

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	23.02	1.90	24.92	<=33.01	Pass
			13	22.96	1.90	24.86	<=33.01	Pass
			24	23.08	1.90	24.98	<=33.01	Pass
		12	0	21.99	1.90	23.89	<=33.01	Pass
			6	21.96	1.90	23.86	<=33.01	Pass
			13	21.92	1.90	23.82	<=33.01	Pass
		25	0	21.94	1.90	23.84	<=33.01	Pass
	2605	1	0	23.11	1.90	25.01	<=33.01	Pass
			13	23.29	1.90	25.19	<=33.01	Pass
			24	23.33	1.90	25.23	<=33.01	Pass
		12	0	22.17	1.90	24.07	<=33.01	Pass
			6	22.12	1.90	24.02	<=33.01	Pass
			13	22.14	1.90	24.04	<=33.01	Pass
		25	0	22.13	1.90	24.03	<=33.01	Pass
	2652.5	1	0	23.93	1.90	25.83	<=33.01	Pass
			13	23.94	1.90	25.84	<=33.01	Pass
			24	23.96	1.90	25.86	<=33.01	Pass
		12	0	22.86	1.90	24.76	<=33.01	Pass
			6	22.87	1.90	24.77	<=33.01	Pass
			13	22.83	1.90	24.73	<=33.01	Pass
		25	0	22.91	1.90	24.81	<=33.01	Pass
16QAM	2557.5	1	0	21.93	1.90	23.83	<=33.01	Pass
			13	21.88	1.90	23.78	<=33.01	Pass
			24	21.99	1.90	23.89	<=33.01	Pass
		12	0	20.96	1.90	22.86	<=33.01	Pass
			6	20.93	1.90	22.83	<=33.01	Pass
			13	20.93	1.90	22.83	<=33.01	Pass
		25	0	20.90	1.90	22.80	<=33.01	Pass
	2605	1	0	22.25	1.90	24.15	<=33.01	Pass
			13	22.12	1.90	24.02	<=33.01	Pass
			24	22.18	1.90	24.08	<=33.01	Pass
		12	0	21.15	1.90	23.05	<=33.01	Pass
			6	21.14	1.90	23.04	<=33.01	Pass
			13	21.12	1.90	23.02	<=33.01	Pass
		25	0	21.14	1.90	23.04	<=33.01	Pass
	2652.5	1	0	22.60	1.90	24.50	<=33.01	Pass
			13	22.60	1.90	24.50	<=33.01	Pass
			24	22.94	1.90	24.84	<=33.01	Pass
		12	0	21.87	1.90	23.77	<=33.01	Pass
			6	21.88	1.90	23.78	<=33.01	Pass
			13	21.93	1.90	23.83	<=33.01	Pass
		25	0	21.86	1.90	23.76	<=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	22.97	1.90	24.87	<=33.01	Pass
			25	23.07	1.90	24.97	<=33.01	Pass
			49	23.09	1.90	24.99	<=33.01	Pass
		25	0	21.97	1.90	23.87	<=33.01	Pass
			13	21.97	1.90	23.87	<=33.01	Pass
			25	21.97	1.90	23.87	<=33.01	Pass
		50	0	21.99	1.90	23.89	<=33.01	Pass
			0	23.11	1.90	25.01	<=33.01	Pass
			25	23.12	1.90	25.02	<=33.01	Pass
	2605	1	49	23.06	1.90	24.96	<=33.01	Pass
			0	22.09	1.90	23.99	<=33.01	Pass
			13	22.11	1.90	24.01	<=33.01	Pass
		25	25	22.16	1.90	24.06	<=33.01	Pass
			0	22.16	1.90	24.06	<=33.01	Pass
			0	23.78	1.90	25.68	<=33.01	Pass
		25	25	23.77	1.90	25.67	<=33.01	Pass
			49	23.95	1.90	25.85	<=33.01	Pass
			0	22.75	1.90	24.65	<=33.01	Pass
	2650	25	13	22.84	1.90	24.74	<=33.01	Pass
			25	22.86	1.90	24.76	<=33.01	Pass
			0	22.87	1.90	24.77	<=33.01	Pass
16QAM	2560	1	0	21.76	1.90	23.66	<=33.01	Pass
			25	22.14	1.90	24.04	<=33.01	Pass
			49	22.13	1.90	24.03	<=33.01	Pass
		25	0	20.99	1.90	22.89	<=33.01	Pass
			13	20.97	1.90	22.87	<=33.01	Pass
			25	20.96	1.90	22.86	<=33.01	Pass
		50	0	20.99	1.90	22.89	<=33.01	Pass
			0	22.02	1.90	23.92	<=33.01	Pass
			25	22.10	1.90	24.00	<=33.01	Pass
	2605	1	49	22.40	1.90	24.30	<=33.01	Pass
			0	21.13	1.90	23.03	<=33.01	Pass
			13	21.16	1.90	23.06	<=33.01	Pass
		25	25	21.17	1.90	23.07	<=33.01	Pass
			0	21.13	1.90	23.03	<=33.01	Pass
			0	22.63	1.90	24.53	<=33.01	Pass
		25	25	22.59	1.90	24.49	<=33.01	Pass
			49	22.76	1.90	24.66	<=33.01	Pass
			0	21.74	1.90	23.64	<=33.01	Pass
	2650	25	13	21.84	1.90	23.74	<=33.01	Pass
			25	21.88	1.90	23.78	<=33.01	Pass
			0	21.83	1.90	23.73	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.3 B41_15MHz_EIRP

Band: 41 / Bandwidth: 15MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2562.5	1	0	22.88	1.90	24.78	<=33.01	Pass
			38	22.88	1.90	24.78	<=33.01	Pass
			74	23.03	1.90	24.93	<=33.01	Pass
		36	0	21.87	1.90	23.77	<=33.01	Pass
			18	21.90	1.90	23.80	<=33.01	Pass
			39	21.95	1.90	23.85	<=33.01	Pass
		75	0	21.93	1.90	23.83	<=33.01	Pass
	2605	1	0	22.90	1.90	24.80	<=33.01	Pass
			38	23.05	1.90	24.95	<=33.01	Pass
			74	23.15	1.90	25.05	<=33.01	Pass
		36	0	22.03	1.90	23.93	<=33.01	Pass
			18	22.07	1.90	23.97	<=33.01	Pass
			39	22.12	1.90	24.02	<=33.01	Pass
		75	0	22.12	1.90	24.02	<=33.01	Pass
	2647.5	1	0	23.70	1.90	25.60	<=33.01	Pass
			38	23.85	1.90	25.75	<=33.01	Pass
			74	23.95	1.90	25.85	<=33.01	Pass
		36	0	22.72	1.90	24.62	<=33.01	Pass
			18	22.73	1.90	24.63	<=33.01	Pass
			39	22.75	1.90	24.65	<=33.01	Pass
		75	0	22.78	1.90	24.68	<=33.01	Pass
16QAM	2562.5	1	0	21.58	1.90	23.48	<=33.01	Pass
			38	21.85	1.90	23.75	<=33.01	Pass
			74	21.73	1.90	23.63	<=33.01	Pass
		36	0	20.97	1.90	22.87	<=33.01	Pass
			18	20.98	1.90	22.88	<=33.01	Pass
			39	21.03	1.90	22.93	<=33.01	Pass
		75	0	20.95	1.90	22.85	<=33.01	Pass
	2605	1	0	21.85	1.90	23.75	<=33.01	Pass
			38	22.00	1.90	23.90	<=33.01	Pass
			74	22.01	1.90	23.91	<=33.01	Pass
		36	0	21.07	1.90	22.97	<=33.01	Pass
			18	21.07	1.90	22.97	<=33.01	Pass
			39	21.07	1.90	22.97	<=33.01	Pass
		75	0	21.09	1.90	22.99	<=33.01	Pass
	2647.5	1	0	22.76	1.90	24.66	<=33.01	Pass
			38	22.91	1.90	24.81	<=33.01	Pass
			74	22.88	1.90	24.78	<=33.01	Pass
		36	0	21.71	1.90	23.61	<=33.01	Pass
			18	21.75	1.90	23.65	<=33.01	Pass
			39	21.80	1.90	23.70	<=33.01	Pass
		75	0	21.73	1.90	23.63	<=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	22.72	1.90	24.62	<=33.01	Pass
			50	22.88	1.90	24.78	<=33.01	Pass
			99	23.02	1.90	24.92	<=33.01	Pass
		50	0	21.96	1.90	23.86	<=33.01	Pass
			25	21.94	1.90	23.84	<=33.01	Pass
			50	21.99	1.90	23.89	<=33.01	Pass
		100	0	21.96	1.90	23.86	<=33.01	Pass
	2605	1	0	22.85	1.90	24.75	<=33.01	Pass
			50	23.00	1.90	24.90	<=33.01	Pass
			99	23.17	1.90	25.07	<=33.01	Pass
		50	0	22.05	1.90	23.95	<=33.01	Pass
			25	22.13	1.90	24.03	<=33.01	Pass
			50	22.23	1.90	24.13	<=33.01	Pass
		100	0	22.09	1.90	23.99	<=33.01	Pass
	2645	1	0	23.58	1.90	25.48	<=33.01	Pass
			50	23.80	1.90	25.70	<=33.01	Pass
			99	23.86	1.90	25.76	<=33.01	Pass
		50	0	22.66	1.90	24.56	<=33.01	Pass
			25	22.83	1.90	24.73	<=33.01	Pass
			50	22.80	1.90	24.70	<=33.01	Pass
		100	0	22.70	1.90	24.60	<=33.01	Pass
16QAM	2565	1	0	21.90	1.90	23.80	<=33.01	Pass
			50	22.08	1.90	23.98	<=33.01	Pass
			99	22.17	1.90	24.07	<=33.01	Pass
		50	0	20.97	1.90	22.87	<=33.01	Pass
			25	20.93	1.90	22.83	<=33.01	Pass
			50	20.99	1.90	22.89	<=33.01	Pass
		100	0	20.95	1.90	22.85	<=33.01	Pass
	2605	1	0	22.03	1.90	23.93	<=33.01	Pass
			50	21.85	1.90	23.75	<=33.01	Pass
			99	21.88	1.90	23.78	<=33.01	Pass
		50	0	21.02	1.90	22.92	<=33.01	Pass
			25	21.13	1.90	23.03	<=33.01	Pass
			50	21.15	1.90	23.05	<=33.01	Pass
		100	0	21.06	1.90	22.96	<=33.01	Pass
	2645	1	0	22.48	1.90	24.38	<=33.01	Pass
			50	22.67	1.90	24.57	<=33.01	Pass
			99	23.02	1.90	24.92	<=33.01	Pass
		50	0	21.66	1.90	23.56	<=33.01	Pass
			25	21.79	1.90	23.69	<=33.01	Pass
			50	21.76	1.90	23.66	<=33.01	Pass
		100	0	21.73	1.90	23.63	<=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	3.23	-1.488	-0.0006	-2.5 to 2.5	Pass
					3.80	2.675	0.0010	-2.5 to 2.5	Pass
					4.37	3.262	0.0013	-2.5 to 2.5	Pass
				-30	3.80	-5.908	-0.0023	-2.5 to 2.5	Pass
				-20	3.80	2.503	0.0010	-2.5 to 2.5	Pass
				-10	3.80	-3.476	-0.0014	-2.5 to 2.5	Pass
				0	3.80	2.432	0.0010	-2.5 to 2.5	Pass
				10	3.80	-5.550	-0.0022	-2.5 to 2.5	Pass
				30	3.80	-1.888	-0.0007	-2.5 to 2.5	Pass
				40	3.80	0.615	0.0002	-2.5 to 2.5	Pass
				50	3.80	6.952	0.0027	-2.5 to 2.5	Pass
	2605	25	0	20	3.23	1.731	0.0007	-2.5 to 2.5	Pass
					3.80	4.478	0.0017	-2.5 to 2.5	Pass
					4.37	-8.612	-0.0033	-2.5 to 2.5	Pass
				-30	3.80	-2.332	-0.0009	-2.5 to 2.5	Pass
				-20	3.80	2.689	0.0010	-2.5 to 2.5	Pass
				-10	3.80	0.014	0.0000	-2.5 to 2.5	Pass
				0	3.80	-3.862	-0.0015	-2.5 to 2.5	Pass
				10	3.80	4.420	0.0017	-2.5 to 2.5	Pass
				30	3.80	8.183	0.0031	-2.5 to 2.5	Pass
				40	3.80	0.429	0.0002	-2.5 to 2.5	Pass
				50	3.80	9.212	0.0035	-2.5 to 2.5	Pass
	2652.5	25	0	20	3.23	-3.419	-0.0013	-2.5 to 2.5	Pass
					3.80	10.314	0.0039	-2.5 to 2.5	Pass
					4.37	-1.459	-0.0006	-2.5 to 2.5	Pass
				-30	3.80	-5.293	-0.0020	-2.5 to 2.5	Pass
				-20	3.80	3.991	0.0015	-2.5 to 2.5	Pass
				-10	3.80	9.942	0.0037	-2.5 to 2.5	Pass
				0	3.80	4.020	0.0015	-2.5 to 2.5	Pass
				10	3.80	12.474	0.0047	-2.5 to 2.5	Pass
				30	3.80	8.855	0.0033	-2.5 to 2.5	Pass
				40	3.80	6.766	0.0026	-2.5 to 2.5	Pass
				50	3.80	-3.862	-0.0015	-2.5 to 2.5	Pass
16QAM	2557.5	25	0	20	3.23	-6.251	-0.0024	-2.5 to 2.5	Pass
					3.80	-1.874	-0.0007	-2.5 to 2.5	Pass
					4.37	-0.472	-0.0002	-2.5 to 2.5	Pass
				-30	3.80	10.214	0.0040	-2.5 to 2.5	Pass
				-20	3.80	6.437	0.0025	-2.5 to 2.5	Pass
				-10	3.80	2.389	0.0009	-2.5 to 2.5	Pass
				0	3.80	1.488	0.0006	-2.5 to 2.5	Pass
				10	3.80	-4.535	-0.0018	-2.5 to 2.5	Pass
				30	3.80	-4.020	-0.0016	-2.5 to 2.5	Pass
				40	3.80	3.262	0.0013	-2.5 to 2.5	Pass
				50	3.80	-4.406	-0.0017	-2.5 to 2.5	Pass
	2605	25	0	20	3.23	2.103	0.0008	-2.5 to 2.5	Pass
					3.80	4.034	0.0015	-2.5 to 2.5	Pass
					4.37	5.779	0.0022	-2.5 to 2.5	Pass
				-30	3.80	9.670	0.0037	-2.5 to 2.5	Pass
				-20	3.80	4.292	0.0016	-2.5 to 2.5	Pass
				-10	3.80	8.054	0.0031	-2.5 to 2.5	Pass

				0	3.80	3.691	0.0014	-2.5 to 2.5	Pass
				10	3.80	1.316	0.0005	-2.5 to 2.5	Pass
				30	3.80	-2.561	-0.0010	-2.5 to 2.5	Pass
				40	3.80	-0.901	-0.0003	-2.5 to 2.5	Pass
				50	3.80	12.074	0.0046	-2.5 to 2.5	Pass
	2652.5	25	0	20	3.23	3.219	0.0012	-2.5 to 2.5	Pass
					3.80	0.343	0.0001	-2.5 to 2.5	Pass
					4.37	0.443	0.0002	-2.5 to 2.5	Pass
				-30	3.80	8.469	0.0032	-2.5 to 2.5	Pass
				-20	3.80	17.495	0.0066	-2.5 to 2.5	Pass
				-10	3.80	6.309	0.0024	-2.5 to 2.5	Pass
				0	3.80	-9.613	-0.0036	-2.5 to 2.5	Pass
				10	3.80	13.304	0.0050	-2.5 to 2.5	Pass
				30	3.80	-5.121	-0.0019	-2.5 to 2.5	Pass
				40	3.80	0.072	0.0000	-2.5 to 2.5	Pass
				50	3.80	-2.289	-0.0009	-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	3.23	0.229	0.0001	-2.5 to 2.5	Pass
					3.80	0.515	0.0002	-2.5 to 2.5	Pass
					4.37	4.849	0.0019	-2.5 to 2.5	Pass
				-30	3.80	3.476	0.0014	-2.5 to 2.5	Pass
				-20	3.80	0.114	0.0000	-2.5 to 2.5	Pass
				-10	3.80	4.606	0.0018	-2.5 to 2.5	Pass
				0	3.80	-0.844	-0.0003	-2.5 to 2.5	Pass
				10	3.80	1.488	0.0006	-2.5 to 2.5	Pass
				30	3.80	-1.373	-0.0005	-2.5 to 2.5	Pass
				40	3.80	6.294	0.0025	-2.5 to 2.5	Pass
				50	3.80	-0.744	-0.0003	-2.5 to 2.5	Pass
	2605	50	0	20	3.23	2.861	0.0011	-2.5 to 2.5	Pass
					3.80	2.089	0.0008	-2.5 to 2.5	Pass
					4.37	3.290	0.0013	-2.5 to 2.5	Pass
				-30	3.80	-2.675	-0.0010	-2.5 to 2.5	Pass
				-20	3.80	5.264	0.0020	-2.5 to 2.5	Pass
				-10	3.80	8.712	0.0033	-2.5 to 2.5	Pass
				0	3.80	5.279	0.0020	-2.5 to 2.5	Pass
				10	3.80	4.334	0.0017	-2.5 to 2.5	Pass
				30	3.80	-4.406	-0.0017	-2.5 to 2.5	Pass
				40	3.80	-0.587	-0.0002	-2.5 to 2.5	Pass
				50	3.80	5.307	0.0020	-2.5 to 2.5	Pass
	2650	50	0	20	3.23	-2.990	-0.0011	-2.5 to 2.5	Pass
					3.80	-2.475	-0.0009	-2.5 to 2.5	Pass
					4.37	-1.445	-0.0005	-2.5 to 2.5	Pass
				-30	3.80	2.332	0.0009	-2.5 to 2.5	Pass
				-20	3.80	6.666	0.0025	-2.5 to 2.5	Pass
				-10	3.80	3.462	0.0013	-2.5 to 2.5	Pass
				0	3.80	2.546	0.0010	-2.5 to 2.5	Pass
				10	3.80	2.317	0.0009	-2.5 to 2.5	Pass
				30	3.80	8.998	0.0034	-2.5 to 2.5	Pass
				40	3.80	-0.529	-0.0002	-2.5 to 2.5	Pass
				50	3.80	-1.488	-0.0006	-2.5 to 2.5	Pass
16QAM	2560	50	0	20	3.23	2.003	0.0008	-2.5 to 2.5	Pass
					3.80	-6.051	-0.0024	-2.5 to 2.5	Pass
					4.37	3.247	0.0013	-2.5 to 2.5	Pass

				-30	3.80	5.422	0.0021	-2.5 to 2.5	Pass
				-20	3.80	2.060	0.0008	-2.5 to 2.5	Pass
				-10	3.80	1.373	0.0005	-2.5 to 2.5	Pass
				0	3.80	-2.046	-0.0008	-2.5 to 2.5	Pass
				10	3.80	1.087	0.0004	-2.5 to 2.5	Pass
				30	3.80	0.472	0.0002	-2.5 to 2.5	Pass
				40	3.80	2.446	0.0010	-2.5 to 2.5	Pass
				50	3.80	3.576	0.0014	-2.5 to 2.5	Pass
	2605	50	0	20	3.23	-1.302	-0.0005	-2.5 to 2.5	Pass
					3.80	7.811	0.0030	-2.5 to 2.5	Pass
					4.37	5.422	0.0021	-2.5 to 2.5	Pass
				-30	3.80	-2.804	-0.0011	-2.5 to 2.5	Pass
				-20	3.80	-2.017	-0.0008	-2.5 to 2.5	Pass
				-10	3.80	-1.187	-0.0005	-2.5 to 2.5	Pass
				0	3.80	-2.160	-0.0008	-2.5 to 2.5	Pass
				10	3.80	1.016	0.0004	-2.5 to 2.5	Pass
				30	3.80	4.807	0.0018	-2.5 to 2.5	Pass
				40	3.80	1.316	0.0005	-2.5 to 2.5	Pass
				50	3.80	9.871	0.0038	-2.5 to 2.5	Pass
	2650	50	0	20	3.23	5.178	0.0020	-2.5 to 2.5	Pass
					3.80	7.095	0.0027	-2.5 to 2.5	Pass
					4.37	-5.236	-0.0020	-2.5 to 2.5	Pass
				-30	3.80	1.845	0.0007	-2.5 to 2.5	Pass
				-20	3.80	-2.546	-0.0010	-2.5 to 2.5	Pass
				-10	3.80	-1.316	-0.0005	-2.5 to 2.5	Pass
				0	3.80	1.888	0.0007	-2.5 to 2.5	Pass
				10	3.80	0.715	0.0003	-2.5 to 2.5	Pass
				30	3.80	-0.072	0.0000	-2.5 to 2.5	Pass
				40	3.80	1.702	0.0006	-2.5 to 2.5	Pass
				50	3.80	-0.858	-0.0003	-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	3.23	6.566	0.0026	-2.5 to 2.5	Pass
					3.80	2.303	0.0009	-2.5 to 2.5	Pass
					4.37	-1.445	-0.0006	-2.5 to 2.5	Pass
				-30	3.80	8.097	0.0032	-2.5 to 2.5	Pass
				-20	3.80	4.249	0.0017	-2.5 to 2.5	Pass
				-10	3.80	5.507	0.0021	-2.5 to 2.5	Pass
				0	3.80	2.804	0.0011	-2.5 to 2.5	Pass
				10	3.80	0.315	0.0001	-2.5 to 2.5	Pass
				30	3.80	1.974	0.0008	-2.5 to 2.5	Pass
				40	3.80	-1.445	-0.0006	-2.5 to 2.5	Pass
				50	3.80	3.977	0.0016	-2.5 to 2.5	Pass
	2605	75	0	20	3.23	0.916	0.0004	-2.5 to 2.5	Pass
					3.80	-1.717	-0.0007	-2.5 to 2.5	Pass
					4.37	2.575	0.0010	-2.5 to 2.5	Pass
				-30	3.80	3.934	0.0015	-2.5 to 2.5	Pass
				-20	3.80	-0.987	-0.0004	-2.5 to 2.5	Pass
				-10	3.80	0.315	0.0001	-2.5 to 2.5	Pass
				0	3.80	6.623	0.0025	-2.5 to 2.5	Pass
				10	3.80	-0.029	0.0000	-2.5 to 2.5	Pass
				30	3.80	3.490	0.0013	-2.5 to 2.5	Pass
				40	3.80	2.918	0.0011	-2.5 to 2.5	Pass
				50	3.80	4.134	0.0016	-2.5 to 2.5	Pass

	2647.5	75	0	20	3.23	4.921	0.0019	-2.5 to 2.5	Pass
					3.80	2.532	0.0010	-2.5 to 2.5	Pass
					4.37	0.687	0.0003	-2.5 to 2.5	Pass
				-30	3.80	0.343	0.0001	-2.5 to 2.5	Pass
				-20	3.80	-1.502	-0.0006	-2.5 to 2.5	Pass
				-10	3.80	-3.977	-0.0015	-2.5 to 2.5	Pass
				0	3.80	-1.545	-0.0006	-2.5 to 2.5	Pass
				10	3.80	2.761	0.0010	-2.5 to 2.5	Pass
				30	3.80	-2.089	-0.0008	-2.5 to 2.5	Pass
				40	3.80	0.458	0.0002	-2.5 to 2.5	Pass
				50	3.80	-3.791	-0.0014	-2.5 to 2.5	Pass
16QAM	2562.5	75	0	20	3.23	5.307	0.0021	-2.5 to 2.5	Pass
					3.80	4.520	0.0018	-2.5 to 2.5	Pass
					4.37	1.402	0.0005	-2.5 to 2.5	Pass
				-30	3.80	-0.658	-0.0003	-2.5 to 2.5	Pass
				-20	3.80	-1.760	-0.0007	-2.5 to 2.5	Pass
				-10	3.80	1.159	0.0005	-2.5 to 2.5	Pass
				0	3.80	3.161	0.0012	-2.5 to 2.5	Pass
				10	3.80	2.360	0.0009	-2.5 to 2.5	Pass
				30	3.80	1.574	0.0006	-2.5 to 2.5	Pass
				40	3.80	6.008	0.0023	-2.5 to 2.5	Pass
				50	3.80	4.463	0.0017	-2.5 to 2.5	Pass
	2605	75	0	20	3.23	6.781	0.0026	-2.5 to 2.5	Pass
					3.80	5.665	0.0022	-2.5 to 2.5	Pass
					4.37	-3.462	-0.0013	-2.5 to 2.5	Pass
				-30	3.80	6.452	0.0025	-2.5 to 2.5	Pass
				-20	3.80	7.124	0.0027	-2.5 to 2.5	Pass
				-10	3.80	4.563	0.0018	-2.5 to 2.5	Pass
				0	3.80	0.744	0.0003	-2.5 to 2.5	Pass
				10	3.80	-1.044	-0.0004	-2.5 to 2.5	Pass
				30	3.80	1.287	0.0005	-2.5 to 2.5	Pass
				40	3.80	0.644	0.0002	-2.5 to 2.5	Pass
				50	3.80	5.221	0.0020	-2.5 to 2.5	Pass
	2647.5	75	0	20	3.23	-1.173	-0.0004	-2.5 to 2.5	Pass
					3.80	-0.572	-0.0002	-2.5 to 2.5	Pass
					4.37	-0.958	-0.0004	-2.5 to 2.5	Pass
				-30	3.80	-3.533	-0.0013	-2.5 to 2.5	Pass
				-20	3.80	2.189	0.0008	-2.5 to 2.5	Pass
				-10	3.80	-2.589	-0.0010	-2.5 to 2.5	Pass
				0	3.80	0.815	0.0003	-2.5 to 2.5	Pass
				10	3.80	-0.572	-0.0002	-2.5 to 2.5	Pass
				30	3.80	-3.819	-0.0014	-2.5 to 2.5	Pass
				40	3.80	1.130	0.0004	-2.5 to 2.5	Pass
				50	3.80	-3.033	-0.0011	-2.5 to 2.5	Pass

2.1.4 B41_20MHz

Band: 41 / Bandwidth: 20MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2565	100	0	20	3.23	5.937	0.0023	-2.5 to 2.5	Pass
					3.80	2.961	0.0012	-2.5 to 2.5	Pass
					4.37	-0.901	-0.0004	-2.5 to 2.5	Pass
				-30	3.80	-0.587	-0.0002	-2.5 to 2.5	Pass
				-20	3.80	0.830	0.0003	-2.5 to 2.5	Pass
				-10	3.80	-1.016	-0.0004	-2.5 to 2.5	Pass
				0	3.80	5.908	0.0023	-2.5 to 2.5	Pass
				10	3.80	0.358	0.0001	-2.5 to 2.5	Pass

				30	3.80	1.688	0.0007	-2.5 to 2.5	Pass
				40	3.80	6.695	0.0026	-2.5 to 2.5	Pass
				50	3.80	-0.272	-0.0001	-2.5 to 2.5	Pass
	2605	100	0	20	3.23	0.572	0.0002	-2.5 to 2.5	Pass
					3.80	3.448	0.0013	-2.5 to 2.5	Pass
					4.37	2.732	0.0010	-2.5 to 2.5	Pass
				-30	3.80	-0.029	0.0000	-2.5 to 2.5	Pass
				-20	3.80	0.200	0.0001	-2.5 to 2.5	Pass
				-10	3.80	-0.429	-0.0002	-2.5 to 2.5	Pass
				0	3.80	6.580	0.0025	-2.5 to 2.5	Pass
				10	3.80	-1.488	-0.0006	-2.5 to 2.5	Pass
				30	3.80	6.537	0.0025	-2.5 to 2.5	Pass
				40	3.80	2.489	0.0010	-2.5 to 2.5	Pass
				50	3.80	2.947	0.0011	-2.5 to 2.5	Pass
	2645	100	0	20	3.23	4.749	0.0018	-2.5 to 2.5	Pass
					3.80	-2.532	-0.0010	-2.5 to 2.5	Pass
					4.37	-0.587	-0.0002	-2.5 to 2.5	Pass
				-30	3.80	1.316	0.0005	-2.5 to 2.5	Pass
				-20	3.80	-3.161	-0.0012	-2.5 to 2.5	Pass
				-10	3.80	5.865	0.0022	-2.5 to 2.5	Pass
				0	3.80	1.173	0.0004	-2.5 to 2.5	Pass
				10	3.80	1.101	0.0004	-2.5 to 2.5	Pass
				30	3.80	2.203	0.0008	-2.5 to 2.5	Pass
				40	3.80	-1.044	-0.0004	-2.5 to 2.5	Pass
				50	3.80	1.802	0.0007	-2.5 to 2.5	Pass
16QAM	2565	100	0	20	3.23	1.931	0.0008	-2.5 to 2.5	Pass
					3.80	-3.591	-0.0014	-2.5 to 2.5	Pass
					4.37	3.891	0.0015	-2.5 to 2.5	Pass
				-30	3.80	-1.144	-0.0004	-2.5 to 2.5	Pass
				-20	3.80	5.450	0.0021	-2.5 to 2.5	Pass
				-10	3.80	9.456	0.0037	-2.5 to 2.5	Pass
				0	3.80	2.217	0.0009	-2.5 to 2.5	Pass
				10	3.80	5.665	0.0022	-2.5 to 2.5	Pass
				30	3.80	6.366	0.0025	-2.5 to 2.5	Pass
				40	3.80	5.579	0.0022	-2.5 to 2.5	Pass
				50	3.80	-1.645	-0.0006	-2.5 to 2.5	Pass
	2605	100	0	20	3.23	5.493	0.0021	-2.5 to 2.5	Pass
					3.80	-4.120	-0.0016	-2.5 to 2.5	Pass
					4.37	3.548	0.0014	-2.5 to 2.5	Pass
				-30	3.80	1.302	0.0005	-2.5 to 2.5	Pass
				-20	3.80	3.004	0.0012	-2.5 to 2.5	Pass
				-10	3.80	1.903	0.0007	-2.5 to 2.5	Pass
				0	3.80	1.259	0.0005	-2.5 to 2.5	Pass
				10	3.80	5.622	0.0022	-2.5 to 2.5	Pass
				30	3.80	4.864	0.0019	-2.5 to 2.5	Pass
				40	3.80	0.730	0.0003	-2.5 to 2.5	Pass
				50	3.80	-1.631	-0.0006	-2.5 to 2.5	Pass
	2645	100	0	20	3.23	0.172	0.0001	-2.5 to 2.5	Pass
					3.80	1.802	0.0007	-2.5 to 2.5	Pass
					4.37	0.029	0.0000	-2.5 to 2.5	Pass
				-30	3.80	3.061	0.0012	-2.5 to 2.5	Pass
				-20	3.80	7.081	0.0027	-2.5 to 2.5	Pass
				-10	3.80	-3.090	-0.0012	-2.5 to 2.5	Pass
				0	3.80	0.587	0.0002	-2.5 to 2.5	Pass
				10	3.80	3.562	0.0013	-2.5 to 2.5	Pass
				30	3.80	2.232	0.0008	-2.5 to 2.5	Pass
				40	3.80	6.309	0.0024	-2.5 to 2.5	Pass
				50	3.80	3.676	0.0014	-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

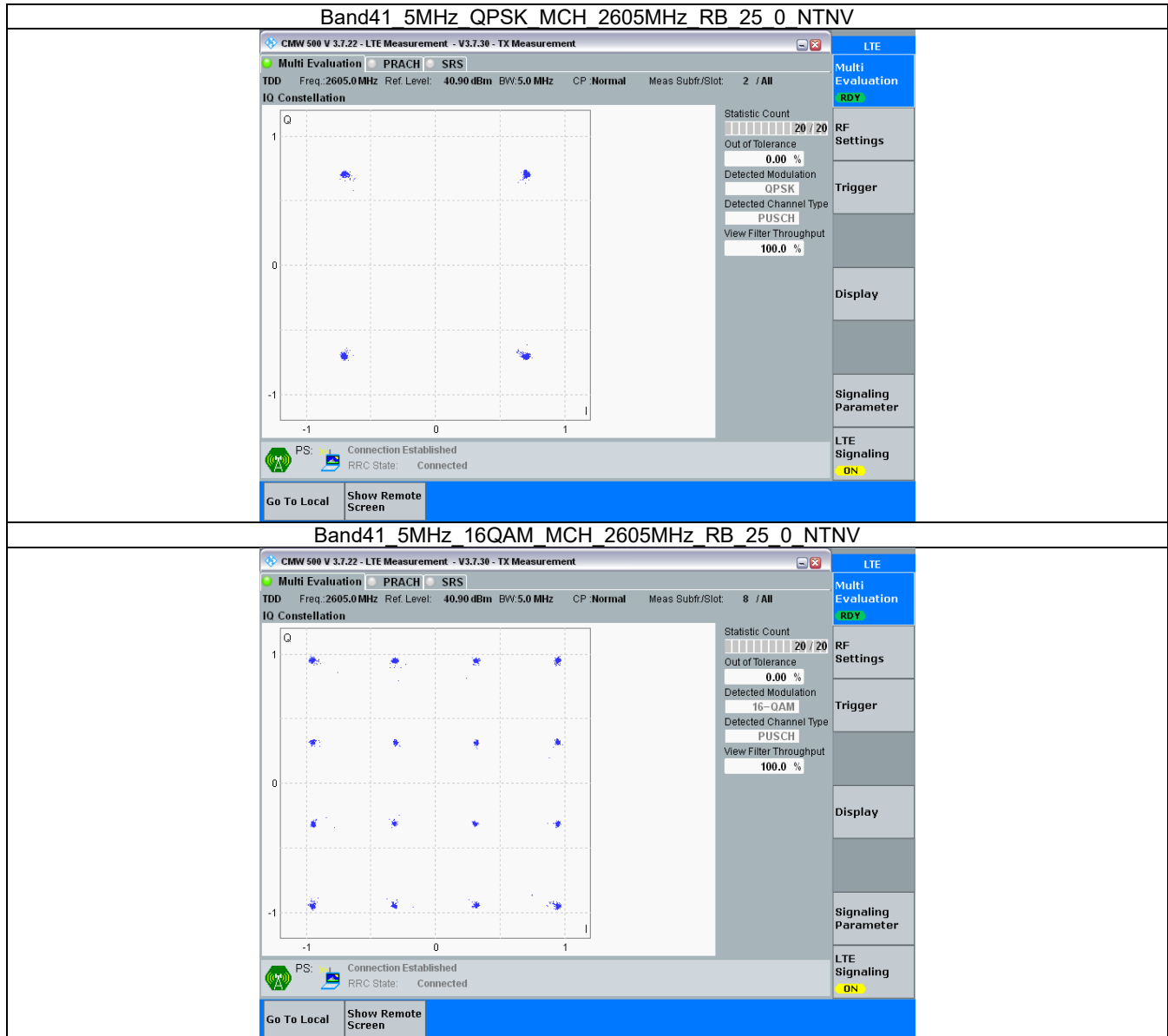
Band: 41 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2605	75	0	Refer To Test Graph		Pass
16QAM	2605	75	0	Refer To Test Graph		Pass

3.1.4 B41_20MHz

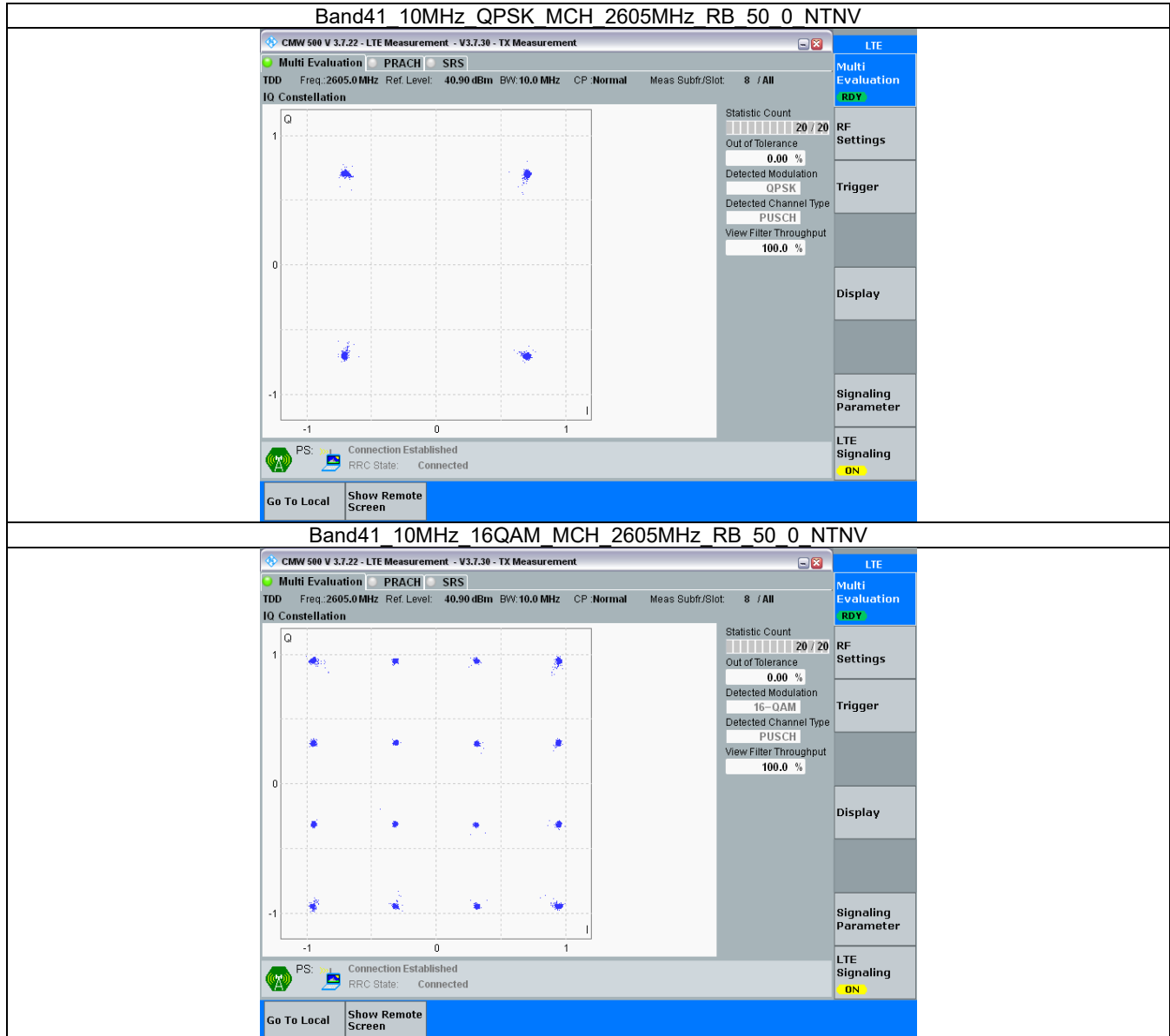
Band: 41 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2605	100	0	Refer To Test Graph		Pass
16QAM	2605	100	0	Refer To Test Graph		Pass

3.2 Test Graph

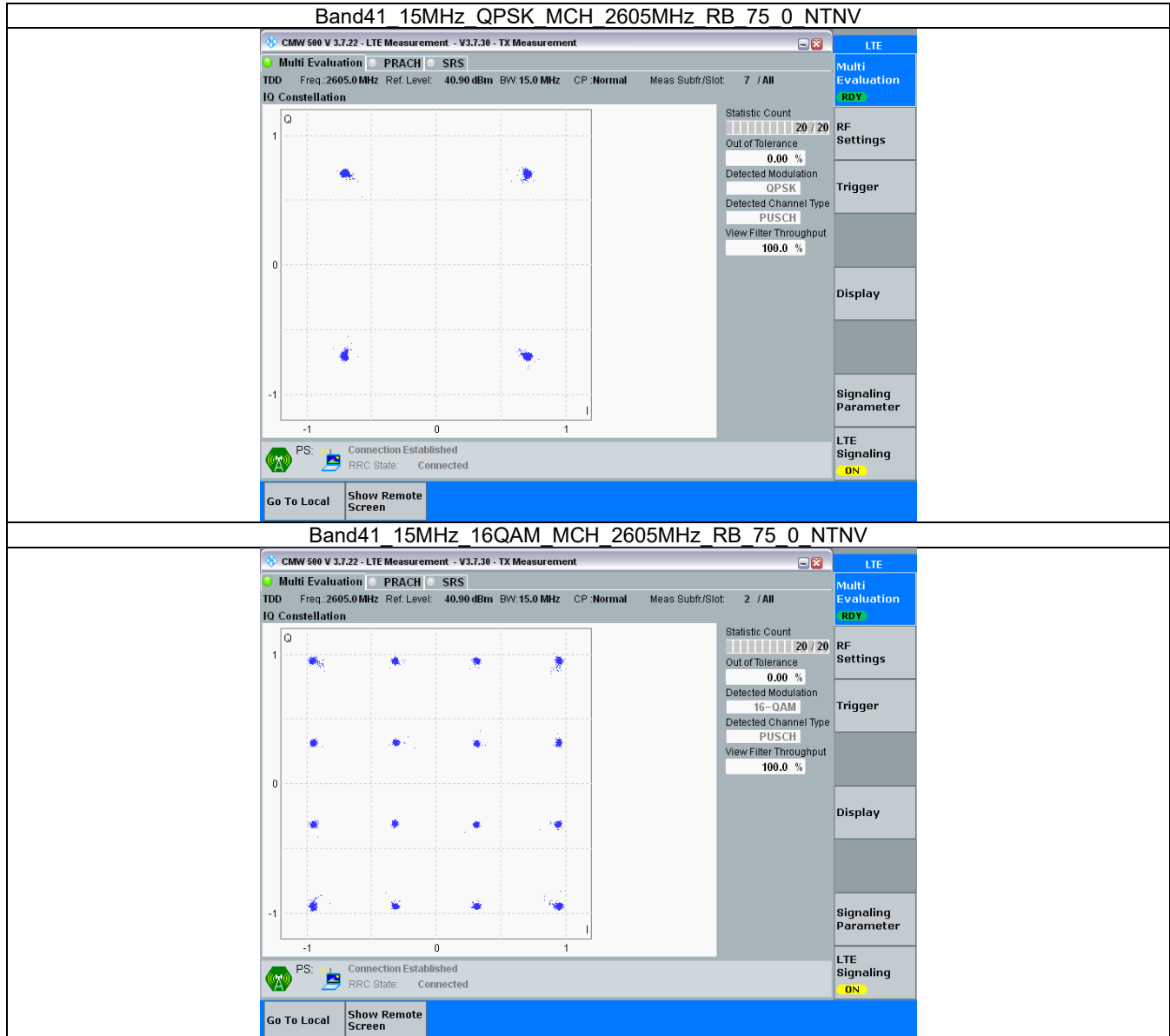
3.2.1 B41_5MHz



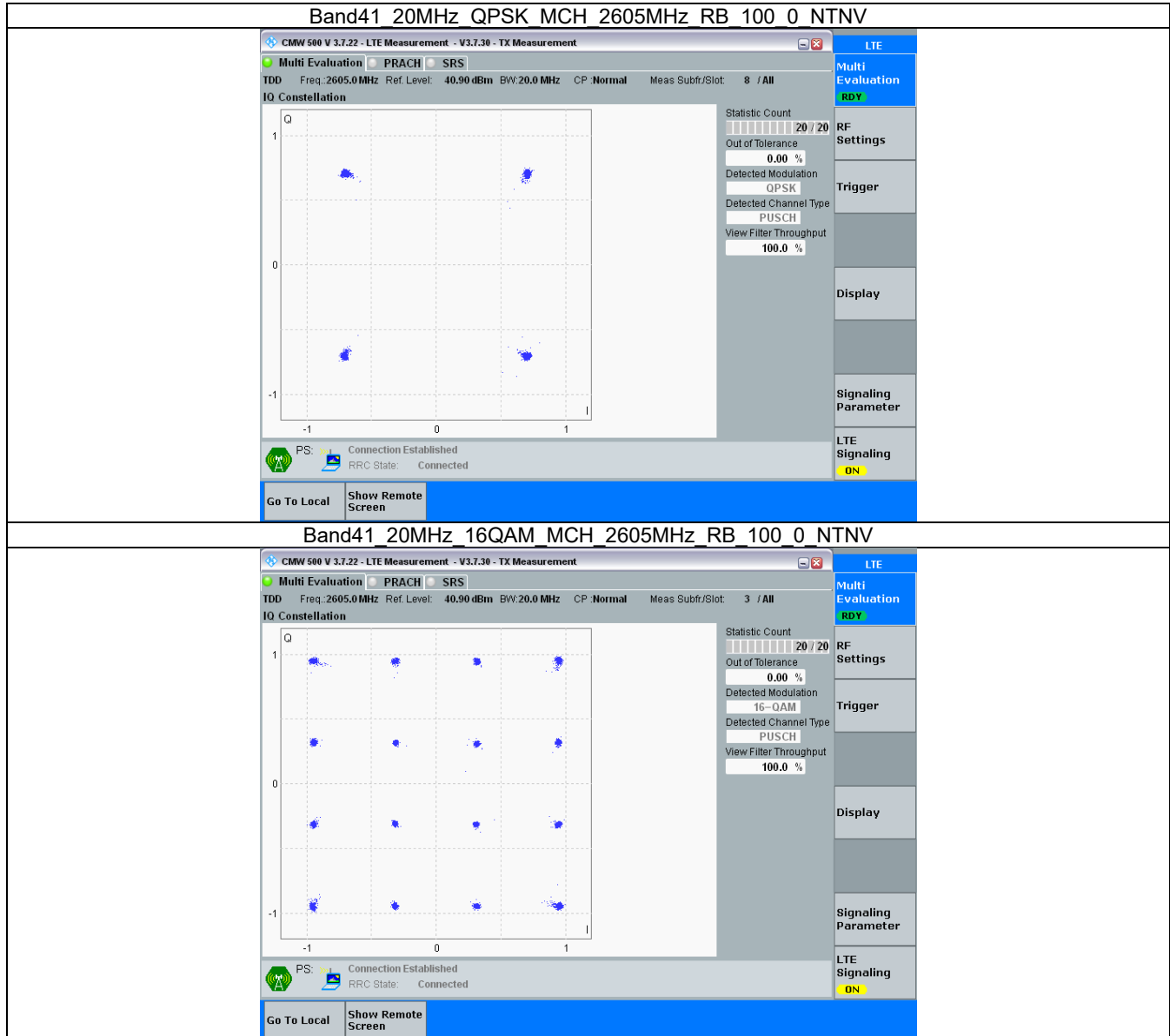
3.2.2 B41_10MHz



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	4.565	/	Pass
		2605	25	0	4.562	/	Pass
		2652.5	25	0	4.562	/	Pass
	16QAM	2557.5	25	0	4.565	/	Pass
		2605	25	0	4.544	/	Pass
		2652.5	25	0	4.553	/	Pass
10	QPSK	2560	50	0	9.062	/	Pass
		2605	50	0	9.060	/	Pass
		2650	50	0	9.076	/	Pass
	16QAM	2560	50	0	9.068	/	Pass
		2605	50	0	9.075	/	Pass
		2650	50	0	9.077	/	Pass
15	QPSK	2562.5	75	0	13.539	/	Pass
		2605	75	0	13.573	/	Pass
		2647.5	75	0	13.636	/	Pass
	16QAM	2562.5	75	0	13.618	/	Pass
		2605	75	0	13.613	/	Pass
		2647.5	75	0	13.588	/	Pass
20	QPSK	2565	100	0	18.131	/	Pass
		2605	100	0	18.139	/	Pass
		2645	100	0	18.087	/	Pass
	16QAM	2565	100	0	18.092	/	Pass
		2605	100	0	18.082	/	Pass
		2645	100	0	18.129	/	Pass

4.1.2 Band41_XDB

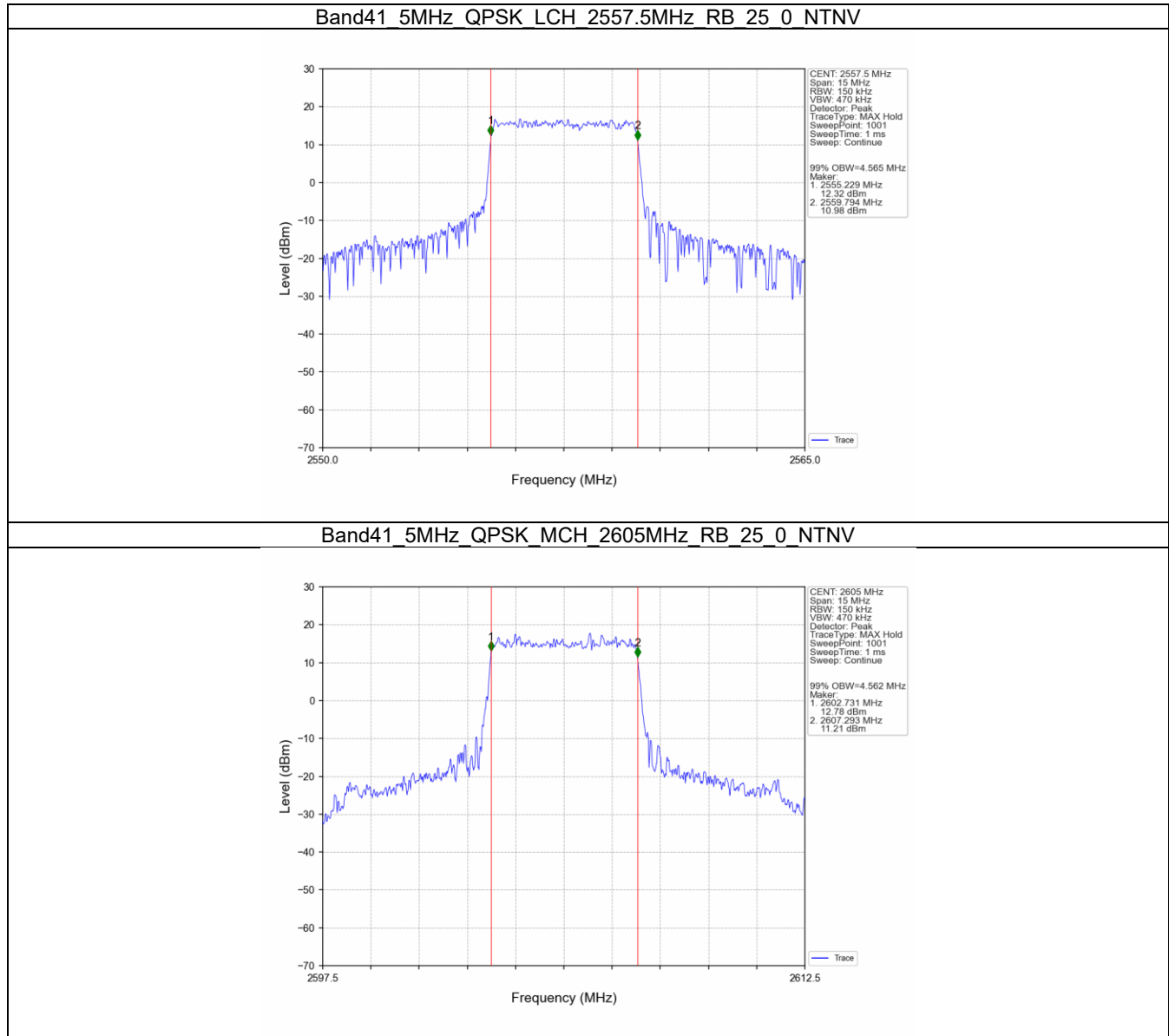
Band: 41 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2557.5	25	0	5.784	/	Pass
		2605	25	0	5.075	/	Pass
		2652.5	25	0	5.527	/	Pass
	16QAM	2557.5	25	0	5.065	/	Pass
		2605	25	0	5.039	/	Pass
		2652.5	25	0	5.221	/	Pass
10	QPSK	2560	50	0	10.242	/	Pass
		2605	50	0	11.682	/	Pass
		2650	50	0	10.774	/	Pass
	16QAM	2560	50	0	11.779	/	Pass
		2605	50	0	11.334	/	Pass
		2650	50	0	10.104	/	Pass
15	QPSK	2562.5	75	0	15.548	/	Pass
		2605	75	0	15.670	/	Pass
		2647.5	75	0	17.504	/	Pass
	16QAM	2562.5	75	0	16.652	/	Pass
		2605	75	0	17.475	/	Pass
		2647.5	75	0	18.528	/	Pass
20	QPSK	2565	100	0	20.244	/	Pass



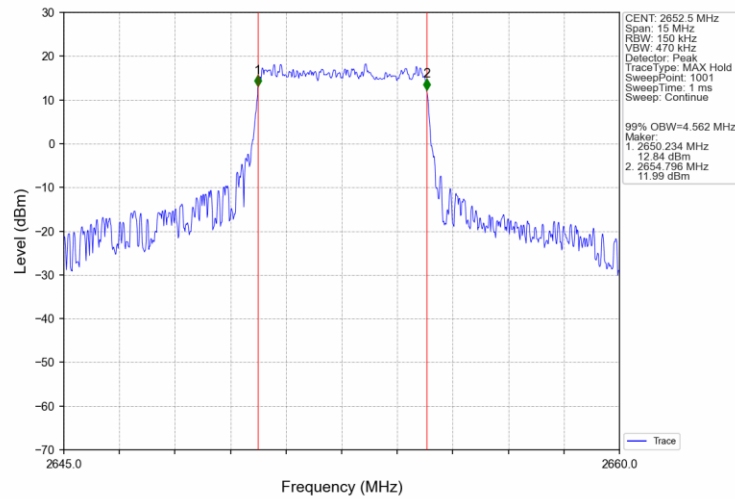
		2605	100	0	21.259	/	Pass
		2645	100	0	20.721	/	Pass
	16QAM	2565	100	0	20.380	/	Pass
		2605	100	0	20.039	/	Pass
		2645	100	0	23.148	/	Pass

4.2 Test Graph

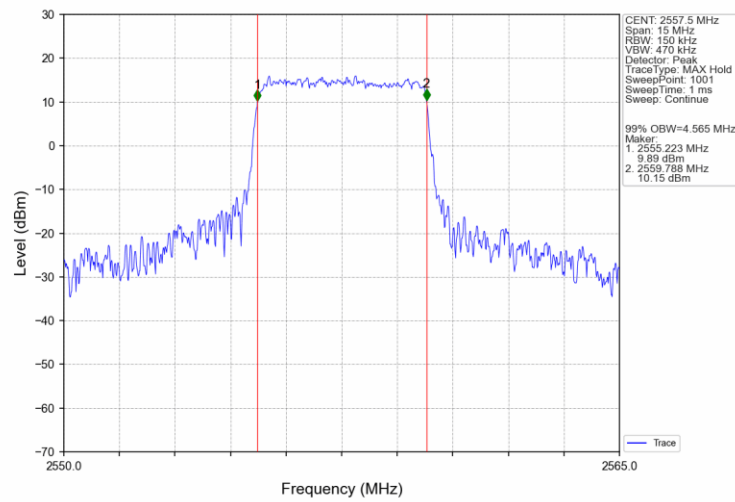
4.2.1 Band41_OBW



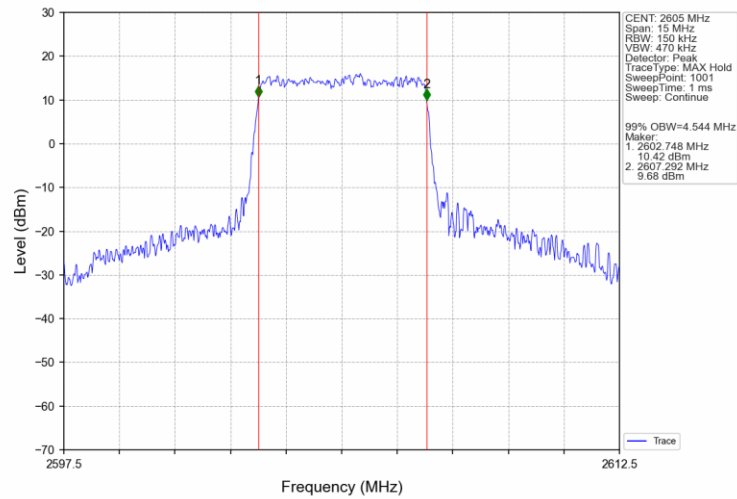
Band41 5MHz QPSK HCH 2652.5MHz RB 25 0 NTNV



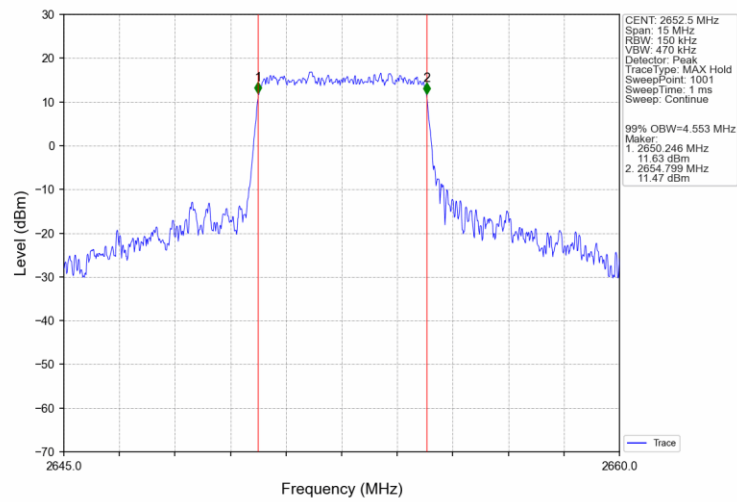
Band41 5MHz 16QAM LCH 2557.5MHz RB 25 0 NTNV



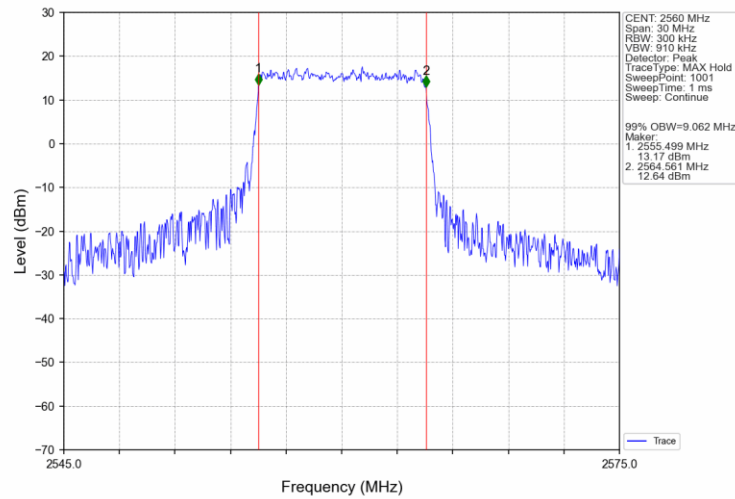
Band41 5MHz 16QAM MCH 2605MHz RB 25 0 NTNV



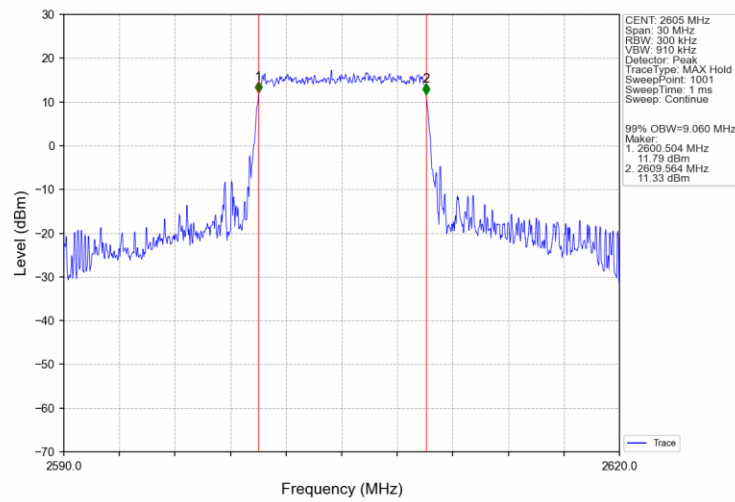
Band41 5MHz 16QAM HCH 2652.5MHz RB 25 0 NTNV



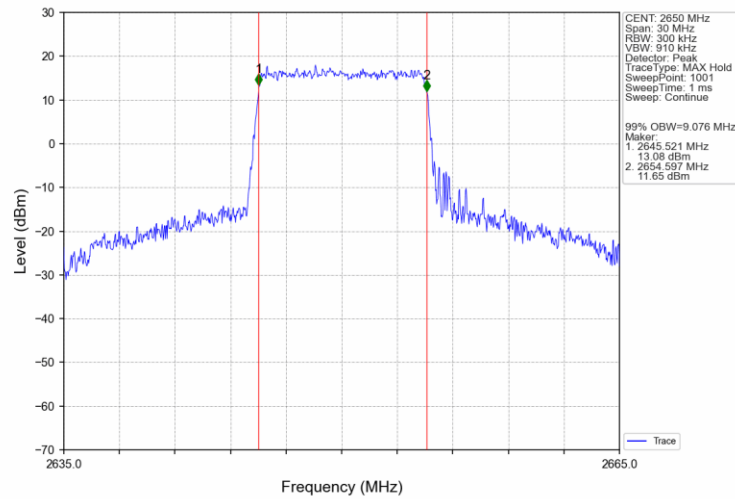
Band41 10MHz QPSK LCH 2560MHz RB 50 0 NTV



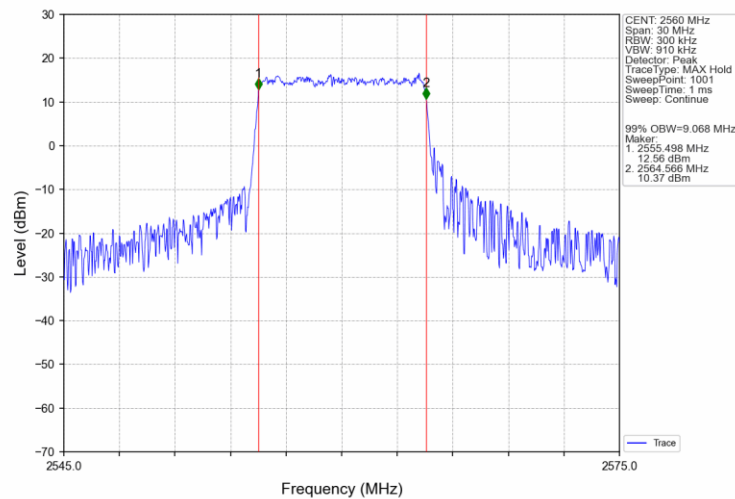
Band41 10MHz QPSK MCH 2605MHz RB 50 0 NTV



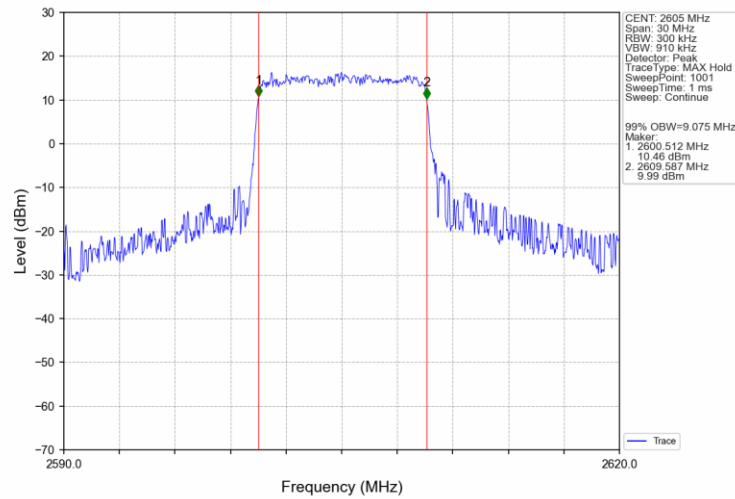
Band41 10MHz QPSK HCH 2650MHz RB 50 0 NTV



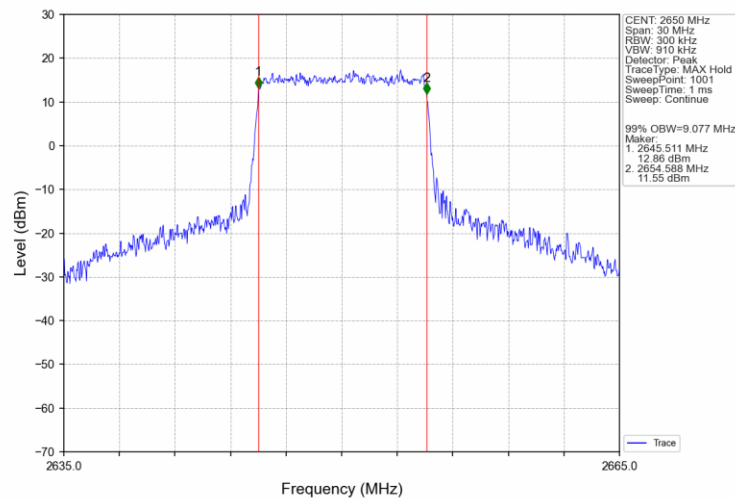
Band41 10MHz 16QAM LCH 2560MHz RB 50 0 NTV



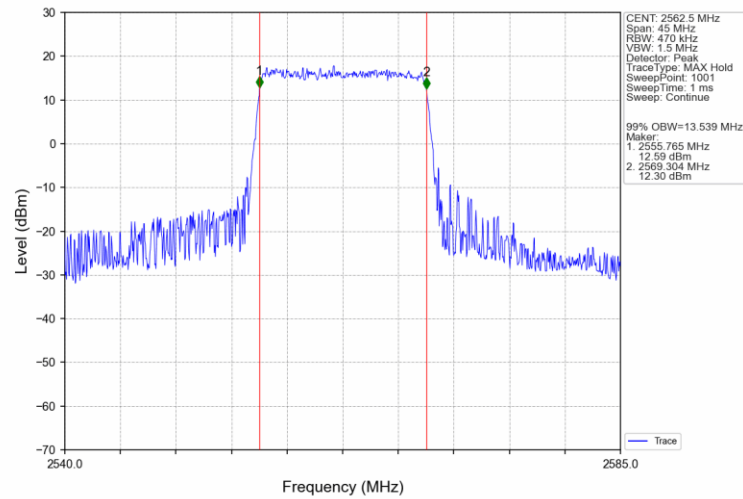
Band41 10MHz 16QAM MCH 2605MHz RB 50 0 NTNV



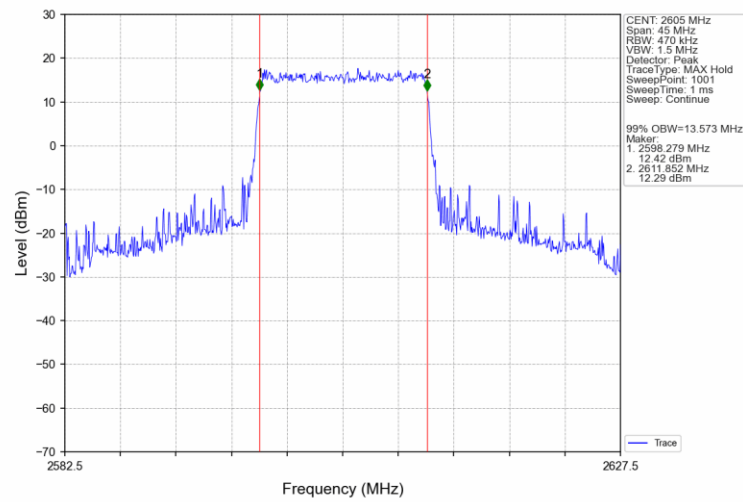
Band41 10MHz 16QAM HCH 2650MHz RB 50 0 NTNV



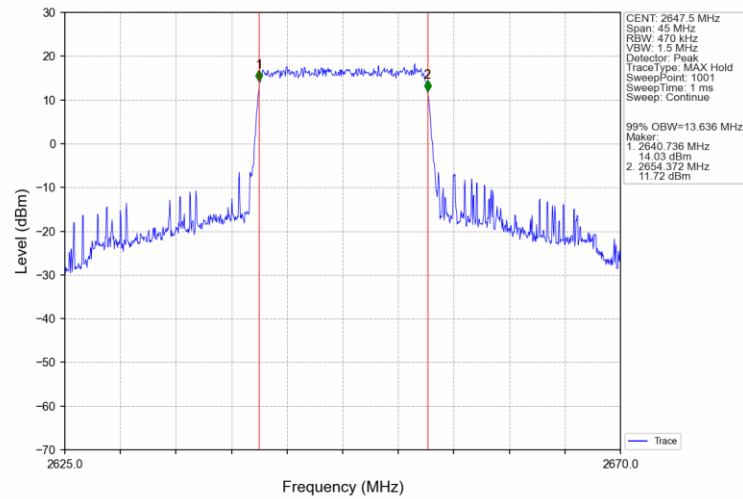
Band41 15MHz QPSK LCH 2562.5MHz RB 75 0 NTN



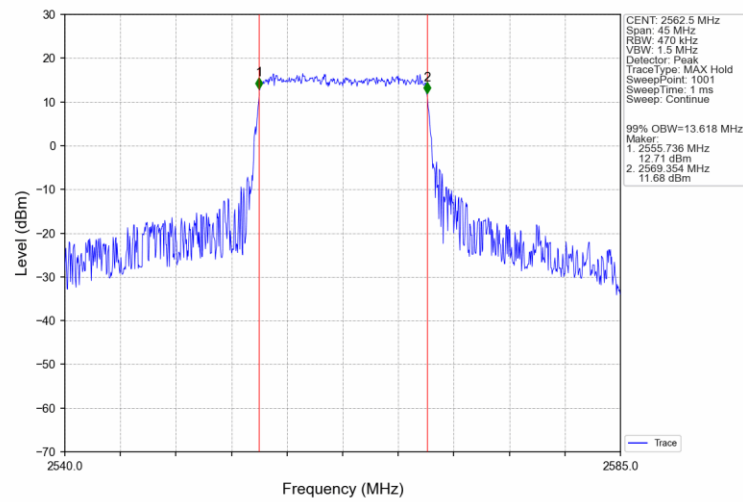
Band41 15MHz QPSK MCH 2605MHz RB 75 0 NTN



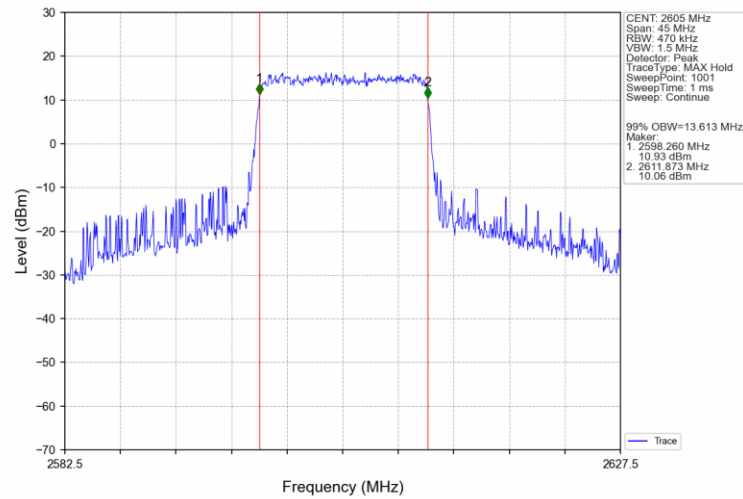
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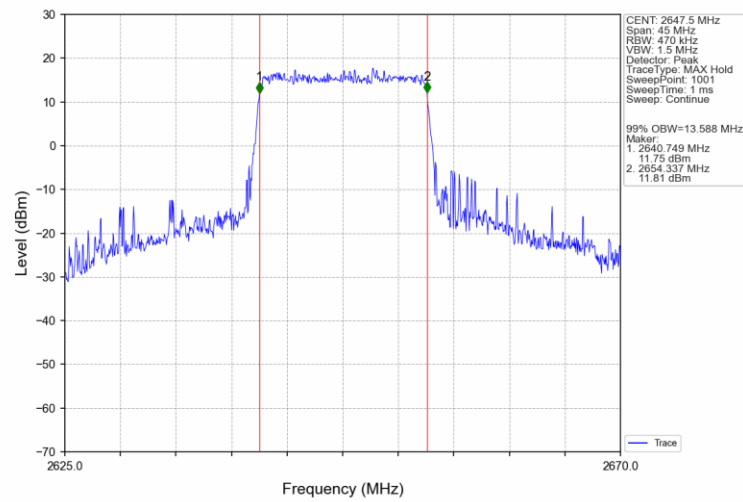
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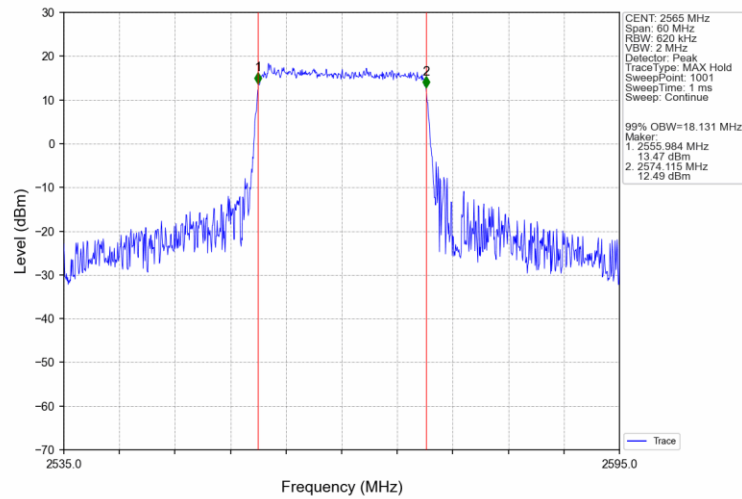
Band41 15MHz 16QAM MCH 2605MHz RB 75 0 NTN



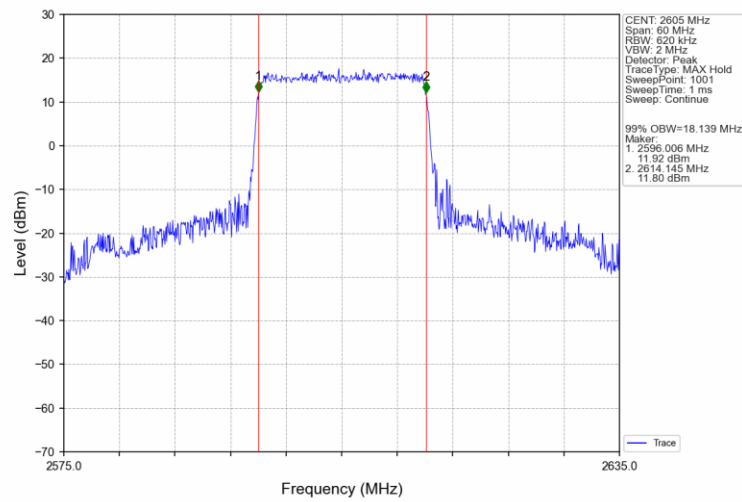
Band41 15MHz 16QAM HCH 2647.5MHz RB 75 0 NTN



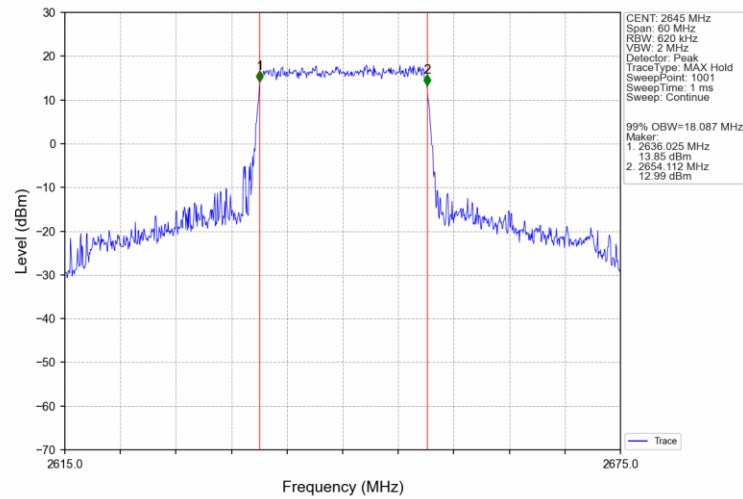
Band41 20MHz QPSK LCH 2565MHz RB 100 0 NTNV



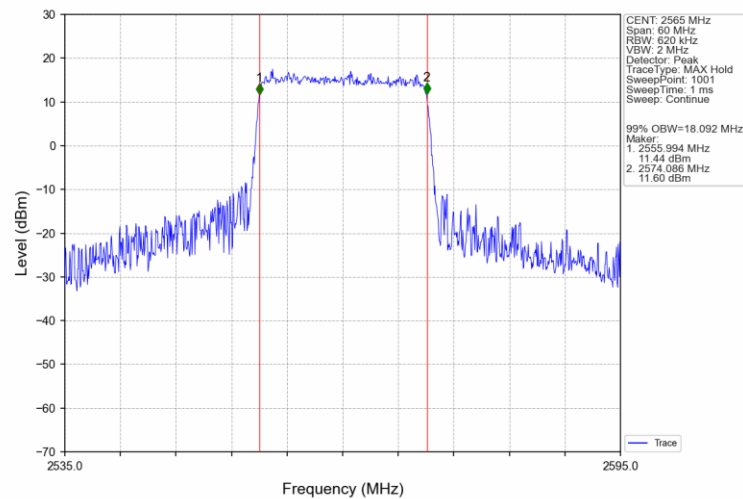
Band41 20MHz QPSK MCH 2605MHz RB 100 0 NTNV



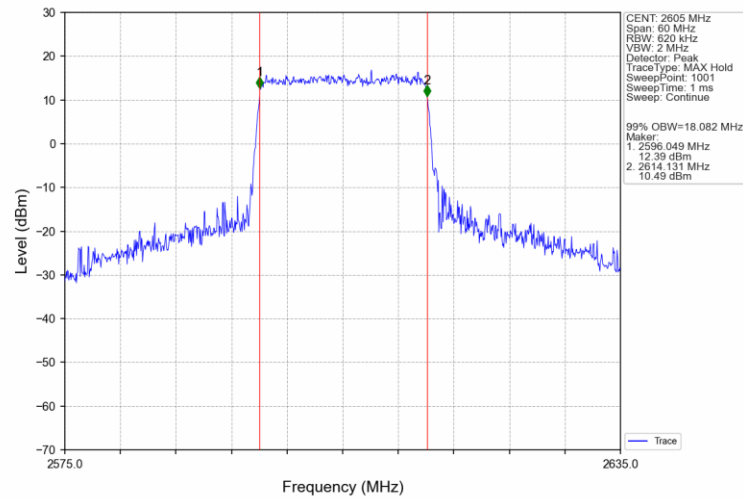
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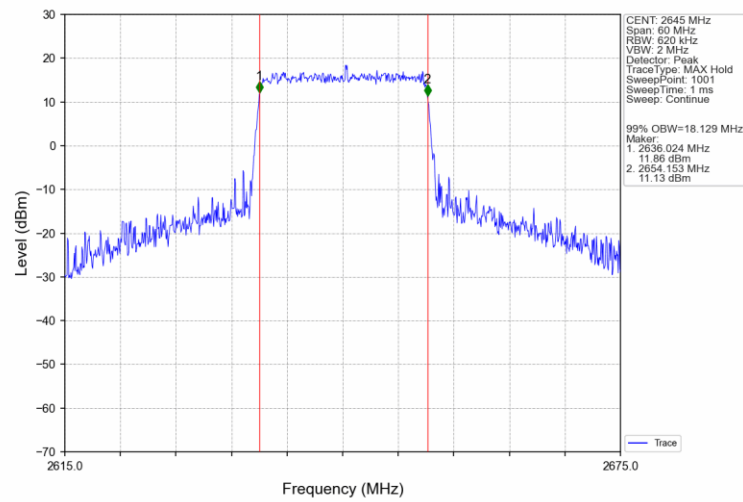
Band41 20MHz 16QAM LCH 2565MHz RB 100 0 NTN



Band41_20MHz_16QAM_MCH_2605MHz_RB_100_0_NTNV

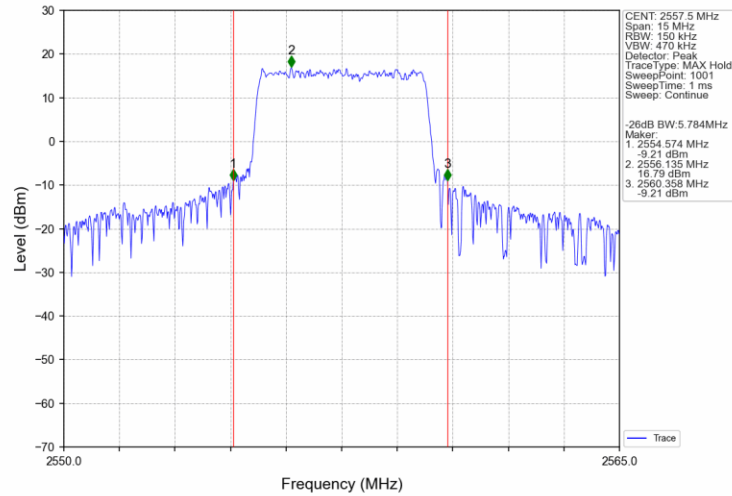


Band41_20MHz_16QAM_HCH_2645MHz_RB_100_0_NTNV

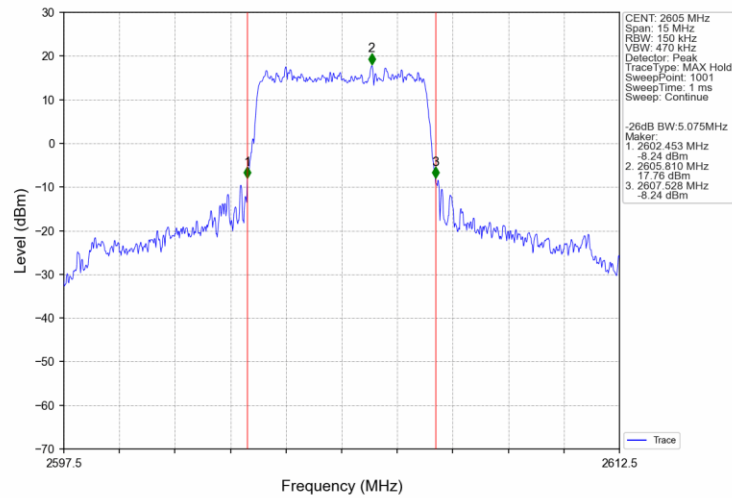


4.2.2 Band41_XDB

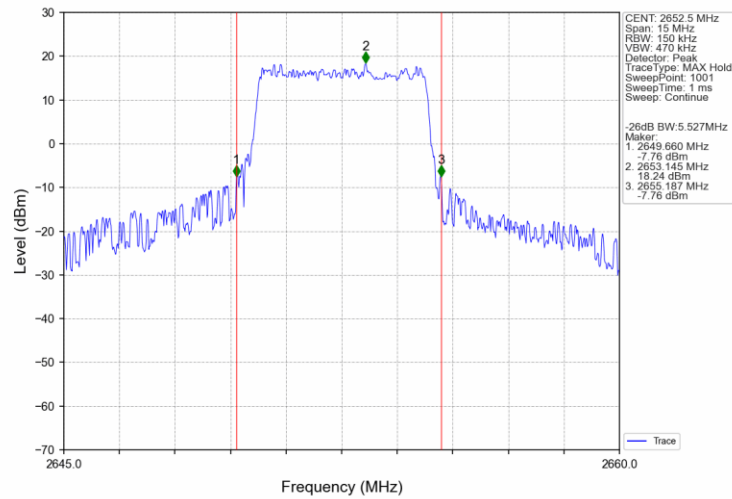
Band41_5MHz_QPSK_LCH_2557.5MHz_RB_25_0_NTNV



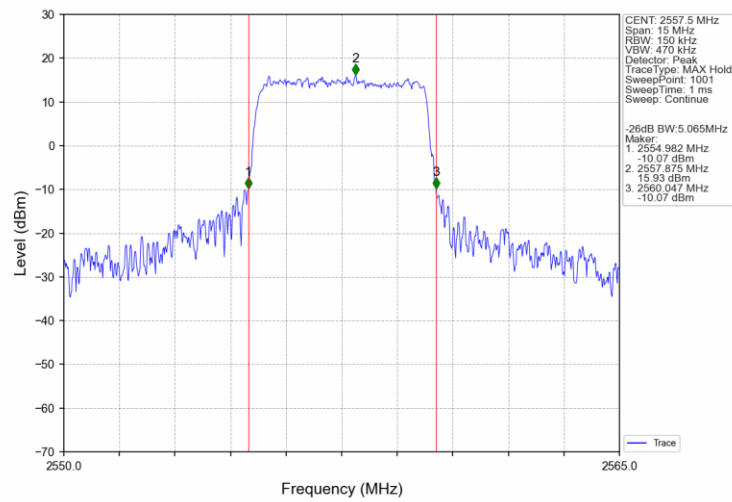
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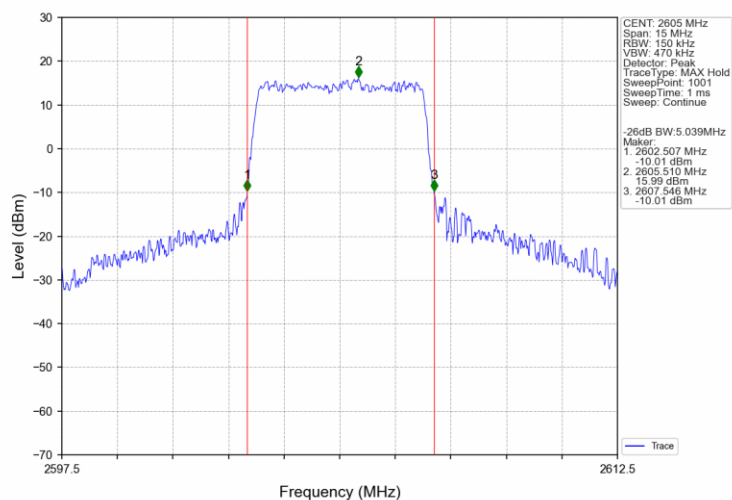
Band41 5MHz QPSK HCH 2652.5MHz RB 25 0 NTN



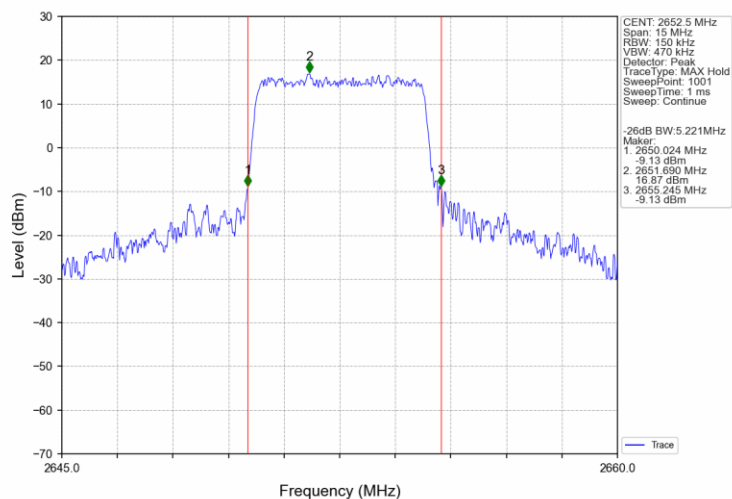
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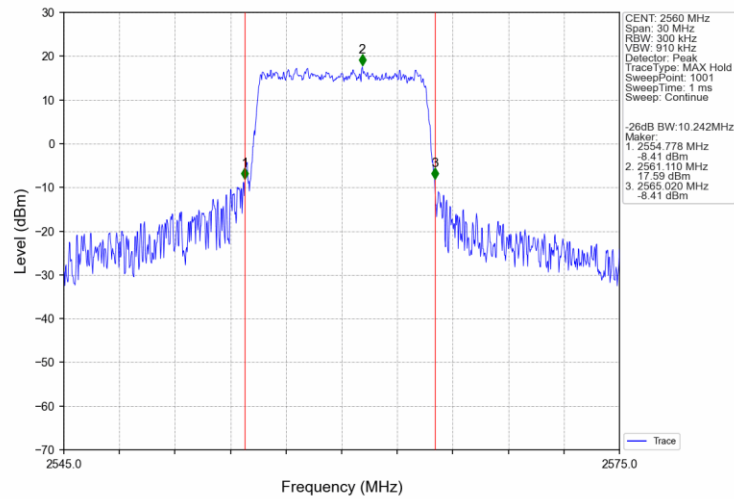
Band41_5MHz_16QAM_MCH_2605MHz_RB_25_0_NTNV



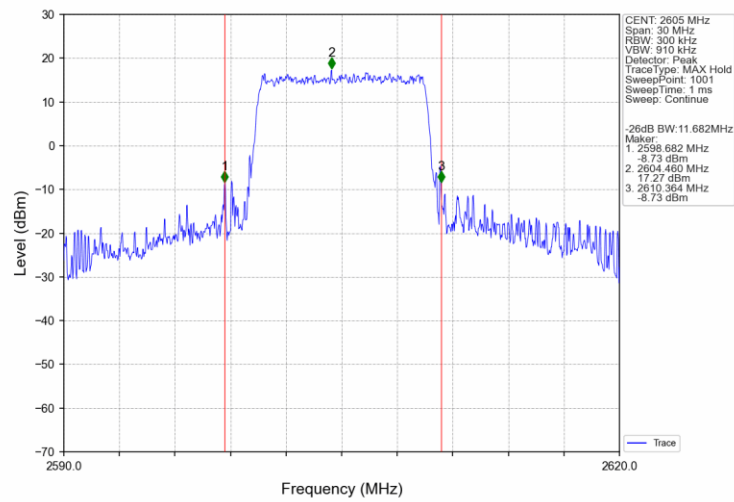
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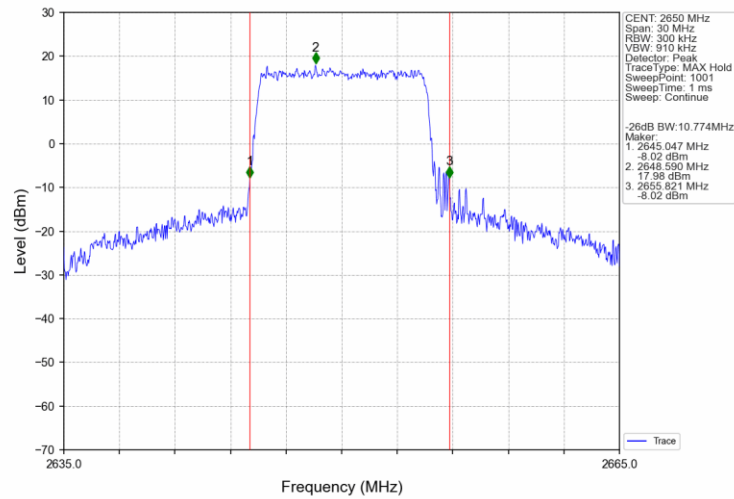
Band41 10MHz QPSK LCH 2560MHz RB 50 0 NTV



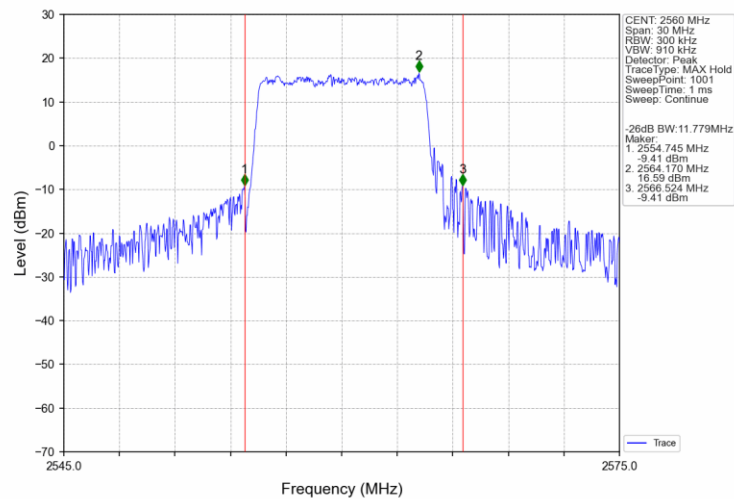
Band41 10MHz QPSK MCH 2605MHz RB 50 0 NTV



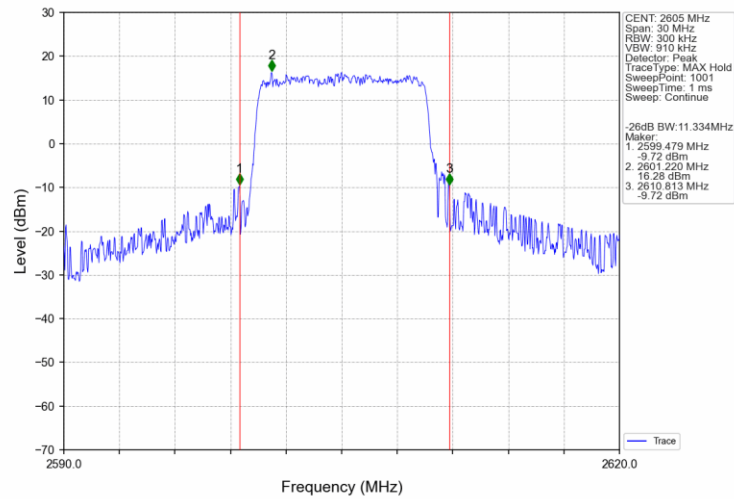
Band41 10MHz QPSK HCH 2650MHz RB 50 0 NTV



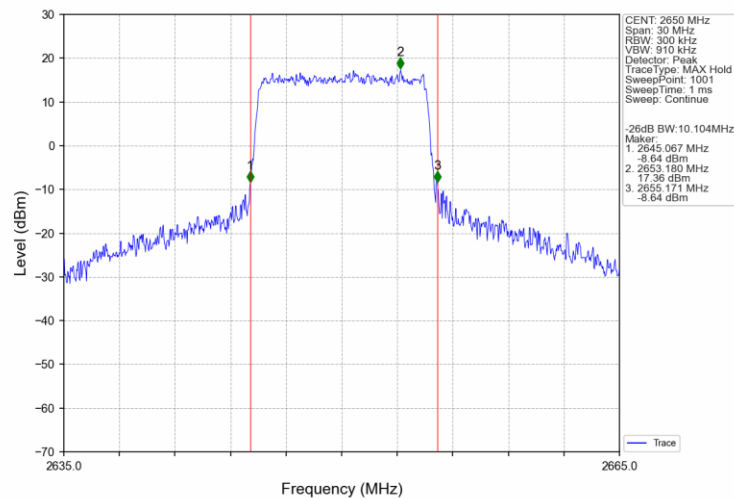
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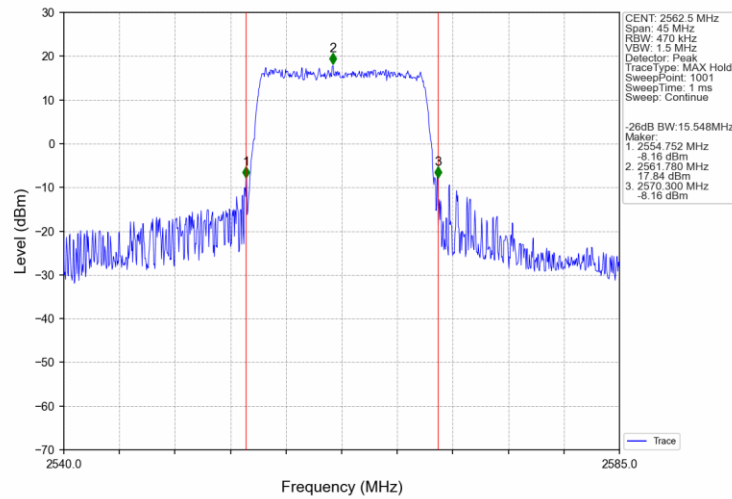
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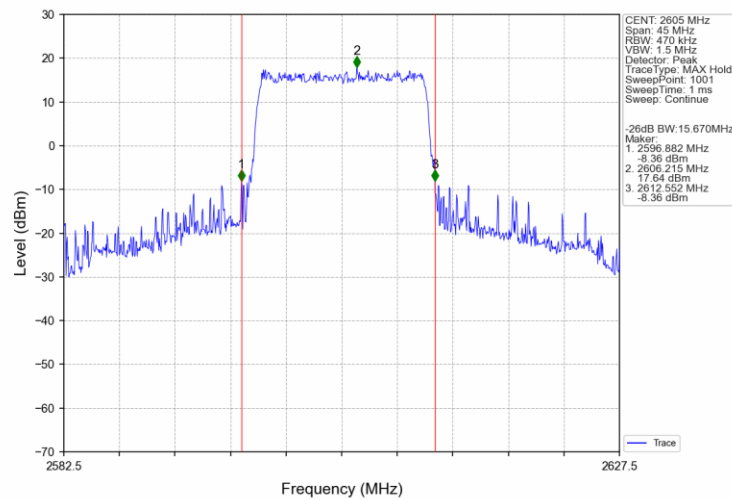
Band41 10MHz 16QAM HCH 2650MHz RB 50 0 NTN



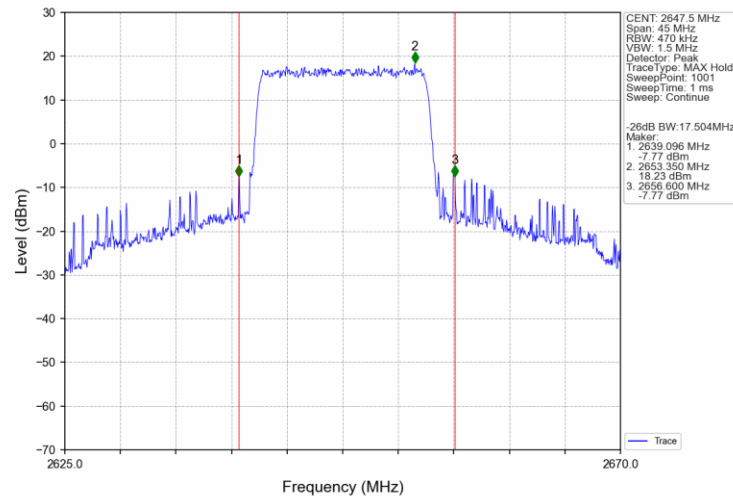
Band41 15MHz QPSK LCH 2562.5MHz RB 75 0 NTN



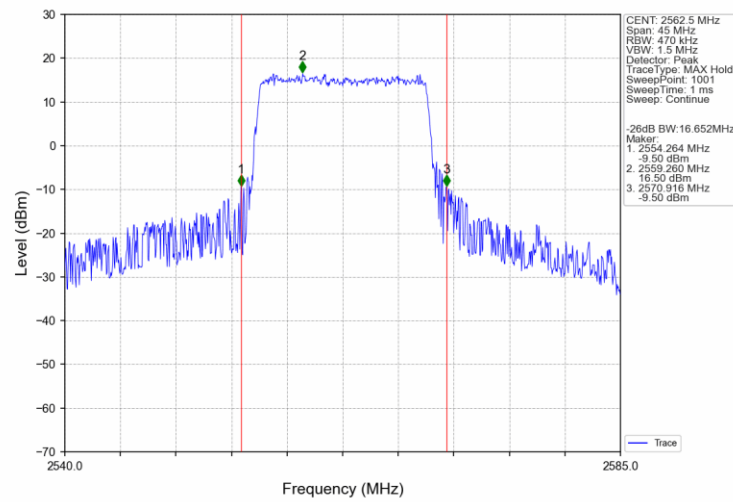
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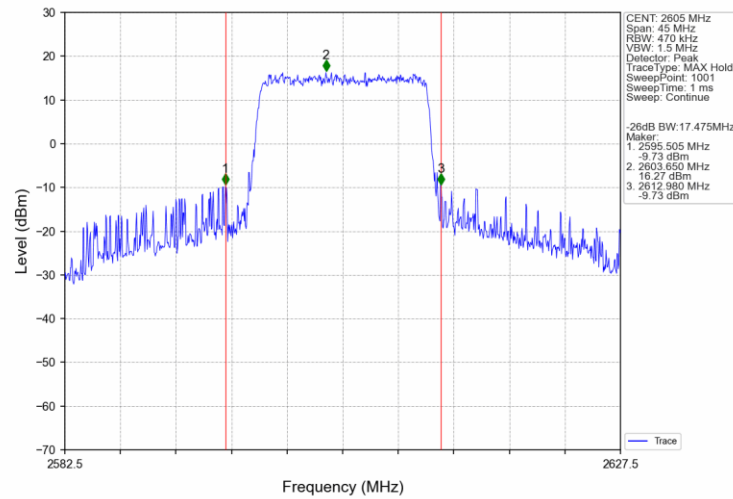
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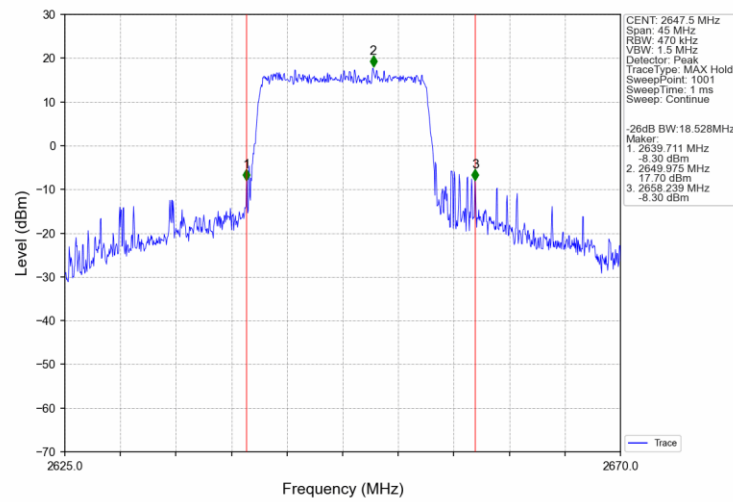
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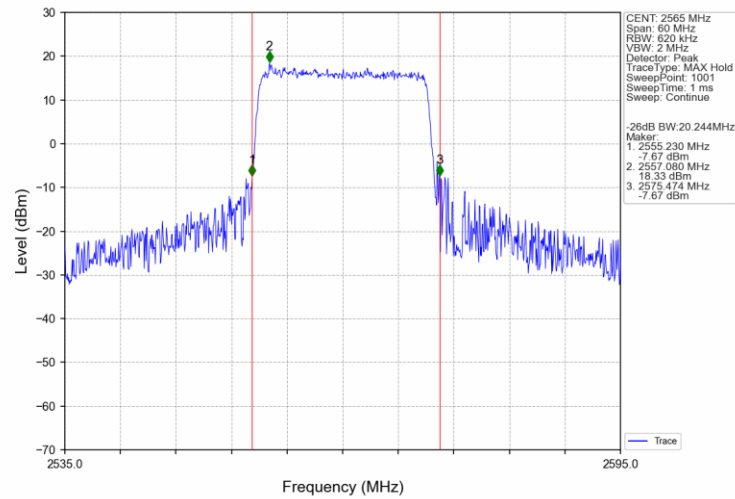
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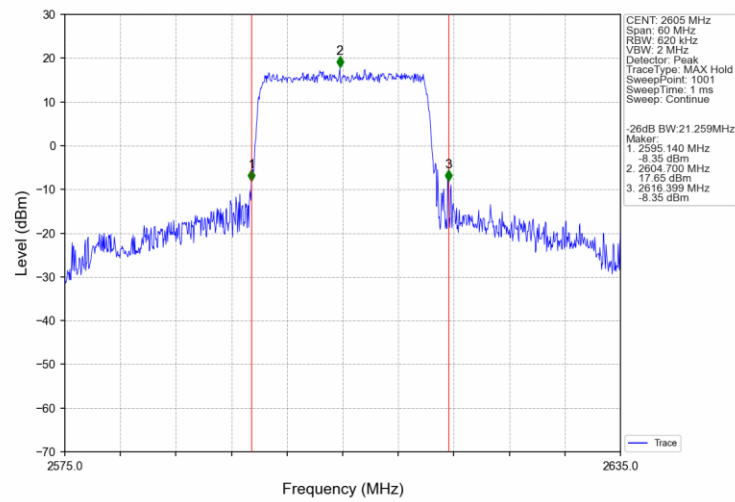
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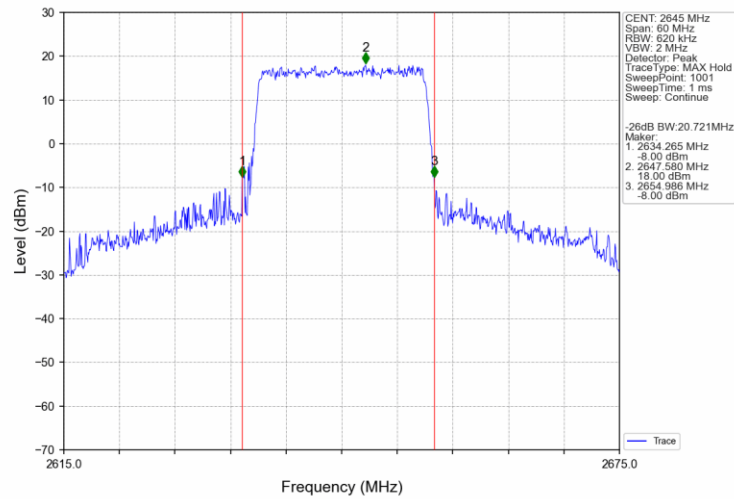
Band41 20MHz QPSK LCH 2565MHz RB 100 0 NTNV



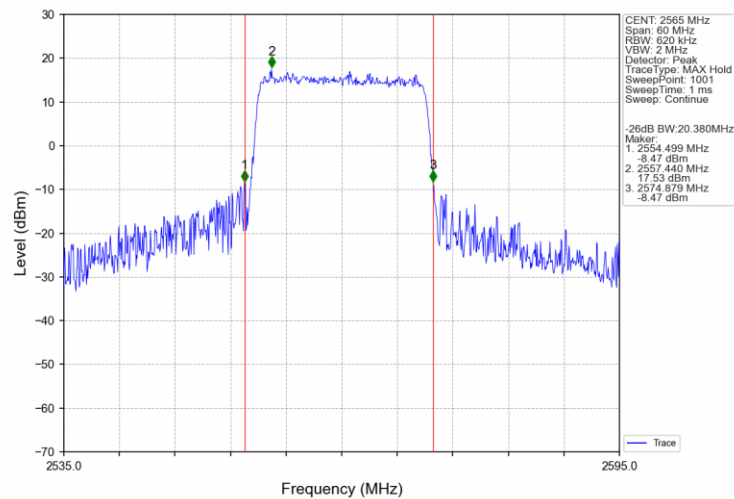
Band41 20MHz QPSK MCH 2605MHz RB 100 0 NTNV



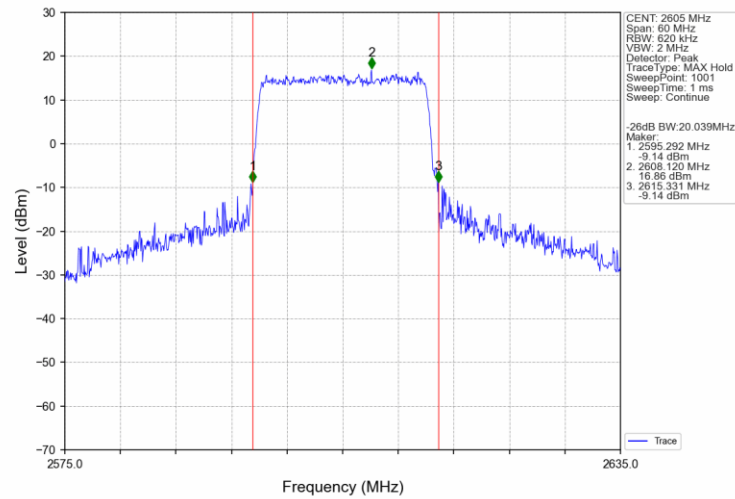
Band41 20MHz QPSK HCH 2645MHz RB 100 0 NTN



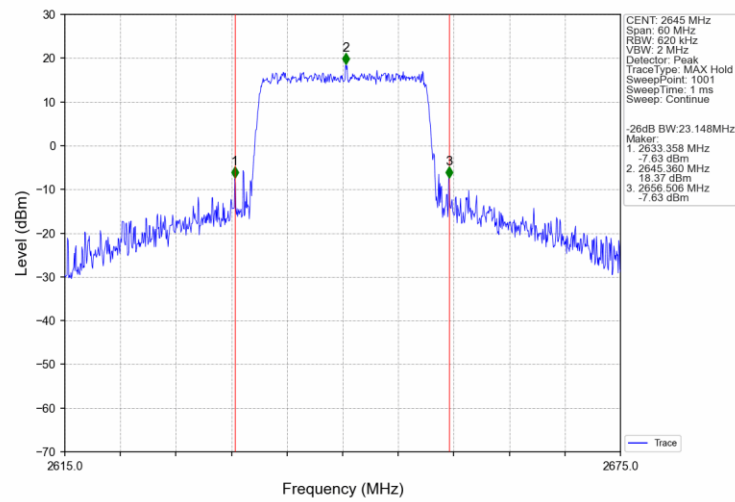
Band41 20MHz 16QAM LCH 2565MHz RB 100 0 NTN



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	7.64	<=13	Pass
	2605	25	0	7.23	<=13	Pass
	2652.5	25	0	7.18	<=13	Pass
16QAM	2557.5	25	0	8.35	<=13	Pass
	2605	25	0	7.94	<=13	Pass
	2652.5	25	0	7.78	<=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	7.64	<=13	Pass
	2605	50	0	7.10	<=13	Pass
	2650	50	0	7.34	<=13	Pass
16QAM	2560	50	0	8.36	<=13	Pass
	2605	50	0	7.96	<=13	Pass
	2650	50	0	7.85	<=13	Pass

5.1.3 B41_15MHz

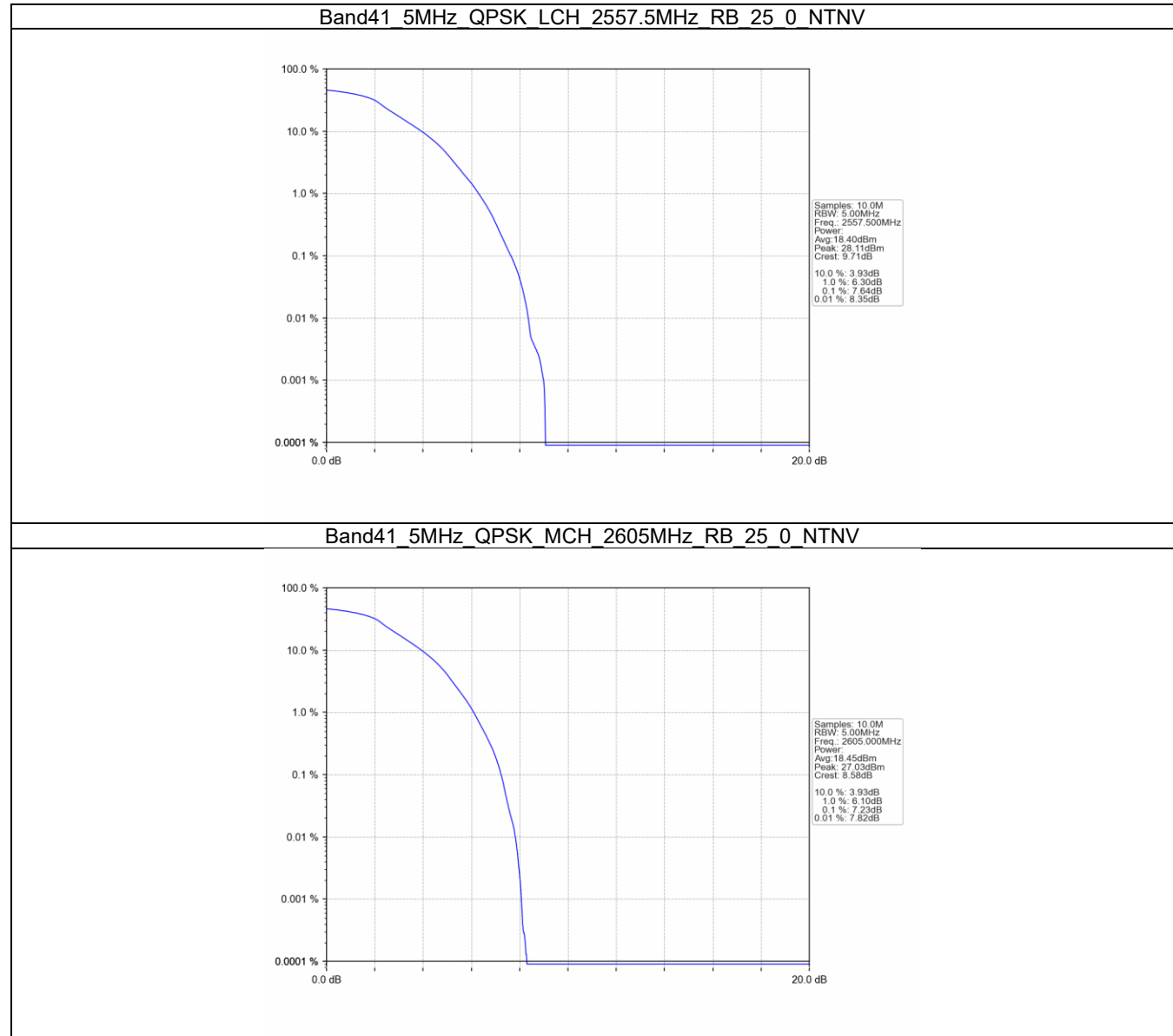
Band: 41 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2562.5	75	0	7.24	<=13	Pass
	2605	75	0	7.22	<=13	Pass
	2647.5	75	0	7.16	<=13	Pass
16QAM	2562.5	75	0	8.19	<=13	Pass
	2605	75	0	8.13	<=13	Pass
	2647.5	75	0	8.12	<=13	Pass

5.1.4 B41_20MHz

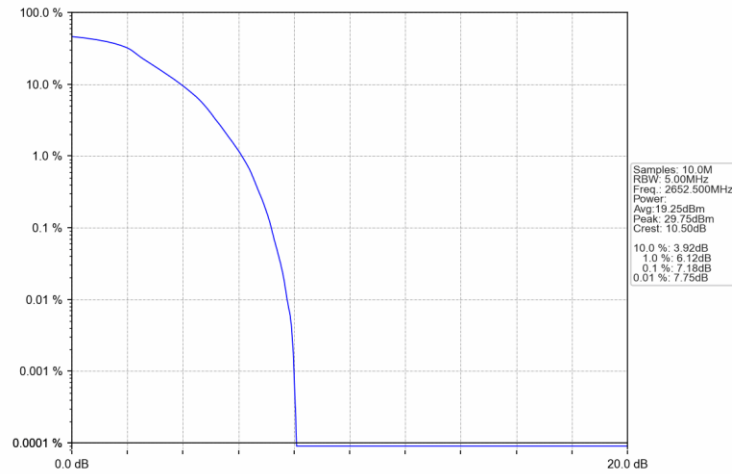
Band: 41 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2565	100	0	7.70	<=13	Pass
	2605	100	0	7.79	<=13	Pass
	2645	100	0	7.77	<=13	Pass
16QAM	2565	100	0	8.62	<=13	Pass
	2605	100	0	8.66	<=13	Pass
	2645	100	0	8.40	<=13	Pass

5.2 Test Graph

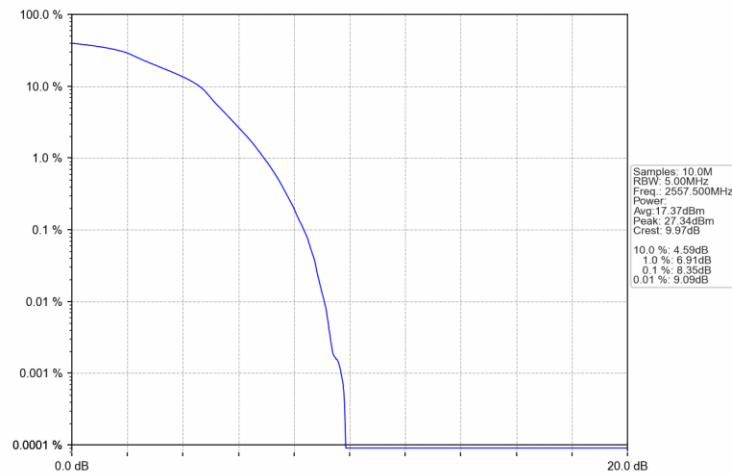
5.2.1 B41_5MHz



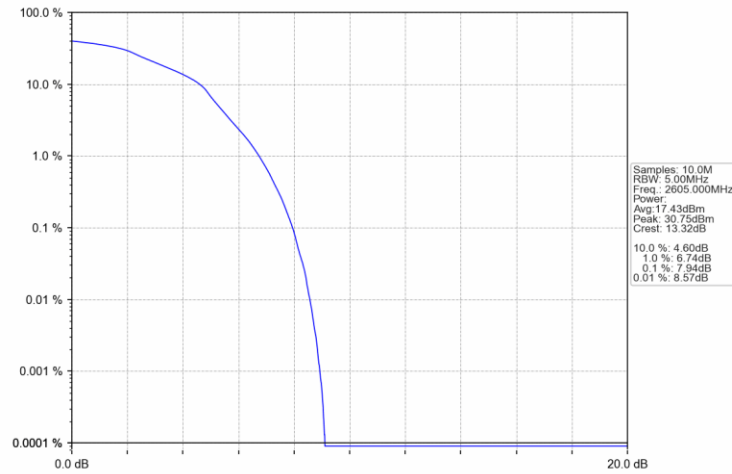
Band41 5MHz QPSK HCH 2652.5MHz RB 25 0 NTNV



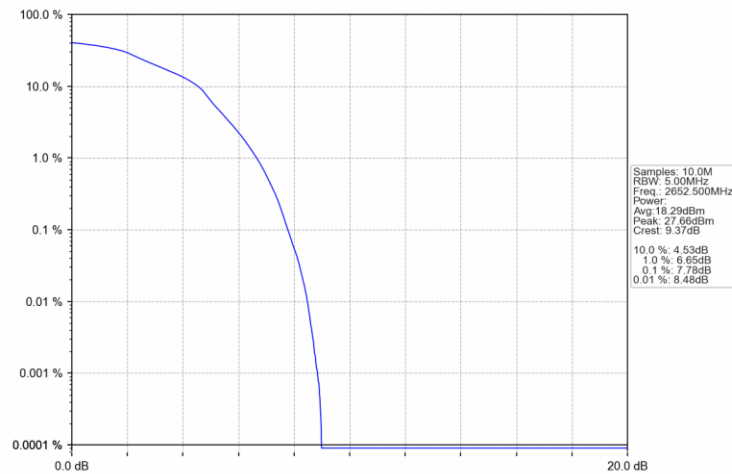
Band41 5MHz 16QAM LCH 2557.5MHz RB 25 0 NTNV



Band41 5MHz 16QAM MCH 2605MHz RB 25 0 NTNV

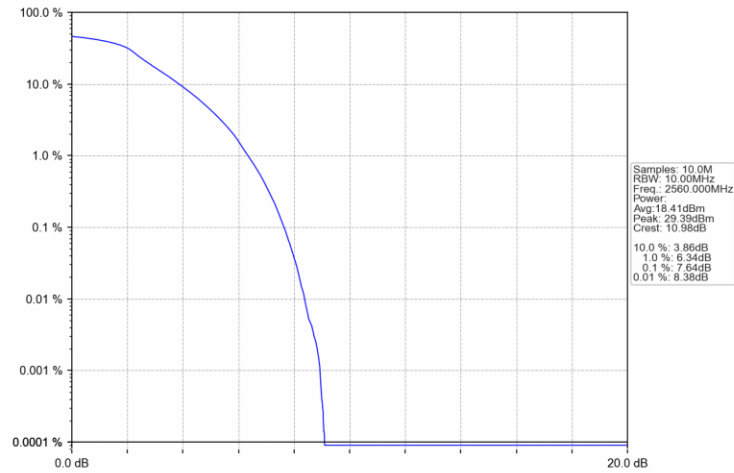


Band41 5MHz 16QAM HCH 2652.5MHz RB 25 0 NTNV

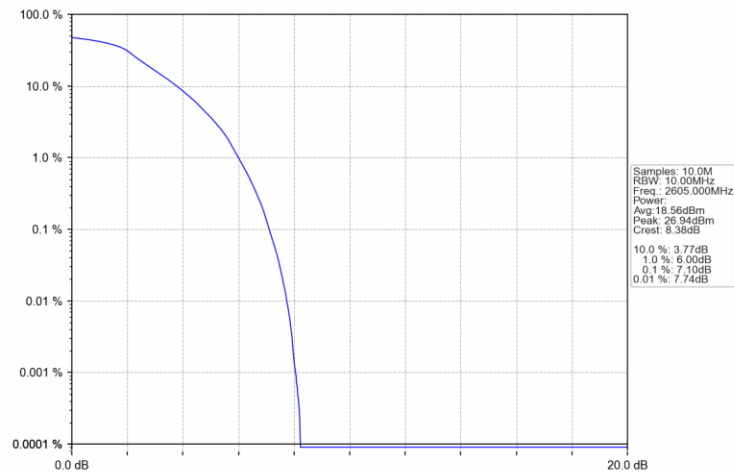


5.2.2 B41_10MHz

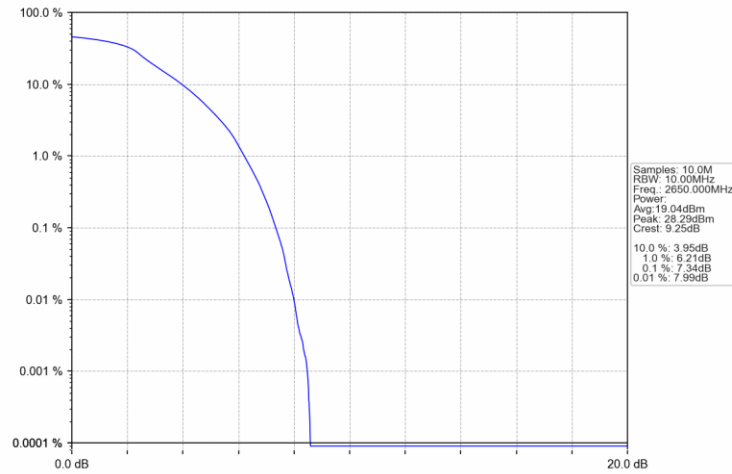
Band41_10MHz_QPSK_LCH_2560MHz_RB_50_0_NTNV



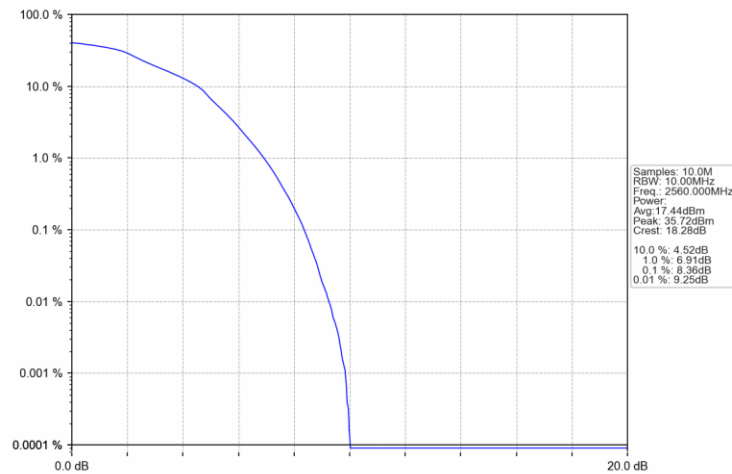
Band41_10MHz_QPSK_MCH_2605MHz_RB_50_0_NTNV



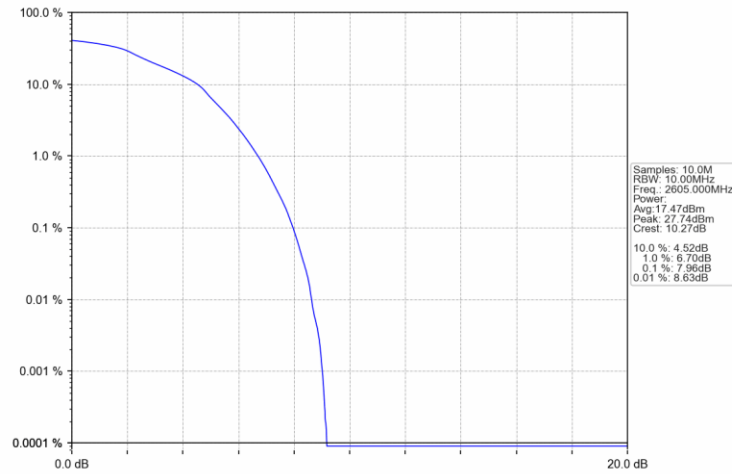
Band41 10MHz QPSK HCH 2650MHz RB 50 0 NTNV



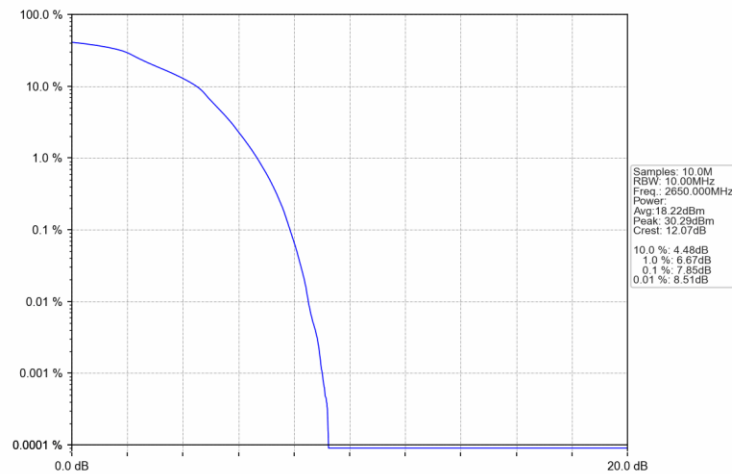
Band41 10MHz 16QAM LCH 2560MHz RB 50 0 NTNV



Band41 10MHz 16QAM MCH 2605MHz RB 50 0 NTN

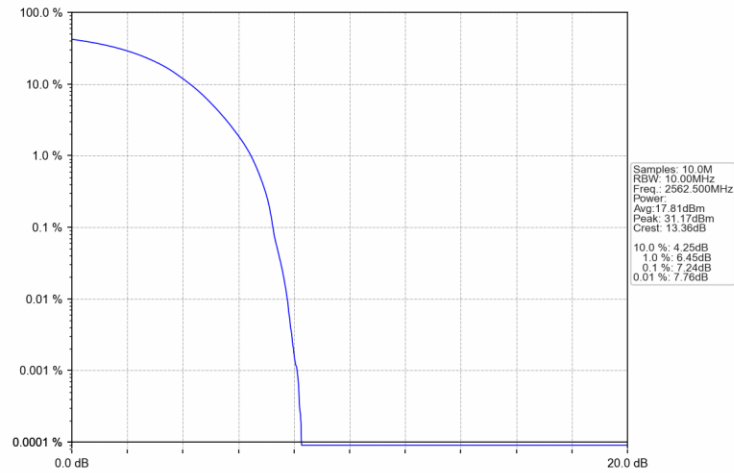


Band41 10MHz 16QAM HCH 2650MHz RB 50 0 NTN

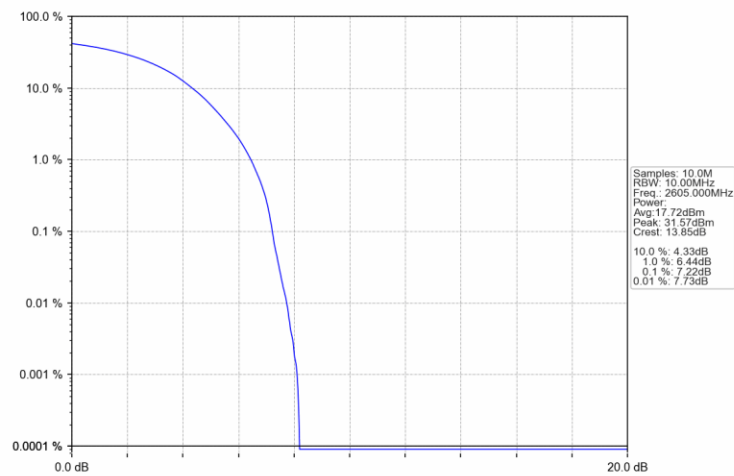


5.2.3 B41_15MHz

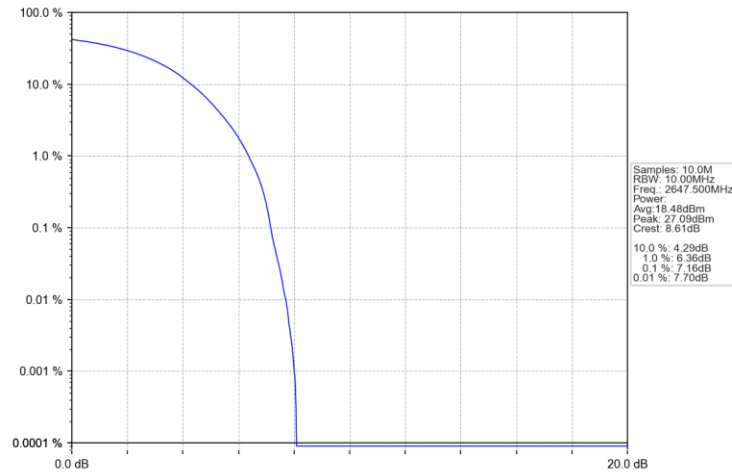
Band41 15MHz QPSK LCH 2562.5MHz RB 75 0 NTN



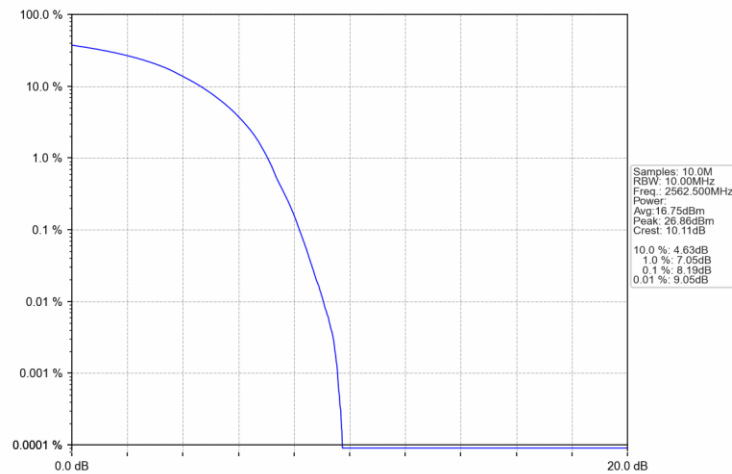
Band41 15MHz QPSK MCH 2605MHz RB 75 0 NTN



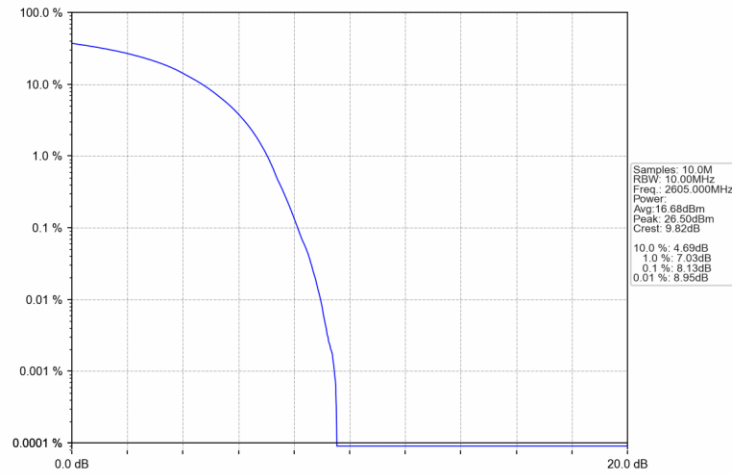
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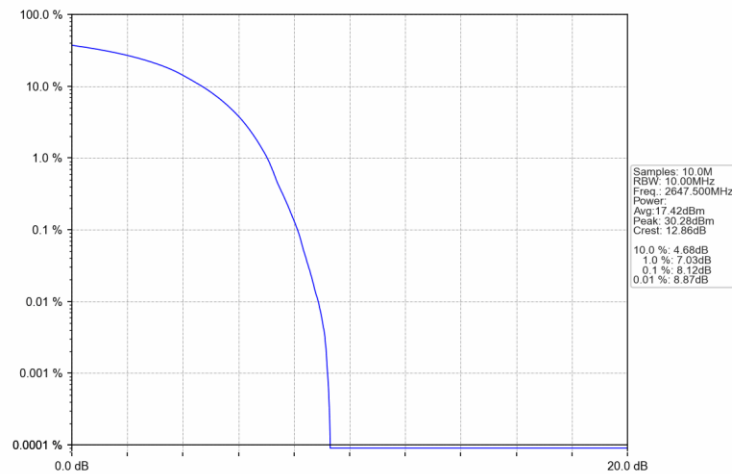
Band41_15MHz_16QAM_LCH_2562.5MHz_RB_75_0_NTNV



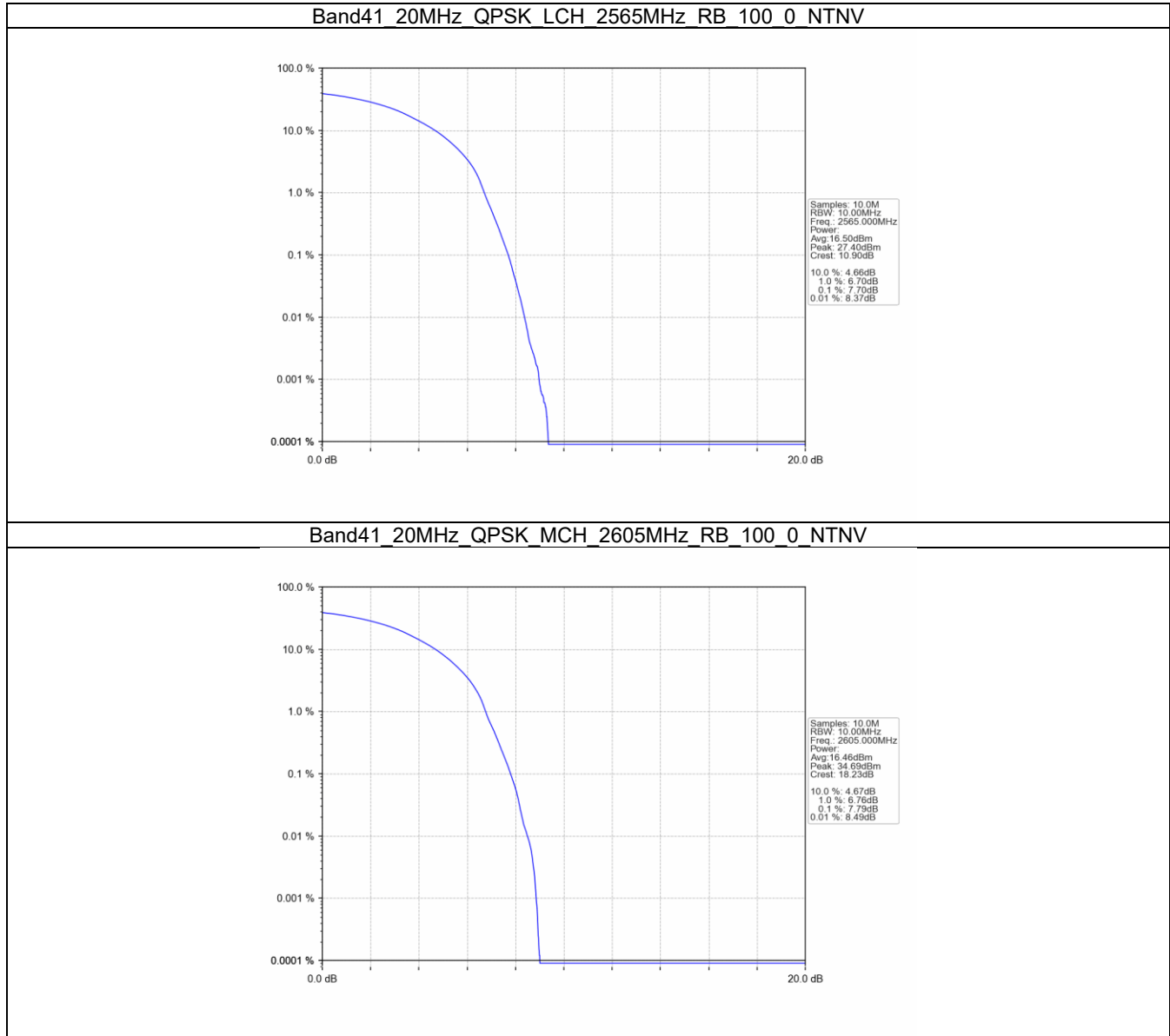
Band41 15MHz 16QAM MCH 2605MHz RB 75 0 NTN



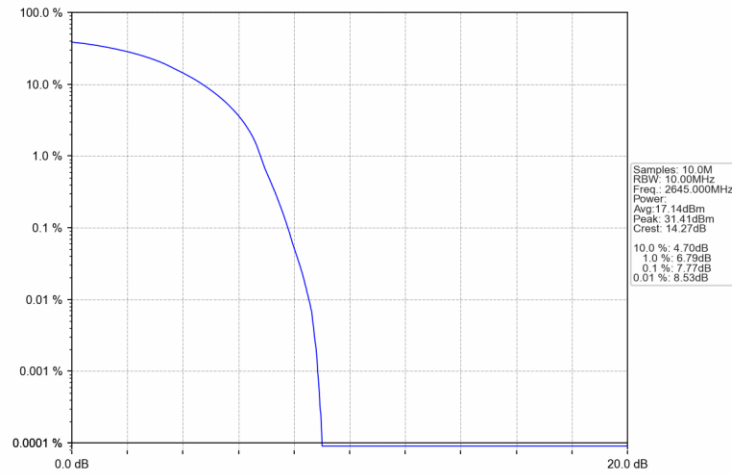
Band41 15MHz 16QAM HCH 2647.5MHz RB 75 0 NTN



5.2.4 B41_20MHz



Band41 20MHz QPSK HCH 2645MHz RB 100 0 NTN



Band41 20MHz 16QAM LCH 2565MHz RB 100 0 NTN

