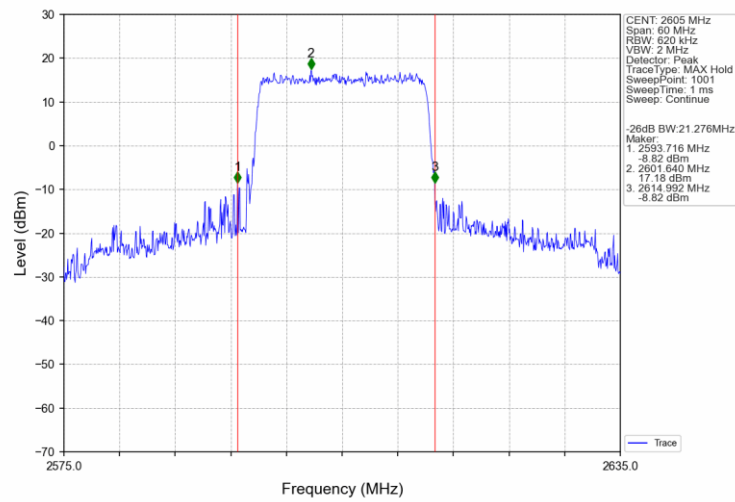
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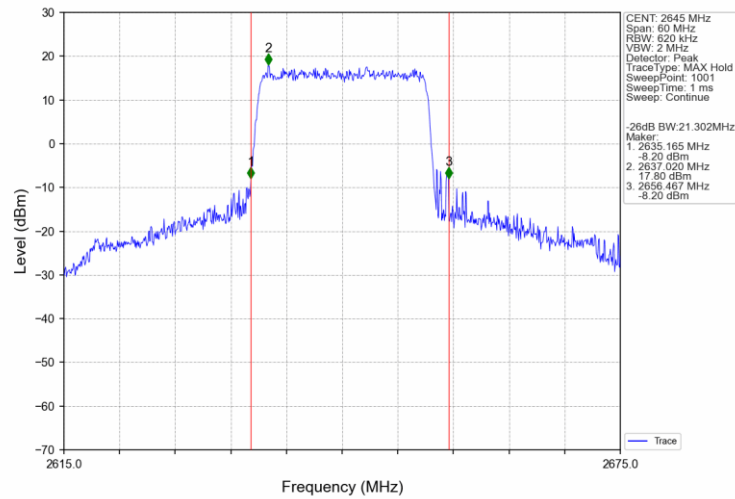
Band41_20MHz_QPSK_LCH_2565MHz_RB_100_0_NTNV



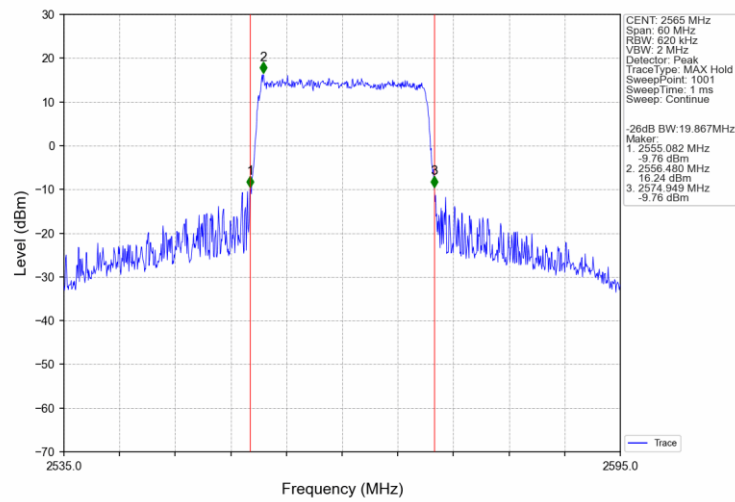
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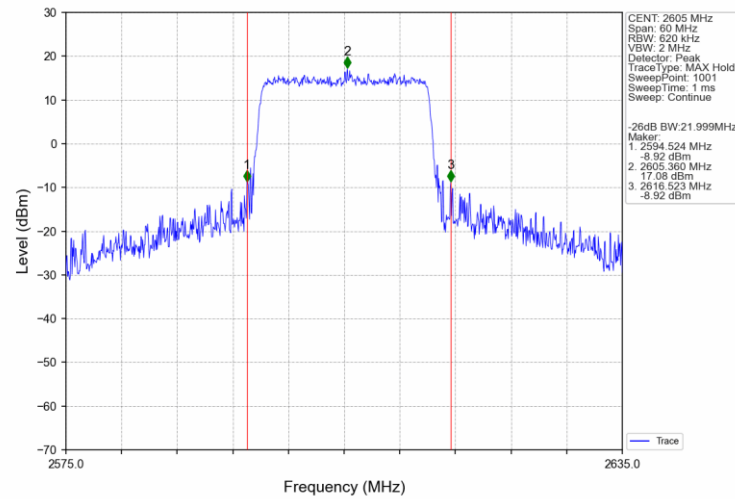
Band41_20MHz_QPSK_HCH_2645MHz_RB_100_0_NTNV



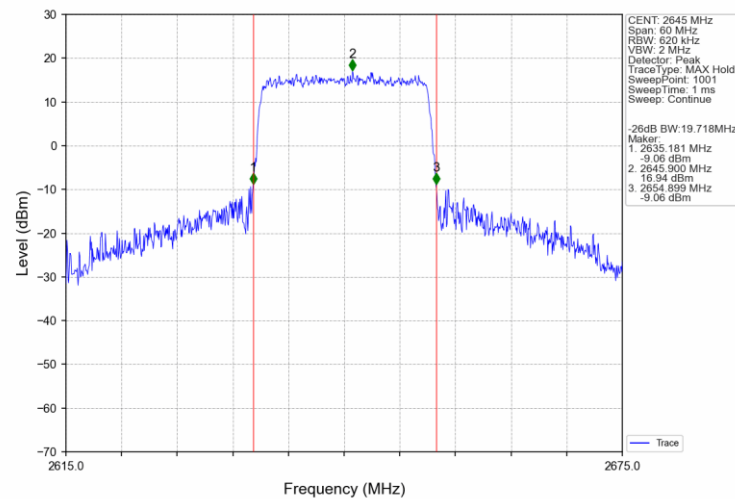
Band41_20MHz_16QAM_LCH_2565MHz_RB_100_0_NTNV



Band41_20MHz_16QAM_MCH_2605MHz_RB_100_0_NTNV



Band41_20MHz_16QAM_HCH_2645MHz_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	2557.5	25	0	7.67	<=13	Pass
	2605	25	0	7.21	<=13	Pass
	2652.5	25	0	7.21	<=13	Pass
16QAM	2557.5	25	0	8.38	<=13	Pass
	2605	25	0	7.95	<=13	Pass
	2652.5	25	0	7.64	<=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	2560	50	0	7.70	<=13	Pass
	2605	50	0	7.01	<=13	Pass
	2650	50	0	7.04	<=13	Pass
16QAM	2560	50	0	8.51	<=13	Pass
	2605	50	0	7.95	<=13	Pass
	2650	50	0	7.90	<=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	2562.5	75	0	7.37	<=13	Pass
	2605	75	0	7.44	<=13	Pass
	2647.5	75	0	6.96	<=13	Pass
16QAM	2562.5	75	0	8.06	<=13	Pass
	2605	75	0	8.17	<=13	Pass
	2647.5	75	0	7.96	<=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	2565	100	0	7.69	<=13	Pass
	2605	100	0	7.79	<=13	Pass
	2645	100	0	7.61	<=13	Pass
16QAM	2565	100	0	8.52	<=13	Pass
	2605	100	0	8.51	<=13	Pass
	2645	100	0	8.84	<=13	Pass

