

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	22.14	1.30	23.44	<=33.01	Pass
			13	22.12	1.30	23.42	<=33.01	Pass
			24	22.16	1.30	23.46	<=33.01	Pass
		12	0	21.68	1.30	22.98	<=33.01	Pass
			6	21.63	1.30	22.93	<=33.01	Pass
			13	21.56	1.30	22.86	<=33.01	Pass
		25	0	21.63	1.30	22.93	<=33.01	Pass
	2605	1	0	22.15	1.30	23.45	<=33.01	Pass
			13	22.29	1.30	23.59	<=33.01	Pass
			24	22.36	1.30	23.66	<=33.01	Pass
		12	0	21.75	1.30	23.05	<=33.01	Pass
			6	21.71	1.30	23.01	<=33.01	Pass
			13	21.71	1.30	23.01	<=33.01	Pass
		25	0	21.80	1.30	23.10	<=33.01	Pass
	2652.5	1	0	23.01	1.30	24.31	<=33.01	Pass
			13	23.04	1.30	24.34	<=33.01	Pass
			24	23.08	1.30	24.38	<=33.01	Pass
		12	0	22.46	1.30	23.76	<=33.01	Pass
			6	22.44	1.30	23.74	<=33.01	Pass
			13	22.48	1.30	23.78	<=33.01	Pass
		25	0	22.42	1.30	23.72	<=33.01	Pass
16QAM	2557.5	1	0	21.36	1.30	22.66	<=33.01	Pass
			13	21.18	1.30	22.48	<=33.01	Pass
			24	21.20	1.30	22.50	<=33.01	Pass
		12	0	20.65	1.30	21.95	<=33.01	Pass
			6	20.61	1.30	21.91	<=33.01	Pass
			13	20.56	1.30	21.86	<=33.01	Pass
		25	0	20.61	1.30	21.91	<=33.01	Pass
	2605	1	0	20.98	1.30	22.28	<=33.01	Pass
			13	21.26	1.30	22.56	<=33.01	Pass
			24	21.46	1.30	22.76	<=33.01	Pass
		12	0	20.75	1.30	22.05	<=33.01	Pass
			6	20.81	1.30	22.11	<=33.01	Pass
			13	20.74	1.30	22.04	<=33.01	Pass
		25	0	20.75	1.30	22.05	<=33.01	Pass
	2652.5	1	0	22.18	1.30	23.48	<=33.01	Pass
			13	21.94	1.30	23.24	<=33.01	Pass
			24	21.96	1.30	23.26	<=33.01	Pass
		12	0	21.41	1.30	22.71	<=33.01	Pass
			6	21.46	1.30	22.76	<=33.01	Pass
			13	21.39	1.30	22.69	<=33.01	Pass
		25	0	21.52	1.30	22.82	<=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	22.62	1.30	23.92	<=33.01	Pass
			25	22.63	1.30	23.93	<=33.01	Pass
			49	22.64	1.30	23.94	<=33.01	Pass
		25	0	21.57	1.30	22.87	<=33.01	Pass
			13	21.55	1.30	22.85	<=33.01	Pass
			25	21.63	1.30	22.93	<=33.01	Pass
		50	0	21.64	1.30	22.94	<=33.01	Pass
	2605	1	0	22.36	1.30	23.66	<=33.01	Pass
			25	22.52	1.30	23.82	<=33.01	Pass
			49	22.43	1.30	23.73	<=33.01	Pass
		25	0	21.71	1.30	23.01	<=33.01	Pass
			13	21.74	1.30	23.04	<=33.01	Pass
			25	21.77	1.30	23.07	<=33.01	Pass
		50	0	21.84	1.30	23.14	<=33.01	Pass
	2650	1	0	22.92	1.30	24.22	<=33.01	Pass
			25	23.05	1.30	24.35	<=33.01	Pass
			49	23.03	1.30	24.33	<=33.01	Pass
		25	0	22.40	1.30	23.70	<=33.01	Pass
			13	22.41	1.30	23.71	<=33.01	Pass
			25	22.47	1.30	23.77	<=33.01	Pass
		50	0	22.44	1.30	23.74	<=33.01	Pass
16QAM	2560	1	0	20.94	1.30	22.24	<=33.01	Pass
			25	21.49	1.30	22.79	<=33.01	Pass
			49	21.50	1.30	22.80	<=33.01	Pass
		25	0	20.55	1.30	21.85	<=33.01	Pass
			13	20.57	1.30	21.87	<=33.01	Pass
			25	20.56	1.30	21.86	<=33.01	Pass
		50	0	20.58	1.30	21.88	<=33.01	Pass
	2605	1	0	21.09	1.30	22.39	<=33.01	Pass
			25	21.25	1.30	22.55	<=33.01	Pass
			49	21.18	1.30	22.48	<=33.01	Pass
		25	0	20.79	1.30	22.09	<=33.01	Pass
			13	20.74	1.30	22.04	<=33.01	Pass
			25	20.79	1.30	22.09	<=33.01	Pass
		50	0	20.76	1.30	22.06	<=33.01	Pass
	2650	1	0	21.96	1.30	23.26	<=33.01	Pass
			25	21.99	1.30	23.29	<=33.01	Pass
			49	21.85	1.30	23.15	<=33.01	Pass
		25	0	21.40	1.30	22.70	<=33.01	Pass
			13	21.46	1.30	22.76	<=33.01	Pass
			25	21.49	1.30	22.79	<=33.01	Pass
		50	0	21.41	1.30	22.71	<=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	22.55	1.30	23.85	<=33.01	Pass
			38	22.64	1.30	23.94	<=33.01	Pass
			74	22.64	1.30	23.94	<=33.01	Pass
		36	0	21.54	1.30	22.84	<=33.01	Pass
			18	21.56	1.30	22.86	<=33.01	Pass
			39	21.55	1.30	22.85	<=33.01	Pass
		75	0	21.58	1.30	22.88	<=33.01	Pass
	2605	1	0	22.59	1.30	23.89	<=33.01	Pass
			38	22.74	1.30	24.04	<=33.01	Pass

16QAM	2647.5	36	74	22.54	1.30	23.84	<=33.01	Pass
			0	21.67	1.30	22.97	<=33.01	Pass
			18	21.71	1.30	23.01	<=33.01	Pass
			39	21.75	1.30	23.05	<=33.01	Pass
		75	0	21.74	1.30	23.04	<=33.01	Pass
			0	23.17	1.30	24.47	<=33.01	Pass
			38	23.19	1.30	24.49	<=33.01	Pass
			74	23.06	1.30	24.36	<=33.01	Pass
		36	0	22.29	1.30	23.59	<=33.01	Pass
			18	22.31	1.30	23.61	<=33.01	Pass
			39	22.33	1.30	23.63	<=33.01	Pass
			0	22.35	1.30	23.65	<=33.01	Pass
	2562.5	1	0	21.35	1.30	22.65	<=33.01	Pass
			38	21.59	1.30	22.89	<=33.01	Pass
			74	21.83	1.30	23.13	<=33.01	Pass
			0	20.55	1.30	21.85	<=33.01	Pass
		36	18	20.55	1.30	21.85	<=33.01	Pass
			39	20.57	1.30	21.87	<=33.01	Pass
			0	20.55	1.30	21.85	<=33.01	Pass
			0	20.96	1.30	22.26	<=33.01	Pass
		1	38	21.35	1.30	22.65	<=33.01	Pass
			74	21.26	1.30	22.56	<=33.01	Pass
			0	20.72	1.30	22.02	<=33.01	Pass
			18	20.72	1.30	22.02	<=33.01	Pass
	2605	36	39	20.77	1.30	22.07	<=33.01	Pass
			0	20.72	1.30	22.02	<=33.01	Pass
			0	22.00	1.30	23.30	<=33.01	Pass
		1	38	22.11	1.30	23.41	<=33.01	Pass
			74	21.98	1.30	23.28	<=33.01	Pass
			0	21.31	1.30	22.61	<=33.01	Pass
			18	21.34	1.30	22.64	<=33.01	Pass
		36	39	21.42	1.30	22.72	<=33.01	Pass
			0	21.33	1.30	22.63	<=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	22.44	1.30	23.74	<=33.01	Pass
			50	22.58	1.30	23.88	<=33.01	Pass
			99	22.49	1.30	23.79	<=33.01	Pass
		50	0	21.59	1.30	22.89	<=33.01	Pass
			25	21.60	1.30	22.90	<=33.01	Pass
			50	21.60	1.30	22.90	<=33.01	Pass
		100	0	21.56	1.30	22.86	<=33.01	Pass
			0	22.56	1.30	23.86	<=33.01	Pass
			50	22.65	1.30	23.95	<=33.01	Pass
		1	99	22.42	1.30	23.72	<=33.01	Pass
			0	21.65	1.30	22.95	<=33.01	Pass
			25	21.79	1.30	23.09	<=33.01	Pass
	2605	50	50	21.84	1.30	23.14	<=33.01	Pass
			0	21.74	1.30	23.04	<=33.01	Pass
			0	22.89	1.30	24.19	<=33.01	Pass
		1	50	23.08	1.30	24.38	<=33.01	Pass
			99	23.18	1.30	24.48	<=33.01	Pass
			0	22.28	1.30	23.58	<=33.01	Pass



16QAM	2565	100	25	22.35	1.30	23.65	<=33.01	Pass
			50	22.37	1.30	23.67	<=33.01	Pass
			0	22.32	1.30	23.62	<=33.01	Pass
		1	0	21.57	1.30	22.87	<=33.01	Pass
			50	21.22	1.30	22.52	<=33.01	Pass
			99	21.79	1.30	23.09	<=33.01	Pass
		50	0	20.64	1.30	21.94	<=33.01	Pass
			25	20.60	1.30	21.90	<=33.01	Pass
			50	20.59	1.30	21.89	<=33.01	Pass
		100	0	20.61	1.30	21.91	<=33.01	Pass
	2605	1	0	21.05	1.30	22.35	<=33.01	Pass
			50	21.31	1.30	22.61	<=33.01	Pass
			99	21.56	1.30	22.86	<=33.01	Pass
		50	0	20.65	1.30	21.95	<=33.01	Pass
			25	20.81	1.30	22.11	<=33.01	Pass
			50	20.82	1.30	22.12	<=33.01	Pass
		100	0	20.73	1.30	22.03	<=33.01	Pass
	2645	1	0	21.86	1.30	23.16	<=33.01	Pass
			50	22.09	1.30	23.39	<=33.01	Pass
			99	22.04	1.30	23.34	<=33.01	Pass
		50	0	21.28	1.30	22.58	<=33.01	Pass
			25	21.37	1.30	22.67	<=33.01	Pass
			50	21.38	1.30	22.68	<=33.01	Pass
		100	0	21.32	1.30	22.62	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain

2. Frequency Stability

2.1 Test Result

2.1.1 B41_5MHz

Band: 41 / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2557.5	25	0	20	3.27	-1.488	-0.0006	-2.5 to 2.5	Pass
					3.85	0.587	0.0002	-2.5 to 2.5	Pass
					4.43	-5.736	-0.0022	-2.5 to 2.5	Pass
				-30	3.85	-0.186	-0.0001	-2.5 to 2.5	Pass
				-20	3.85	-1.917	-0.0007	-2.5 to 2.5	Pass
				-10	3.85	-2.961	-0.0012	-2.5 to 2.5	Pass
				0	3.85	-3.648	-0.0014	-2.5 to 2.5	Pass
				10	3.85	-0.958	-0.0004	-2.5 to 2.5	Pass
				30	3.85	-4.020	-0.0016	-2.5 to 2.5	Pass
				40	3.85	5.093	0.0020	-2.5 to 2.5	Pass
	2605	25	0	20	3.85	0.801	0.0003	-2.5 to 2.5	Pass
					3.27	9.112	0.0035	-2.5 to 2.5	Pass
					3.85	2.403	0.0009	-2.5 to 2.5	Pass
				-30	4.43	-8.168	-0.0031	-2.5 to 2.5	Pass
					3.85	3.319	0.0013	-2.5 to 2.5	Pass
					3.85	11.058	0.0042	-2.5 to 2.5	Pass
				-20	3.85	-0.730	-0.0003	-2.5 to 2.5	Pass
				-10	3.85	14.062	0.0054	-2.5 to 2.5	Pass
				0	3.85	3.948	0.0015	-2.5 to 2.5	Pass
				10	3.85	9.999	0.0038	-2.5 to 2.5	Pass
				30	3.85	-4.878	-0.0019	-2.5 to 2.5	Pass

16QAM	2652.5	25	0	50	3.85	8.125	0.0031	-2.5 to 2.5	Pass
				20	3.27	4.206	0.0016	-2.5 to 2.5	Pass
					3.85	6.938	0.0026	-2.5 to 2.5	Pass
					4.43	1.287	0.0005	-2.5 to 2.5	Pass
				-30	3.85	-13.790	-0.0052	-2.5 to 2.5	Pass
				-20	3.85	-6.351	-0.0024	-2.5 to 2.5	Pass
				-10	3.85	4.706	0.0018	-2.5 to 2.5	Pass
				0	3.85	-0.672	-0.0003	-2.5 to 2.5	Pass
				10	3.85	-10.386	-0.0039	-2.5 to 2.5	Pass
				30	3.85	-6.080	-0.0023	-2.5 to 2.5	Pass
				40	3.85	-12.517	-0.0047	-2.5 to 2.5	Pass
				50	3.85	-2.017	-0.0008	-2.5 to 2.5	Pass
16QAM	2557.5	25	0	20	3.27	-1.774	-0.0007	-2.5 to 2.5	Pass
					3.85	8.383	0.0033	-2.5 to 2.5	Pass
					4.43	-7.439	-0.0029	-2.5 to 2.5	Pass
					3.85	1.659	0.0006	-2.5 to 2.5	Pass
				-30	3.85	-1.073	-0.0004	-2.5 to 2.5	Pass
				-20	3.85	9.670	0.0038	-2.5 to 2.5	Pass
				-10	3.85	-10.757	-0.0042	-2.5 to 2.5	Pass
				0	3.85	8.812	0.0034	-2.5 to 2.5	Pass
				10	3.85	5.078	0.0020	-2.5 to 2.5	Pass
				30	3.85	0.529	0.0002	-2.5 to 2.5	Pass
				40	3.85	1.545	0.0006	-2.5 to 2.5	Pass
				50	3.85	-3.219	-0.0012	-2.5 to 2.5	Pass
	2605	25	0	20	3.85	-3.877	-0.0015	-2.5 to 2.5	Pass
					4.43	16.150	0.0062	-2.5 to 2.5	Pass
					3.85	8.211	0.0032	-2.5 to 2.5	Pass
					3.85	-1.388	-0.0005	-2.5 to 2.5	Pass
				-30	3.85	-0.086	0.0000	-2.5 to 2.5	Pass
				-20	3.85	8.426	0.0032	-2.5 to 2.5	Pass
				-10	3.85	15.235	0.0058	-2.5 to 2.5	Pass
				0	3.85	8.068	0.0031	-2.5 to 2.5	Pass
				10	3.85	11.086	0.0043	-2.5 to 2.5	Pass
				30	3.85	3.405	0.0013	-2.5 to 2.5	Pass
				40	3.85	-5.379	-0.0020	-2.5 to 2.5	Pass
				50	3.85	8.311	0.0031	-2.5 to 2.5	Pass
16QAM	2652.5	25	0	20	4.43	3.290	0.0012	-2.5 to 2.5	Pass
					3.85	-5.150	-0.0019	-2.5 to 2.5	Pass
					3.85	-5.879	-0.0022	-2.5 to 2.5	Pass
					3.85	-10.328	-0.0039	-2.5 to 2.5	Pass
				-30	3.85	0.072	0.0000	-2.5 to 2.5	Pass
				-20	3.85	-6.294	-0.0024	-2.5 to 2.5	Pass
				-10	3.85	-1.187	-0.0004	-2.5 to 2.5	Pass
				0	3.85	6.137	0.0023	-2.5 to 2.5	Pass
				10	3.85	-3.920	-0.0015	-2.5 to 2.5	Pass
				30	3.85				
				40	3.85				
				50	3.85				

2.1.2 B41_10MHz

Band: 41 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2560	50	0	20	3.27	4.706	0.0018	-2.5 to 2.5	Pass
					3.85	2.432	0.0010	-2.5 to 2.5	Pass
					4.43	5.636	0.0022	-2.5 to 2.5	Pass
				-30	3.85	-5.035	-0.0020	-2.5 to 2.5	Pass
				-20	3.85	0.544	0.0002	-2.5 to 2.5	Pass
				-10	3.85	0.544	0.0002	-2.5 to 2.5	Pass
				0	3.85	5.965	0.0023	-2.5 to 2.5	Pass
				10	3.85				

				10	3.85	-3.462	-0.0014	-2.5 to 2.5	Pass
				30	3.85	8.497	0.0033	-2.5 to 2.5	Pass
				40	3.85	1.416	0.0006	-2.5 to 2.5	Pass
				50	3.85	3.877	0.0015	-2.5 to 2.5	Pass
	2605	50	0	20	3.27	-5.093	-0.0020	-2.5 to 2.5	Pass
					3.85	3.176	0.0012	-2.5 to 2.5	Pass
					4.43	4.721	0.0018	-2.5 to 2.5	Pass
				-30	3.85	5.379	0.0021	-2.5 to 2.5	Pass
				-20	3.85	0.858	0.0003	-2.5 to 2.5	Pass
				-10	3.85	1.960	0.0008	-2.5 to 2.5	Pass
				0	3.85	-4.106	-0.0016	-2.5 to 2.5	Pass
				10	3.85	3.033	0.0012	-2.5 to 2.5	Pass
				30	3.85	2.789	0.0011	-2.5 to 2.5	Pass
				40	3.85	6.766	0.0026	-2.5 to 2.5	Pass
				50	3.85	5.307	0.0020	-2.5 to 2.5	Pass
	2650	50	0	20	3.27	3.605	0.0014	-2.5 to 2.5	Pass
					3.85	-4.091	-0.0015	-2.5 to 2.5	Pass
					4.43	-2.275	-0.0009	-2.5 to 2.5	Pass
				-30	3.85	1.917	0.0007	-2.5 to 2.5	Pass
				-20	3.85	2.432	0.0009	-2.5 to 2.5	Pass
				-10	3.85	4.721	0.0018	-2.5 to 2.5	Pass
				0	3.85	1.059	0.0004	-2.5 to 2.5	Pass
				10	3.85	-2.775	-0.0010	-2.5 to 2.5	Pass
				30	3.85	8.898	0.0034	-2.5 to 2.5	Pass
				40	3.85	1.087	0.0004	-2.5 to 2.5	Pass
				50	3.85	-8.855	-0.0033	-2.5 to 2.5	Pass
16QAM	2560	50	0	20	3.27	-3.333	-0.0013	-2.5 to 2.5	Pass
					3.85	9.284	0.0036	-2.5 to 2.5	Pass
					4.43	3.190	0.0012	-2.5 to 2.5	Pass
				-30	3.85	-2.046	-0.0008	-2.5 to 2.5	Pass
				-20	3.85	-1.388	-0.0005	-2.5 to 2.5	Pass
				-10	3.85	1.059	0.0004	-2.5 to 2.5	Pass
				0	3.85	0.887	0.0003	-2.5 to 2.5	Pass
				10	3.85	1.459	0.0006	-2.5 to 2.5	Pass
				30	3.85	3.619	0.0014	-2.5 to 2.5	Pass
				40	3.85	3.777	0.0015	-2.5 to 2.5	Pass
				50	3.85	-1.602	-0.0006	-2.5 to 2.5	Pass
	2605	50	0	20	3.27	2.003	0.0008	-2.5 to 2.5	Pass
					3.85	1.316	0.0005	-2.5 to 2.5	Pass
					4.43	1.760	0.0007	-2.5 to 2.5	Pass
				-30	3.85	5.493	0.0021	-2.5 to 2.5	Pass
				-20	3.85	6.180	0.0024	-2.5 to 2.5	Pass
				-10	3.85	7.596	0.0029	-2.5 to 2.5	Pass
				0	3.85	10.142	0.0039	-2.5 to 2.5	Pass
				10	3.85	-2.332	-0.0009	-2.5 to 2.5	Pass
				30	3.85	8.340	0.0032	-2.5 to 2.5	Pass
				40	3.85	-2.046	-0.0008	-2.5 to 2.5	Pass
				50	3.85	-6.380	-0.0024	-2.5 to 2.5	Pass
	2650	50	0	20	3.27	0.801	0.0003	-2.5 to 2.5	Pass
					3.85	1.674	0.0006	-2.5 to 2.5	Pass
					4.43	7.482	0.0028	-2.5 to 2.5	Pass
				-30	3.85	-2.675	-0.0010	-2.5 to 2.5	Pass
				-20	3.85	-2.131	-0.0008	-2.5 to 2.5	Pass
				-10	3.85	-1.774	-0.0007	-2.5 to 2.5	Pass
				0	3.85	1.402	0.0005	-2.5 to 2.5	Pass
				10	3.85	-7.453	-0.0028	-2.5 to 2.5	Pass
				30	3.85	-4.249	-0.0016	-2.5 to 2.5	Pass
				40	3.85	-7.081	-0.0027	-2.5 to 2.5	Pass
				50	3.85	0.472	0.0002	-2.5 to 2.5	Pass

2.1.3 B41_15MHz

Band: 41 / Bandwidth: 15MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2562.5	75	0	20	3.27	-1.187	-0.0005	-2.5 to 2.5	Pass
					3.85	4.764	0.0019	-2.5 to 2.5	Pass
					4.43	-1.988	-0.0008	-2.5 to 2.5	Pass
				-30	3.85	-3.190	-0.0012	-2.5 to 2.5	Pass
				-20	3.85	1.831	0.0007	-2.5 to 2.5	Pass
				-10	3.85	3.147	0.0012	-2.5 to 2.5	Pass
				0	3.85	5.178	0.0020	-2.5 to 2.5	Pass
				10	3.85	0.987	0.0004	-2.5 to 2.5	Pass
				30	3.85	5.322	0.0021	-2.5 to 2.5	Pass
				40	3.85	0.887	0.0003	-2.5 to 2.5	Pass
				50	3.85	2.346	0.0009	-2.5 to 2.5	Pass
	2605	75	0	20	3.27	4.392	0.0017	-2.5 to 2.5	Pass
					3.85	5.336	0.0020	-2.5 to 2.5	Pass
					4.43	1.488	0.0006	-2.5 to 2.5	Pass
				-30	3.85	-1.860	-0.0007	-2.5 to 2.5	Pass
				-20	3.85	6.509	0.0025	-2.5 to 2.5	Pass
				-10	3.85	-0.901	-0.0003	-2.5 to 2.5	Pass
				0	3.85	4.935	0.0019	-2.5 to 2.5	Pass
				10	3.85	1.431	0.0005	-2.5 to 2.5	Pass
				30	3.85	-0.801	-0.0003	-2.5 to 2.5	Pass
				40	3.85	4.663	0.0018	-2.5 to 2.5	Pass
				50	3.85	1.388	0.0005	-2.5 to 2.5	Pass
	2647.5	75	0	20	3.27	3.262	0.0012	-2.5 to 2.5	Pass
					3.85	-2.532	-0.0010	-2.5 to 2.5	Pass
					4.43	-2.503	-0.0009	-2.5 to 2.5	Pass
				-30	3.85	-0.687	-0.0003	-2.5 to 2.5	Pass
				-20	3.85	-6.123	-0.0023	-2.5 to 2.5	Pass
				-10	3.85	-0.844	-0.0003	-2.5 to 2.5	Pass
				0	3.85	-0.830	-0.0003	-2.5 to 2.5	Pass
				10	3.85	-1.144	-0.0004	-2.5 to 2.5	Pass
				30	3.85	-2.260	-0.0009	-2.5 to 2.5	Pass
				40	3.85	-0.772	-0.0003	-2.5 to 2.5	Pass
16QAM	2562.5	75	0	20	3.27	-4.306	-0.0017	-2.5 to 2.5	Pass
					3.85	2.375	0.0009	-2.5 to 2.5	Pass
					4.43	5.651	0.0022	-2.5 to 2.5	Pass
				-30	3.85	3.133	0.0012	-2.5 to 2.5	Pass
				-20	3.85	-1.888	-0.0007	-2.5 to 2.5	Pass
				-10	3.85	2.618	0.0010	-2.5 to 2.5	Pass
				0	3.85	2.604	0.0010	-2.5 to 2.5	Pass
				10	3.85	0.486	0.0002	-2.5 to 2.5	Pass
				30	3.85	5.879	0.0023	-2.5 to 2.5	Pass
				40	3.85	-0.944	-0.0004	-2.5 to 2.5	Pass
				50	3.85	7.954	0.0031	-2.5 to 2.5	Pass
	2605	75	0	20	3.27	5.264	0.0020	-2.5 to 2.5	Pass
					3.85	3.719	0.0014	-2.5 to 2.5	Pass
					4.43	4.091	0.0016	-2.5 to 2.5	Pass
				-30	3.85	2.131	0.0008	-2.5 to 2.5	Pass
				-20	3.85	2.804	0.0011	-2.5 to 2.5	Pass
				-10	3.85	4.506	0.0017	-2.5 to 2.5	Pass
				0	3.85	9.212	0.0035	-2.5 to 2.5	Pass
				10	3.85	-1.001	-0.0004	-2.5 to 2.5	Pass

				30	3.85	-2.990	-0.0011	-2.5 to 2.5	Pass
				40	3.85	0.858	0.0003	-2.5 to 2.5	Pass
				50	3.85	4.034	0.0015	-2.5 to 2.5	Pass
	2647.5	75	0	20	3.27	1.431	0.0005	-2.5 to 2.5	Pass
					3.85	0.687	0.0003	-2.5 to 2.5	Pass
					4.43	3.161	0.0012	-2.5 to 2.5	Pass
				-30	3.85	-0.858	-0.0003	-2.5 to 2.5	Pass
				-20	3.85	-7.467	-0.0028	-2.5 to 2.5	Pass
				-10	3.85	-2.260	-0.0009	-2.5 to 2.5	Pass
				0	3.85	-2.847	-0.0011	-2.5 to 2.5	Pass
				10	3.85	4.663	0.0018	-2.5 to 2.5	Pass
				30	3.85	1.459	0.0006	-2.5 to 2.5	Pass
				40	3.85	-0.701	-0.0003	-2.5 to 2.5	Pass
				50	3.85	-1.903	-0.0007	-2.5 to 2.5	Pass

2.1.4 B41_20MHz

Band: 41 / Bandwidth: 20MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2565	100	0	20	3.27	2.146	0.0008	-2.5 to 2.5	Pass
					3.85	4.406	0.0017	-2.5 to 2.5	Pass
					4.43	1.431	0.0006	-2.5 to 2.5	Pass
				-30	3.85	1.402	0.0005	-2.5 to 2.5	Pass
				-20	3.85	0.257	0.0001	-2.5 to 2.5	Pass
				-10	3.85	3.176	0.0012	-2.5 to 2.5	Pass
				0	3.85	5.364	0.0021	-2.5 to 2.5	Pass
				10	3.85	1.931	0.0008	-2.5 to 2.5	Pass
				30	3.85	1.030	0.0004	-2.5 to 2.5	Pass
				40	3.85	0.958	0.0004	-2.5 to 2.5	Pass
				50	3.85	1.159	0.0005	-2.5 to 2.5	Pass
	2605	100	0	20	3.27	3.920	0.0015	-2.5 to 2.5	Pass
					3.85	3.791	0.0015	-2.5 to 2.5	Pass
					4.43	4.721	0.0018	-2.5 to 2.5	Pass
				-30	3.85	8.311	0.0032	-2.5 to 2.5	Pass
				-20	3.85	0.329	0.0001	-2.5 to 2.5	Pass
				-10	3.85	4.992	0.0019	-2.5 to 2.5	Pass
				0	3.85	0.057	0.0000	-2.5 to 2.5	Pass
				10	3.85	4.878	0.0019	-2.5 to 2.5	Pass
				30	3.85	6.366	0.0024	-2.5 to 2.5	Pass
				40	3.85	-0.429	-0.0002	-2.5 to 2.5	Pass
				50	3.85	2.904	0.0011	-2.5 to 2.5	Pass
	2645	100	0	20	3.27	1.688	0.0006	-2.5 to 2.5	Pass
					3.85	1.130	0.0004	-2.5 to 2.5	Pass
					4.43	-1.173	-0.0004	-2.5 to 2.5	Pass
				-30	3.85	0.858	0.0003	-2.5 to 2.5	Pass
				-20	3.85	4.792	0.0018	-2.5 to 2.5	Pass
				-10	3.85	-0.229	-0.0001	-2.5 to 2.5	Pass
				0	3.85	1.087	0.0004	-2.5 to 2.5	Pass
				10	3.85	-8.984	-0.0034	-2.5 to 2.5	Pass
				30	3.85	-1.845	-0.0007	-2.5 to 2.5	Pass
				40	3.85	6.080	0.0023	-2.5 to 2.5	Pass
				50	3.85	-0.572	-0.0002	-2.5 to 2.5	Pass
16QAM	2565	100	0	20	3.27	0.515	0.0002	-2.5 to 2.5	Pass
					3.85	-4.950	-0.0019	-2.5 to 2.5	Pass
					4.43	-0.701	-0.0003	-2.5 to 2.5	Pass
				-30	3.85	5.836	0.0023	-2.5 to 2.5	Pass
				-20	3.85	2.103	0.0008	-2.5 to 2.5	Pass

				-10	3.85	-0.043	0.0000	-2.5 to 2.5	Pass
				0	3.85	-2.089	-0.0008	-2.5 to 2.5	Pass
				10	3.85	-5.150	-0.0020	-2.5 to 2.5	Pass
				30	3.85	-0.415	-0.0002	-2.5 to 2.5	Pass
				40	3.85	3.448	0.0013	-2.5 to 2.5	Pass
				50	3.85	-1.702	-0.0007	-2.5 to 2.5	Pass
	2605	100	0	20	3.27	4.492	0.0017	-2.5 to 2.5	Pass
					3.85	5.636	0.0022	-2.5 to 2.5	Pass
					4.43	5.136	0.0020	-2.5 to 2.5	Pass
				-30	3.85	1.159	0.0004	-2.5 to 2.5	Pass
				-20	3.85	5.636	0.0022	-2.5 to 2.5	Pass
				-10	3.85	6.652	0.0026	-2.5 to 2.5	Pass
				0	3.85	-2.832	-0.0011	-2.5 to 2.5	Pass
				10	3.85	5.350	0.0021	-2.5 to 2.5	Pass
				30	3.85	-4.549	-0.0017	-2.5 to 2.5	Pass
				40	3.85	-0.486	-0.0002	-2.5 to 2.5	Pass
				50	3.85	-3.176	-0.0012	-2.5 to 2.5	Pass
	2645	100	0	20	3.27	3.147	0.0012	-2.5 to 2.5	Pass
					3.85	-3.662	-0.0014	-2.5 to 2.5	Pass
					4.43	-6.237	-0.0024	-2.5 to 2.5	Pass
				-30	3.85	2.160	0.0008	-2.5 to 2.5	Pass
				-20	3.85	8.011	0.0030	-2.5 to 2.5	Pass
				-10	3.85	0.944	0.0004	-2.5 to 2.5	Pass
				0	3.85	1.116	0.0004	-2.5 to 2.5	Pass
				10	3.85	1.702	0.0006	-2.5 to 2.5	Pass
				30	3.85	2.232	0.0008	-2.5 to 2.5	Pass
				40	3.85	-0.615	-0.0002	-2.5 to 2.5	Pass
				50	3.85	4.478	0.0017	-2.5 to 2.5	Pass

3. Modulation Characteristics

3.1 Test Result

3.1.1 B41_5MHz

Band: 41 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2605	25	0	Refer To Test Graph		Pass
16QAM	2605	25	0	Refer To Test Graph		Pass

3.1.2 B41_10MHz

Band: 41 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2605	50	0	Refer To Test Graph		Pass
16QAM	2605	50	0	Refer To Test Graph		Pass

3.1.3 B41_15MHz

Band: 41 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	

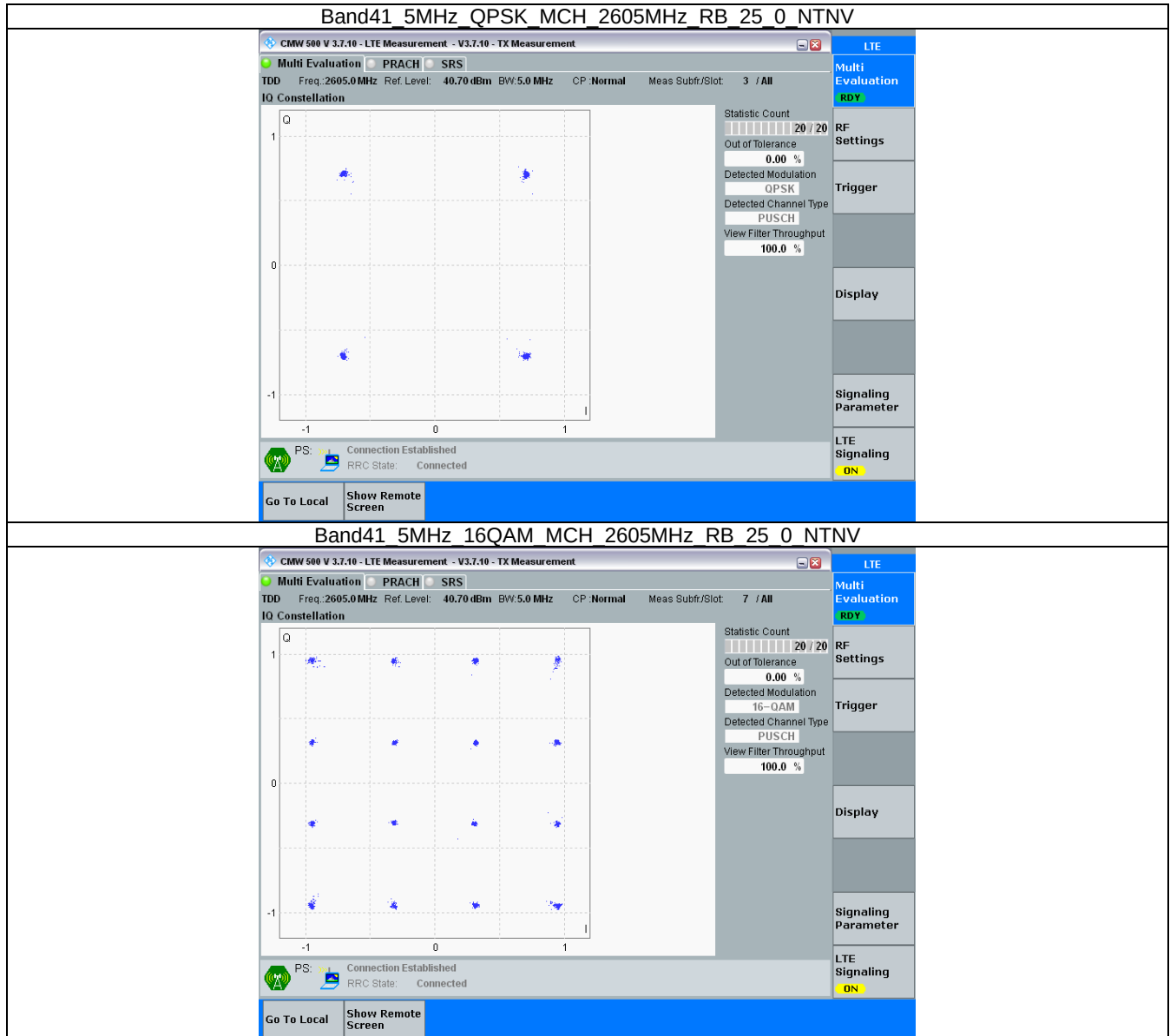
QPSK	2605	75	0	Refer To Test Graph	Pass
16QAM	2605	75	0	Refer To Test Graph	Pass

3.1.4 B41_20MHz

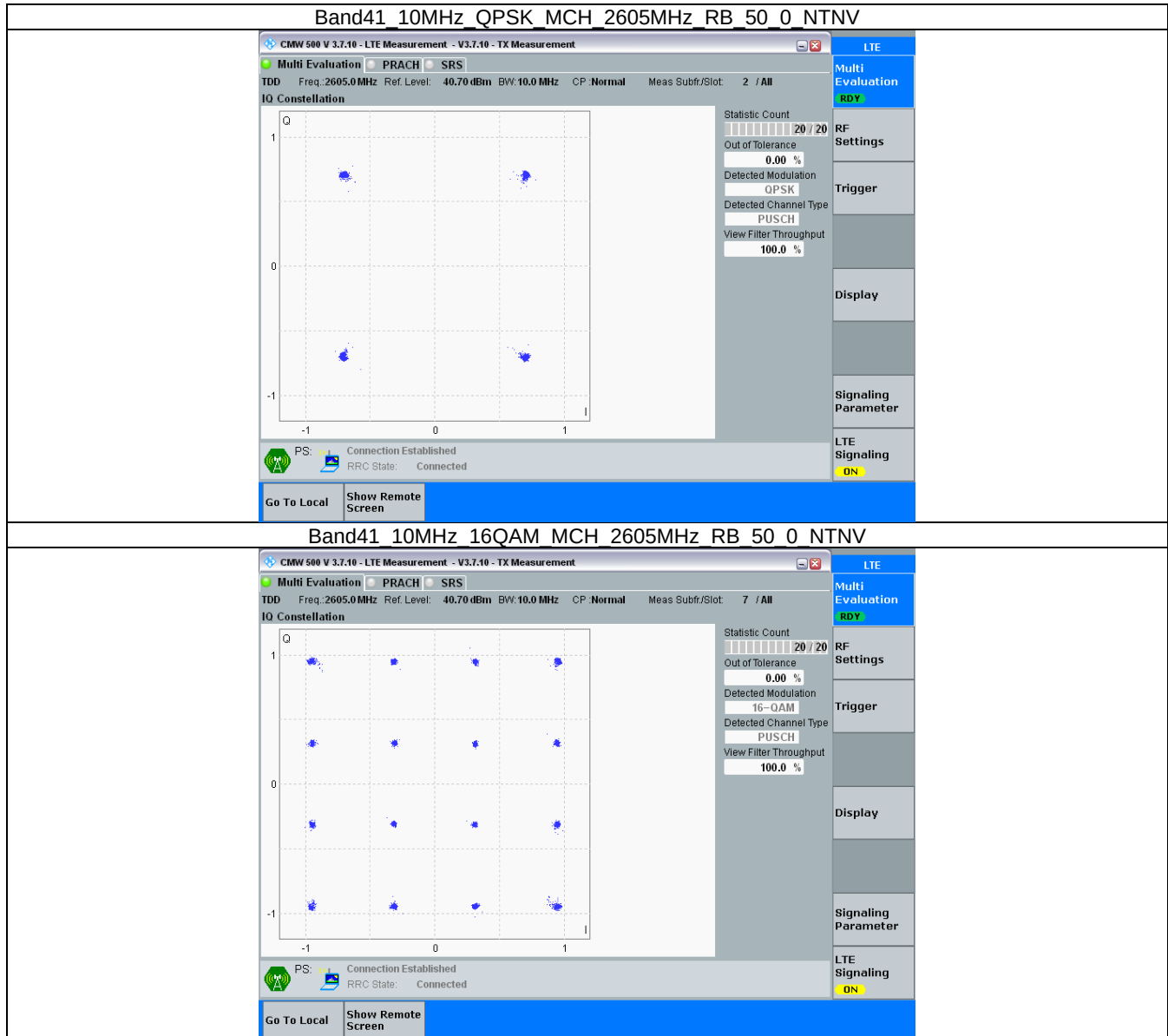
Band: 41 / Bandwidth: 20MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2605	100	0	Refer To Test Graph		Pass
16QAM	2605	100	0	Refer To Test Graph		Pass

3.2 Test Graph

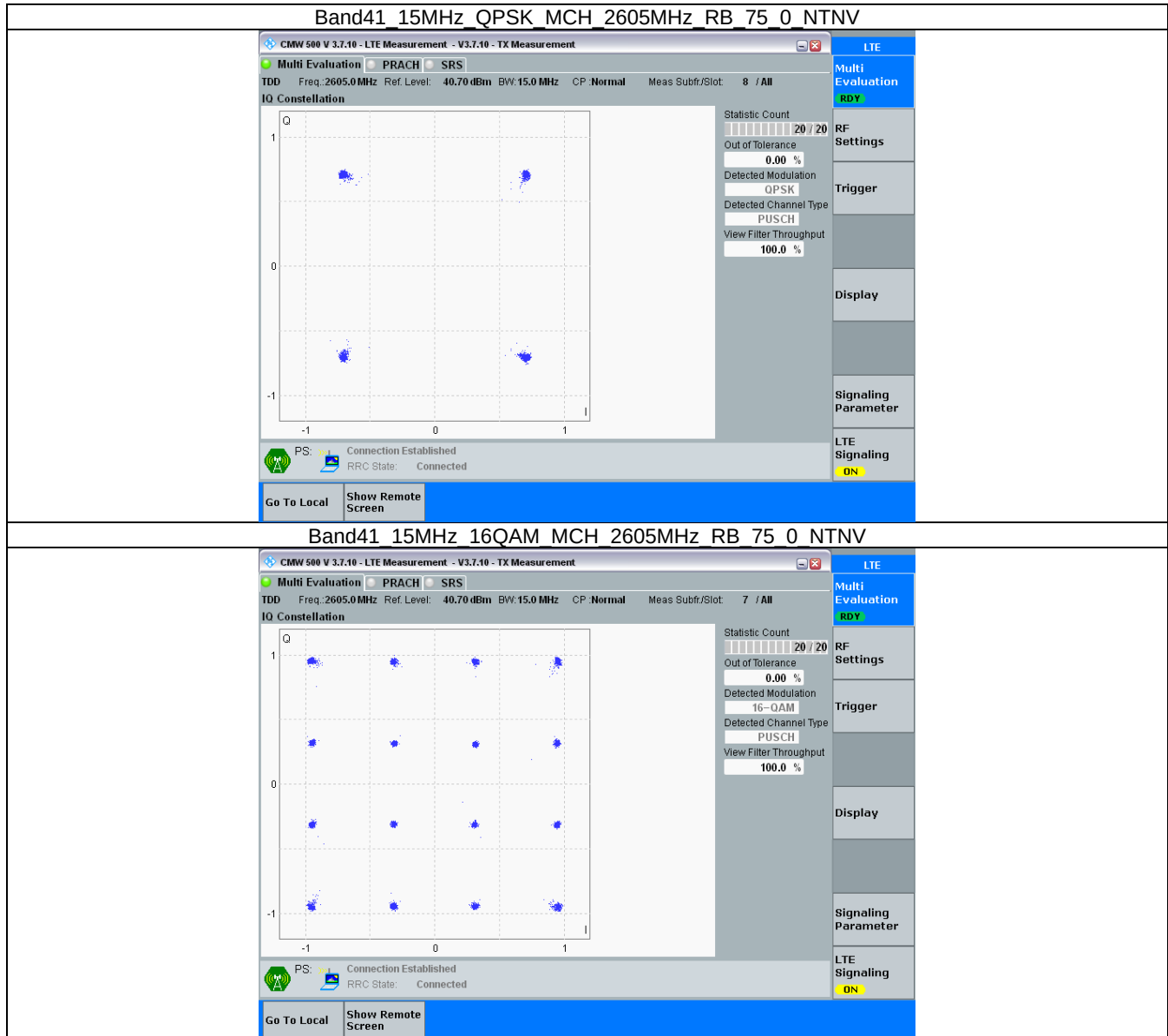
3.2.1 B41_5MHz



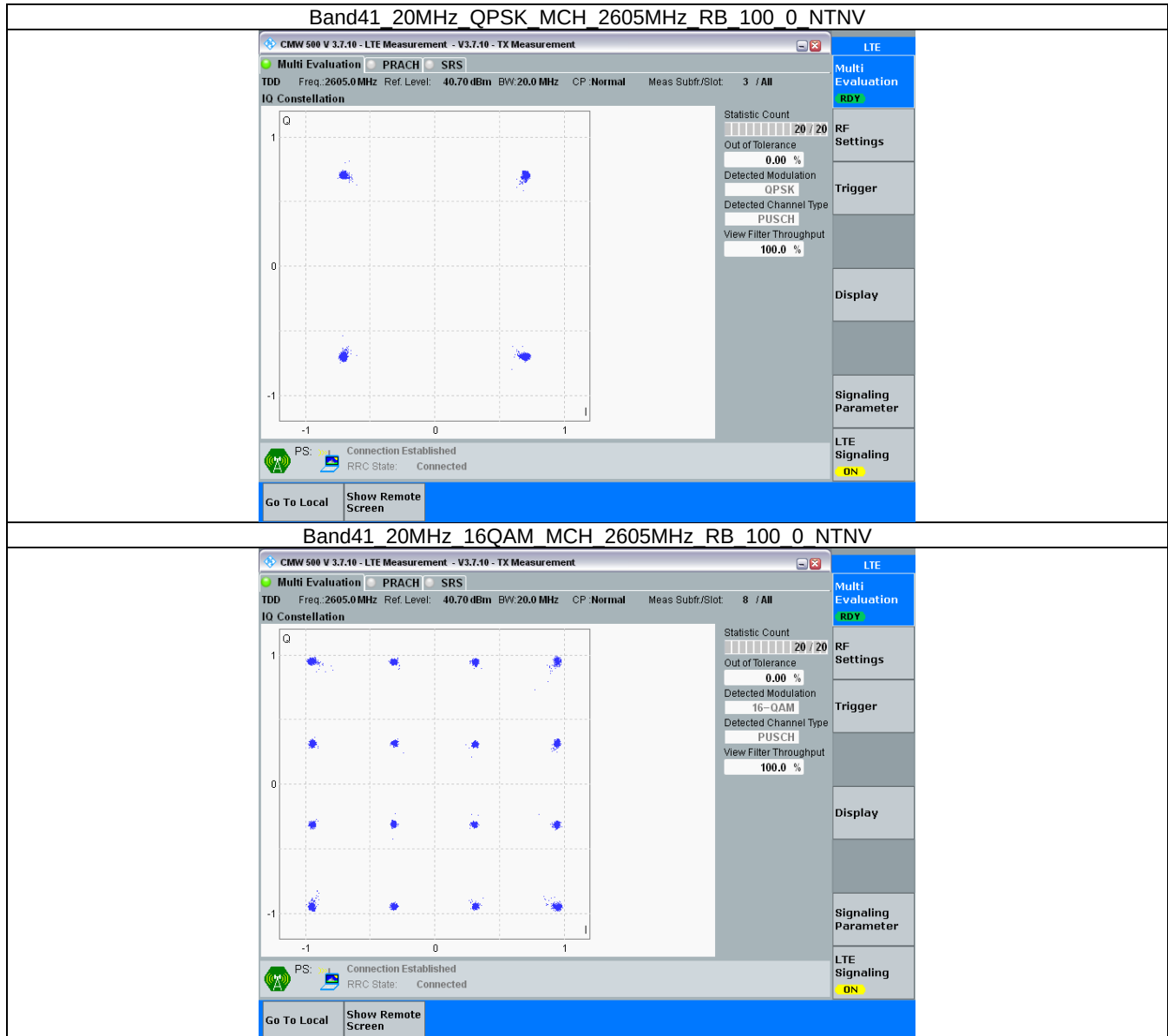
3.2.2 B41_10MHz



3.2.3 B41_15MHz



3.2.4 B41_20MHz



4. 99% & 26dB Bandwidth

4.1 Test Result

4.1.1 Band41_OBW

Band: 41 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2557.5	25	0	4.558	/	Pass
		2605	25	0	4.552	/	Pass
		2652.5	25	0	4.559	/	Pass
	16QAM	2557.5	25	0	4.542	/	Pass
		2605	25	0	4.544	/	Pass
		2652.5	25	0	4.589	/	Pass
10	QPSK	2560	50	0	9.064	/	Pass
		2605	50	0	9.064	/	Pass
		2650	50	0	9.078	/	Pass
	16QAM	2560	50	0	9.115	/	Pass
		2605	50	0	9.073	/	Pass
		2650	50	0	9.029	/	Pass
15	QPSK	2562.5	75	0	13.582	/	Pass
		2605	75	0	13.571	/	Pass
		2647.5	75	0	13.599	/	Pass
	16QAM	2562.5	75	0	13.594	/	Pass
		2605	75	0	13.595	/	Pass
		2647.5	75	0	13.636	/	Pass
20	QPSK	2565	100	0	18.128	/	Pass
		2605	100	0	18.103	/	Pass
		2645	100	0	18.127	/	Pass
	16QAM	2565	100	0	18.126	/	Pass
		2605	100	0	18.164	/	Pass
		2645	100	0	18.101	/	Pass

4.1.2 Band41_XDB

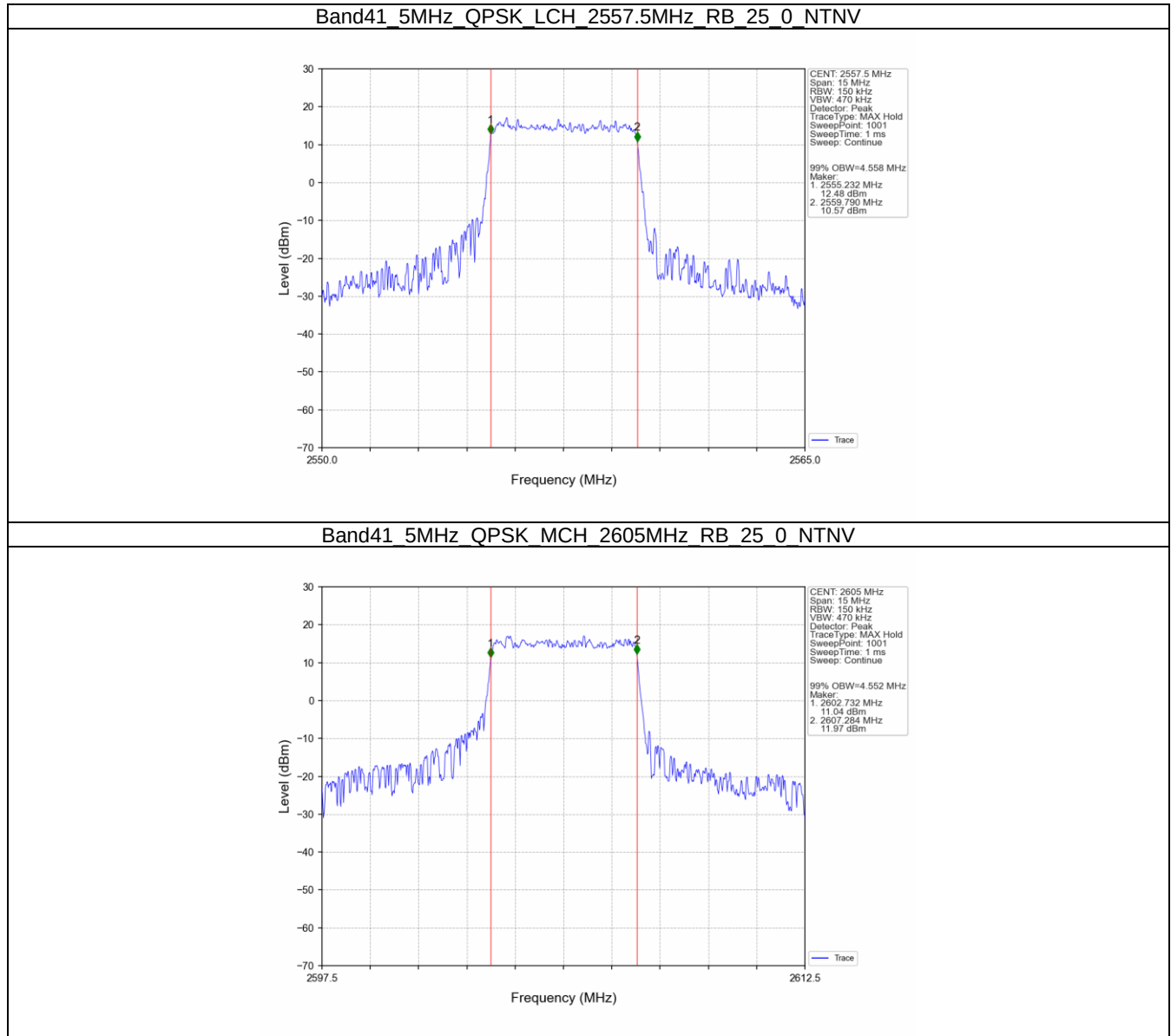
Band: 41 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2557.5	25	0	5.044	/	Pass
		2605	25	0	5.748	/	Pass
		2652.5	25	0	6.007	/	Pass
	16QAM	2557.5	25	0	5.048	/	Pass
		2605	25	0	5.052	/	Pass
		2652.5	25	0	5.204	/	Pass
10	QPSK	2560	50	0	10.286	/	Pass
		2605	50	0	11.484	/	Pass
		2650	50	0	10.499	/	Pass
	16QAM	2560	50	0	11.416	/	Pass
		2605	50	0	11.148	/	Pass
		2650	50	0	10.045	/	Pass
15	QPSK	2562.5	75	0	16.341	/	Pass
		2605	75	0	15.235	/	Pass
		2647.5	75	0	15.394	/	Pass



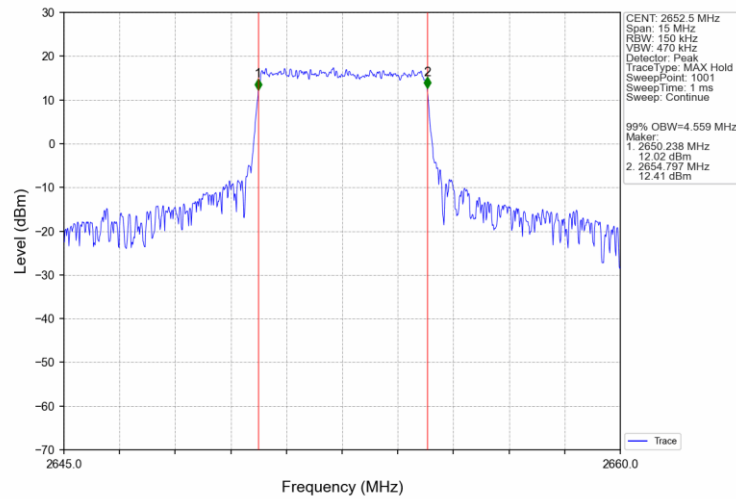
	16QAM	2562.5	75	0	16.101	/	Pass
		2605	75	0	15.104	/	Pass
		2647.5	75	0	15.061	/	Pass
20	QPSK	2565	100	0	22.750	/	Pass
		2605	100	0	22.726	/	Pass
		2645	100	0	19.898	/	Pass
	16QAM	2565	100	0	21.743	/	Pass
		2605	100	0	23.143	/	Pass
		2645	100	0	20.753	/	Pass

4.2 Test Graph

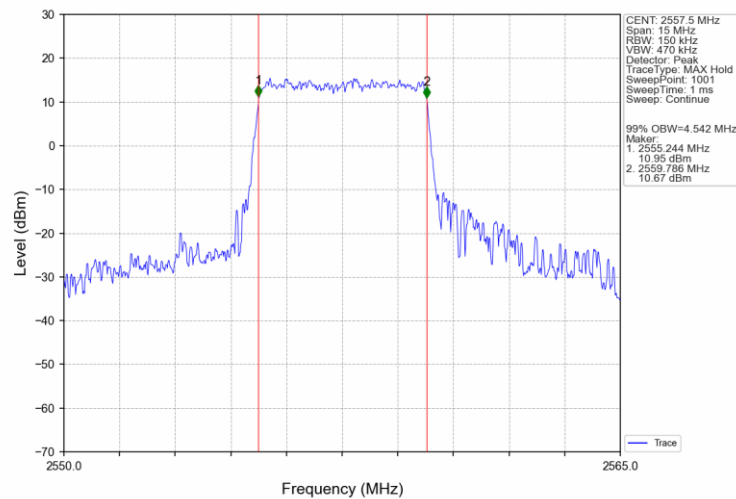
4.2.1 Band41_OBW



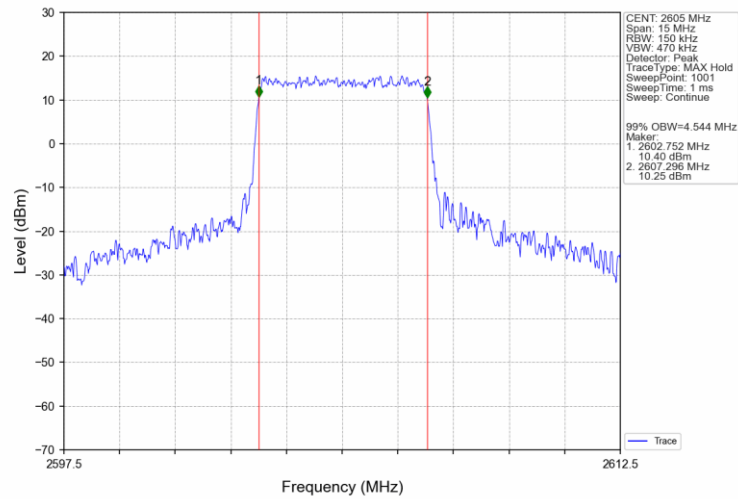
Band41_5MHz_QPSK_HCH_2652.5MHz_RB_25_0_NTNV



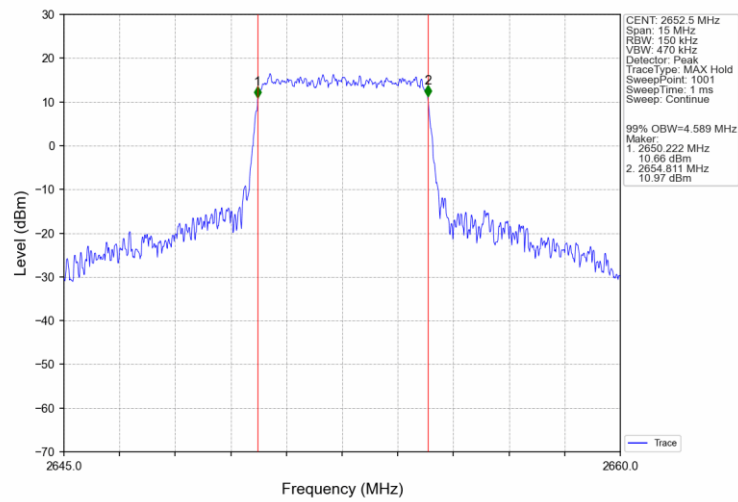
Band41_5MHz_16QAM_LCH_2557.5MHz_RB_25_0_NTNV



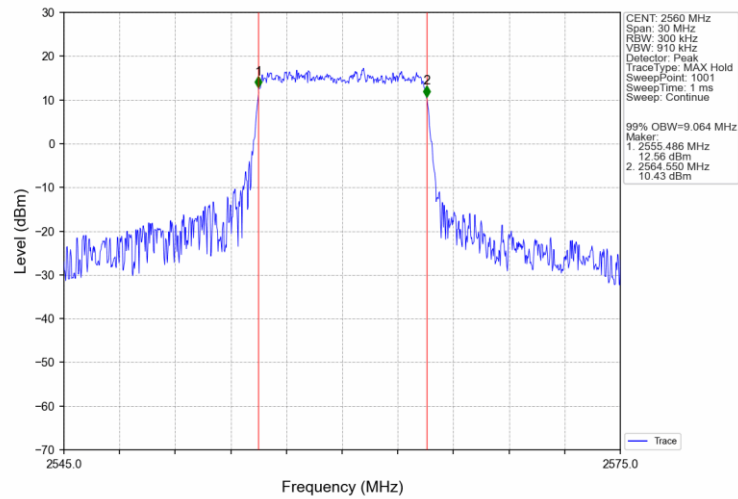
Band41_5MHz_16QAM_MCH_2605MHz_RB_25_0_NTNV



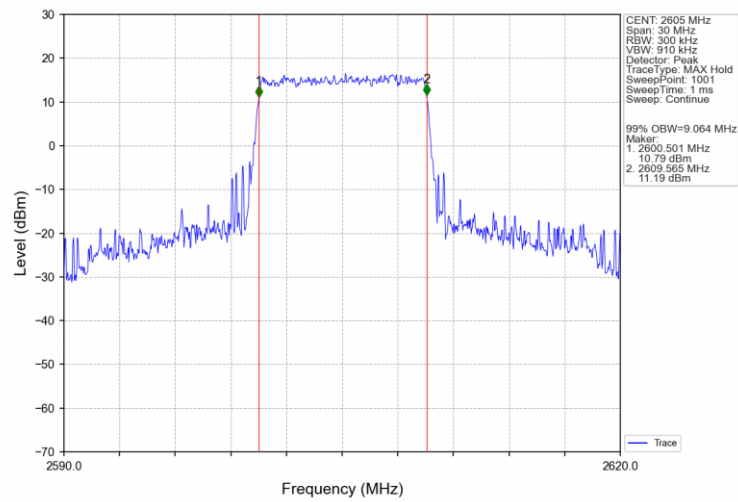
Band41_5MHz_16QAM_HCH_2652.5MHz_RB_25_0_NTNV



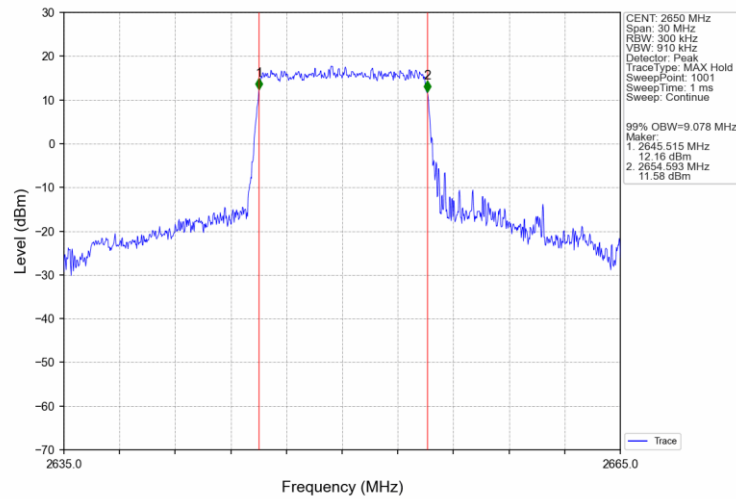
Band41_10MHz_QPSK_LCH_2560MHz_RB_50_0_NTNV



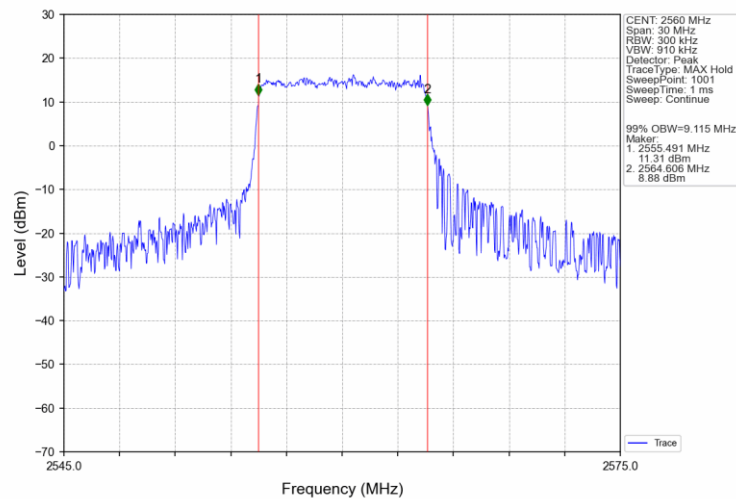
Band41_10MHz_QPSK_MCH_2605MHz_RB_50_0_NTNV



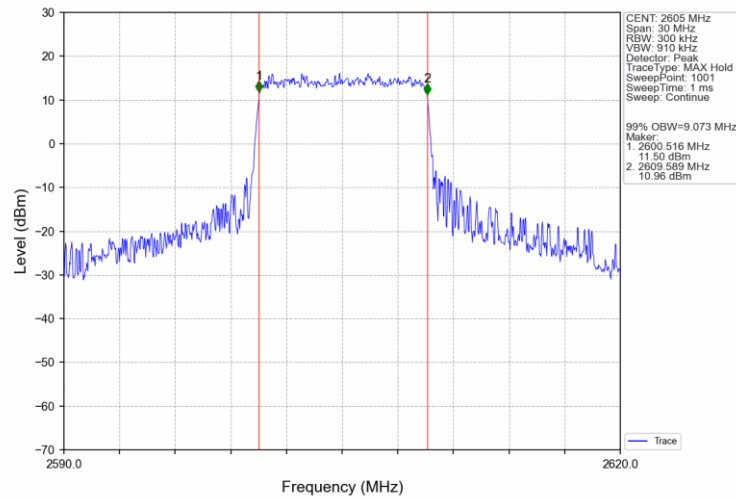
Band41_10MHz_QPSK_HCH_2650MHz_RB_50_0_NTNV



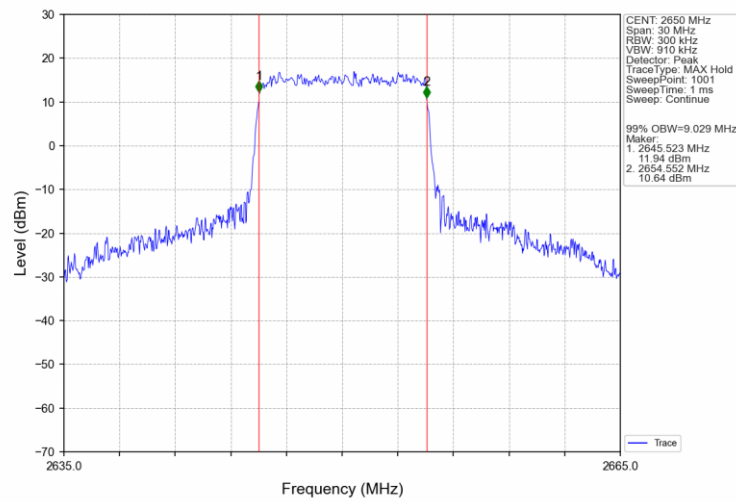
Band41_10MHz_16QAM_LCH_2560MHz_RB_50_0_NTNV



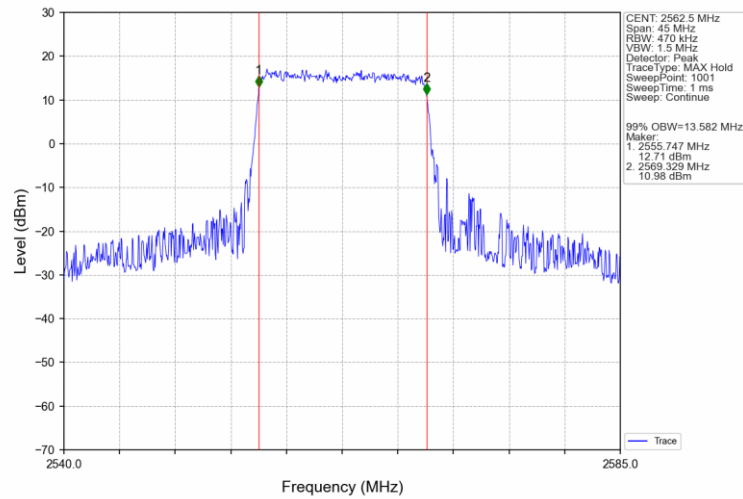
Band41_10MHz_16QAM_MCH_2605MHz_RB_50_0_NTNV



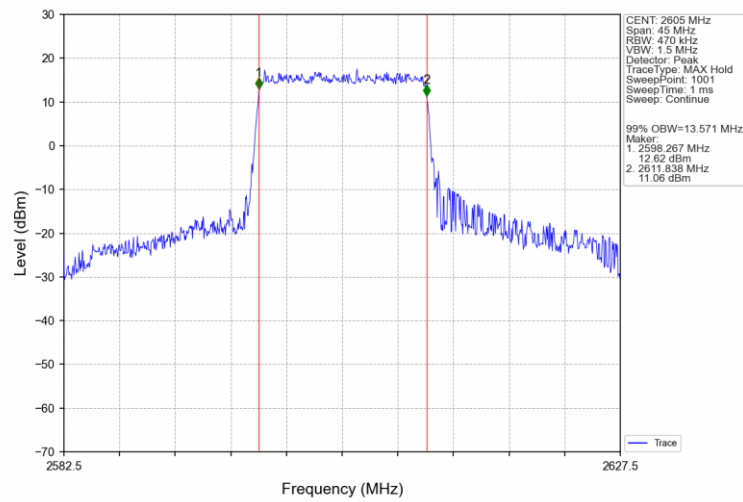
Band41_10MHz_16QAM_HCH_2650MHz_RB_50_0_NTNV



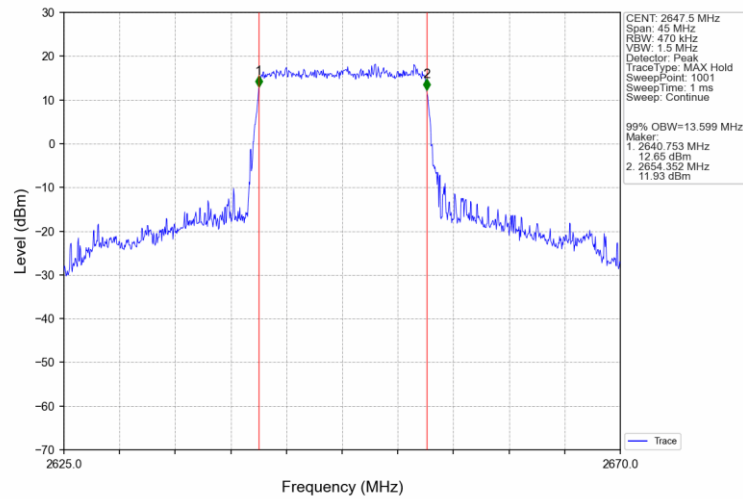
Band41_15MHz_QPSK_LCH_2562.5MHz_RB_75_0_NTNV



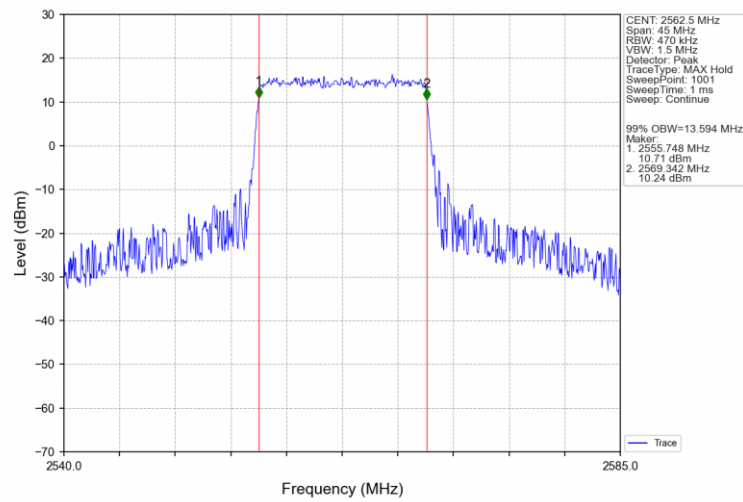
Band41_15MHz_QPSK_MCH_2605MHz_RB_75_0_NTNV



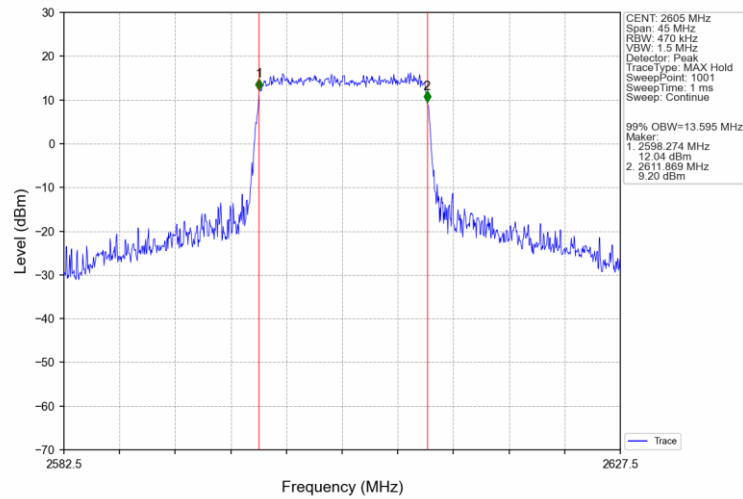
Band41_15MHz_QPSK_HCH_2647.5MHz_RB_75_0_NTNV



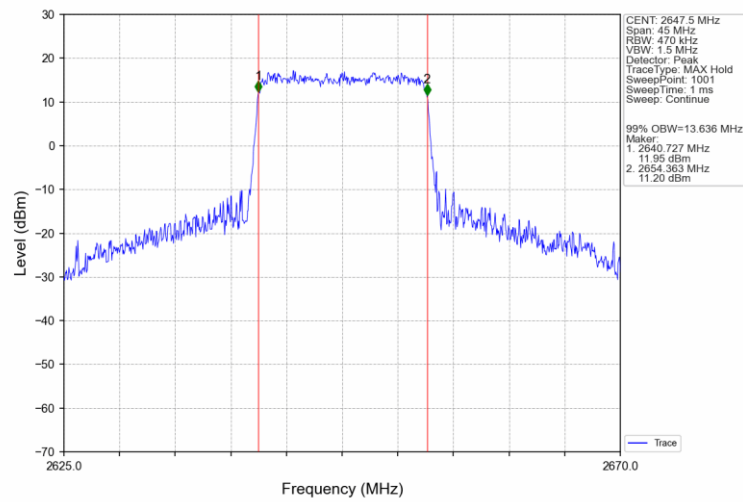
Band41_15MHz_16QAM_LCH_2562.5MHz_RB_75_0_NTNV



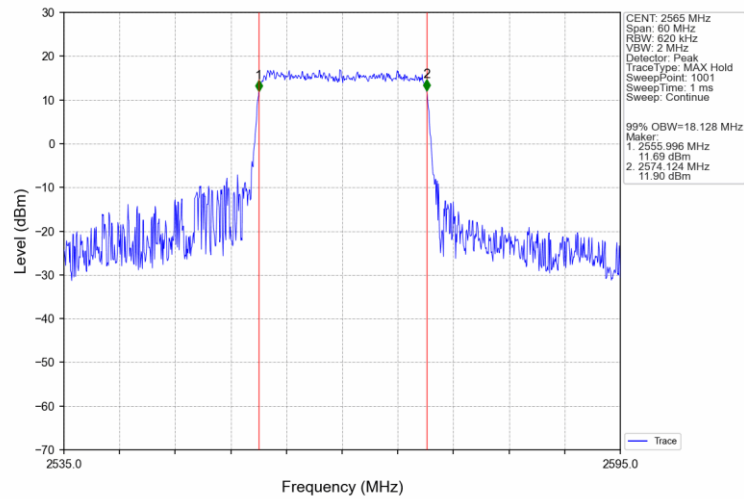
Band41_15MHz_16QAM_MCH_2605MHz_RB_75_0_NTNV



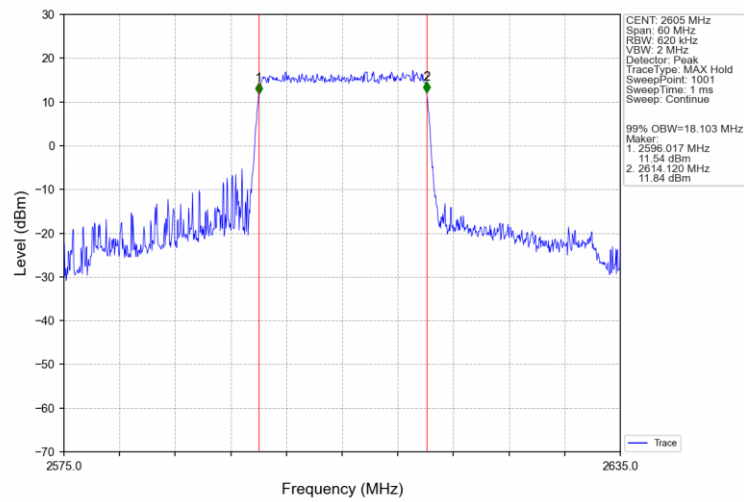
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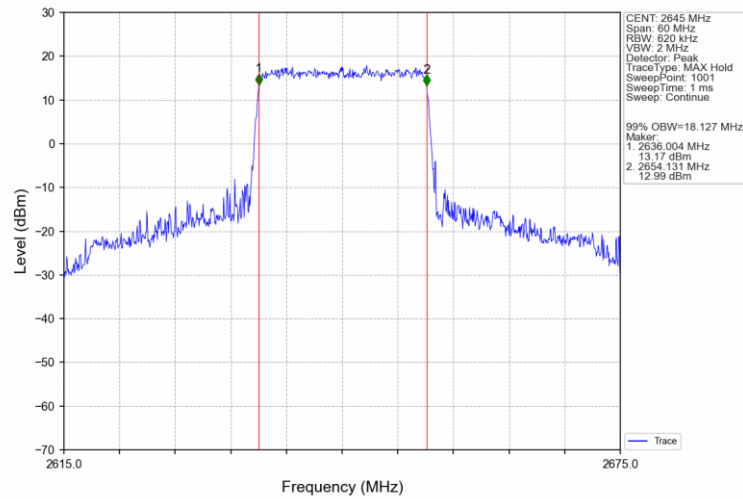
Band41_20MHz_QPSK_LCH_2565MHz_RB_100_0_NTNV



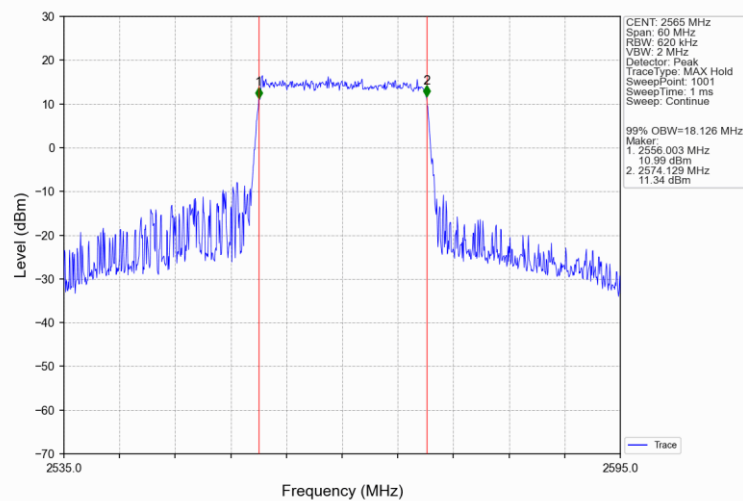
Band41_20MHz_QPSK_MCH_2605MHz_RB_100_0_NTNV



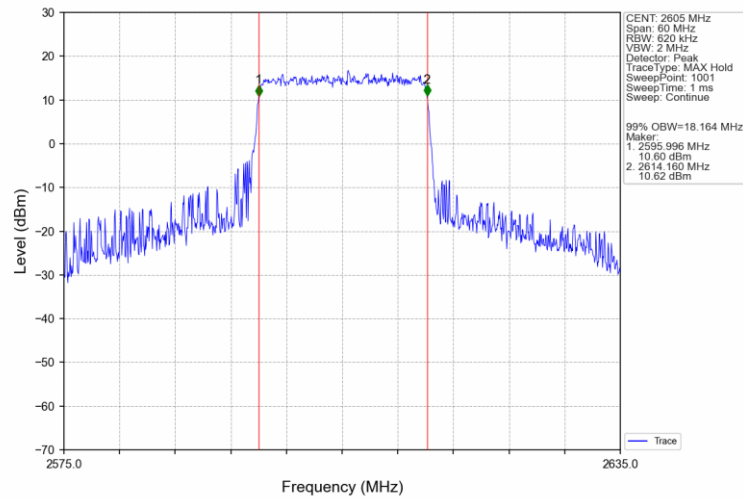
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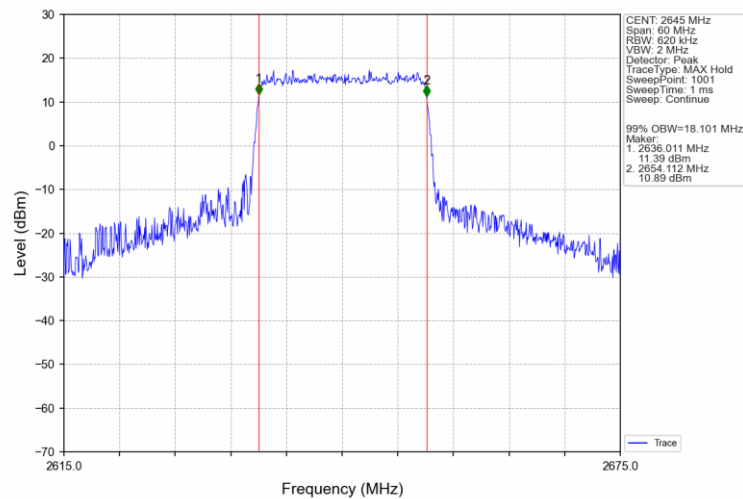
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Band41_20MHz_16QAM_MCH_2605MHz_RB_100_0_NTNV

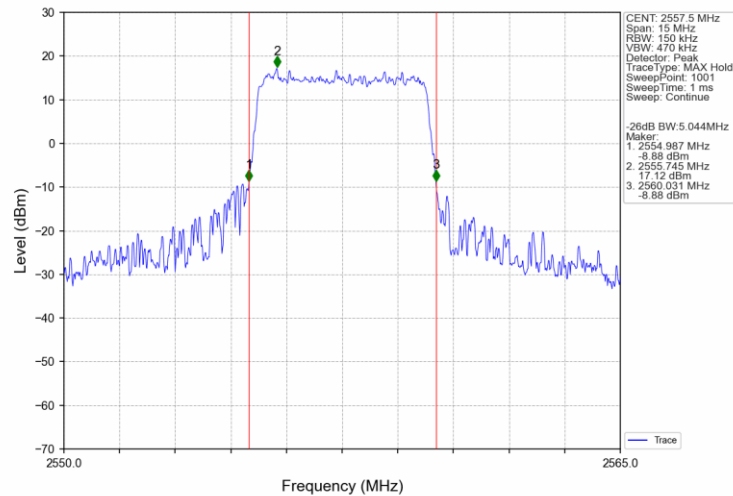


Band41_20MHz_16QAM_HCH_2645MHz_RB_100_0_NTNV

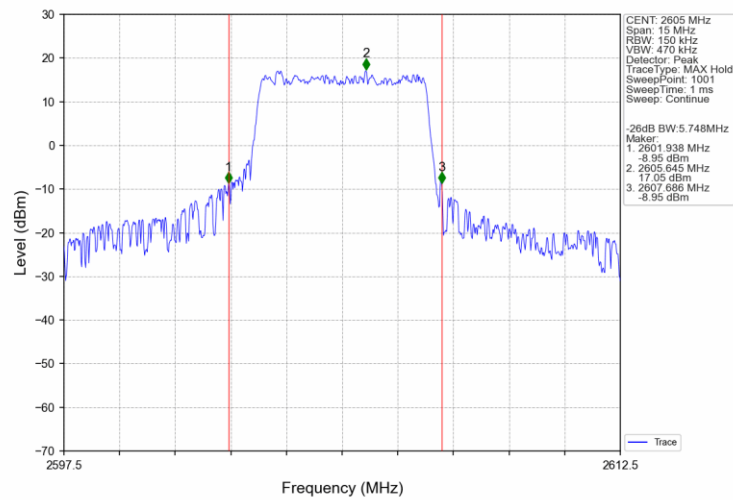


4.2.2 Band41_XDB

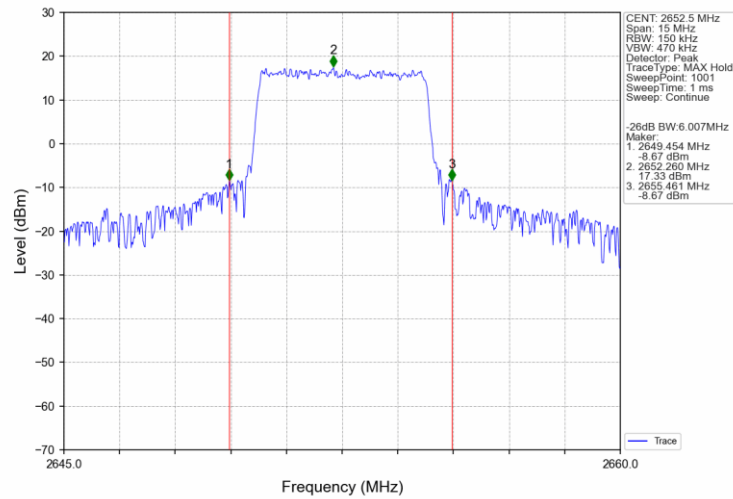
Band41_5MHz_QPSK_LCH_2557.5MHz_RB_25_0_NTNV



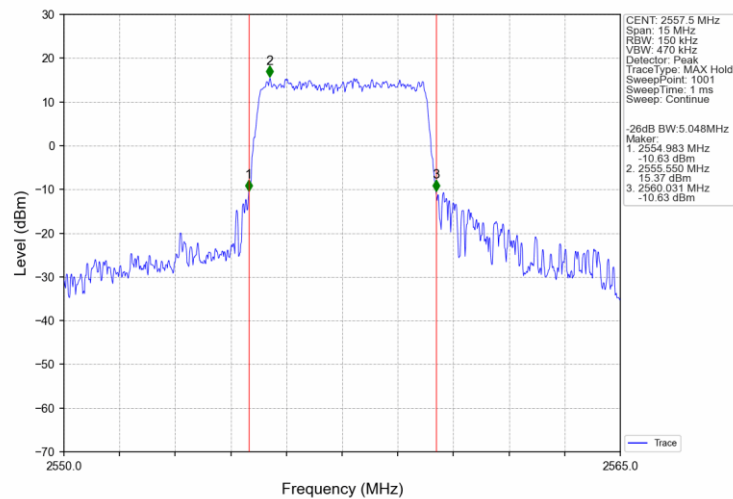
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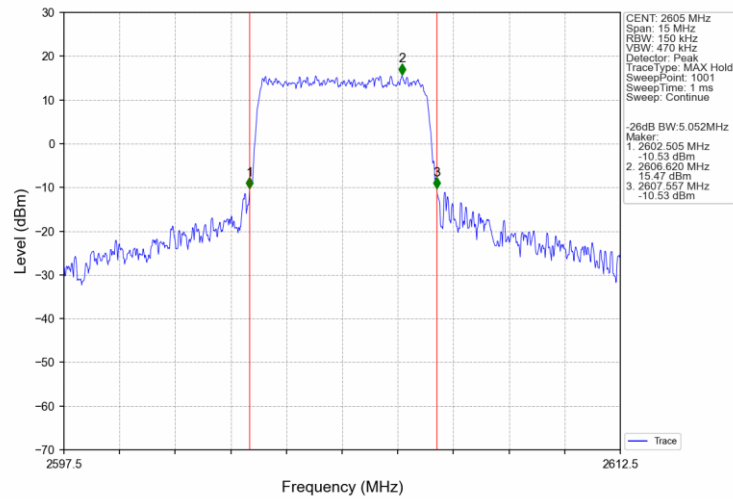
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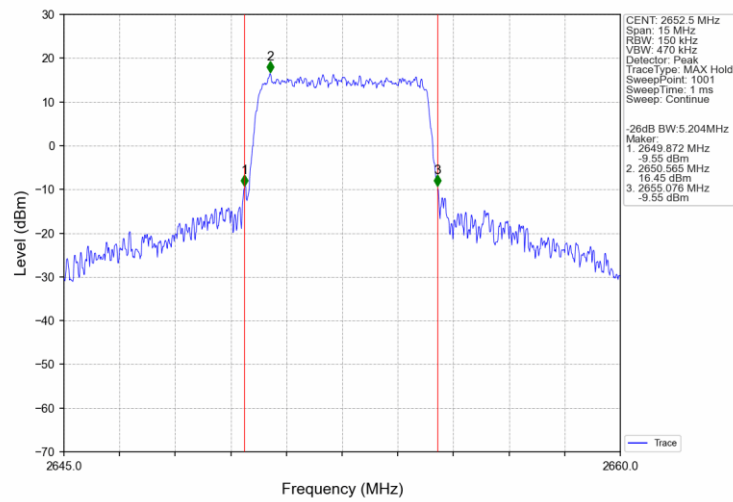
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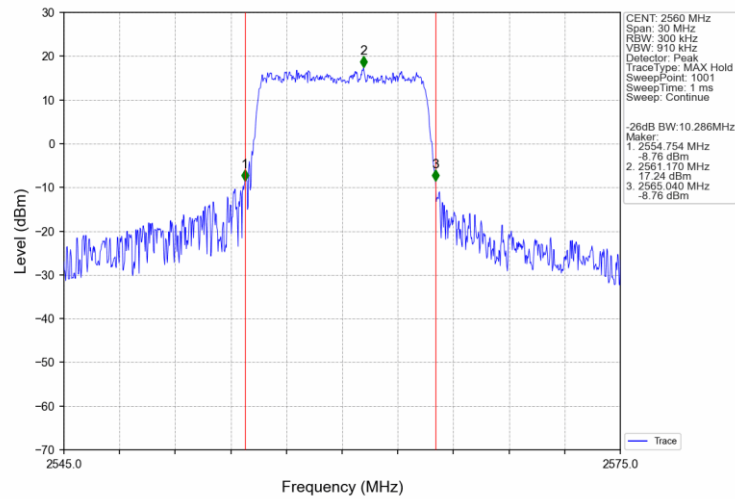
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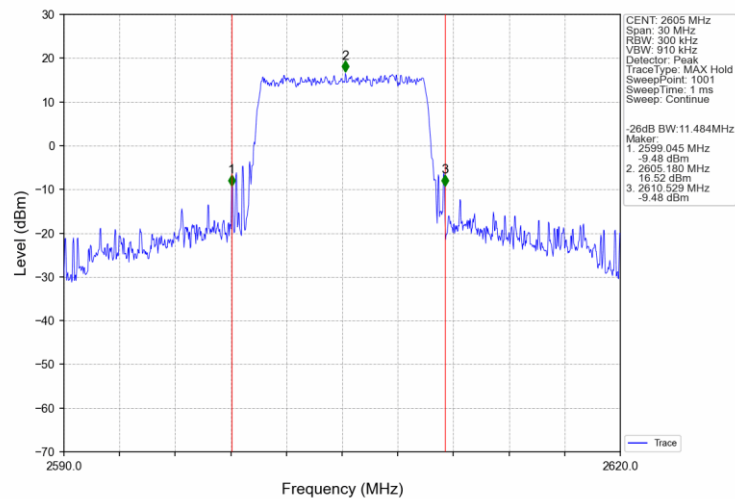
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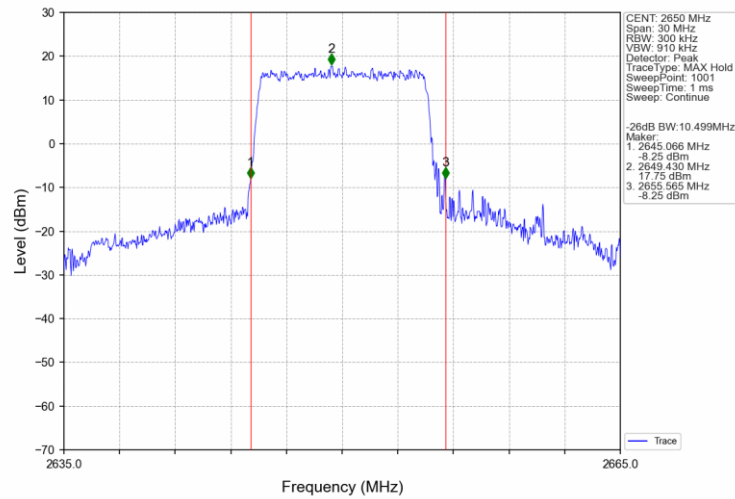
Band41_10MHz_QPSK_LCH_2560MHz_RB_50_0_NTNV



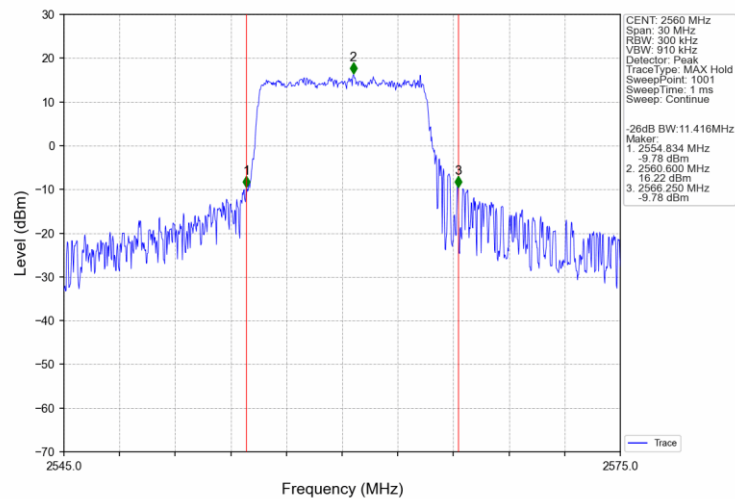
Band41_10MHz_QPSK_MCH_2605MHz_RB_50_0_NTNV



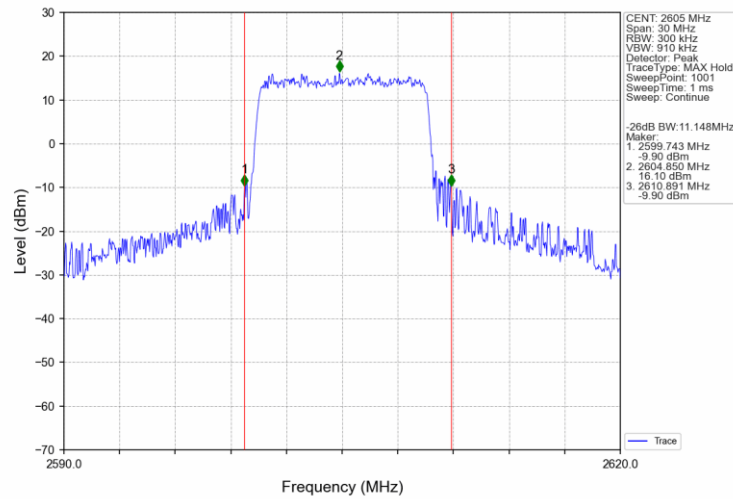
Band41_10MHz_QPSK_HCH_2650MHz_RB_50_0_NTNV



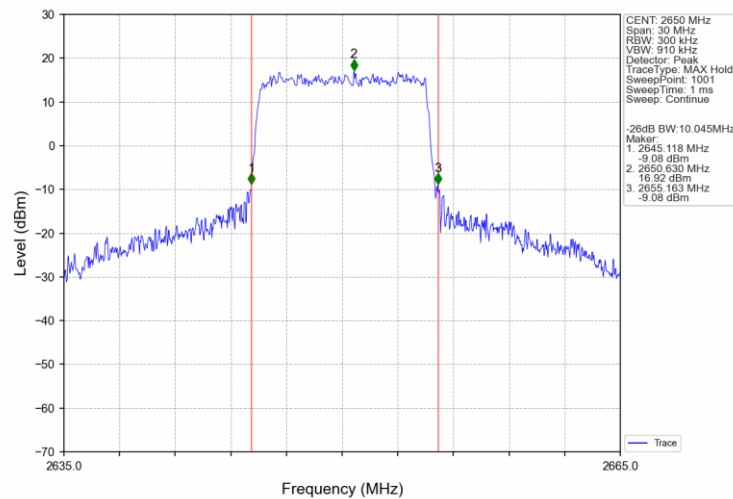
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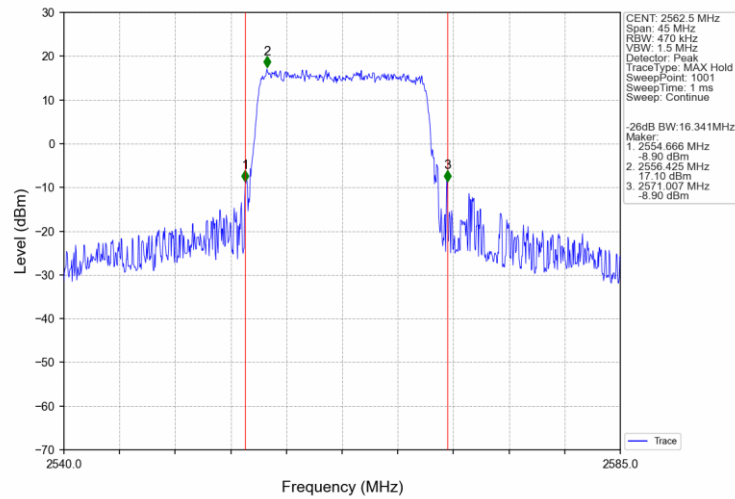
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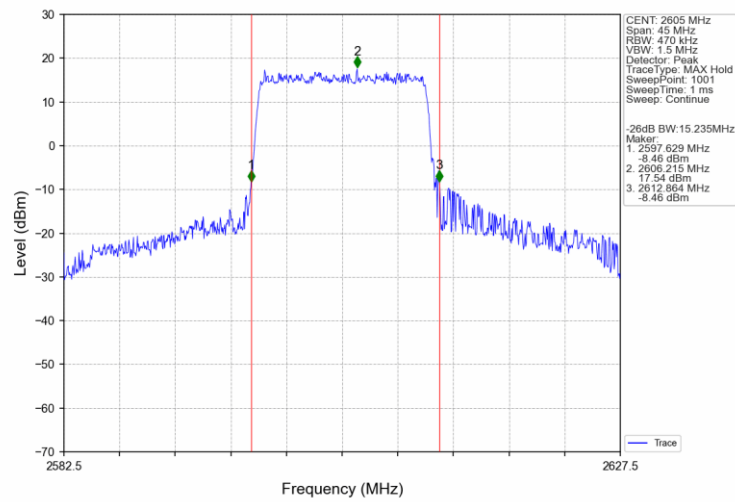
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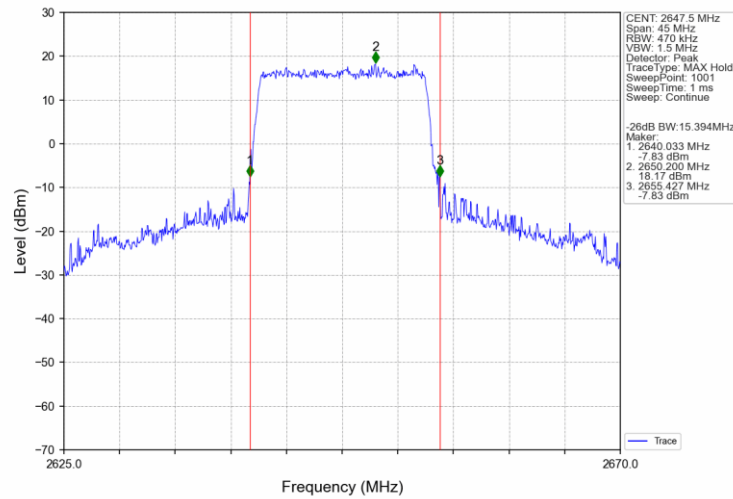
Band41_15MHz_QPSK_LCH_2562.5MHz_RB_75_0_NTNV



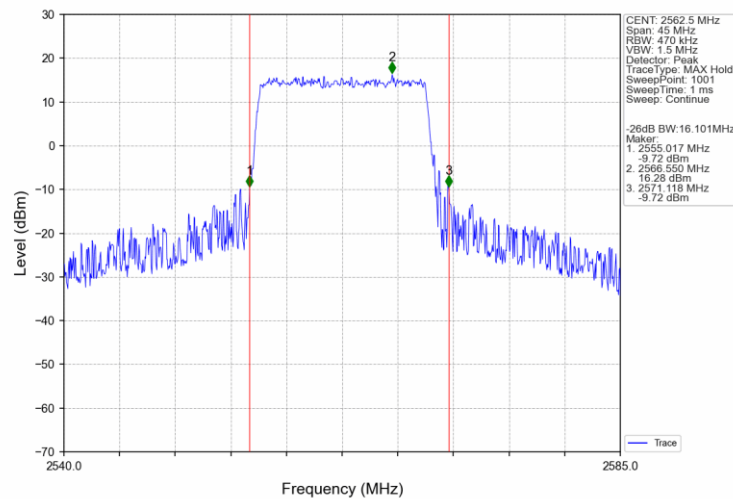
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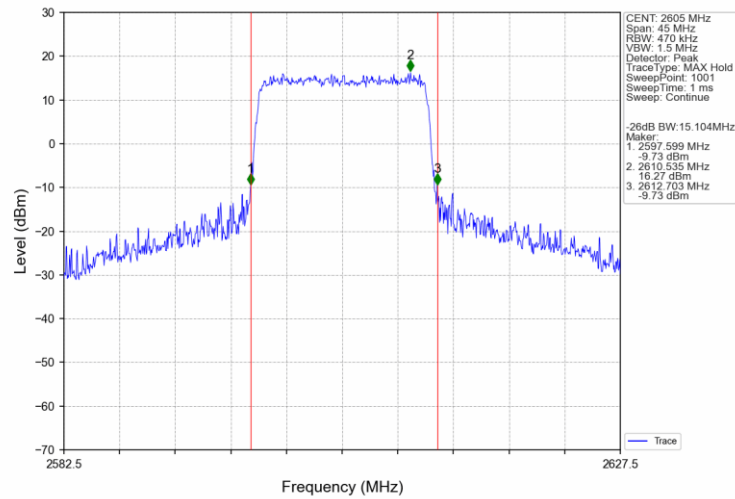
Band41_15MHz_QPSK_HCH_2647.5MHz_RB_75_0_NTNV



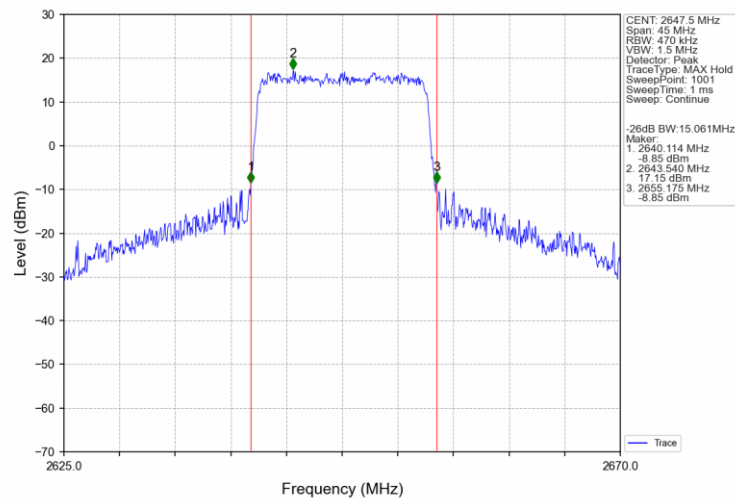
Band41_15MHz_16QAM_LCH_2562.5MHz_RB_75_0_NTNV



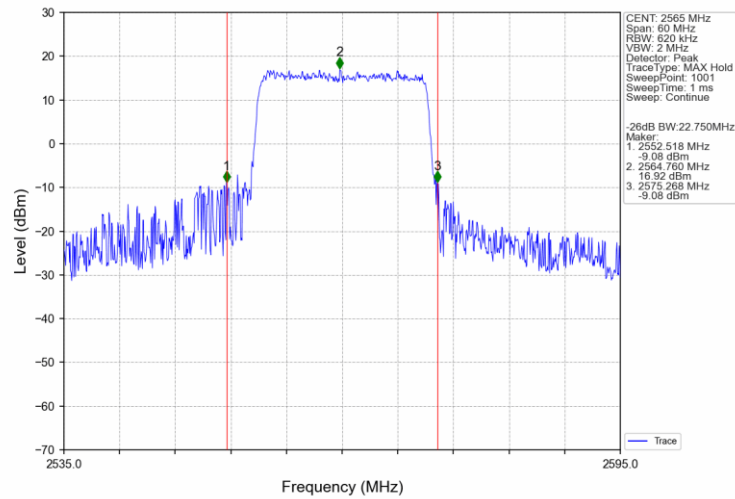
Band41_15MHz_16QAM_MCH_2605MHz_RB_75_0_NTNV



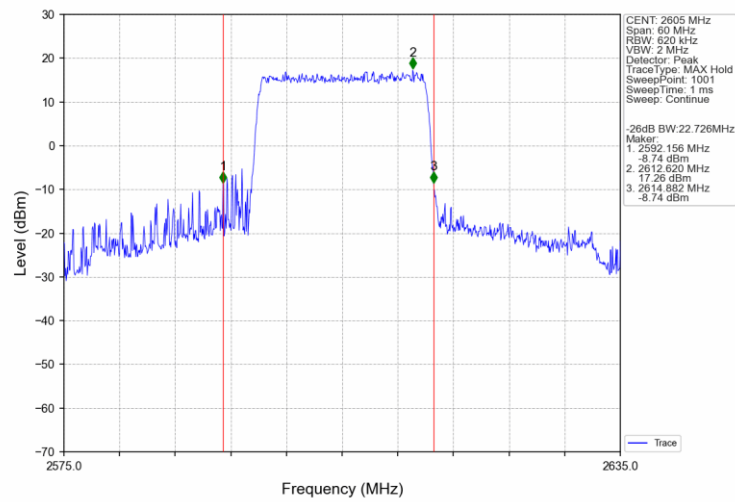
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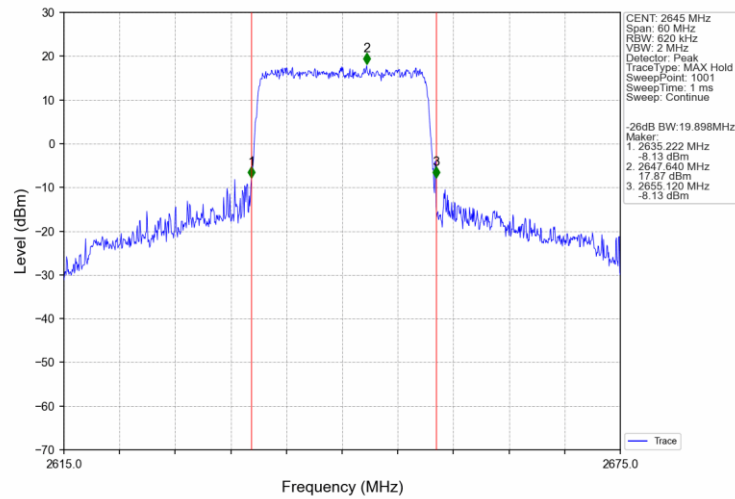
Band41_20MHz_QPSK_LCH_2565MHz_RB_100_0_NTNV



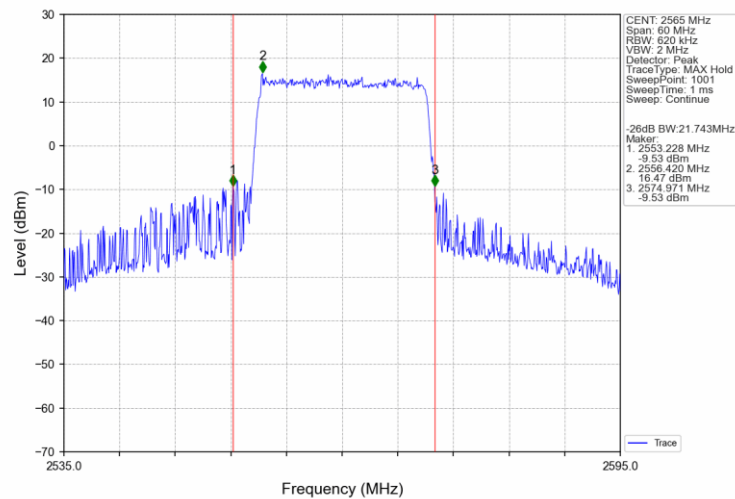
Band41_20MHz_QPSK_MCH_2605MHz_RB_100_0_NTNV



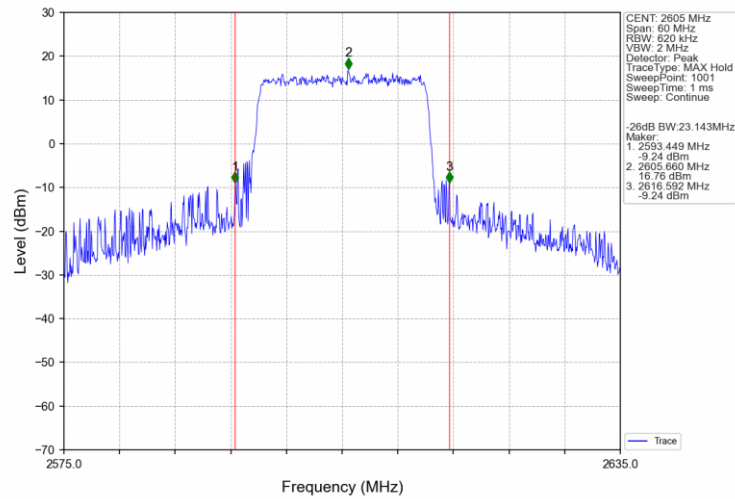
Band41_20MHz_QPSK_HCH_2645MHz_RB_100_0_NTNV



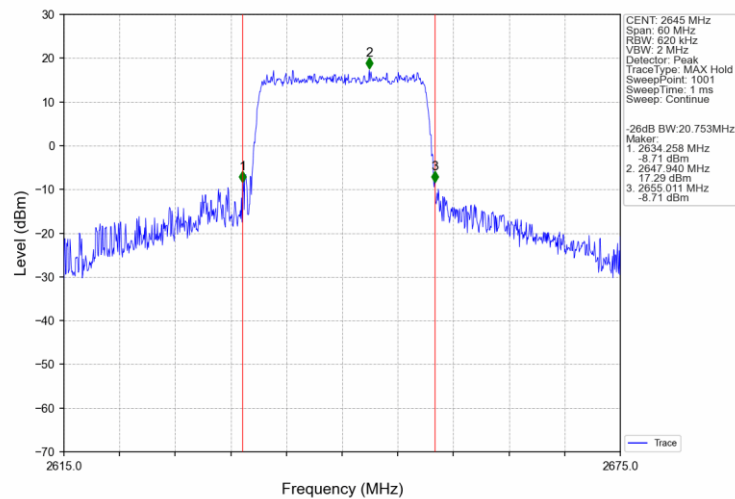
Band41_20MHz_16QAM_LCH_2565MHz_RB_100_0_NTNV



Band41_20MHz_16QAM_MCH_2605MHz_RB_100_0_NTNV



Band41_20MHz_16QAM_HCH_2645MHz_RB_100_0_NTNV



5. Peak-Average Ratio

5.1 Test Result

5.1.1 B41_5MHz

Band: 41 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2557.5	25	0	7.75	<=13	Pass
	2605	25	0	7.28	<=13	Pass
	2652.5	25	0	7.19	<=13	Pass
16QAM	2557.5	25	0	8.35	<=13	Pass
	2605	25	0	7.99	<=13	Pass
	2652.5	25	0	7.85	<=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	7.53	<=13	Pass
	2605	50	0	7.22	<=13	Pass
	2650	50	0	7.27	<=13	Pass
16QAM	2560	50	0	8.28	<=13	Pass
	2605	50	0	8.18	<=13	Pass
	2650	50	0	7.91	<=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	7.38	<=13	Pass
	2605	75	0	7.25	<=13	Pass
	2647.5	75	0	7.25	<=13	Pass
16QAM	2562.5	75	0	8.16	<=13	Pass
	2605	75	0	8.04	<=13	Pass
	2647.5	75	0	8.17	<=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	7.71	<=13	Pass
	2605	100	0	7.78	<=13	Pass
	2645	100	0	7.76	<=13	Pass
16QAM	2565	100	0	8.73	<=13	Pass
	2605	100	0	8.59	<=13	Pass
	2645	100	0	8.71	<=13	Pass

