

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	22.96	2.82	25.78	<=33.01	Pass
			13	22.87	2.82	25.69	<=33.01	Pass
			24	22.85	2.82	25.67	<=33.01	Pass
		12	0	21.78	2.82	24.60	<=33.01	Pass
			6	21.81	2.82	24.63	<=33.01	Pass
			13	21.79	2.82	24.61	<=33.01	Pass
		25	0	21.84	2.82	24.66	<=33.01	Pass
	2605	1	0	23.01	2.82	25.83	<=33.01	Pass
			13	23.06	2.82	25.88	<=33.01	Pass
			24	23.07	2.82	25.89	<=33.01	Pass
		12	0	21.97	2.82	24.79	<=33.01	Pass
			6	21.96	2.82	24.78	<=33.01	Pass
			13	22.00	2.82	24.82	<=33.01	Pass
		25	0	21.97	2.82	24.79	<=33.01	Pass
	2652.5	1	0	23.75	2.82	26.57	<=33.01	Pass
			13	23.92	2.82	26.74	<=33.01	Pass
			24	23.83	2.82	26.65	<=33.01	Pass
		12	0	22.76	2.82	25.58	<=33.01	Pass
			6	22.73	2.82	25.55	<=33.01	Pass
			13	22.72	2.82	25.54	<=33.01	Pass
		25	0	22.81	2.82	25.63	<=33.01	Pass
16QAM	2557.5	1	0	21.83	2.82	24.65	<=33.01	Pass
			13	21.86	2.82	24.68	<=33.01	Pass
			24	21.91	2.82	24.73	<=33.01	Pass
		12	0	20.85	2.82	23.67	<=33.01	Pass
			6	20.69	2.82	23.51	<=33.01	Pass
			13	20.74	2.82	23.56	<=33.01	Pass
		25	0	20.87	2.82	23.69	<=33.01	Pass
	2605	1	0	22.20	2.82	25.02	<=33.01	Pass
			13	21.97	2.82	24.79	<=33.01	Pass
			24	21.99	2.82	24.81	<=33.01	Pass
		12	0	20.96	2.82	23.78	<=33.01	Pass
			6	20.96	2.82	23.78	<=33.01	Pass
			13	20.86	2.82	23.68	<=33.01	Pass
		25	0	21.03	2.82	23.85	<=33.01	Pass
	2652.5	1	0	22.70	2.82	25.52	<=33.01	Pass
			13	22.71	2.82	25.53	<=33.01	Pass
			24	22.81	2.82	25.63	<=33.01	Pass
		12	0	21.77	2.82	24.59	<=33.01	Pass
			6	21.75	2.82	24.57	<=33.01	Pass
			13	21.78	2.82	24.60	<=33.01	Pass
		25	0	21.74	2.82	24.56	<=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	22.79	2.82	25.61	<=33.01	Pass
			25	22.91	2.82	25.73	<=33.01	Pass
			49	22.89	2.82	25.71	<=33.01	Pass
		25	0	21.80	2.82	24.62	<=33.01	Pass
			13	21.84	2.82	24.66	<=33.01	Pass
			25	21.81	2.82	24.63	<=33.01	Pass
		50	0	21.86	2.82	24.68	<=33.01	Pass
			0	22.89	2.82	25.71	<=33.01	Pass
			25	22.98	2.82	25.80	<=33.01	Pass
	2605	1	49	23.07	2.82	25.89	<=33.01	Pass
			0	21.98	2.82	24.80	<=33.01	Pass
			13	21.98	2.82	24.80	<=33.01	Pass
		25	25	22.02	2.82	24.84	<=33.01	Pass
			0	21.98	2.82	24.80	<=33.01	Pass
			0	23.71	2.82	26.53	<=33.01	Pass
		25	25	23.77	2.82	26.59	<=33.01	Pass
			49	23.88	2.82	26.70	<=33.01	Pass
			0	22.68	2.82	25.50	<=33.01	Pass
			13	22.75	2.82	25.57	<=33.01	Pass
			25	22.77	2.82	25.59	<=33.01	Pass
			0	22.75	2.82	25.57	<=33.01	Pass
16QAM	2560	1	0	21.70	2.82	24.52	<=33.01	Pass
			25	21.77	2.82	24.59	<=33.01	Pass
			49	21.77	2.82	24.59	<=33.01	Pass
		12	0	21.85	2.82	24.67	<=33.01	Pass
			19	21.87	2.82	24.69	<=33.01	Pass
			38	21.85	2.82	24.67	<=33.01	Pass
		27	0	20.75	2.82	23.57	<=33.01	Pass
			0	21.79	2.82	24.61	<=33.01	Pass
			25	21.86	2.82	24.68	<=33.01	Pass
	2605	1	49	21.76	2.82	24.58	<=33.01	Pass
			0	21.90	2.82	24.72	<=33.01	Pass
			19	21.93	2.82	24.75	<=33.01	Pass
		12	38	21.99	2.82	24.81	<=33.01	Pass
			0	20.94	2.82	23.76	<=33.01	Pass
			0	22.46	2.82	25.28	<=33.01	Pass
		27	25	22.77	2.82	25.59	<=33.01	Pass
			49	22.82	2.82	25.64	<=33.01	Pass
			0	22.63	2.82	25.45	<=33.01	Pass
			19	22.69	2.82	25.51	<=33.01	Pass
			38	22.72	2.82	25.54	<=33.01	Pass
			23	21.70	2.82	24.52	<=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	2562.5	1	0	22.62	2.82	25.44	<=33.01	Pass
			38	22.92	2.82	25.74	<=33.01	Pass
			74	22.79	2.82	25.61	<=33.01	Pass
		36	0	21.74	2.82	24.56	<=33.01	Pass
			18	21.83	2.82	24.65	<=33.01	Pass
			39	21.84	2.82	24.66	<=33.01	Pass
		75	0	21.83	2.82	24.65	<=33.01	Pass
			0	22.77	2.82	25.59	<=33.01	Pass
			38	23.04	2.82	25.86	<=33.01	Pass
	2605	1	74	22.89	2.82	25.71	<=33.01	Pass
			0	21.93	2.82	24.75	<=33.01	Pass
			18	21.96	2.82	24.78	<=33.01	Pass
		36	39	21.98	2.82	24.80	<=33.01	Pass
			0	21.97	2.82	24.79	<=33.01	Pass
			0	23.58	2.82	26.40	<=33.01	Pass
		75	38	23.80	2.82	26.62	<=33.01	Pass
			74	23.76	2.82	26.58	<=33.01	Pass
			0	22.60	2.82	25.42	<=33.01	Pass
	2647.5	36	18	22.64	2.82	25.46	<=33.01	Pass
			39	22.67	2.82	25.49	<=33.01	Pass
			0	22.68	2.82	25.50	<=33.01	Pass
16QAM	2562.5	1	0	22.06	2.82	24.88	<=33.01	Pass
			38	21.74	2.82	24.56	<=33.01	Pass
			74	21.65	2.82	24.47	<=33.01	Pass
		12	0	21.78	2.82	24.60	<=33.01	Pass
			31	21.81	2.82	24.63	<=33.01	Pass
			63	21.90	2.82	24.72	<=33.01	Pass
		27	0	20.77	2.82	23.59	<=33.01	Pass
			0	21.72	2.82	24.54	<=33.01	Pass
			38	21.87	2.82	24.69	<=33.01	Pass
	2605	1	74	21.76	2.82	24.58	<=33.01	Pass
			0	21.87	2.82	24.69	<=33.01	Pass
			31	21.95	2.82	24.77	<=33.01	Pass
		12	63	21.98	2.82	24.80	<=33.01	Pass
			0	20.84	2.82	23.66	<=33.01	Pass
			0	22.67	2.82	25.49	<=33.01	Pass
		27	38	22.74	2.82	25.56	<=33.01	Pass
			74	22.57	2.82	25.39	<=33.01	Pass
			0	22.51	2.82	25.33	<=33.01	Pass
	2647.5	12	31	22.61	2.82	25.43	<=33.01	Pass
			63	22.75	2.82	25.57	<=33.01	Pass
			48	21.65	2.82	24.47	<=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	22.65	2.82	25.47	<=33.01	Pass
			50	22.82	2.82	25.64	<=33.01	Pass
			99	22.89	2.82	25.71	<=33.01	Pass
		50	0	21.87	2.82	24.69	<=33.01	Pass
			25	21.82	2.82	24.64	<=33.01	Pass
			50	21.91	2.82	24.73	<=33.01	Pass
		100	0	21.85	2.82	24.67	<=33.01	Pass
			0	22.72	2.82	25.54	<=33.01	Pass
			99	22.92	2.82	25.74	<=33.01	Pass
	2605	1	0	21.94	2.82	24.76	<=33.01	Pass
			25	22.02	2.82	24.84	<=33.01	Pass
			50	22.06	2.82	24.88	<=33.01	Pass
		50	0	21.97	2.82	24.79	<=33.01	Pass
			0	23.46	2.82	26.28	<=33.01	Pass
			50	23.64	2.82	26.46	<=33.01	Pass
		100	99	23.68	2.82	26.50	<=33.01	Pass
			0	22.56	2.82	25.38	<=33.01	Pass
			25	22.70	2.82	25.52	<=33.01	Pass
16QAM	2565	1	50	22.73	2.82	25.55	<=33.01	Pass
			0	22.67	2.82	25.49	<=33.01	Pass
			99	21.84	2.82	24.66	<=33.01	Pass
		12	50	21.98	2.82	24.80	<=33.01	Pass
			99	22.04	2.82	24.86	<=33.01	Pass
		27	0	21.57	2.82	24.39	<=33.01	Pass
			44	21.87	2.82	24.69	<=33.01	Pass
			88	21.74	2.82	24.56	<=33.01	Pass
	2605	1	0	20.75	2.82	23.57	<=33.01	Pass
			50	21.54	2.82	24.36	<=33.01	Pass
			99	21.70	2.82	24.52	<=33.01	Pass
		12	0	21.72	2.82	24.54	<=33.01	Pass
			44	21.79	2.82	24.61	<=33.01	Pass
			88	21.98	2.82	24.80	<=33.01	Pass
		27	0	22.02	2.82	24.84	<=33.01	Pass
			44	20.78	2.82	23.60	<=33.01	Pass
			88	20.78	2.82	23.60	<=33.01	Pass
	2645	1	0	22.37	2.82	25.19	<=33.01	Pass
			50	22.60	2.82	25.42	<=33.01	Pass
			99	22.65	2.82	25.47	<=33.01	Pass
		12	0	22.40	2.82	25.22	<=33.01	Pass
			44	22.59	2.82	25.41	<=33.01	Pass
			88	22.69	2.82	25.51	<=33.01	Pass
		27	73	21.56	2.82	24.38	<=33.01	Pass
			0	21.84	2.82	24.66	<=33.01	Pass
			50	21.98	2.82	24.80	<=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 (VAC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2557.5	25	0	20	102	-1.545	-0.0006	-2.5 to 2.5	Pass
					120	1.903	0.0007	-2.5 to 2.5	Pass
					138	3.333	0.0013	-2.5 to 2.5	Pass
				-30	120	-1.116	-0.0004	-2.5 to 2.5	Pass
				-20	120	0.715	0.0003	-2.5 to 2.5	Pass
				-10	120	-1.659	-0.0006	-2.5 to 2.5	Pass
				0	120	4.807	0.0019	-2.5 to 2.5	Pass
				10	120	4.535	0.0018	-2.5 to 2.5	Pass
				30	120	-0.429	-0.0002	-2.5 to 2.5	Pass
				40	120	1.059	0.0004	-2.5 to 2.5	Pass
				50	120	-1.173	-0.0005	-2.5 to 2.5	Pass
	2605	25	0	20	102	2.375	0.0009	-2.5 to 2.5	Pass
					120	1.016	0.0004	-2.5 to 2.5	Pass
					138	-4.463	-0.0017	-2.5 to 2.5	Pass
				-30	120	-2.518	-0.0010	-2.5 to 2.5	Pass
				-20	120	-4.234	-0.0016	-2.5 to 2.5	Pass
				-10	120	-3.920	-0.0015	-2.5 to 2.5	Pass
				0	120	2.389	0.0009	-2.5 to 2.5	Pass
				10	120	9.756	0.0037	-2.5 to 2.5	Pass
				30	120	-3.161	-0.0012	-2.5 to 2.5	Pass
				40	120	7.439	0.0029	-2.5 to 2.5	Pass
				50	120	5.693	0.0022	-2.5 to 2.5	Pass
	2652.5	25	0	20	102	-4.864	-0.0018	-2.5 to 2.5	Pass
					120	-2.618	-0.0010	-2.5 to 2.5	Pass
					138	3.934	0.0015	-2.5 to 2.5	Pass
				-30	120	-1.674	-0.0006	-2.5 to 2.5	Pass
				-20	120	4.721	0.0018	-2.5 to 2.5	Pass
				-10	120	-4.764	-0.0018	-2.5 to 2.5	Pass
				0	120	5.364	0.0020	-2.5 to 2.5	Pass
				10	120	-5.522	-0.0021	-2.5 to 2.5	Pass
				30	120	1.488	0.0006	-2.5 to 2.5	Pass
				40	120	-3.190	-0.0012	-2.5 to 2.5	Pass
16QAM	2557.5	25	0	20	102	3.333	0.0013	-2.5 to 2.5	Pass
					120	3.920	0.0015	-2.5 to 2.5	Pass
					138	4.735	0.0019	-2.5 to 2.5	Pass
				-30	120	8.454	0.0033	-2.5 to 2.5	Pass
				-20	120	5.264	0.0021	-2.5 to 2.5	Pass
				-10	120	-10.715	-0.0042	-2.5 to 2.5	Pass
				0	120	1.044	0.0004	-2.5 to 2.5	Pass
				10	120	-6.766	-0.0026	-2.5 to 2.5	Pass
				30	120	-2.375	-0.0009	-2.5 to 2.5	Pass
				40	120	-6.351	-0.0025	-2.5 to 2.5	Pass
				50	120	2.432	0.0010	-2.5 to 2.5	Pass
	2605	25	0	20	102	7.825	0.0030	-2.5 to 2.5	Pass
					120	2.360	0.0009	-2.5 to 2.5	Pass
					138	-7.439	-0.0029	-2.5 to 2.5	Pass
				-30	120	5.522	0.0021	-2.5 to 2.5	Pass
				-20	120	4.191	0.0016	-2.5 to 2.5	Pass
				-10	120	-6.337	-0.0024	-2.5 to 2.5	Pass

				0	120	-4.849	-0.0019	-2.5 to 2.5	Pass
				10	120	0.243	0.0001	-2.5 to 2.5	Pass
				30	120	4.892	0.0019	-2.5 to 2.5	Pass
				40	120	4.649	0.0018	-2.5 to 2.5	Pass
				50	120	0.744	0.0003	-2.5 to 2.5	Pass
	2652.5	25	0	20	102	1.502	0.0006	-2.5 to 2.5	Pass
					120	-8.111	-0.0031	-2.5 to 2.5	Pass
					138	-6.838	-0.0026	-2.5 to 2.5	Pass
				-30	120	-6.280	-0.0024	-2.5 to 2.5	Pass
				-20	120	-1.130	-0.0004	-2.5 to 2.5	Pass
				-10	120	-3.791	-0.0014	-2.5 to 2.5	Pass
				0	120	9.313	0.0035	-2.5 to 2.5	Pass
				10	120	-1.431	-0.0005	-2.5 to 2.5	Pass
				30	120	5.350	0.0020	-2.5 to 2.5	Pass
				40	120	3.791	0.0014	-2.5 to 2.5	Pass
				50	120	13.990	0.0053	-2.5 to 2.5	Pass

2.1.2 B41_10MHz

Band: 41 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VAC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2560	50	0	20	102	0.129	0.0001	-2.5 to 2.5	Pass
					120	-4.334	-0.0017	-2.5 to 2.5	Pass
					138	-3.390	-0.0013	-2.5 to 2.5	Pass
				-30	120	2.933	0.0011	-2.5 to 2.5	Pass
				-20	120	-4.048	-0.0016	-2.5 to 2.5	Pass
				-10	120	2.146	0.0008	-2.5 to 2.5	Pass
				0	120	0.114	0.0000	-2.5 to 2.5	Pass
				10	120	0.401	0.0002	-2.5 to 2.5	Pass
				30	120	-3.819	-0.0015	-2.5 to 2.5	Pass
				40	120	-1.287	-0.0005	-2.5 to 2.5	Pass
				50	120	1.388	0.0005	-2.5 to 2.5	Pass
	2605	50	0	20	102	-5.493	-0.0021	-2.5 to 2.5	Pass
					120	1.473	0.0006	-2.5 to 2.5	Pass
					138	-0.615	-0.0002	-2.5 to 2.5	Pass
				-30	120	4.435	0.0017	-2.5 to 2.5	Pass
				-20	120	1.416	0.0005	-2.5 to 2.5	Pass
				-10	120	3.877	0.0015	-2.5 to 2.5	Pass
				0	120	-2.646	-0.0010	-2.5 to 2.5	Pass
				10	120	2.332	0.0009	-2.5 to 2.5	Pass
				30	120	3.676	0.0014	-2.5 to 2.5	Pass
				40	120	6.566	0.0025	-2.5 to 2.5	Pass
				50	120	3.448	0.0013	-2.5 to 2.5	Pass
	2650	50	0	20	102	-1.101	-0.0004	-2.5 to 2.5	Pass
					120	0.229	0.0001	-2.5 to 2.5	Pass
					138	0.529	0.0002	-2.5 to 2.5	Pass
				-30	120	0.129	0.0000	-2.5 to 2.5	Pass
				-20	120	-2.403	-0.0009	-2.5 to 2.5	Pass
				-10	120	1.616	0.0006	-2.5 to 2.5	Pass
				0	120	-1.287	-0.0005	-2.5 to 2.5	Pass
				10	120	7.911	0.0030	-2.5 to 2.5	Pass
				30	120	0.558	0.0002	-2.5 to 2.5	Pass
				40	120	-0.601	-0.0002	-2.5 to 2.5	Pass
16QAM	2560	27	0	20	102	3.934	0.0015	-2.5 to 2.5	Pass
					120	-5.279	-0.0021	-2.5 to 2.5	Pass
					138	3.805	0.0015	-2.5 to 2.5	Pass
				-30	120	4.177	0.0016	-2.5 to 2.5	Pass
				-20	120	-2.332	-0.0009	-2.5 to 2.5	Pass
				-10	120	-0.844	-0.0003	-2.5 to 2.5	Pass
				0	120	5.679	0.0022	-2.5 to 2.5	Pass
				10	120	-1.988	-0.0008	-2.5 to 2.5	Pass
				30	120	3.719	0.0015	-2.5 to 2.5	Pass
				40	120	-1.588	-0.0006	-2.5 to 2.5	Pass
				50	120	-5.879	-0.0023	-2.5 to 2.5	Pass
	2605	27	0	20	102	10.386	0.0040	-2.5 to 2.5	Pass
					120	2.704	0.0010	-2.5 to 2.5	Pass
					138	7.668	0.0029	-2.5 to 2.5	Pass
				-30	120	7.825	0.0030	-2.5 to 2.5	Pass
				-20	120	-3.490	-0.0013	-2.5 to 2.5	Pass
				-10	120	-1.802	-0.0007	-2.5 to 2.5	Pass
				0	120	6.037	0.0023	-2.5 to 2.5	Pass
				10	120	0.672	0.0003	-2.5 to 2.5	Pass
				30	120	0.386	0.0001	-2.5 to 2.5	Pass
				40	120	-2.861	-0.0011	-2.5 to 2.5	Pass
				50	120	0.329	0.0001	-2.5 to 2.5	Pass

	2650	27	23	20	102	-1.702	-0.0006	-2.5 to 2.5	Pass
					120	-3.891	-0.0015	-2.5 to 2.5	Pass
					138	3.963	0.0015	-2.5 to 2.5	Pass
				-30	120	-0.229	-0.0001	-2.5 to 2.5	Pass
				-20	120	-1.903	-0.0007	-2.5 to 2.5	Pass
				-10	120	4.549	0.0017	-2.5 to 2.5	Pass
				0	120	3.819	0.0014	-2.5 to 2.5	Pass
				10	120	2.232	0.0008	-2.5 to 2.5	Pass
				30	120	5.136	0.0019	-2.5 to 2.5	Pass
				40	120	3.719	0.0014	-2.5 to 2.5	Pass
				50	120	-2.089	-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 (VAC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2562.5	75	0	20	102	3.233	0.0013	-2.5 to 2.5	Pass
					120	0.629	0.0002	-2.5 to 2.5	Pass
					138	0.014	0.0000	-2.5 to 2.5	Pass
				-30	120	2.961	0.0012	-2.5 to 2.5	Pass
				-20	120	1.316	0.0005	-2.5 to 2.5	Pass
				-10	120	2.489	0.0010	-2.5 to 2.5	Pass
				0	120	6.094	0.0024	-2.5 to 2.5	Pass
				10	120	0.830	0.0003	-2.5 to 2.5	Pass
				30	120	0.758	0.0003	-2.5 to 2.5	Pass
				40	120	1.960	0.0008	-2.5 to 2.5	Pass
				50	120	5.579	0.0022	-2.5 to 2.5	Pass
	2605	75	0	20	102	1.903	0.0007	-2.5 to 2.5	Pass
					120	5.579	0.0021	-2.5 to 2.5	Pass
					138	4.921	0.0019	-2.5 to 2.5	Pass
				-30	120	-2.775	-0.0011	-2.5 to 2.5	Pass
				-20	120	6.509	0.0025	-2.5 to 2.5	Pass
				-10	120	7.138	0.0027	-2.5 to 2.5	Pass
				0	120	0.300	0.0001	-2.5 to 2.5	Pass
				10	120	2.189	0.0008	-2.5 to 2.5	Pass
				30	120	5.207	0.0020	-2.5 to 2.5	Pass
				40	120	-0.286	-0.0001	-2.5 to 2.5	Pass
				50	120	1.531	0.0006	-2.5 to 2.5	Pass
	2647.5	75	0	20	102	-0.486	-0.0002	-2.5 to 2.5	Pass
					120	-0.315	-0.0001	-2.5 to 2.5	Pass
					138	2.689	0.0010	-2.5 to 2.5	Pass
				-30	120	-4.635	-0.0018	-2.5 to 2.5	Pass
				-20	120	1.631	0.0006	-2.5 to 2.5	Pass
				-10	120	6.022	0.0023	-2.5 to 2.5	Pass
				0	120	2.260	0.0009	-2.5 to 2.5	Pass
				10	120	2.861	0.0011	-2.5 to 2.5	Pass
				30	120	-3.591	-0.0014	-2.5 to 2.5	Pass
				40	120	1.059	0.0004	-2.5 to 2.5	Pass
				50	120	1.059	0.0004	-2.5 to 2.5	Pass
16QAM	2562.5	27	0	20	102	7.067	0.0028	-2.5 to 2.5	Pass
					120	2.804	0.0011	-2.5 to 2.5	Pass
					138	6.995	0.0027	-2.5 to 2.5	Pass
				-30	120	-0.758	-0.0003	-2.5 to 2.5	Pass
				-20	120	2.375	0.0009	-2.5 to 2.5	Pass
				-10	120	2.975	0.0012	-2.5 to 2.5	Pass
				0	120	-0.043	0.0000	-2.5 to 2.5	Pass
				10	120	1.731	0.0007	-2.5 to 2.5	Pass
				30	120	0.043	0.0000	-2.5 to 2.5	Pass
				40	120	5.980	0.0023	-2.5 to 2.5	Pass
				50	120	4.063	0.0016	-2.5 to 2.5	Pass
	2605	27	0	20	102	11.258	0.0043	-2.5 to 2.5	Pass
					120	7.582	0.0029	-2.5 to 2.5	Pass
					138	-5.822	-0.0022	-2.5 to 2.5	Pass
				-30	120	0.386	0.0001	-2.5 to 2.5	Pass
				-20	120	4.420	0.0017	-2.5 to 2.5	Pass
				-10	120	-1.831	-0.0007	-2.5 to 2.5	Pass
				0	120	-0.014	0.0000	-2.5 to 2.5	Pass
				10	120	-5.679	-0.0022	-2.5 to 2.5	Pass
				30	120	6.480	0.0025	-2.5 to 2.5	Pass
				40	120	6.223	0.0024	-2.5 to 2.5	Pass
				50	120	1.903	0.0007	-2.5 to 2.5	Pass

	2647.5	27	48	20	102	2.031	0.0008	-2.5 to 2.5	Pass
					120	-1.616	-0.0006	-2.5 to 2.5	Pass
					138	6.108	0.0023	-2.5 to 2.5	Pass
				-30	120	5.965	0.0023	-2.5 to 2.5	Pass
				-20	120	1.287	0.0005	-2.5 to 2.5	Pass
				-10	120	-1.917	-0.0007	-2.5 to 2.5	Pass
				0	120	-5.736	-0.0022	-2.5 to 2.5	Pass
				10	120	1.230	0.0005	-2.5 to 2.5	Pass
				30	120	-2.389	-0.0009	-2.5 to 2.5	Pass
				40	120	5.007	0.0019	-2.5 to 2.5	Pass
				50	120	-2.947	-0.0011	-2.5 to 2.5	Pass

2.1.4 B41_20MHz

Band: 41 / Bandwidth: 20MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VAC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2565	100	0	20	102	2.031	0.0008	-2.5 to 2.5	Pass
					120	1.144	0.0004	-2.5 to 2.5	Pass
					138	6.566	0.0026	-2.5 to 2.5	Pass
				-30	120	2.661	0.0010	-2.5 to 2.5	Pass
				-20	120	1.287	0.0005	-2.5 to 2.5	Pass
				-10	120	2.933	0.0011	-2.5 to 2.5	Pass
				0	120	6.137	0.0024	-2.5 to 2.5	Pass
				10	120	-1.831	-0.0007	-2.5 to 2.5	Pass
				30	120	-0.486	-0.0002	-2.5 to 2.5	Pass
				40	120	5.279	0.0021	-2.5 to 2.5	Pass
				50	120	1.960	0.0008	-2.5 to 2.5	Pass
	2605	100	0	20	102	6.266	0.0024	-2.5 to 2.5	Pass
					120	-0.772	-0.0003	-2.5 to 2.5	Pass
					138	1.488	0.0006	-2.5 to 2.5	Pass
				-30	120	7.524	0.0029	-2.5 to 2.5	Pass
				-20	120	2.131	0.0008	-2.5 to 2.5	Pass
				-10	120	4.048	0.0016	-2.5 to 2.5	Pass
				0	120	2.804	0.0011	-2.5 to 2.5	Pass
				10	120	-2.475	-0.0010	-2.5 to 2.5	Pass
				30	120	4.950	0.0019	-2.5 to 2.5	Pass
				40	120	1.202	0.0005	-2.5 to 2.5	Pass
				50	120	4.592	0.0018	-2.5 to 2.5	Pass
	2645	100	0	20	102	1.130	0.0004	-2.5 to 2.5	Pass
					120	-1.302	-0.0005	-2.5 to 2.5	Pass
					138	-0.930	-0.0004	-2.5 to 2.5	Pass
				-30	120	0.472	0.0002	-2.5 to 2.5	Pass
				-20	120	0.200	0.0001	-2.5 to 2.5	Pass
				-10	120	0.057	0.0000	-2.5 to 2.5	Pass
				0	120	2.303	0.0009	-2.5 to 2.5	Pass
				10	120	2.432	0.0009	-2.5 to 2.5	Pass
				30	120	-0.329	-0.0001	-2.5 to 2.5	Pass
				40	120	-2.332	-0.0009	-2.5 to 2.5	Pass
16QAM	2565	27	0	20	102	4.506	0.0018	-2.5 to 2.5	Pass
					120	-1.087	-0.0004	-2.5 to 2.5	Pass
					138	3.304	0.0013	-2.5 to 2.5	Pass
				-30	120	-0.014	0.0000	-2.5 to 2.5	Pass
				-20	120	-2.160	-0.0008	-2.5 to 2.5	Pass
				-10	120	1.101	0.0004	-2.5 to 2.5	Pass
				0	120	0.815	0.0003	-2.5 to 2.5	Pass
				10	120	6.480	0.0025	-2.5 to 2.5	Pass
				30	120	-2.418	-0.0009	-2.5 to 2.5	Pass
				40	120	1.159	0.0005	-2.5 to 2.5	Pass
				50	120	11.029	0.0043	-2.5 to 2.5	Pass
	2605	27	0	20	102	0.243	0.0001	-2.5 to 2.5	Pass
					120	9.327	0.0036	-2.5 to 2.5	Pass
					138	8.440	0.0032	-2.5 to 2.5	Pass
				-30	120	-3.176	-0.0012	-2.5 to 2.5	Pass
				-20	120	7.510	0.0029	-2.5 to 2.5	Pass
				-10	120	3.090	0.0012	-2.5 to 2.5	Pass
				0	120	8.283	0.0032	-2.5 to 2.5	Pass
				10	120	-3.004	-0.0012	-2.5 to 2.5	Pass
				30	120	-3.734	-0.0014	-2.5 to 2.5	Pass
				40	120	4.249	0.0016	-2.5 to 2.5	Pass
				50	120	2.389	0.0009	-2.5 to 2.5	Pass

	2645	27	73	20	102	-5.622	-0.0021	-2.5 to 2.5	Pass
					120	1.245	0.0005	-2.5 to 2.5	Pass
					138	-4.435	-0.0017	-2.5 to 2.5	Pass
				-30	120	1.717	0.0006	-2.5 to 2.5	Pass
				-20	120	-0.458	-0.0002	-2.5 to 2.5	Pass
				-10	120	0.958	0.0004	-2.5 to 2.5	Pass
				0	120	0.730	0.0003	-2.5 to 2.5	Pass
				10	120	-0.672	-0.0003	-2.5 to 2.5	Pass
				30	120	0.515	0.0002	-2.5 to 2.5	Pass
				40	120	1.702	0.0006	-2.5 to 2.5	Pass
				50	120	6.409	0.0024	-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	27	0	Refer To Test Graph		Pass

3.1.3 B41_15MHz

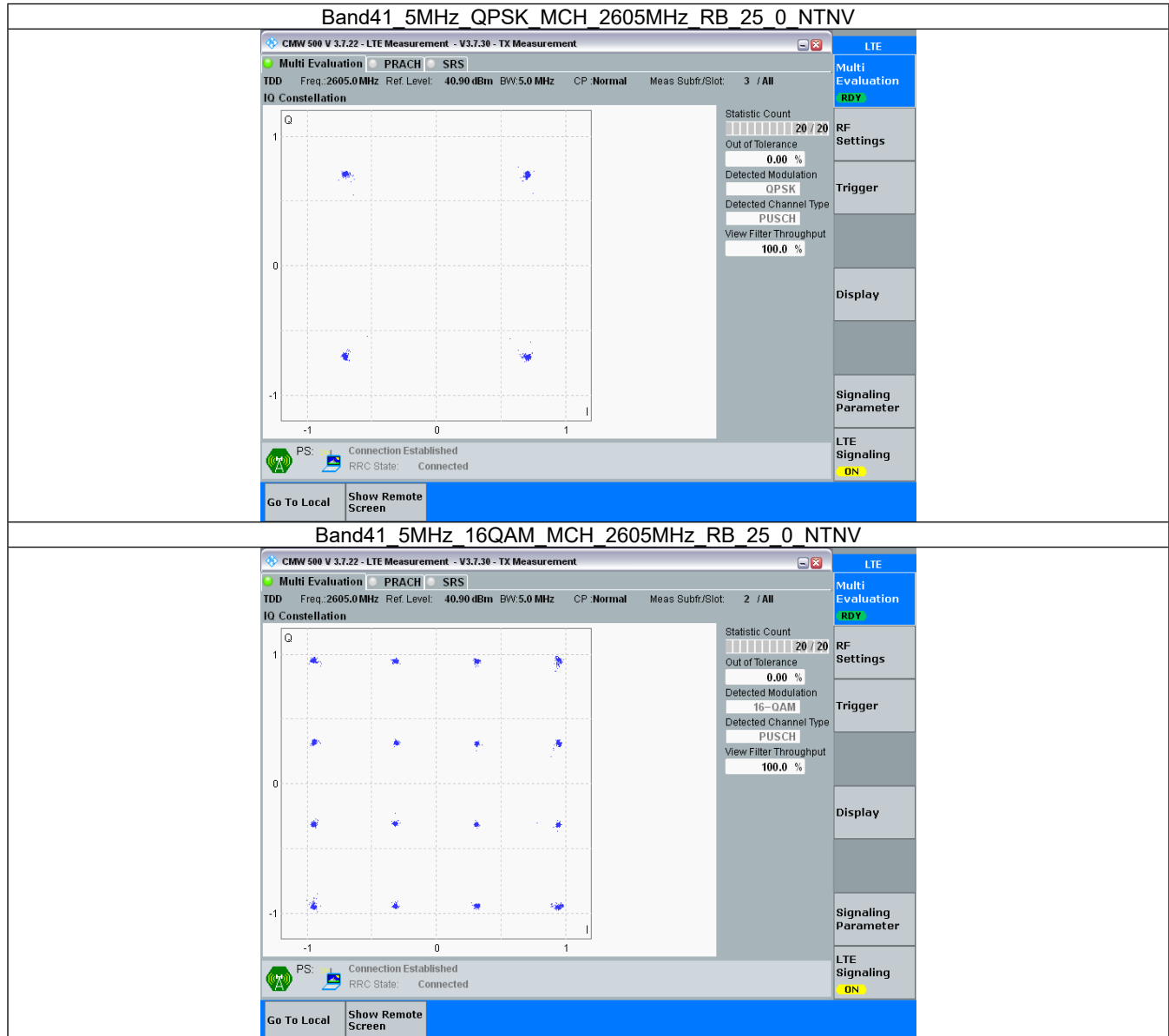
Band: 41 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2605	75	0	Refer To Test Graph		Pass
16QAM	2605	27	0	Refer To Test Graph		Pass

3.1.4 B41_20MHz

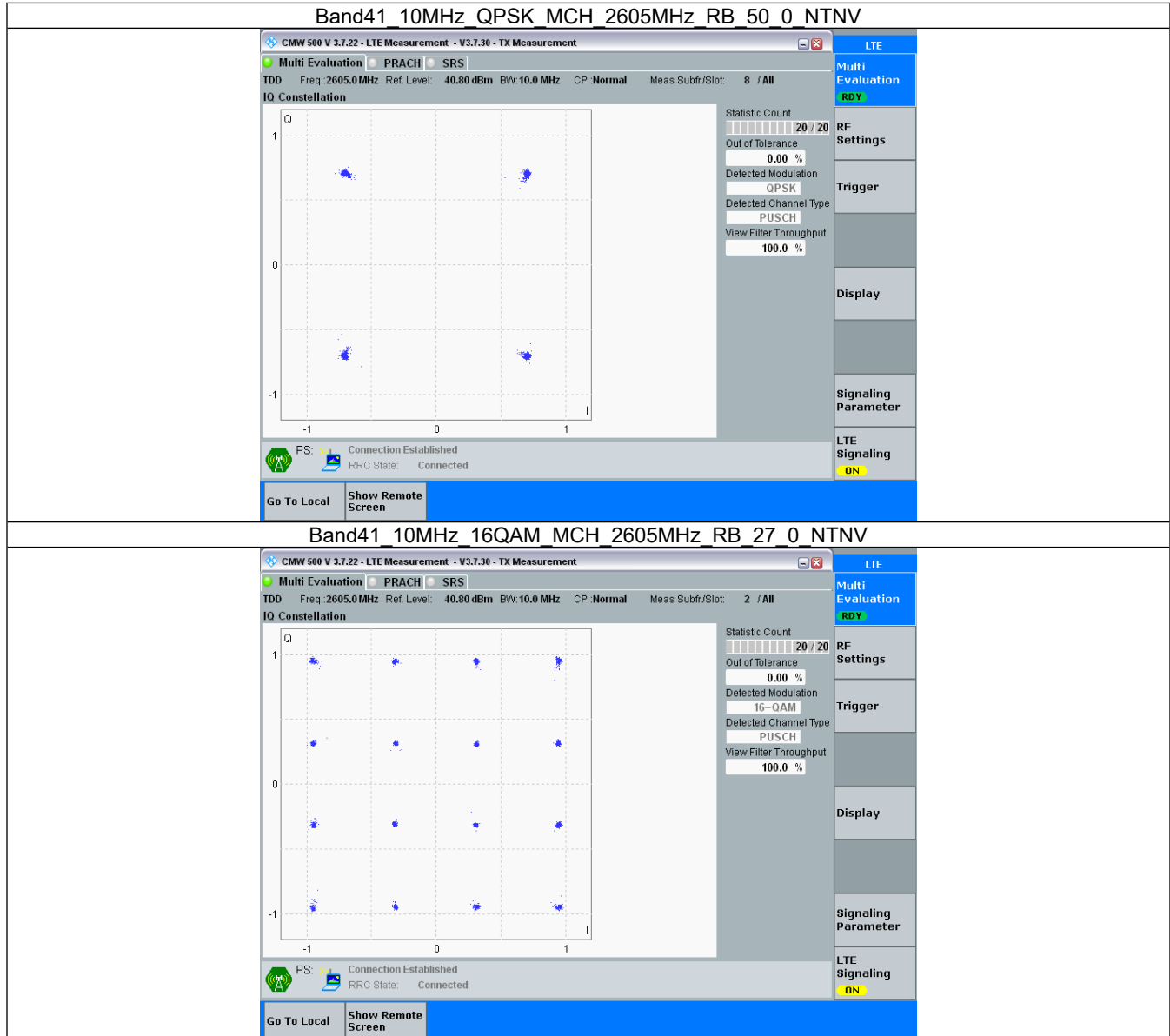
Band: 41 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2605	100	0	Refer To Test Graph		Pass
16QAM	2605	27	0	Refer To Test Graph		Pass

3.2 Test Graph

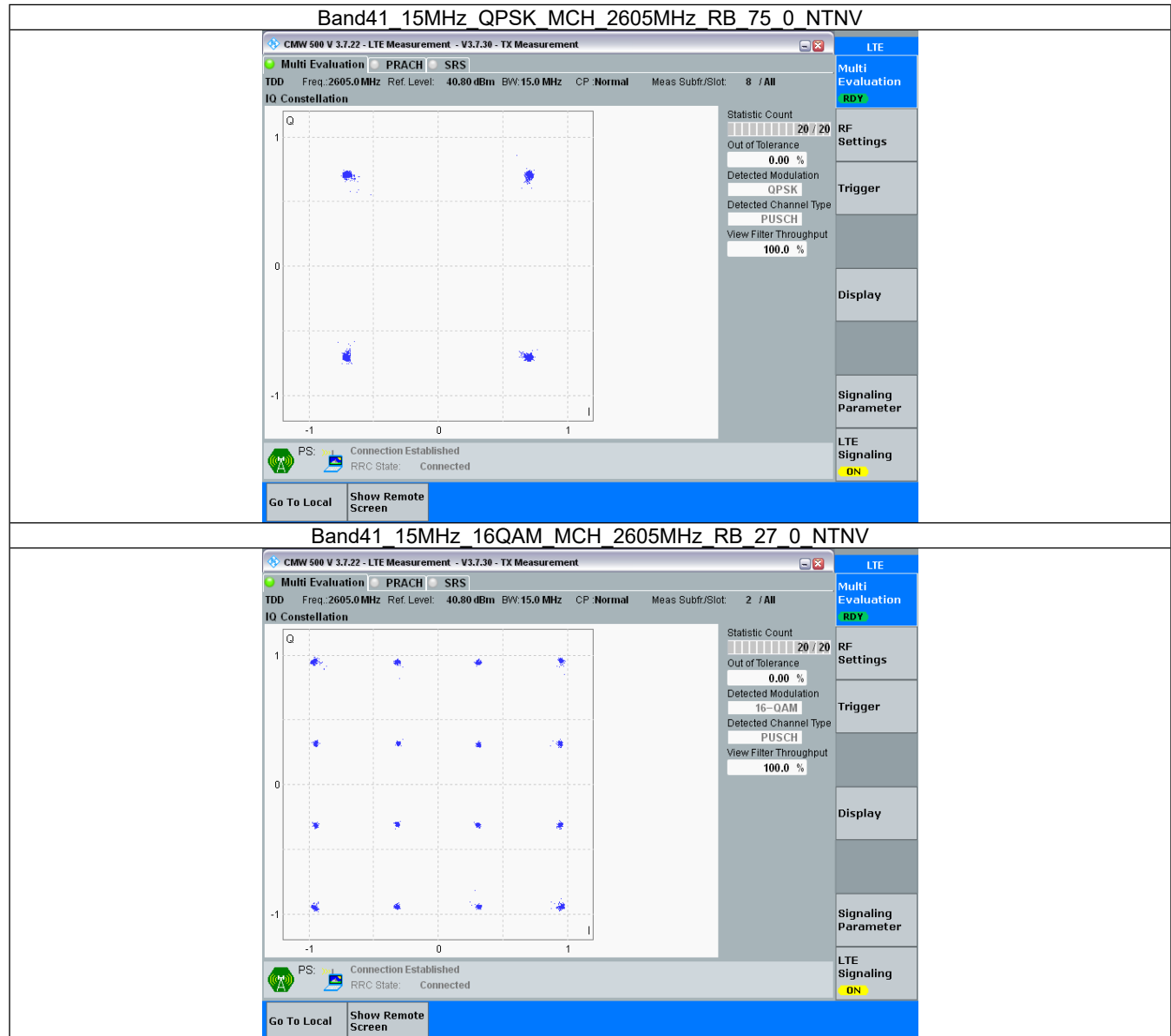
3.2.1 B41_5MHz



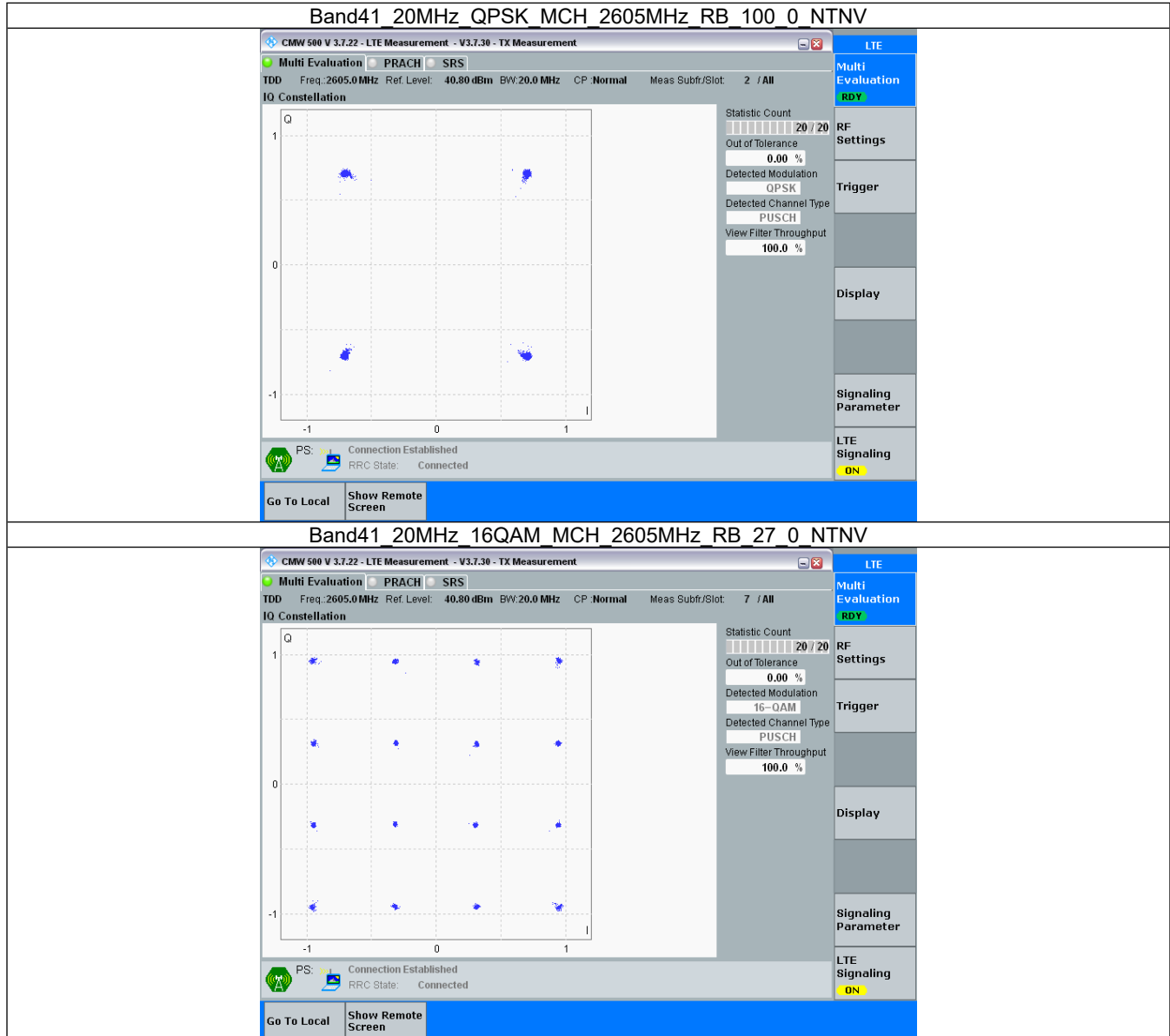
3.2.2 B41_10MHz



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	2557.5	25	0	4.556	/	Pass
		2605	25	0	4.558	/	Pass
		2652.5	25	0	4.555	/	Pass
	16QAM	2557.5	25	0	4.548	/	Pass
		2605	25	0	4.584	/	Pass
		2652.5	25	0	4.535	/	Pass
10	QPSK	2560	50	0	9.060	/	Pass
		2605	50	0	9.073	/	Pass
		2650	50	0	9.086	/	Pass
	16QAM	2560	27	0	5.109	/	Pass
		2605	27	0	5.110	/	Pass
		2650	27	23	5.098	/	Pass
15	QPSK	2562.5	75	0	13.557	/	Pass
		2605	75	0	13.584	/	Pass
		2647.5	75	0	13.629	/	Pass
	16QAM	2562.5	27	0	5.299	/	Pass
		2605	27	0	5.342	/	Pass
		2647.5	27	48	5.400	/	Pass
20	QPSK	2565	100	0	18.151	/	Pass
		2605	100	0	18.098	/	Pass
		2645	100	0	18.085	/	Pass
	16QAM	2565	27	0	5.588	/	Pass
		2605	27	0	5.717	/	Pass
		2645	27	73	5.642	/	Pass

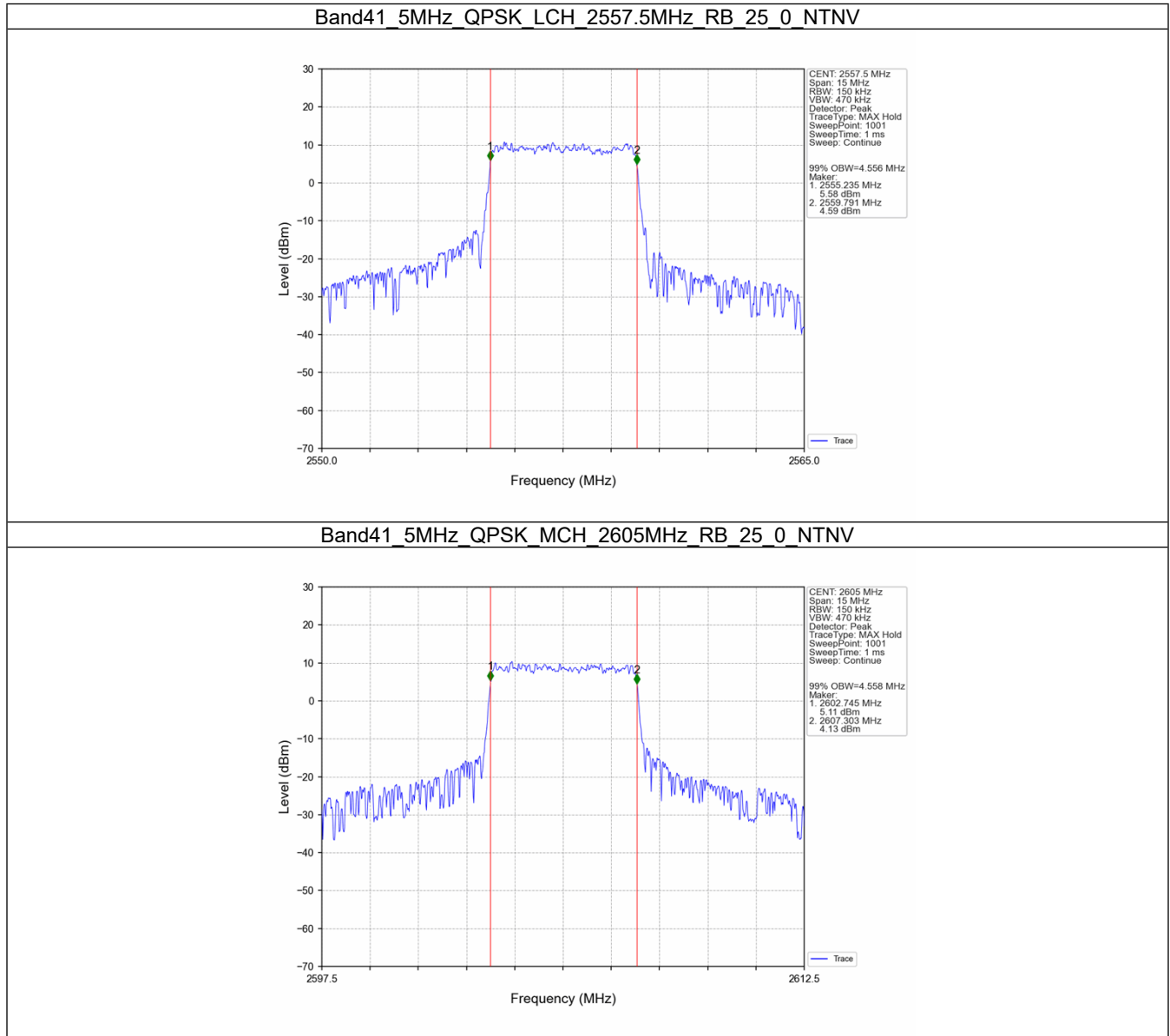
4.1.2 Band41_XDB

Band: 41 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2557.5	25	0	5.668	/	Pass
		2605	25	0	5.738	/	Pass
		2652.5	25	0	5.092	/	Pass
	16QAM	2557.5	25	0	5.177	/	Pass
		2605	25	0	5.073	/	Pass
		2652.5	25	0	5.194	/	Pass
10	QPSK	2560	50	0	10.316	/	Pass
		2605	50	0	12.271	/	Pass
		2650	50	0	10.547	/	Pass
	16QAM	2560	27	0	6.352	/	Pass
		2605	27	0	6.138	/	Pass
		2650	27	23	7.462	/	Pass
15	QPSK	2562.5	75	0	15.566	/	Pass
		2605	75	0	14.909	/	Pass
		2647.5	75	0	18.826	/	Pass
	16QAM	2562.5	27	0	6.730	/	Pass
		2605	27	0	6.953	/	Pass
		2647.5	27	48	8.060	/	Pass
20	QPSK	2565	100	0	22.677	/	Pass

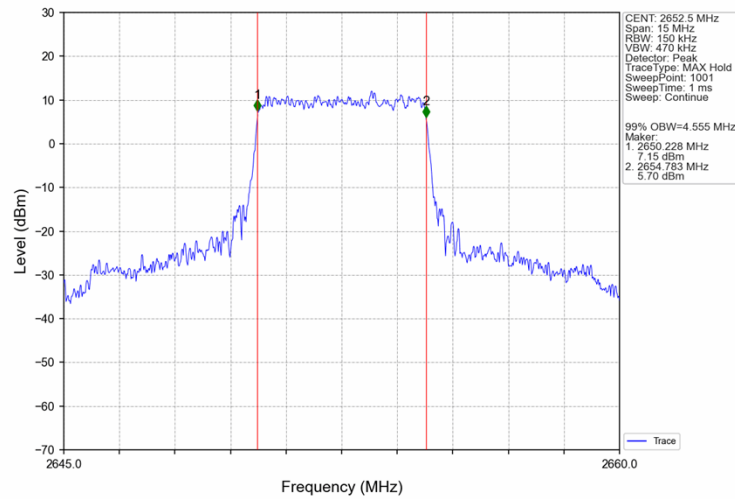
		2605	100	0	22.221	/	Pass
		2645	100	0	20.370	/	Pass
	16QAM	2565	27	0	7.431	/	Pass
		2605	27	0	10.018	/	Pass
		2645	27	73	9.023	/	Pass

4.2 Test Graph

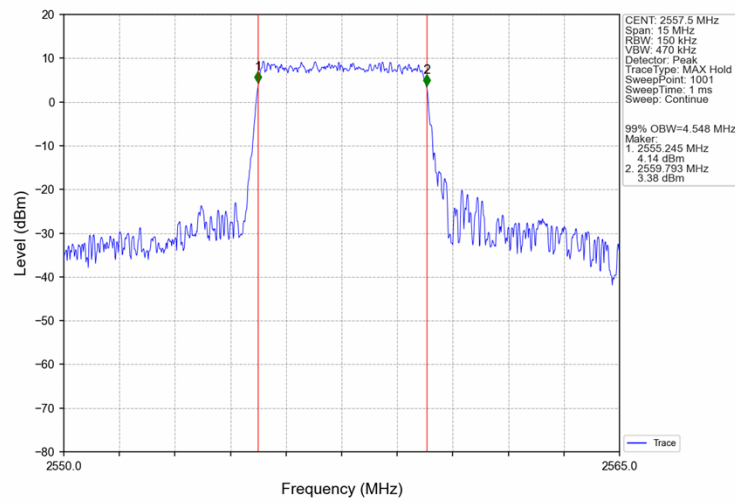
4.2.1 Band41_OBW



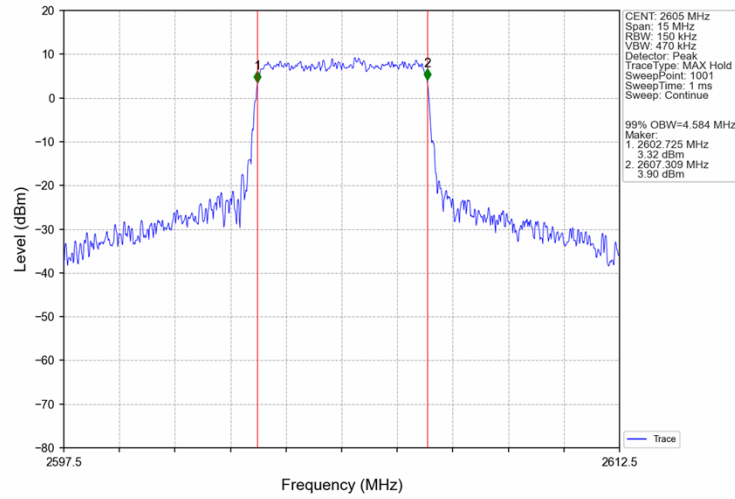
Band41_5MHz_QPSK_HCH_2652.5MHz_RB_25_0_NTNV



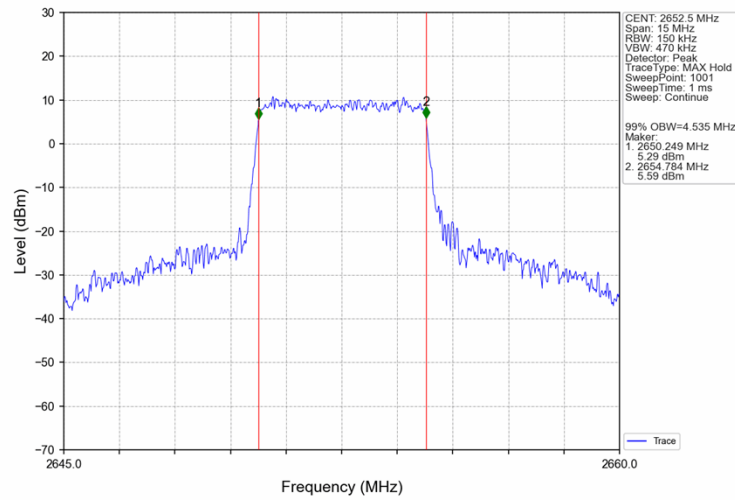
Band41_5MHz_16QAM_LCH_2557.5MHz_RB_25_0_NTNV



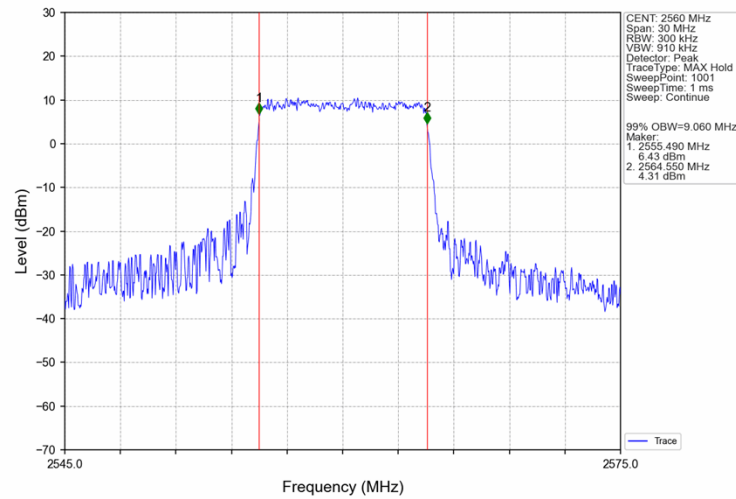
Band41_5MHz_16QAM_MCH_2605MHz_RB_25_0_NTNV



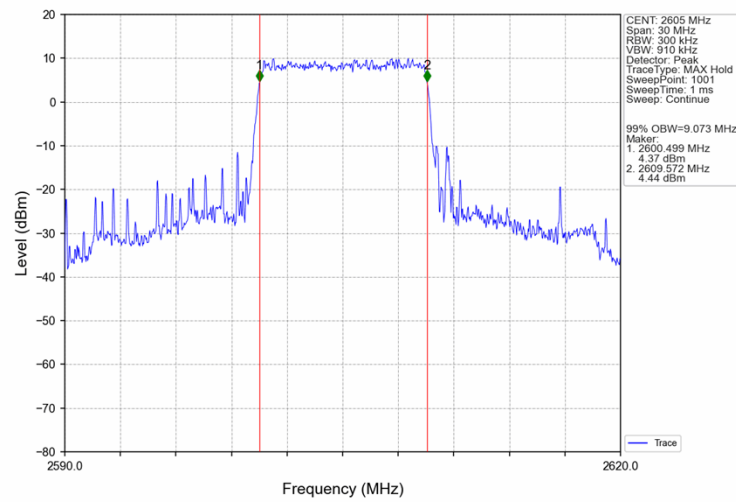
Band41_5MHz_16QAM_HCH_2652.5MHz_RB_25_0_NTNV



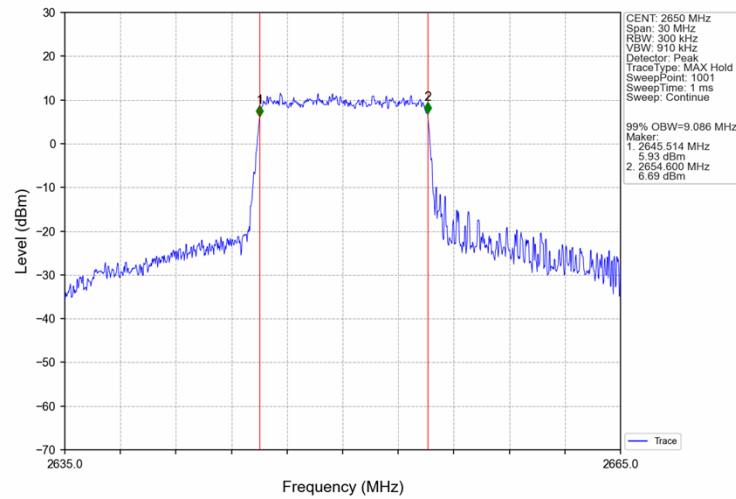
Band41_10MHz_QPSK_LCH_2560MHz_RB_50_0_NTNV



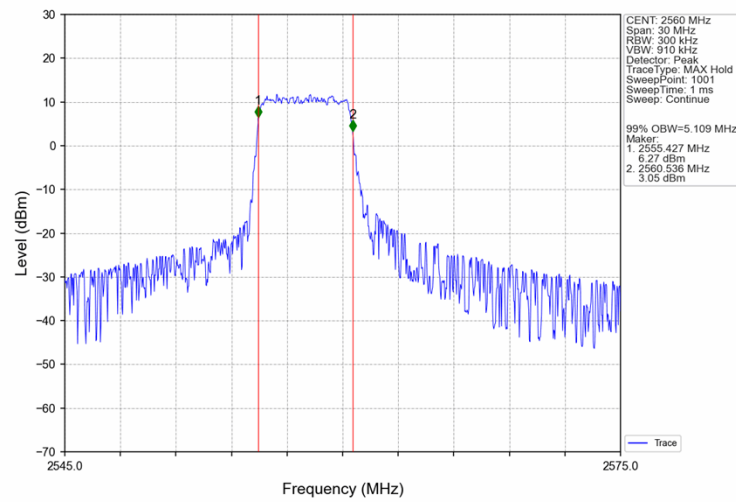
Band41_10MHz_QPSK_MCH_2605MHz_RB_50_0_NTNV



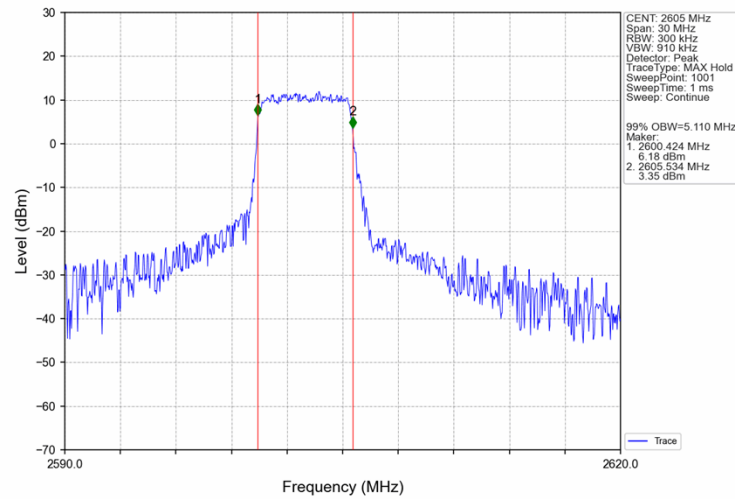
Band41_10MHz_QPSK_HCH_2650MHz_RB_50_0_NTNV



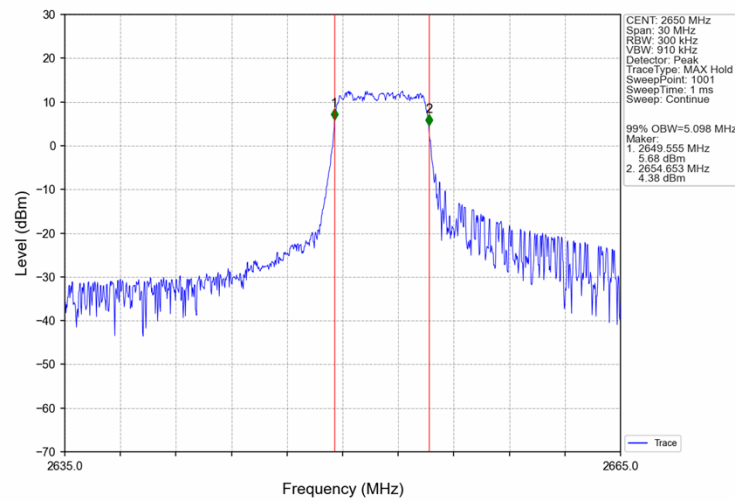
Band41_10MHz_16QAM_LCH_2560MHz_RB_27_0_NTNV



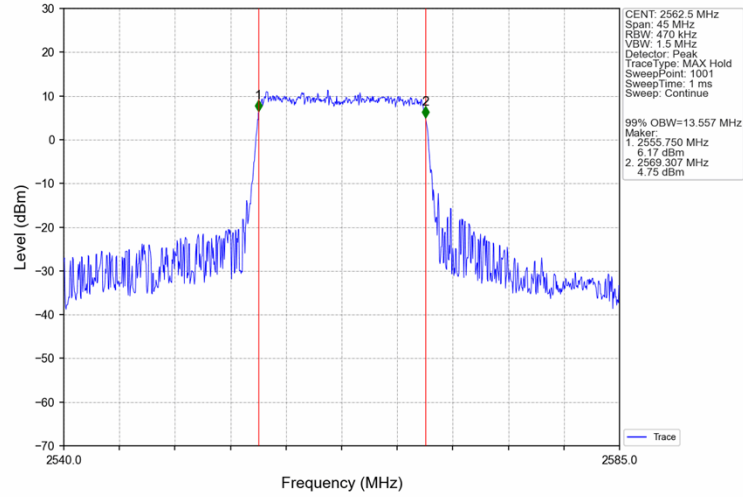
Band41_10MHz_16QAM_MCH_2605MHz_RB_27_0_NTNV



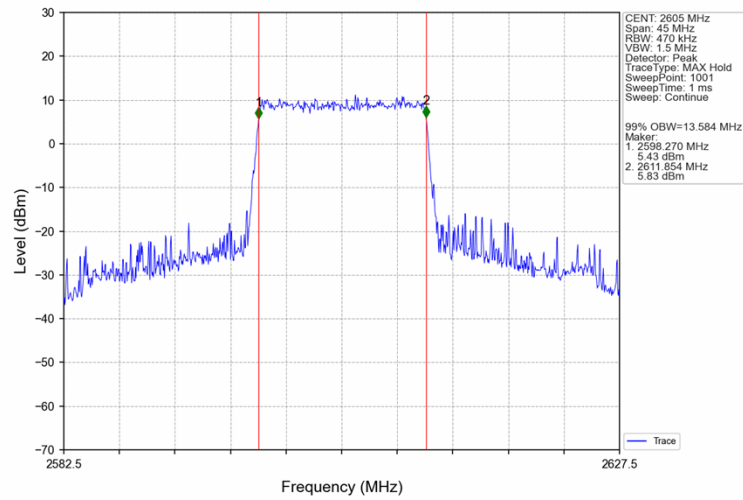
Band41_10MHz_16QAM_HCH_2650MHz_RB_27_23_NTNV



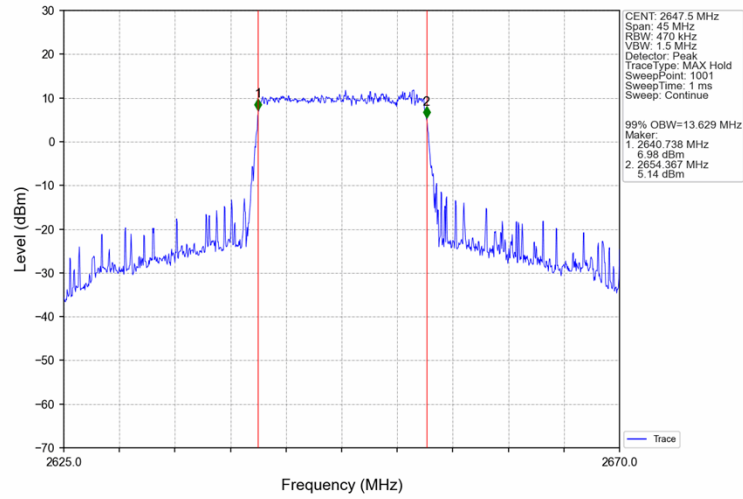
Band41_15MHz_QPSK_LCH_2562.5MHz_RB_75_0_NTNV



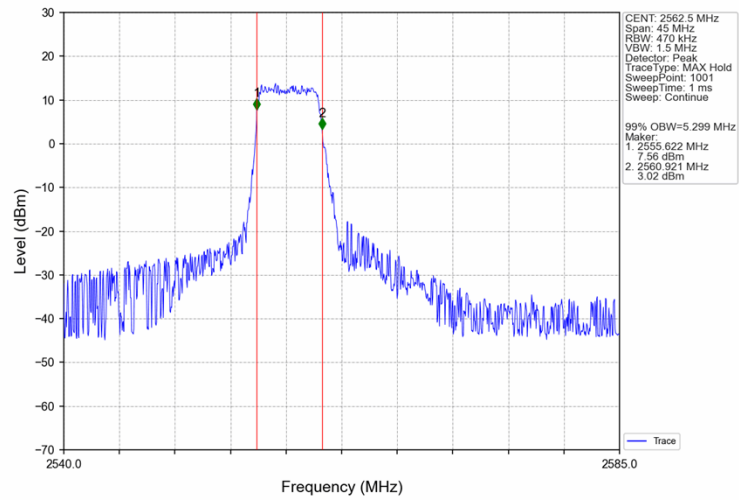
Band41_15MHz_QPSK_MCH_2605MHz_RB_75_0_NTNV



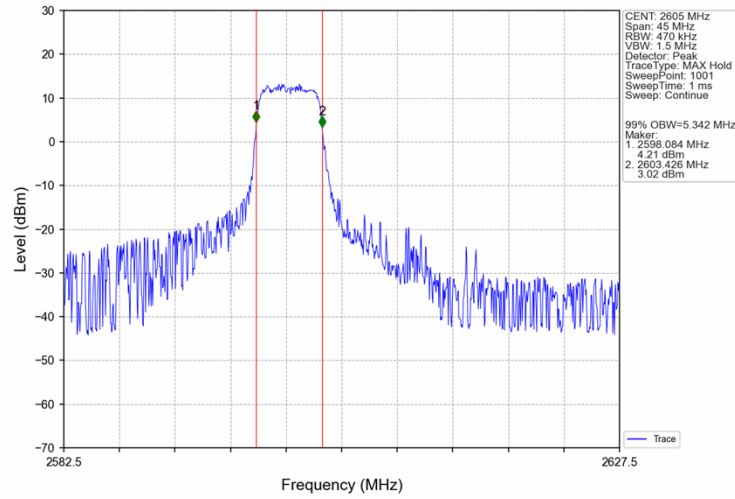
Band41_15MHz_QPSK_HCH_2647.5MHz_RB_75_0_NTNV



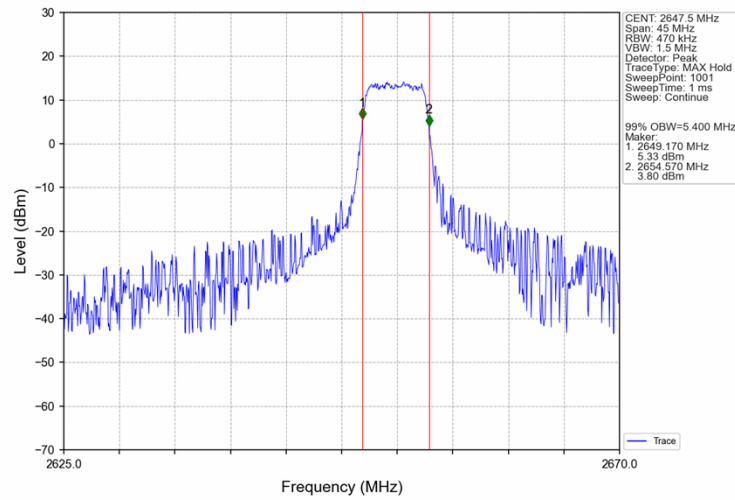
Band41_15MHz_16QAM_LCH_2562.5MHz_RB_27_0_NTNV



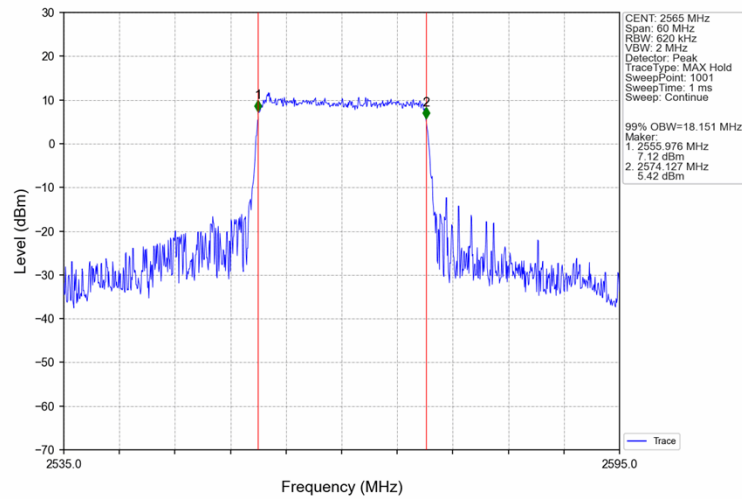
Band41_15MHz_16QAM_MCH_2605MHz_RB_27_0_NTNV



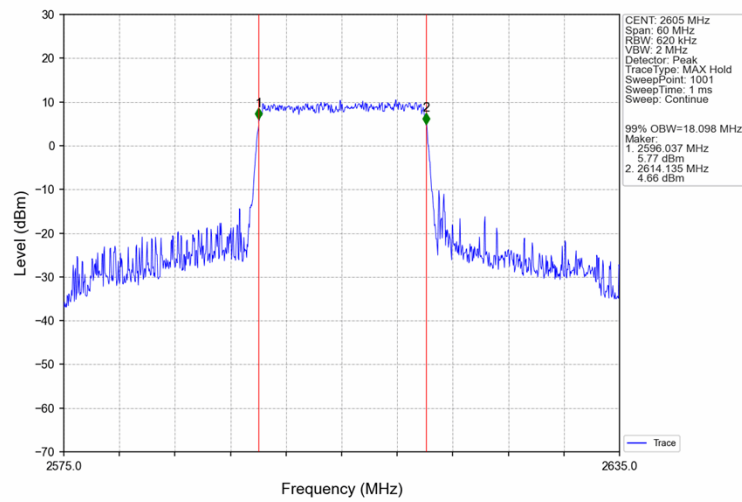
Band41_15MHz_16QAM_HCH_2647.5MHz_RB_27_48_NTNV



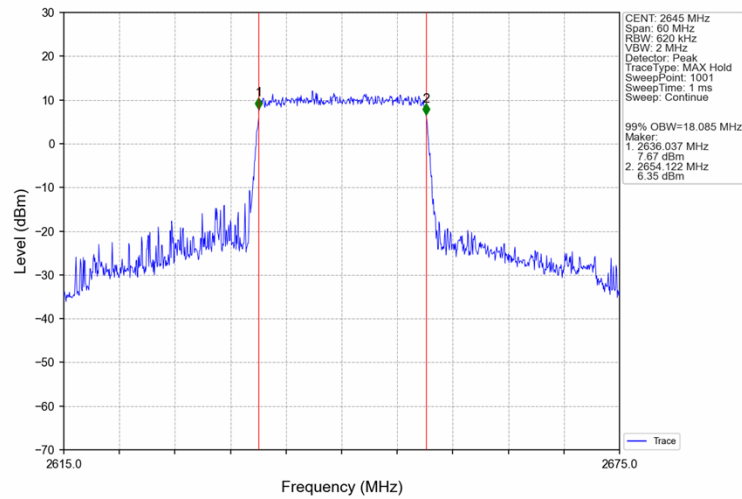
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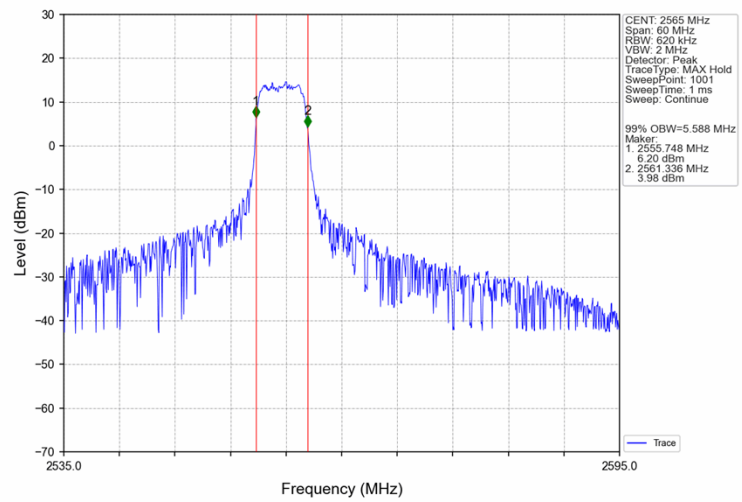
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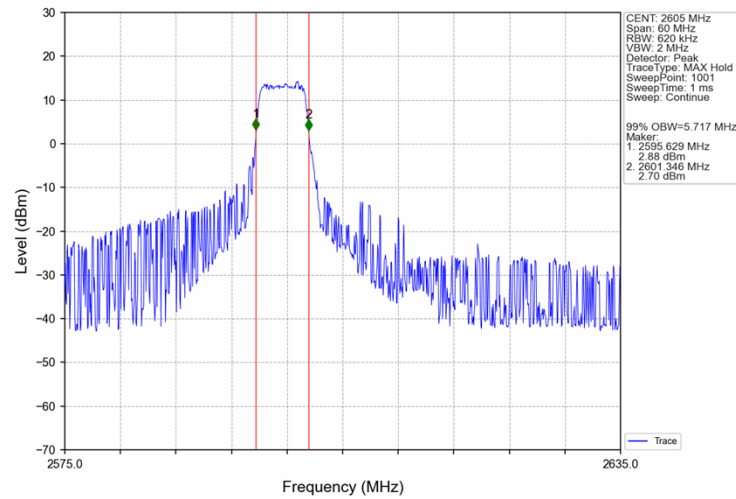
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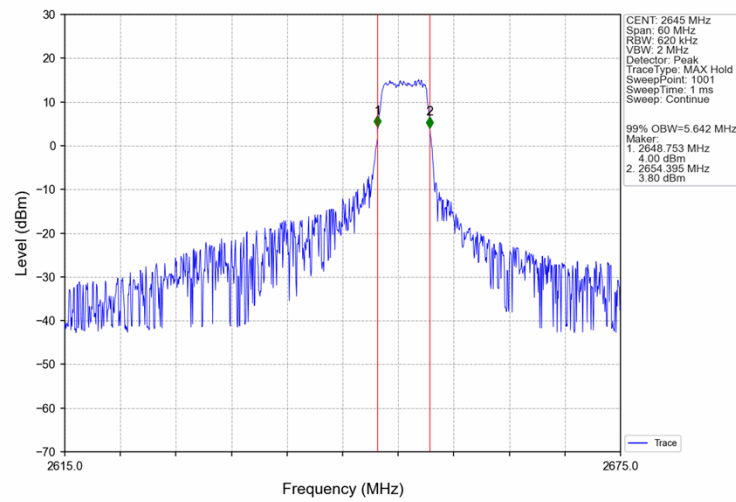
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Band41_20MHz_16QAM_MCH_2605MHz_RB_27_0_NTNV

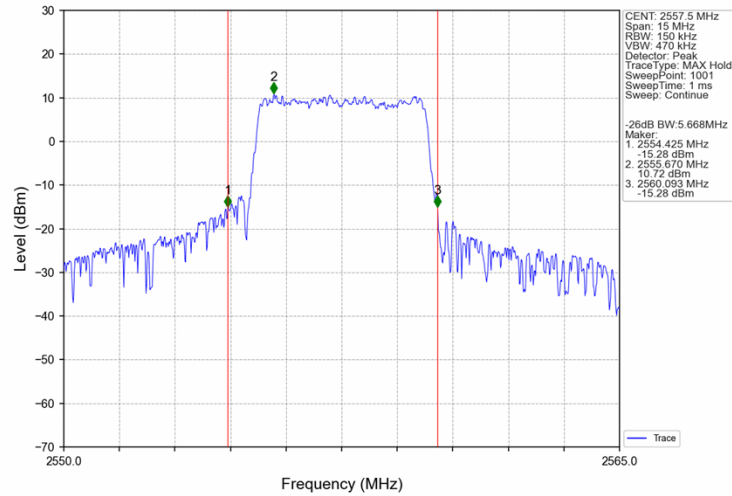


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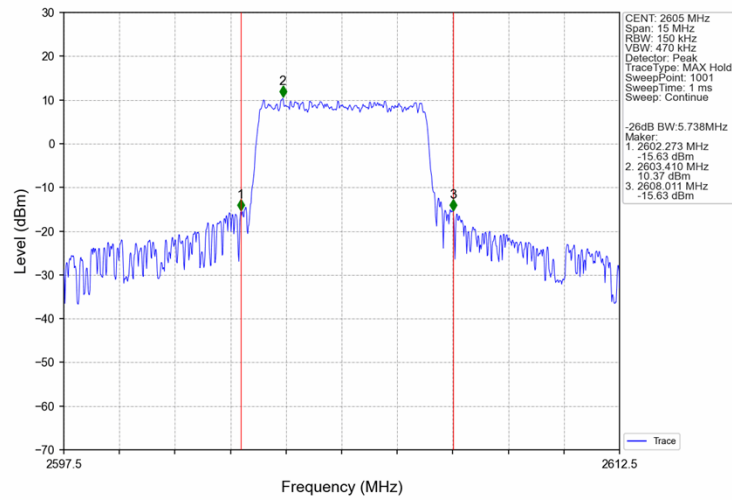


4.2.2 Band41_XDB

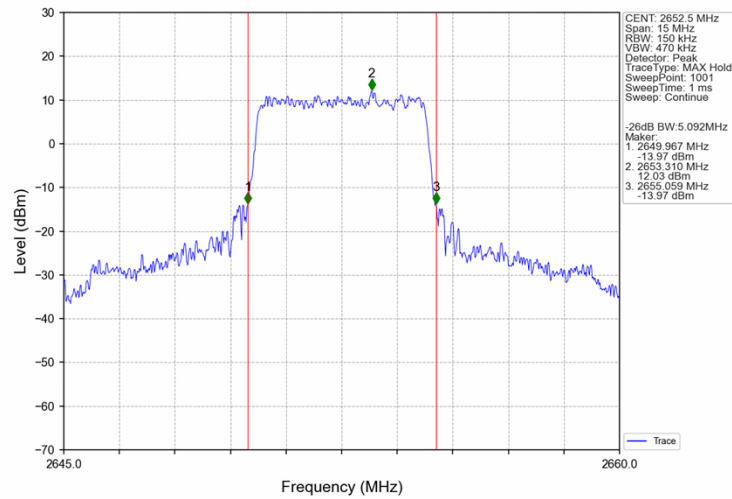
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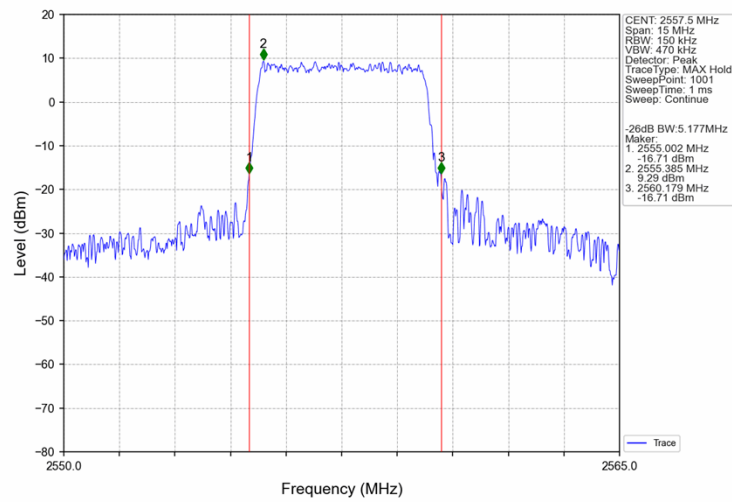
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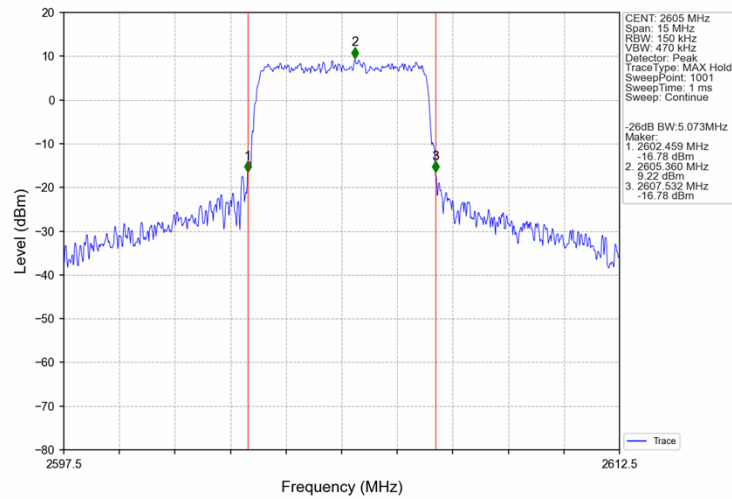
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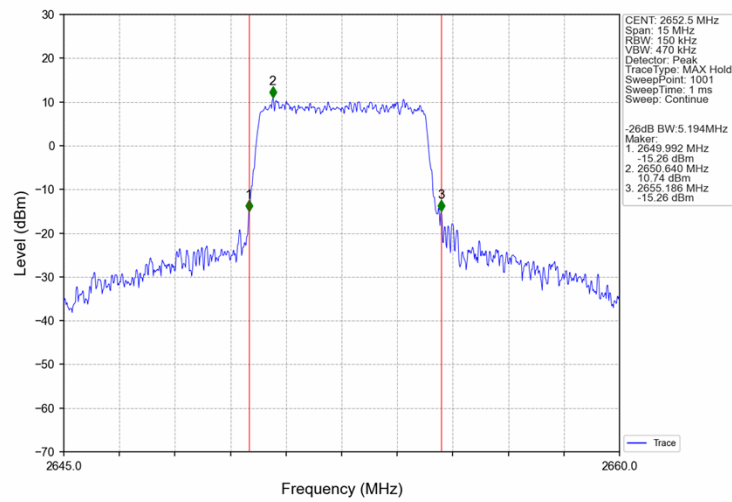
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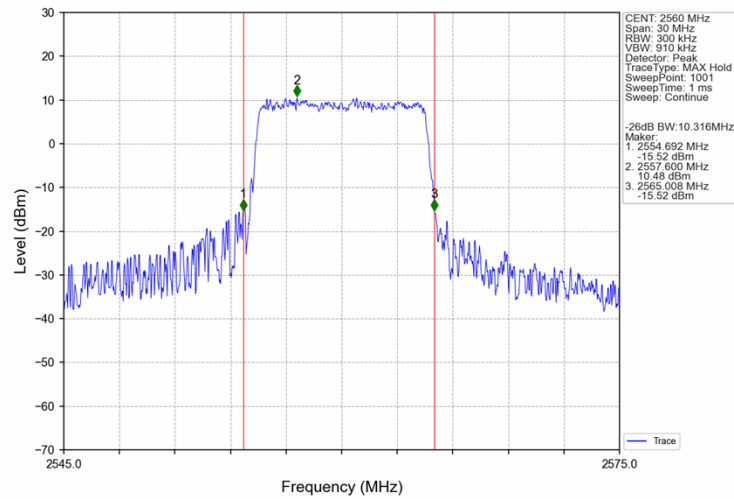
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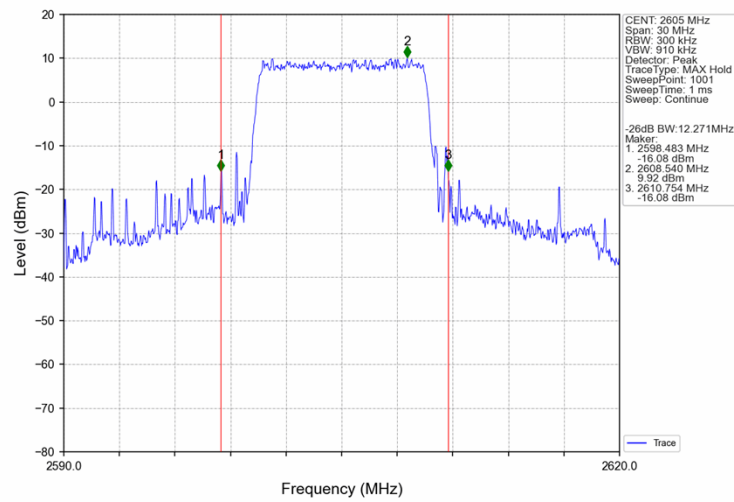
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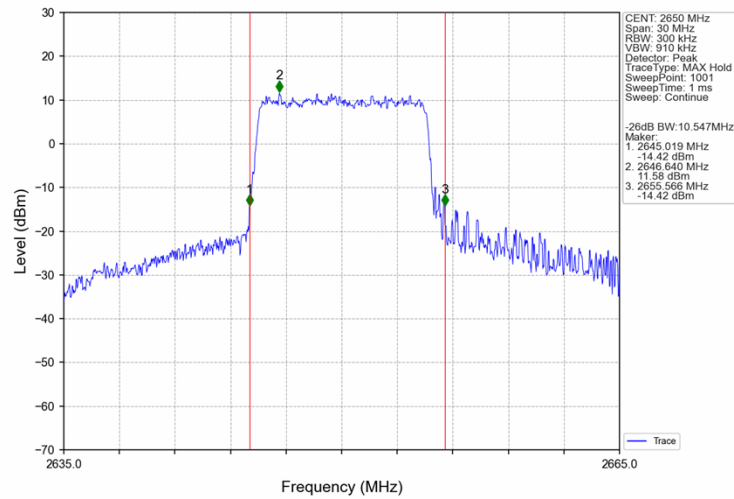
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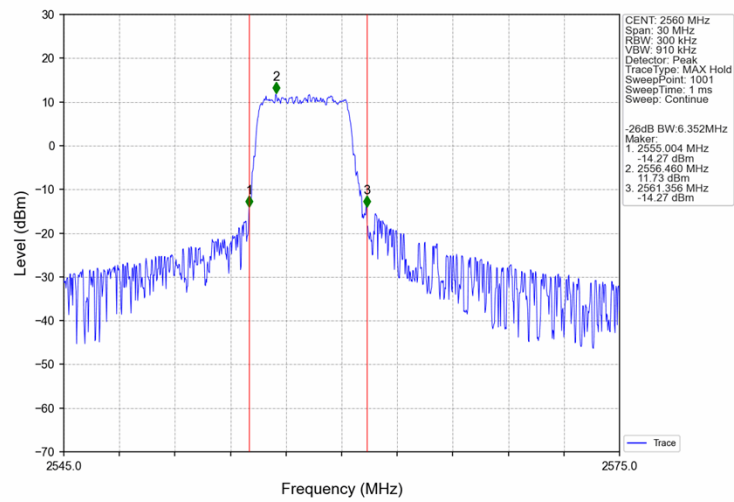
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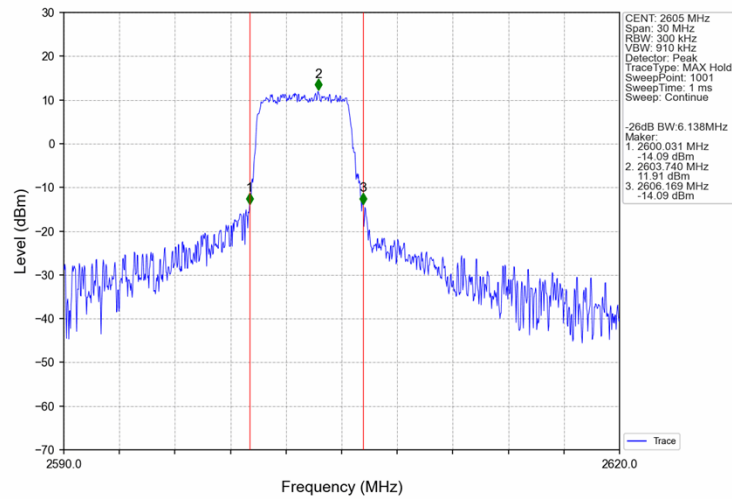
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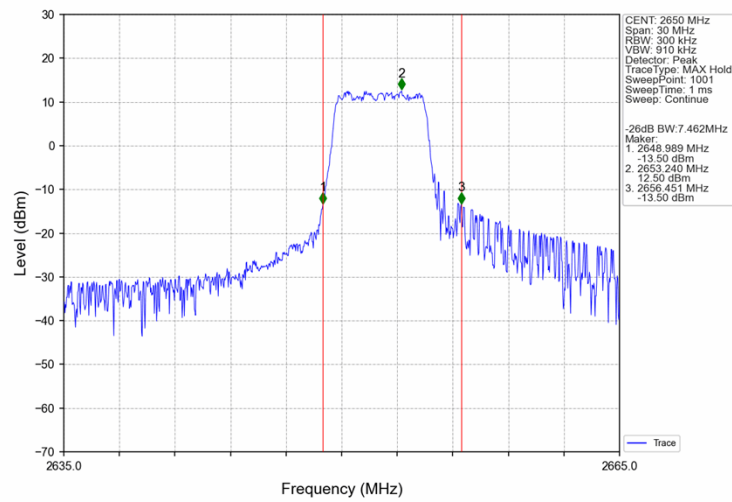
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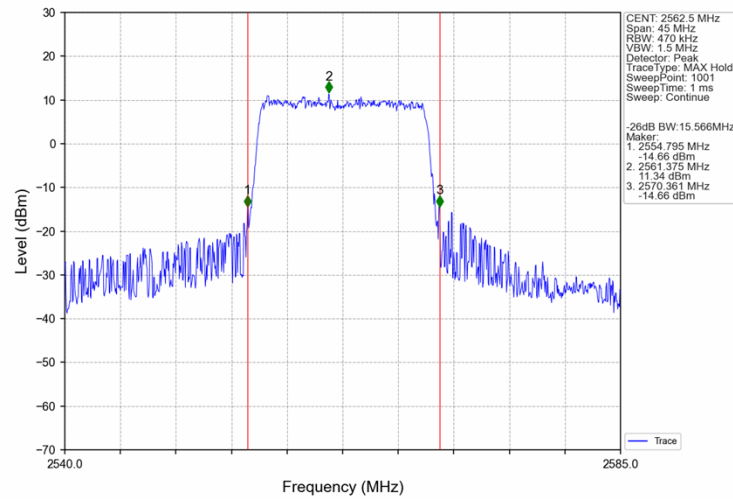
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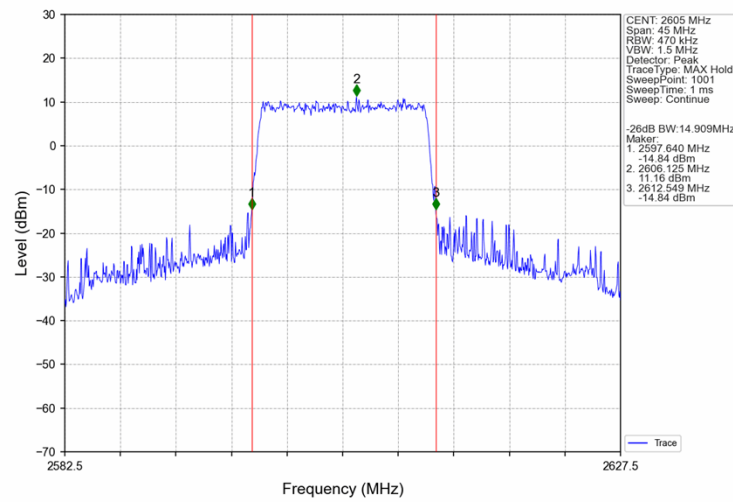
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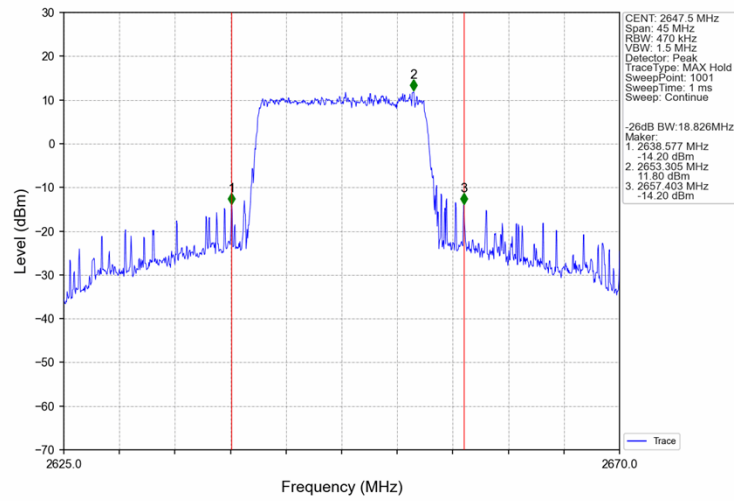
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Band41_15MHz_QPSK_MCH_2605MHz_RB_75_0_NTNV



Band41_15MHz_QPSK_HCH_2647.5MHz_RB_75_0_NTNV



Band41_15MHz_16QAM_LCH_2562.5MHz_RB_27_0_NTNV

