

**Appendix A.16****1. Effective (Isotropic) Radiated Power Output Data****1.1 Test Result****1.1.1 B30_5MHz_EIRP**

Band: 30 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2307.5	1	0	22.74	0.50	23.24	/	Pass
			13	22.31	0.50	22.81	/	Pass
			24	22.54	0.50	23.04	/	Pass
		12	0	21.71	0.50	22.21	/	Pass
			6	21.69	0.50	22.19	/	Pass
			13	21.61	0.50	22.11	/	Pass
		25	0	21.63	0.50	22.13	/	Pass
	2310	1	0	22.44	0.50	22.94	/	Pass
			13	22.45	0.50	22.95	/	Pass
			24	22.38	0.50	22.88	/	Pass
		12	0	21.61	0.50	22.11	/	Pass
			6	21.63	0.50	22.13	/	Pass
			13	21.60	0.50	22.10	/	Pass
		25	0	21.59	0.50	22.09	/	Pass
	2312.5	1	0	22.57	0.50	23.07	/	Pass
			13	22.57	0.50	23.07	/	Pass
			24	22.64	0.50	23.14	/	Pass
		12	0	21.61	0.50	22.11	/	Pass
			6	21.64	0.50	22.14	/	Pass
			13	21.52	0.50	22.02	/	Pass
		25	0	21.54	0.50	22.04	/	Pass
16QAM	2307.5	1	0	22.32	0.50	22.82	/	Pass
			13	22.36	0.50	22.86	/	Pass
			24	21.56	0.50	22.06	/	Pass
		12	0	20.53	0.50	21.03	/	Pass
			6	20.59	0.50	21.09	/	Pass
			13	20.45	0.50	20.95	/	Pass
		25	0	20.83	0.50	21.33	/	Pass
	2310	1	0	21.22	0.50	21.72	/	Pass
			13	21.79	0.50	22.29	/	Pass
			24	21.10	0.50	21.60	/	Pass
		12	0	20.55	0.50	21.05	/	Pass
			6	20.57	0.50	21.07	/	Pass

			13	20.50	0.50	21.00	/	Pass
		25	0	20.52	0.50	21.02	/	Pass
	2312.5	1	0	21.77	0.50	22.27	/	Pass
			13	21.73	0.50	22.23	/	Pass
			24	21.48	0.50	21.98	/	Pass
			0	20.69	0.50	21.19	/	Pass
		12	6	20.75	0.50	21.25	/	Pass
			13	20.64	0.50	21.14	/	Pass
			25	20.58	0.50	21.08	/	Pass
		25	0	20.58	0.50	21.08	/	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.2 B30_5MHz_EIRP/5MHz

Band: 30 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm/5MHz)	Gain (dBi)	EIRP/5MHz (dBm/5MHz)		Verdict
		Size	Offset			Result	Limit	
QPSK	2307.5	1	0	22.43	0.50	22.93	<=23.98	Pass
			13	22.18	0.50	22.68	<=23.98	Pass
			24	22.14	0.50	22.64	<=23.98	Pass
		12	0	21.70	0.50	22.20	<=23.98	Pass
			6	21.62	0.50	22.12	<=23.98	Pass
			13	21.43	0.50	21.93	<=23.98	Pass
		25	0	21.55	0.50	22.05	<=23.98	Pass
	2310	1	0	22.31	0.50	22.81	<=23.98	Pass
			13	22.32	0.50	22.82	<=23.98	Pass
			24	22.36	0.50	22.86	<=23.98	Pass
		12	0	21.53	0.50	22.03	<=23.98	Pass
			6	21.42	0.50	21.92	<=23.98	Pass
			13	21.41	0.50	21.91	<=23.98	Pass
		25	0	21.46	0.50	21.96	<=23.98	Pass
	2312.5	1	0	22.32	0.50	22.82	<=23.98	Pass
			13	22.46	0.50	22.96	<=23.98	Pass
			24	22.47	0.50	22.97	<=23.98	Pass
		12	0	21.50	0.50	22.00	<=23.98	Pass
			6	21.40	0.50	21.90	<=23.98	Pass
			13	21.34	0.50	21.84	<=23.98	Pass
		25	0	21.33	0.50	21.83	<=23.98	Pass
16QAM	2307.5	1	0	22.34	0.50	22.84	<=23.98	Pass
			13	22.16	0.50	22.66	<=23.98	Pass
			24	21.81	0.50	22.31	<=23.98	Pass
		12	0	20.54	0.50	21.04	<=23.98	Pass
			6	20.44	0.50	20.94	<=23.98	Pass
			13	20.32	0.50	20.82	<=23.98	Pass



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	2310	25	0	20.43	0.50	20.93	<=23.98	Pass
		1	0	21.23	0.50	21.73	<=23.98	Pass
			13	21.94	0.50	22.44	<=23.98	Pass
			24	21.04	0.50	21.54	<=23.98	Pass
		12	0	20.49	0.50	20.99	<=23.98	Pass
			6	20.47	0.50	20.97	<=23.98	Pass
			13	20.48	0.50	20.98	<=23.98	Pass
		25	0	20.36	0.50	20.86	<=23.98	Pass
	2312.5	1	0	21.66	0.50	22.16	<=23.98	Pass
			13	21.42	0.50	21.92	<=23.98	Pass
			24	21.37	0.50	21.87	<=23.98	Pass
		12	0	20.57	0.50	21.07	<=23.98	Pass
			6	20.54	0.50	21.04	<=23.98	Pass
			13	20.47	0.50	20.97	<=23.98	Pass
		25	0	20.53	0.50	21.03	<=23.98	Pass

Note1: EIRP/5MHz=Conducted Power+Antenna Gain

1.1.3 B30_10MHz_EIRP

Band: 30 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2310	1	0	22.90	0.50	23.40	/	Pass
			25	22.92	0.50	23.42	/	Pass
			49	22.63	0.50	23.13	/	Pass
		25	0	21.86	0.50	22.36	/	Pass
			13	21.85	0.50	22.35	/	Pass
			25	21.77	0.50	22.27	/	Pass
		50	0	21.87	0.50	22.37	/	Pass
16QAM	2310	1	0	22.53	0.50	23.03	/	Pass
			25	22.83	0.50	23.33	/	Pass
			49	21.93	0.50	22.43	/	Pass
		25	0	20.94	0.50	21.44	/	Pass
			13	20.92	0.50	21.42	/	Pass
			25	20.85	0.50	21.35	/	Pass
		50	0	20.86	0.50	21.36	/	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.4 B30_10MHz_EIRP/5MHz

Band: 30 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency	RB Allocation	Conducted Power	Gain	EIRP/5MHz (dBm/5MHz)	Verdict



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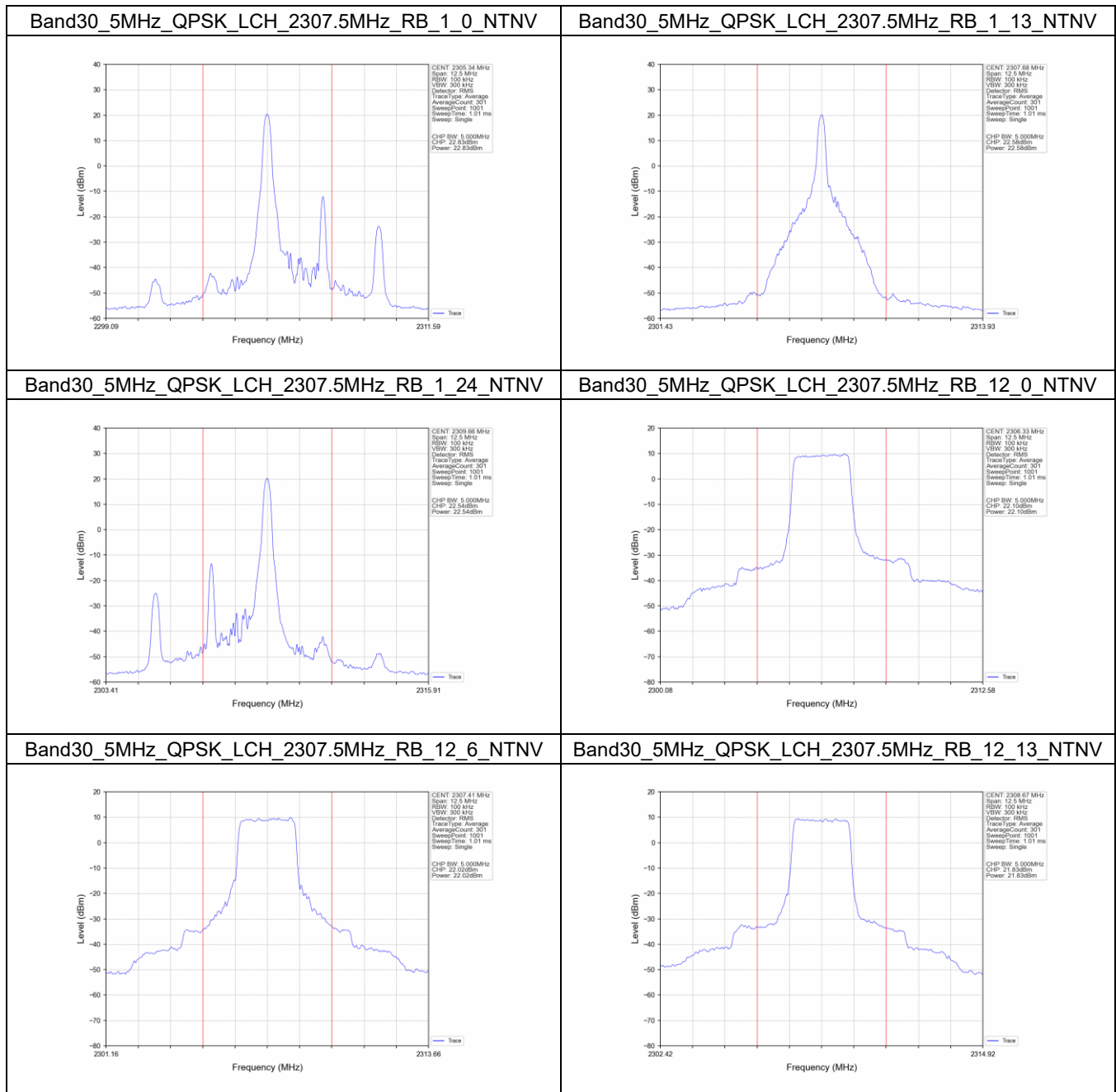
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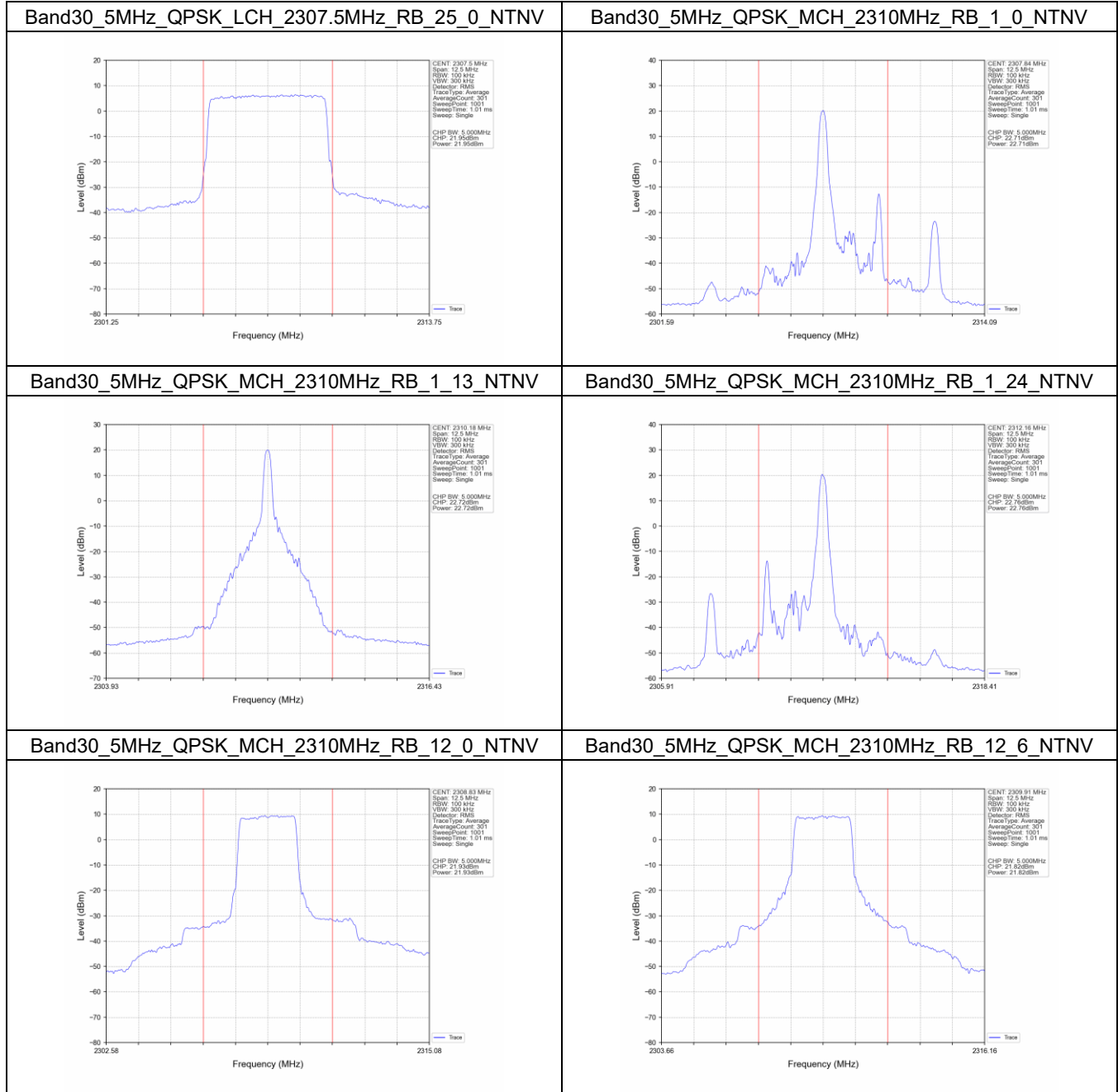
	(MHz)	Size	Offset	(dBm/5MHz)	(dBi)	Result	Limit	
QPSK	2310	1	0	22.41	0.50	22.91	<=23.98	Pass
			25	22.09	0.50	22.59	<=23.98	Pass
			49	22.22	0.50	22.72	<=23.98	Pass
		25	0	21.35	0.50	21.85	<=23.98	Pass
			13	21.21	0.50	21.71	<=23.98	Pass
			25	21.15	0.50	21.65	<=23.98	Pass
		50	0	18.92	0.50	19.42	<=23.98	Pass
16QAM	2310	1	0	21.76	0.50	22.26	<=23.98	Pass
			25	22.06	0.50	22.56	<=23.98	Pass
			49	21.47	0.50	21.97	<=23.98	Pass
		25	0	20.17	0.50	20.67	<=23.98	Pass
			13	20.32	0.50	20.82	<=23.98	Pass
			25	20.25	0.50	20.75	<=23.98	Pass
		50	0	17.94	0.50	18.44	<=23.98	Pass
Note1: EIRP/5MHz=Conducted Power+Antenna Gain								

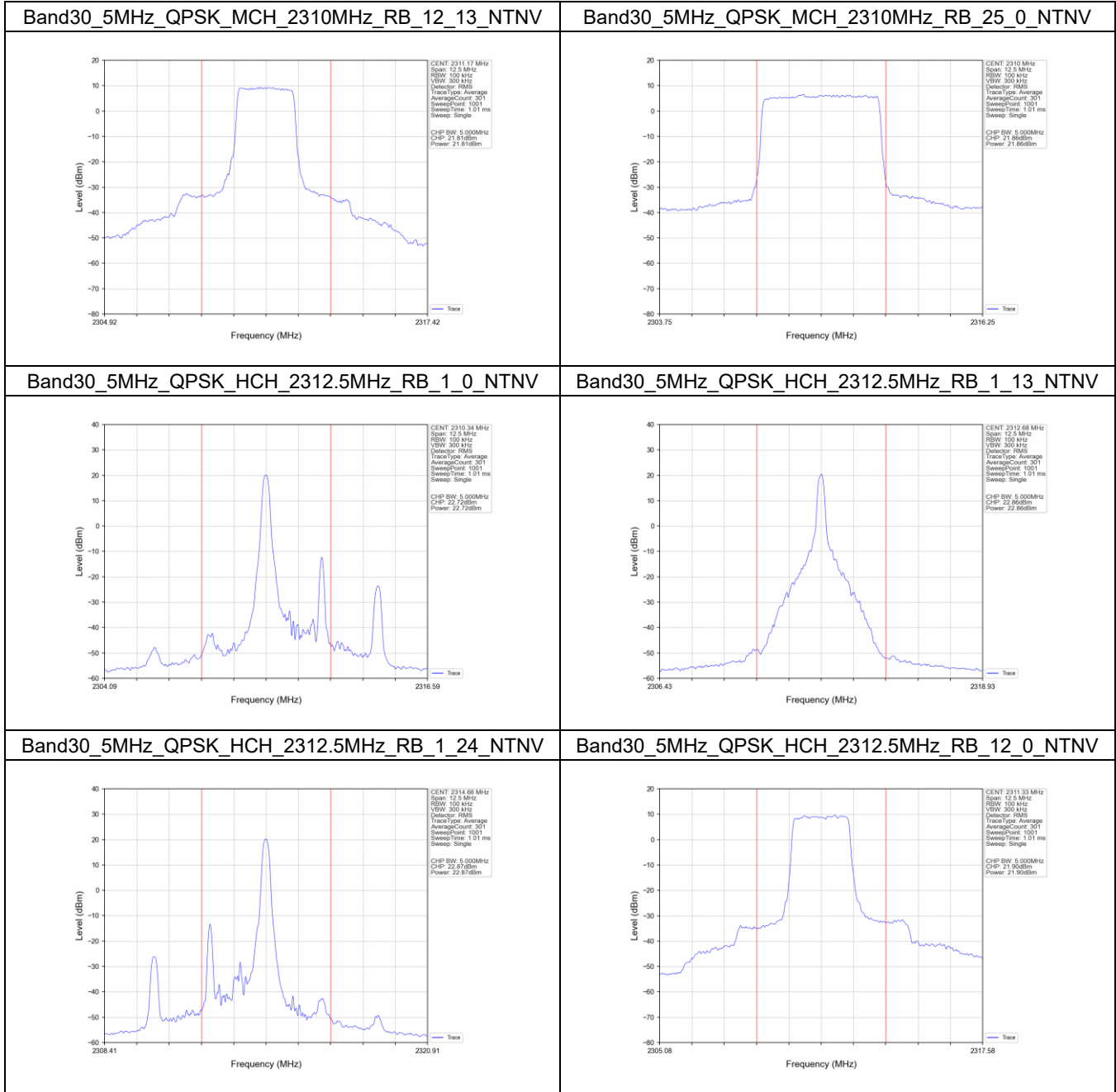


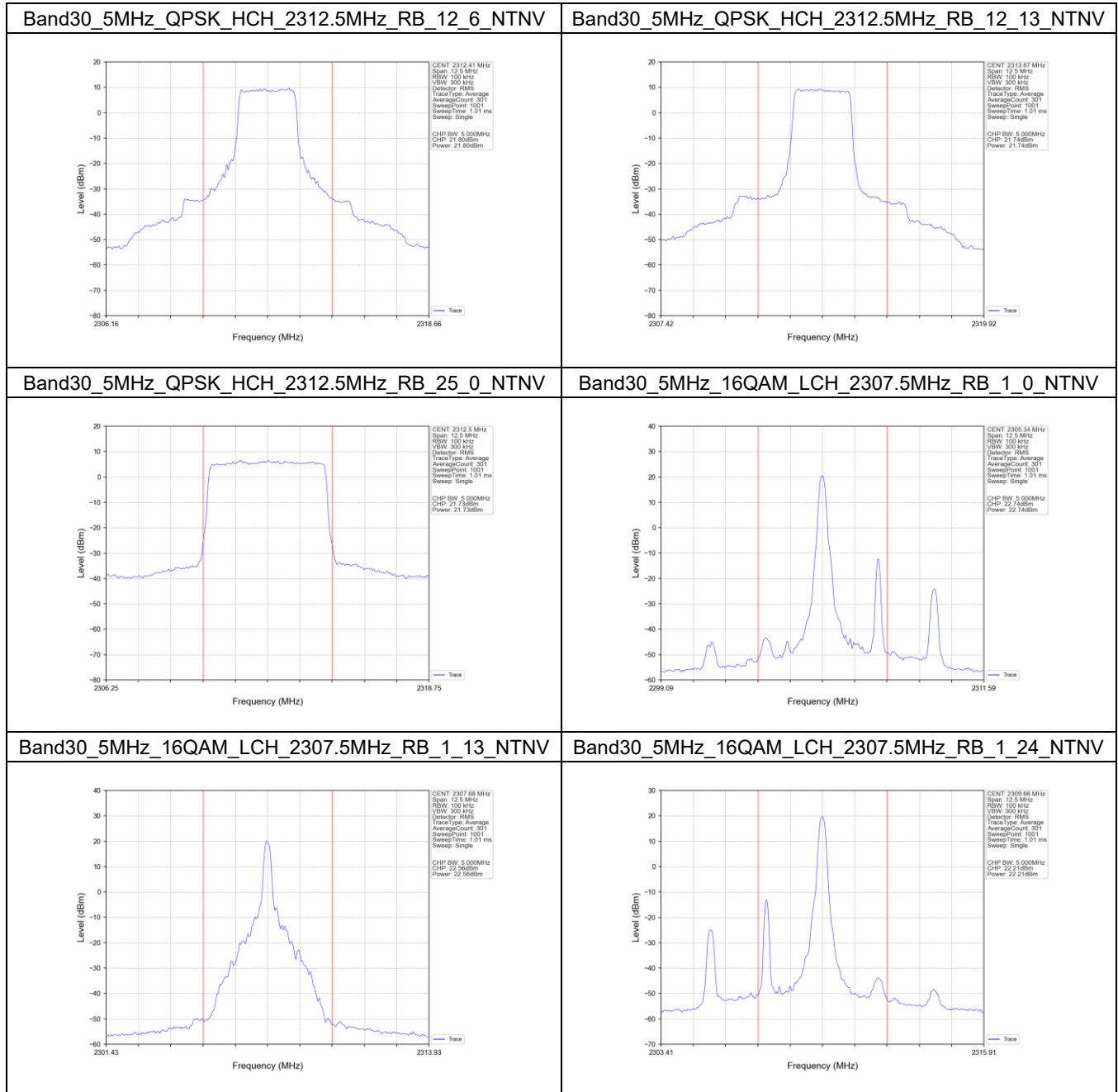
1.2 Test Graph

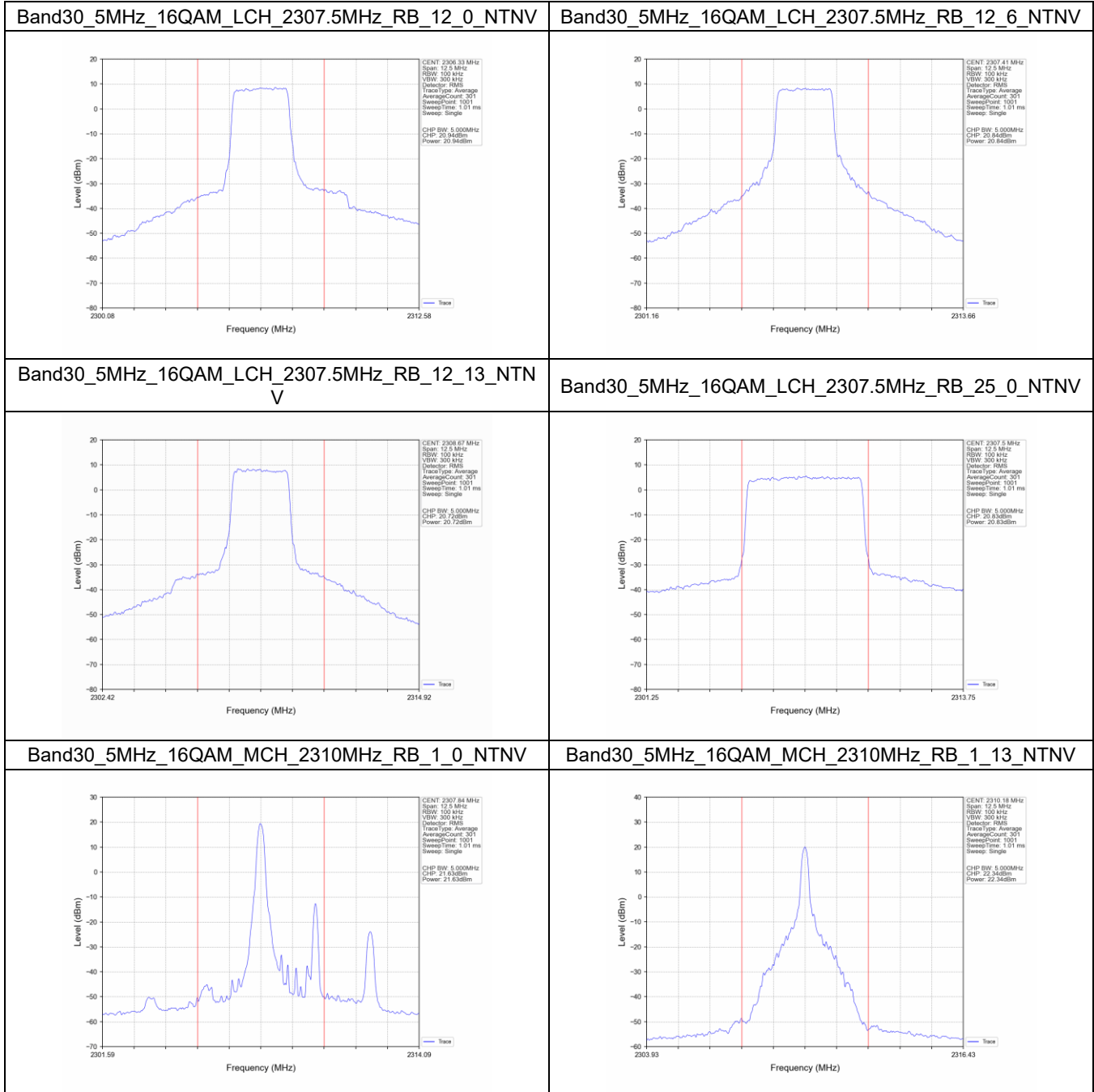
1.2.1 B30_5MHz_EIRP/5MHz

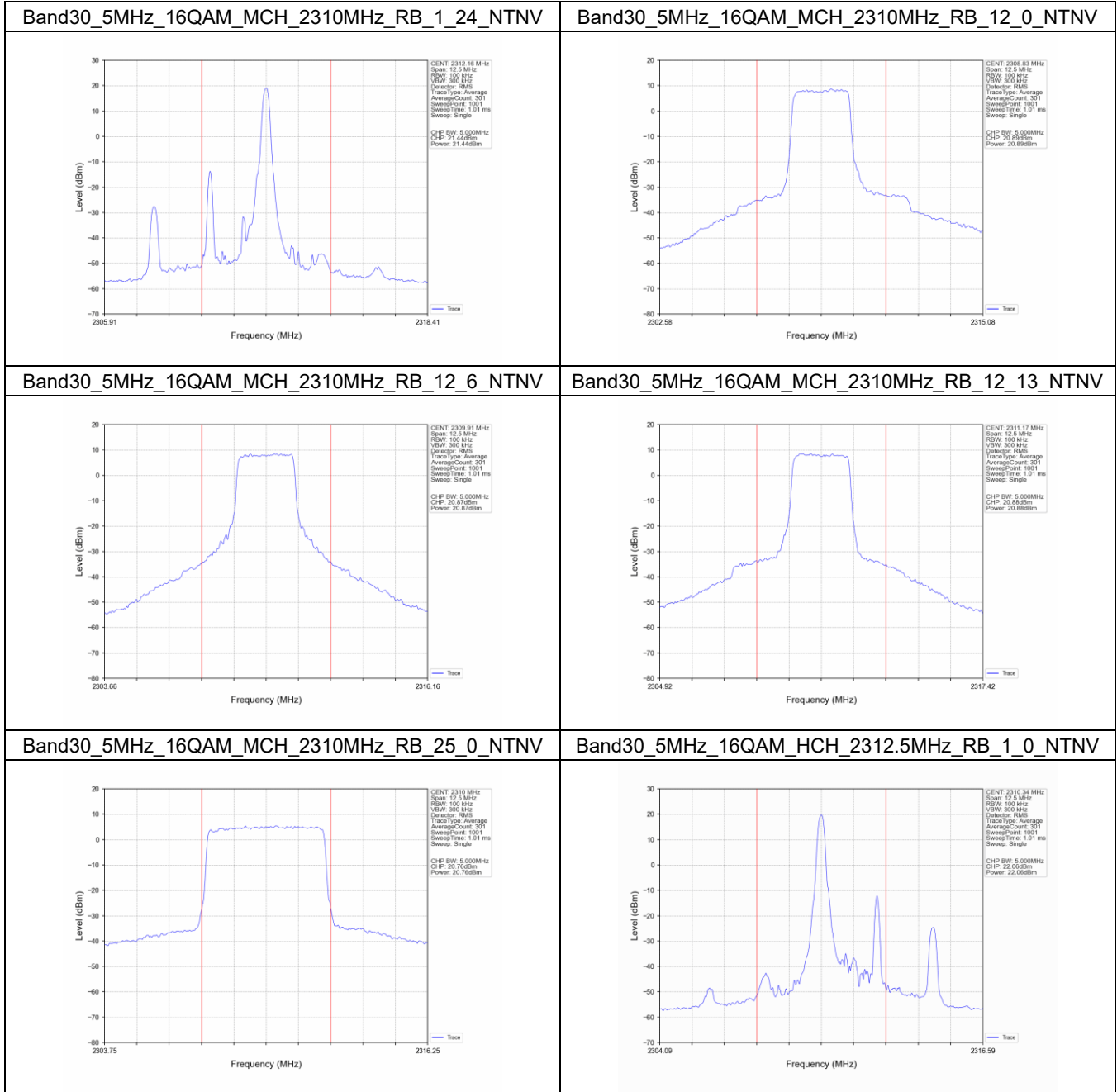


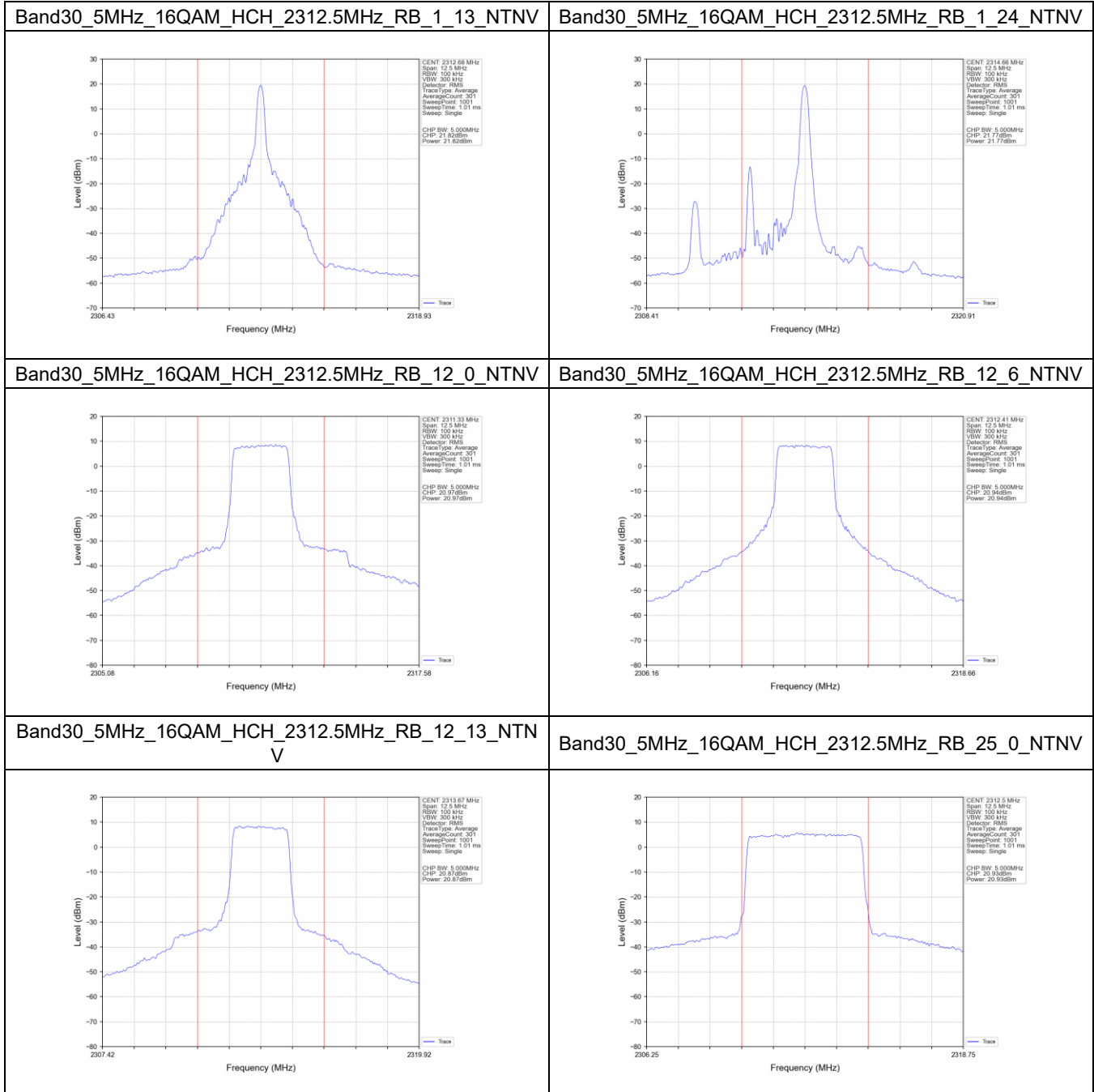




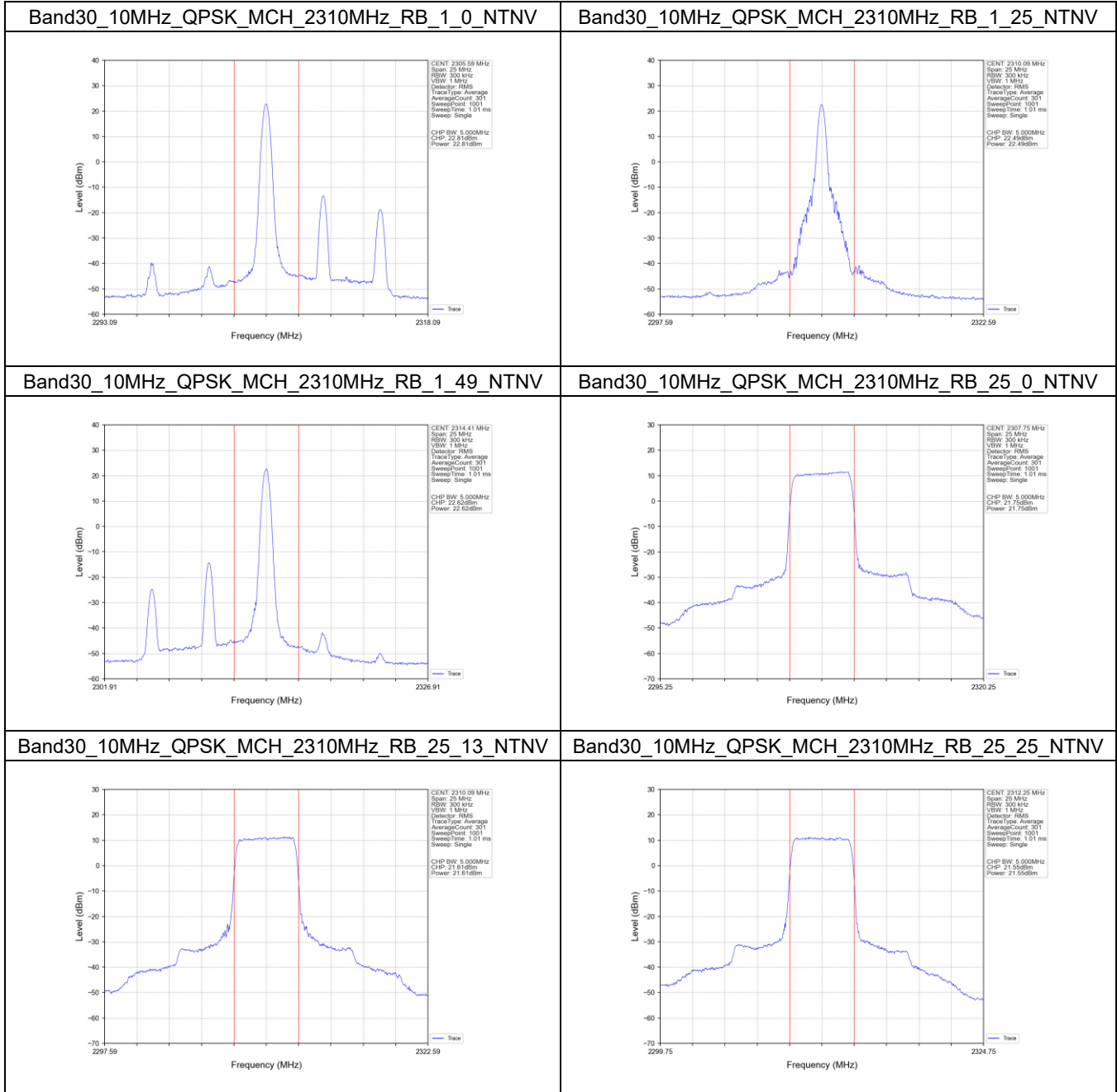


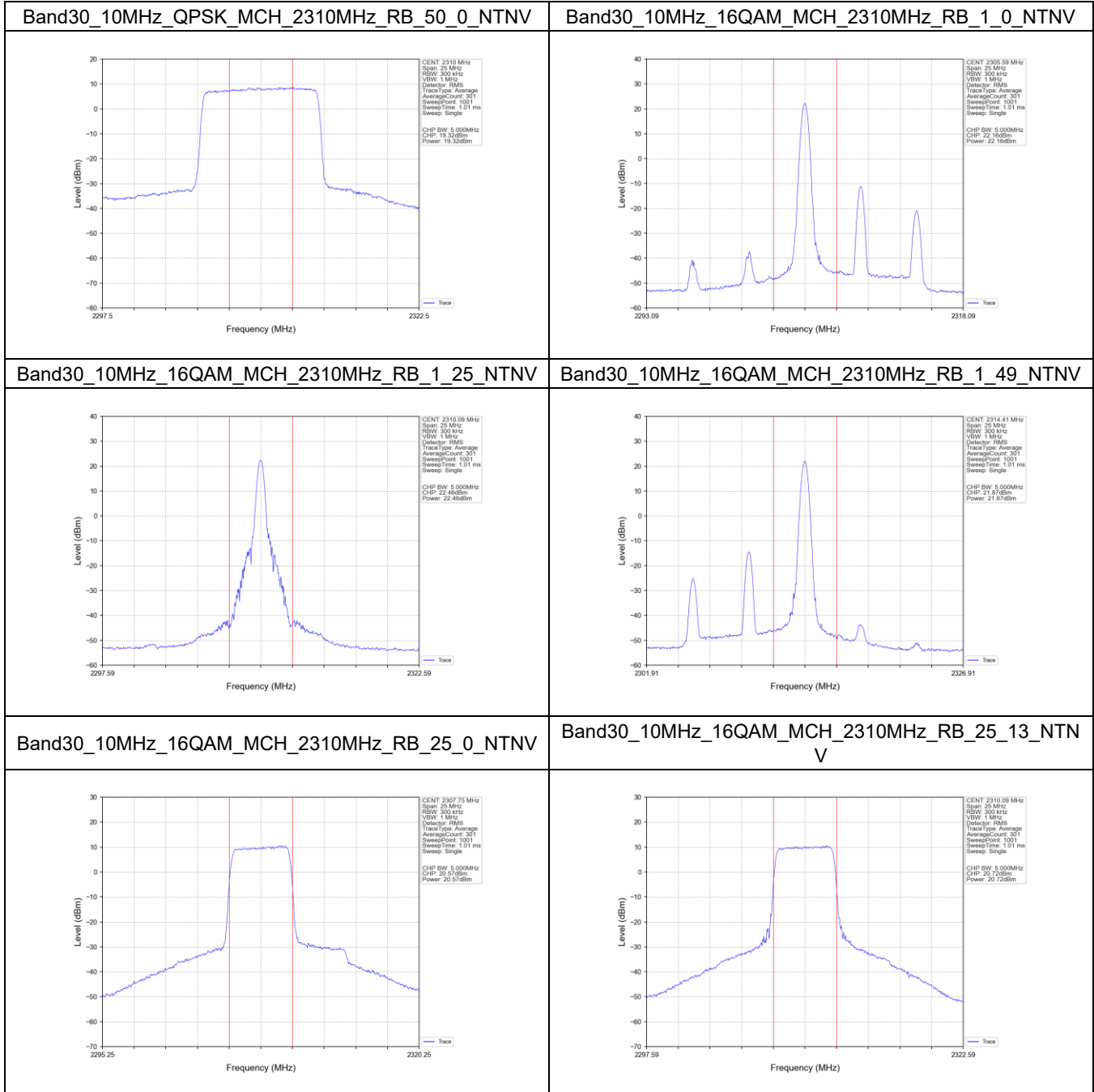


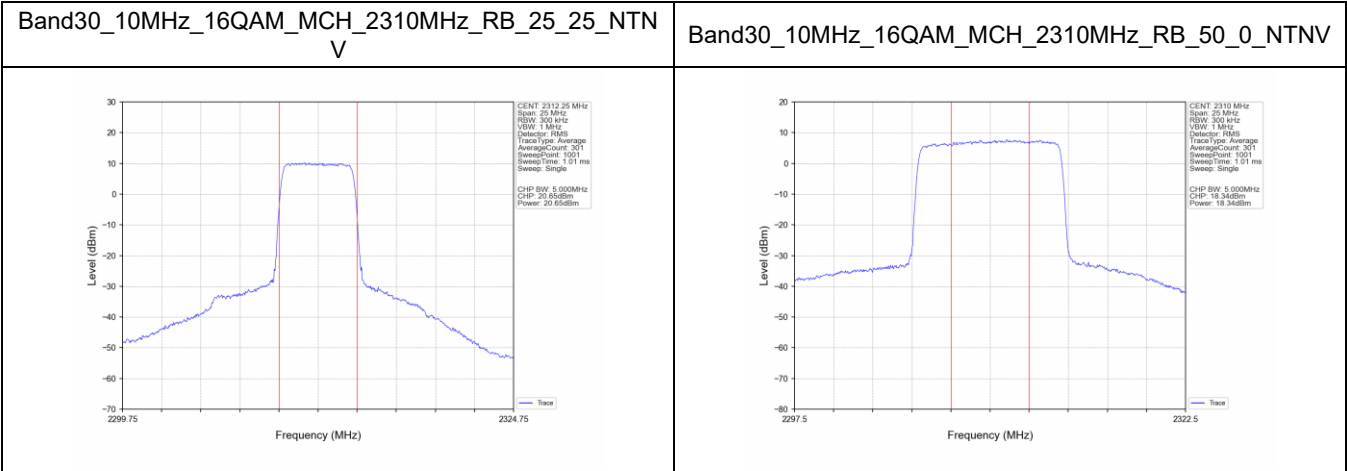




1.2.2 B30_10MHz_EIRP/5MHz









2. Frequency Stability

2.1 Test Result

2.1.1 B30_10MHz

Band: 30 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2310	50	0	20	LV	-5.279	-0.0023	-2.5 to 2.5	Pass
					NV	-4.377	-0.0019	-2.5 to 2.5	Pass
					HV	-5.221	-0.0023	-2.5 to 2.5	Pass
				-30	NV	-3.362	-0.0015	-2.5 to 2.5	Pass
				-20	NV	-4.148	-0.0018	-2.5 to 2.5	Pass
				-10	NV	-3.963	-0.0017	-2.5 to 2.5	Pass
				0	NV	-3.605	-0.0016	-2.5 to 2.5	Pass
				10	NV	-3.533	-0.0015	-2.5 to 2.5	Pass
				30	NV	-2.618	-0.0011	-2.5 to 2.5	Pass
				40	NV	-3.161	-0.0014	-2.5 to 2.5	Pass
				50	NV	-3.676	-0.0016	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band30_OBW

Band: 30 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2310	25	0	4.492	/	Pass
	16QAM	2310	25	0	4.477	/	Pass
10	QPSK	2310	50	0	8.960	/	Pass
	16QAM	2310	50	0	8.946	/	Pass

3.1.2 Band30_XDB

Band: 30 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2310	25	0	4.953	/	Pass
	16QAM	2310	25	0	4.831	/	Pass

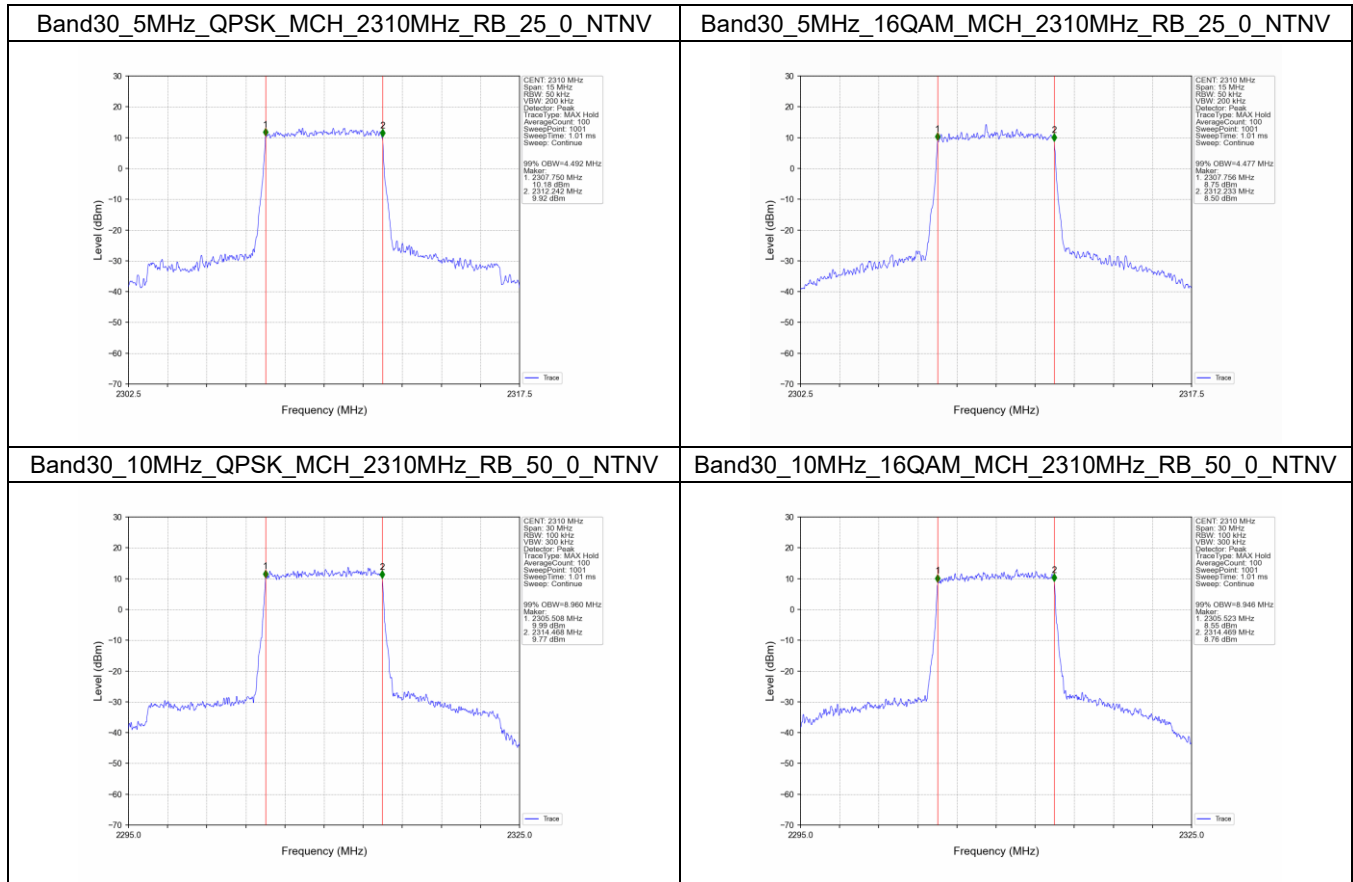


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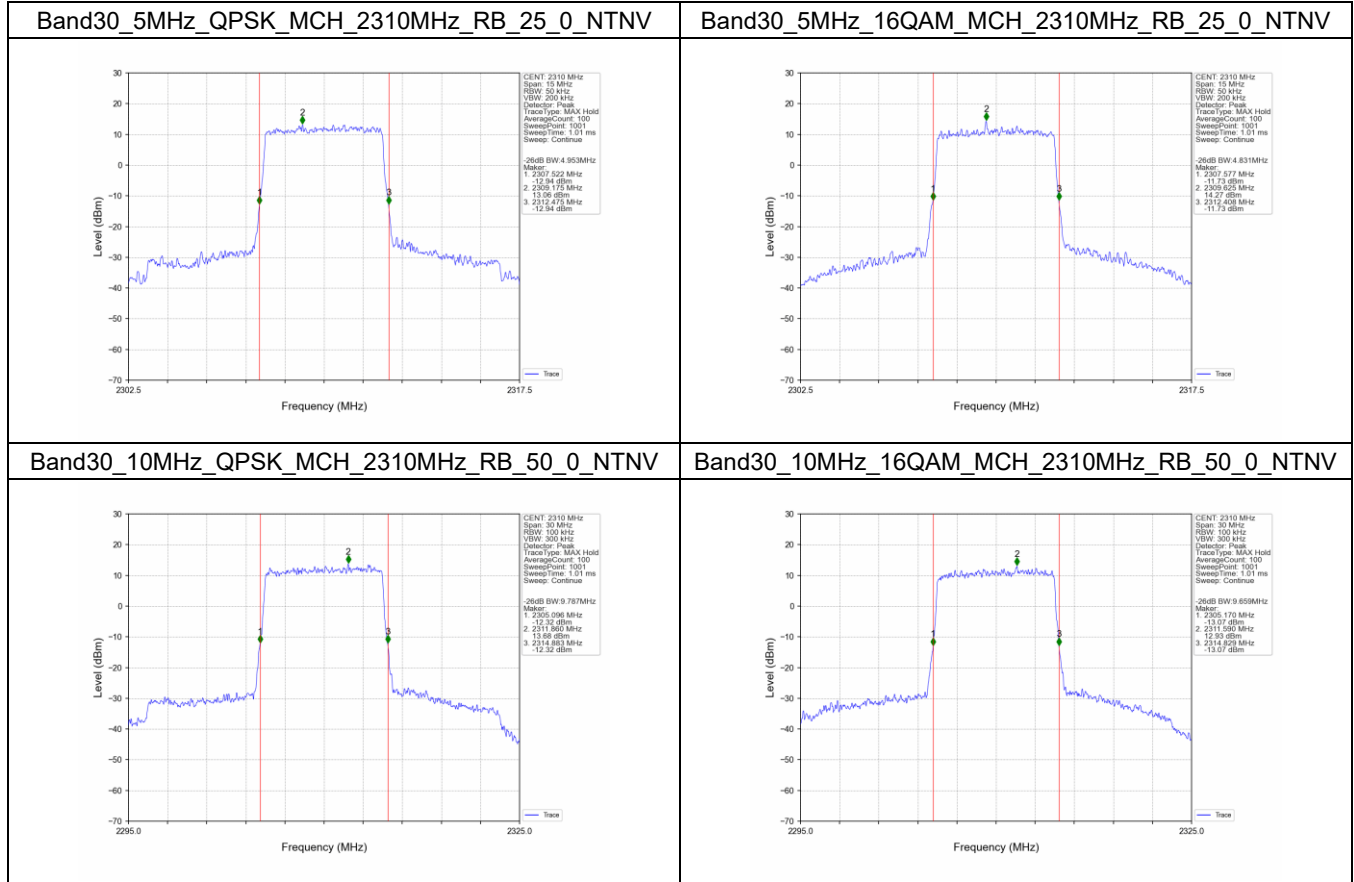
10	QPSK	2310	50	0	9.787	/	Pass
	16QAM	2310	50	0	9.659	/	Pass

3.2 Test Graph

3.2.1 Band30_OBW



3.2.2 Band30_XDB





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4. Peak-Average Ratio

4.1 Test Result

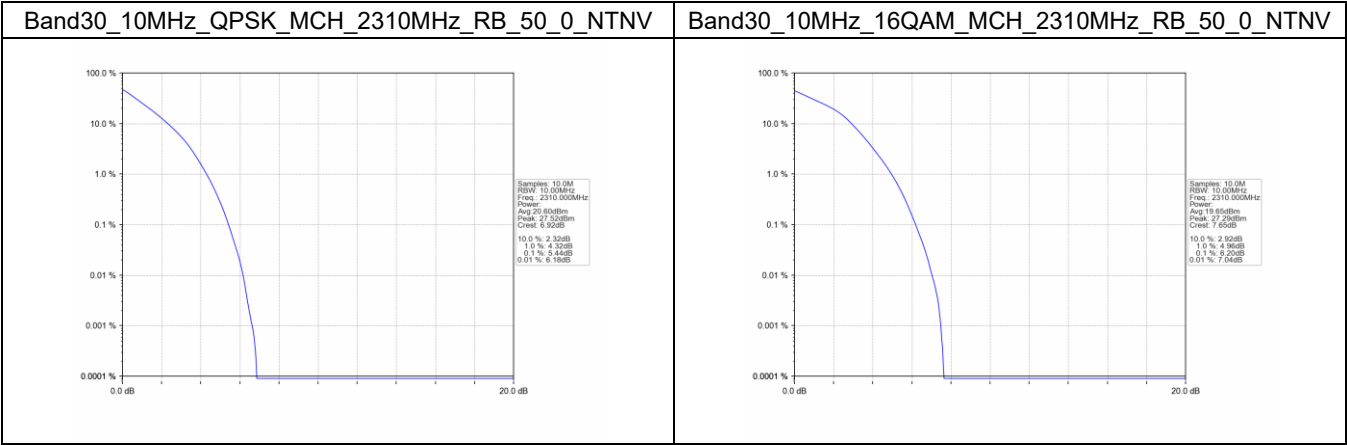
4.1.1 B30_10MHz

Band: 30 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2310	50	0	5.44	<=13	Pass
16QAM	2310	50	0	6.20	<=13	Pass



4.2 Test Graph

4.2.1 B30_10MHz





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5. Spurious Emission

5.1 Test Result

5.1.1 B30_5MHz

Band: 30 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2307.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	2310	1	0	Refer To Test Graph		Pass
	2312.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass

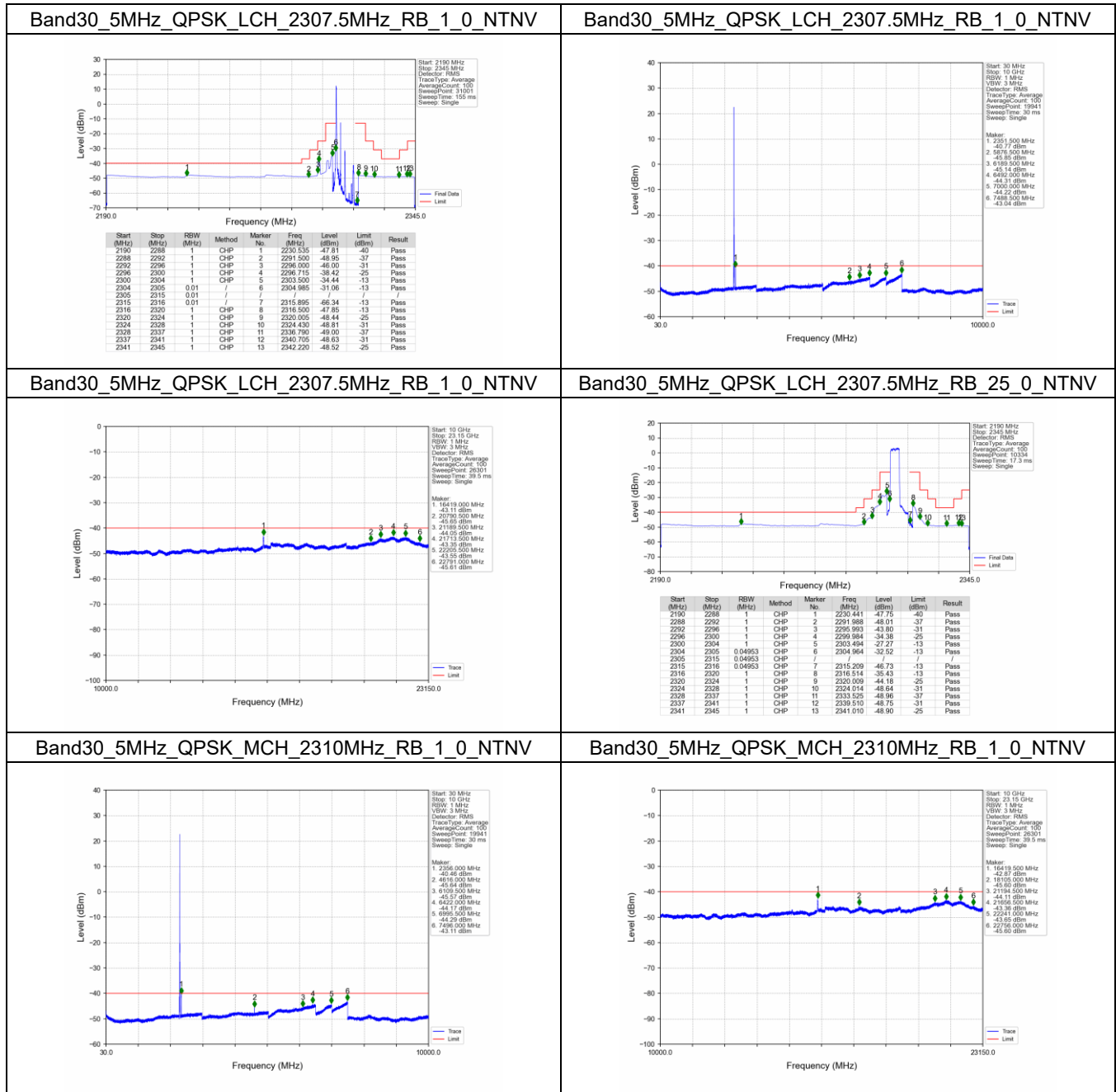
5.1.2 B30_10MHz

Band: 30 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2310	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	2310	1	49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass

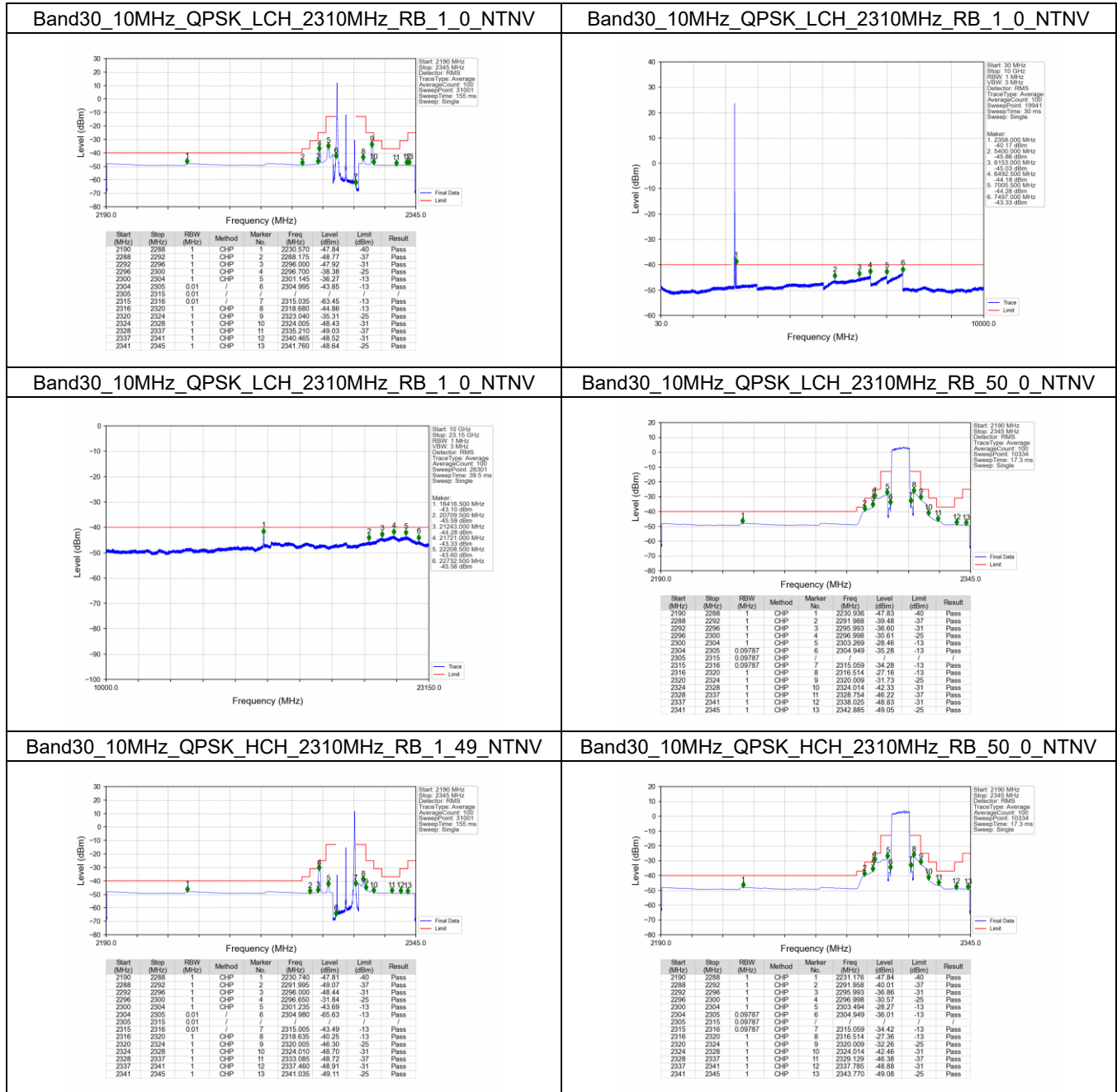


5.2 Test Graph

5.2.1 B30_5MHz



5.2.2 B30_10MHz





6. Frequency Stability (IC)

6.1 Test Result

6.1.1 B30_10MHz

Band: 30 / Bandwidth: 10MHz / NTNV									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	OBW (FL - FH) (MHz)		Limit	Verdict
		Size	Offset			FL	FH		
QPSK	2310	50	0	20	LV	2305.491	2314.495	2305 to 2315	Pass
					NV	2305.503	2314.478	2305 to 2315	Pass
					HV	2305.496	2314.500	2305 to 2315	Pass
				-30	NV	2305.503	2314.501	2305 to 2315	Pass
				-20	NV	2305.513	2314.501	2305 to 2315	Pass
				-10	NV	2305.498	2314.499	2305 to 2315	Pass
				0	NV	2305.497	2314.496	2305 to 2315	Pass
				10	NV	2305.499	2314.492	2305 to 2315	Pass
				30	NV	2305.500	2314.501	2305 to 2315	Pass
				40	NV	2305.504	2314.489	2305 to 2315	Pass
				50	NV	2305.493	2314.495	2305 to 2315	Pass

---End of Attachment---