

**Appendix A.9****1. Effective (Isotropic) Radiated Power Output Data****1.1 Test Result****1.1.1 B7_5MHz_EIRP**

Band: 7 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2502.5	1	0	22.75	-0.30	22.45	<=33.01	Pass
			13	22.67	-0.30	22.37	<=33.01	Pass
			24	22.60	-0.30	22.30	<=33.01	Pass
		12	0	21.63	-0.30	21.33	<=33.01	Pass
			6	21.68	-0.30	21.38	<=33.01	Pass
			13	21.53	-0.30	21.23	<=33.01	Pass
		25	0	21.58	-0.30	21.28	<=33.01	Pass
	2535	1	0	22.92	-0.30	22.62	<=33.01	Pass
			13	23.04	-0.30	22.74	<=33.01	Pass
			24	23.00	-0.30	22.70	<=33.01	Pass
		12	0	21.86	-0.30	21.56	<=33.01	Pass
			6	21.90	-0.30	21.60	<=33.01	Pass
			13	21.87	-0.30	21.57	<=33.01	Pass
		25	0	21.82	-0.30	21.52	<=33.01	Pass
	2567.5	1	0	22.83	-0.30	22.53	<=33.01	Pass
			13	22.84	-0.30	22.54	<=33.01	Pass
			24	22.68	-0.30	22.38	<=33.01	Pass
		12	0	21.71	-0.30	21.41	<=33.01	Pass
			6	21.68	-0.30	21.38	<=33.01	Pass
			13	21.70	-0.30	21.40	<=33.01	Pass
		25	0	21.72	-0.30	21.42	<=33.01	Pass
16QAM	2502.5	1	0	21.32	-0.30	21.02	<=33.01	Pass
			13	21.40	-0.30	21.10	<=33.01	Pass
			24	21.18	-0.30	20.88	<=33.01	Pass
		12	0	20.63	-0.30	20.33	<=33.01	Pass
			6	20.71	-0.30	20.41	<=33.01	Pass
			13	20.62	-0.30	20.32	<=33.01	Pass
		25	0	20.84	-0.30	20.54	<=33.01	Pass
	2535	1	0	21.65	-0.30	21.35	<=33.01	Pass
			13	21.61	-0.30	21.31	<=33.01	Pass
			24	21.50	-0.30	21.20	<=33.01	Pass
		12	0	20.76	-0.30	20.46	<=33.01	Pass
			6	20.92	-0.30	20.62	<=33.01	Pass



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			13	20.90	-0.30	20.60	<=33.01	Pass
		25	0	20.82	-0.30	20.52	<=33.01	Pass
	2567.5	1	0	21.43	-0.30	21.13	<=33.01	Pass
			13	21.35	-0.30	21.05	<=33.01	Pass
			24	21.12	-0.30	20.82	<=33.01	Pass
			0	20.69	-0.30	20.39	<=33.01	Pass
	12		6	20.68	-0.30	20.38	<=33.01	Pass
			13	20.64	-0.30	20.34	<=33.01	Pass
			0	20.80	-0.30	20.50	<=33.01	Pass
	25		0	20.80	-0.30	20.50	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.2 B7_10MHz_EIRP

Band: 7 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2505	1	0	22.75	-0.30	22.45	<=33.01	Pass
			25	22.96	-0.30	22.66	<=33.01	Pass
			49	22.59	-0.30	22.29	<=33.01	Pass
		25	0	21.58	-0.30	21.28	<=33.01	Pass
			13	21.56	-0.30	21.26	<=33.01	Pass
			25	21.55	-0.30	21.25	<=33.01	Pass
		50	0	21.63	-0.30	21.33	<=33.01	Pass
	2535	1	0	23.01	-0.30	22.71	<=33.01	Pass
			25	23.24	-0.30	22.94	<=33.01	Pass
			49	23.08	-0.30	22.78	<=33.01	Pass
		25	0	21.86	-0.30	21.56	<=33.01	Pass
			13	21.89	-0.30	21.59	<=33.01	Pass
			25	21.93	-0.30	21.63	<=33.01	Pass
		50	0	21.94	-0.30	21.64	<=33.01	Pass
	2565	1	0	23.05	-0.30	22.75	<=33.01	Pass
			25	23.05	-0.30	22.75	<=33.01	Pass
			49	22.89	-0.30	22.59	<=33.01	Pass
		25	0	21.81	-0.30	21.51	<=33.01	Pass
			13	21.81	-0.30	21.51	<=33.01	Pass
			25	21.83	-0.30	21.53	<=33.01	Pass
		50	0	21.80	-0.30	21.50	<=33.01	Pass
16QAM	2505	1	0	21.26	-0.30	20.96	<=33.01	Pass
			25	21.50	-0.30	21.20	<=33.01	Pass
			49	21.11	-0.30	20.81	<=33.01	Pass
		25	0	20.55	-0.30	20.25	<=33.01	Pass
			13	20.69	-0.30	20.39	<=33.01	Pass
			25	20.55	-0.30	20.25	<=33.01	Pass



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	2535	50	0	20.79	-0.30	20.49	<=33.01	Pass
		1	0	21.48	-0.30	21.18	<=33.01	Pass
			25	21.76	-0.30	21.46	<=33.01	Pass
			49	21.79	-0.30	21.49	<=33.01	Pass
		25	0	20.78	-0.30	20.48	<=33.01	Pass
			13	21.05	-0.30	20.75	<=33.01	Pass
			25	21.18	-0.30	20.88	<=33.01	Pass
		50	0	21.04	-0.30	20.74	<=33.01	Pass
	2565	1	0	21.44	-0.30	21.14	<=33.01	Pass
			25	21.60	-0.30	21.30	<=33.01	Pass
			49	21.41	-0.30	21.11	<=33.01	Pass
		25	0	21.06	-0.30	20.76	<=33.01	Pass
			13	20.99	-0.30	20.69	<=33.01	Pass
			25	20.85	-0.30	20.55	<=33.01	Pass
		50	0	20.95	-0.30	20.65	<=33.01	Pass
		Note1: EIRP=Conducted Power+Antenna Gain						

1.1.3 B7_15MHz_EIRP

Band: 7 / Bandwidth: 15MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2507.5	1	0	22.77	-0.30	22.47	<=33.01	Pass
			38	22.75	-0.30	22.45	<=33.01	Pass
			74	22.76	-0.30	22.46	<=33.01	Pass
		36	0	21.57	-0.30	21.27	<=33.01	Pass
			18	21.60	-0.30	21.30	<=33.01	Pass
			39	21.52	-0.30	21.22	<=33.01	Pass
		75	0	21.71	-0.30	21.41	<=33.01	Pass
	2535	1	0	23.02	-0.30	22.72	<=33.01	Pass
			38	23.11	-0.30	22.81	<=33.01	Pass
			74	23.04	-0.30	22.74	<=33.01	Pass
		36	0	21.96	-0.30	21.66	<=33.01	Pass
			18	21.94	-0.30	21.64	<=33.01	Pass
			39	21.91	-0.30	21.61	<=33.01	Pass
		75	0	21.85	-0.30	21.55	<=33.01	Pass
	2562.5	1	0	22.98	-0.30	22.68	<=33.01	Pass
			38	23.06	-0.30	22.76	<=33.01	Pass
			74	22.85	-0.30	22.55	<=33.01	Pass
		36	0	21.87	-0.30	21.57	<=33.01	Pass
			18	21.75	-0.30	21.45	<=33.01	Pass
			39	21.79	-0.30	21.49	<=33.01	Pass
		75	0	21.74	-0.30	21.44	<=33.01	Pass



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16QAM	2507.5	1	0	21.38	-0.30	21.08	<=33.01	Pass
			38	21.16	-0.30	20.86	<=33.01	Pass
			74	21.19	-0.30	20.89	<=33.01	Pass
		36	0	20.66	-0.30	20.36	<=33.01	Pass
			18	20.65	-0.30	20.35	<=33.01	Pass
			39	20.52	-0.30	20.22	<=33.01	Pass
		75	0	20.79	-0.30	20.49	<=33.01	Pass
	2535	1	0	21.59	-0.30	21.29	<=33.01	Pass
			38	21.60	-0.30	21.30	<=33.01	Pass
			74	21.70	-0.30	21.40	<=33.01	Pass
		36	0	20.86	-0.30	20.56	<=33.01	Pass
			18	20.95	-0.30	20.65	<=33.01	Pass
			39	20.97	-0.30	20.67	<=33.01	Pass
		75	0	20.86	-0.30	20.56	<=33.01	Pass
	2562.5	1	0	21.49	-0.30	21.19	<=33.01	Pass
			38	21.53	-0.30	21.23	<=33.01	Pass
			74	21.33	-0.30	21.03	<=33.01	Pass
		36	0	20.94	-0.30	20.64	<=33.01	Pass
			18	20.87	-0.30	20.57	<=33.01	Pass
			39	20.74	-0.30	20.44	<=33.01	Pass
		75	0	20.87	-0.30	20.57	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.4 B7_20MHz_EIRP

Band: 7 / Bandwidth: 20MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2510	1	0	22.69	-0.30	22.39	<=33.01	Pass
			50	22.90	-0.30	22.60	<=33.01	Pass
			99	22.83	-0.30	22.53	<=33.01	Pass
		50	0	21.73	-0.30	21.43	<=33.01	Pass
			25	21.53	-0.30	21.23	<=33.01	Pass
			50	21.60	-0.30	21.30	<=33.01	Pass
		100	0	21.70	-0.30	21.40	<=33.01	Pass
	2535	1	0	22.94	-0.30	22.64	<=33.01	Pass
			50	23.23	-0.30	22.93	<=33.01	Pass
			99	22.96	-0.30	22.66	<=33.01	Pass
		50	0	22.06	-0.30	21.76	<=33.01	Pass
			25	21.90	-0.30	21.60	<=33.01	Pass
			50	21.87	-0.30	21.57	<=33.01	Pass
		100	0	21.87	-0.30	21.57	<=33.01	Pass
	2560	1	0	23.03	-0.30	22.73	<=33.01	Pass



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			50	23.04	-0.30	22.74	<=33.01	Pass		
			99	22.77	-0.30	22.47	<=33.01	Pass		
		50	0	21.92	-0.30	21.62	<=33.01	Pass		
			25	21.95	-0.30	21.65	<=33.01	Pass		
			50	21.77	-0.30	21.47	<=33.01	Pass		
		100	0	21.82	-0.30	21.52	<=33.01	Pass		
16QAM	2510	1	0	21.27	-0.30	20.97	<=33.01	Pass		
			50	21.53	-0.30	21.23	<=33.01	Pass		
			99	21.18	-0.30	20.88	<=33.01	Pass		
			50	0	20.83	-0.30	20.53	<=33.01	Pass	
		25	20.73	-0.30	20.43	<=33.01	Pass			
		50	20.58	-0.30	20.28	<=33.01	Pass			
		100	0	20.65	-0.30	20.35	<=33.01	Pass		
		2535	1	0	21.49	-0.30	21.19	<=33.01	Pass	
				50	21.88	-0.30	21.58	<=33.01	Pass	
				99	21.43	-0.30	21.13	<=33.01	Pass	
	50		0	21.05	-0.30	20.75	<=33.01	Pass		
			25	21.05	-0.30	20.75	<=33.01	Pass		
			50	21.01	-0.30	20.71	<=33.01	Pass		
	100	0	20.88	-0.30	20.58	<=33.01	Pass			
	2560	1	0	21.61	-0.30	21.31	<=33.01	Pass		
			50	21.82	-0.30	21.52	<=33.01	Pass		
			99	21.50	-0.30	21.20	<=33.01	Pass		
		50	0	21.00	-0.30	20.70	<=33.01	Pass		
			25	20.98	-0.30	20.68	<=33.01	Pass		
			50	20.93	-0.30	20.63	<=33.01	Pass		
		100	0	21.07	-0.30	20.77	<=33.01	Pass		
		Note1: EIRP=Conducted Power+Antenna Gain								

2. Frequency Stability

2.1 Test Result

2.1.1 B7_10MHz

Band: 7 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2535	50	0	20	LV	2.600	0.0010	-2.5 to 2.5	Pass
					NV	-1.200	-0.0005	-2.5 to 2.5	Pass
					HV	-1.400	-0.0006	-2.5 to 2.5	Pass
				-30	NV	0.600	0.0002	-2.5 to 2.5	Pass
				-20	NV	-0.100	0.0000	-2.5 to 2.5	Pass



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				-10	NV	-1.800	-0.0007	-2.5 to 2.5	Pass
				0	NV	0.100	0.0000	-2.5 to 2.5	Pass
				10	NV	0.300	0.0001	-2.5 to 2.5	Pass
				30	NV	-7.700	-0.0030	-2.5 to 2.5	Pass
				40	NV	-0.400	-0.0002	-2.5 to 2.5	Pass
				50	NV	-2.400	-0.0009	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band7_OBW

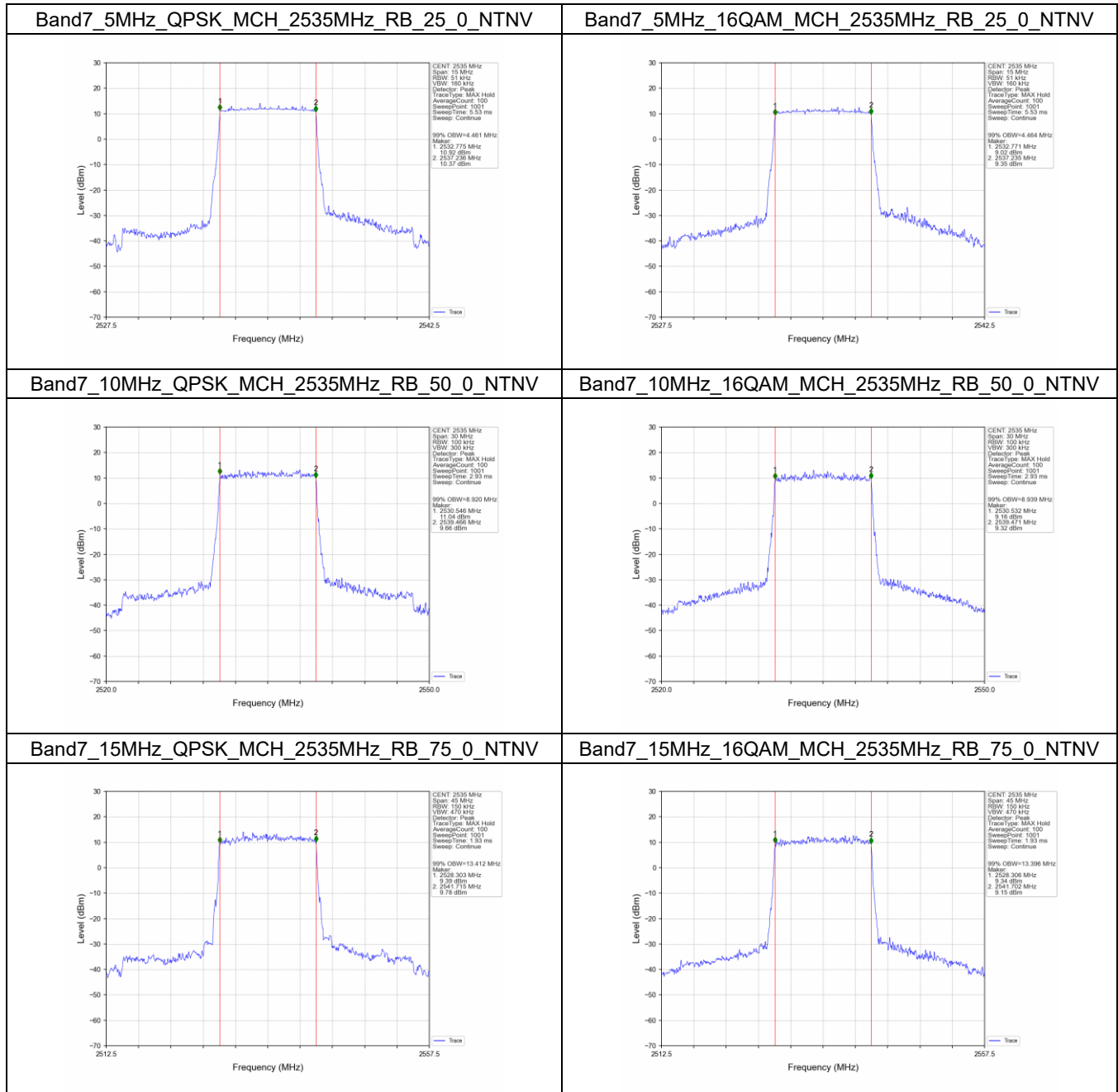
Band: 7 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2535	25	0	4.461	/	Pass
	16QAM	2535	25	0	4.464	/	Pass
10	QPSK	2535	50	0	8.920	/	Pass
	16QAM	2535	50	0	8.939	/	Pass
15	QPSK	2535	75	0	13.412	/	Pass
	16QAM	2535	75	0	13.396	/	Pass
20	QPSK	2535	100	0	17.816	/	Pass
	16QAM	2535	100	0	17.881	/	Pass

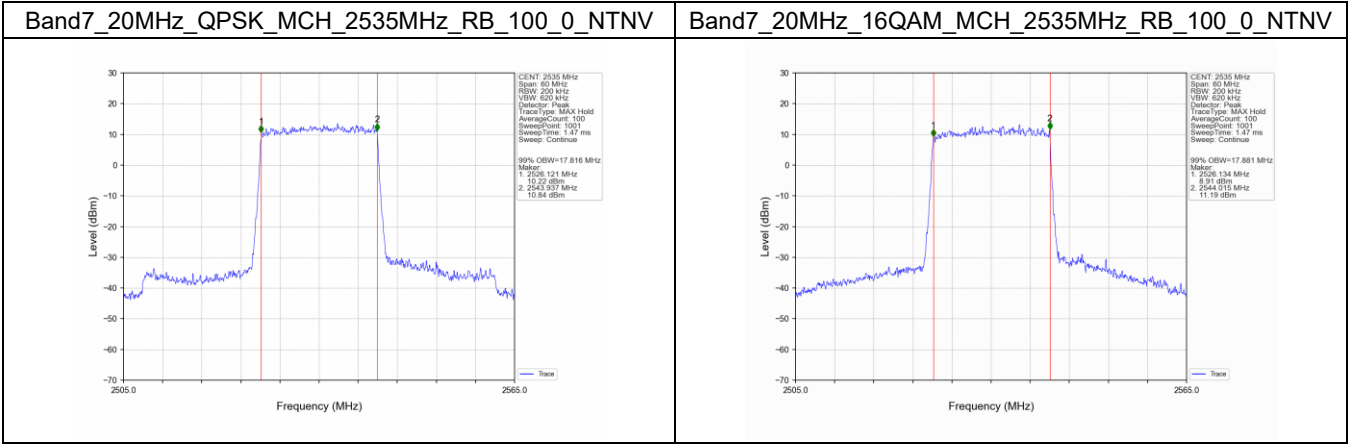
3.1.2 Band7_XDB

Band: 7 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2535	25	0	4.842	/	Pass
	16QAM	2535	25	0	4.923	/	Pass
10	QPSK	2535	50	0	9.649	/	Pass
	16QAM	2535	50	0	9.688	/	Pass
15	QPSK	2535	75	0	14.397	/	Pass
	16QAM	2535	75	0	14.376	/	Pass
20	QPSK	2535	100	0	18.999	/	Pass
	16QAM	2535	100	0	19.040	/	Pass

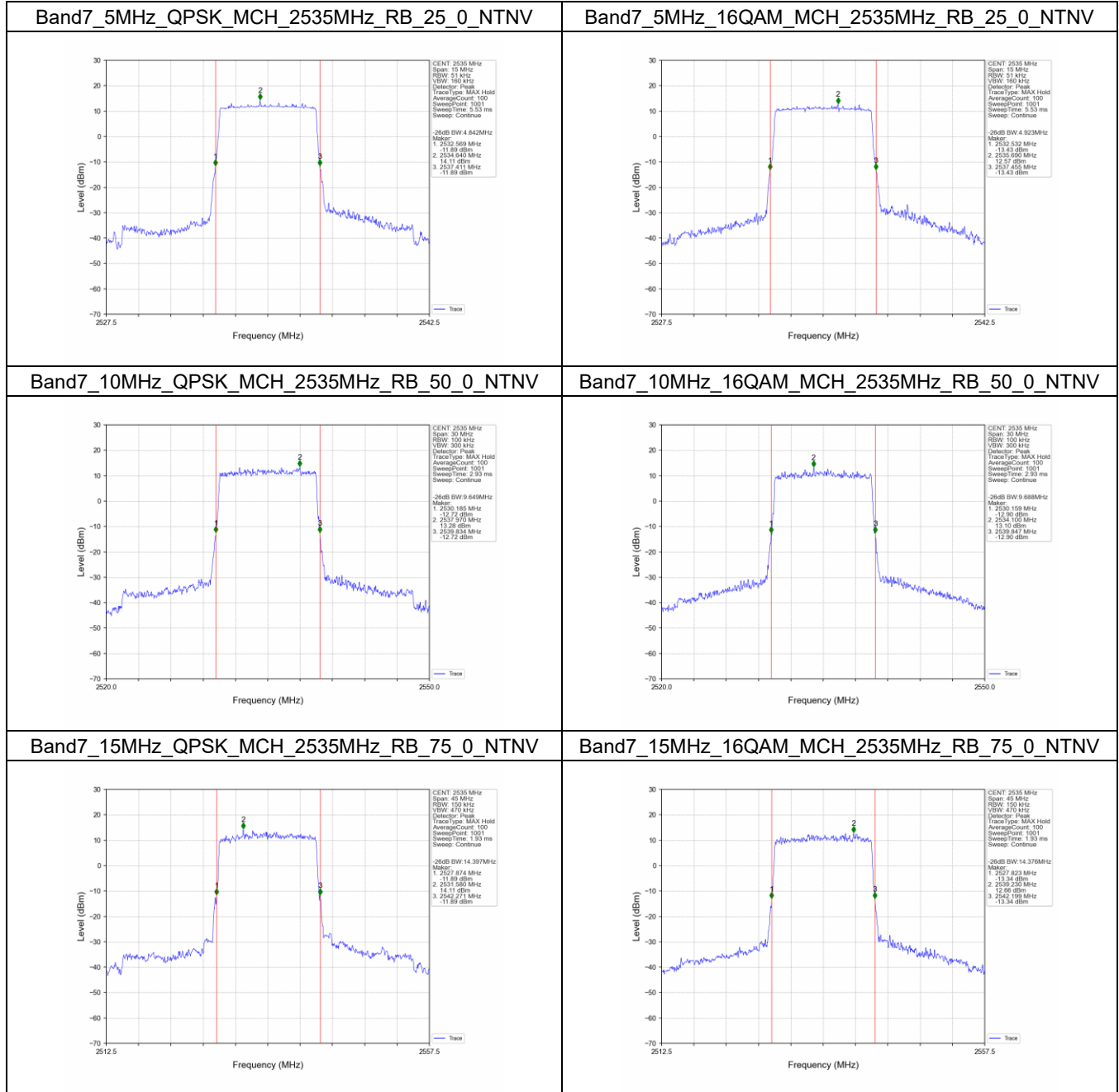
3.2 Test Graph

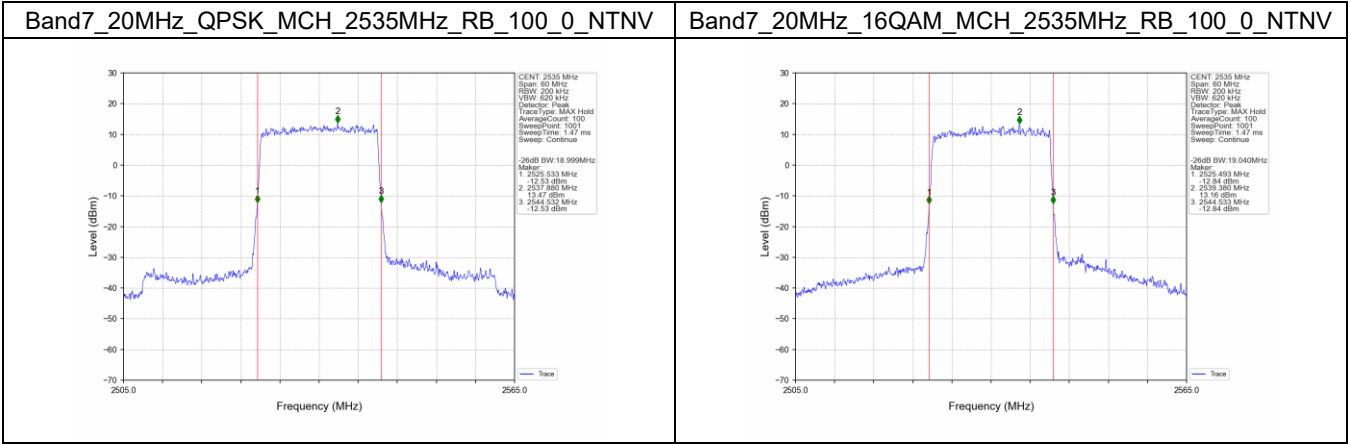
3.2.1 Band7_OBW





3.2.2 Band7_XDB







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4. Peak-Average Ratio

4.1 Test Result

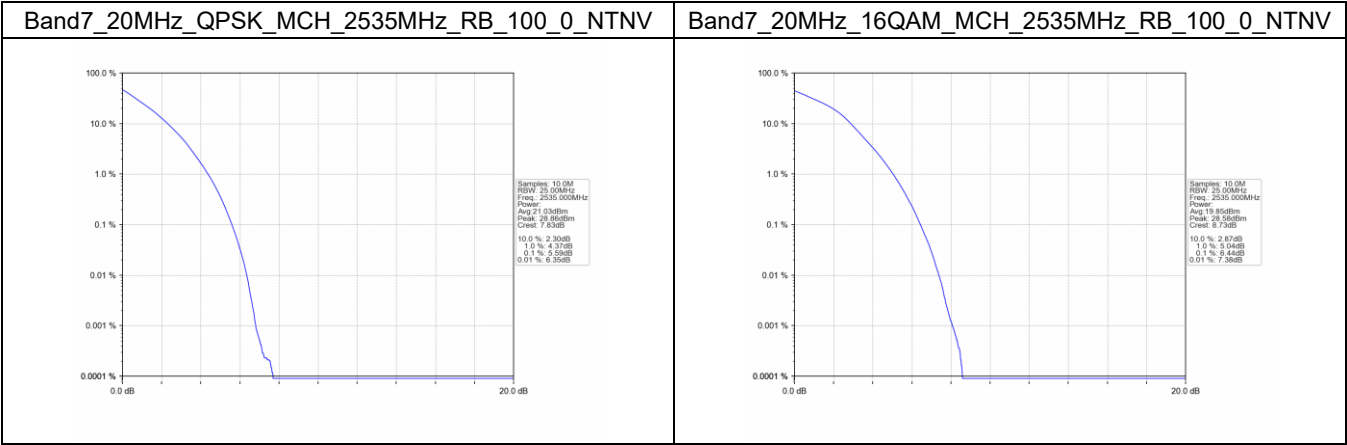
4.1.1 B7_20MHz

Band: 7 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2535	100	0	5.59	<=13	Pass
16QAM	2535	100	0	6.44	<=13	Pass



4.2 Test Graph

4.2.1 B7_20MHz





5. Spurious Emission

5.1 Test Result

5.1.1 B7_5MHz

Band: 7 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2502.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	2535	1	0	Refer To Test Graph		Pass
	2567.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass

5.1.2 B7_10MHz

Band: 7 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2505	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	2535	1	0	Refer To Test Graph		Pass
	2565	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass

5.1.3 B7_15MHz

Band: 7 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2507.5	1	0	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
	2535	1	0	Refer To Test Graph		Pass
	2562.5	1	0	Refer To Test Graph		Pass
			74	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass

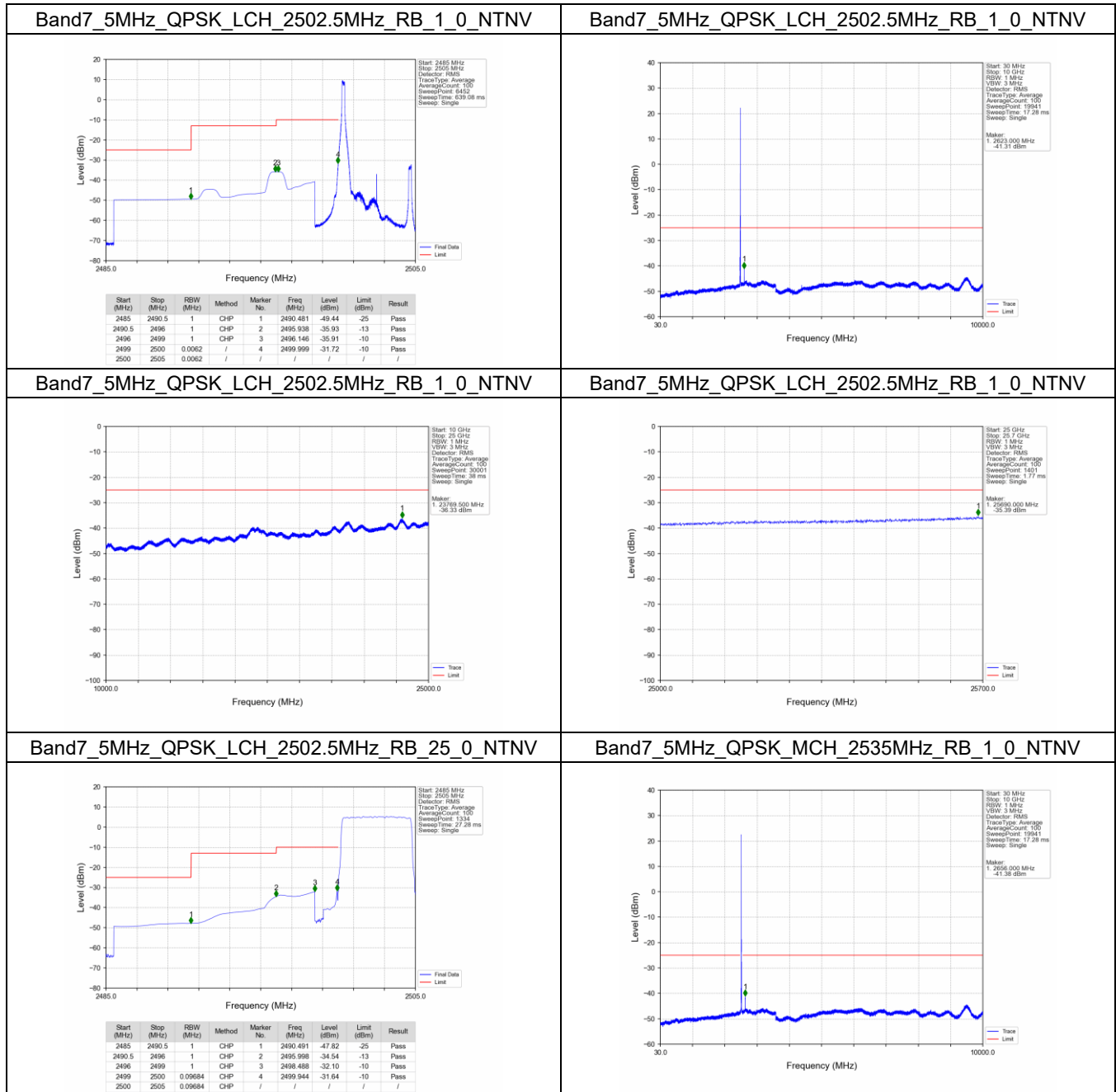
5.1.4 B7_20MHz



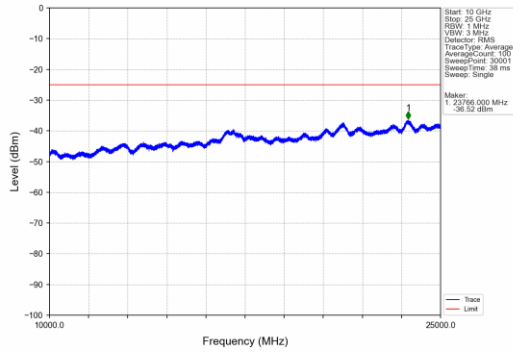
Band: 7 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2510	1	0	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
	2535	1	0	Refer To Test Graph		Pass
	2560	1	0	Refer To Test Graph		Pass
			99	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass

5.2 Test Graph

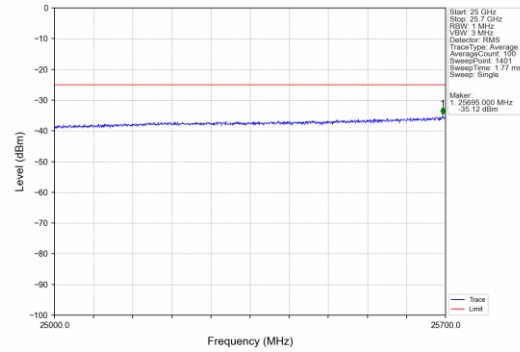
5.2.1 B7_5MHz



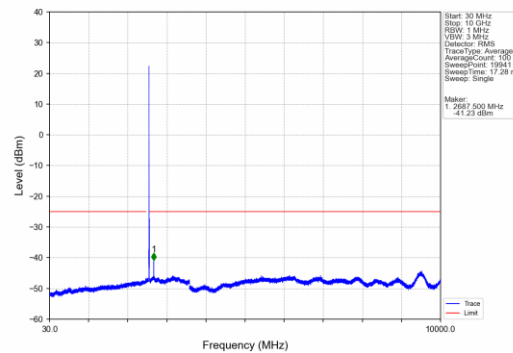
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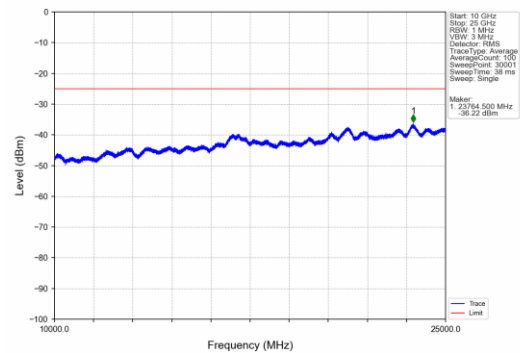
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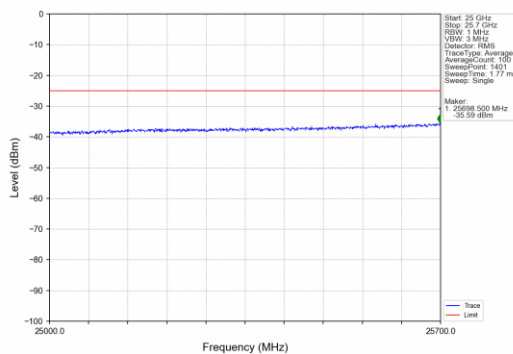
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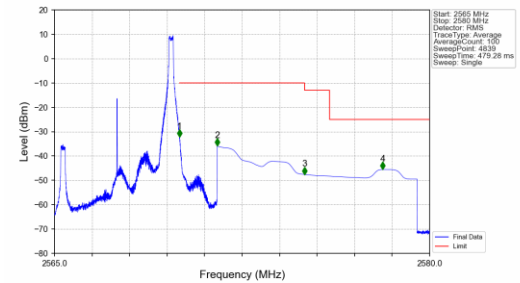
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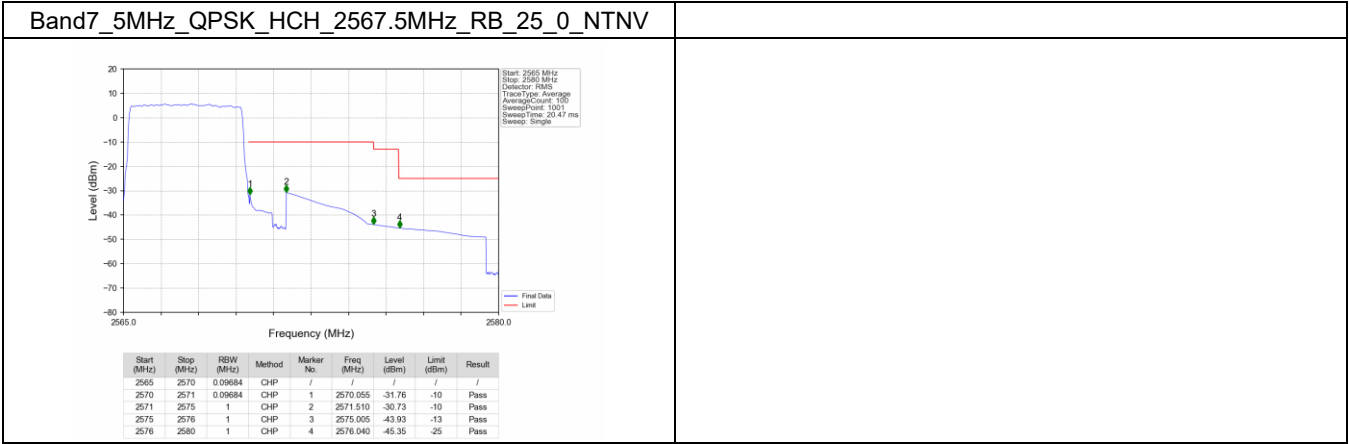
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Band7_5MHz_QPSK_HCH_2567.5MHz_RB_1_24_NTNV

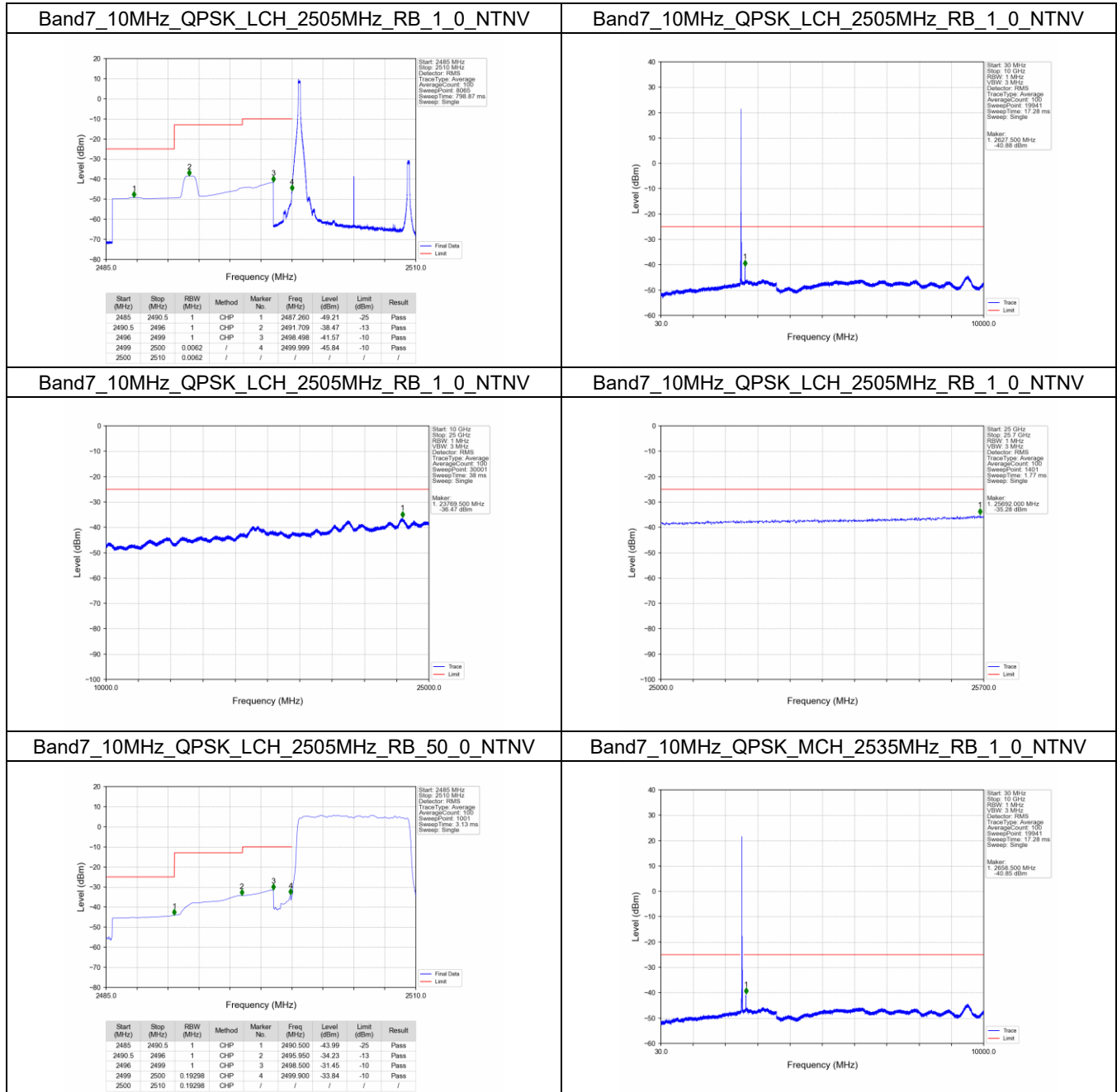


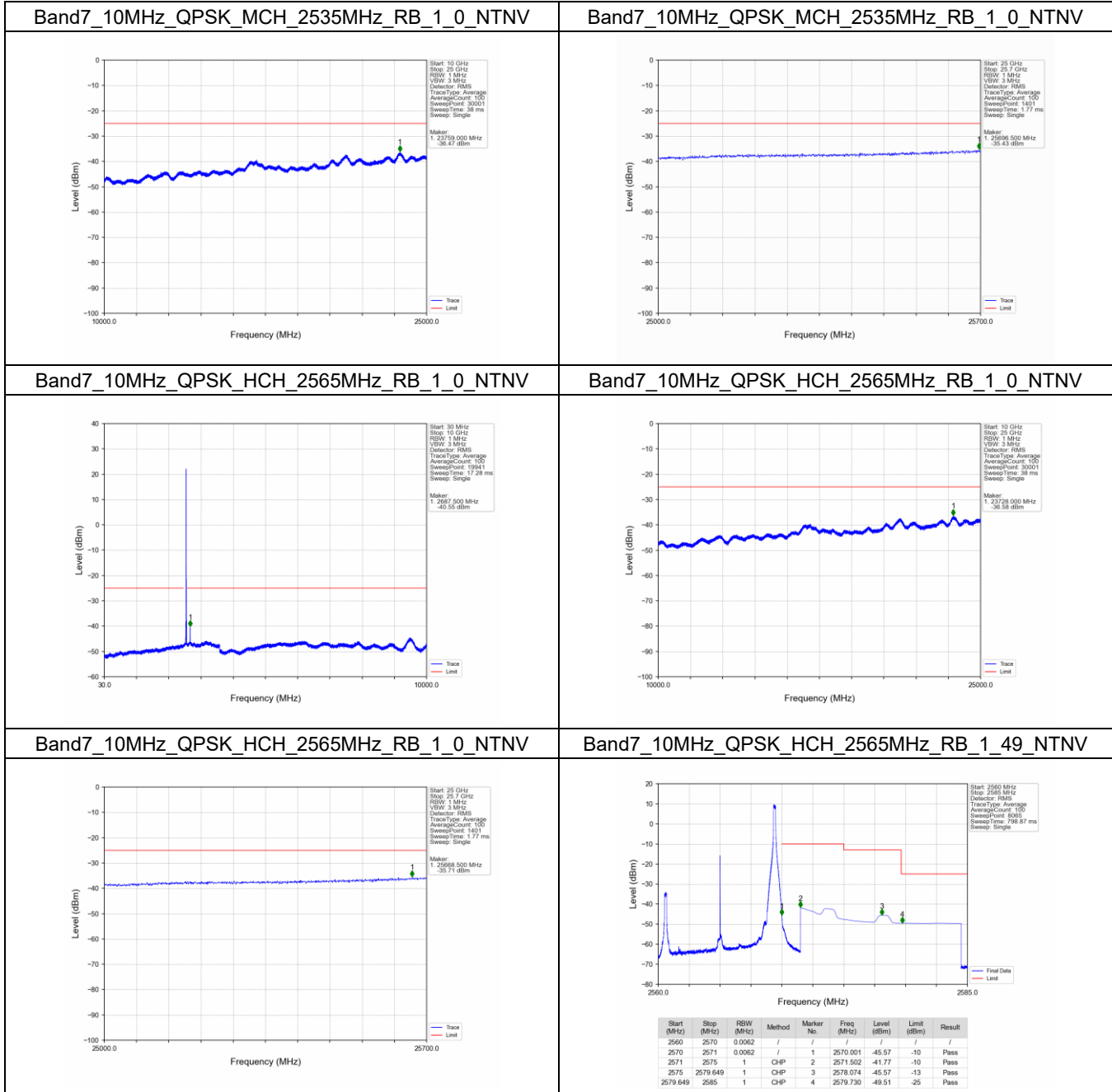
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2565	2570	0.0062	/	/	/	/	/	/
2570	2571	0.0062	/	1	2570.001	-32.25	-10	Pass
2571	2575	1	CHP	2	2571.502	-35.86	-10	Pass
2575	2576	1	CHP	3	2575.002	-47.61	-13	Pass
2576	2580	1	CHP	4	2576.127	-45.56	-25	Pass

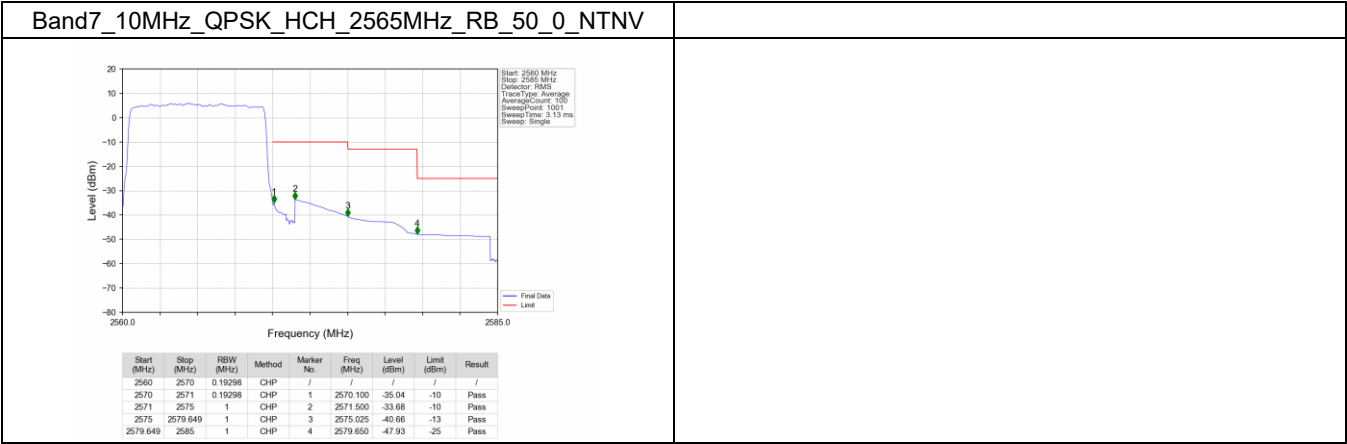




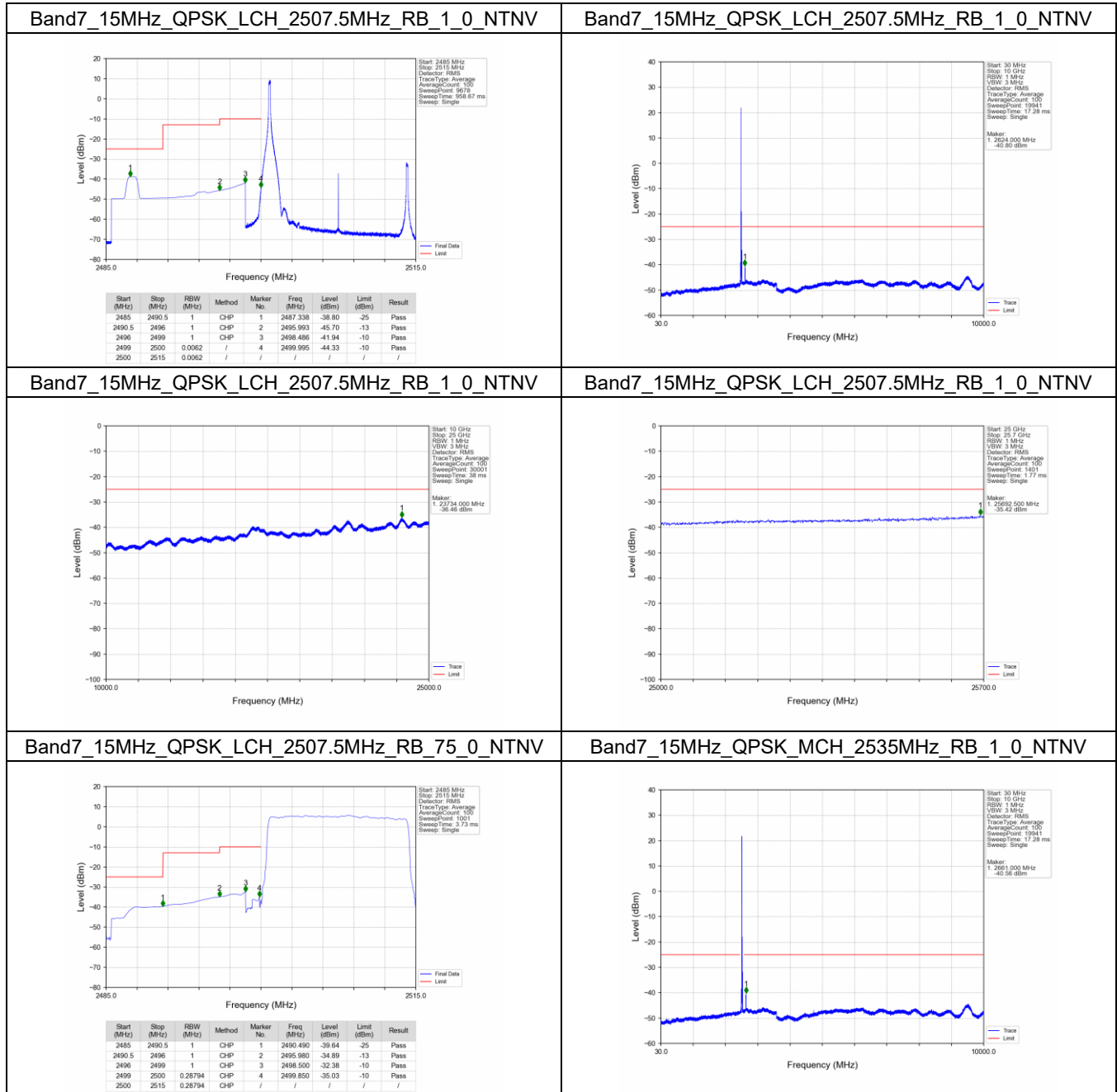
5.2.2 B7_10MHz



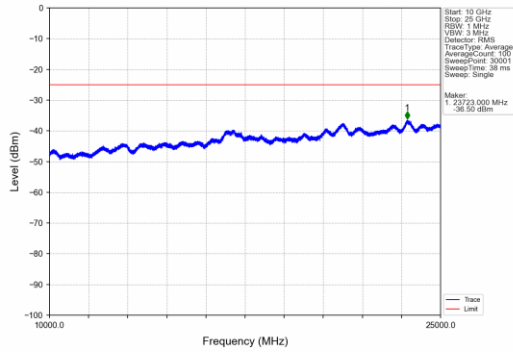




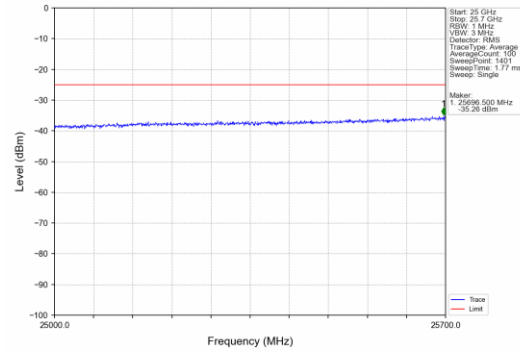
5.2.3 B7_15MHz



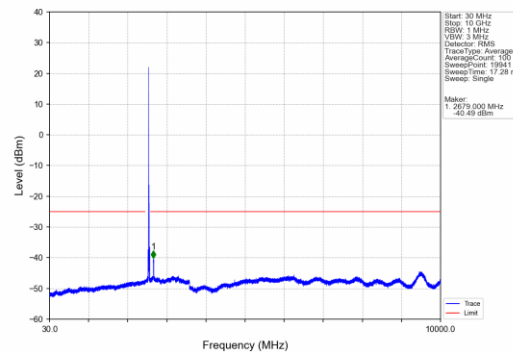
Band7_15MHz_QPSK_MCH_2535MHz_RB_1_0_NTNV



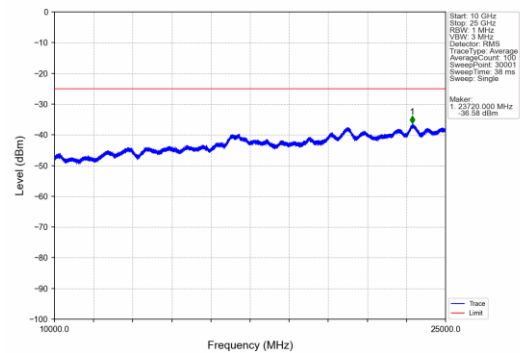
Band7_15MHz_QPSK_MCH_2535MHz_RB_1_0_NTNV



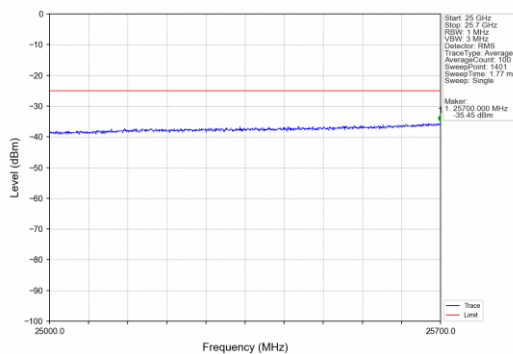
Band7_15MHz_QPSK_HCH_2562.5MHz_RB_1_0_NTNV



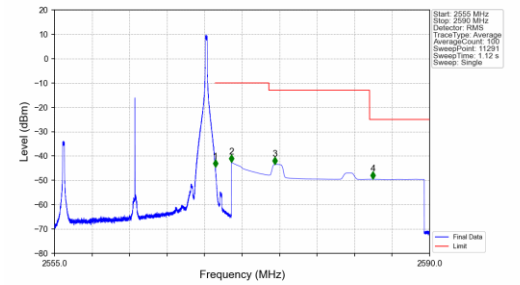
Band7_15MHz_QPSK_HCH_2562.5MHz_RB_1_0_NTNV



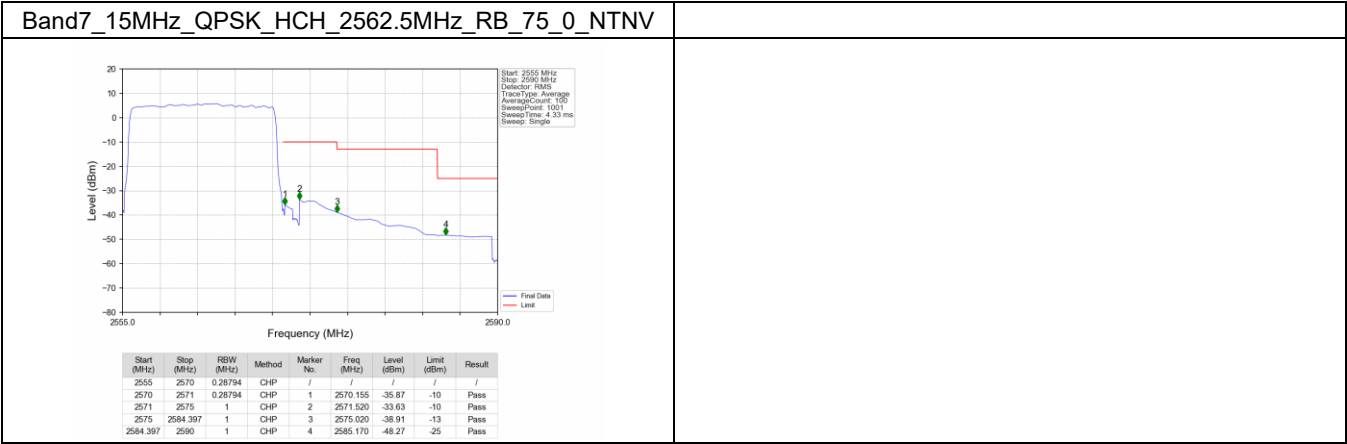
Band7_15MHz_QPSK_HCH_2562.5MHz_RB_1_0_NTNV



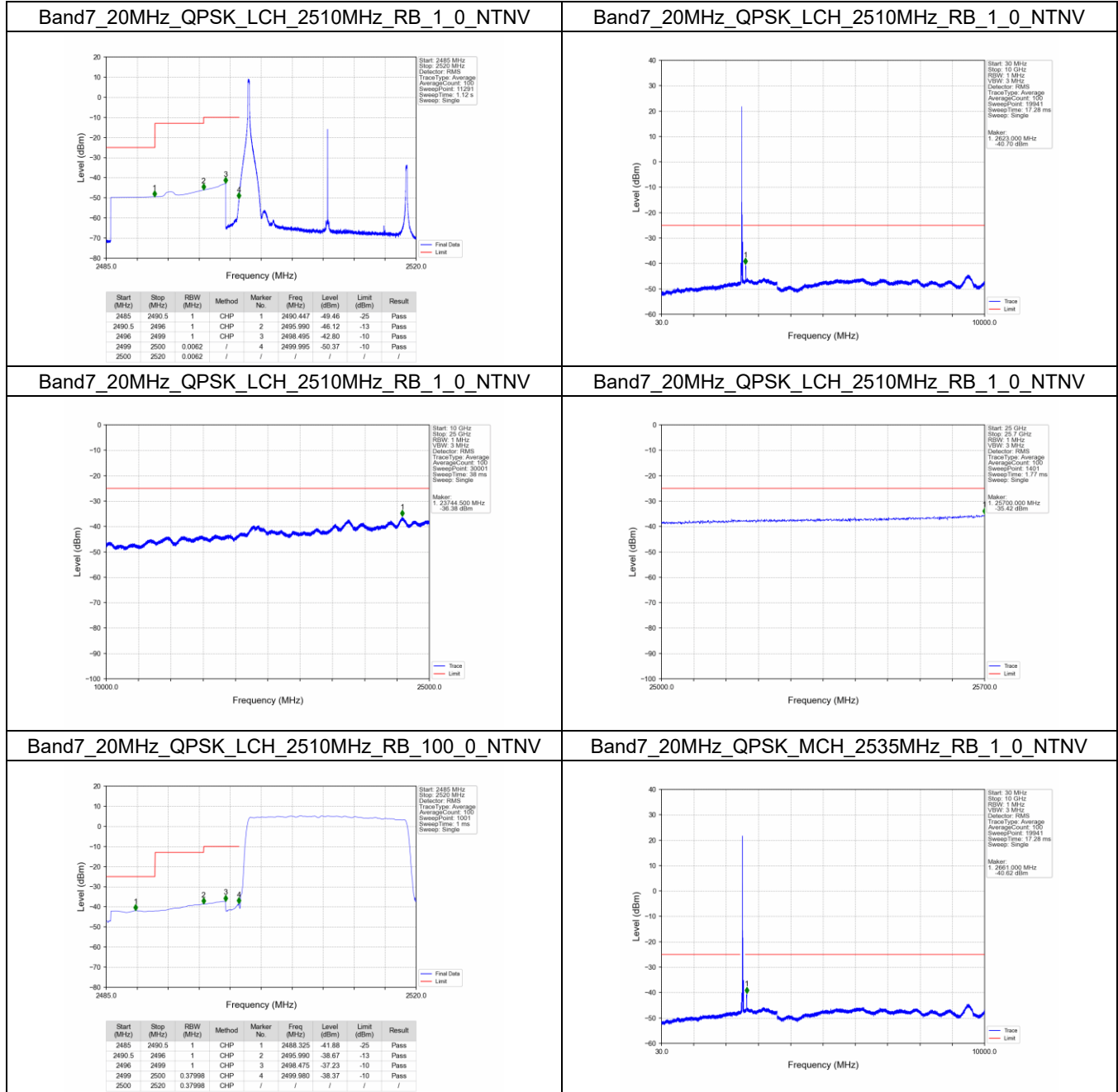
Band7_15MHz_QPSK_HCH_2562.5MHz_RB_1_74_NTNV



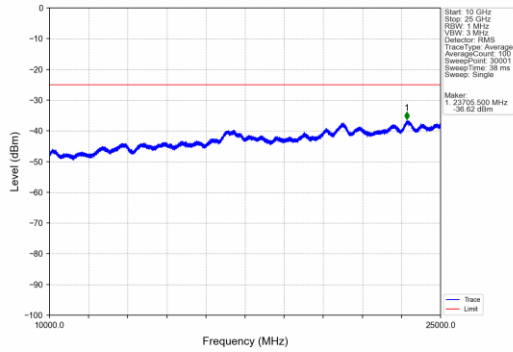
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2555	2570	0.0062	/	/	/	/	/	/
2570	2571	0.0062	/	1	2570.008	-44.58	-10	Pass
2571	2575	1	CHP	2	2571.502	-42.69	-10	Pass
2575	2584.397	1	CHP	3	2575.569	-43.48	-13	Pass
2584.397	2590	1	CHP	4	2584.724	-49.56	-25	Pass



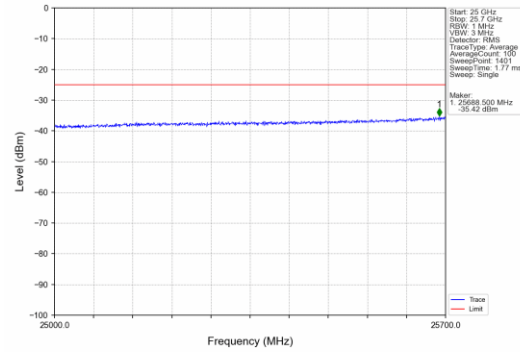
5.2.4 B7_20MHz



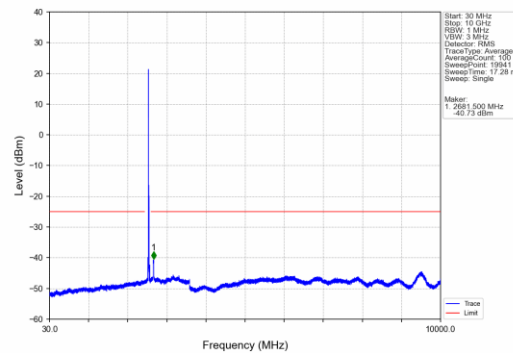
Band7_20MHz_QPSK_MCH_2535MHz_RB_1_0_NTNV



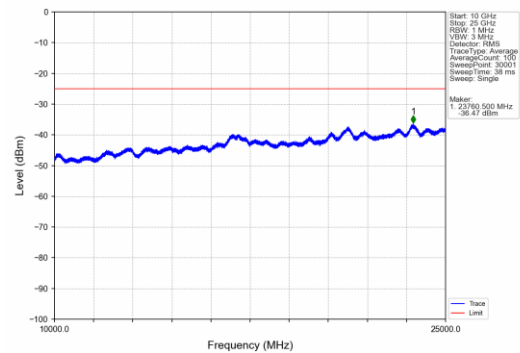
Band7_20MHz_QPSK_MCH_2535MHz_RB_1_0_NTNV



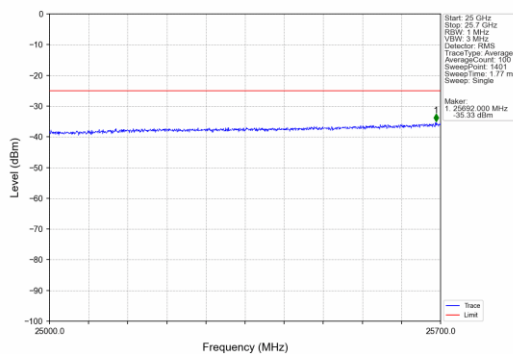
Band7_20MHz_QPSK_HCH_2560MHz_RB_1_0_NTNV



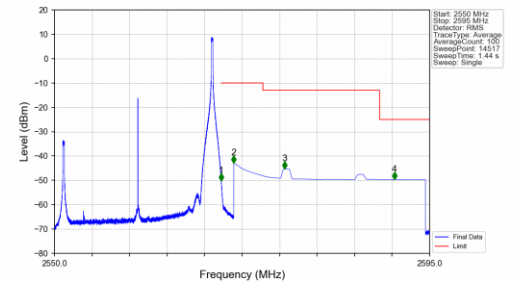
Band7_20MHz_QPSK_HCH_2560MHz_RB_1_0_NTNV



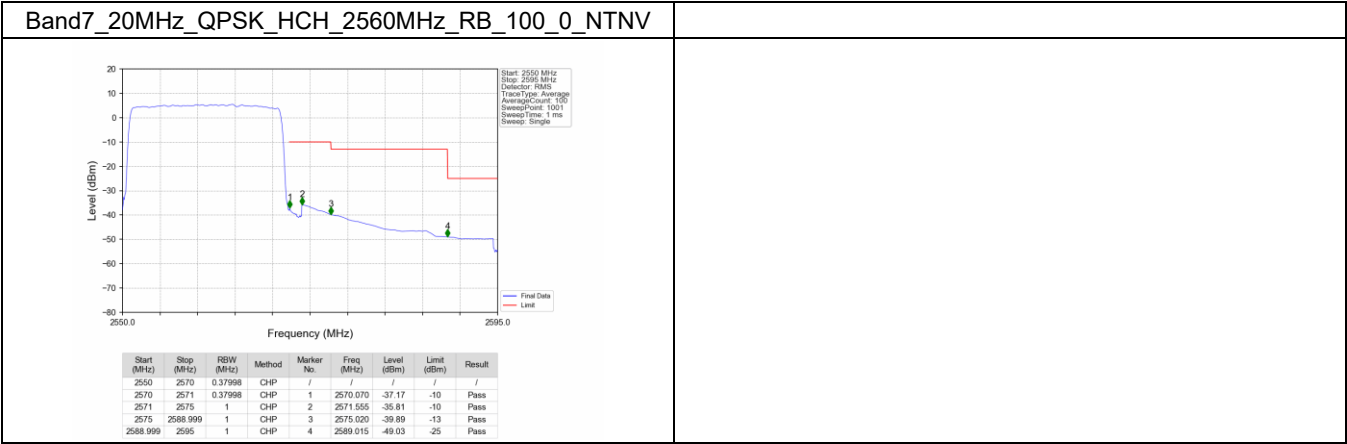
Band7_20MHz_QPSK_HCH_2560MHz_RB_1_0_NTNV



Band7_20MHz_QPSK_HCH_2560MHz_RB_1_99_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2550	2570	0.0062	/	/	/	/	/	/
2570	2571	0.0062	/	1	2570.001	-50.29	-10	Pass
2571	2575	1	CHP	2	2571.502	-42.97	-10	Pass
2575	2588.999	1	CHP	3	2577.596	-45.35	-13	Pass
2588.999	2595	1	CHP	4	2590.793	-49.66	-25	Pass





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6. Frequency Stability (IC)

6.1 Test Result

6.1.1 B7_10MHz

Band: 7 / Bandwidth: 10MHz / NTNV									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	OBW (FL - FH) (MHz)		Limit	Verdict
		Size	Offset			FL	FH		
QPSK	2535	50	0	20	LV	2530.485	2539.494	2530 to 2540	Pass
					NV	2530.501	2539.496	2530 to 2540	Pass
					HV	2530.499	2539.506	2530 to 2540	Pass
				-30	NV	2530.509	2539.499	2530 to 2540	Pass
				-20	NV	2530.507	2539.490	2530 to 2540	Pass
				-10	NV	2530.508	2539.491	2530 to 2540	Pass
				0	NV	2530.488	2539.486	2530 to 2540	Pass
				10	NV	2530.517	2539.493	2530 to 2540	Pass
				30	NV	2530.492	2539.498	2530 to 2540	Pass
				40	NV	2530.502	2539.500	2530 to 2540	Pass
				50	NV	2530.509	2539.500	2530 to 2540	Pass

---End of Attachment---