

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	21.54	1.86	23.40	<=33.01	Pass
			13	21.70	1.86	23.56	<=33.01	Pass
			24	21.52	1.86	23.38	<=33.01	Pass
		12	0	20.58	1.86	22.44	<=33.01	Pass
			6	20.72	1.86	22.58	<=33.01	Pass
			13	20.62	1.86	22.48	<=33.01	Pass
		25	0	20.64	1.86	22.50	<=33.01	Pass
	2605	1	0	21.03	1.86	22.89	<=33.01	Pass
			13	21.10	1.86	22.96	<=33.01	Pass
			24	21.14	1.86	23.00	<=33.01	Pass
		12	0	20.06	1.86	21.92	<=33.01	Pass
			6	20.06	1.86	21.92	<=33.01	Pass
			13	20.02	1.86	21.88	<=33.01	Pass
		25	0	20.03	1.86	21.89	<=33.01	Pass
	2652.5	1	0	21.15	1.86	23.01	<=33.01	Pass
			13	21.27	1.86	23.13	<=33.01	Pass
			24	21.19	1.86	23.05	<=33.01	Pass
		12	0	20.12	1.86	21.98	<=33.01	Pass
			6	20.21	1.86	22.07	<=33.01	Pass
			13	20.17	1.86	22.03	<=33.01	Pass
		25	0	20.09	1.86	21.95	<=33.01	Pass
16QAM	2557.5	1	0	20.56	1.86	22.42	<=33.01	Pass
			13	20.75	1.86	22.61	<=33.01	Pass
			24	20.51	1.86	22.37	<=33.01	Pass
		12	0	19.59	1.86	21.45	<=33.01	Pass
			6	19.68	1.86	21.54	<=33.01	Pass
			13	19.55	1.86	21.41	<=33.01	Pass
		25	0	19.60	1.86	21.46	<=33.01	Pass
	2605	1	0	20.18	1.86	22.04	<=33.01	Pass
			13	20.09	1.86	21.95	<=33.01	Pass
			24	20.05	1.86	21.91	<=33.01	Pass
		12	0	19.00	1.86	20.86	<=33.01	Pass
			6	18.98	1.86	20.84	<=33.01	Pass
			13	18.96	1.86	20.82	<=33.01	Pass
		25	0	19.08	1.86	20.94	<=33.01	Pass
	2652.5	1	0	20.08	1.86	21.94	<=33.01	Pass
			13	20.30	1.86	22.16	<=33.01	Pass
			24	20.00	1.86	21.86	<=33.01	Pass
		12	0	19.01	1.86	20.87	<=33.01	Pass
			6	19.09	1.86	20.95	<=33.01	Pass
			13	19.00	1.86	20.86	<=33.01	Pass
		25	0	18.99	1.86	20.85	<=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	21.57	1.86	23.43	<=33.01	Pass
			25	21.78	1.86	23.64	<=33.01	Pass
			49	21.51	1.86	23.37	<=33.01	Pass
		25	0	20.65	1.86	22.51	<=33.01	Pass
			13	20.65	1.86	22.51	<=33.01	Pass
			25	20.58	1.86	22.44	<=33.01	Pass
		50	0	20.69	1.86	22.55	<=33.01	Pass
			0	21.17	1.86	23.03	<=33.01	Pass
			25	21.35	1.86	23.21	<=33.01	Pass
	2605	1	49	21.19	1.86	23.05	<=33.01	Pass
			0	20.16	1.86	22.02	<=33.01	Pass
			13	20.14	1.86	22.00	<=33.01	Pass
		25	25	20.10	1.86	21.96	<=33.01	Pass
			0	20.15	1.86	22.01	<=33.01	Pass
			0	21.22	1.86	23.08	<=33.01	Pass
		25	25	21.48	1.86	23.34	<=33.01	Pass
			49	21.27	1.86	23.13	<=33.01	Pass
			0	20.13	1.86	21.99	<=33.01	Pass
16QAM	2560	1	13	20.14	1.86	22.00	<=33.01	Pass
			25	20.21	1.86	22.07	<=33.01	Pass
			0	20.03	1.86	21.89	<=33.01	Pass
		12	0	20.55	1.86	22.41	<=33.01	Pass
			25	20.97	1.86	22.83	<=33.01	Pass
			49	20.71	1.86	22.57	<=33.01	Pass
		27	0	20.69	1.86	22.55	<=33.01	Pass
			19	20.65	1.86	22.51	<=33.01	Pass
			38	20.55	1.86	22.41	<=33.01	Pass
	2605	1	0	19.69	1.86	21.55	<=33.01	Pass
			0	19.82	1.86	21.68	<=33.01	Pass
			25	20.11	1.86	21.97	<=33.01	Pass
		12	49	19.84	1.86	21.70	<=33.01	Pass
			0	20.04	1.86	21.90	<=33.01	Pass
			19	20.02	1.86	21.88	<=33.01	Pass
		27	38	19.95	1.86	21.81	<=33.01	Pass
			0	19.13	1.86	20.99	<=33.01	Pass
			0	19.84	1.86	21.70	<=33.01	Pass
16QAM	2650	1	25	20.33	1.86	22.19	<=33.01	Pass
			49	20.14	1.86	22.00	<=33.01	Pass
			0	19.94	1.86	21.80	<=33.01	Pass
		12	19	20.01	1.86	21.87	<=33.01	Pass
			38	20.03	1.86	21.89	<=33.01	Pass
			23	19.07	1.86	20.93	<=33.01	Pass
		27	0	19.84	1.86	21.70	<=33.01	Pass
			25	20.33	1.86	22.19	<=33.01	Pass
			49	20.14	1.86	22.00	<=33.01	Pass
	2650	12	0	19.94	1.86	21.80	<=33.01	Pass
			19	20.01	1.86	21.87	<=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	21.31	1.86	23.17	<=33.01	Pass
			38	21.54	1.86	23.40	<=33.01	Pass
			74	21.41	1.86	23.27	<=33.01	Pass
		36	0	20.54	1.86	22.40	<=33.01	Pass
			18	20.54	1.86	22.40	<=33.01	Pass
			39	20.53	1.86	22.39	<=33.01	Pass
		75	0	20.55	1.86	22.41	<=33.01	Pass
	2605	1	0	20.93	1.86	22.79	<=33.01	Pass
			38	21.23	1.86	23.09	<=33.01	Pass
			74	20.96	1.86	22.82	<=33.01	Pass
		36	0	20.17	1.86	22.03	<=33.01	Pass
			18	20.15	1.86	22.01	<=33.01	Pass
			39	20.11	1.86	21.97	<=33.01	Pass
		75	0	20.13	1.86	21.99	<=33.01	Pass
	2647.5	1	0	21.08	1.86	22.94	<=33.01	Pass
			38	21.28	1.86	23.14	<=33.01	Pass
			74	21.13	1.86	22.99	<=33.01	Pass
		36	0	20.31	1.86	22.17	<=33.01	Pass
			18	20.35	1.86	22.21	<=33.01	Pass
			39	20.25	1.86	22.11	<=33.01	Pass
		75	0	20.24	1.86	22.10	<=33.01	Pass
16QAM	2562.5	1	0	20.31	1.86	22.17	<=33.01	Pass
			38	21.00	1.86	22.86	<=33.01	Pass
			74	20.75	1.86	22.61	<=33.01	Pass
		12	0	20.47	1.86	22.33	<=33.01	Pass
			31	20.63	1.86	22.49	<=33.01	Pass
			63	20.29	1.86	22.15	<=33.01	Pass
		27	0	19.42	1.86	21.28	<=33.01	Pass
	2605	1	0	19.79	1.86	21.65	<=33.01	Pass
			38	20.00	1.86	21.86	<=33.01	Pass
			74	19.60	1.86	21.46	<=33.01	Pass
		12	0	19.86	1.86	21.72	<=33.01	Pass
			31	20.00	1.86	21.86	<=33.01	Pass
			63	19.80	1.86	21.66	<=33.01	Pass
		27	0	18.95	1.86	20.81	<=33.01	Pass
	2647.5	1	0	19.70	1.86	21.56	<=33.01	Pass
			38	20.14	1.86	22.00	<=33.01	Pass
			74	19.68	1.86	21.54	<=33.01	Pass
		12	0	19.80	1.86	21.66	<=33.01	Pass
			31	19.93	1.86	21.79	<=33.01	Pass
			63	19.84	1.86	21.70	<=33.01	Pass
		27	48	19.00	1.86	20.86	<=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	21.27	1.86	23.13	<=33.01	Pass
			50	21.70	1.86	23.56	<=33.01	Pass
			99	21.13	1.86	22.99	<=33.01	Pass
		50	0	20.56	1.86	22.42	<=33.01	Pass
			25	20.54	1.86	22.40	<=33.01	Pass
			50	20.45	1.86	22.31	<=33.01	Pass
		100	0	20.57	1.86	22.43	<=33.01	Pass
	2605	1	0	20.80	1.86	22.66	<=33.01	Pass
			50	21.33	1.86	23.19	<=33.01	Pass
			99	20.79	1.86	22.65	<=33.01	Pass
		50	0	20.12	1.86	21.98	<=33.01	Pass
			25	20.02	1.86	21.88	<=33.01	Pass
			50	19.94	1.86	21.80	<=33.01	Pass
		100	0	20.08	1.86	21.94	<=33.01	Pass
	2645	1	0	20.84	1.86	22.70	<=33.01	Pass
			50	21.38	1.86	23.24	<=33.01	Pass
			99	20.94	1.86	22.80	<=33.01	Pass
		50	0	20.10	1.86	21.96	<=33.01	Pass
			25	20.06	1.86	21.92	<=33.01	Pass
			50	20.00	1.86	21.86	<=33.01	Pass
		100	0	20.08	1.86	21.94	<=33.01	Pass
16QAM	2565	1	0	20.44	1.86	22.30	<=33.01	Pass
			50	20.69	1.86	22.55	<=33.01	Pass
			99	19.78	1.86	21.64	<=33.01	Pass
		12	0	20.32	1.86	22.18	<=33.01	Pass
			44	20.53	1.86	22.39	<=33.01	Pass
			88	20.12	1.86	21.98	<=33.01	Pass
		27	0	19.45	1.86	21.31	<=33.01	Pass
	2605	1	0	19.59	1.86	21.45	<=33.01	Pass
			50	19.96	1.86	21.82	<=33.01	Pass
			99	19.87	1.86	21.73	<=33.01	Pass
		12	0	19.83	1.86	21.69	<=33.01	Pass
			44	20.03	1.86	21.89	<=33.01	Pass
			88	19.70	1.86	21.56	<=33.01	Pass
		27	0	19.00	1.86	20.86	<=33.01	Pass
	2645	1	0	19.95	1.86	21.81	<=33.01	Pass
			50	20.50	1.86	22.36	<=33.01	Pass
			99	20.02	1.86	21.88	<=33.01	Pass
		12	0	19.65	1.86	21.51	<=33.01	Pass
			44	20.02	1.86	21.88	<=33.01	Pass
			88	19.66	1.86	21.52	<=33.01	Pass
		27	73	18.91	1.86	20.77	<=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	3.15	-16.522	-0.0065	-2.5 to 2.5	Pass
					3.70	-31.857	-0.0125	-2.5 to 2.5	Pass
					4.26	-41.142	-0.0161	-2.5 to 2.5	Pass
				-30	3.70	-48.008	-0.0188	-2.5 to 2.5	Pass
				-20	3.70	-37.251	-0.0146	-2.5 to 2.5	Pass
				-10	3.70	-30.255	-0.0118	-2.5 to 2.5	Pass
				0	3.70	-35.577	-0.0139	-2.5 to 2.5	Pass
				10	3.70	-37.780	-0.0148	-2.5 to 2.5	Pass
				30	3.70	-43.144	-0.0169	-2.5 to 2.5	Pass
				40	3.70	-41.127	-0.0161	-2.5 to 2.5	Pass
				50	3.70	-41.757	-0.0163	-2.5 to 2.5	Pass
	2605	25	0	20	3.15	-1.717	-0.0007	-2.5 to 2.5	Pass
					3.70	-5.636	-0.0022	-2.5 to 2.5	Pass
					4.26	-16.394	-0.0063	-2.5 to 2.5	Pass
				-30	3.70	-5.522	-0.0021	-2.5 to 2.5	Pass
				-20	3.70	-12.259	-0.0047	-2.5 to 2.5	Pass
				-10	3.70	-15.206	-0.0058	-2.5 to 2.5	Pass
				0	3.70	-12.660	-0.0049	-2.5 to 2.5	Pass
				10	3.70	-5.121	-0.0020	-2.5 to 2.5	Pass
				30	3.70	-5.279	-0.0020	-2.5 to 2.5	Pass
				40	3.70	-6.809	-0.0026	-2.5 to 2.5	Pass
				50	3.70	-3.905	-0.0015	-2.5 to 2.5	Pass
	2652.5	25	0	20	3.15	6.795	0.0026	-2.5 to 2.5	Pass
					3.70	-1.330	-0.0005	-2.5 to 2.5	Pass
					4.26	-9.999	-0.0038	-2.5 to 2.5	Pass
				-30	3.70	-6.938	-0.0026	-2.5 to 2.5	Pass
				-20	3.70	-3.033	-0.0011	-2.5 to 2.5	Pass
				-10	3.70	-1.960	-0.0007	-2.5 to 2.5	Pass
				0	3.70	5.565	0.0021	-2.5 to 2.5	Pass
				10	3.70	9.441	0.0036	-2.5 to 2.5	Pass
				30	3.70	9.828	0.0037	-2.5 to 2.5	Pass
				40	3.70	14.806	0.0056	-2.5 to 2.5	Pass
				50	3.70	10.500	0.0040	-2.5 to 2.5	Pass
16QAM	2557.5	25	0	20	3.15	-41.599	-0.0163	-2.5 to 2.5	Pass
					3.70	-41.084	-0.0161	-2.5 to 2.5	Pass
					4.26	-29.783	-0.0116	-2.5 to 2.5	Pass
				-30	3.70	-39.182	-0.0153	-2.5 to 2.5	Pass
				-20	3.70	-32.630	-0.0128	-2.5 to 2.5	Pass
				-10	3.70	-39.454	-0.0154	-2.5 to 2.5	Pass
				0	3.70	-40.455	-0.0158	-2.5 to 2.5	Pass
				10	3.70	-33.545	-0.0131	-2.5 to 2.5	Pass
				30	3.70	-42.143	-0.0165	-2.5 to 2.5	Pass
				40	3.70	-34.347	-0.0134	-2.5 to 2.5	Pass
				50	3.70	-31.986	-0.0125	-2.5 to 2.5	Pass
	2605	25	0	20	3.15	3.061	0.0012	-2.5 to 2.5	Pass
					3.70	-2.060	-0.0008	-2.5 to 2.5	Pass
					4.26	-3.347	-0.0013	-2.5 to 2.5	Pass
				-30	3.70	-3.219	-0.0012	-2.5 to 2.5	Pass
				-20	3.70	-9.742	-0.0037	-2.5 to 2.5	Pass
				-10	3.70	-1.030	-0.0004	-2.5 to 2.5	Pass

				0	3.70	-7.653	-0.0029	-2.5 to 2.5	Pass
				10	3.70	-10.271	-0.0039	-2.5 to 2.5	Pass
				30	3.70	-1.531	-0.0006	-2.5 to 2.5	Pass
				40	3.70	-5.522	-0.0021	-2.5 to 2.5	Pass
				50	3.70	-2.432	-0.0009	-2.5 to 2.5	Pass
	2652.5	25	0	20	3.15	12.832	0.0048	-2.5 to 2.5	Pass
					3.70	11.201	0.0042	-2.5 to 2.5	Pass
					4.26	16.809	0.0063	-2.5 to 2.5	Pass
				-30	3.70	21.729	0.0082	-2.5 to 2.5	Pass
				-20	3.70	19.870	0.0075	-2.5 to 2.5	Pass
				-10	3.70	14.334	0.0054	-2.5 to 2.5	Pass
				0	3.70	24.590	0.0093	-2.5 to 2.5	Pass
				10	3.70	16.279	0.0061	-2.5 to 2.5	Pass
				30	3.70	10.743	0.0041	-2.5 to 2.5	Pass
				40	3.70	12.059	0.0045	-2.5 to 2.5	Pass
				50	3.70	13.661	0.0052	-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	3.15	-10.729	-0.0042	-2.5 to 2.5	Pass
					3.70	0.730	0.0003	-2.5 to 2.5	Pass
					4.26	0.744	0.0003	-2.5 to 2.5	Pass
				-30	3.70	-5.493	-0.0021	-2.5 to 2.5	Pass
				-20	3.70	-8.597	-0.0034	-2.5 to 2.5	Pass
				-10	3.70	-0.744	-0.0003	-2.5 to 2.5	Pass
				0	3.70	-5.865	-0.0023	-2.5 to 2.5	Pass
				10	3.70	-4.091	-0.0016	-2.5 to 2.5	Pass
				30	3.70	-5.908	-0.0023	-2.5 to 2.5	Pass
				40	3.70	-3.090	-0.0012	-2.5 to 2.5	Pass
				50	3.70	-9.456	-0.0037	-2.5 to 2.5	Pass
	2605	50	0	20	3.15	-6.952	-0.0027	-2.5 to 2.5	Pass
					3.70	-0.558	-0.0002	-2.5 to 2.5	Pass
					4.26	-8.984	-0.0034	-2.5 to 2.5	Pass
				-30	3.70	-1.230	-0.0005	-2.5 to 2.5	Pass
				-20	3.70	-3.920	-0.0015	-2.5 to 2.5	Pass
				-10	3.70	-1.960	-0.0008	-2.5 to 2.5	Pass
				0	3.70	-5.593	-0.0021	-2.5 to 2.5	Pass
				10	3.70	-0.572	-0.0002	-2.5 to 2.5	Pass
				30	3.70	-4.463	-0.0017	-2.5 to 2.5	Pass
				40	3.70	-1.187	-0.0005	-2.5 to 2.5	Pass
				50	3.70	-4.778	-0.0018	-2.5 to 2.5	Pass
	2650	50	0	20	3.15	-0.587	-0.0002	-2.5 to 2.5	Pass
					3.70	-7.267	-0.0027	-2.5 to 2.5	Pass
					4.26	-4.492	-0.0017	-2.5 to 2.5	Pass
				-30	3.70	-3.290	-0.0012	-2.5 to 2.5	Pass
				-20	3.70	-5.050	-0.0019	-2.5 to 2.5	Pass
				-10	3.70	-6.752	-0.0025	-2.5 to 2.5	Pass
				0	3.70	-6.108	-0.0023	-2.5 to 2.5	Pass
				10	3.70	-7.153	-0.0027	-2.5 to 2.5	Pass
				30	3.70	-3.591	-0.0014	-2.5 to 2.5	Pass
				40	3.70	-5.064	-0.0019	-2.5 to 2.5	Pass
16QAM	2560	27	0	20	3.15	-0.272	-0.0001	-2.5 to 2.5	Pass
					3.70	-2.446	-0.0010	-2.5 to 2.5	Pass
					4.26	-7.353	-0.0029	-2.5 to 2.5	Pass
				-30	3.70	-7.138	-0.0028	-2.5 to 2.5	Pass
				-20	3.70	-1.574	-0.0006	-2.5 to 2.5	Pass
				-10	3.70	-2.961	-0.0012	-2.5 to 2.5	Pass
				0	3.70	-7.796	-0.0030	-2.5 to 2.5	Pass
				10	3.70	3.047	0.0012	-2.5 to 2.5	Pass
				30	3.70	-7.582	-0.0030	-2.5 to 2.5	Pass
				40	3.70	-3.848	-0.0015	-2.5 to 2.5	Pass
				50	3.70	-6.380	-0.0025	-2.5 to 2.5	Pass
	2605	27	0	20	3.15	-0.672	-0.0003	-2.5 to 2.5	Pass
					3.70	-4.535	-0.0017	-2.5 to 2.5	Pass
					4.26	-4.807	-0.0018	-2.5 to 2.5	Pass
				-30	3.70	4.420	0.0017	-2.5 to 2.5	Pass
				-20	3.70	-9.384	-0.0036	-2.5 to 2.5	Pass
				-10	3.70	-6.180	-0.0024	-2.5 to 2.5	Pass
				0	3.70	-13.876	-0.0053	-2.5 to 2.5	Pass
				10	3.70	-11.702	-0.0045	-2.5 to 2.5	Pass
				30	3.70	-1.187	-0.0005	-2.5 to 2.5	Pass
				40	3.70	-10.729	-0.0041	-2.5 to 2.5	Pass
				50	3.70	-8.583	-0.0033	-2.5 to 2.5	Pass

	2650	27	23	20	3.15	-7.954	-0.0030	-2.5 to 2.5	Pass
					3.70	-2.403	-0.0009	-2.5 to 2.5	Pass
					4.26	0.515	0.0002	-2.5 to 2.5	Pass
				-30	3.70	-2.189	-0.0008	-2.5 to 2.5	Pass
				-20	3.70	-1.388	-0.0005	-2.5 to 2.5	Pass
				-10	3.70	-7.539	-0.0028	-2.5 to 2.5	Pass
				0	3.70	-7.153	-0.0027	-2.5 to 2.5	Pass
				10	3.70	-6.909	-0.0026	-2.5 to 2.5	Pass
				30	3.70	-4.778	-0.0018	-2.5 to 2.5	Pass
				40	3.70	-13.118	-0.0050	-2.5 to 2.5	Pass
				50	3.70	2.575	0.0010	-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	3.15	-14.262	-0.0056	-2.5 to 2.5	Pass
					3.70	-4.849	-0.0019	-2.5 to 2.5	Pass
					4.26	-7.911	-0.0031	-2.5 to 2.5	Pass
				-30	3.70	-6.123	-0.0024	-2.5 to 2.5	Pass
				-20	3.70	-7.367	-0.0029	-2.5 to 2.5	Pass
				-10	3.70	-6.022	-0.0024	-2.5 to 2.5	Pass
				0	3.70	-7.210	-0.0028	-2.5 to 2.5	Pass
				10	3.70	-4.263	-0.0017	-2.5 to 2.5	Pass
				30	3.70	-3.862	-0.0015	-2.5 to 2.5	Pass
				40	3.70	-3.619	-0.0014	-2.5 to 2.5	Pass
				50	3.70	-7.339	-0.0029	-2.5 to 2.5	Pass
	2605	75	0	20	3.15	-9.613	-0.0037	-2.5 to 2.5	Pass
					3.70	-0.300	-0.0001	-2.5 to 2.5	Pass
					4.26	-2.489	-0.0010	-2.5 to 2.5	Pass
				-30	3.70	-6.480	-0.0025	-2.5 to 2.5	Pass
				-20	3.70	-9.527	-0.0037	-2.5 to 2.5	Pass
				-10	3.70	-3.605	-0.0014	-2.5 to 2.5	Pass
				0	3.70	-11.215	-0.0043	-2.5 to 2.5	Pass
				10	3.70	-2.904	-0.0011	-2.5 to 2.5	Pass
				30	3.70	-0.873	-0.0003	-2.5 to 2.5	Pass
				40	3.70	-4.463	-0.0017	-2.5 to 2.5	Pass
				50	3.70	-3.676	-0.0014	-2.5 to 2.5	Pass
	2647.5	75	0	20	3.15	-13.590	-0.0051	-2.5 to 2.5	Pass
					3.70	-7.997	-0.0030	-2.5 to 2.5	Pass
					4.26	-8.068	-0.0030	-2.5 to 2.5	Pass
				-30	3.70	-11.330	-0.0043	-2.5 to 2.5	Pass
				-20	3.70	-7.024	-0.0027	-2.5 to 2.5	Pass
				-10	3.70	-7.625	-0.0029	-2.5 to 2.5	Pass
				0	3.70	-4.163	-0.0016	-2.5 to 2.5	Pass
				10	3.70	-13.304	-0.0050	-2.5 to 2.5	Pass
				30	3.70	-8.397	-0.0032	-2.5 to 2.5	Pass
				40	3.70	-10.085	-0.0038	-2.5 to 2.5	Pass
16QAM	2562.5	27	0	20	3.15	-12.403	-0.0048	-2.5 to 2.5	Pass
					3.70	-1.917	-0.0007	-2.5 to 2.5	Pass
					4.26	-2.031	-0.0008	-2.5 to 2.5	Pass
				-30	3.70	-2.604	-0.0010	-2.5 to 2.5	Pass
				-20	3.70	-11.859	-0.0046	-2.5 to 2.5	Pass
				-10	3.70	-2.189	-0.0009	-2.5 to 2.5	Pass
				0	3.70	-7.296	-0.0028	-2.5 to 2.5	Pass
				10	3.70	-5.021	-0.0020	-2.5 to 2.5	Pass
				30	3.70	-3.176	-0.0012	-2.5 to 2.5	Pass
				40	3.70	-2.446	-0.0010	-2.5 to 2.5	Pass
				50	3.70	-2.160	-0.0008	-2.5 to 2.5	Pass
	2605	27	0	20	3.15	-6.394	-0.0025	-2.5 to 2.5	Pass
					3.70	-7.339	-0.0028	-2.5 to 2.5	Pass
					4.26	-2.503	-0.0010	-2.5 to 2.5	Pass
				-30	3.70	-5.865	-0.0023	-2.5 to 2.5	Pass
				-20	3.70	-6.738	-0.0026	-2.5 to 2.5	Pass
				-10	3.70	-9.255	-0.0036	-2.5 to 2.5	Pass
				0	3.70	-5.136	-0.0020	-2.5 to 2.5	Pass
				10	3.70	-8.926	-0.0034	-2.5 to 2.5	Pass
				30	3.70	-3.233	-0.0012	-2.5 to 2.5	Pass
				40	3.70	-8.783	-0.0034	-2.5 to 2.5	Pass
				50	3.70	-6.938	-0.0027	-2.5 to 2.5	Pass

	2647.5	27	48	20	3.15	-4.234	-0.0016	-2.5 to 2.5	Pass
					3.70	-2.303	-0.0009	-2.5 to 2.5	Pass
					4.26	-3.104	-0.0012	-2.5 to 2.5	Pass
				-30	3.70	-5.951	-0.0022	-2.5 to 2.5	Pass
				-20	3.70	-15.321	-0.0058	-2.5 to 2.5	Pass
				-10	3.70	-9.599	-0.0036	-2.5 to 2.5	Pass
				0	3.70	-4.992	-0.0019	-2.5 to 2.5	Pass
				10	3.70	-2.904	-0.0011	-2.5 to 2.5	Pass
				30	3.70	-13.404	-0.0051	-2.5 to 2.5	Pass
				40	3.70	1.645	0.0006	-2.5 to 2.5	Pass
				50	3.70	-8.254	-0.0031	-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	3.15	-9.313	-0.0036	-2.5 to 2.5	Pass
					3.70	-2.875	-0.0011	-2.5 to 2.5	Pass
					4.26	-5.636	-0.0022	-2.5 to 2.5	Pass
				-30	3.70	-5.350	-0.0021	-2.5 to 2.5	Pass
				-20	3.70	-1.616	-0.0006	-2.5 to 2.5	Pass
				-10	3.70	-1.616	-0.0006	-2.5 to 2.5	Pass
				0	3.70	-6.151	-0.0024	-2.5 to 2.5	Pass
				10	3.70	-6.866	-0.0027	-2.5 to 2.5	Pass
				30	3.70	-5.250	-0.0020	-2.5 to 2.5	Pass
				40	3.70	-5.822	-0.0023	-2.5 to 2.5	Pass
				50	3.70	-6.351	-0.0025	-2.5 to 2.5	Pass
	2605	100	0	20	3.15	-4.363	-0.0017	-2.5 to 2.5	Pass
					3.70	-7.310	-0.0028	-2.5 to 2.5	Pass
					4.26	-4.706	-0.0018	-2.5 to 2.5	Pass
				-30	3.70	-3.591	-0.0014	-2.5 to 2.5	Pass
				-20	3.70	-5.307	-0.0020	-2.5 to 2.5	Pass
				-10	3.70	-1.202	-0.0005	-2.5 to 2.5	Pass
				0	3.70	-12.631	-0.0048	-2.5 to 2.5	Pass
				10	3.70	-2.389	-0.0009	-2.5 to 2.5	Pass
				30	3.70	-1.187	-0.0005	-2.5 to 2.5	Pass
				40	3.70	-6.337	-0.0024	-2.5 to 2.5	Pass
				50	3.70	0.443	0.0002	-2.5 to 2.5	Pass
	2645	100	0	20	3.15	-14.005	-0.0053	-2.5 to 2.5	Pass
					3.70	-8.855	-0.0033	-2.5 to 2.5	Pass
					4.26	-10.214	-0.0039	-2.5 to 2.5	Pass
				-30	3.70	-8.740	-0.0033	-2.5 to 2.5	Pass
				-20	3.70	-9.270	-0.0035	-2.5 to 2.5	Pass
				-10	3.70	-9.785	-0.0037	-2.5 to 2.5	Pass
				0	3.70	-8.039	-0.0030	-2.5 to 2.5	Pass
				10	3.70	-9.227	-0.0035	-2.5 to 2.5	Pass
				30	3.70	-6.351	-0.0024	-2.5 to 2.5	Pass
				40	3.70	-7.410	-0.0028	-2.5 to 2.5	Pass
				50	3.70	-13.461	-0.0051	-2.5 to 2.5	Pass
16QAM	2565	27	0	20	3.15	0.186	0.0001	-2.5 to 2.5	Pass
					3.70	-0.372	-0.0001	-2.5 to 2.5	Pass
					4.26	-7.181	-0.0028	-2.5 to 2.5	Pass
				-30	3.70	-6.123	-0.0024	-2.5 to 2.5	Pass
				-20	3.70	-4.549	-0.0018	-2.5 to 2.5	Pass
				-10	3.70	-0.615	-0.0002	-2.5 to 2.5	Pass
				0	3.70	-10.772	-0.0042	-2.5 to 2.5	Pass
				10	3.70	-7.539	-0.0029	-2.5 to 2.5	Pass
				30	3.70	-4.005	-0.0016	-2.5 to 2.5	Pass
				40	3.70	5.465	0.0021	-2.5 to 2.5	Pass
				50	3.70	1.302	0.0005	-2.5 to 2.5	Pass
	2605	27	0	20	3.15	-2.232	-0.0009	-2.5 to 2.5	Pass
					3.70	-4.277	-0.0016	-2.5 to 2.5	Pass
					4.26	2.146	0.0008	-2.5 to 2.5	Pass
				-30	3.70	-10.529	-0.0040	-2.5 to 2.5	Pass
				-20	3.70	-8.311	-0.0032	-2.5 to 2.5	Pass
				-10	3.70	-2.375	-0.0009	-2.5 to 2.5	Pass
				0	3.70	-4.005	-0.0015	-2.5 to 2.5	Pass
				10	3.70	-7.310	-0.0028	-2.5 to 2.5	Pass
				30	3.70	-8.998	-0.0035	-2.5 to 2.5	Pass
				40	3.70	-9.570	-0.0037	-2.5 to 2.5	Pass
				50	3.70	0.587	0.0002	-2.5 to 2.5	Pass

	2645	27	73	20	3.15	-14.277	-0.0054	-2.5 to 2.5	Pass
					3.70	-12.374	-0.0047	-2.5 to 2.5	Pass
					4.26	-9.670	-0.0037	-2.5 to 2.5	Pass
				-30	3.70	-7.954	-0.0030	-2.5 to 2.5	Pass
				-20	3.70	-8.554	-0.0032	-2.5 to 2.5	Pass
				-10	3.70	-13.204	-0.0050	-2.5 to 2.5	Pass
				0	3.70	-12.660	-0.0048	-2.5 to 2.5	Pass
				10	3.70	-10.972	-0.0041	-2.5 to 2.5	Pass
				30	3.70	-12.302	-0.0047	-2.5 to 2.5	Pass
				40	3.70	-4.807	-0.0018	-2.5 to 2.5	Pass
				50	3.70	-5.665	-0.0021	-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

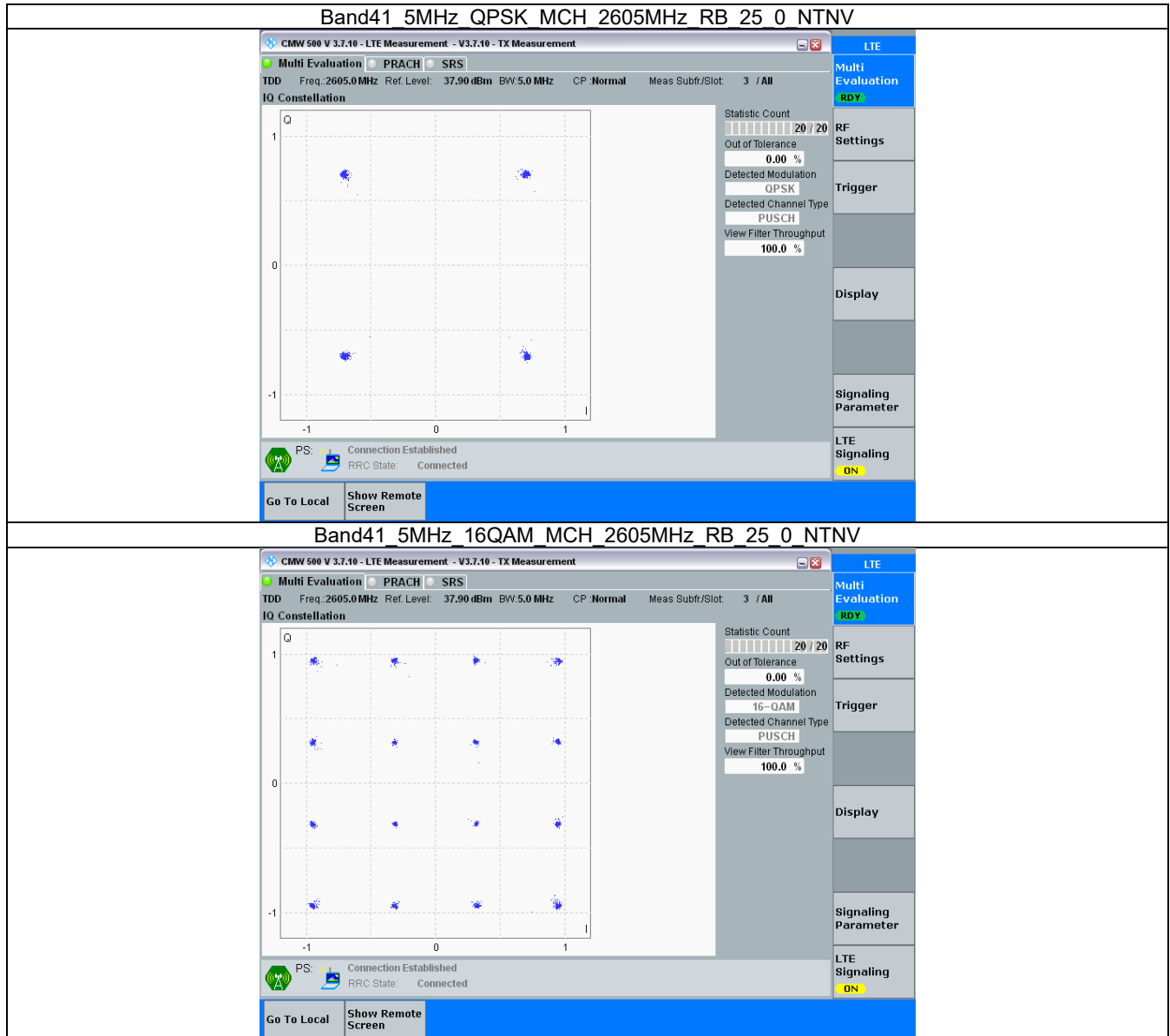
Band: 41 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2605	75	0	Refer To Test Graph		Pass
16QAM	2605	27	0	Refer To Test Graph		Pass

3.1.4 B41_20MHz

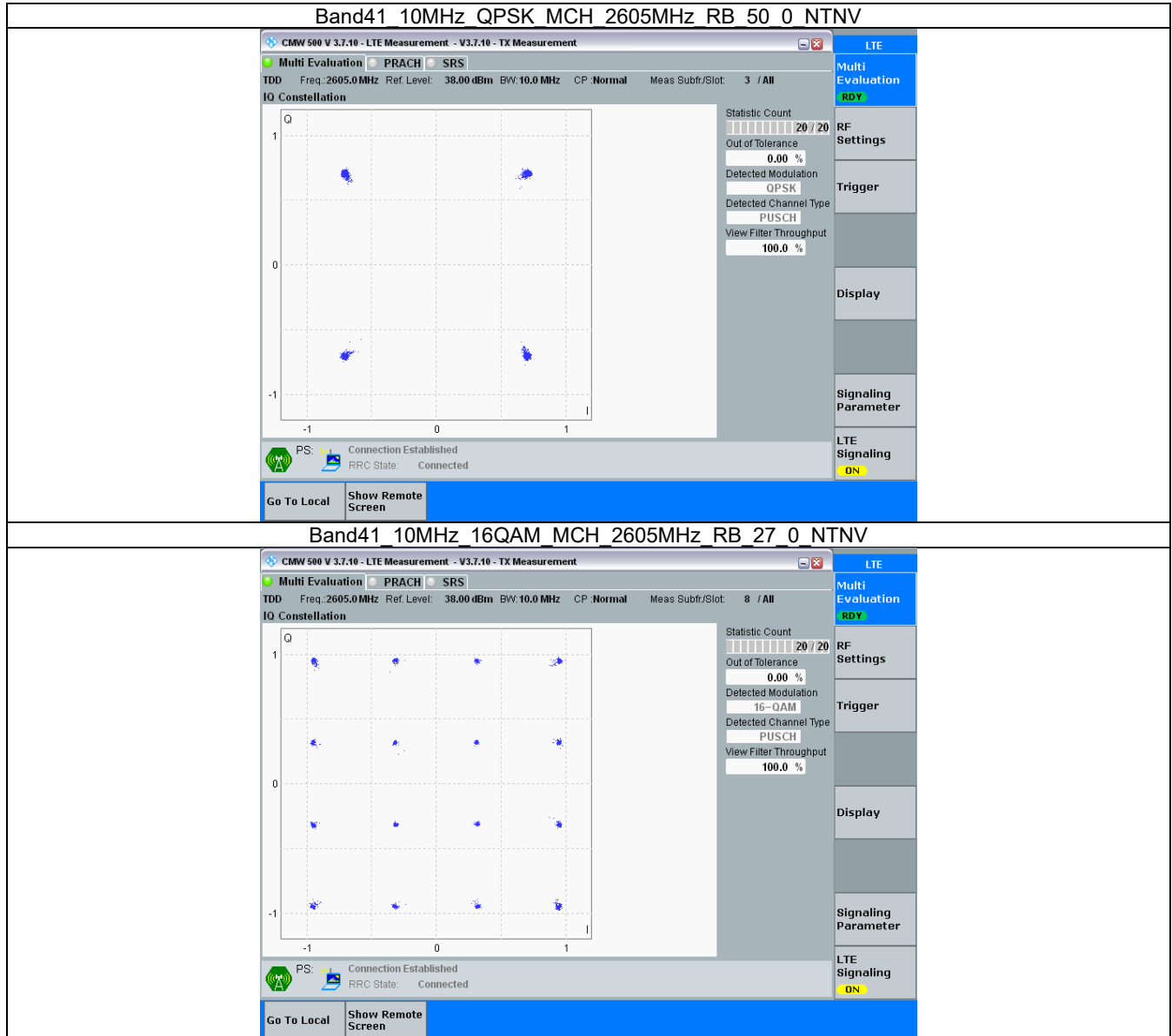
Band: 41 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2605	100	0	Refer To Test Graph		Pass
16QAM	2605	27	0	Refer To Test Graph		Pass

3.2 Test Graph

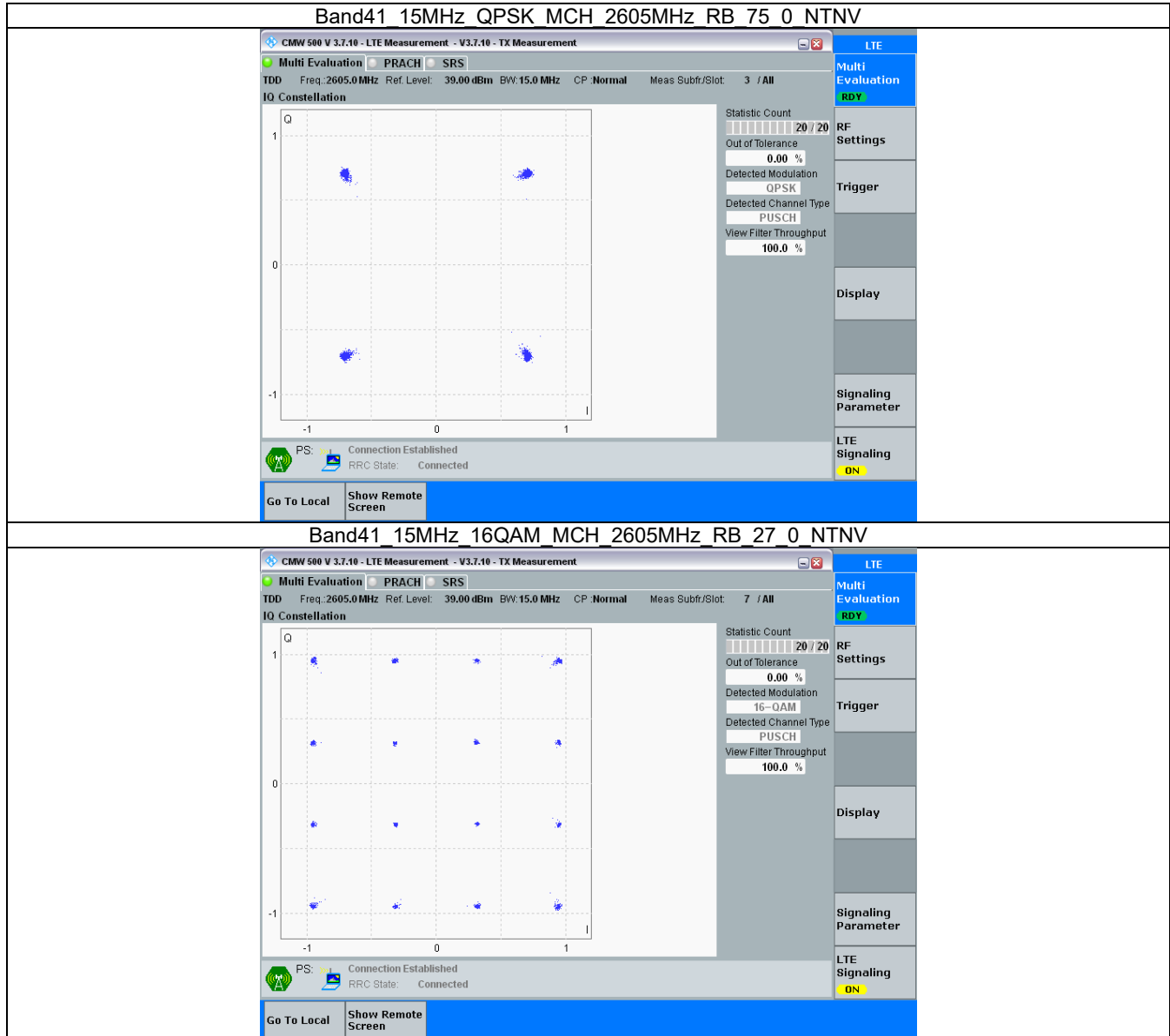
3.2.1 B41_5MHz



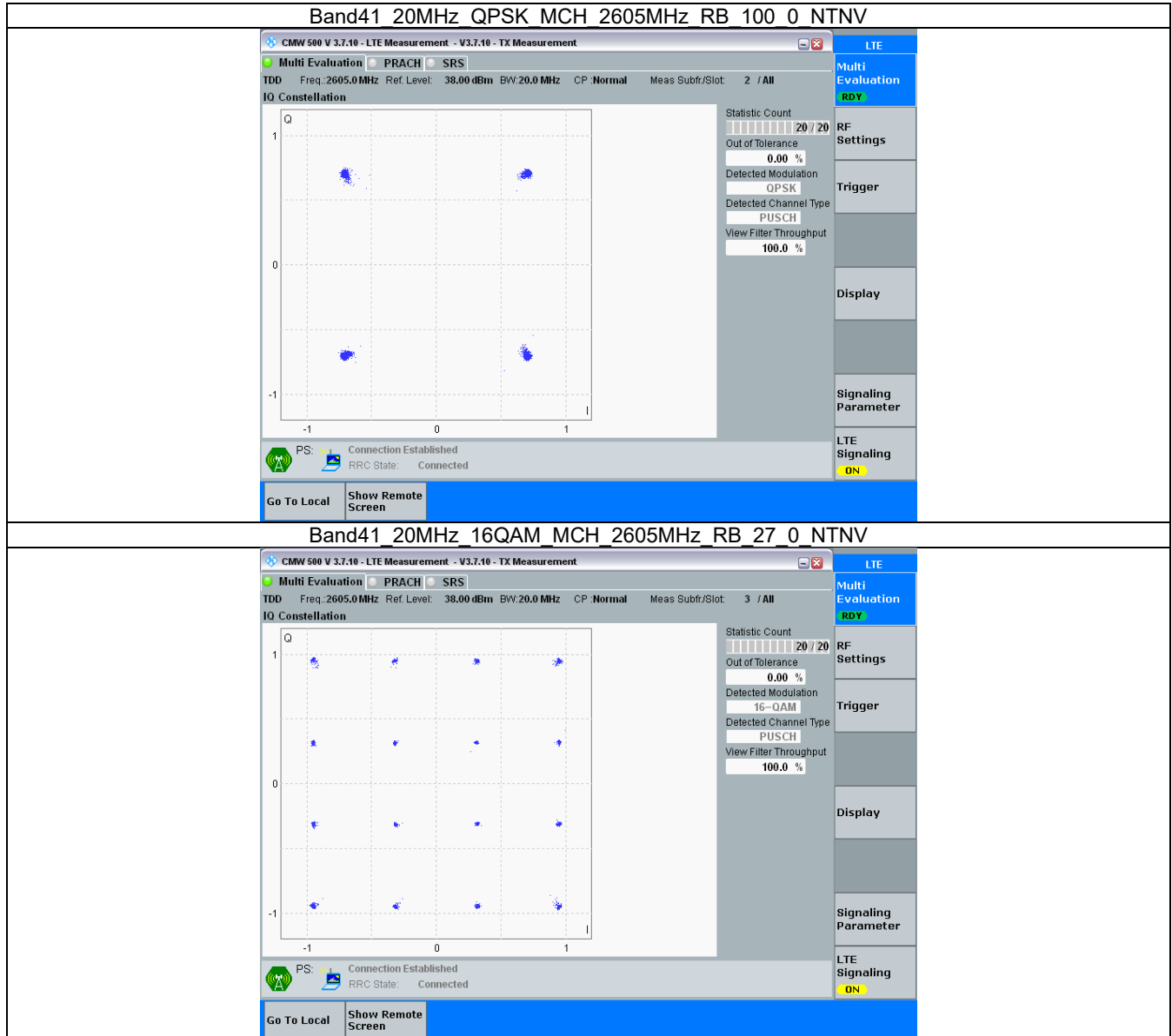
3.2.2 B41_10MHz



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	4.544	/	Pass
		2605	25	0	4.545	/	Pass
		2652.5	25	0	4.555	/	Pass
	16QAM	2557.5	25	0	4.572	/	Pass
		2605	25	0	4.549	/	Pass
		2652.5	25	0	4.541	/	Pass
10	QPSK	2560	50	0	9.097	/	Pass
		2605	50	0	9.044	/	Pass
		2650	50	0	9.092	/	Pass
	16QAM	2560	27	0	5.114	/	Pass
		2605	27	0	5.126	/	Pass
		2650	27	23	5.092	/	Pass
15	QPSK	2562.5	75	0	13.588	/	Pass
		2605	75	0	13.591	/	Pass
		2647.5	75	0	13.662	/	Pass
	16QAM	2562.5	27	0	5.366	/	Pass
		2605	27	0	5.380	/	Pass
		2647.5	27	48	5.325	/	Pass
20	QPSK	2565	100	0	18.186	/	Pass
		2605	100	0	18.132	/	Pass
		2645	100	0	18.195	/	Pass
	16QAM	2565	27	0	5.609	/	Pass
		2605	27	0	5.600	/	Pass
		2645	27	73	5.680	/	Pass

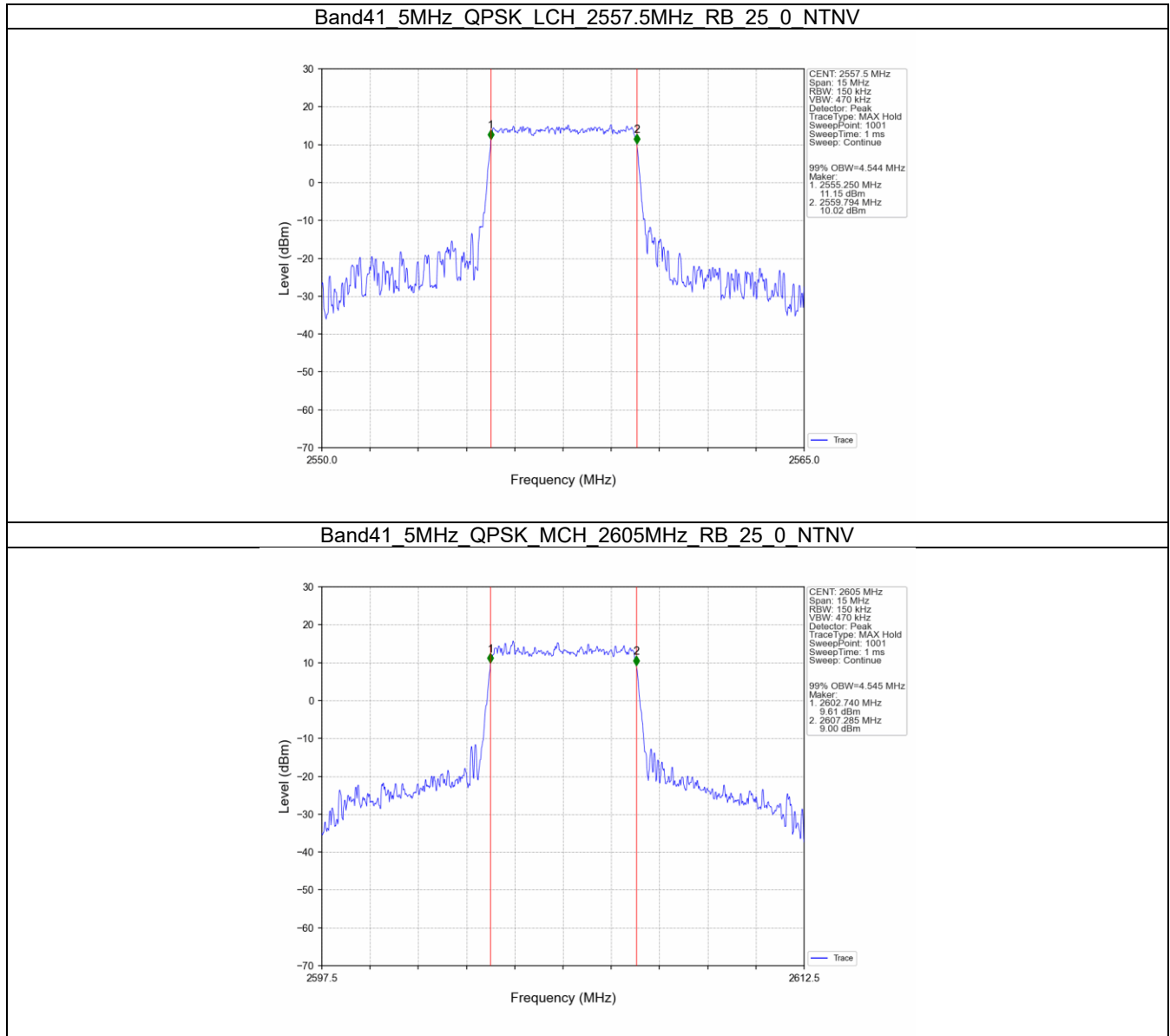
4.1.2 Band41_XDB

Band: 41 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2557.5	25	0	5.034	/	Pass
		2605	25	0	4.989	/	Pass
		2652.5	25	0	5.170	/	Pass
	16QAM	2557.5	25	0	5.038	/	Pass
		2605	25	0	5.348	/	Pass
		2652.5	25	0	5.010	/	Pass
10	QPSK	2560	50	0	9.963	/	Pass
		2605	50	0	9.944	/	Pass
		2650	50	0	10.830	/	Pass
	16QAM	2560	27	0	6.113	/	Pass
		2605	27	0	6.584	/	Pass
		2650	27	23	6.137	/	Pass
15	QPSK	2562.5	75	0	15.658	/	Pass
		2605	75	0	15.051	/	Pass
		2647.5	75	0	15.980	/	Pass
	16QAM	2562.5	27	0	6.652	/	Pass
		2605	27	0	9.329	/	Pass
		2647.5	27	48	6.629	/	Pass
20	QPSK	2565	100	0	19.769	/	Pass

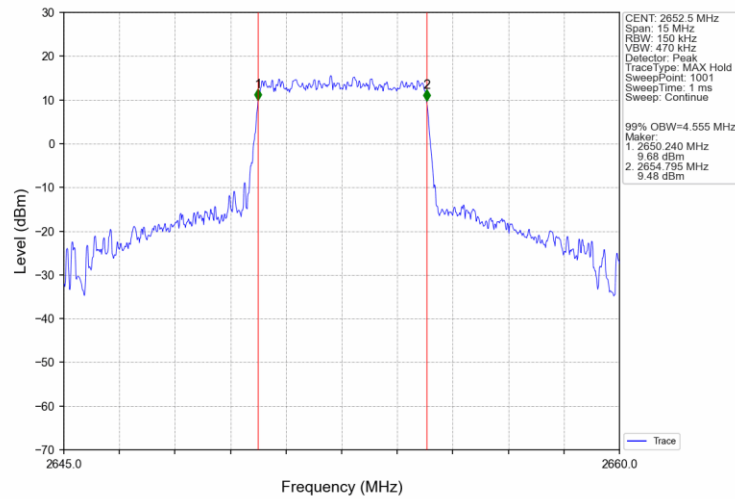
		2605	100	0	19.770	/	Pass
		2645	100	0	20.534	/	Pass
	16QAM	2565	27	0	7.289	/	Pass
		2605	27	0	8.460	/	Pass
		2645	27	73	8.251	/	Pass

4.2 Test Graph

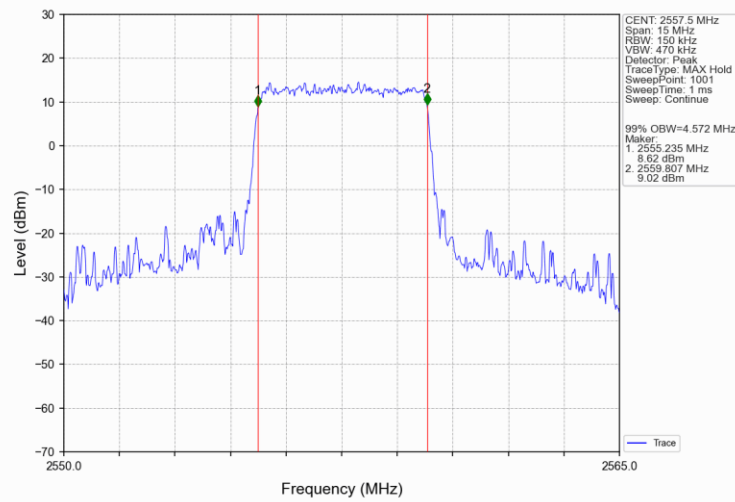
4.2.1 Band41_OBW



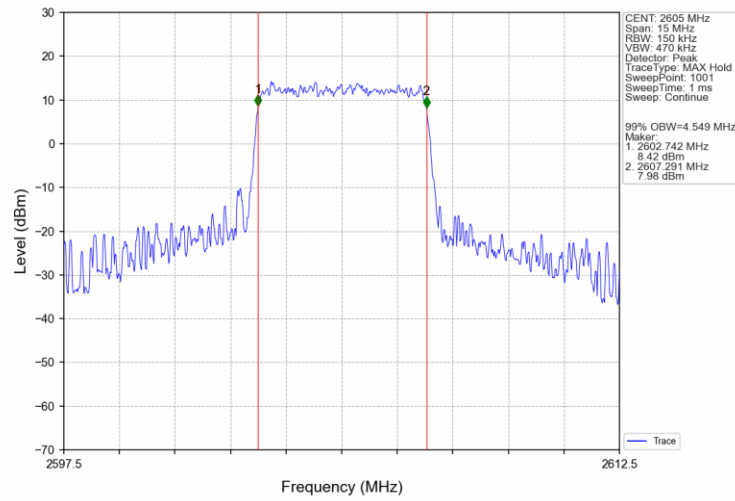
Band41 5MHz QPSK HCH 2652.5MHz RB 25 0 NTNV



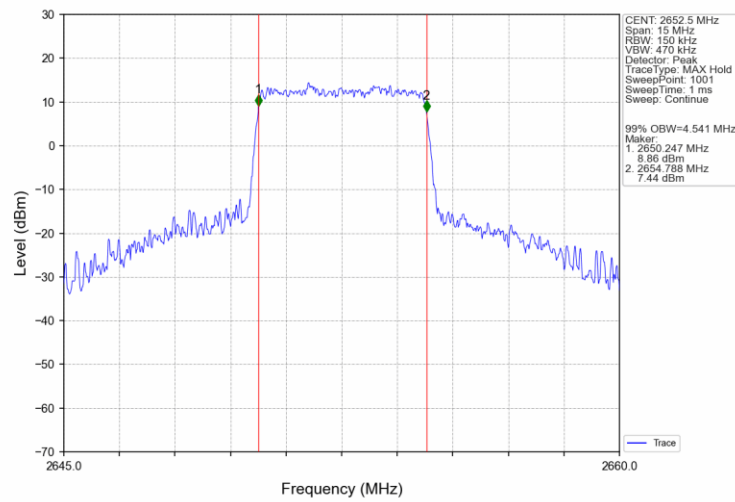
Band41 5MHz 16QAM LCH 2557.5MHz RB 25 0 NTNV



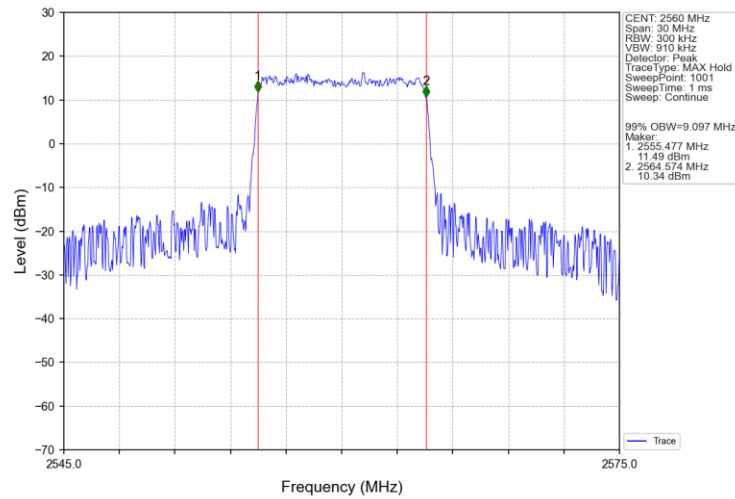
Band41_5MHz_16QAM_MCH_2605MHz_RB_25_0_NTNV



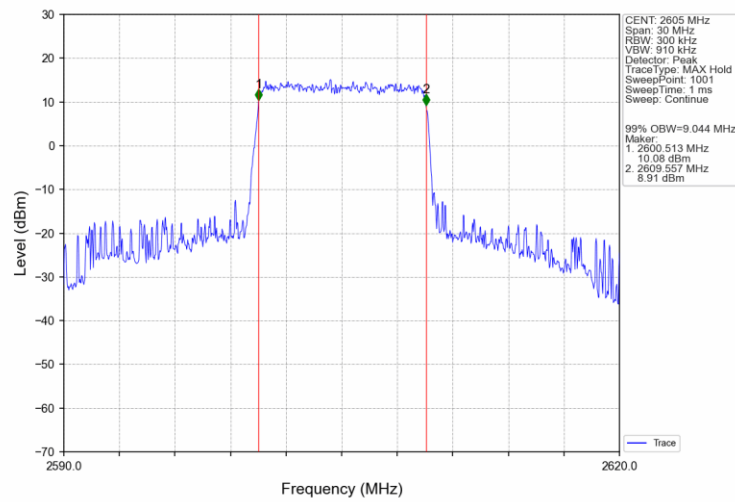
Band41_5MHz_16QAM_HCH_2652.5MHz_RB_25_0_NTNV



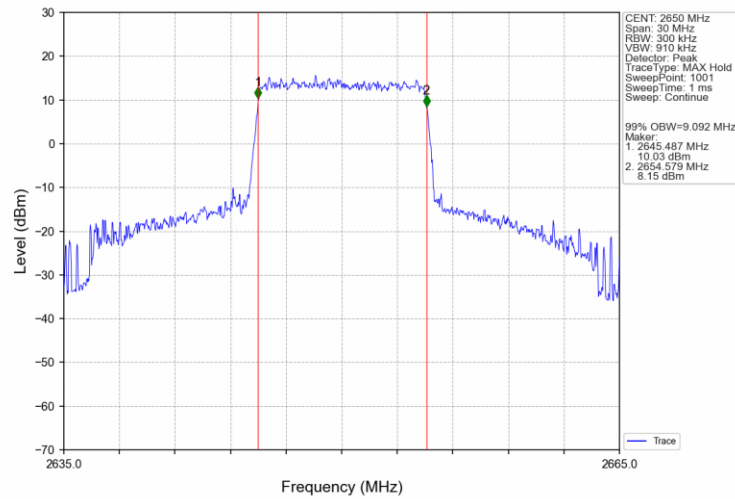
Band41 10MHz QPSK LCH 2560MHz RB 50 0 NTV



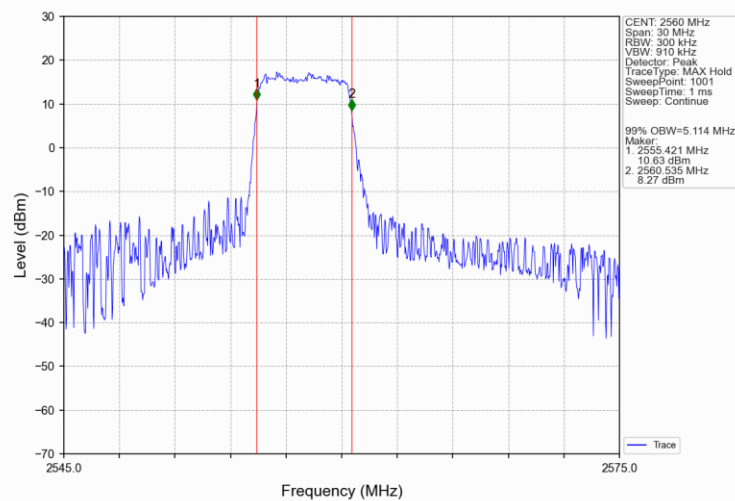
Band41 10MHz QPSK MCH 2605MHz RB 50 0 NTV



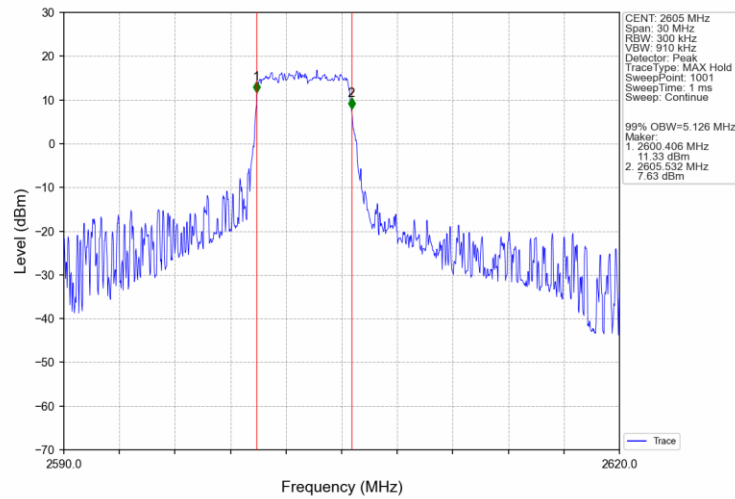
Band41 10MHz QPSK HCH 2650MHz RB 50 0 NTV



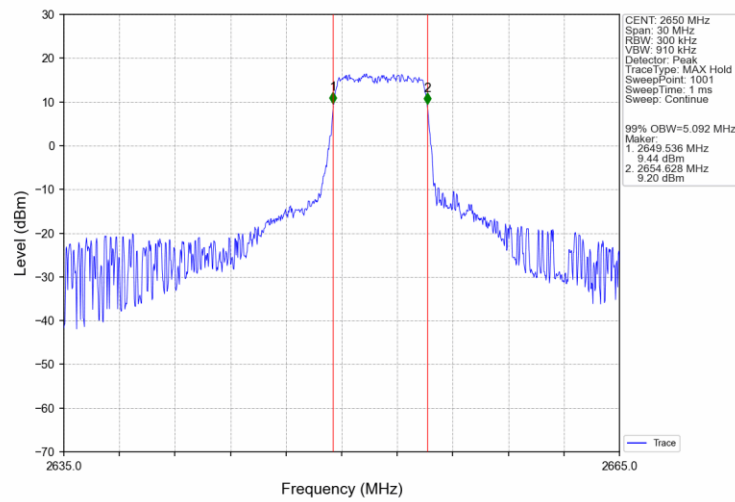
Band41 10MHz 16QAM LCH 2560MHz RB 27 0 NTV



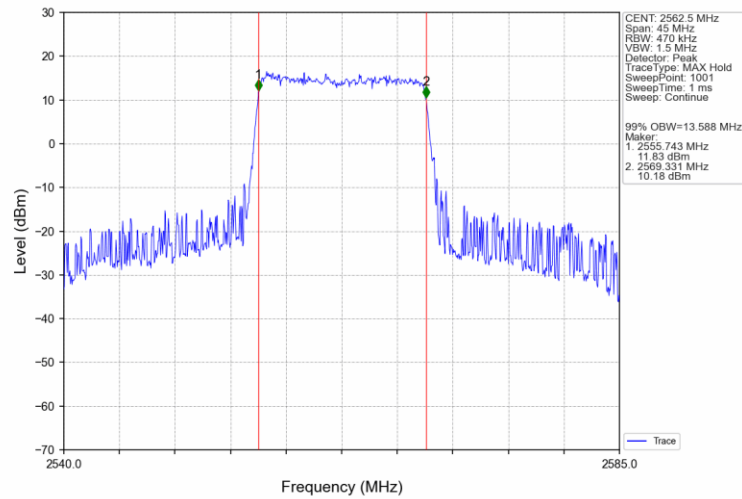
Band41 10MHz 16QAM MCH 2605MHz RB 27 0 NTN



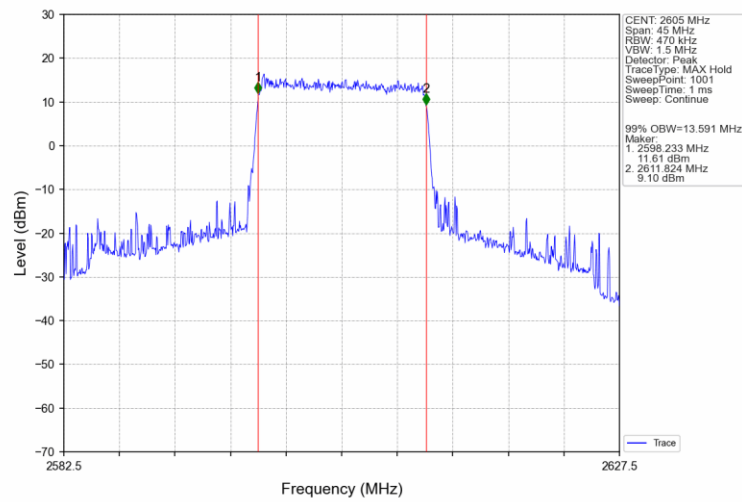
Band41 10MHz 16QAM HCH 2650MHz RB 27 23 NTN



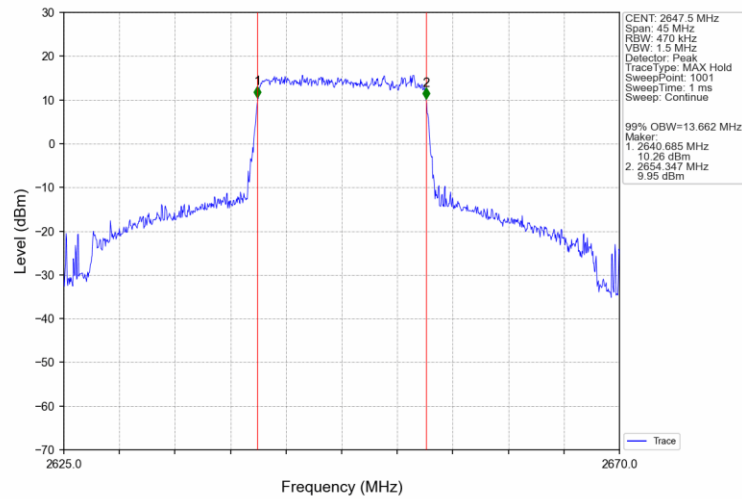
Band41 15MHz QPSK LCH 2562.5MHz RB 75 0 NTN



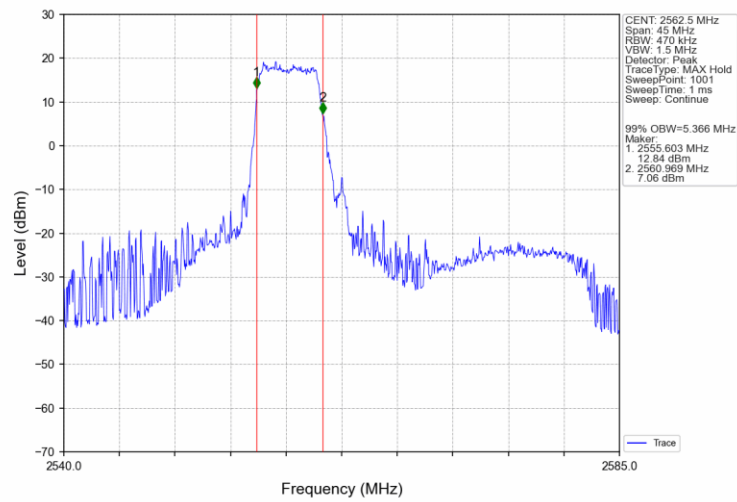
Band41 15MHz QPSK MCH 2605MHz RB 75 0 NTN



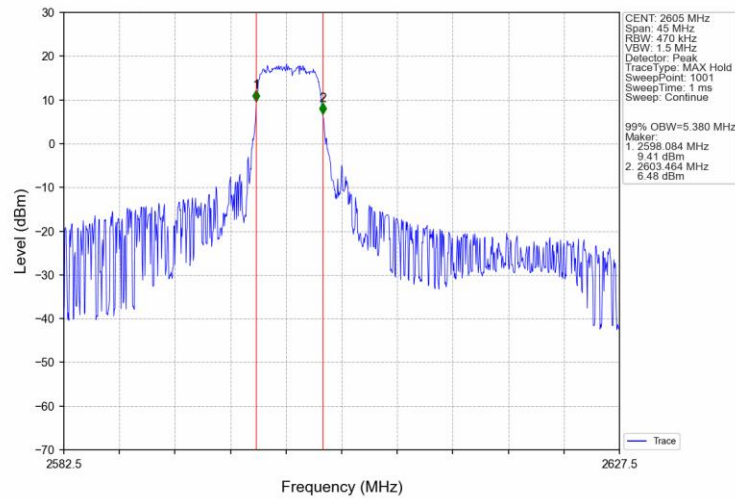
Band41 15MHz QPSK HCH 2647.5MHz RB 75 0 NTN



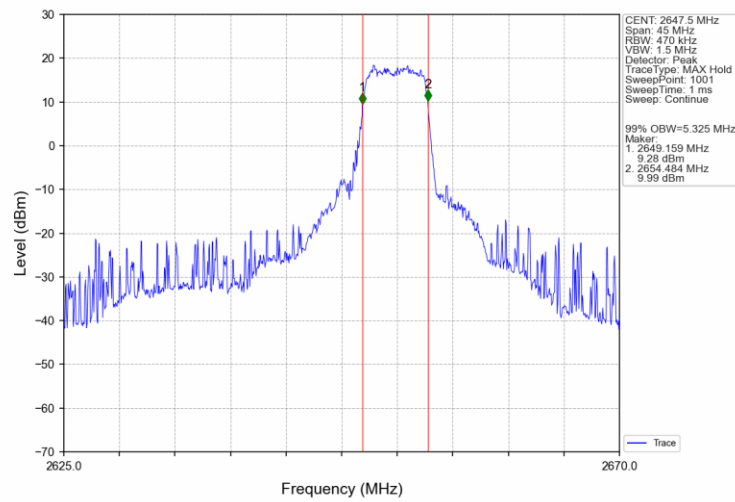
Band41 15MHz 16QAM LCH 2562.5MHz RB 27 0 NTN



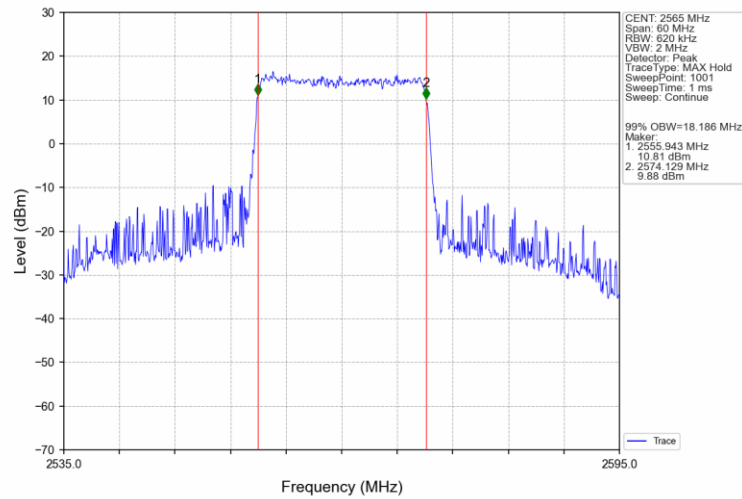
Band41 15MHz 16QAM MCH 2605MHz RB 27 0 NTNV



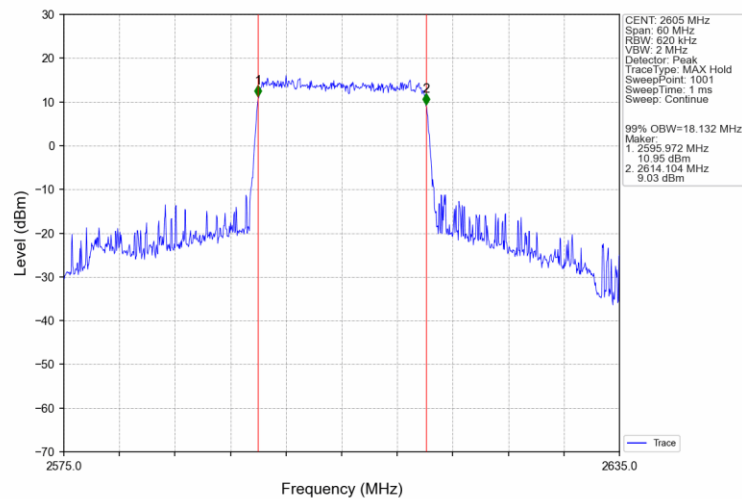
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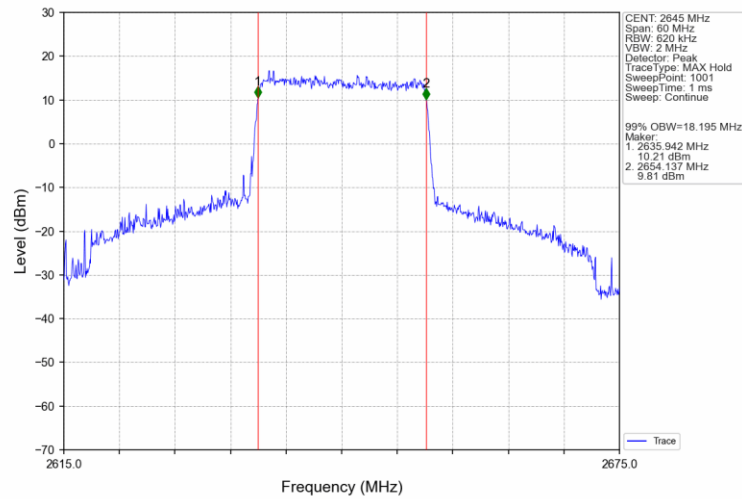
Band41 20MHz QPSK LCH 2565MHz RB 100 0 NTNV



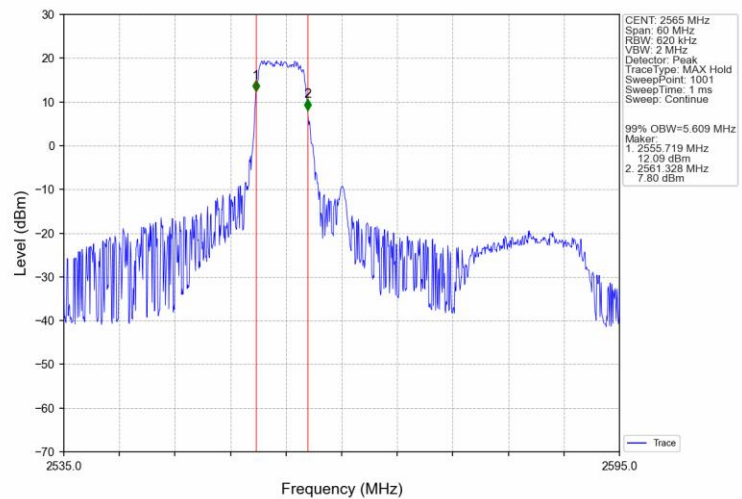
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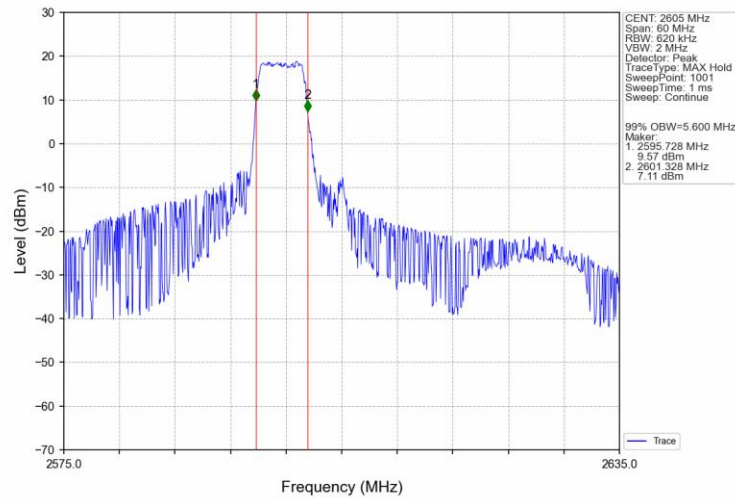
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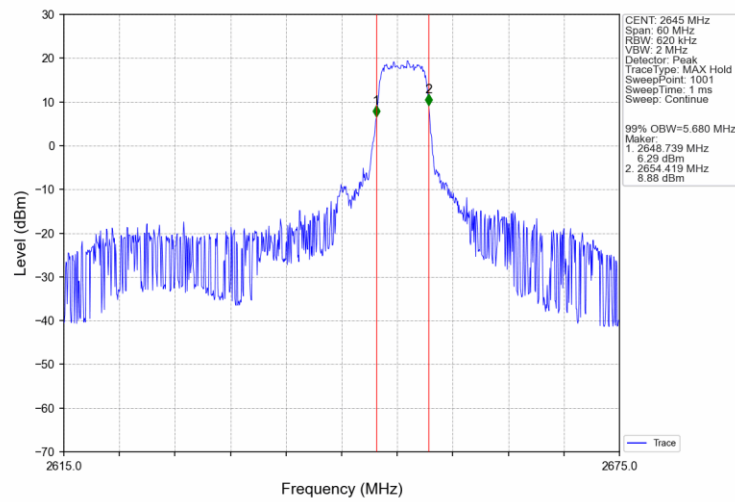
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Band41 20MHz 16QAM MCH 2605MHz RB 27 0 NTN

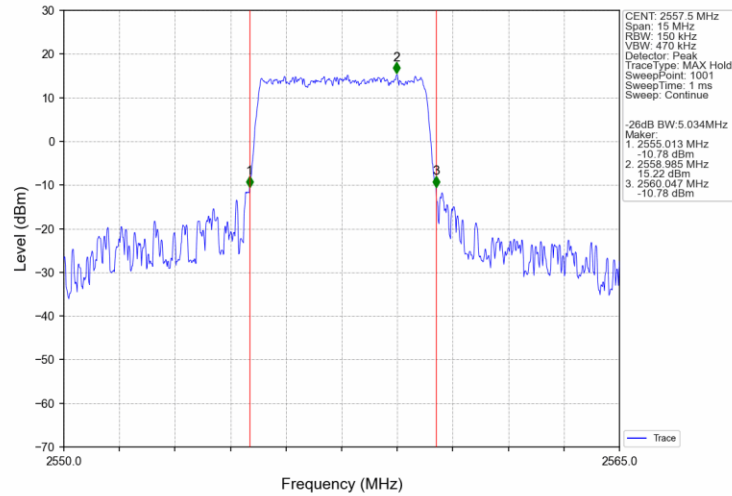


Band41 20MHz 16QAM HCH 2645MHz RB 27 73 NTN

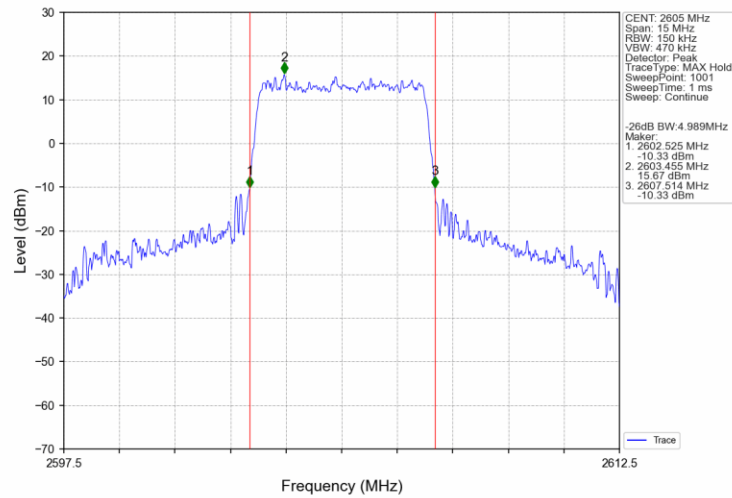


4.2.2 Band41_XDB

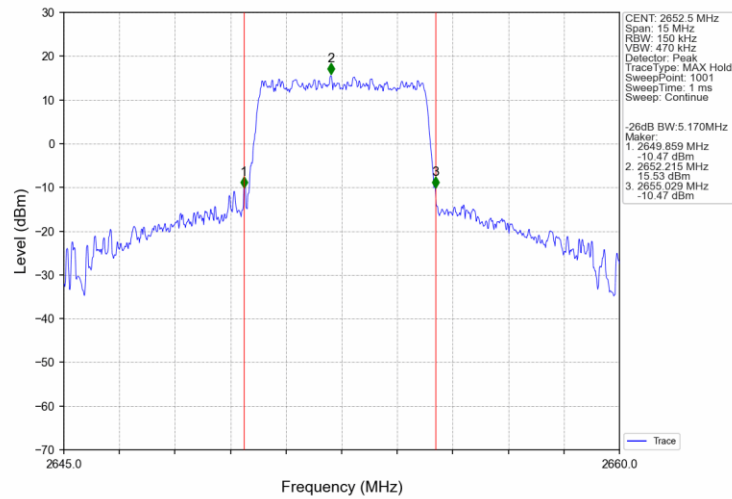
Band41_5MHz_QPSK_LCH_2557.5MHz_RB_25_0_NTNV



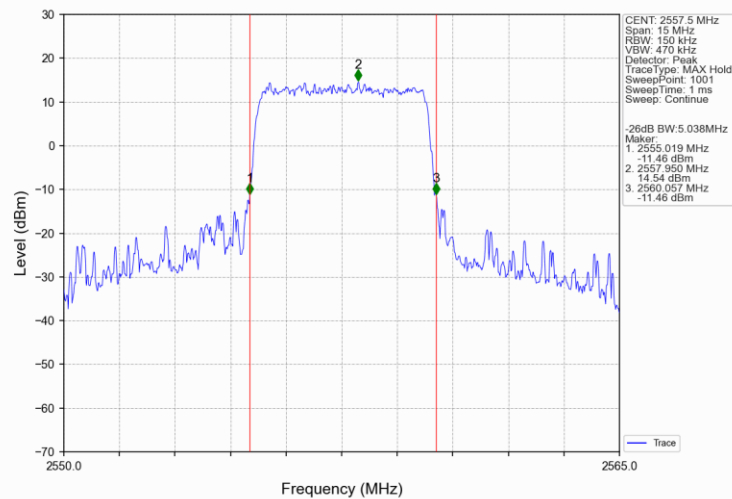
Band41_5MHz_QPSK_MCH_2605MHz_RB_25_0_NTNV



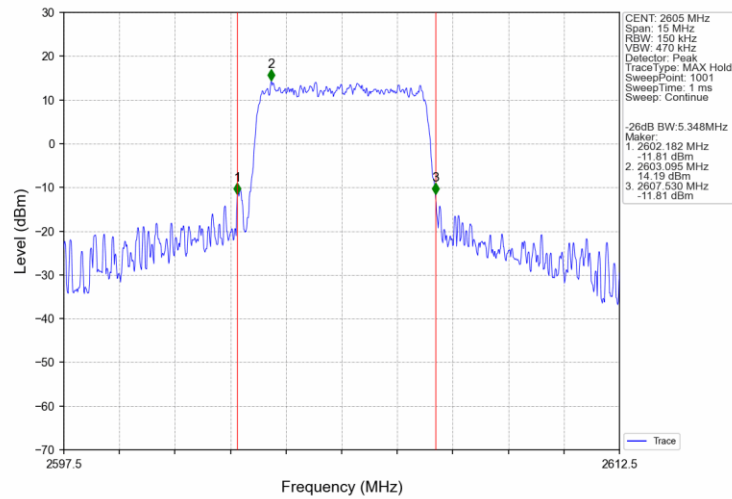
Band41 5MHz QPSK HCH 2652.5MHz RB 25 0 NTNV



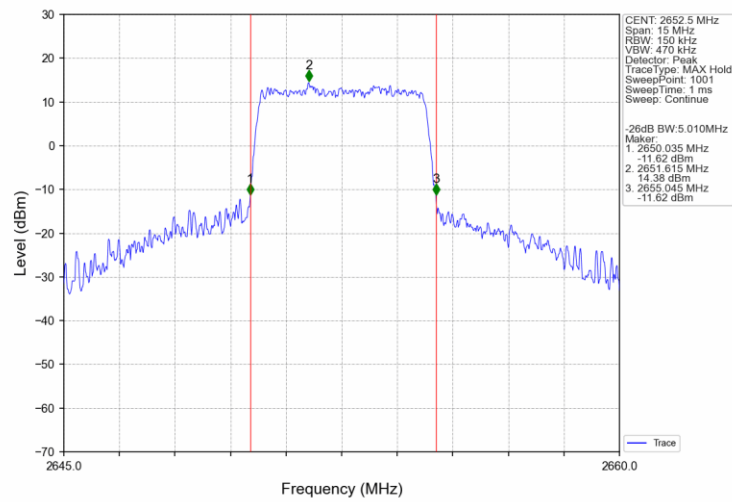
Band41 5MHz 16QAM LCH 2557.5MHz RB 25 0 NTNV



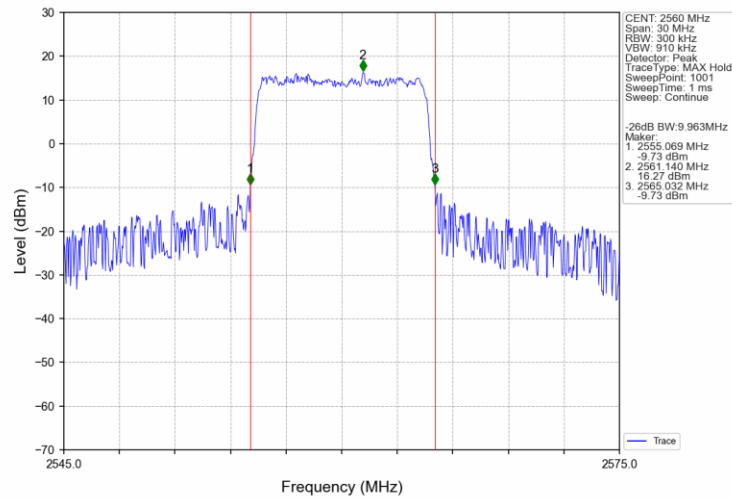
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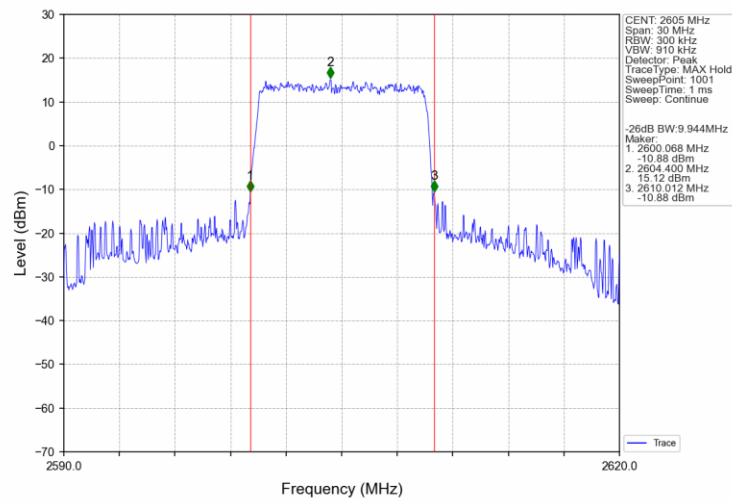
Band41_5MHz_16QAM_HCH_2652.5MHz_RB_25_0_NTNV



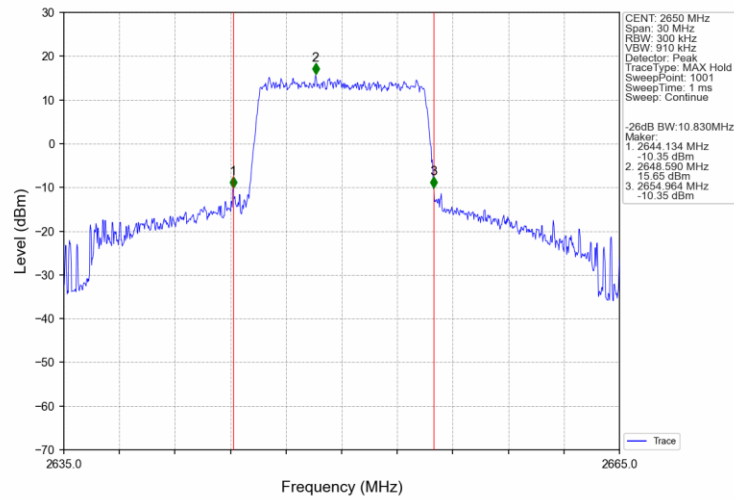
Band41 10MHz QPSK LCH 2560MHz RB 50 0 NTV



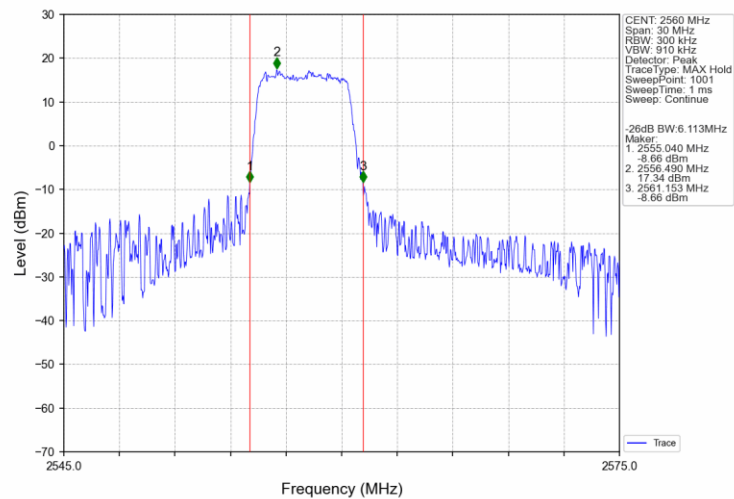
Band41 10MHz QPSK MCH 2605MHz RB 50 0 NTV



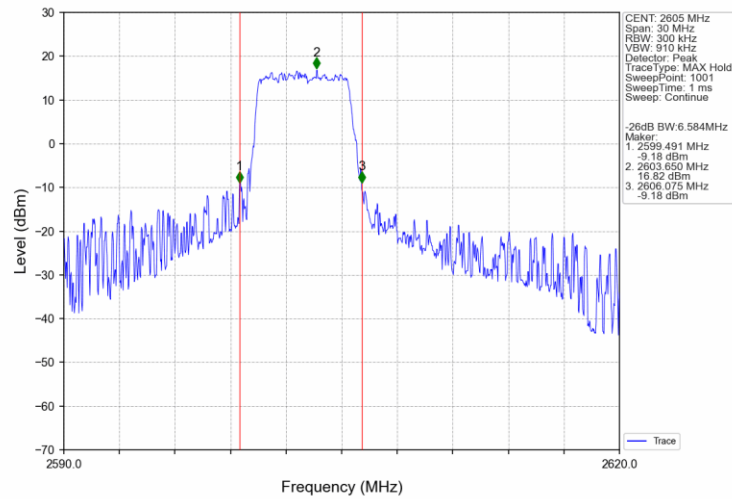
Band41 10MHz QPSK HCH 2650MHz RB 50 0 NTV



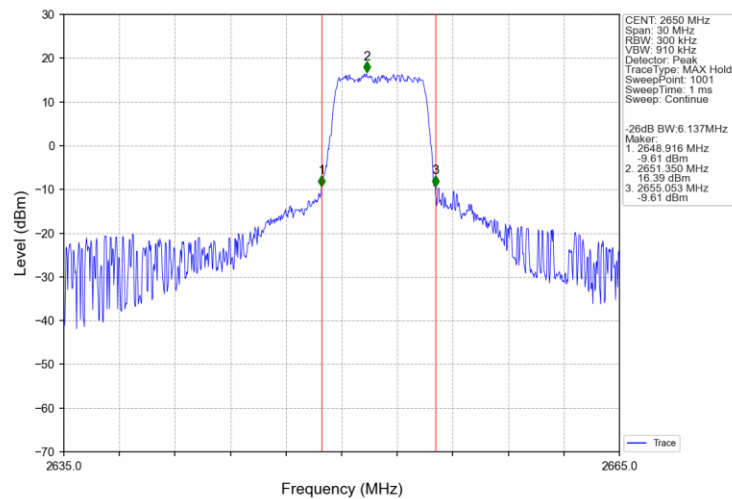
Band41 10MHz 16QAM LCH 2560MHz RB 27 0 NTV



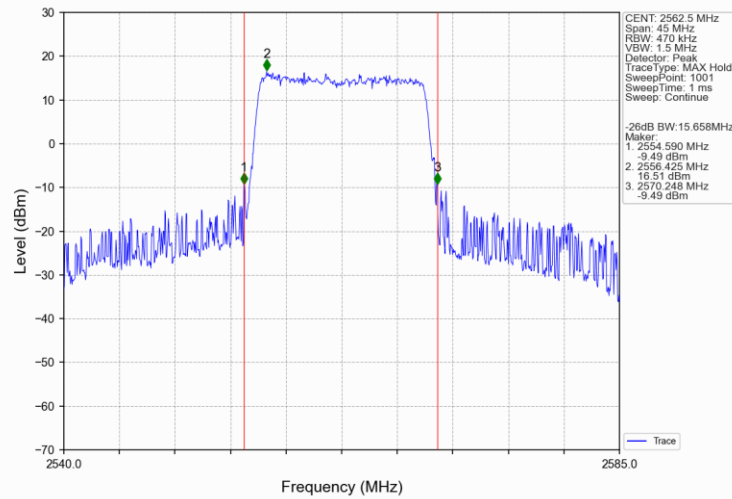
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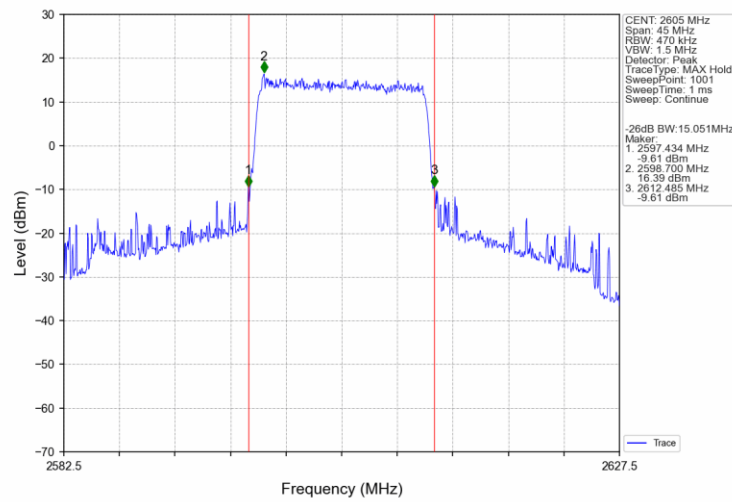
Band41 10MHz 16QAM HCH 2650MHz RB 27 23 NTN



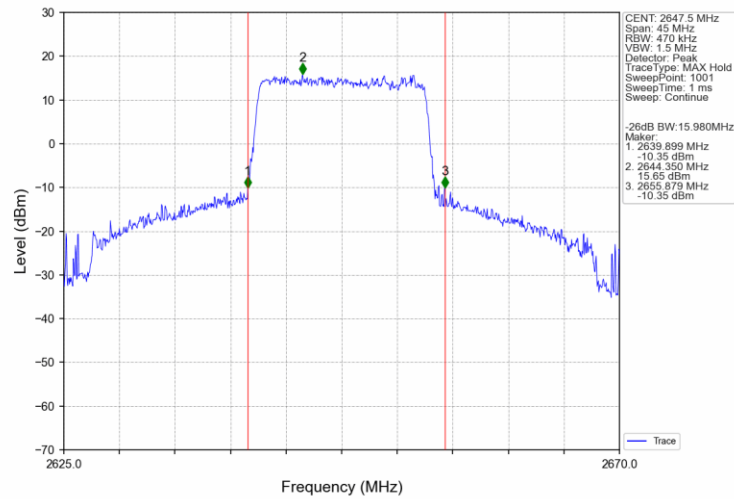
Band41 15MHz QPSK LCH 2562.5MHz RB 75 0 NTN



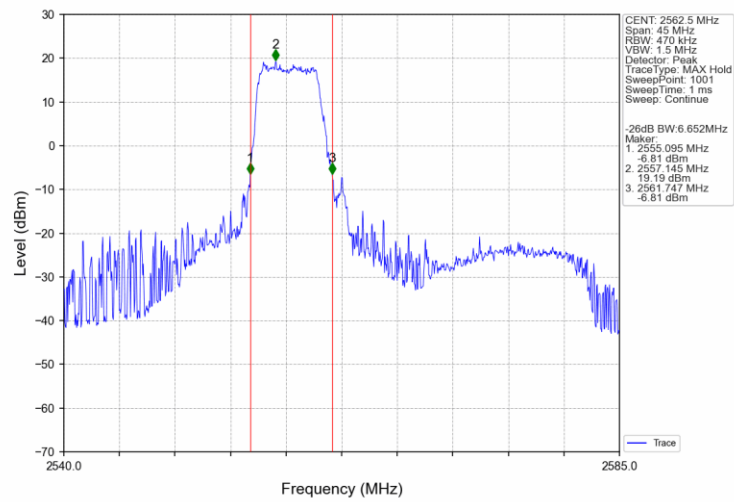
Band41 15MHz QPSK MCH 2605MHz RB 75 0 NTN



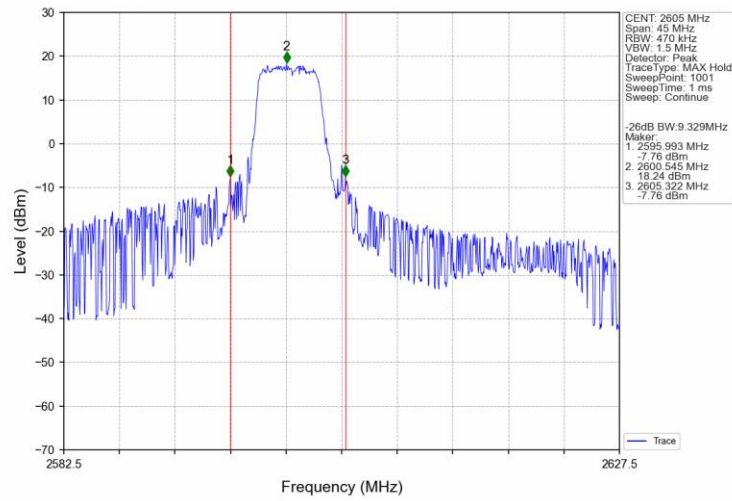
Band41_15MHz_QPSK_HCH_2647.5MHz_RB_75_0_NTNV



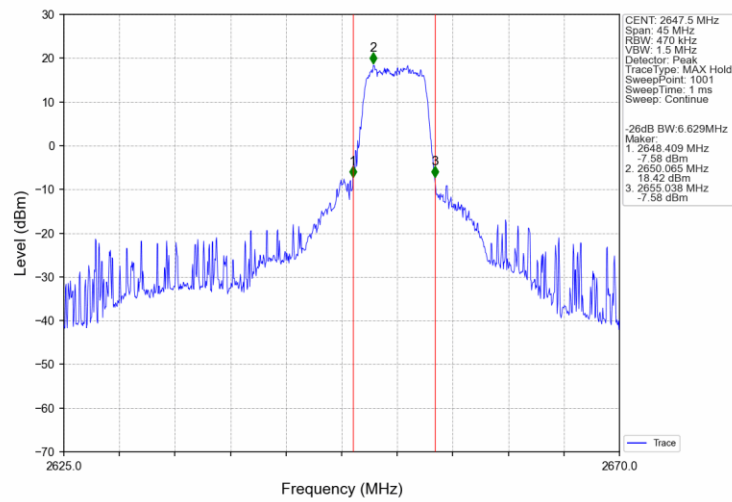
Band41_15MHz_16QAM_LCH_2562.5MHz_RB_27_0_NTNV



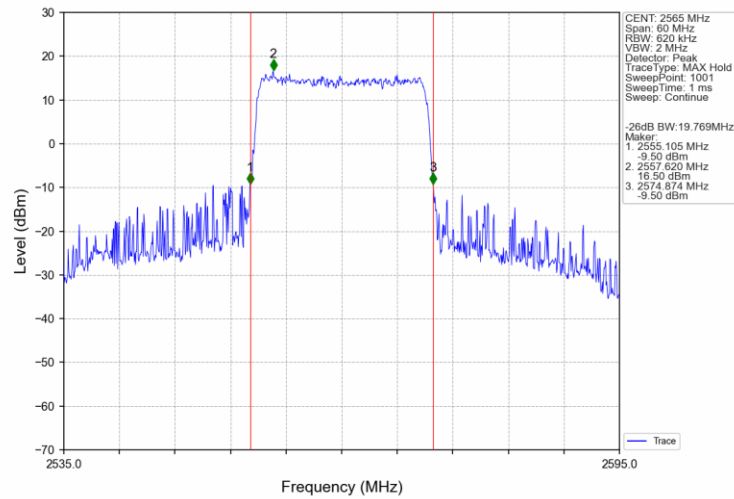
Band41 15MHz 16QAM MCH 2605MHz RB 27 0 NTN



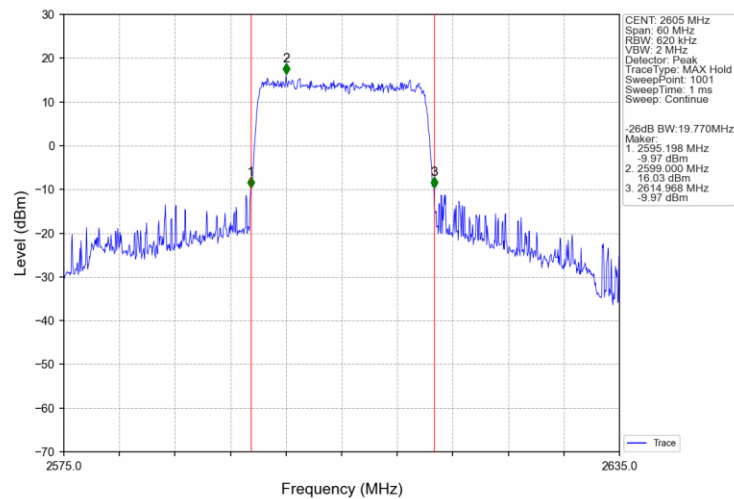
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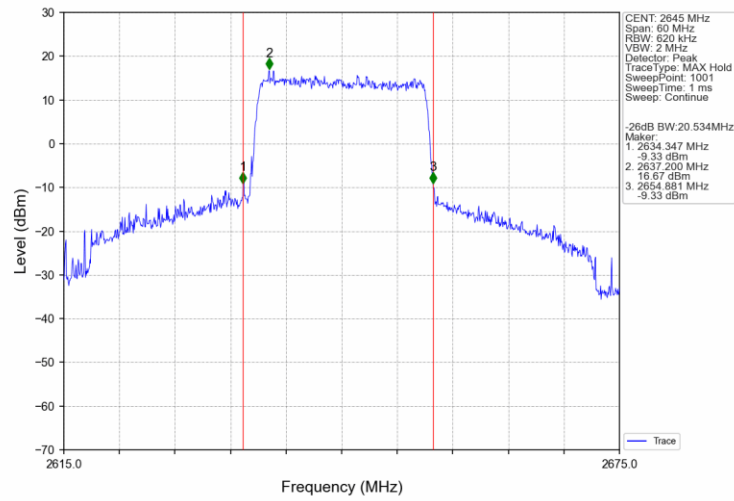
Band41 20MHz QPSK LCH 2565MHz RB 100 0 NTNV



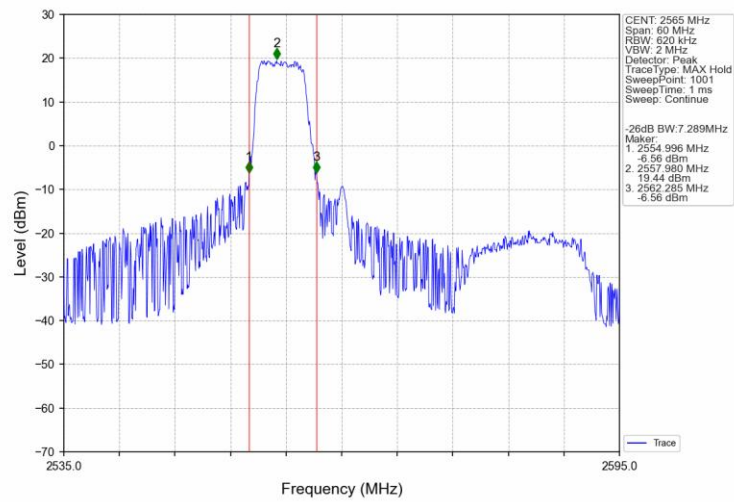
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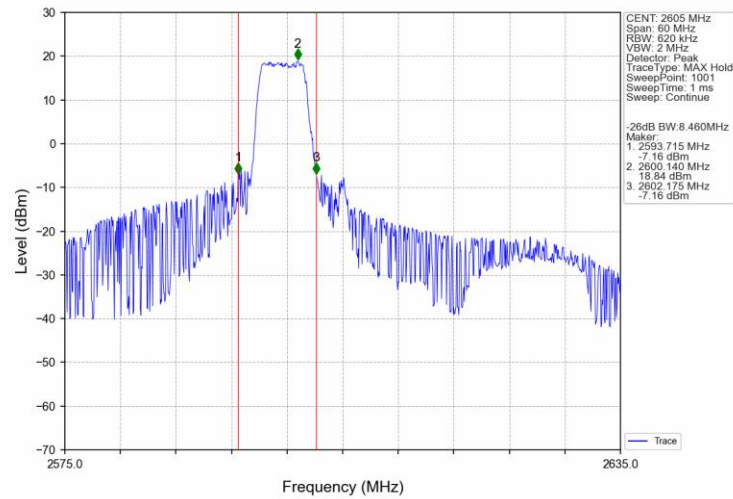
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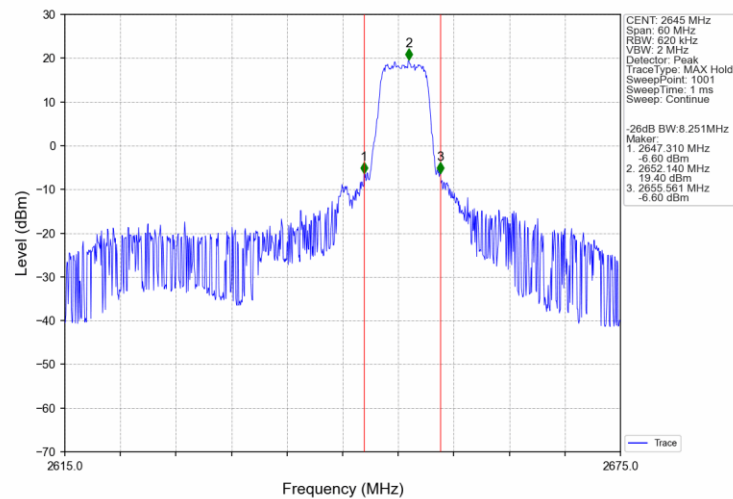
Band41 20MHz 16QAM LCH 2565MHz RB 27 0 NTNV



Band41 20MHz 16QAM MCH 2605MHz RB 27 0 NTN



Band41 20MHz 16QAM HCH 2645MHz RB 27 73 NTN



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	7.26	<=13	Pass
	2652.5	25	0	6.74	<=13	Pass
16QAM	2557.5	25	0	8.24	<=13	Pass
	2605	25	0	7.94	<=13	Pass
	2652.5	25	0	7.39	<=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	7.69	<=13	Pass
	2605	50	0	7.35	<=13	Pass
	2650	50	0	6.64	<=13	Pass
16QAM	2560	27	0	8.14	<=13	Pass
	2605	27	0	7.69	<=13	Pass
	2650	27	23	7.08	<=13	Pass

5.1.3 B41_15MHz

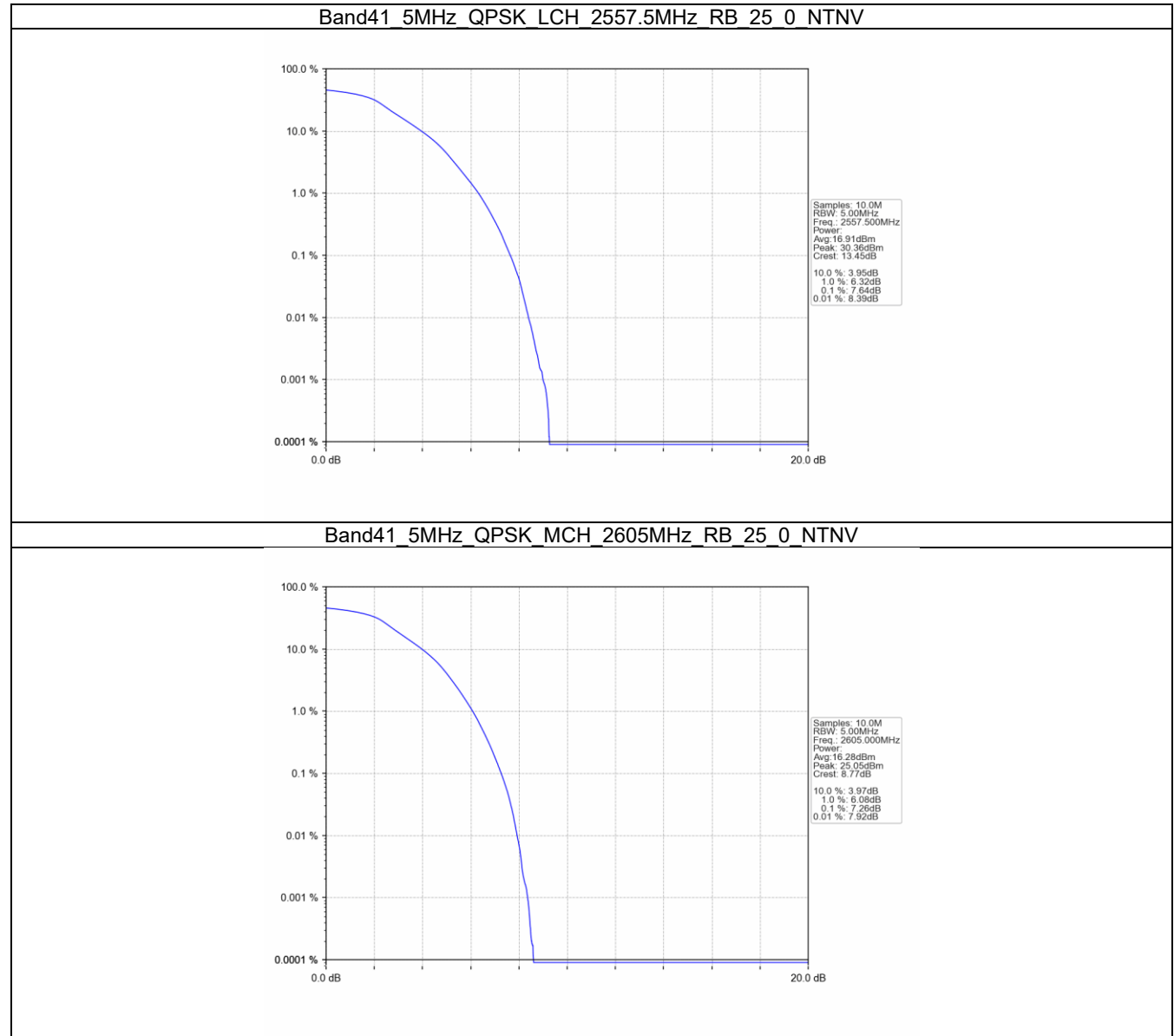
Band: 41 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2562.5	75	0	7.04	<=13	Pass
	2605	75	0	6.97	<=13	Pass
	2647.5	75	0	6.93	<=13	Pass
16QAM	2562.5	27	0	8.05	<=13	Pass
	2605	27	0	7.95	<=13	Pass
	2647.5	27	48	7.69	<=13	Pass

5.1.4 B41_20MHz

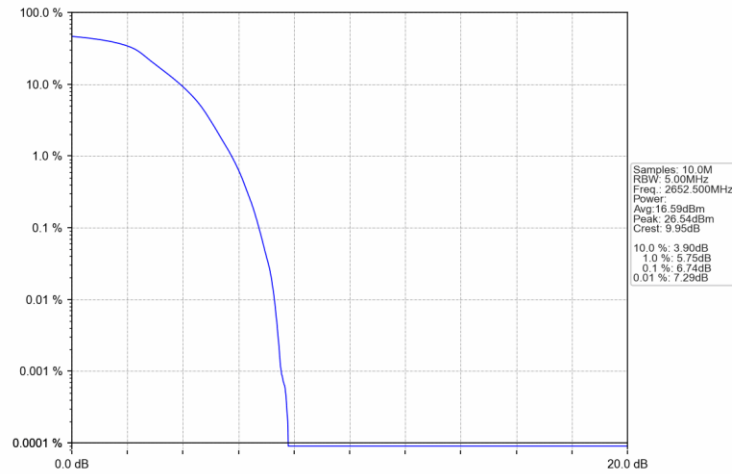
Band: 41 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2565	100	0	7.81	<=13	Pass
	2605	100	0	7.74	<=13	Pass
	2645	100	0	7.72	<=13	Pass
16QAM	2565	27	0	9.40	<=13	Pass
	2605	27	0	9.07	<=13	Pass
	2645	27	73	8.99	<=13	Pass

5.2 Test Graph

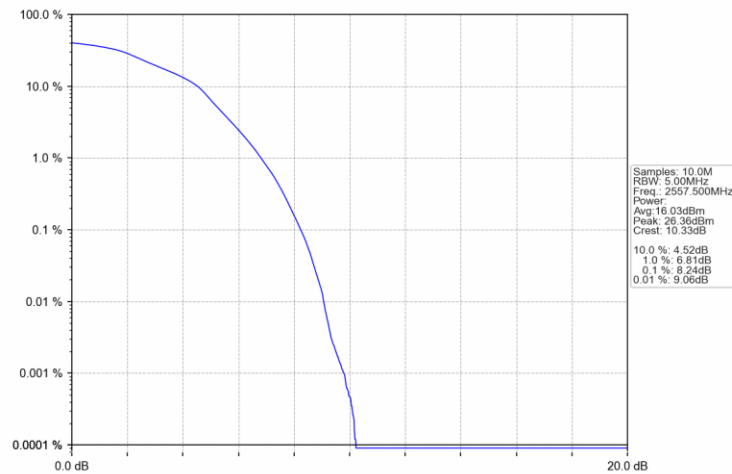
5.2.1 B41_5MHz



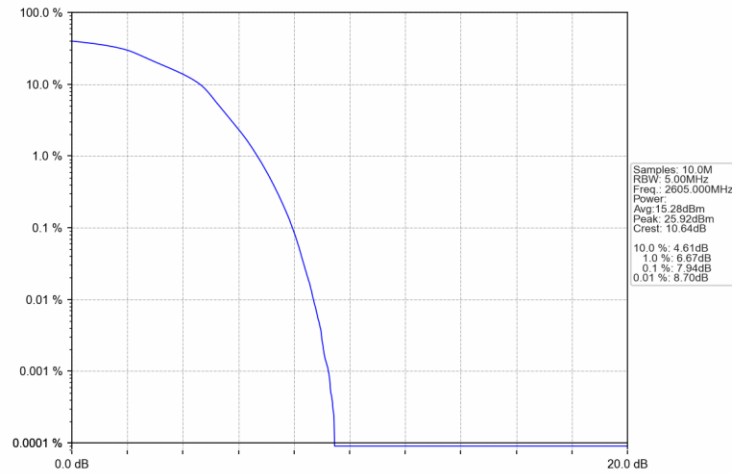
Band41 5MHz QPSK HCH 2652.5MHz RB 25 0 NTNV



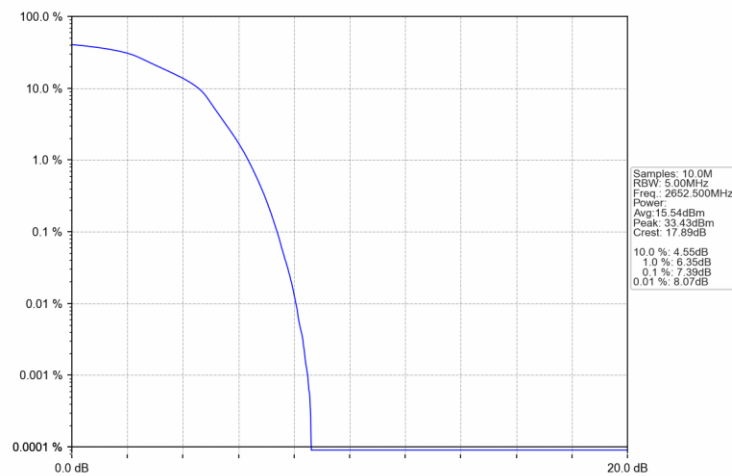
Band41 5MHz 16QAM LCH 2557.5MHz RB 25 0 NTNV



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

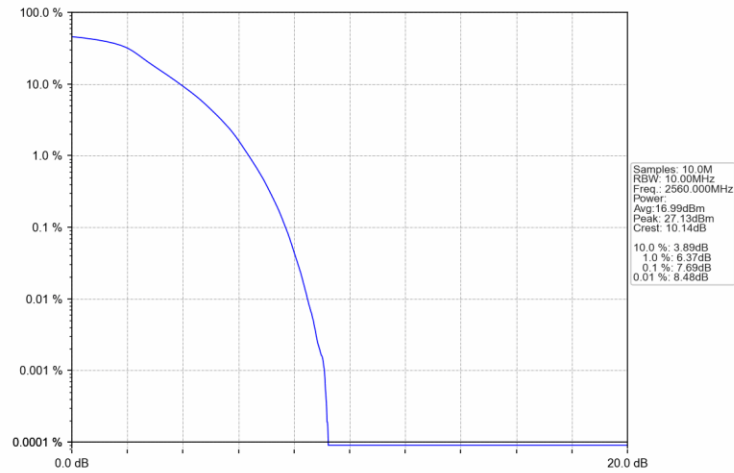


Band41 5MHz 16QAM HCH 2652.5MHz RB 25 0 NTNV

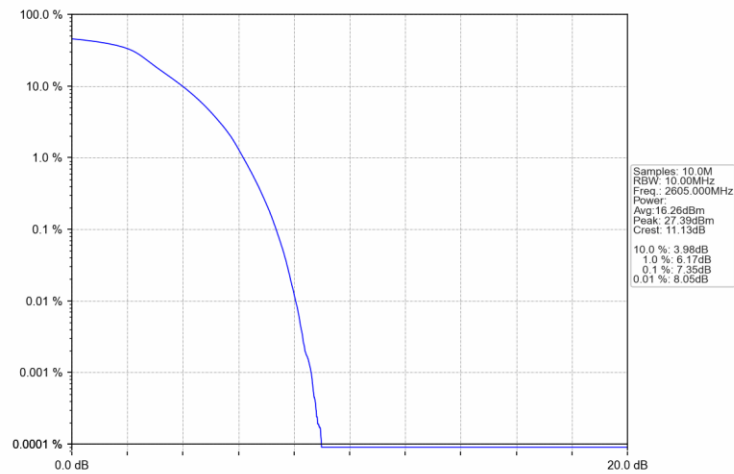


5.2.2 B41_10MHz

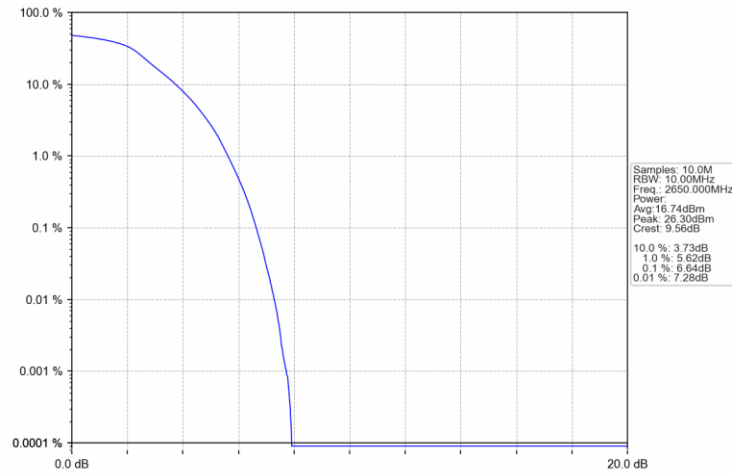
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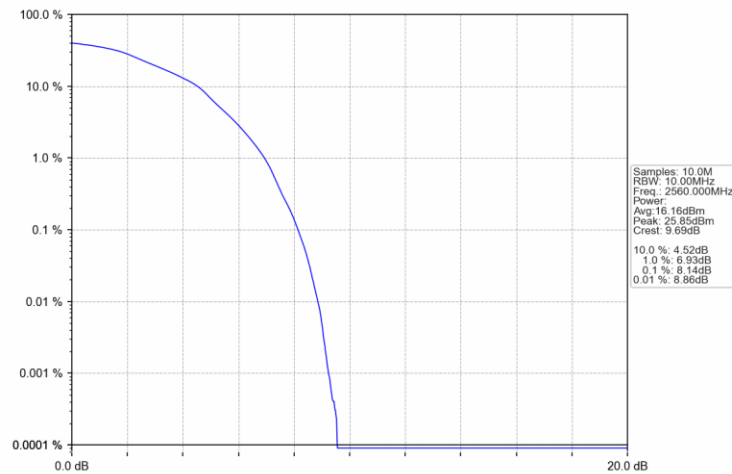
Band41_10MHz_QPSK_MCH_2605MHz_RB_50_0_NTNV



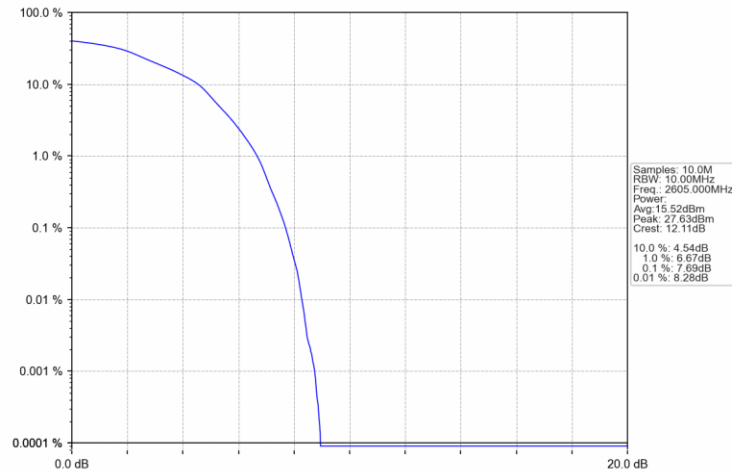
Band41 10MHz QPSK HCH 2650MHz RB 50 0 NTNV



Band41 10MHz 16QAM LCH 2560MHz RB 27 0 NTNV



Band41 10MHz 16QAM MCH 2605MHz RB 27 0 NTN



Band41 10MHz 16QAM HCH 2650MHz RB 27 23 NTN

