

**Appendix A.18****1. Effective (Isotropic) Radiated Power Output Data****1.1 Test Result****1.1.1 B41_5MHz_EIRP**

Band: 41 / Bandwidth: 5MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2498.5	1	0	22.49	-0.30	22.19	<=33.01	Pass
			13	22.42	-0.30	22.12	<=33.01	Pass
			24	22.51	-0.30	22.21	<=33.01	Pass
		12	0	21.77	-0.30	21.47	<=33.01	Pass
			6	21.75	-0.30	21.45	<=33.01	Pass
			13	21.77	-0.30	21.47	<=33.01	Pass
		25	0	21.68	-0.30	21.38	<=33.01	Pass
	2593	1	0	22.26	-0.30	21.96	<=33.01	Pass
			13	22.32	-0.30	22.02	<=33.01	Pass
			24	22.33	-0.30	22.03	<=33.01	Pass
		12	0	21.68	-0.30	21.38	<=33.01	Pass
			6	21.55	-0.30	21.25	<=33.01	Pass
			13	21.57	-0.30	21.27	<=33.01	Pass
		25	0	21.58	-0.30	21.28	<=33.01	Pass
	2687.5	1	0	22.28	-0.30	21.98	<=33.01	Pass
			13	22.13	-0.30	21.83	<=33.01	Pass
			24	22.15	-0.30	21.85	<=33.01	Pass
		12	0	21.37	-0.30	21.07	<=33.01	Pass
			6	21.28	-0.30	20.98	<=33.01	Pass
			13	21.38	-0.30	21.08	<=33.01	Pass
		25	0	21.25	-0.30	20.95	<=33.01	Pass
16QAM	2498.5	1	0	22.31	-0.30	22.01	<=33.01	Pass
			13	22.27	-0.30	21.97	<=33.01	Pass
			24	22.05	-0.30	21.75	<=33.01	Pass
		12	0	20.53	-0.30	20.23	<=33.01	Pass
			6	20.55	-0.30	20.25	<=33.01	Pass
			13	20.55	-0.30	20.25	<=33.01	Pass
		25	0	20.60	-0.30	20.30	<=33.01	Pass
	2593	1	0	21.11	-0.30	20.81	<=33.01	Pass
			13	21.18	-0.30	20.88	<=33.01	Pass
			24	21.44	-0.30	21.14	<=33.01	Pass
		12	0	20.49	-0.30	20.19	<=33.01	Pass
			6	20.60	-0.30	20.30	<=33.01	Pass



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			13	20.54	-0.30	20.24	<=33.01	Pass
		25	0	20.63	-0.30	20.33	<=33.01	Pass
	2687.5	1	0	21.23	-0.30	20.93	<=33.01	Pass
			13	21.58	-0.30	21.28	<=33.01	Pass
			24	21.23	-0.30	20.93	<=33.01	Pass
		12	0	20.19	-0.30	19.89	<=33.01	Pass
			6	20.16	-0.30	19.86	<=33.01	Pass
			13	20.24	-0.30	19.94	<=33.01	Pass
		25	0	20.26	-0.30	19.96	<=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	2501	1	0	22.62	-0.30	22.32	<=33.01	Pass
			25	22.64	-0.30	22.34	<=33.01	Pass
			49	22.87	-0.30	22.57	<=33.01	Pass
		25	0	21.74	-0.30	21.44	<=33.01	Pass
			13	21.69	-0.30	21.39	<=33.01	Pass
			25	21.87	-0.30	21.57	<=33.01	Pass
		50	0	21.80	-0.30	21.50	<=33.01	Pass
	2593	1	0	22.65	-0.30	22.35	<=33.01	Pass
			25	22.85	-0.30	22.55	<=33.01	Pass
			49	22.67	-0.30	22.37	<=33.01	Pass
		25	0	21.61	-0.30	21.31	<=33.01	Pass
			13	21.57	-0.30	21.27	<=33.01	Pass
			25	21.67	-0.30	21.37	<=33.01	Pass
		50	0	21.60	-0.30	21.30	<=33.01	Pass
	2685	1	0	22.40	-0.30	22.10	<=33.01	Pass
			25	22.51	-0.30	22.21	<=33.01	Pass
			49	22.13	-0.30	21.83	<=33.01	Pass
		25	0	21.46	-0.30	21.16	<=33.01	Pass
			13	21.32	-0.30	21.02	<=33.01	Pass
			25	21.32	-0.30	21.02	<=33.01	Pass
		50	0	21.38	-0.30	21.08	<=33.01	Pass
16QAM	2501	1	0	21.92	-0.30	21.62	<=33.01	Pass
			25	22.23	-0.30	21.93	<=33.01	Pass
			49	22.59	-0.30	22.29	<=33.01	Pass
		25	0	20.84	-0.30	20.54	<=33.01	Pass
			13	20.73	-0.30	20.43	<=33.01	Pass
			25	21.17	-0.30	20.87	<=33.01	Pass



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	2593	50	0	21.01	-0.30	20.71	<=33.01	Pass
		1	0	22.21	-0.30	21.91	<=33.01	Pass
			25	22.32	-0.30	22.02	<=33.01	Pass
			49	22.15	-0.30	21.85	<=33.01	Pass
		25	0	20.71	-0.30	20.41	<=33.01	Pass
			13	20.77	-0.30	20.47	<=33.01	Pass
			25	20.71	-0.30	20.41	<=33.01	Pass
		50	0	20.60	-0.30	20.30	<=33.01	Pass
	2685	1	0	20.97	-0.30	20.67	<=33.01	Pass
			25	21.09	-0.30	20.79	<=33.01	Pass
			49	20.76	-0.30	20.46	<=33.01	Pass
		25	0	20.34	-0.30	20.04	<=33.01	Pass
			13	20.40	-0.30	20.10	<=33.01	Pass
			25	20.25	-0.30	19.95	<=33.01	Pass
		50	0	20.29	-0.30	19.99	<=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	2503.5	1	0	22.32	-0.30	22.02	<=33.01	Pass
			38	22.32	-0.30	22.02	<=33.01	Pass
			74	22.27	-0.30	21.97	<=33.01	Pass
		36	0	21.41	-0.30	21.11	<=33.01	Pass
			18	21.66	-0.30	21.36	<=33.01	Pass
			39	21.73	-0.30	21.43	<=33.01	Pass
		75	0	21.58	-0.30	21.28	<=33.01	Pass
	2593	1	0	22.65	-0.30	22.35	<=33.01	Pass
			38	22.67	-0.30	22.37	<=33.01	Pass
			74	22.63	-0.30	22.33	<=33.01	Pass
		36	0	21.63	-0.30	21.33	<=33.01	Pass
			18	21.58	-0.30	21.28	<=33.01	Pass
			39	21.61	-0.30	21.31	<=33.01	Pass
		75	0	21.60	-0.30	21.30	<=33.01	Pass
	2682.5	1	0	22.38	-0.30	22.08	<=33.01	Pass
			38	22.37	-0.30	22.07	<=33.01	Pass
			74	22.13	-0.30	21.83	<=33.01	Pass
		36	0	21.39	-0.30	21.09	<=33.01	Pass
			18	21.38	-0.30	21.08	<=33.01	Pass
			39	21.37	-0.30	21.07	<=33.01	Pass
		75	0	21.24	-0.30	20.94	<=33.01	Pass



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16QAM	2503.5	1	0	21.75	-0.30	21.45	<=33.01	Pass
			38	21.63	-0.30	21.33	<=33.01	Pass
			74	21.70	-0.30	21.40	<=33.01	Pass
		36	0	20.50	-0.30	20.20	<=33.01	Pass
			18	20.75	-0.30	20.45	<=33.01	Pass
			39	20.75	-0.30	20.45	<=33.01	Pass
		75	0	20.57	-0.30	20.27	<=33.01	Pass
	2593	1	0	22.28	-0.30	21.98	<=33.01	Pass
			38	22.09	-0.30	21.79	<=33.01	Pass
			74	22.13	-0.30	21.83	<=33.01	Pass
		36	0	20.77	-0.30	20.47	<=33.01	Pass
			18	20.58	-0.30	20.28	<=33.01	Pass
			39	20.64	-0.30	20.34	<=33.01	Pass
		75	0	20.58	-0.30	20.28	<=33.01	Pass
	2682.5	1	0	21.35	-0.30	21.05	<=33.01	Pass
			38	20.78	-0.30	20.48	<=33.01	Pass
			74	20.89	-0.30	20.59	<=33.01	Pass
		36	0	20.22	-0.30	19.92	<=33.01	Pass
			18	20.27	-0.30	19.97	<=33.01	Pass
			39	20.31	-0.30	20.01	<=33.01	Pass
		75	0	20.28	-0.30	19.98	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.4 B41_20MHz_EIRP

Band: 41 / Bandwidth: 20MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2506	1	0	22.69	-0.30	22.39	<=33.01	Pass
			50	22.87	-0.30	22.57	<=33.01	Pass
			99	22.87	-0.30	22.57	<=33.01	Pass
		50	0	21.71	-0.30	21.41	<=33.01	Pass
			25	21.67	-0.30	21.37	<=33.01	Pass
			50	21.84	-0.30	21.54	<=33.01	Pass
		100	0	21.68	-0.30	21.38	<=33.01	Pass
	2593	1	0	22.40	-0.30	22.10	<=33.01	Pass
			50	22.73	-0.30	22.43	<=33.01	Pass
			99	22.48	-0.30	22.18	<=33.01	Pass
		50	0	21.59	-0.30	21.29	<=33.01	Pass
			25	21.54	-0.30	21.24	<=33.01	Pass
			50	21.65	-0.30	21.35	<=33.01	Pass
		100	0	21.62	-0.30	21.32	<=33.01	Pass
	2680	1	0	22.08	-0.30	21.78	<=33.01	Pass



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16QAM	2506		50	22.47	-0.30	22.17	<=33.01	Pass	
			99	22.11	-0.30	21.81	<=33.01	Pass	
		50	0	21.33	-0.30	21.03	<=33.01	Pass	
			25	21.39	-0.30	21.09	<=33.01	Pass	
			50	21.35	-0.30	21.05	<=33.01	Pass	
		100	0	21.29	-0.30	20.99	<=33.01	Pass	
			0	22.26	-0.30	21.96	<=33.01	Pass	
	2593	1	50	22.35	-0.30	22.05	<=33.01	Pass	
			99	22.26	-0.30	21.96	<=33.01	Pass	
			50	0	20.66	-0.30	20.36	<=33.01	Pass
		25		20.71	-0.30	20.41	<=33.01	Pass	
		50		20.85	-0.30	20.55	<=33.01	Pass	
		100	0	20.75	-0.30	20.45	<=33.01	Pass	
			0	21.72	-0.30	21.42	<=33.01	Pass	
		2593	1	50	21.69	-0.30	21.39	<=33.01	Pass
				99	21.34	-0.30	21.04	<=33.01	Pass
				0	20.65	-0.30	20.35	<=33.01	Pass
			50	25	20.75	-0.30	20.45	<=33.01	Pass
				50	20.61	-0.30	20.31	<=33.01	Pass
				100	0	20.58	-0.30	20.28	<=33.01
			2680	1	0	21.75	-0.30	21.45	<=33.01
		50			22.25	-0.30	21.95	<=33.01	Pass
		99			22.02	-0.30	21.72	<=33.01	Pass
		50		0	20.44	-0.30	20.14	<=33.01	Pass
				25	20.41	-0.30	20.11	<=33.01	Pass
				50	20.44	-0.30	20.14	<=33.01	Pass
		100		0	20.33	-0.30	20.03	<=33.01	Pass
Note1: EIRP=Conducted Power+Antenna Gain									

2. Frequency Stability

2.1 Test Result

2.1.1 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	2593	50	0	20	LV	4.921	0.0019	-2.5 to 2.5	Pass
					NV	7.410	0.0029	-2.5 to 2.5	Pass
					HV	2.890	0.0011	-2.5 to 2.5	Pass
				-30	NV	8.984	0.0035	-2.5 to 2.5	Pass
				-20	NV	7.753	0.0030	-2.5 to 2.5	Pass



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				-10	NV	6.723	0.0026	-2.5 to 2.5	Pass
				0	NV	6.723	0.0026	-2.5 to 2.5	Pass
				10	NV	9.212	0.0036	-2.5 to 2.5	Pass
				30	NV	9.899	0.0038	-2.5 to 2.5	Pass
				40	NV	10.114	0.0039	-2.5 to 2.5	Pass
				50	NV	5.951	0.0023	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band41_OBW

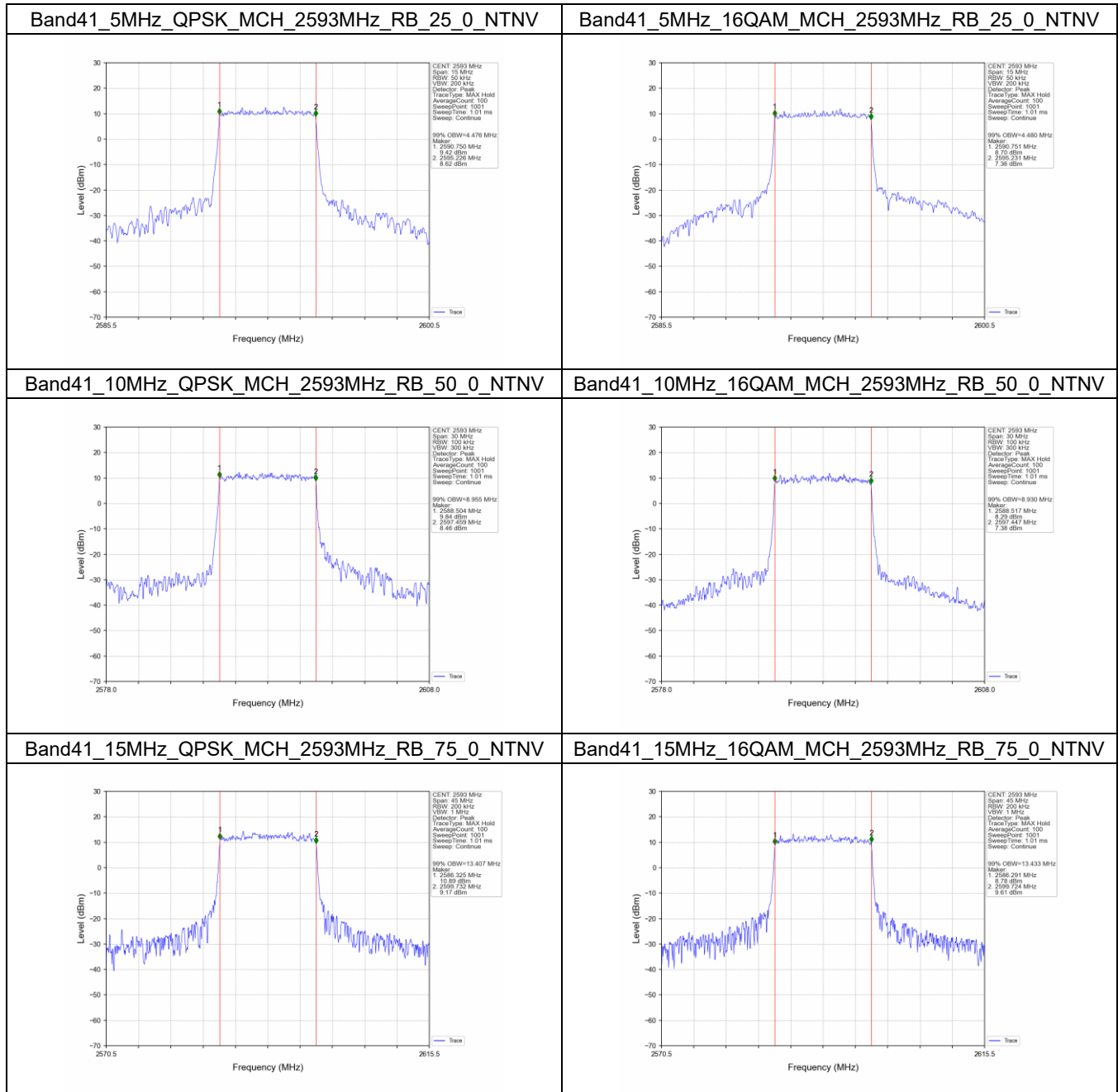
Band: 41 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2593	25	0	4.476	/	Pass
	16QAM	2593	25	0	4.480	/	Pass
10	QPSK	2593	50	0	8.955	/	Pass
	16QAM	2593	50	0	8.930	/	Pass
15	QPSK	2593	75	0	13.407	/	Pass
	16QAM	2593	75	0	13.433	/	Pass
20	QPSK	2593	100	0	17.873	/	Pass
	16QAM	2593	100	0	17.870	/	Pass

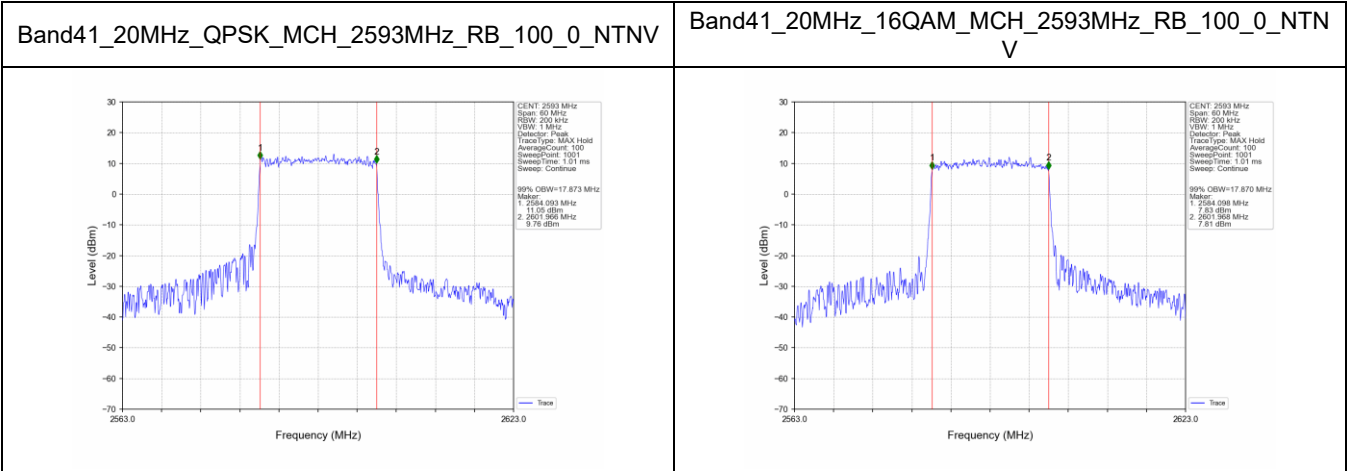
3.1.2 Band41_XDB

Band: 41 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2593	25	0	4.906	/	Pass
	16QAM	2593	25	0	4.869	/	Pass
10	QPSK	2593	50	0	9.773	/	Pass
	16QAM	2593	50	0	9.609	/	Pass
15	QPSK	2593	75	0	14.515	/	Pass
	16QAM	2593	75	0	14.507	/	Pass
20	QPSK	2593	100	0	19.160	/	Pass
	16QAM	2593	100	0	19.120	/	Pass

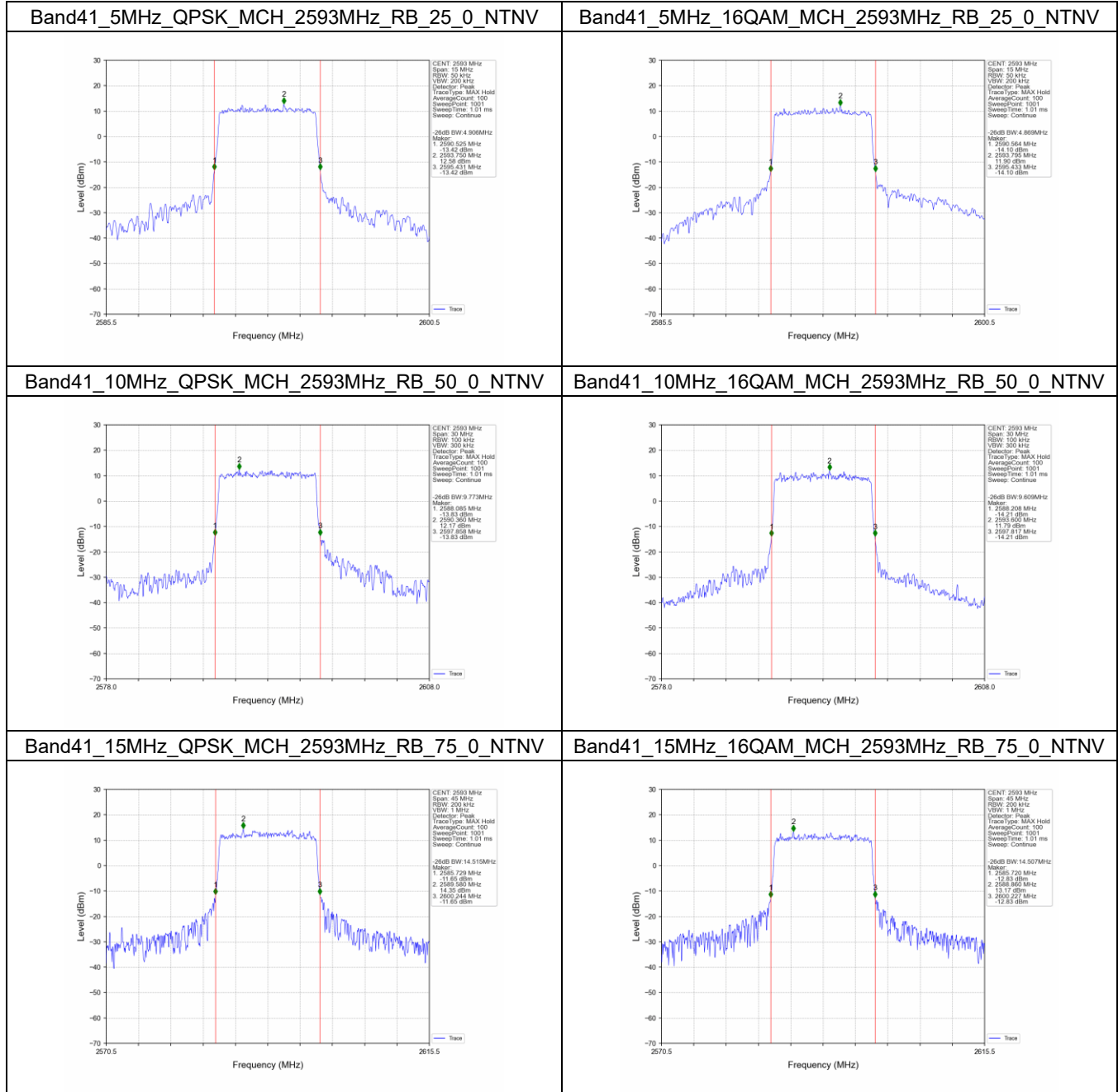
3.2 Test Graph

3.2.1 Band41_OBW





3.2.2 Band41_XDB

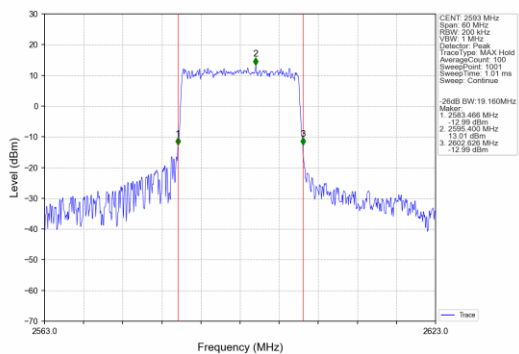




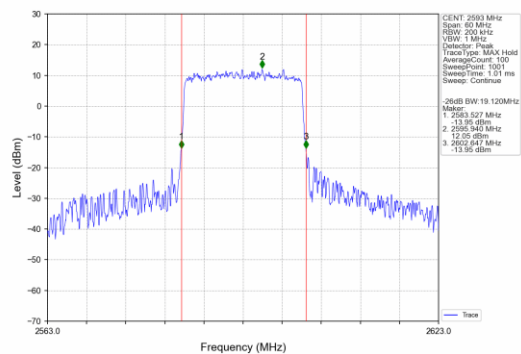
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Band41_20MHz_QPSK_MCH_2593MHz_RB_100_0_NTNV



Band41_20MHz_16QAM_MCH_2593MHz_RB_100_0_NTN
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4. Peak-Average Ratio

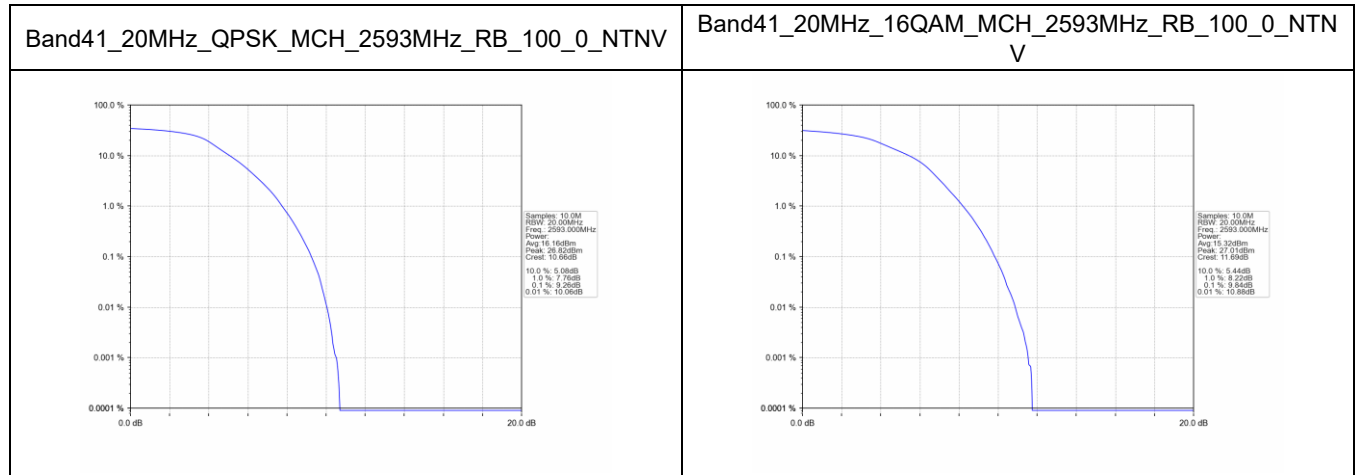
4.1 Test Result

4.1.1 B41_20MHz

Band: 41 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2593	100	0	9.26	<=13	Pass
16QAM	2593	100	0	9.84	<=13	Pass

4.2 Test Graph

4.2.1 B41_20MHz





5. Spurious Emission

5.1 Test Result

5.1.1 B41_5MHz

Band: 41 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2498.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	2593	1	0	Refer To Test Graph		Pass
	2687.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass

5.1.2 B41_10MHz

Band: 41 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2501	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	2593	1	0	Refer To Test Graph		Pass
	2685	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass

5.1.3 B41_15MHz

Band: 41 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2503.5	1	0	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
	2593	1	0	Refer To Test Graph		Pass
	2682.5	1	0	Refer To Test Graph		Pass
			74	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass

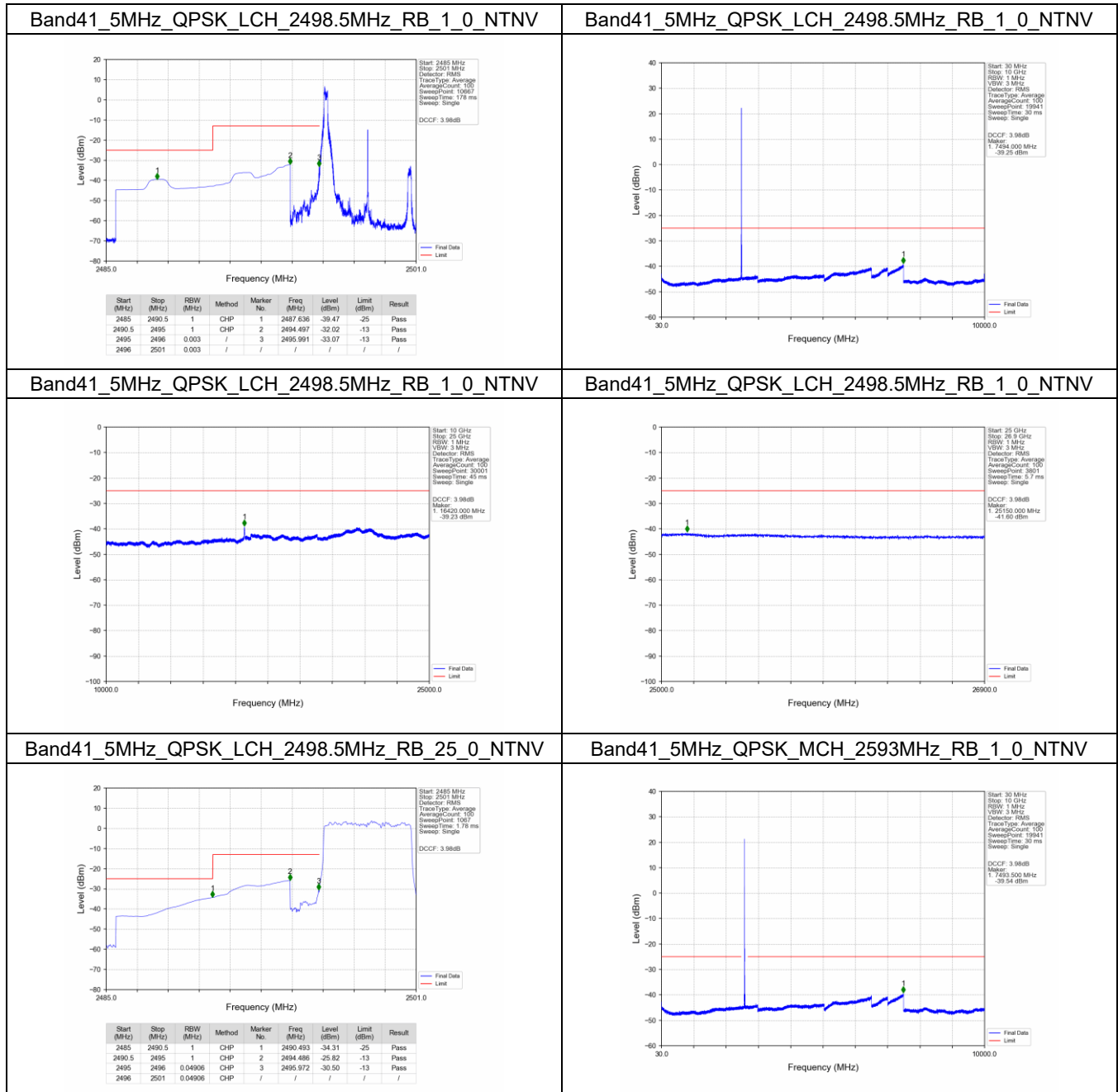
5.1.4 B41_20MHz



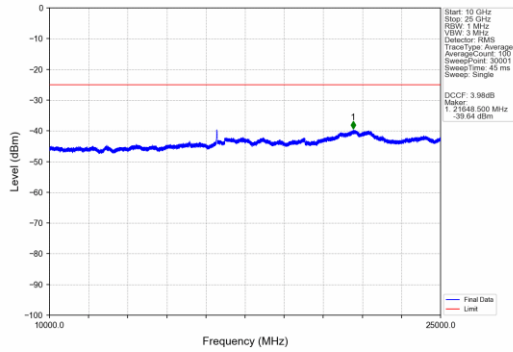
Band: 41 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2506	1	0	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
	2593	1	0	Refer To Test Graph		Pass
	2680	1	0	Refer To Test Graph		Pass
			99	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass

5.2 Test Graph

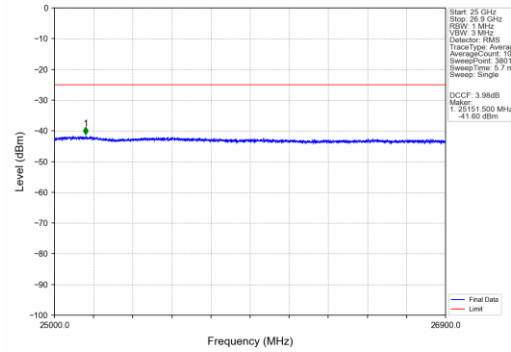
5.2.1 B41_5MHz



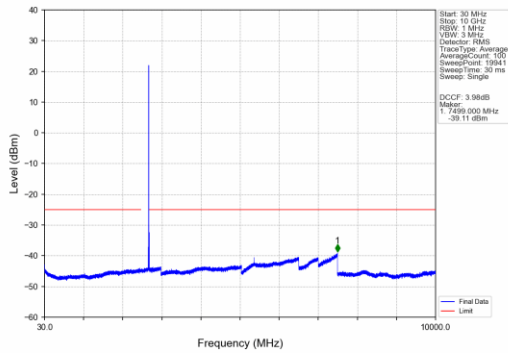
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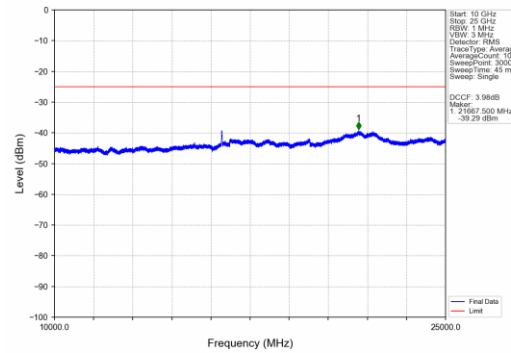
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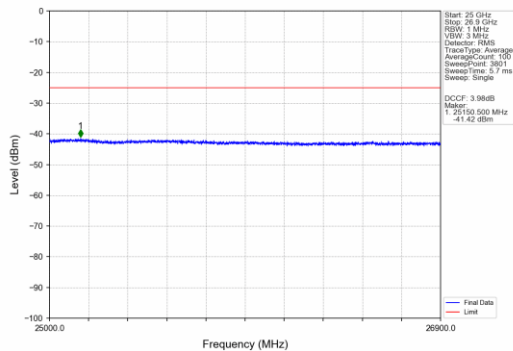
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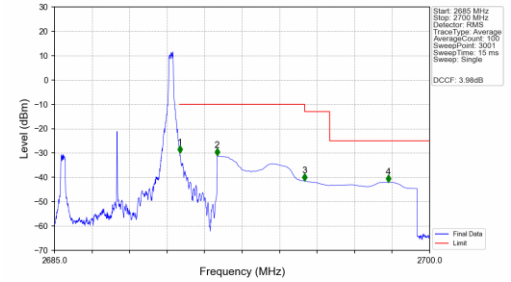
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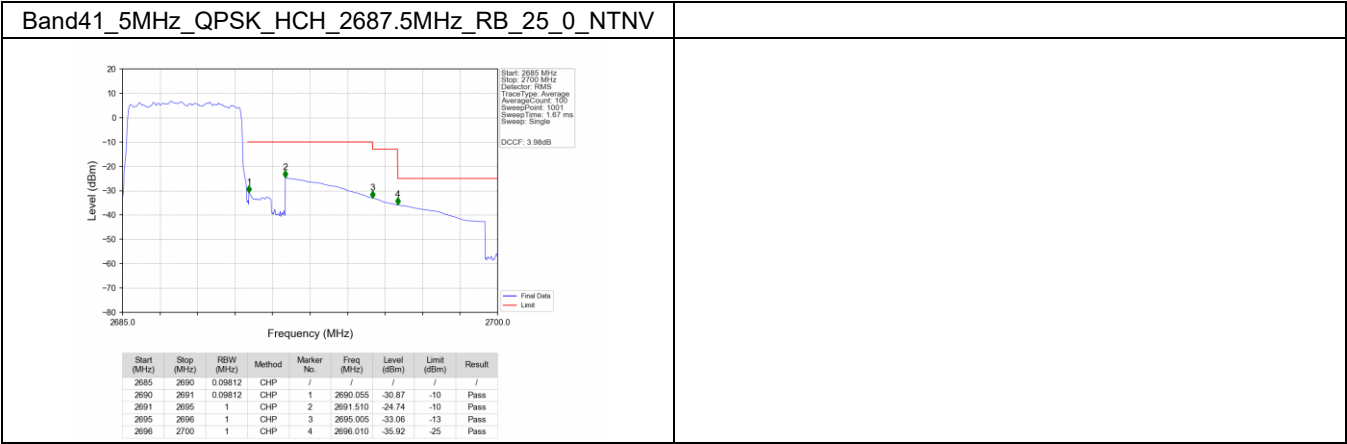
Band41_5MHz_QPSK_HCH_2687.5MHz_RB_1_0_NTNV



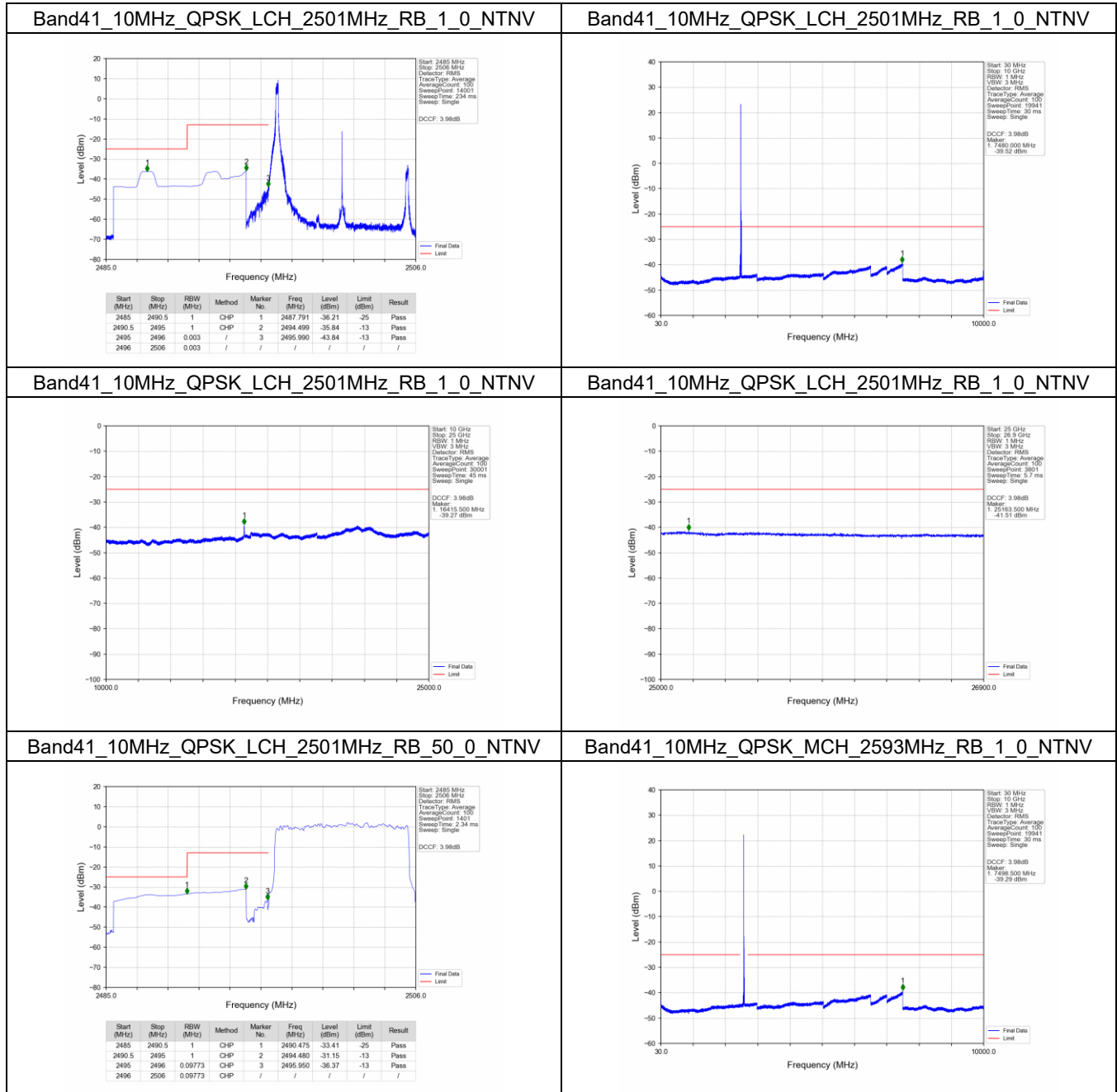
Band41_5MHz_QPSK_HCH_2687.5MHz_RB_1_24_NTNV



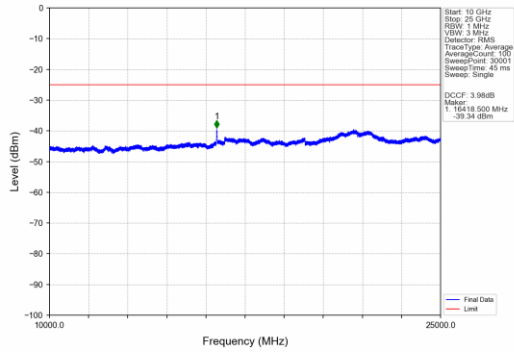
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2685	2690	0.01	/	/	/	/	/	/
2690	2691	0.01	/	1	2690.010	-30.06	-10	Pass
2691	2695	1	CHP	2	2691.500	-31.13	-10	Pass
2695	2696	1	CHP	3	2695.005	-41.64	-13	Pass
2696	2700	1	CHP	4	2698.350	-42.02	-25	Pass



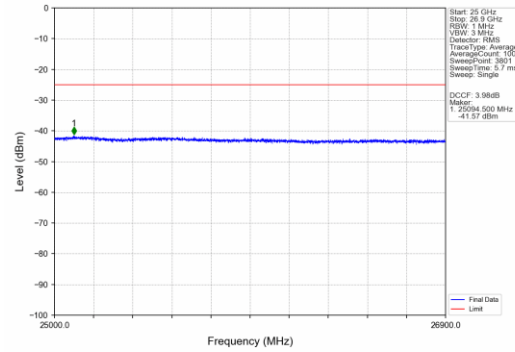
5.2.2 B41_10MHz



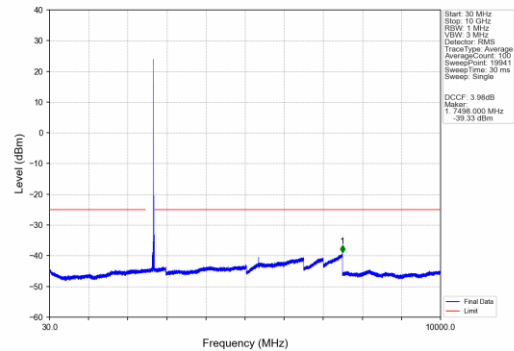
Band41_10MHz_QPSK_MCH_2593MHz_RB_1_0_NTNV



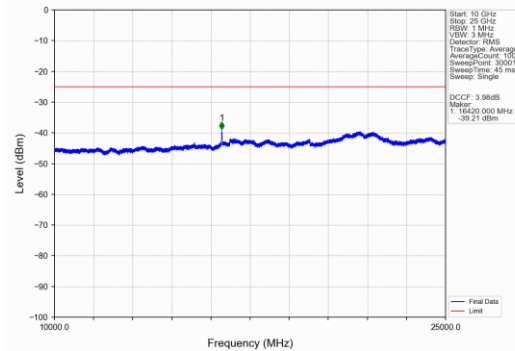
Band41_10MHz_QPSK_MCH_2593MHz_RB_1_0_NTNV



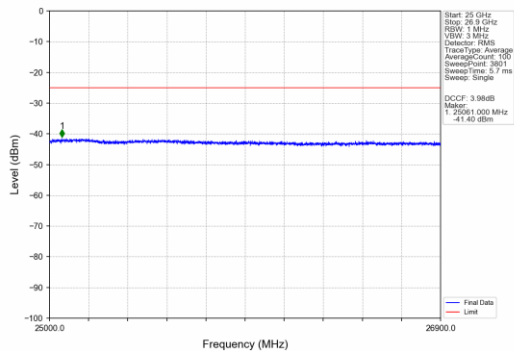
Band41_10MHz_QPSK_HCH_2685MHz_RB_1_0_NTNV



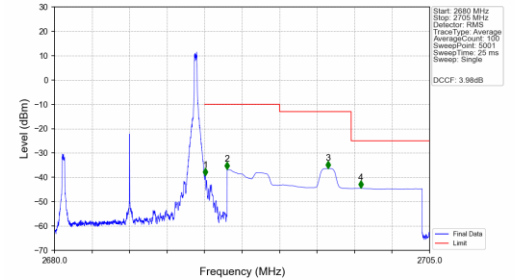
Band41_10MHz_QPSK_HCH_2685MHz_RB_1_0_NTNV



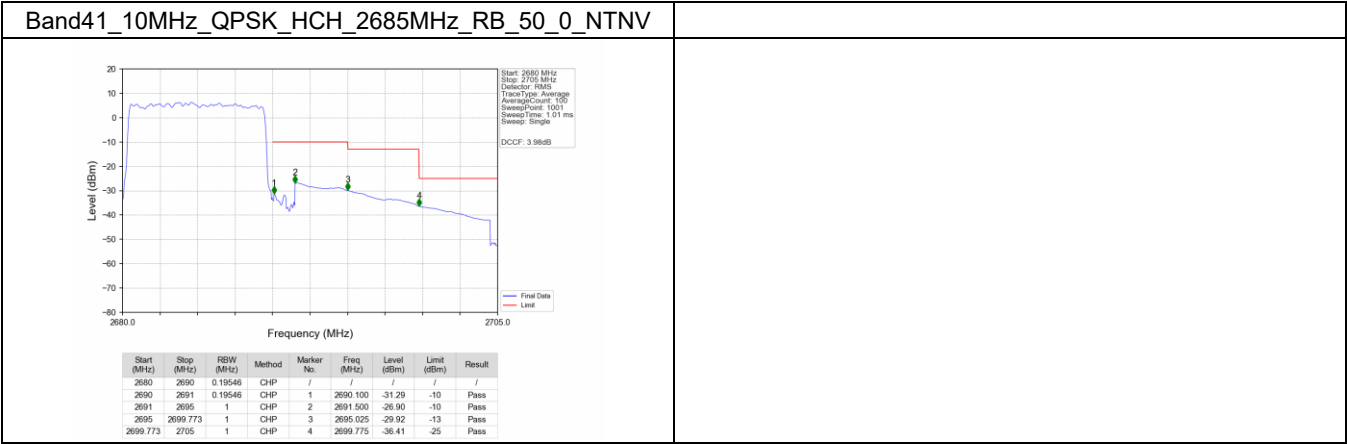
Band41_10MHz_QPSK_HCH_2685MHz_RB_1_0_NTNV



Band41_10MHz_QPSK_HCH_2685MHz_RB_1_49_NTNV

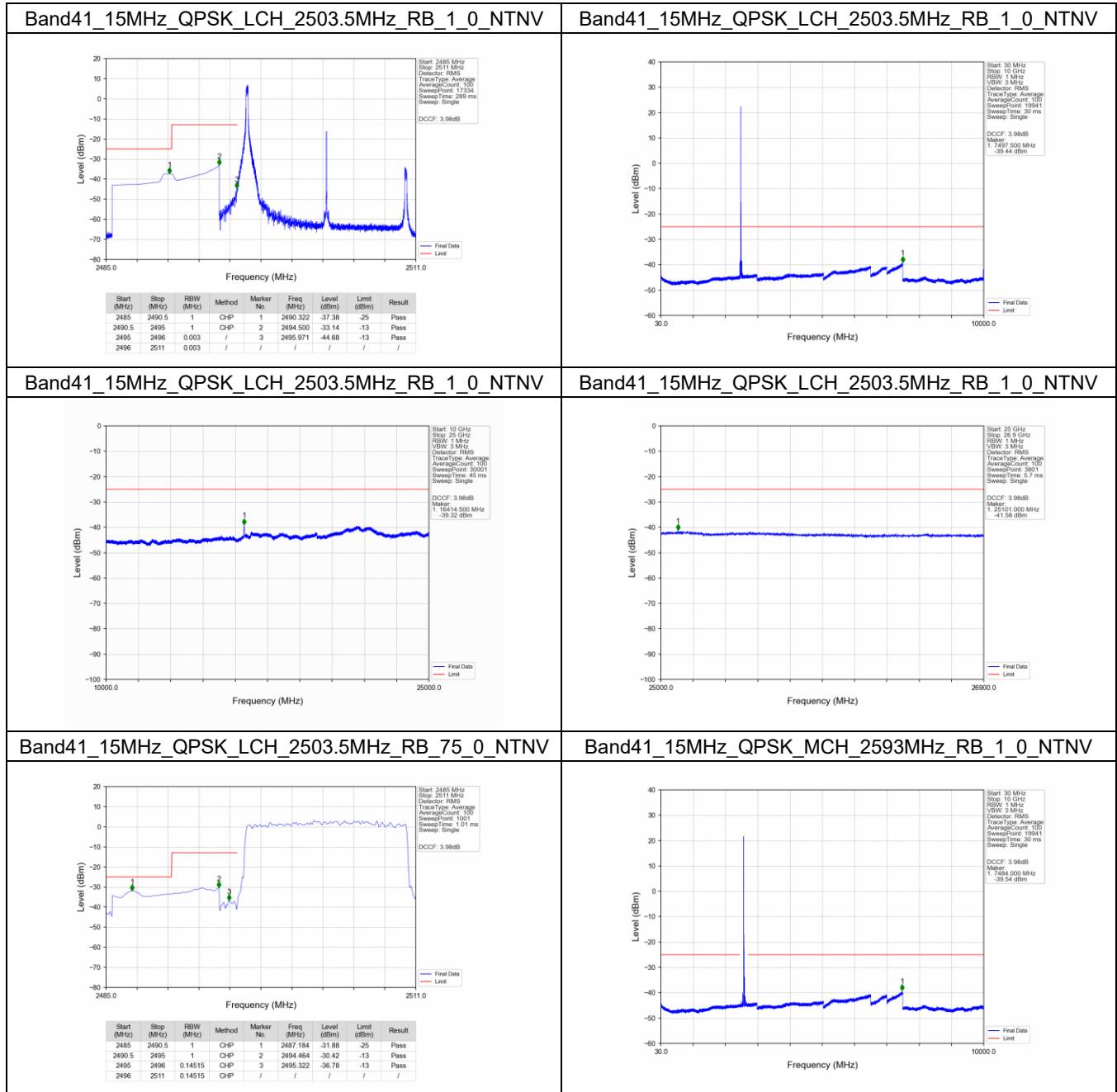


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2680	2690	0.01	/	/	/	/	/	/
2690	2691	0.01	/	1	2690.050	-39.38	-10	Pass
2691	2695	1	CHP	2	2691.500	-36.88	-10	Pass
2695	2699.773	1	CHP	3	2698.230	-36.39	-13	Pass
2699.773	2705	1	CHP	4	2700.410	-44.51	-25	Pass

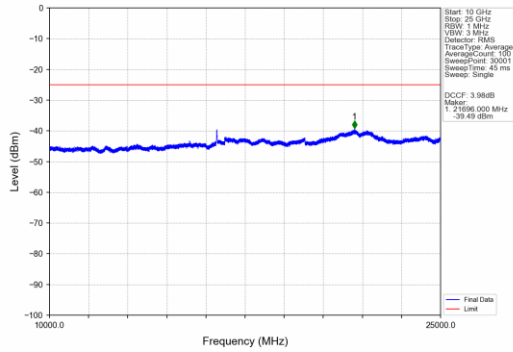




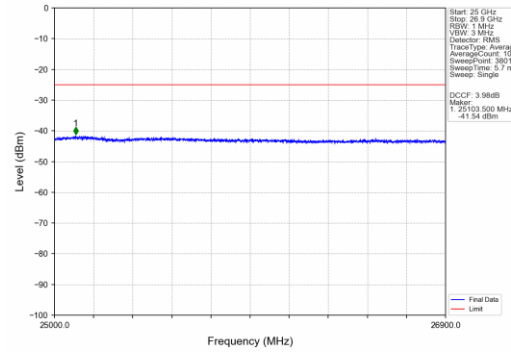
5.2.3 B41_15MHz



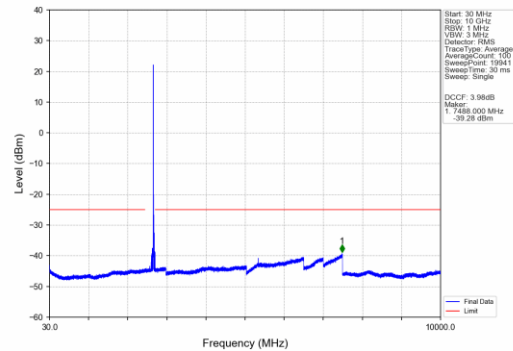
Band41_15MHz_QPSK_MCH_2593MHz_RB_1_0_NTNV



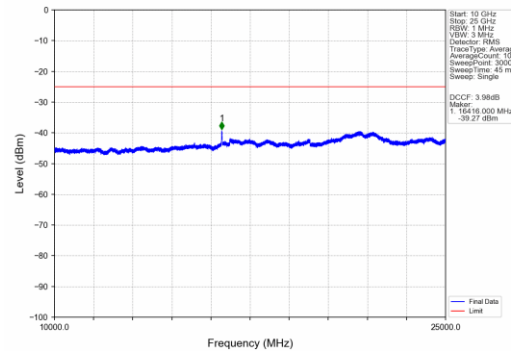
Band41_15MHz_QPSK_MCH_2593MHz_RB_1_0_NTNV



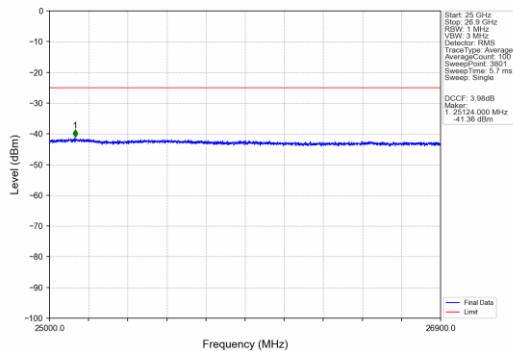
Band41_15MHz_QPSK_HCH_2682.5MHz_RB_1_0_NTNV



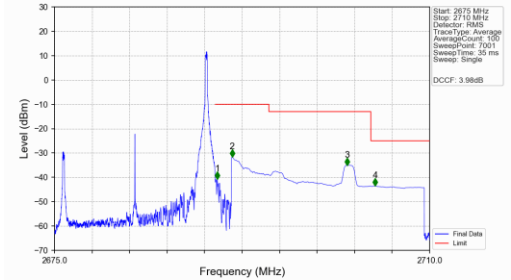
Band41_15MHz_QPSK_HCH_2682.5MHz_RB_1_0_NTNV



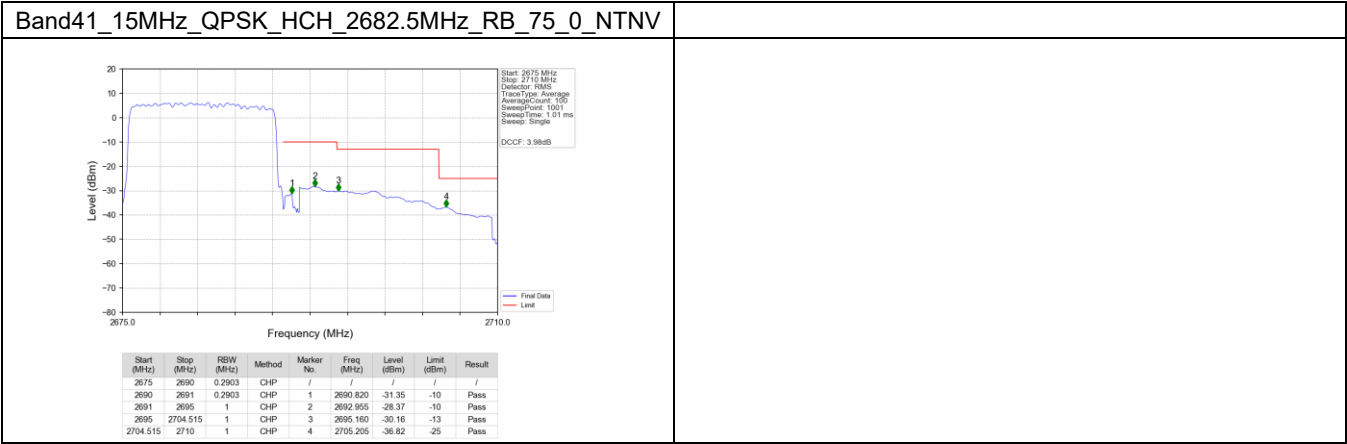
Band41_15MHz_QPSK_HCH_2682.5MHz_RB_1_0_NTNV



Band41_15MHz_QPSK_HCH_2682.5MHz_RB_1_74_NTNV

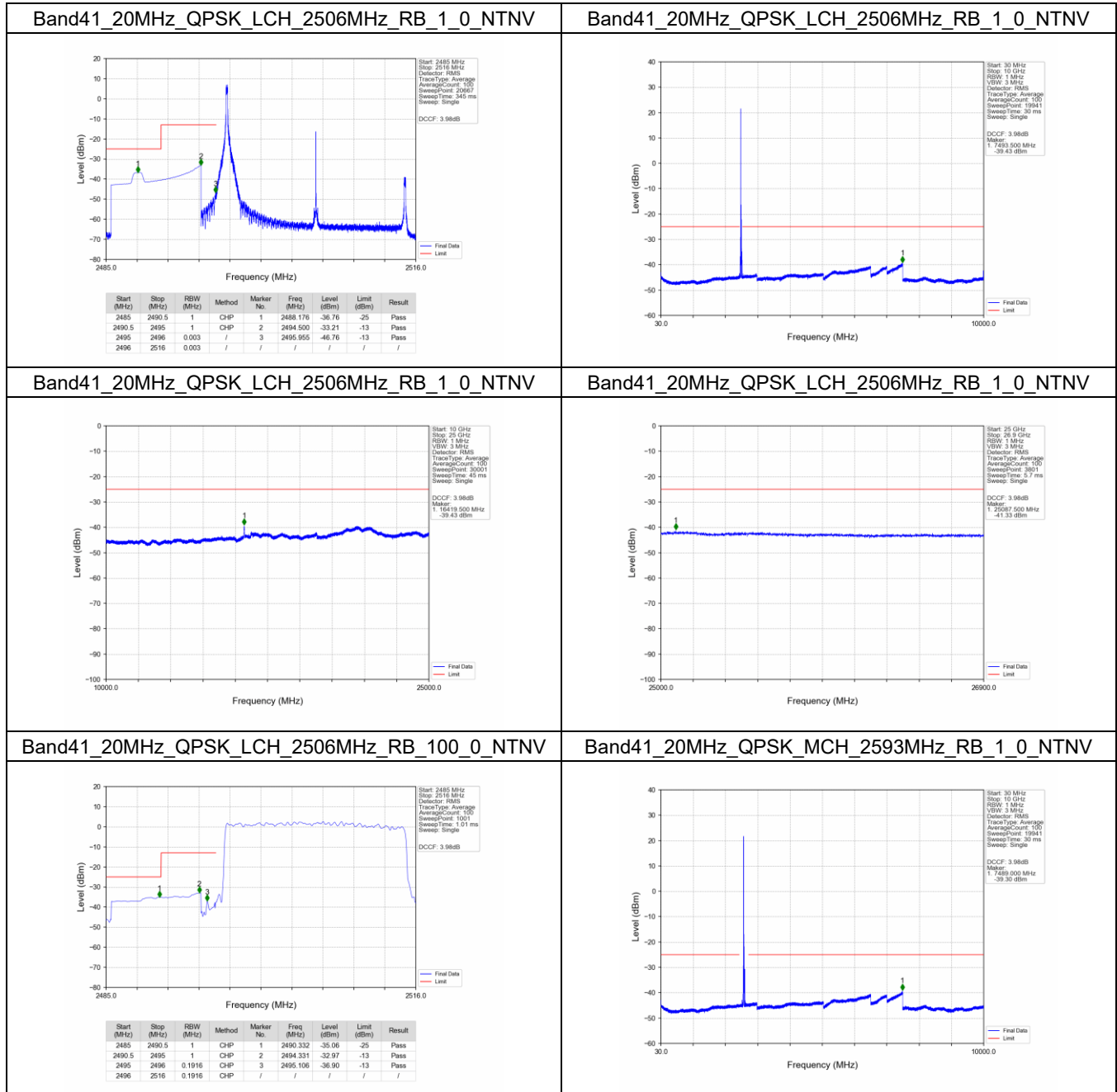


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2675	2690	0.01	/	/	/	/	/	/
2690	2691	0.01	/	1	2690.190	-40.86	-10	Pass
2691	2695	1	CHP	2	2691.575	-31.71	-10	Pass
2695	2704.515	1	CHP	3	2702.310	-35.08	-13	Pass
2704.515	2710	1	CHP	4	2704.920	-43.55	-25	Pass

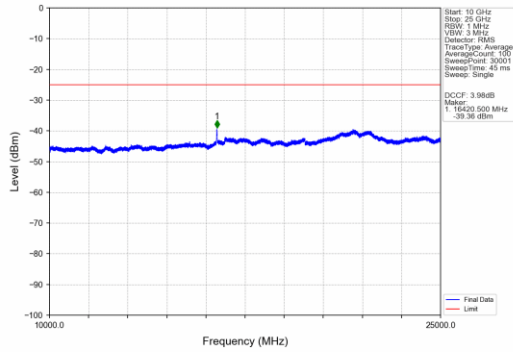




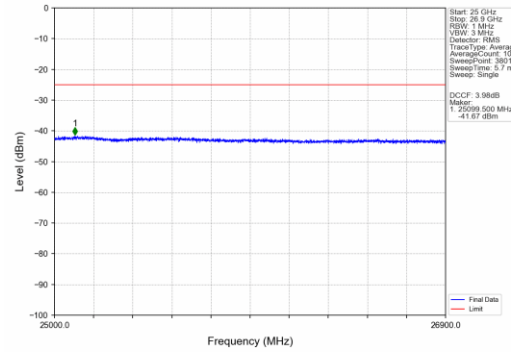
5.2.4 B41_20MHz



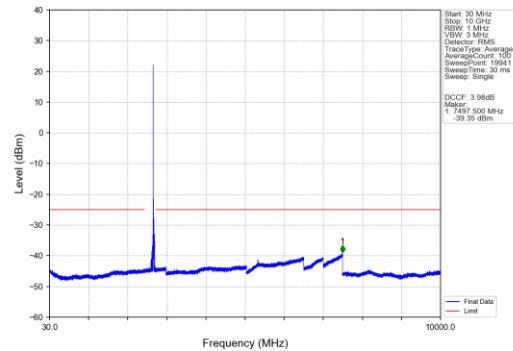
Band41_20MHz_QPSK_MCH_2593MHz_RB_1_0_NTNV



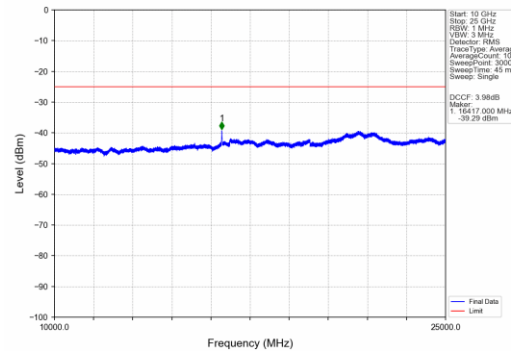
Band41_20MHz_QPSK_MCH_2593MHz_RB_1_0_NTNV



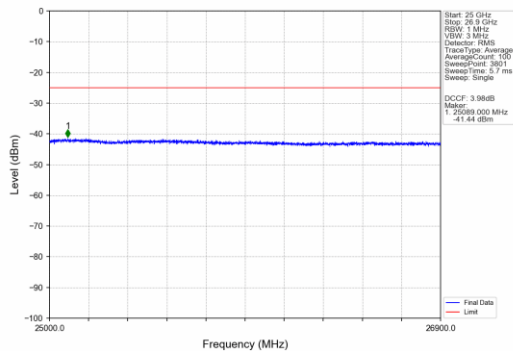
Band41_20MHz_QPSK_HCH_2680MHz_RB_1_0_NTNV



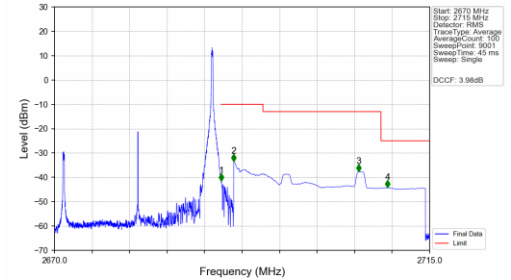
Band41_20MHz_QPSK_HCH_2680MHz_RB_1_0_NTNV



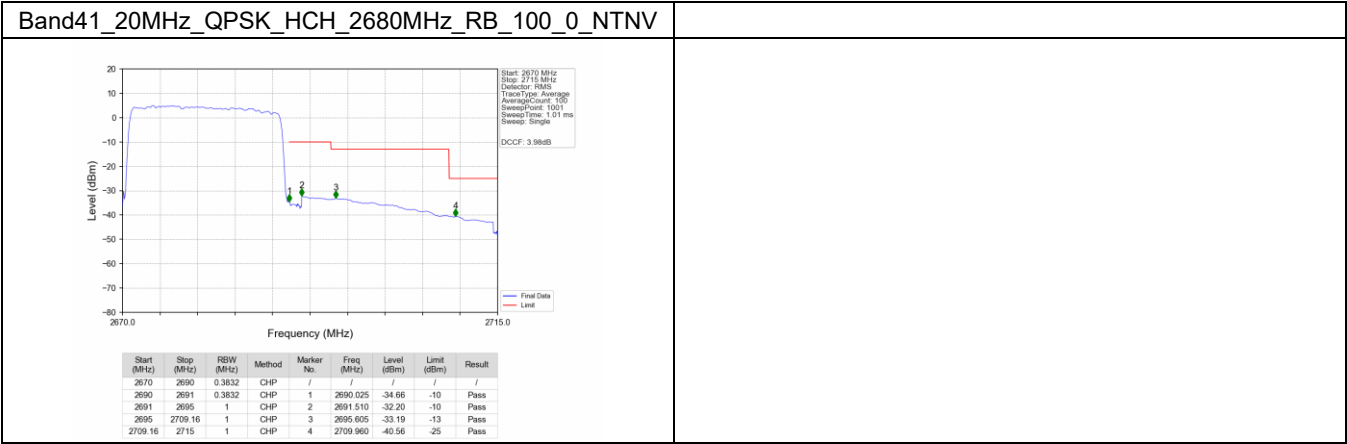
Band41_20MHz_QPSK_HCH_2680MHz_RB_1_0_NTNV



Band41_20MHz_QPSK_HCH_2680MHz_RB_1_99_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2670	2690	0.01	/	/	/	/	/	/
2690	2691	0.01	/	1	2690.005	-41.49	-10	Pass
2691	2695	1	CHP	2	2691.500	-33.53	-10	Pass
2695	2709.16	1	CHP	3	2706.505	-37.68	-13	Pass
2709.16	2715	1	CHP	4	2709.960	-44.23	-25	Pass





6. Frequency Stability (IC)

6.1 Test Result

6.1.1 B41_10MHz

Band: 41 / Bandwidth: 10MHz / NTNV									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	OBW (FL - FH) (MHz)		Limit	Verdict
		Size	Offset			FL	FH		
QPSK	2593	50	0	20	LV	2588.494	2597.481	2496 to 2690	Pass
					NV	2588.489	2597.480	2496 to 2690	Pass
					HV	2588.477	2597.471	2496 to 2690	Pass
				-30	NV	2588.483	2597.465	2496 to 2690	Pass
				-20	NV	2588.468	2597.476	2496 to 2690	Pass
				-10	NV	2588.496	2597.485	2496 to 2690	Pass
				0	NV	2588.477	2597.478	2496 to 2690	Pass
				10	NV	2588.475	2597.475	2496 to 2690	Pass
				30	NV	2588.478	2597.479	2496 to 2690	Pass
				40	NV	2588.494	2597.471	2496 to 2690	Pass
				50	NV	2588.467	2597.469	2496 to 2690	Pass

---End of Attachment---