

Appendix A.4

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	24.15	2.20	26.35	<=33.01	Pass
			13	24.29	2.20	26.49	<=33.01	Pass
			24	24.21	2.20	26.41	<=33.01	Pass
		12	0	23.23	2.20	25.43	<=33.01	Pass
			6	23.29	2.20	25.49	<=33.01	Pass
			13	23.22	2.20	25.42	<=33.01	Pass
		25	0	23.26	2.20	25.46	<=33.01	Pass
	2535	1	0	23.91	2.20	26.11	<=33.01	Pass
			13	24.11	2.20	26.31	<=33.01	Pass
			24	23.92	2.20	26.12	<=33.01	Pass
		12	0	23.14	2.20	25.34	<=33.01	Pass
			6	23.20	2.20	25.40	<=33.01	Pass
			13	23.00	2.20	25.20	<=33.01	Pass
		25	0	23.06	2.20	25.26	<=33.01	Pass
	2567.5	1	0	23.86	2.20	26.06	<=33.01	Pass
			13	23.95	2.20	26.15	<=33.01	Pass
			24	23.83	2.20	26.03	<=33.01	Pass
		12	0	22.93	2.20	25.13	<=33.01	Pass
			6	22.99	2.20	25.19	<=33.01	Pass
			13	23.06	2.20	25.26	<=33.01	Pass
		25	0	22.97	2.20	25.17	<=33.01	Pass
16QAM	2502.5	1	0	23.76	2.20	25.96	<=33.01	Pass
			13	23.71	2.20	25.91	<=33.01	Pass
			24	23.68	2.20	25.88	<=33.01	Pass
		12	0	22.17	2.20	24.37	<=33.01	Pass
			6	22.30	2.20	24.50	<=33.01	Pass
			13	22.31	2.20	24.51	<=33.01	Pass
		25	0	22.20	2.20	24.40	<=33.01	Pass
	2535	1	0	23.29	2.20	25.49	<=33.01	Pass
			13	23.70	2.20	25.90	<=33.01	Pass
			24	23.35	2.20	25.55	<=33.01	Pass
		12	0	22.16	2.20	24.36	<=33.01	Pass
			6	22.16	2.20	24.36	<=33.01	Pass
			13	22.13	2.20	24.33	<=33.01	Pass
		25	0	22.01	2.20	24.21	<=33.01	Pass
	2567.5	1	0	23.14	2.20	25.34	<=33.01	Pass
			13	23.44	2.20	25.64	<=33.01	Pass
			24	23.15	2.20	25.35	<=33.01	Pass
		12	0	21.99	2.20	24.19	<=33.01	Pass
			6	22.00	2.20	24.20	<=33.01	Pass

			13	22.06	2.20	24.26	<=33.01	Pass	
		25	0	22.03	2.20	24.23	<=33.01	Pass	
64QAM	2502.5	1	0	23.40	2.20	25.60	<=33.01	Pass	
			13	23.37	2.20	25.57	<=33.01	Pass	
			24	23.37	2.20	25.57	<=33.01	Pass	
		12	0	22.19	2.20	24.39	<=33.01	Pass	
			6	22.26	2.20	24.46	<=33.01	Pass	
			13	22.28	2.20	24.48	<=33.01	Pass	
		25	0	22.27	2.20	24.47	<=33.01	Pass	
		2535	1	0	23.28	2.20	25.48	<=33.01	Pass
				13	23.31	2.20	25.51	<=33.01	Pass
	24			23.15	2.20	25.35	<=33.01	Pass	
	12		0	22.02	2.20	24.22	<=33.01	Pass	
			6	22.12	2.20	24.32	<=33.01	Pass	
			13	22.13	2.20	24.33	<=33.01	Pass	
	25		0	21.95	2.20	24.15	<=33.01	Pass	
	2567.5	1	0	23.02	2.20	25.22	<=33.01	Pass	
			13	23.13	2.20	25.33	<=33.01	Pass	
			24	23.18	2.20	25.38	<=33.01	Pass	
		12	0	22.03	2.20	24.23	<=33.01	Pass	
			6	21.92	2.20	24.12	<=33.01	Pass	
			13	21.99	2.20	24.19	<=33.01	Pass	
		25	0	21.99	2.20	24.19	<=33.01	Pass	
		256QAM	2502.5	1	0	19.31	2.20	21.51	<=33.01
	13				19.48	2.20	21.68	<=33.01	Pass
24	19.46				2.20	21.66	<=33.01	Pass	
12	0			19.27	2.20	21.47	<=33.01	Pass	
	6			19.33	2.20	21.53	<=33.01	Pass	
	13			19.31	2.20	21.51	<=33.01	Pass	
25	0			19.26	2.20	21.46	<=33.01	Pass	
2535	1		0	19.46	2.20	21.66	<=33.01	Pass	
			13	19.32	2.20	21.52	<=33.01	Pass	
			24	19.26	2.20	21.46	<=33.01	Pass	
	12		0	19.06	2.20	21.26	<=33.01	Pass	
			6	19.17	2.20	21.37	<=33.01	Pass	
			13	19.12	2.20	21.32	<=33.01	Pass	
25	0		19.12	2.20	21.32	<=33.01	Pass		
2567.5	1		0	19.28	2.20	21.48	<=33.01	Pass	
			13	19.45	2.20	21.65	<=33.01	Pass	
			24	19.02	2.20	21.22	<=33.01	Pass	
	12		0	18.97	2.20	21.17	<=33.01	Pass	
			6	18.98	2.20	21.18	<=33.01	Pass	
			13	19.06	2.20	21.26	<=33.01	Pass	
	25		0	19.04	2.20	21.24	<=33.01	Pass	
Note1: EIRP=Conducted Power+Antenna Gain									

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	23.94	2.20	26.14	<=33.01	Pass
			25	23.97	2.20	26.17	<=33.01	Pass
			49	24.03	2.20	26.23	<=33.01	Pass
		25	0	23.19	2.20	25.39	<=33.01	Pass
			13	23.17	2.20	25.37	<=33.01	Pass
			25	23.07	2.20	25.27	<=33.01	Pass
		50	0	23.10	2.20	25.30	<=33.01	Pass
	2535	1	0	23.86	2.20	26.06	<=33.01	Pass
			25	23.88	2.20	26.08	<=33.01	Pass
			49	23.88	2.20	26.08	<=33.01	Pass
		25	0	23.21	2.20	25.41	<=33.01	Pass
			13	23.14	2.20	25.34	<=33.01	Pass
			25	23.03	2.20	25.23	<=33.01	Pass
		50	0	23.08	2.20	25.28	<=33.01	Pass
	2565	1	0	23.95	2.20	26.15	<=33.01	Pass
			25	23.69	2.20	25.89	<=33.01	Pass
			49	23.88	2.20	26.08	<=33.01	Pass
		25	0	23.05	2.20	25.25	<=33.01	Pass
			13	23.13	2.20	25.33	<=33.01	Pass
			25	23.01	2.20	25.21	<=33.01	Pass
		50	0	23.01	2.20	25.21	<=33.01	Pass
16QAM	2505	1	0	23.43	2.20	25.63	<=33.01	Pass
			25	23.48	2.20	25.68	<=33.01	Pass
			49	23.25	2.20	25.45	<=33.01	Pass
		25	0	22.34	2.20	24.54	<=33.01	Pass
			13	22.30	2.20	24.50	<=33.01	Pass
			25	22.13	2.20	24.33	<=33.01	Pass
		50	0	22.18	2.20	24.38	<=33.01	Pass
	2535	1	0	23.57	2.20	25.77	<=33.01	Pass
			25	23.27	2.20	25.47	<=33.01	Pass
			49	23.30	2.20	25.50	<=33.01	Pass
		25	0	22.25	2.20	24.45	<=33.01	Pass
			13	22.10	2.20	24.30	<=33.01	Pass
			25	22.17	2.20	24.37	<=33.01	Pass
		50	0	22.11	2.20	24.31	<=33.01	Pass
	2565	1	0	23.20	2.20	25.40	<=33.01	Pass
			25	23.19	2.20	25.39	<=33.01	Pass
			49	23.34	2.20	25.54	<=33.01	Pass
		25	0	22.03	2.20	24.23	<=33.01	Pass
			13	22.13	2.20	24.33	<=33.01	Pass
			25	22.05	2.20	24.25	<=33.01	Pass
		50	0	22.19	2.20	24.39	<=33.01	Pass
64QAM	2505	1	0	23.63	2.20	25.83	<=33.01	Pass
			25	23.36	2.20	25.56	<=33.01	Pass
			49	23.37	2.20	25.57	<=33.01	Pass
		25	0	22.32	2.20	24.52	<=33.01	Pass
			13	22.29	2.20	24.49	<=33.01	Pass
			25	22.13	2.20	24.33	<=33.01	Pass
		50	0	22.07	2.20	24.27	<=33.01	Pass
	2535	1	0	23.33	2.20	25.53	<=33.01	Pass
			25	23.14	2.20	25.34	<=33.01	Pass
			49	23.38	2.20	25.58	<=33.01	Pass
		25	0	22.14	2.20	24.34	<=33.01	Pass



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		50	13	22.09	2.20	24.29	<=33.01	Pass
			25	22.05	2.20	24.25	<=33.01	Pass
			0	22.11	2.20	24.31	<=33.01	Pass
	2565	1	0	23.08	2.20	25.28	<=33.01	Pass
			25	23.04	2.20	25.24	<=33.01	Pass
			49	23.19	2.20	25.39	<=33.01	Pass
		25	0	22.14	2.20	24.34	<=33.01	Pass
			13	22.04	2.20	24.24	<=33.01	Pass
			25	21.89	2.20	24.09	<=33.01	Pass
		50	0	22.12	2.20	24.32	<=33.01	Pass
256QAM	2505	1	0	19.27	2.20	21.47	<=33.01	Pass
			25	19.09	2.20	21.29	<=33.01	Pass
			49	19.25	2.20	21.45	<=33.01	Pass
		25	0	19.16	2.20	21.36	<=33.01	Pass
			13	19.23	2.20	21.43	<=33.01	Pass
			25	19.18	2.20	21.38	<=33.01	Pass
		50	0	19.11	2.20	21.31	<=33.01	Pass
	2535	1	0	19.35	2.20	21.55	<=33.01	Pass
			25	19.02	2.20	21.22	<=33.01	Pass
			49	19.04	2.20	21.24	<=33.01	Pass
		25	0	19.06	2.20	21.26	<=33.01	Pass
			13	19.19	2.20	21.39	<=33.01	Pass
			25	18.98	2.20	21.18	<=33.01	Pass
		50	0	19.07	2.20	21.27	<=33.01	Pass
	2565	1	0	19.13	2.20	21.33	<=33.01	Pass
			25	19.00	2.20	21.20	<=33.01	Pass
			49	19.02	2.20	21.22	<=33.01	Pass
		25	0	19.05	2.20	21.25	<=33.01	Pass
			13	19.09	2.20	21.29	<=33.01	Pass
			25	18.92	2.20	21.12	<=33.01	Pass
		50	0	19.14	2.20	21.34	<=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	24.02	2.20	26.22	<=33.01	Pass
			38	23.79	2.20	25.99	<=33.01	Pass
			74	23.83	2.20	26.03	<=33.01	Pass
		36	0	23.14	2.20	25.34	<=33.01	Pass
			18	23.07	2.20	25.27	<=33.01	Pass
			39	23.01	2.20	25.21	<=33.01	Pass
		75	0	23.05	2.20	25.25	<=33.01	Pass
	2535	1	0	23.87	2.20	26.07	<=33.01	Pass
			38	23.70	2.20	25.90	<=33.01	Pass
			74	23.74	2.20	25.94	<=33.01	Pass
		36	0	23.11	2.20	25.31	<=33.01	Pass
			18	23.01	2.20	25.21	<=33.01	Pass
			39	22.89	2.20	25.09	<=33.01	Pass

		75	0	22.98	2.20	25.18	<=33.01	Pass	
	2562.5	1	0	23.81	2.20	26.01	<=33.01	Pass	
			38	23.66	2.20	25.86	<=33.01	Pass	
			74	23.65	2.20	25.85	<=33.01	Pass	
			0	23.00	2.20	25.20	<=33.01	Pass	
		36	18	22.96	2.20	25.16	<=33.01	Pass	
			39	22.92	2.20	25.12	<=33.01	Pass	
75		0	23.02	2.20	25.22	<=33.01	Pass		
16QAM	2507.5	1	0	23.34	2.20	25.54	<=33.01	Pass	
			38	23.22	2.20	25.42	<=33.01	Pass	
			74	23.15	2.20	25.35	<=33.01	Pass	
		36	0	22.25	2.20	24.45	<=33.01	Pass	
			18	22.01	2.20	24.21	<=33.01	Pass	
			39	21.98	2.20	24.18	<=33.01	Pass	
		75	0	22.05	2.20	24.25	<=33.01	Pass	
	2535	1	0	23.39	2.20	25.59	<=33.01	Pass	
			38	23.22	2.20	25.42	<=33.01	Pass	
			74	23.16	2.20	25.36	<=33.01	Pass	
		36	0	22.11	2.20	24.31	<=33.01	Pass	
			18	22.11	2.20	24.31	<=33.01	Pass	
			39	22.00	2.20	24.20	<=33.01	Pass	
		75	0	22.03	2.20	24.23	<=33.01	Pass	
	2562.5	1	0	23.24	2.20	25.44	<=33.01	Pass	
			38	23.07	2.20	25.27	<=33.01	Pass	
			74	23.17	2.20	25.37	<=33.01	Pass	
		36	0	22.07	2.20	24.27	<=33.01	Pass	
			18	21.96	2.20	24.16	<=33.01	Pass	
			39	21.85	2.20	24.05	<=33.01	Pass	
		75	0	21.97	2.20	24.17	<=33.01	Pass	
	64QAM	2507.5	1	0	23.30	2.20	25.50	<=33.01	Pass
				38	23.25	2.20	25.45	<=33.01	Pass
				74	23.08	2.20	25.28	<=33.01	Pass
			36	0	22.16	2.20	24.36	<=33.01	Pass
				18	22.01	2.20	24.21	<=33.01	Pass
				39	22.00	2.20	24.20	<=33.01	Pass
			75	0	22.04	2.20	24.24	<=33.01	Pass
		2535	1	0	23.30	2.20	25.50	<=33.01	Pass
38				23.23	2.20	25.43	<=33.01	Pass	
74				23.14	2.20	25.34	<=33.01	Pass	
36			0	22.11	2.20	24.31	<=33.01	Pass	
			18	22.02	2.20	24.22	<=33.01	Pass	
			39	21.93	2.20	24.13	<=33.01	Pass	
75			0	22.02	2.20	24.22	<=33.01	Pass	
2562.5		1	0	23.17	2.20	25.37	<=33.01	Pass	
			38	22.94	2.20	25.14	<=33.01	Pass	
			74	23.11	2.20	25.31	<=33.01	Pass	
		36	0	22.06	2.20	24.26	<=33.01	Pass	
			18	21.97	2.20	24.17	<=33.01	Pass	
			39	21.77	2.20	23.97	<=33.01	Pass	
		75	0	21.97	2.20	24.17	<=33.01	Pass	
256QAM		2507.5	1	0	19.14	2.20	21.34	<=33.01	Pass
				38	19.14	2.20	21.34	<=33.01	Pass
				74	19.26	2.20	21.46	<=33.01	Pass



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		36	0	19.14	2.20	21.34	<=33.01	Pass
			18	19.05	2.20	21.25	<=33.01	Pass
			39	19.11	2.20	21.31	<=33.01	Pass
		75	0	19.04	2.20	21.24	<=33.01	Pass
	2535	1	0	19.16	2.20	21.36	<=33.01	Pass
			38	19.11	2.20	21.31	<=33.01	Pass
			74	19.10	2.20	21.30	<=33.01	Pass
		36	0	19.12	2.20	21.32	<=33.01	Pass
			18	19.14	2.20	21.34	<=33.01	Pass
			39	18.93	2.20	21.13	<=33.01	Pass
		75	0	18.92	2.20	21.12	<=33.01	Pass
	2562.5	1	0	19.08	2.20	21.28	<=33.01	Pass
			38	18.85	2.20	21.05	<=33.01	Pass
			74	18.92	2.20	21.12	<=33.01	Pass
		36	0	19.04	2.20	21.24	<=33.01	Pass
			18	18.89	2.20	21.09	<=33.01	Pass
			39	18.83	2.20	21.03	<=33.01	Pass
		75	0	19.02	2.20	21.22	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.4 B7_20MHz_EIRP

Band: 7 / Bandwidth: 20MHz / NTV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2510	1	0	23.96	2.20	26.16	<=33.01	Pass
			50	23.93	2.20	26.13	<=33.01	Pass
			99	23.95	2.20	26.15	<=33.01	Pass
		50	0	23.17	2.20	25.37	<=33.01	Pass
			25	23.13	2.20	25.33	<=33.01	Pass
			50	23.00	2.20	25.20	<=33.01	Pass
		100	0	23.03	2.20	25.23	<=33.01	Pass
	2535	1	0	24.05	2.20	26.25	<=33.01	Pass
			50	23.75	2.20	25.95	<=33.01	Pass
			99	23.78	2.20	25.98	<=33.01	Pass
		50	0	23.14	2.20	25.34	<=33.01	Pass
			25	22.99	2.20	25.19	<=33.01	Pass
			50	22.96	2.20	25.16	<=33.01	Pass
		100	0	23.01	2.20	25.21	<=33.01	Pass
	2560	1	0	24.01	2.20	26.21	<=33.01	Pass
			50	23.73	2.20	25.93	<=33.01	Pass
			99	23.63	2.20	25.83	<=33.01	Pass
		50	0	23.05	2.20	25.25	<=33.01	Pass
			25	22.99	2.20	25.19	<=33.01	Pass
			50	22.99	2.20	25.19	<=33.01	Pass
		100	0	22.99	2.20	25.19	<=33.01	Pass
16QAM	2510	1	0	23.38	2.20	25.58	<=33.01	Pass
			50	23.26	2.20	25.46	<=33.01	Pass
			99	23.35	2.20	25.55	<=33.01	Pass
		50	0	22.07	2.20	24.27	<=33.01	Pass
			25	22.15	2.20	24.35	<=33.01	Pass

			50	22.02	2.20	24.22	<=33.01	Pass	
		100	0	22.04	2.20	24.24	<=33.01	Pass	
	2535	1	0	23.40	2.20	25.60	<=33.01	Pass	
			50	23.07	2.20	25.27	<=33.01	Pass	
			99	23.24	2.20	25.44	<=33.01	Pass	
		50	0	22.16	2.20	24.36	<=33.01	Pass	
			25	22.03	2.20	24.23	<=33.01	Pass	
			50	21.97	2.20	24.17	<=33.01	Pass	
		100	0	22.05	2.20	24.25	<=33.01	Pass	
	2560	1	0	23.28	2.20	25.48	<=33.01	Pass	
			50	23.08	2.20	25.28	<=33.01	Pass	
			99	23.14	2.20	25.34	<=33.01	Pass	
		50	0	22.01	2.20	24.21	<=33.01	Pass	
			25	22.04	2.20	24.24	<=33.01	Pass	
			50	21.89	2.20	24.09	<=33.01	Pass	
100		0	21.98	2.20	24.18	<=33.01	Pass		
64QAM	2510	1	0	23.15	2.20	25.35	<=33.01	Pass	
			50	23.29	2.20	25.49	<=33.01	Pass	
			99	23.20	2.20	25.40	<=33.01	Pass	
		50	0	22.00	2.20	24.20	<=33.01	Pass	
			25	22.09	2.20	24.29	<=33.01	Pass	
			50	21.91	2.20	24.11	<=33.01	Pass	
		100	0	22.09	2.20	24.29	<=33.01	Pass	
	2535	1	0	23.30	2.20	25.50	<=33.01	Pass	
			50	23.12	2.20	25.32	<=33.01	Pass	
			99	23.14	2.20	25.34	<=33.01	Pass	
		50	0	22.15	2.20	24.35	<=33.01	Pass	
			25	22.02	2.20	24.22	<=33.01	Pass	
			50	21.96	2.20	24.16	<=33.01	Pass	
		100	0	22.05	2.20	24.25	<=33.01	Pass	
	2560	1	0	23.36	2.20	25.56	<=33.01	Pass	
			50	23.08	2.20	25.28	<=33.01	Pass	
			99	23.00	2.20	25.20	<=33.01	Pass	
		50	0	22.26	2.20	24.46	<=33.01	Pass	
			25	21.96	2.20	24.16	<=33.01	Pass	
			50	21.97	2.20	24.17	<=33.01	Pass	
		100	0	22.08	2.20	24.28	<=33.01	Pass	
	256QAM	2510	1	0	19.22	2.20	21.42	<=33.01	Pass
				50	19.11	2.20	21.31	<=33.01	Pass
				99	19.22	2.20	21.42	<=33.01	Pass
			50	0	19.08	2.20	21.28	<=33.01	Pass
25				19.08	2.20	21.28	<=33.01	Pass	
50				18.95	2.20	21.15	<=33.01	Pass	
100		0	19.07	2.20	21.27	<=33.01	Pass		
2535		1	0	19.23	2.20	21.43	<=33.01	Pass	
			50	19.15	2.20	21.35	<=33.01	Pass	
			99	19.03	2.20	21.23	<=33.01	Pass	
		50	0	19.13	2.20	21.33	<=33.01	Pass	
			25	19.02	2.20	21.22	<=33.01	Pass	
			50	19.04	2.20	21.24	<=33.01	Pass	
100		0	19.04	2.20	21.24	<=33.01	Pass		
2560		1	0	19.14	2.20	21.34	<=33.01	Pass	
	50		18.99	2.20	21.19	<=33.01	Pass		



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			99	19.04	2.20	21.24	<=33.01	Pass
		50	0	19.11	2.20	21.31	<=33.01	Pass
			25	18.99	2.20	21.19	<=33.01	Pass
			50	18.99	2.20	21.19	<=33.01	Pass
		100	0	19.01	2.20	21.21	<=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	3.27	0.200	0.0001	-2.5 to 2.5	Pass
					3.85	3.500	0.0014	-2.5 to 2.5	Pass
					4.43	3.400	0.0013	-2.5 to 2.5	Pass
				-30	3.85	4.300	0.0017	-2.5 to 2.5	Pass
				-20	3.85	3.000	0.0012	-2.5 to 2.5	Pass
				-10	3.85	3.700	0.0015	-2.5 to 2.5	Pass
				0	3.85	-1.200	-0.0005	-2.5 to 2.5	Pass
				10	3.85	-0.300	-0.0001	-2.5 to 2.5	Pass
				30	3.85	2.200	0.0009	-2.5 to 2.5	Pass
				40	3.85	-1.600	-0.0006	-2.5 to 2.5	Pass
				50	3.85	2.800	0.0011	-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	4.499	/	Pass
	16QAM	2535	25	0	4.504	/	Pass
	64QAM	2535	25	0	4.505	/	Pass
	256QAM	2535	25	0	4.500	/	Pass
10	QPSK	2535	50	0	8.958	/	Pass
	16QAM	2535	50	0	8.946	/	Pass
	64QAM	2535	50	0	8.949	/	Pass
	256QAM	2535	50	0	8.963	/	Pass
15	QPSK	2535	75	0	13.462	/	Pass
	16QAM	2535	75	0	13.465	/	Pass



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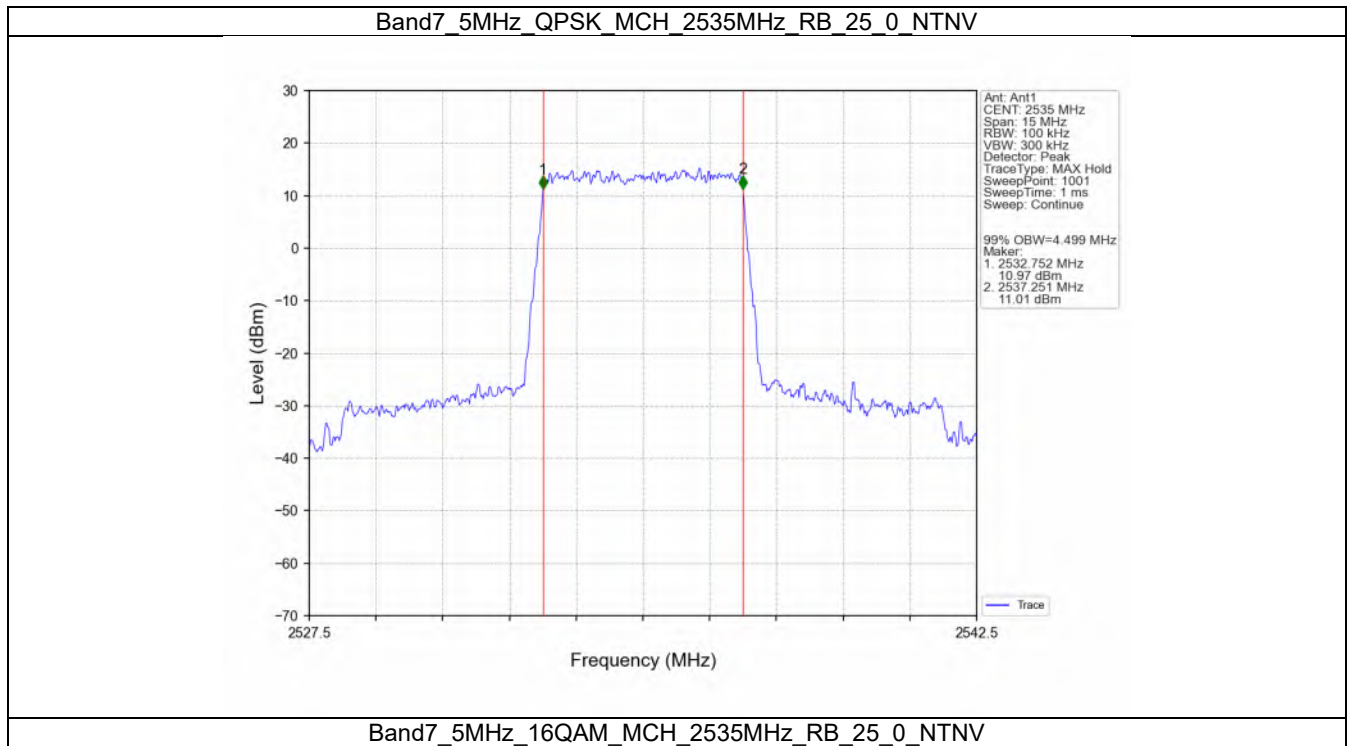
20	64QAM	2535	75	0	13.441	/	Pass
	256QAM	2535	75	0	13.447	/	Pass
	QPSK	2535	100	0	17.886	/	Pass
	16QAM	2535	100	0	17.923	/	Pass
	64QAM	2535	100	0	17.907	/	Pass
	256QAM	2535	100	0	17.922	/	Pass

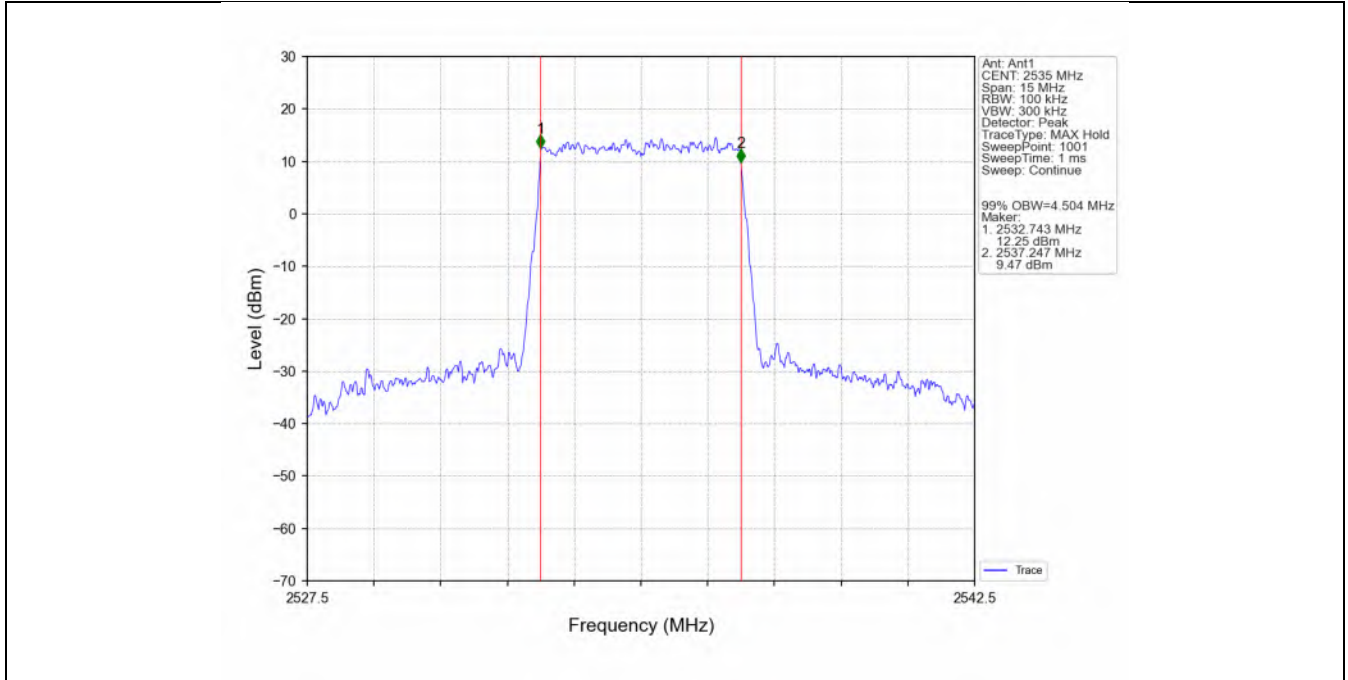
3.1.2 Band7_XDB

Band: 7 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2535	25	0	4.989	/	Pass
	16QAM	2535	25	0	4.972	/	Pass
	64QAM	2535	25	0	4.949	/	Pass
	256QAM	2535	25	0	4.923	/	Pass
10	QPSK	2535	50	0	9.713	/	Pass
	16QAM	2535	50	0	9.676	/	Pass
	64QAM	2535	50	0	9.701	/	Pass
	256QAM	2535	50	0	9.591	/	Pass
15	QPSK	2535	75	0	14.489	/	Pass
	16QAM	2535	75	0	14.527	/	Pass
	64QAM	2535	75	0	14.498	/	Pass
	256QAM	2535	75	0	14.455	/	Pass
20	QPSK	2535	100	0	19.052	/	Pass
	16QAM	2535	100	0	19.217	/	Pass
	64QAM	2535	100	0	19.203	/	Pass
	256QAM	2535	100	0	19.183	/	Pass

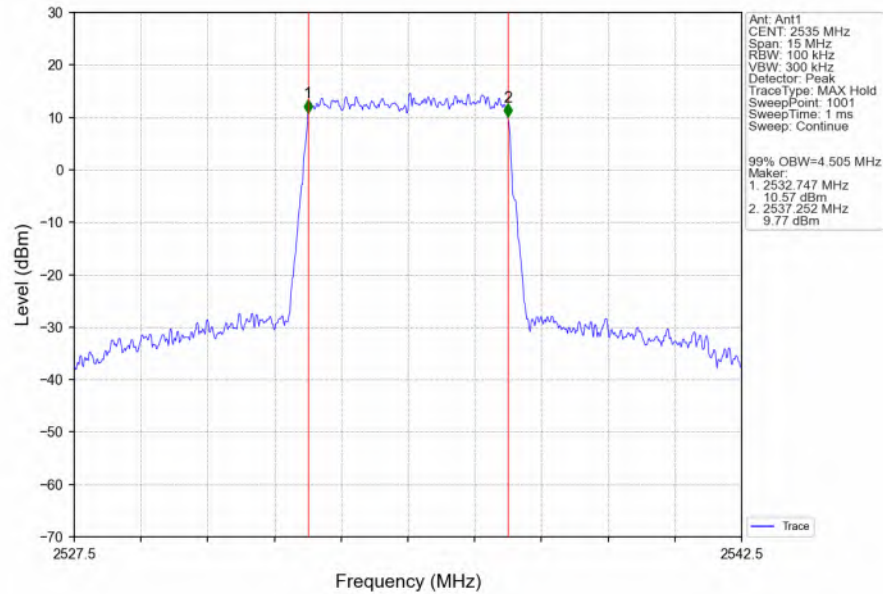
3.2 Test Graph

3.2.1 Band7_OBW

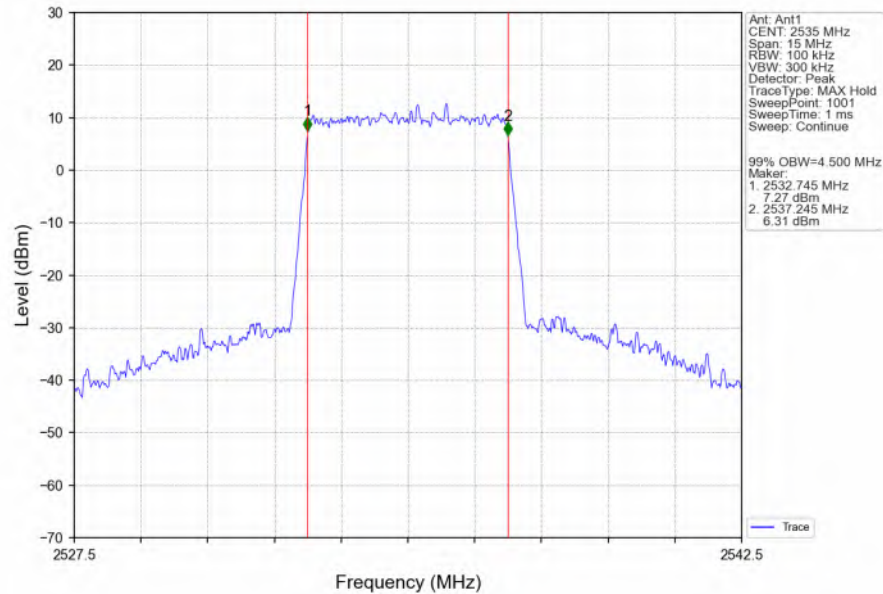




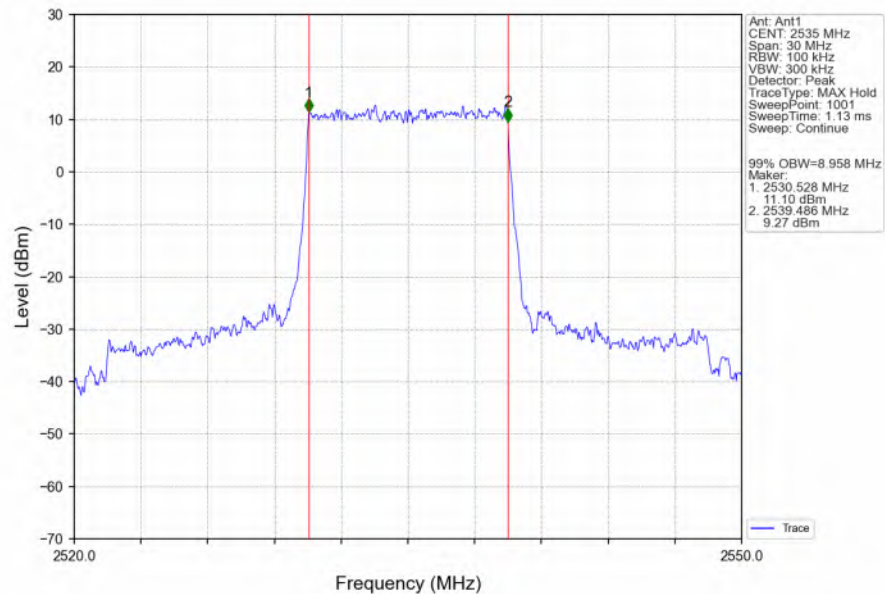
Band7_5MHz_64QAM_MCH_2535MHz_RB_25_0_NTNV



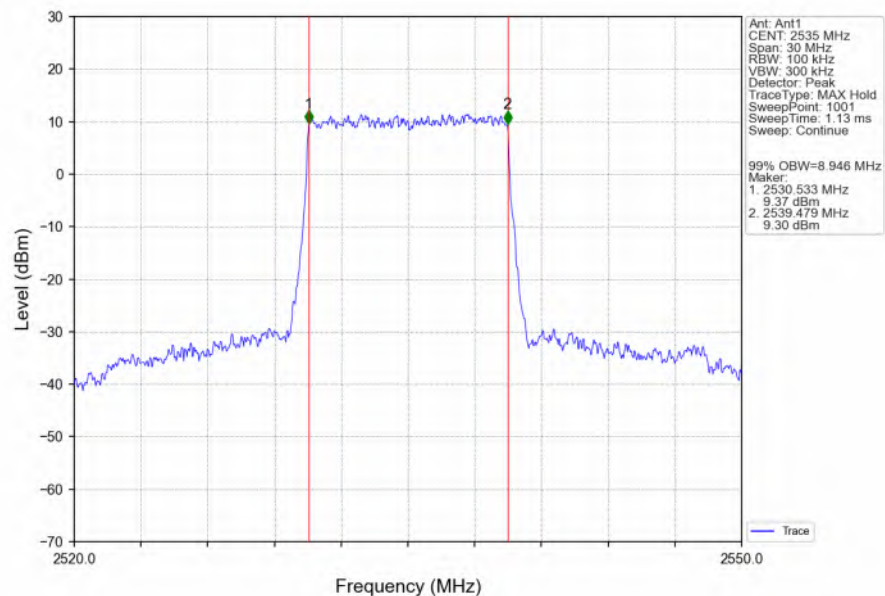
Band7_5MHz_256QAM_MCH_2535MHz_RB_25_0_NTNV



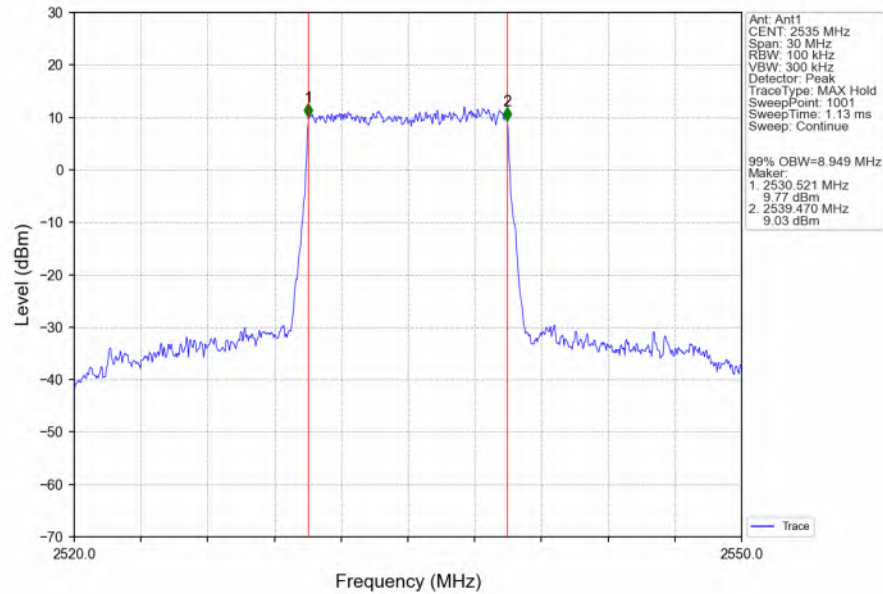
Band7_10MHz_QPSK_MCH_2535MHz_RB_50_0_NTNV



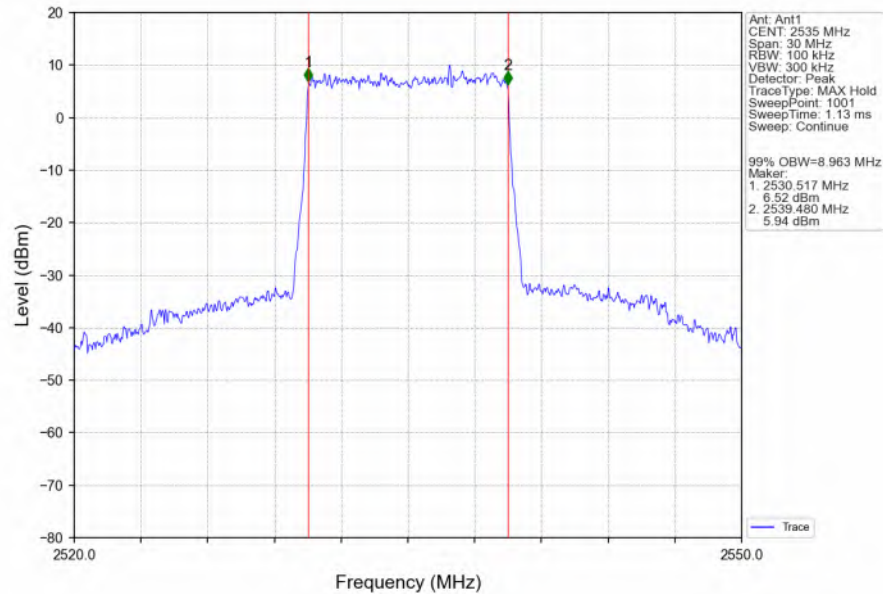
Band7_10MHz_16QAM_MCH_2535MHz_RB_50_0_NTNV



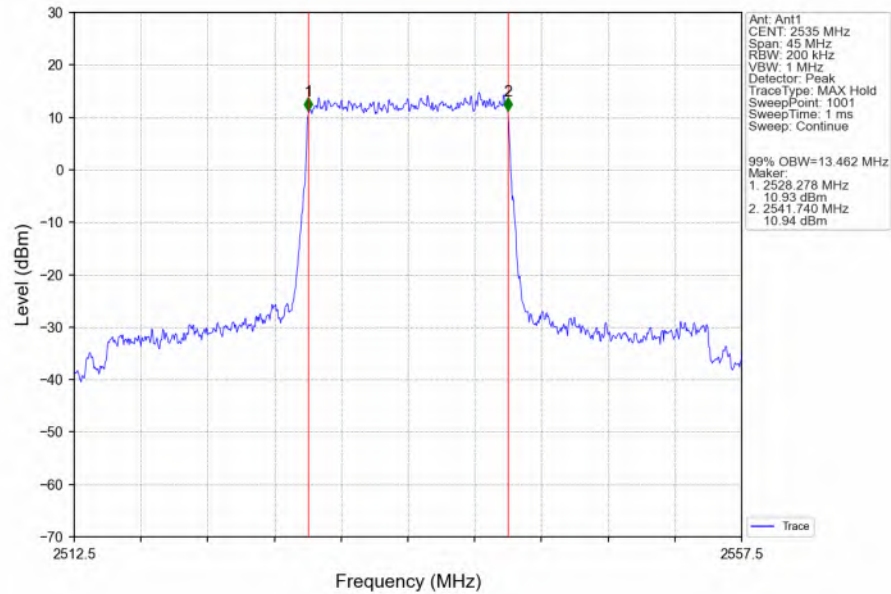
Band7_10MHz_64QAM_MCH_2535MHz_RB_50_0_NTNV



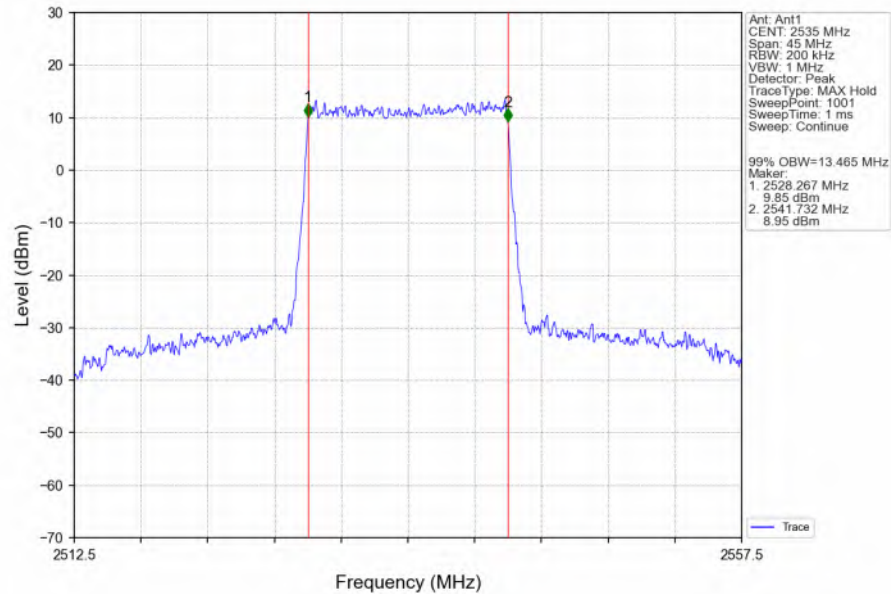
Band7_10MHz_256QAM_MCH_2535MHz_RB_50_0_NTNV



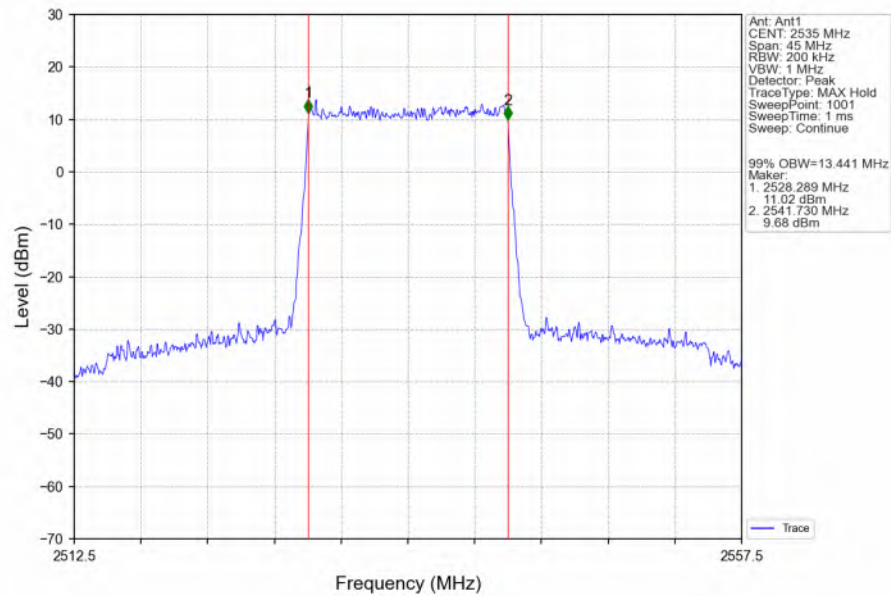
Band7_15MHz_QPSK_MCH_2535MHz_RB_75_0_NTNV



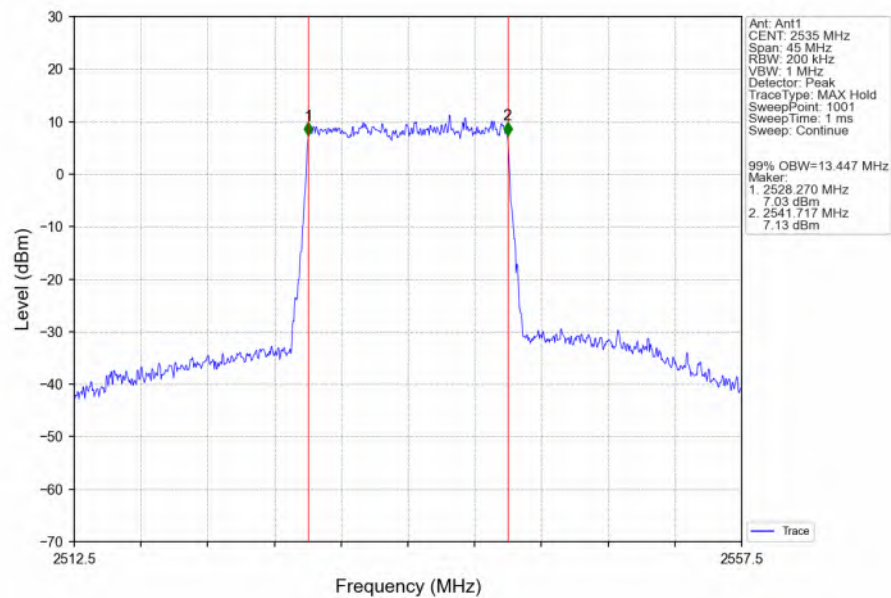
Band7_15MHz_16QAM_MCH_2535MHz_RB_75_0_NTNV



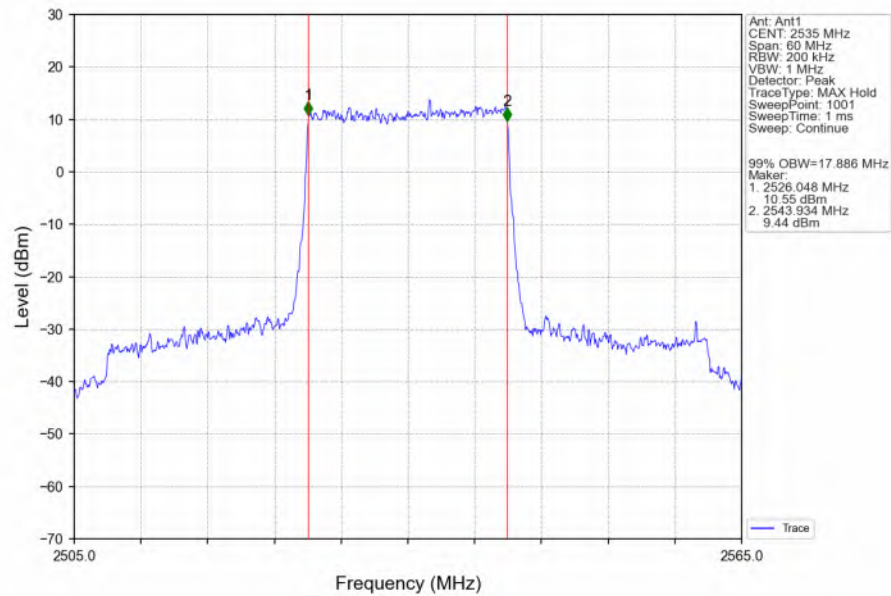
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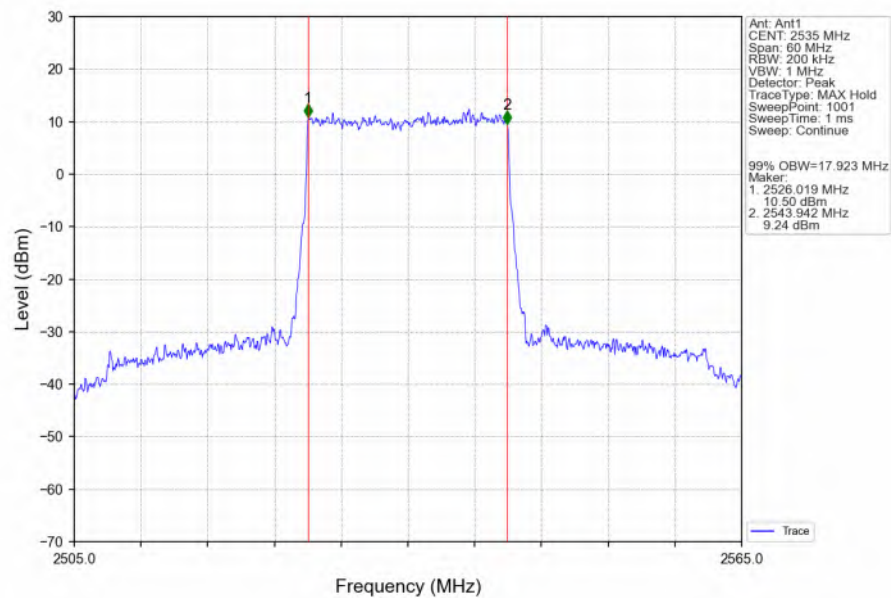
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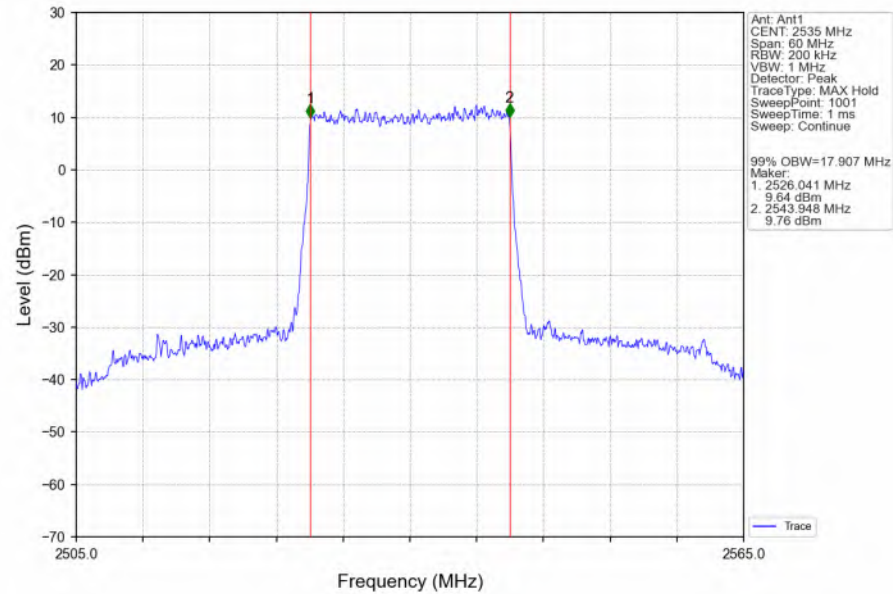
Band7_20MHz_QPSK_MCH_2535MHz_RB_100_0_NTNV



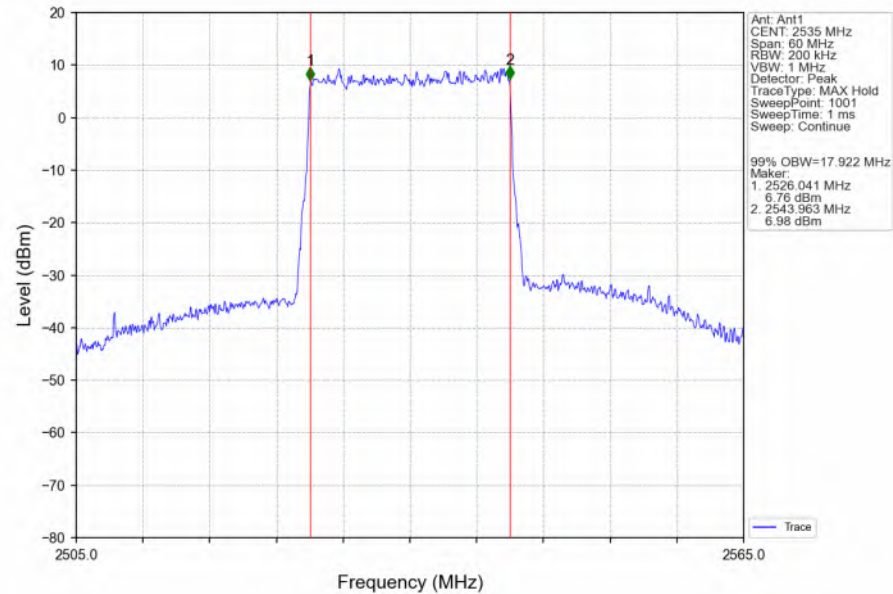
Band7_20MHz_16QAM_MCH_2535MHz_RB_100_0_NTNV



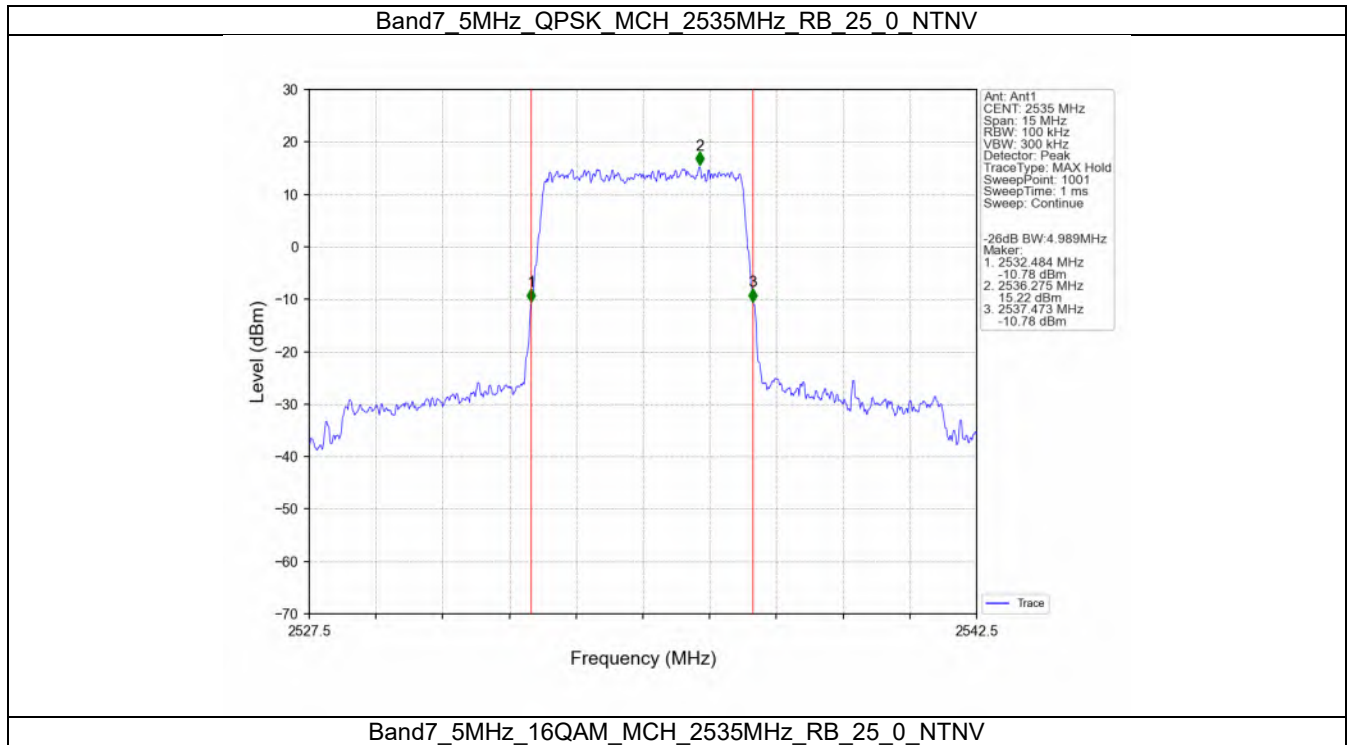
Band7_20MHz_64QAM_MCH_2535MHz_RB_100_0_NTNV

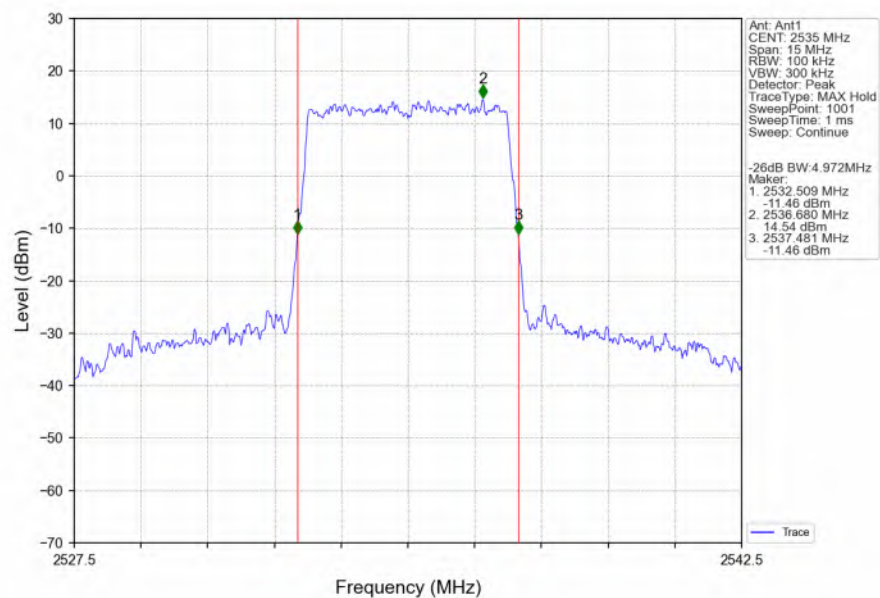


Band7_20MHz_256QAM_MCH_2535MHz_RB_100_0_NTNV

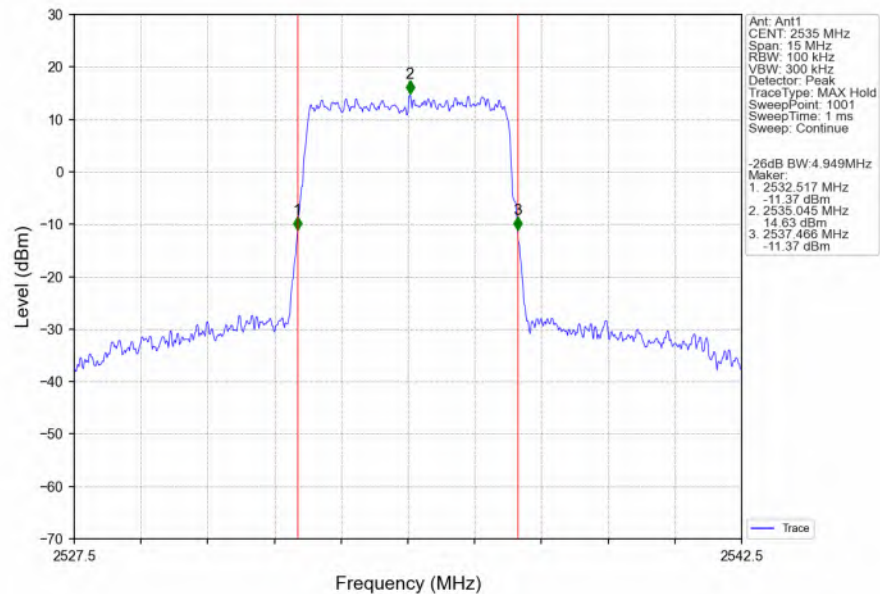


3.2.2 Band7_XDB

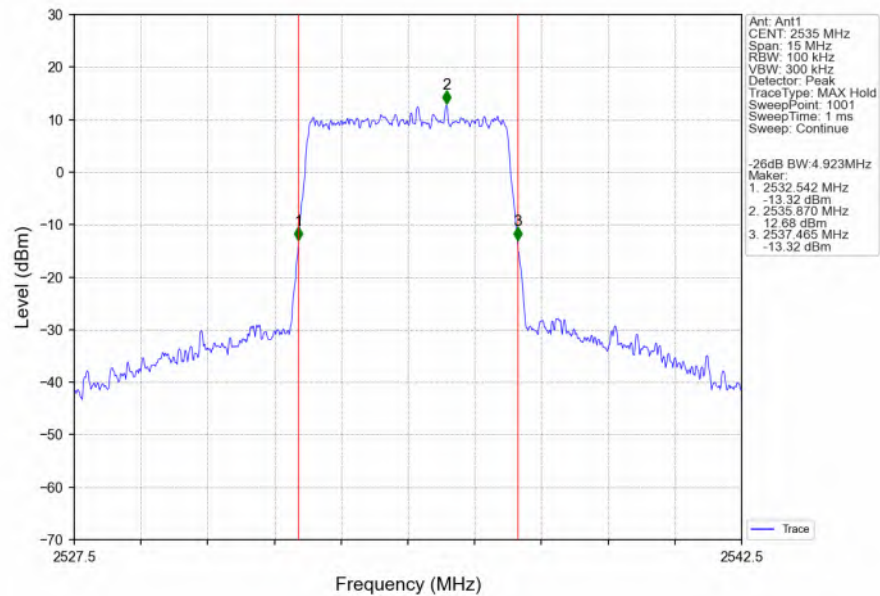




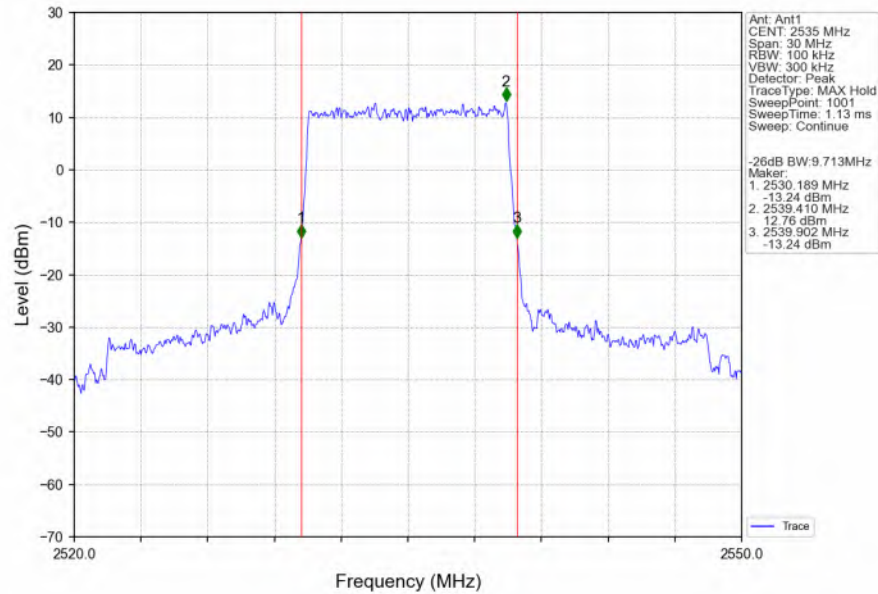
Band7_5MHz_64QAM_MCH_2535MHz_RB_25_0_NTNV



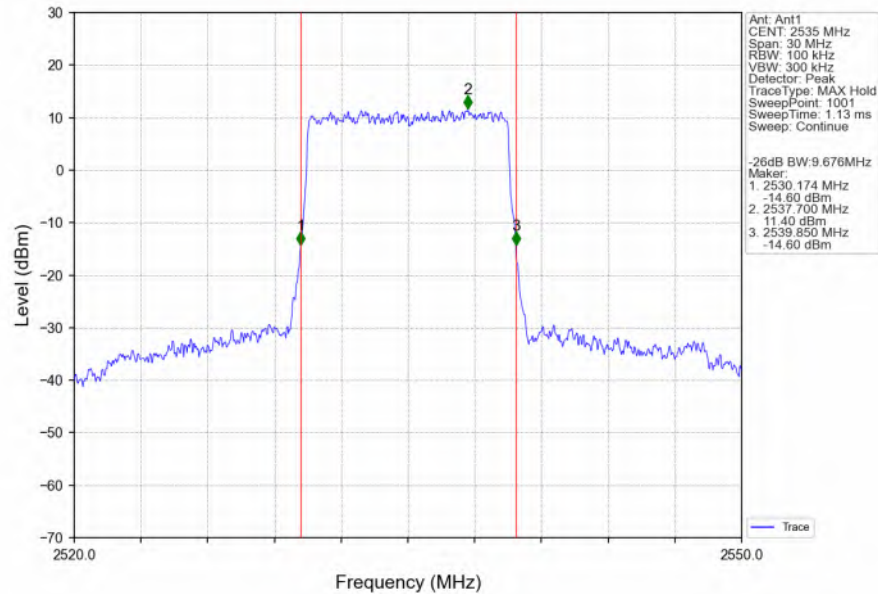
Band7_5MHz_256QAM_MCH_2535MHz_RB_25_0_NTNV



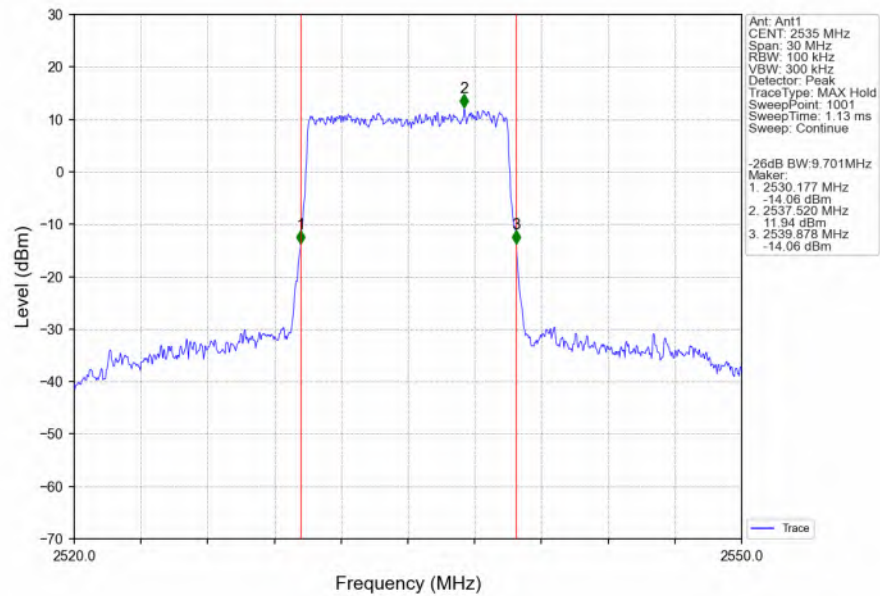
Band7_10MHz_QPSK_MCH_2535MHz_RB_50_0_NTNV



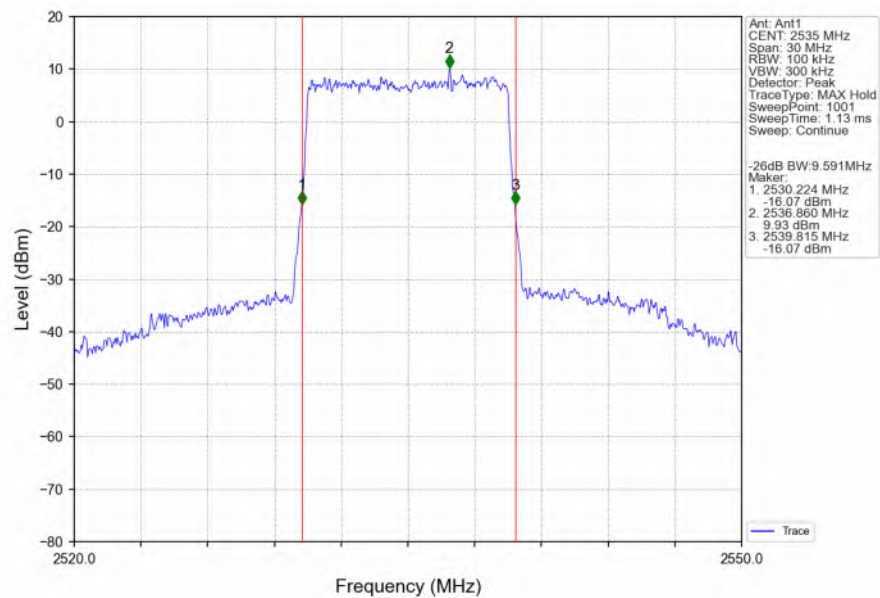
Band7_10MHz_16QAM_MCH_2535MHz_RB_50_0_NTNV



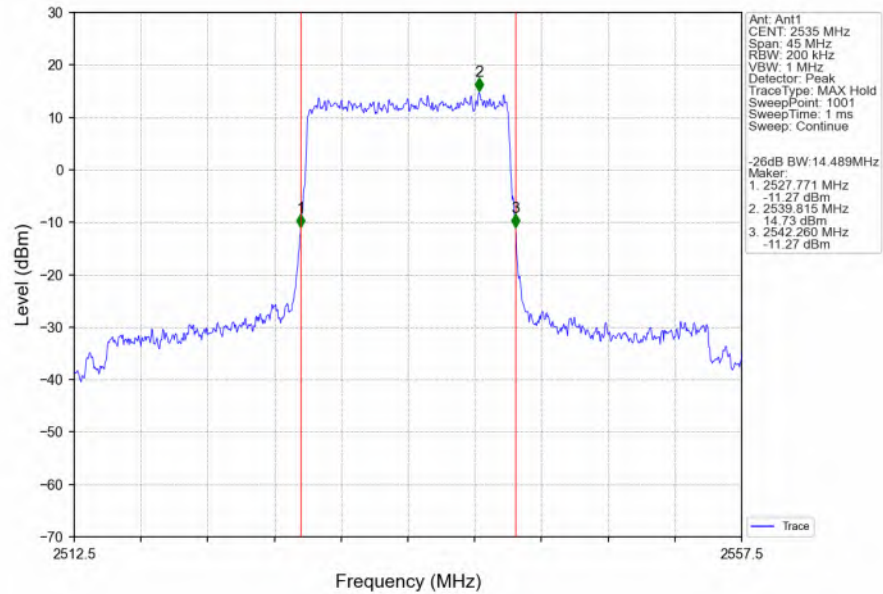
Band7_10MHz_64QAM_MCH_2535MHz_RB_50_0_NTNV



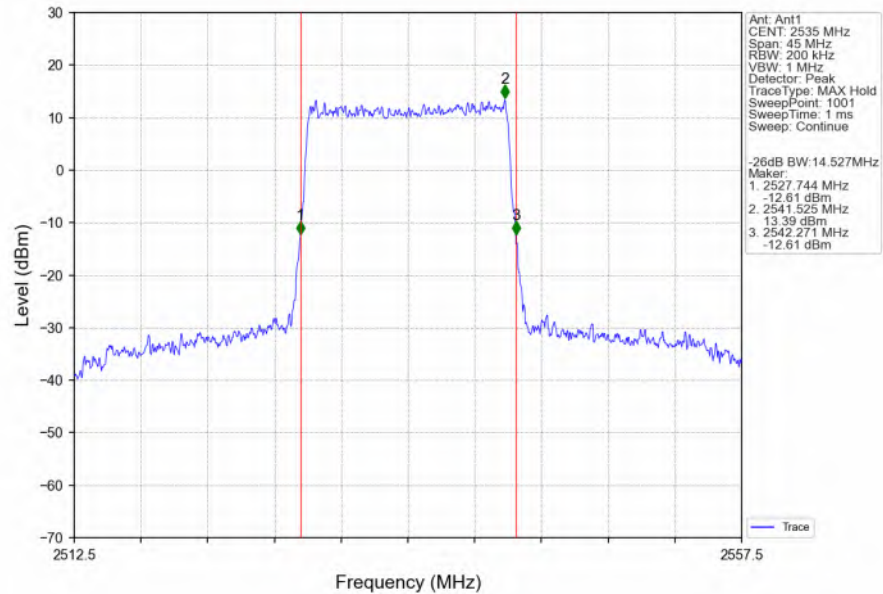
Band7_10MHz_256QAM_MCH_2535MHz_RB_50_0_NTNV



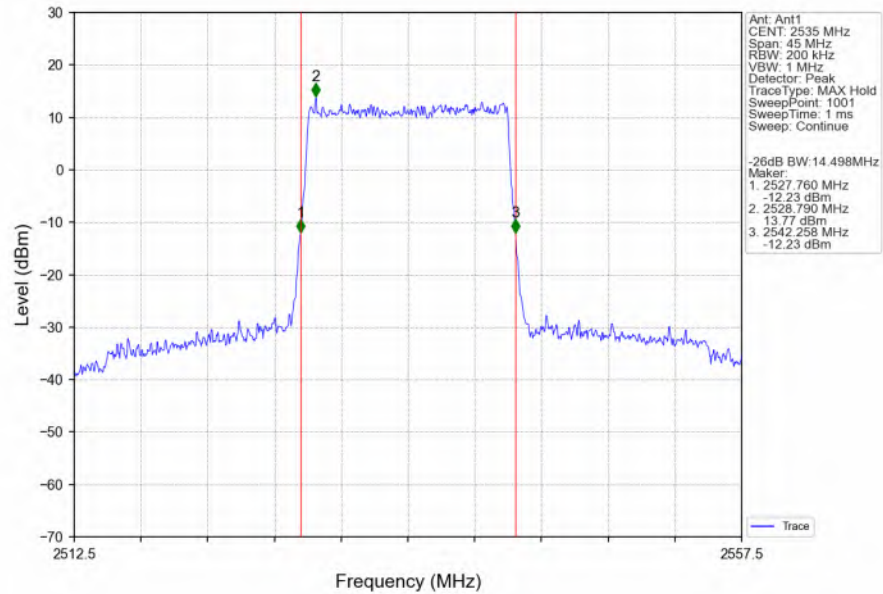
Band7_15MHz_QPSK_MCH_2535MHz_RB_75_0_NTNV



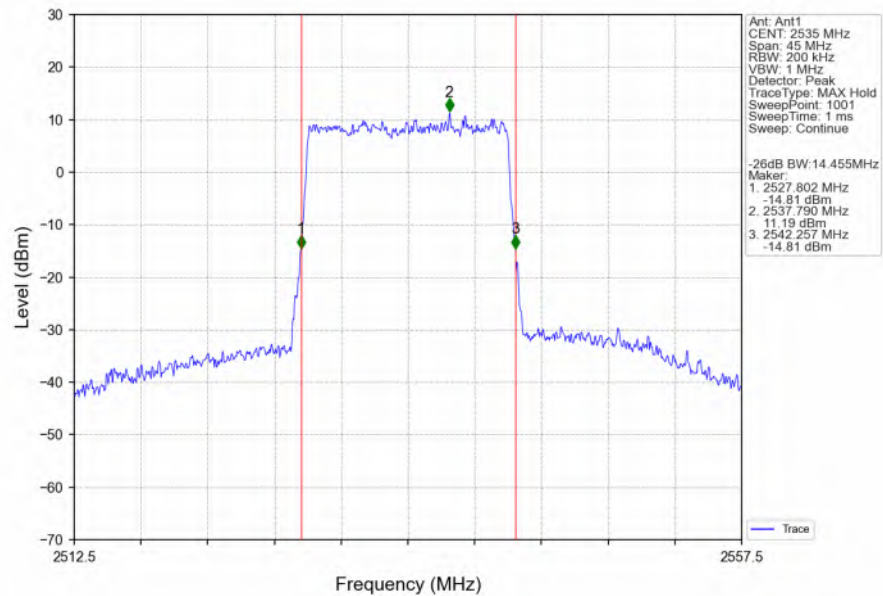
Band7_15MHz_16QAM_MCH_2535MHz_RB_75_0_NTNV



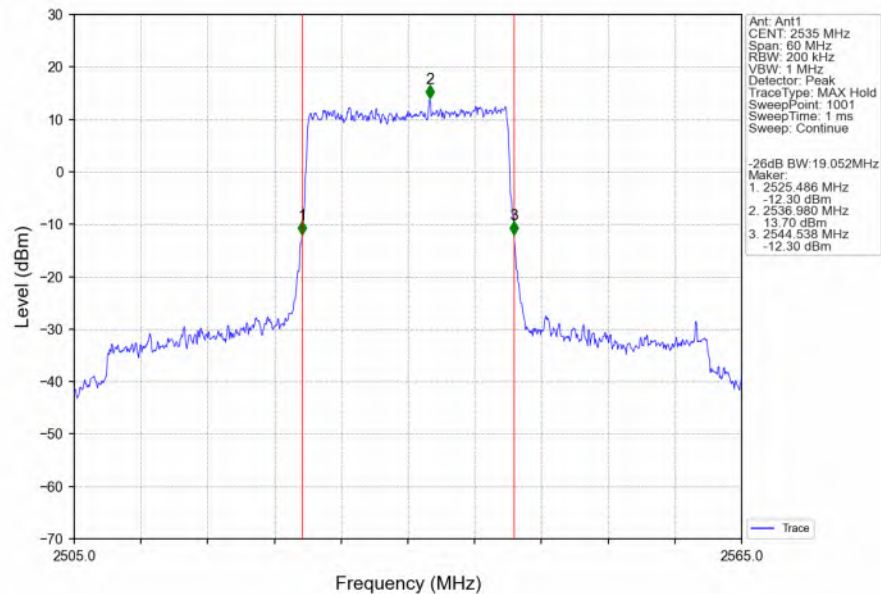
Band7_15MHz_64QAM_MCH_2535MHz_RB_75_0_NTNV



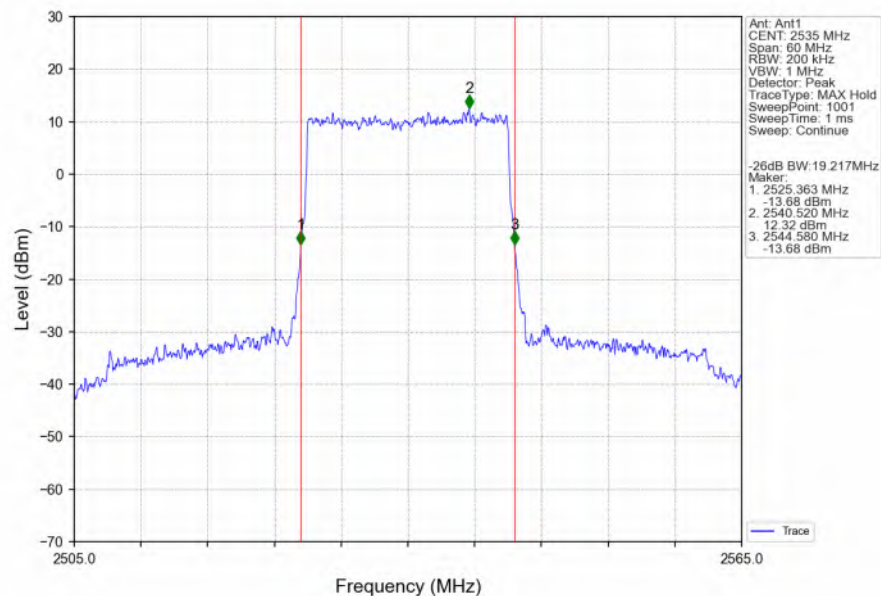
Band7_15MHz_256QAM_MCH_2535MHz_RB_75_0_NTNV



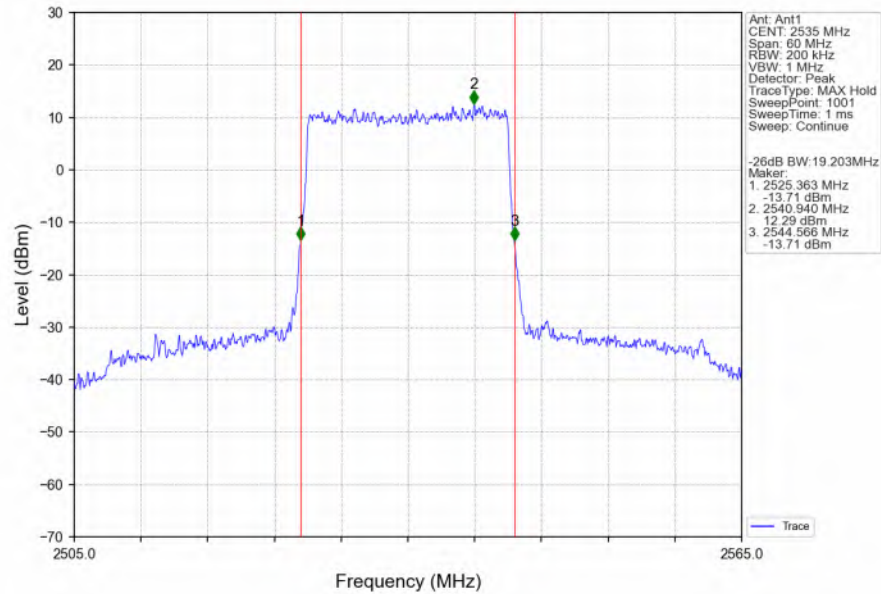
Band7_20MHz_QPSK_MCH_2535MHz_RB_100_0_NTNV



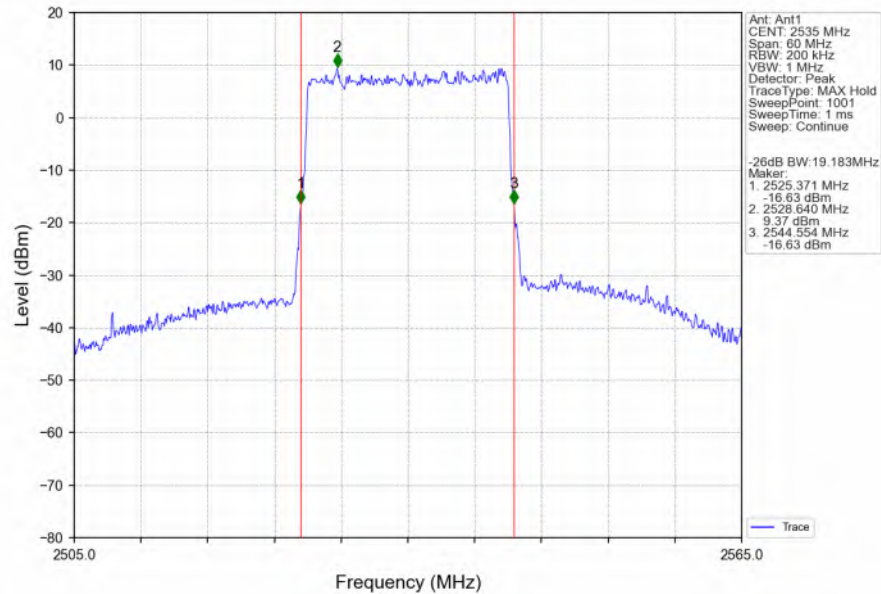
Band7_20MHz_16QAM_MCH_2535MHz_RB_100_0_NTNV



Band7_20MHz_64QAM_MCH_2535MHz_RB_100_0_NTNV



Band7_20MHz_256QAM_MCH_2535MHz_RB_100_0_NTNV





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4. Peak-Average Ratio

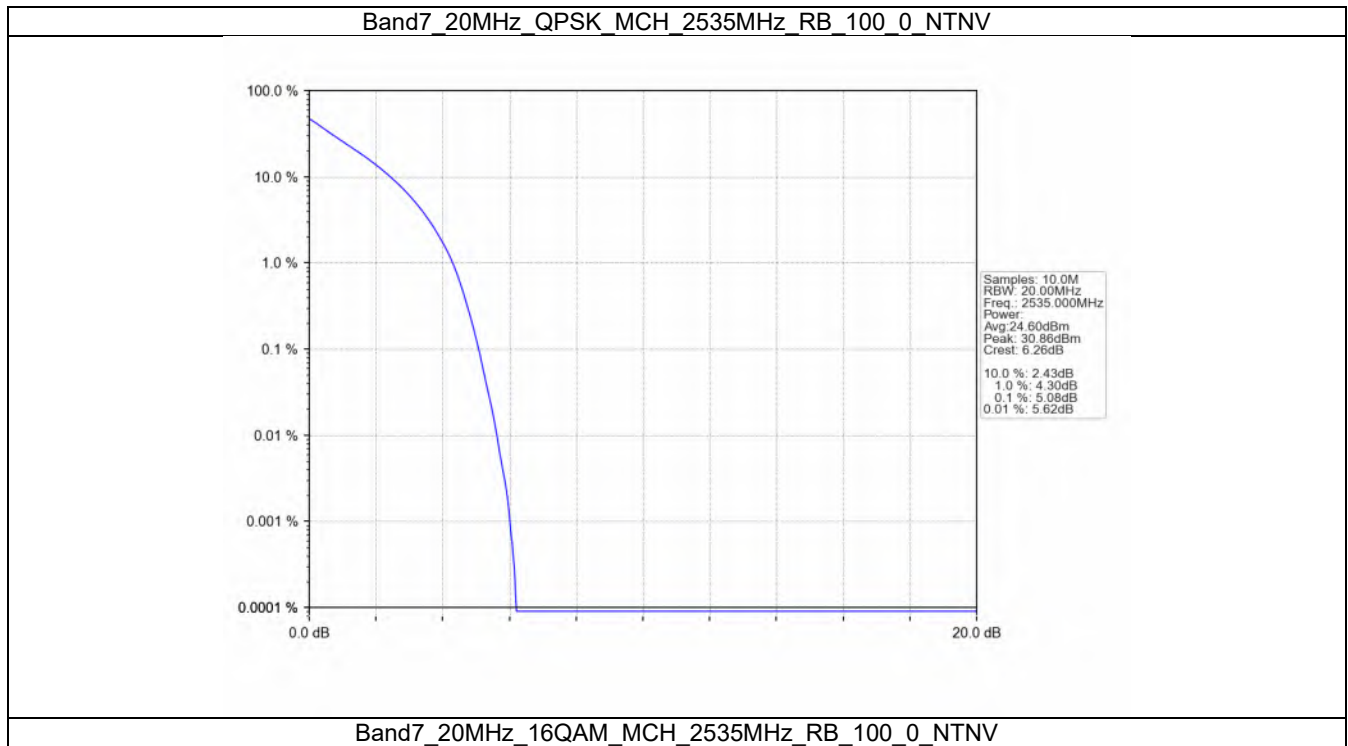
4.1 Test Result

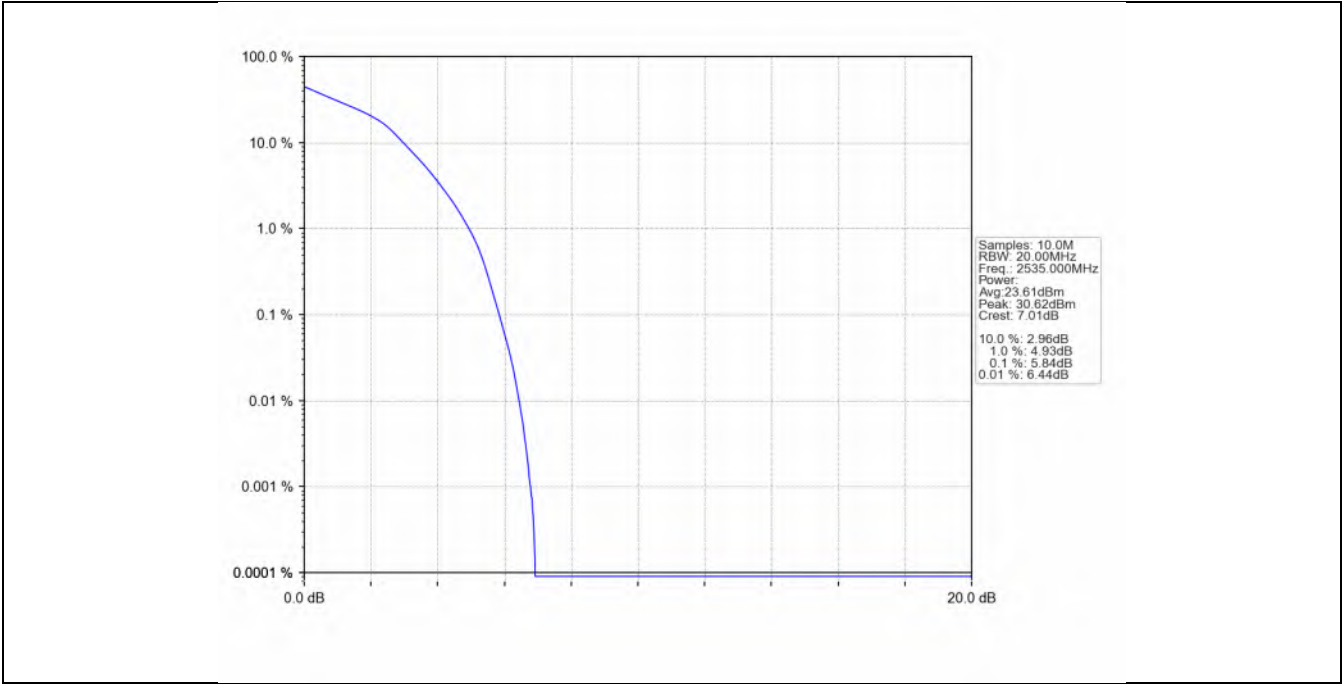
4.1.1 B7_20MHz

Band: 7 / Bandwidth: 20MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2535	100	0	5.08	<=13	Pass
16QAM	2535	100	0	5.84	<=13	Pass
64QAM	2535	100	0	5.85	<=13	Pass
256QAM	2535	100	0	6.71	<=13	Pass

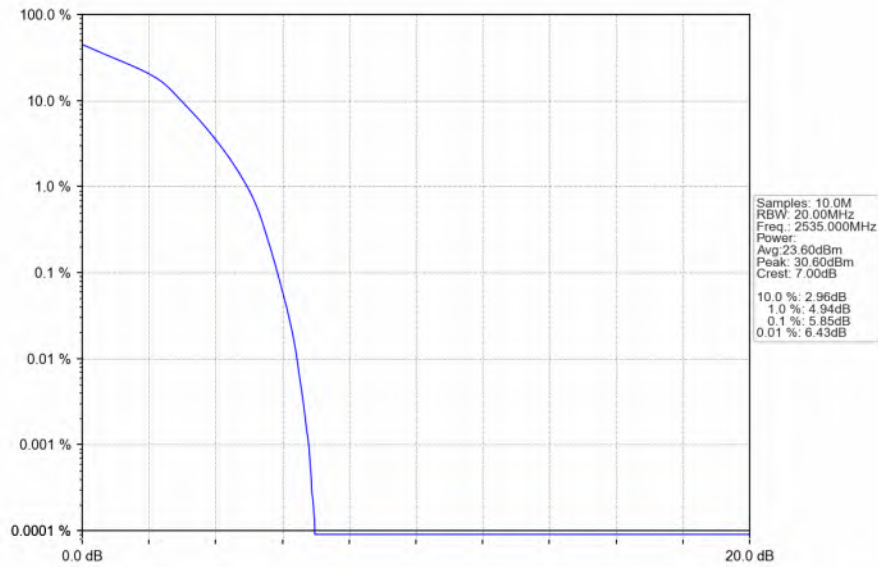
4.2 Test Graph

4.2.1 B7_20MHz

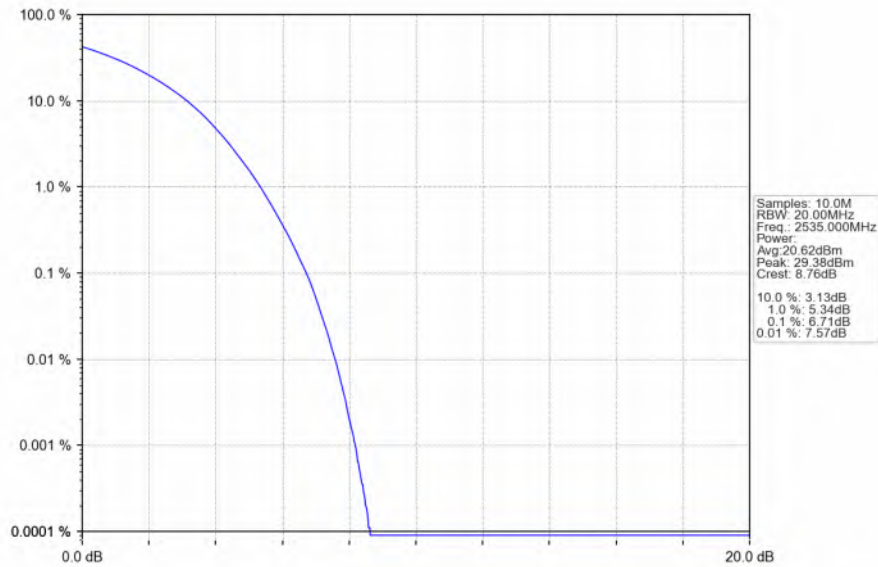




Band7_20MHz_64QAM_MCH_2535MHz_RB_100_0_NTNV



Band7_20MHz_256QAM_MCH_2535MHz_RB_100_0_NTNV



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

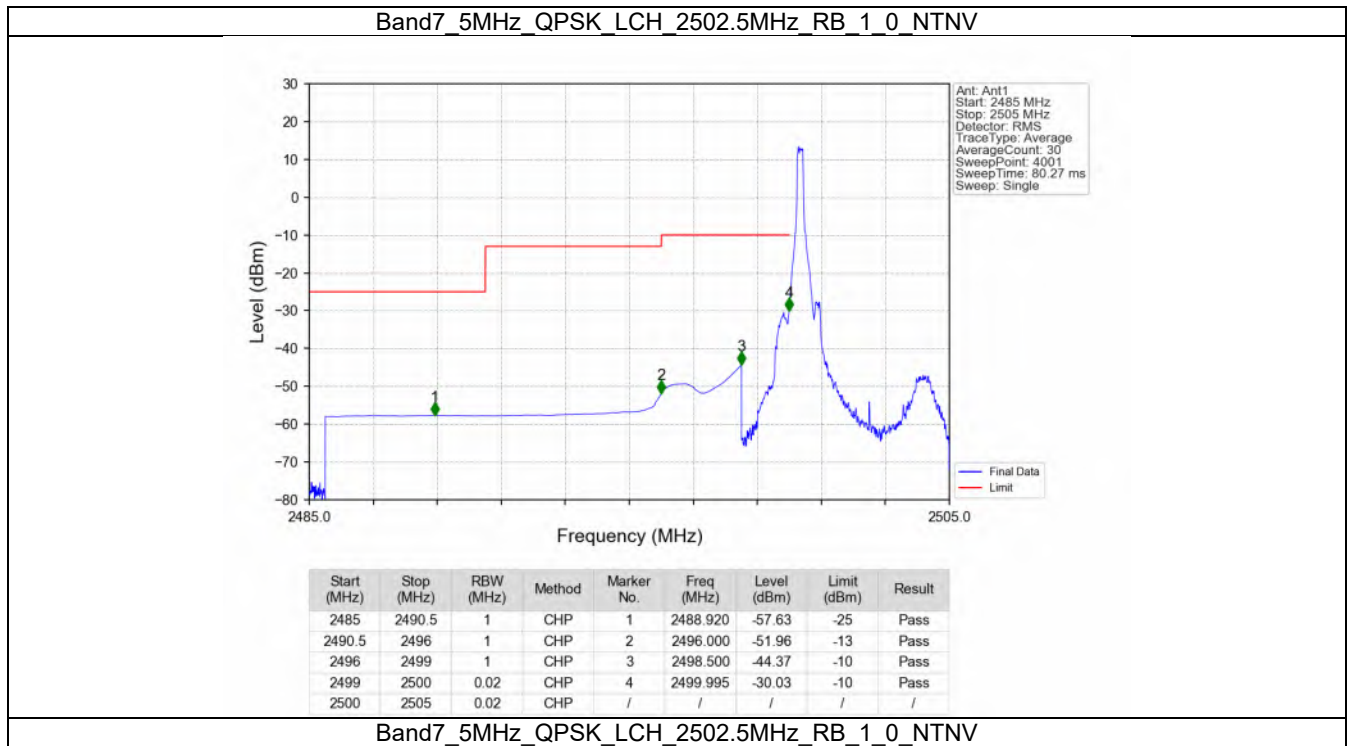
Band: 7 / Bandwidth: 20MHz / NTNV				
Modulation	Frequency	RB Allocation	Spurious Emission	Verdict

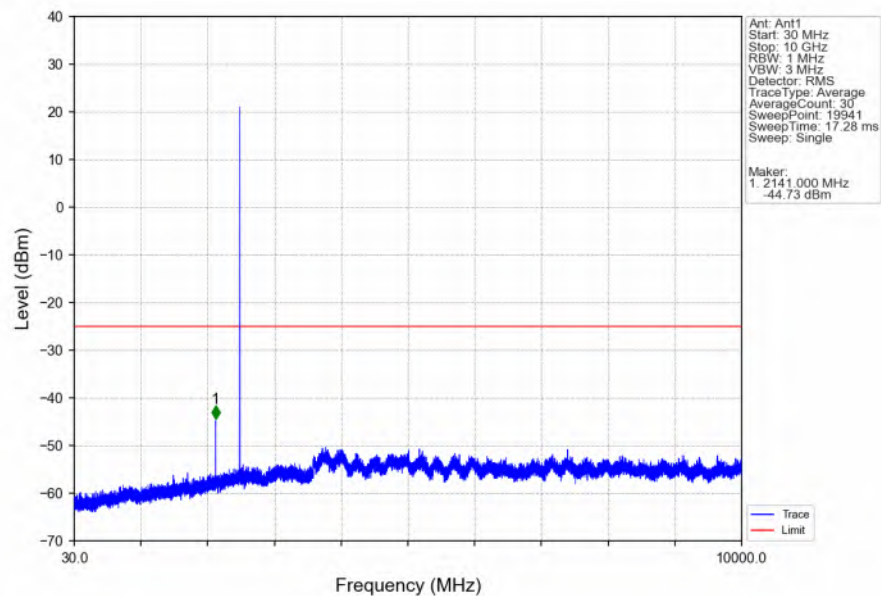


	(MHz)	Size	Offset	Result	Limit	
QPSK	2510	1	0	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
	2535	1	0	Refer To Test Graph		Pass
	2560	1	0	Refer To Test Graph		Pass
			99	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass

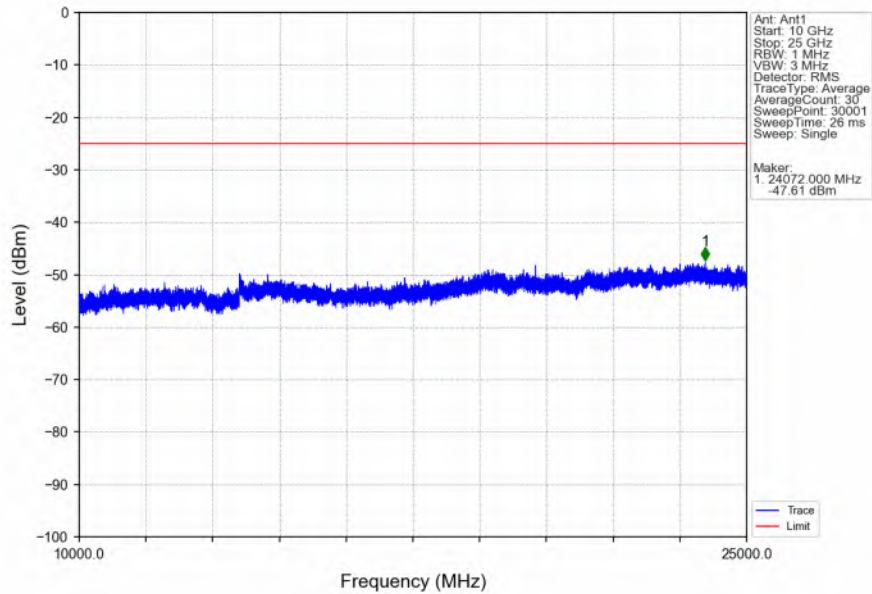
5.2 Test Graph

5.2.1 B7_5MHz

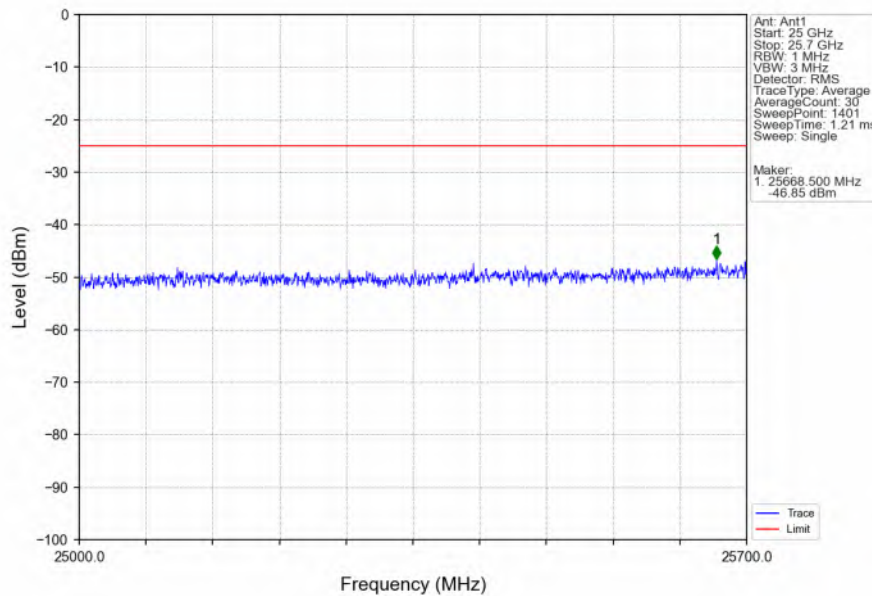




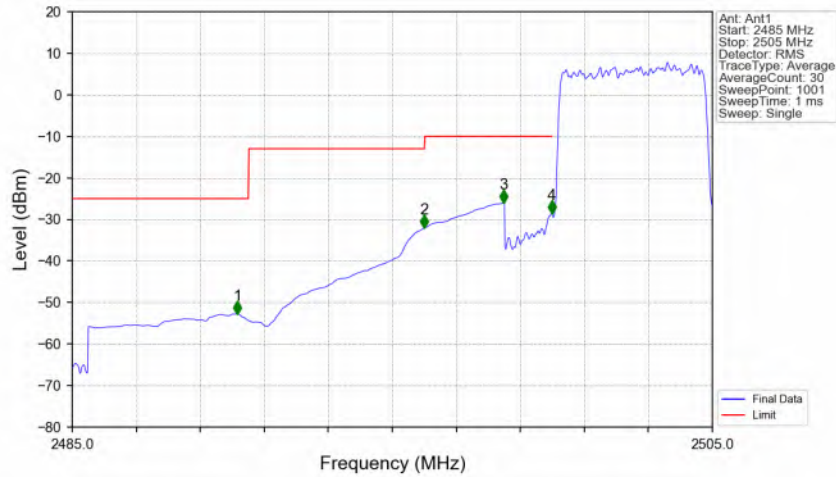
Band7_5MHz_QPSK_LCH_2502.5MHz_RB_1_0_NTNV



Band7_5MHz_QPSK_LCH_2502.5MHz_RB_1_0_NTNV

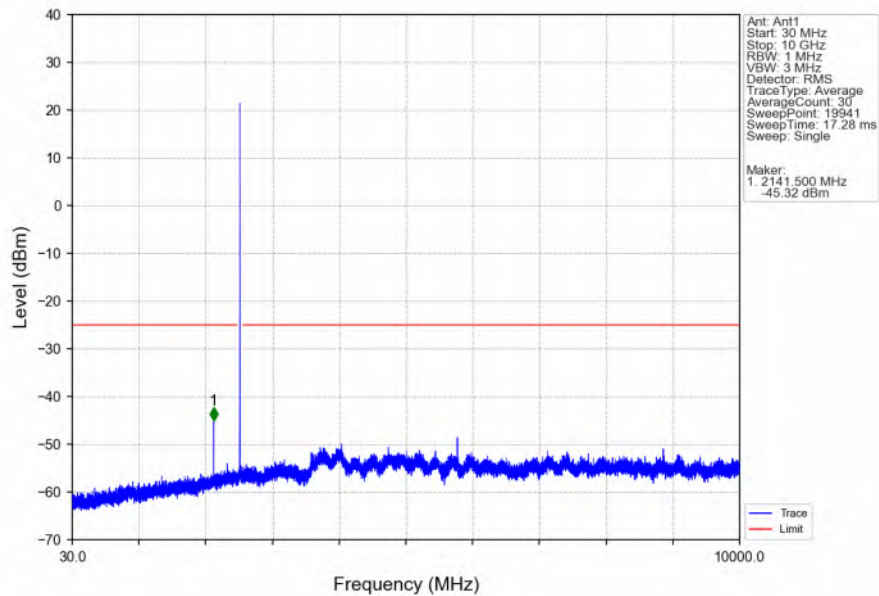


Band7_5MHz_QPSK_LCH_2502.5MHz_RB_25_0_NTNV

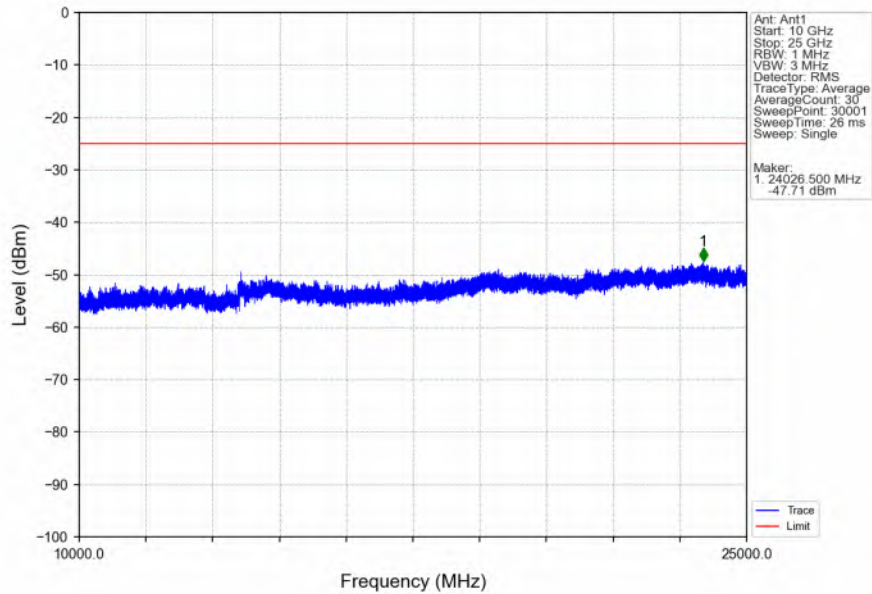


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2490.160	-52.72	-25	Pass
2490.5	2496	1	CHP	2	2496.000	-32.01	-13	Pass
2496	2499	1	CHP	3	2498.480	-26.06	-10	Pass
2499	2500	0.1	/	4	2499.980	-28.54	-10	Pass
2500	2505	0.1	/	/	/	/	/	/

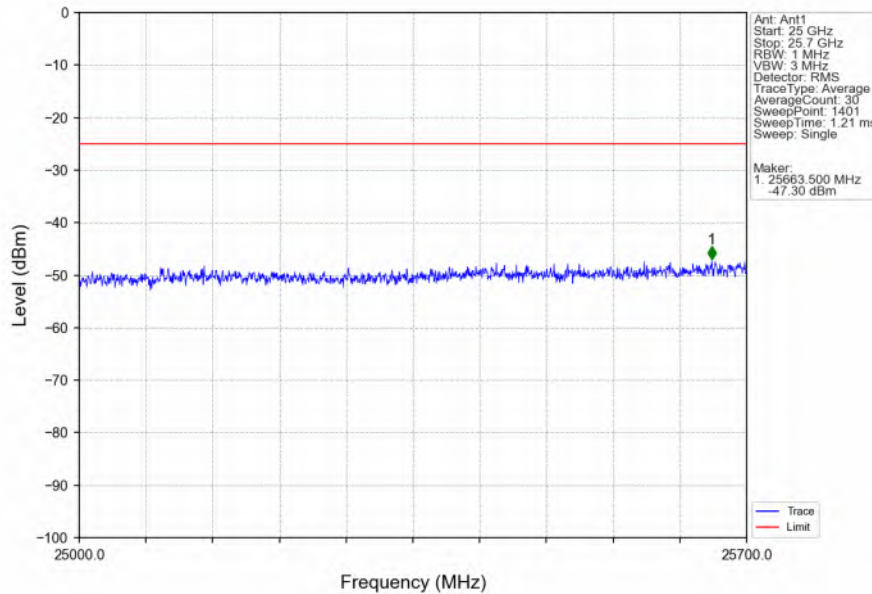
Band7_5MHz_QPSK_MCH_2535MHz_RB_1_0_NTNV



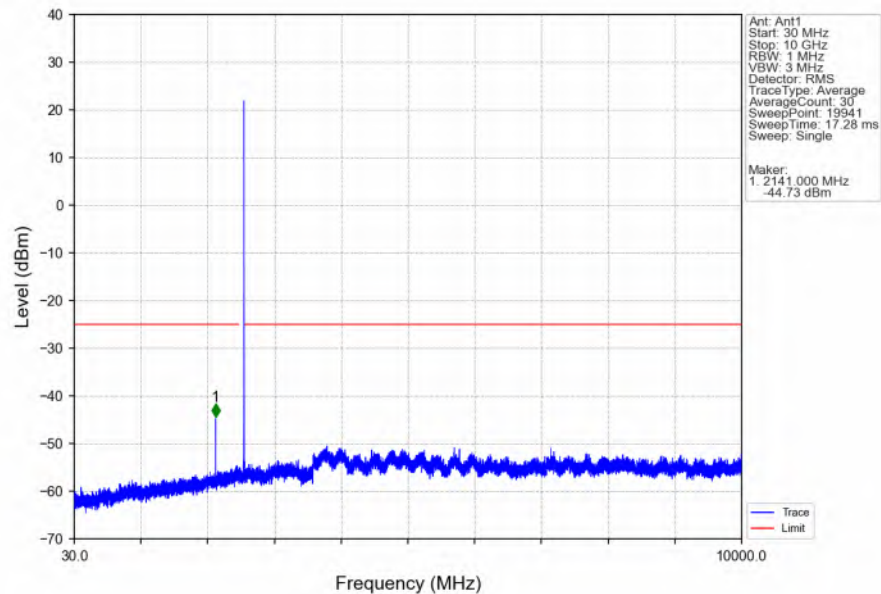
Band7_5MHz_QPSK_MCH_2535MHz_RB_1_0_NTNV



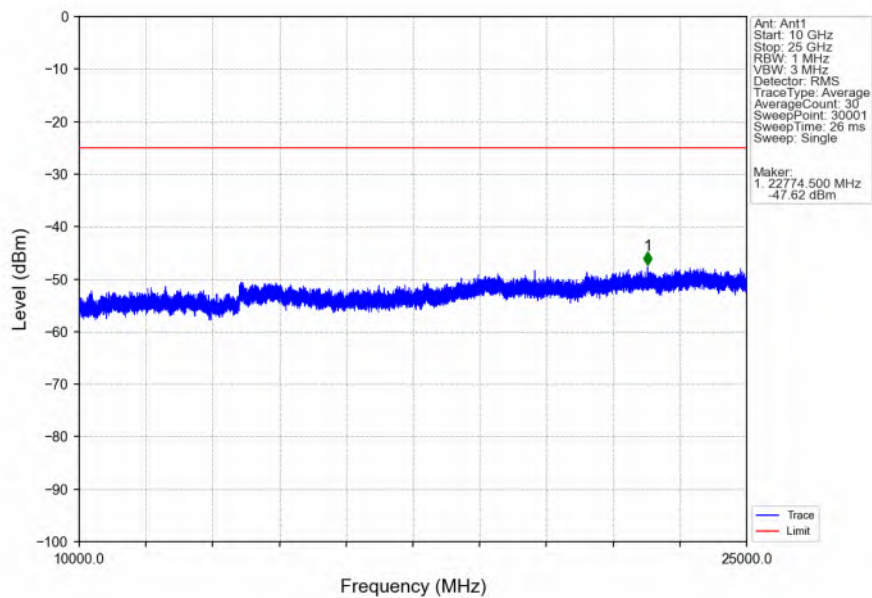
Band7_5MHz_QPSK_MCH_2535MHz_RB_1_0_NTNV



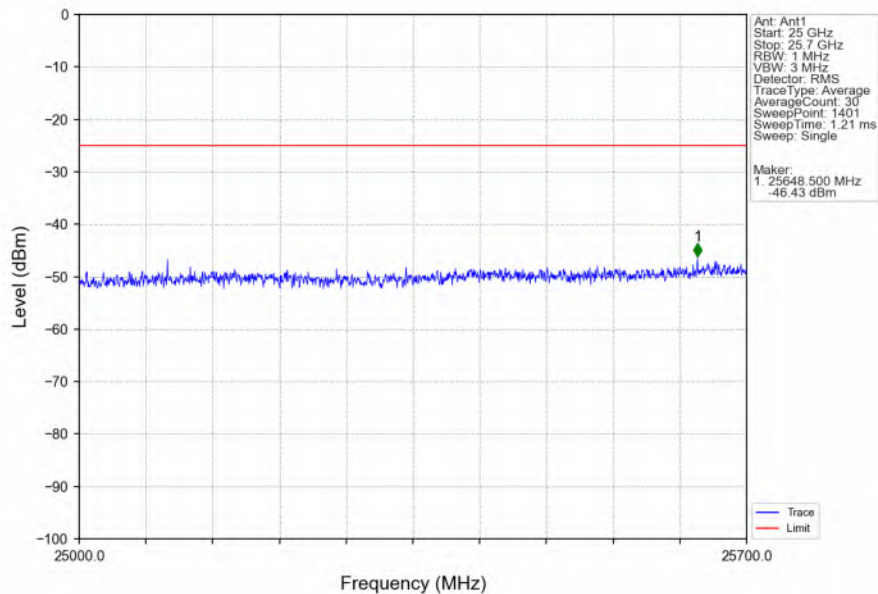
Band7_5MHz_QPSK_HCH_2567.5MHz_RB_1_0_NTNV



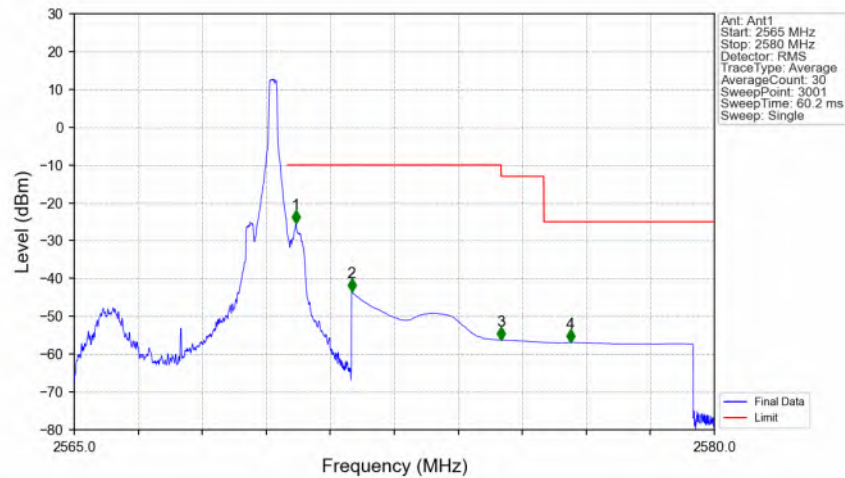
Band7_5MHz_QPSK_HCH_2567.5MHz_RB_1_0_NTNV



Band7_5MHz_QPSK_HCH_2567.5MHz_RB_1_0_NTNV

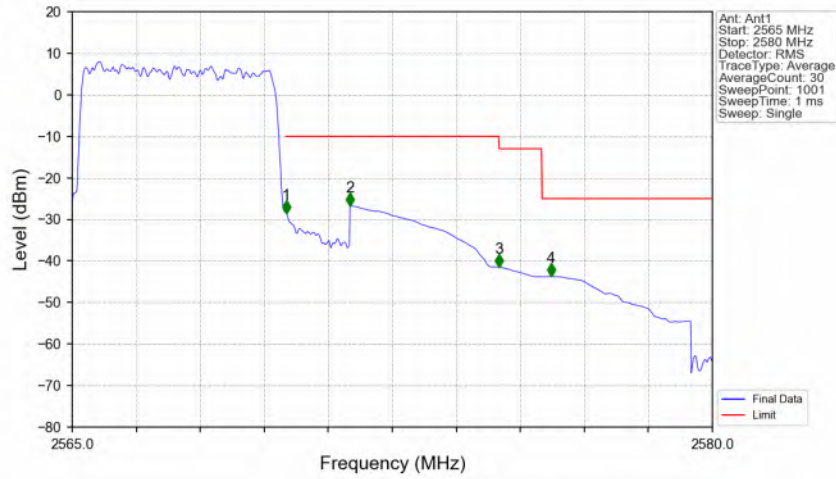


Band7_5MHz_QPSK_HCH_2567.5MHz_RB_1_24_NTNV



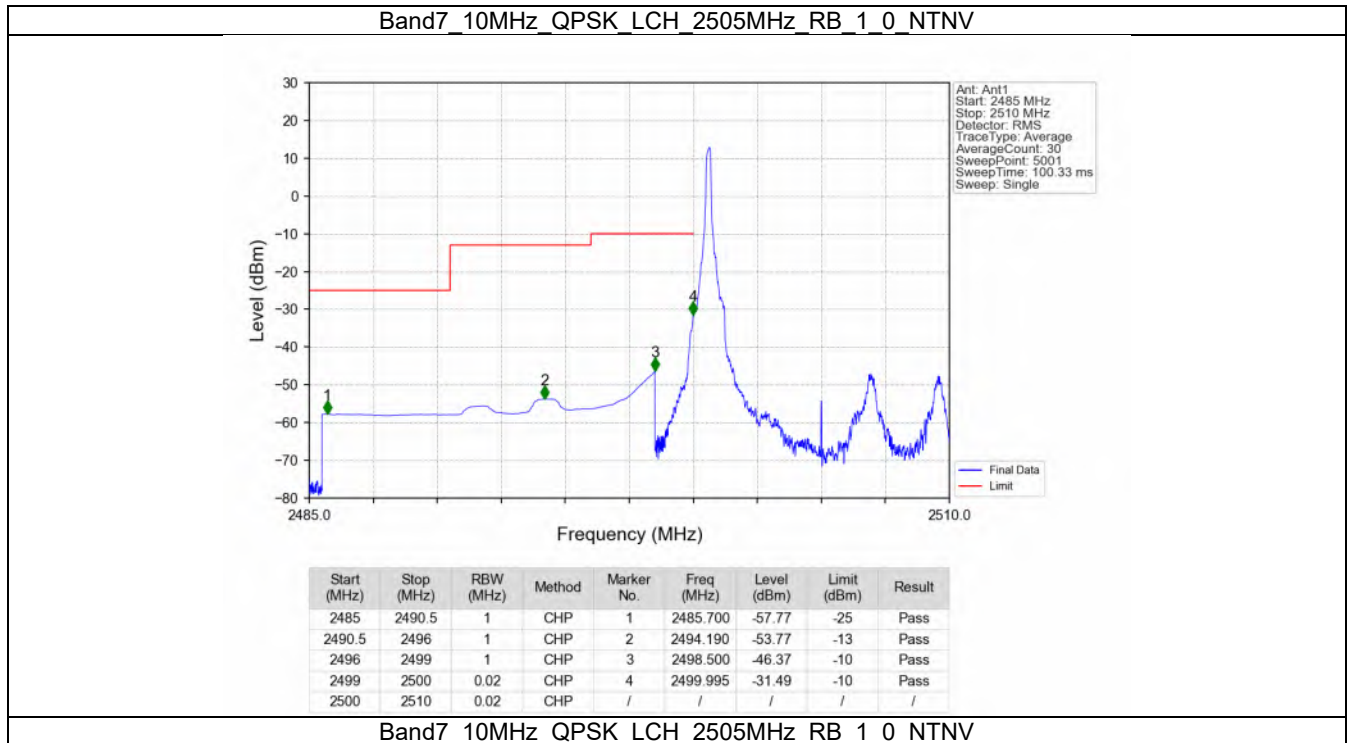
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2565	2570	0.02	CHP	/	/	/	/	/
2570	2571	0.02	CHP	1	2570.195	-25.43	-10	Pass
2571	2575	1	CHP	2	2571.500	-43.56	-10	Pass
2575	2576	1	CHP	3	2575.005	-56.24	-13	Pass
2576	2580	1	CHP	4	2576.625	-56.88	-25	Pass

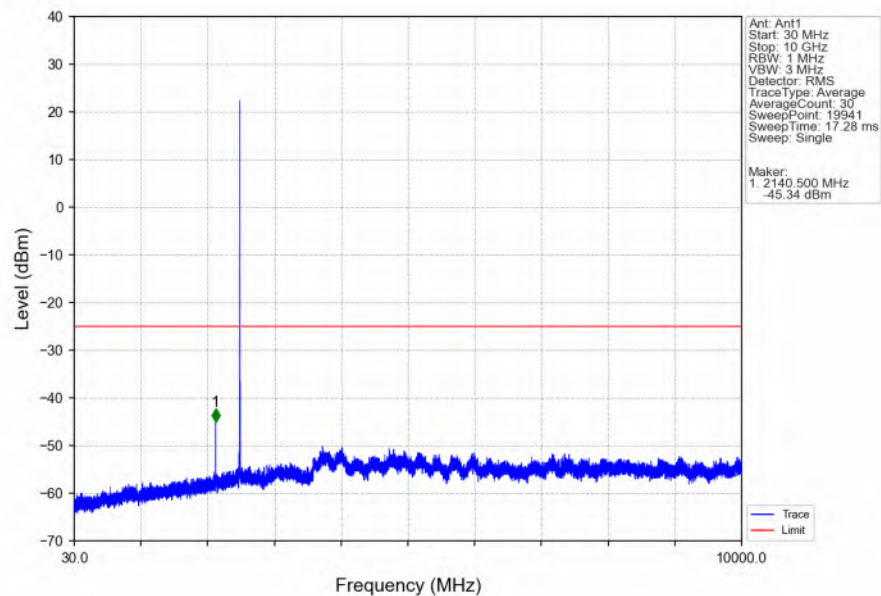
Band7_5MHz_QPSK_HCH_2567.5MHz_RB_25_0_NTNV



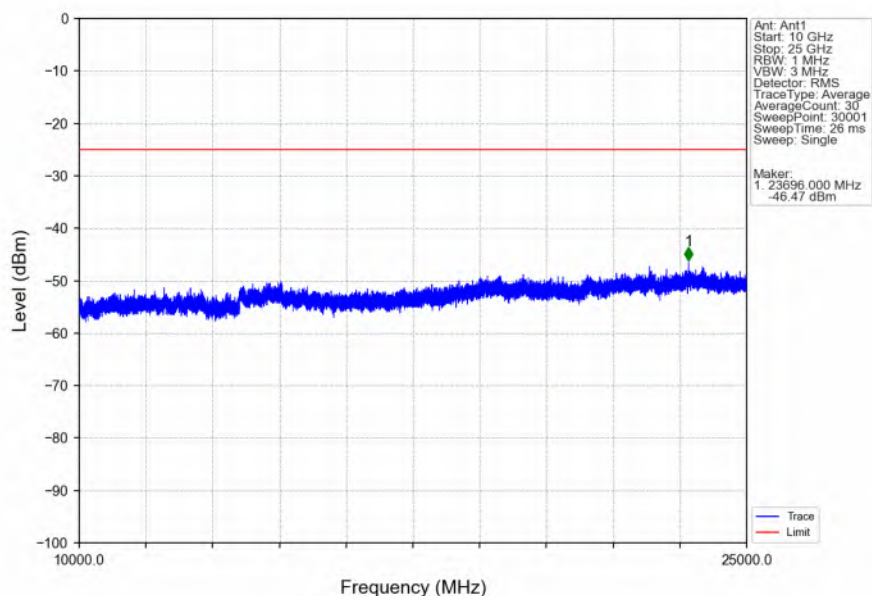
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2565	2570	0.1	/	/	/	/	/	/
2570	2571	0.1	/	1	2570.010	-28.53	-10	Pass
2571	2575	1	CHP	2	2571.510	-26.72	-10	Pass
2575	2576	1	CHP	3	2575.005	-41.46	-13	Pass
2576	2580	1	CHP	4	2576.220	-43.72	-25	Pass

5.2.2 B7_10MHz

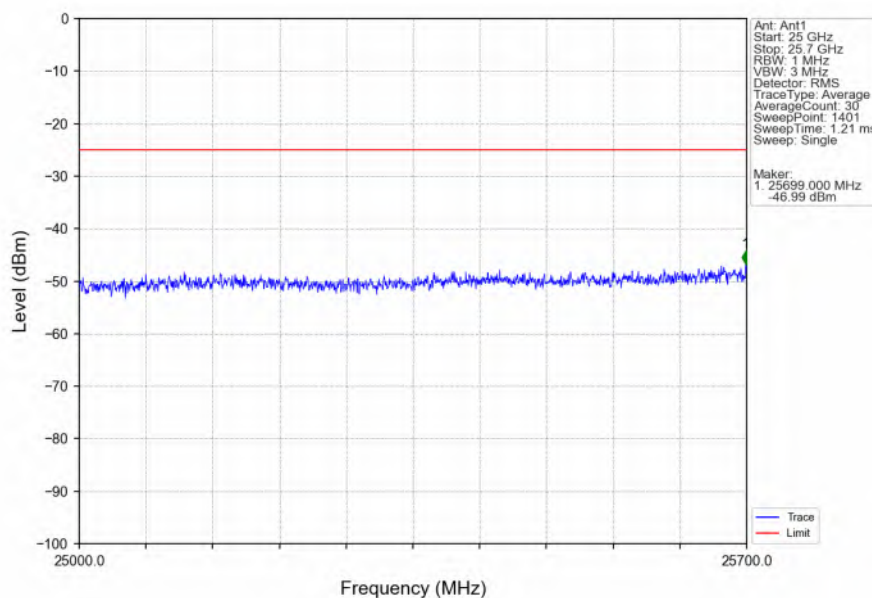




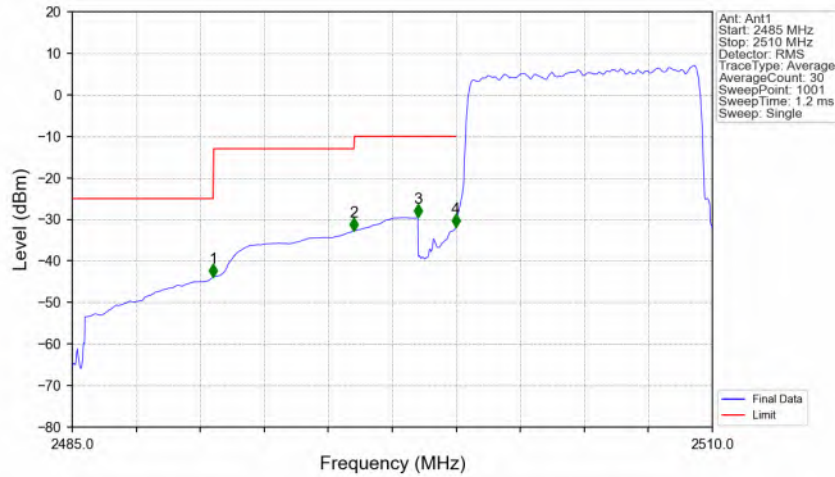
Band7_10MHz_QPSK_LCH_2505MHz_RB_1_0_NTNV



Band7_10MHz_QPSK_LCH_2505MHz_RB_1_0_NTNV

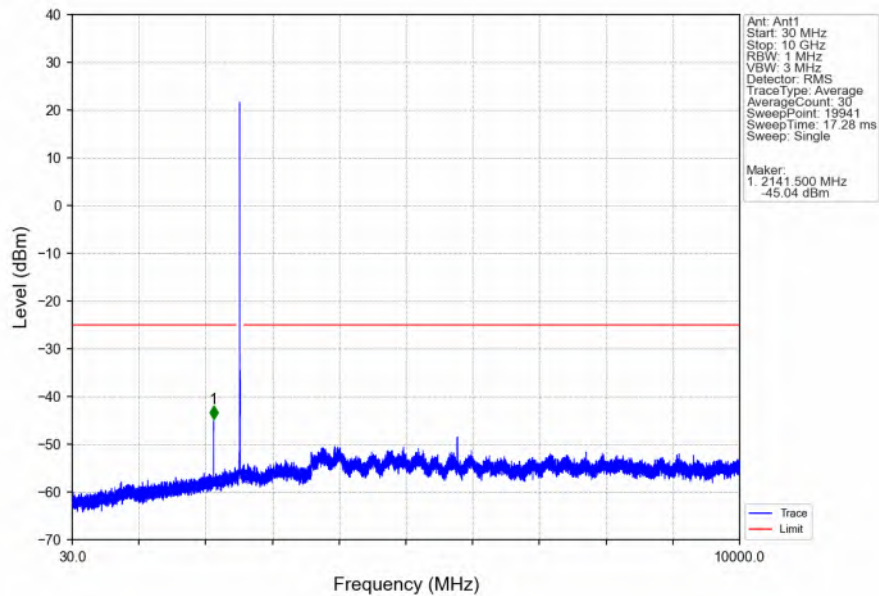


Band7_10MHz_QPSK_LCH_2505MHz_RB_50_0_NTNV

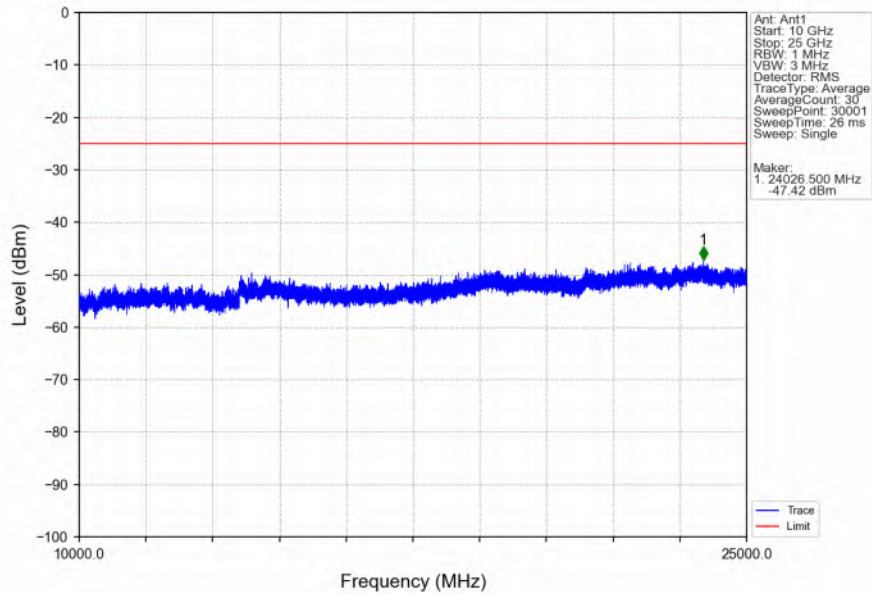


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2490.500	-43.92	-25	Pass
2490.5	2496	1	CHP	2	2496.000	-32.76	-13	Pass
2496	2499	1	CHP	3	2498.500	-29.52	-10	Pass
2499	2500	0.194	CHP	4	2499.975	-31.91	-10	Pass
2500	2510	0.194	CHP	/	/	/	/	/

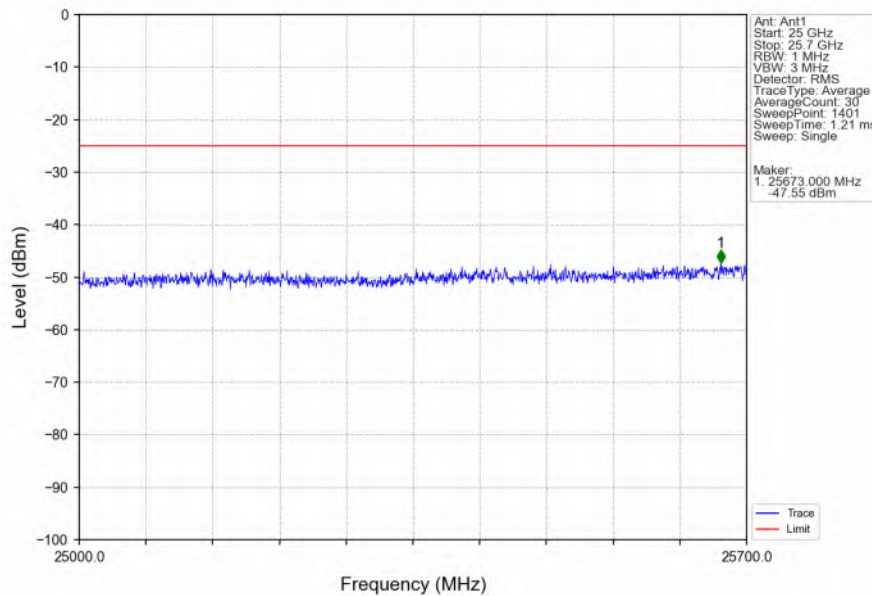
Band7_10MHz_QPSK_MCH_2535MHz_RB_1_0_NTNV



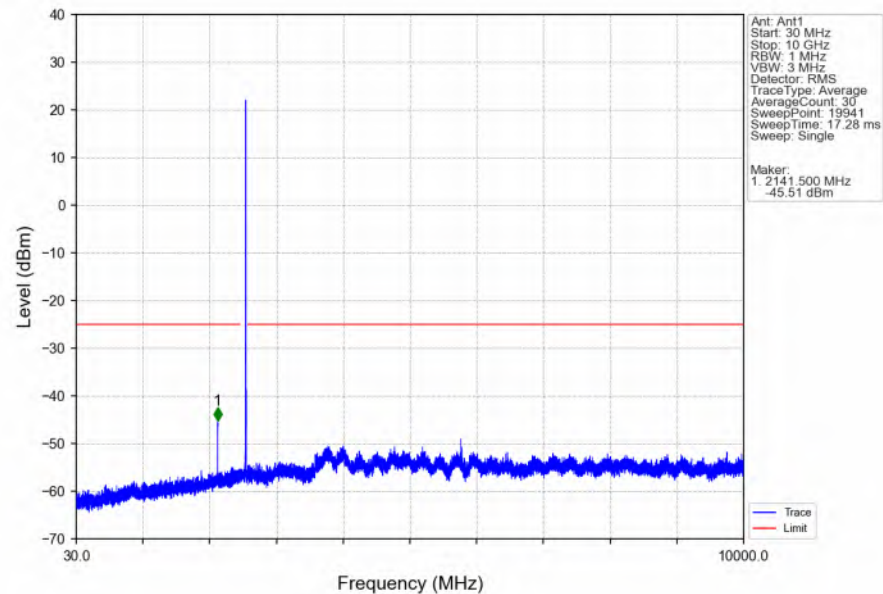
Band7_10MHz_QPSK_MCH_2535MHz_RB_1_0_NTNV



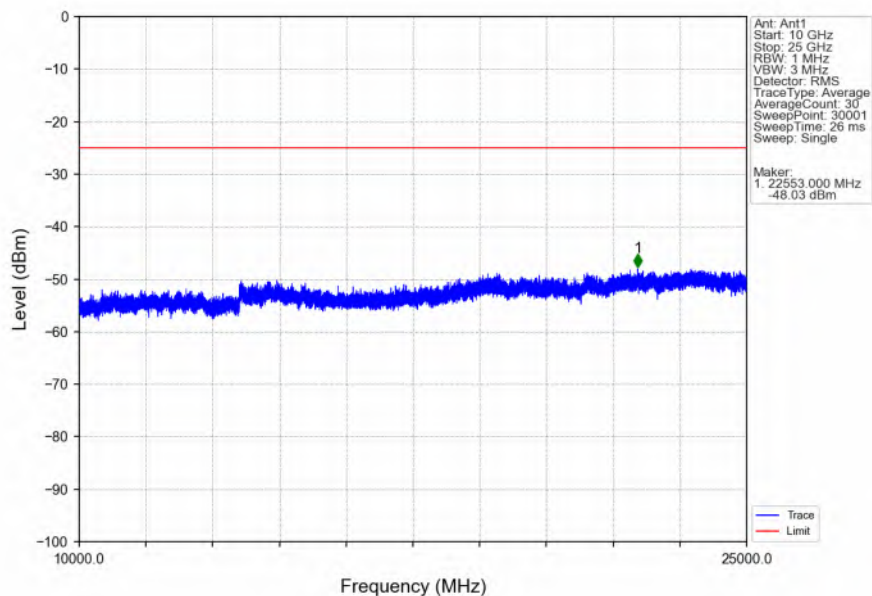
Band7_10MHz_QPSK_MCH_2535MHz_RB_1_0_NTNV



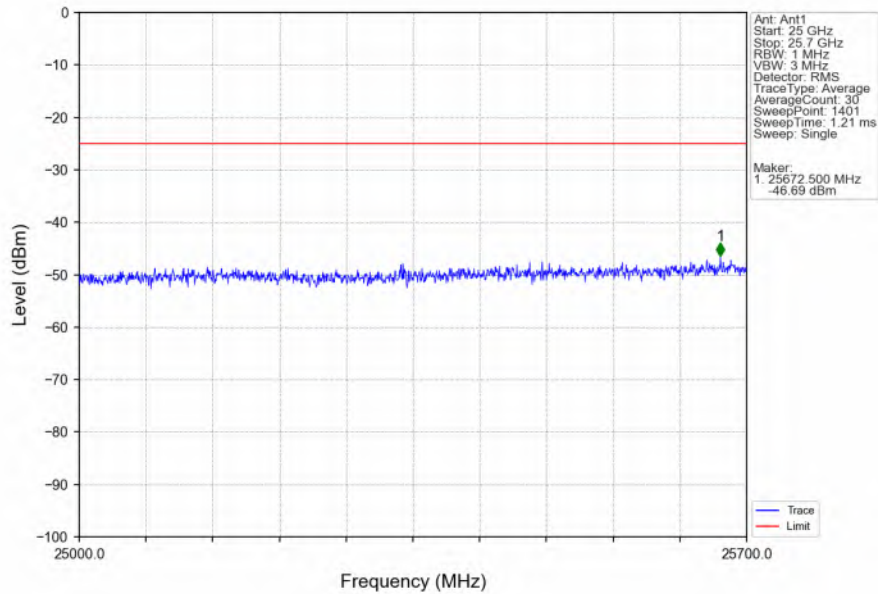
Band7_10MHz_QPSK_HCH_2565MHz_RB_1_0_NTNV



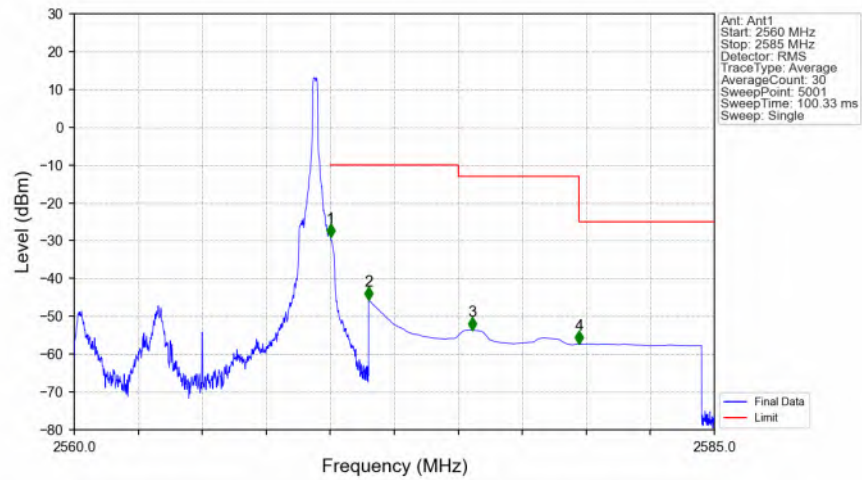
Band7_10MHz_QPSK_HCH_2565MHz_RB_1_0_NTNV



Band7_10MHz_QPSK_HCH_2565MHz_RB_1_0_NTNV

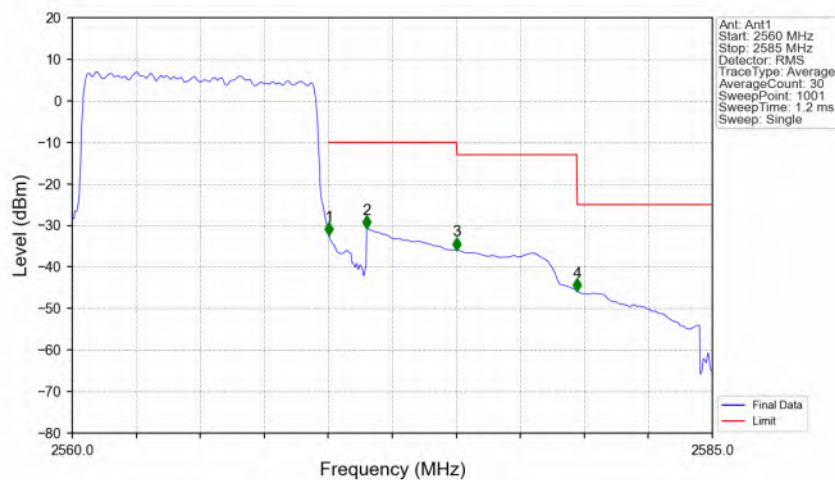


Band7_10MHz_QPSK_HCH_2565MHz_RB_1_49_NTNV



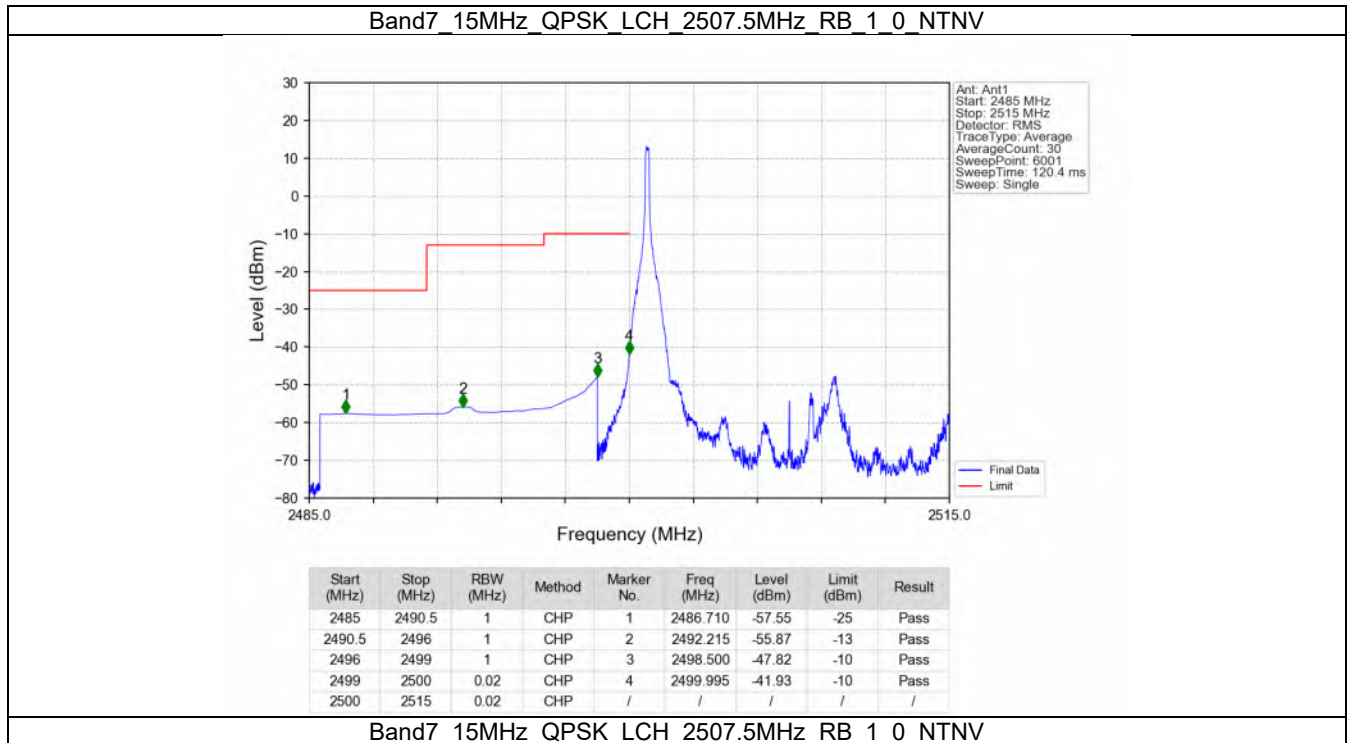
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2560	2570	0.02	CHP	/	/	/	/	/
2570	2571	0.02	CHP	1	2570.005	-28.97	-10	Pass
2571	2575	1	CHP	2	2571.500	-45.61	-10	Pass
2575	2579.713	1	CHP	3	2575.530	-53.61	-13	Pass
2579.713	2585	1	CHP	4	2579.715	-57.38	-25	Pass

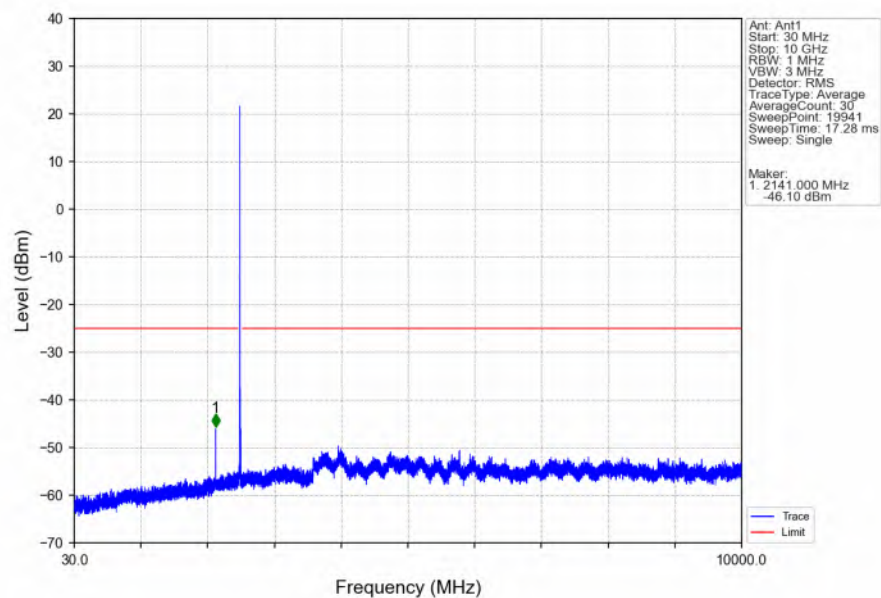
Band7_10MHz_QPSK_HCH_2565MHz_RB_50_0_NTNV



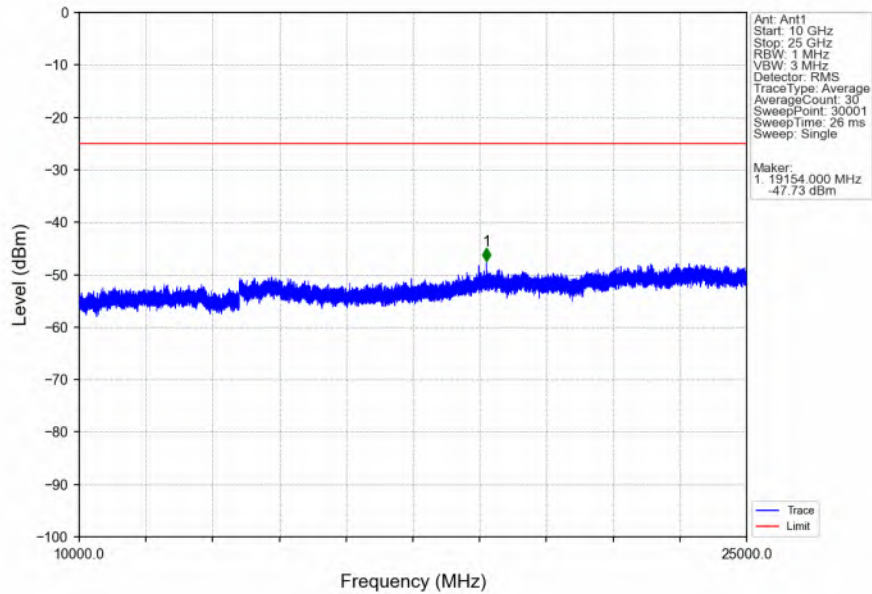
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2560	2570	0.194	CHP	/	/	/	/	/
2570	2571	0.194	CHP	1	2570.025	-32.49	-10	Pass
2571	2575	1	CHP	2	2571.500	-30.68	-10	Pass
2575	2579.713	1	CHP	3	2575.025	-35.96	-13	Pass
2579.713	2585	1	CHP	4	2579.725	-45.96	-25	Pass

5.2.3 B7_15MHz

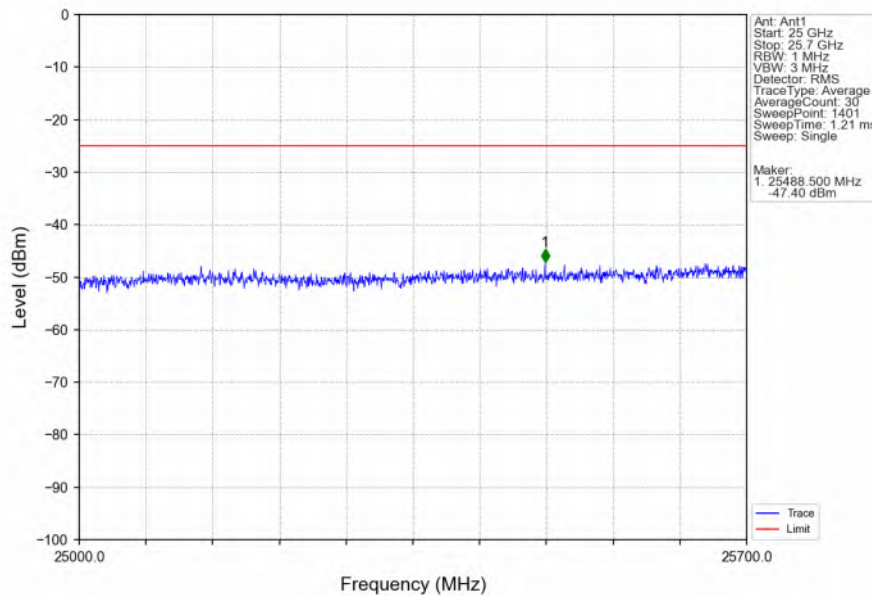




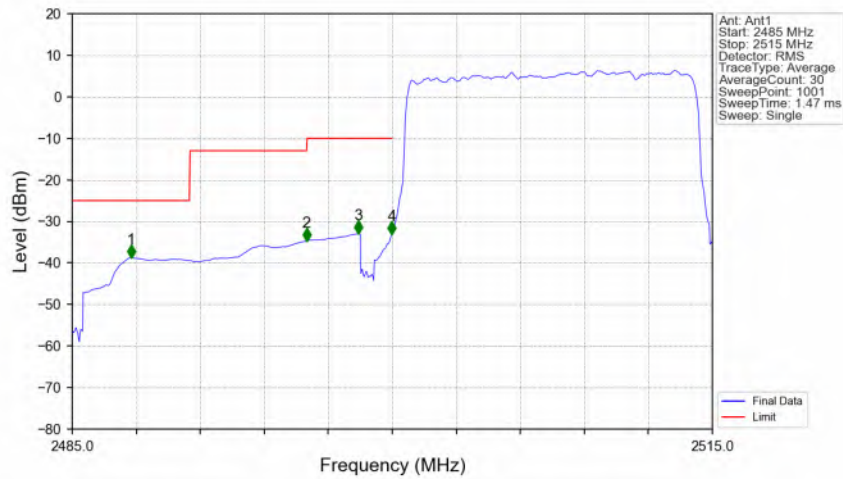
Band7_15MHz_QPSK_LCH_2507.5MHz_RB_1_0_NTNV



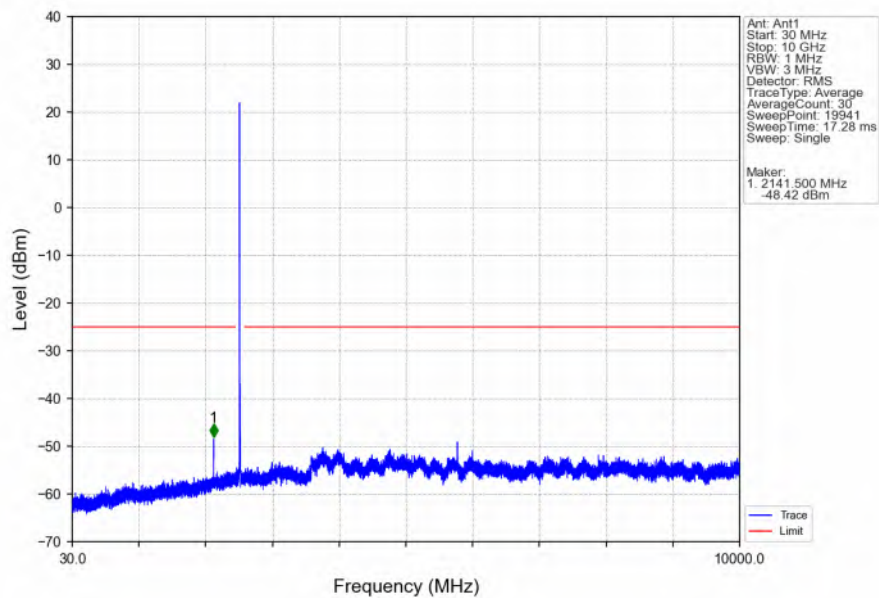
Band7_15MHz_QPSK_LCH_2507.5MHz_RB_1_0_NTNV



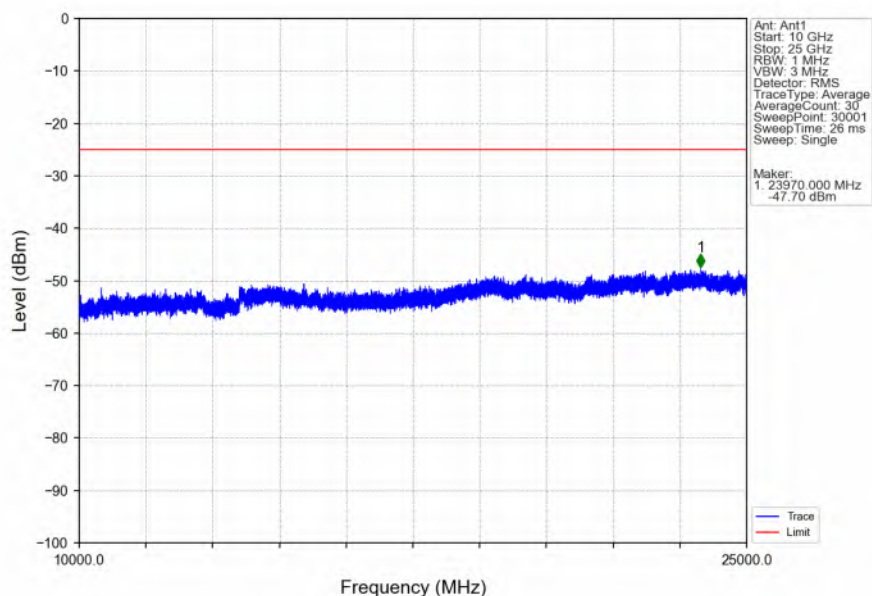
Band7_15MHz_QPSK_LCH_2507.5MHz_RB_75_0_NTNV



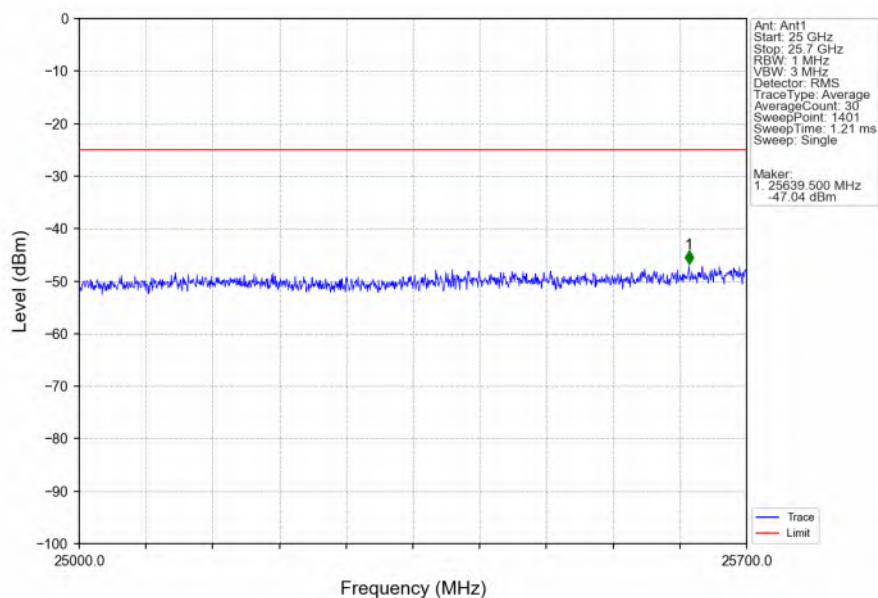
Band7_15MHz_QPSK_MCH_2535MHz_RB_1_0_NTNV



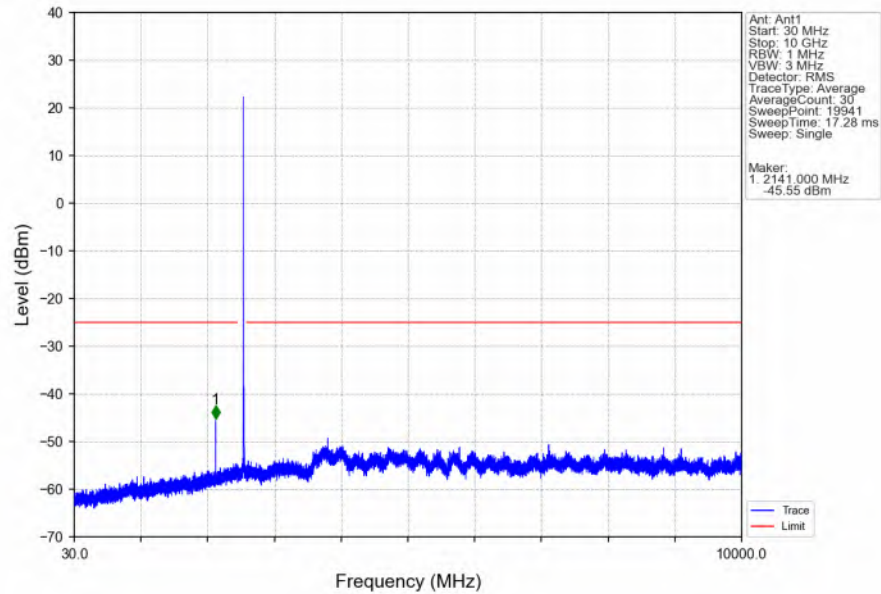
Band7_15MHz_QPSK_MCH_2535MHz_RB_1_0_NTNV



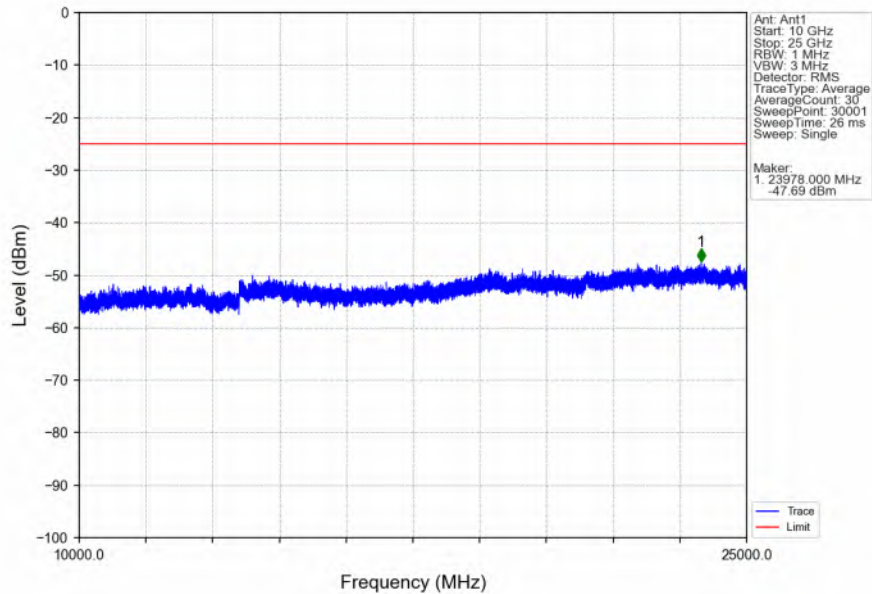
Band7_15MHz_QPSK_MCH_2535MHz_RB_1_0_NTNV



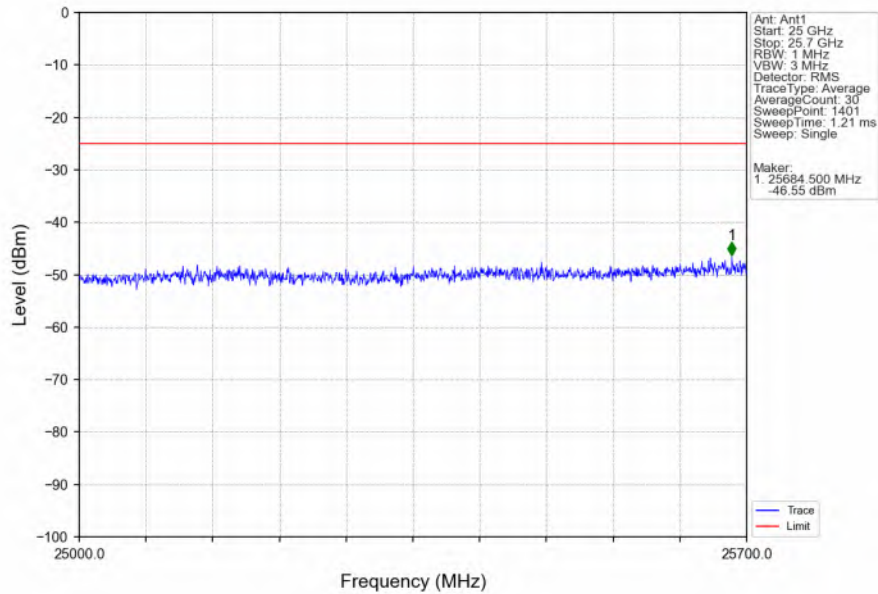
Band7_15MHz_QPSK_HCH_2562.5MHz_RB_1_0_NTNV



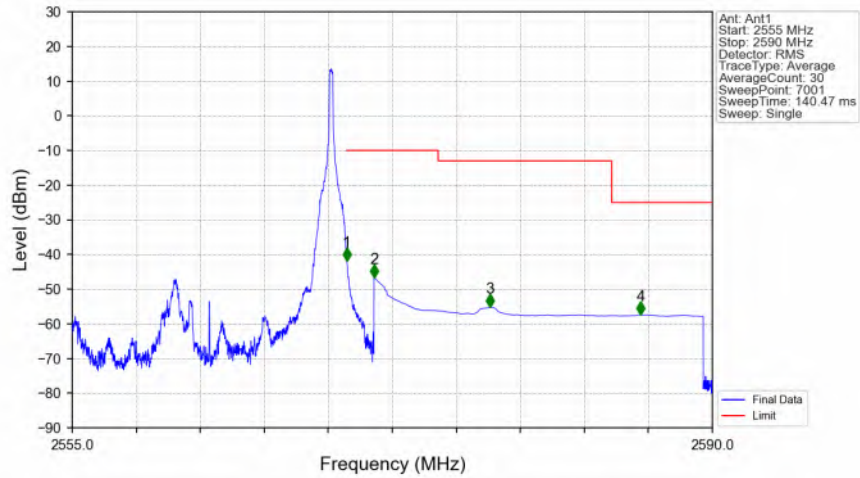
Band7_15MHz_QPSK_HCH_2562.5MHz_RB_1_0_NTNV



Band7_15MHz_QPSK_HCH_2562.5MHz_RB_1_0_NTNV

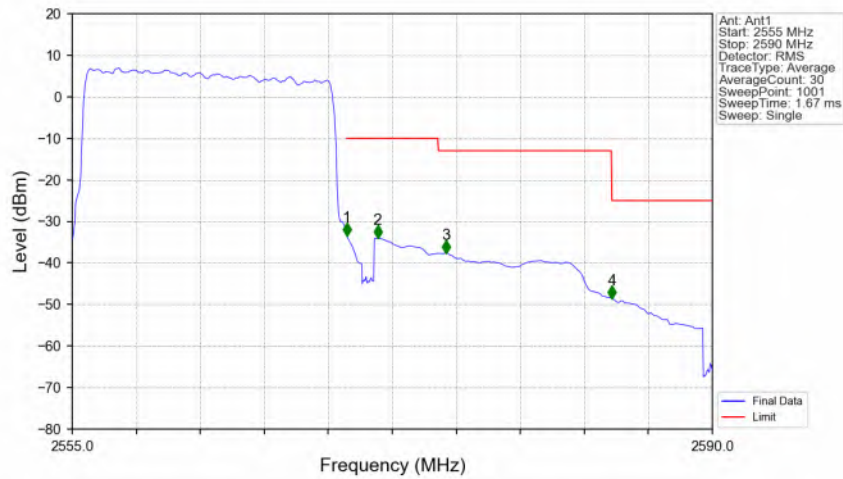


Band7_15MHz_QPSK_HCH_2562.5MHz_RB_1_74_NTNV



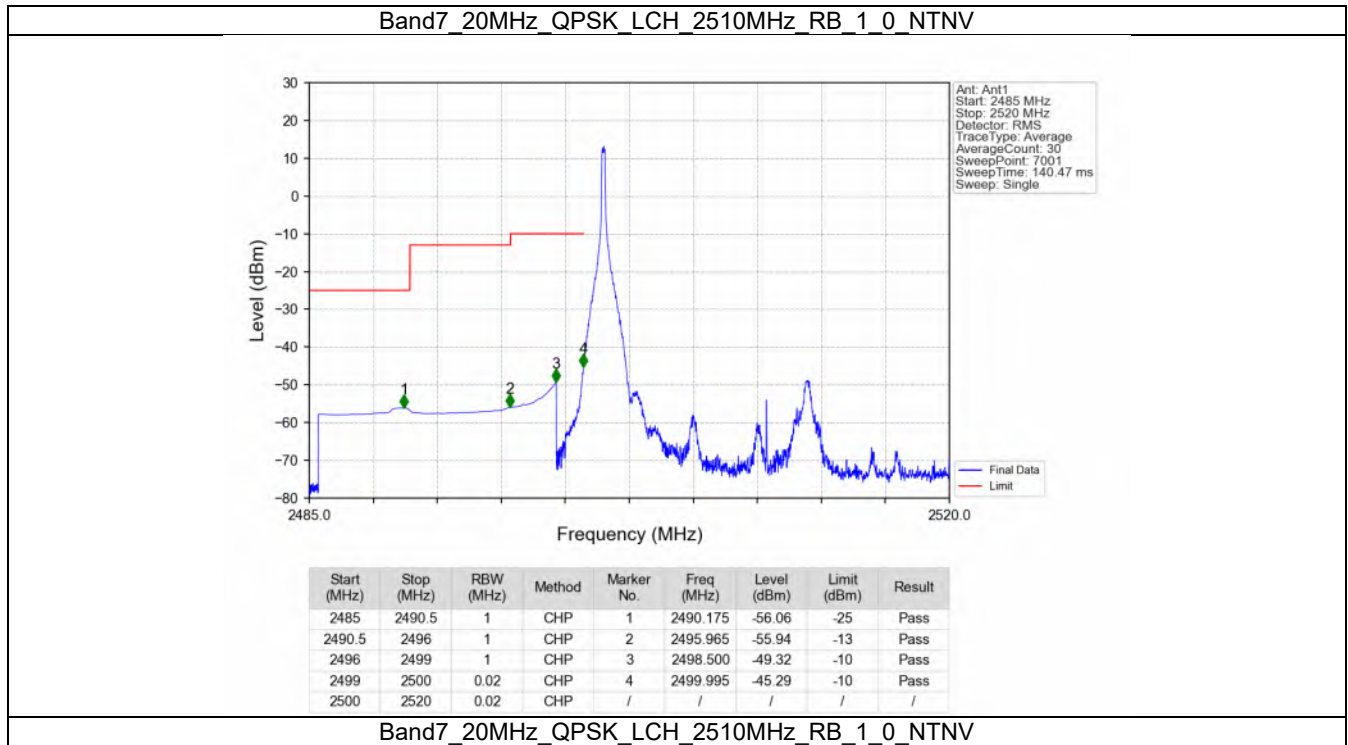
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2555	2570	0.02	CHP	/	/	/	/	/
2570	2571	0.02	CHP	1	2570.005	-41.86	-10	Pass
2571	2575	1	CHP	2	2571.500	-46.63	-10	Pass
2575	2584.489	1	CHP	3	2577.850	-55.28	-13	Pass
2584.489	2590	1	CHP	4	2586.080	-57.45	-25	Pass

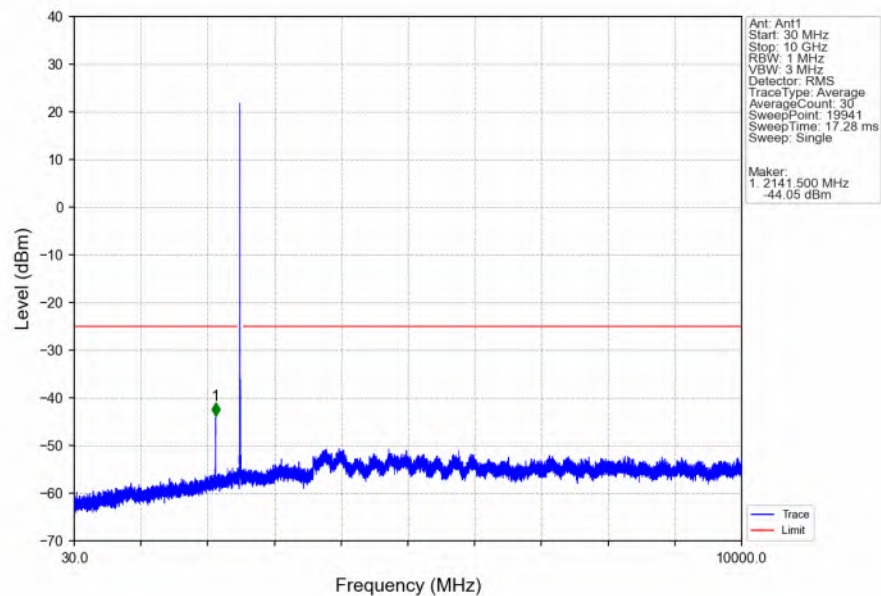
Band7_15MHz_QPSK_HCH_2562.5MHz_RB_75_0_NTNV



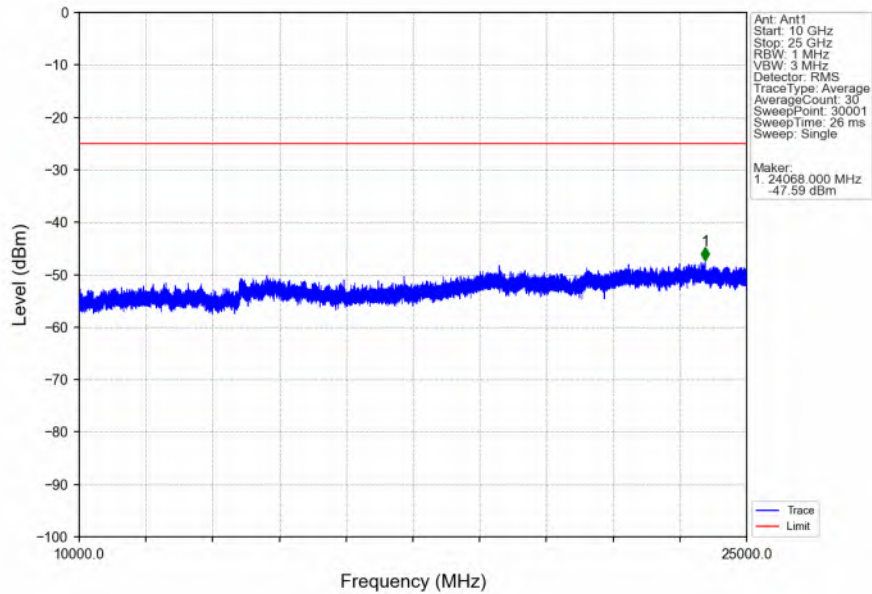
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2555	2570	0.29	CHP	/	/	/	/	/
2570	2571	0.29	CHP	1	2570.015	-33.44	-10	Pass
2571	2575	1	CHP	2	2571.695	-34.08	-10	Pass
2575	2584.489	1	CHP	3	2575.440	-37.64	-13	Pass
2584.489	2590	1	CHP	4	2584.505	-48.62	-25	Pass

5.2.4 B7_20MHz

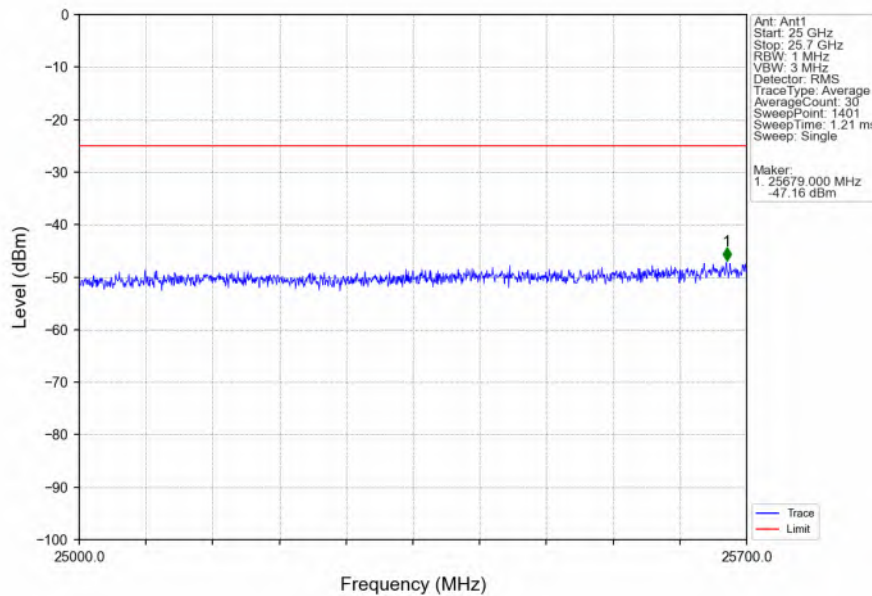




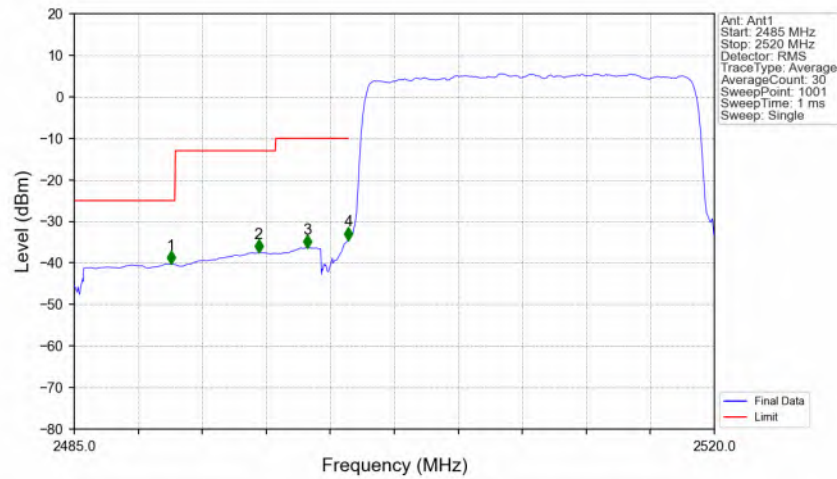
Band7_20MHz_QPSK_LCH_2510MHz_RB_1_0_NTNV



Band7_20MHz_QPSK_LCH_2510MHz_RB_1_0_NTNV

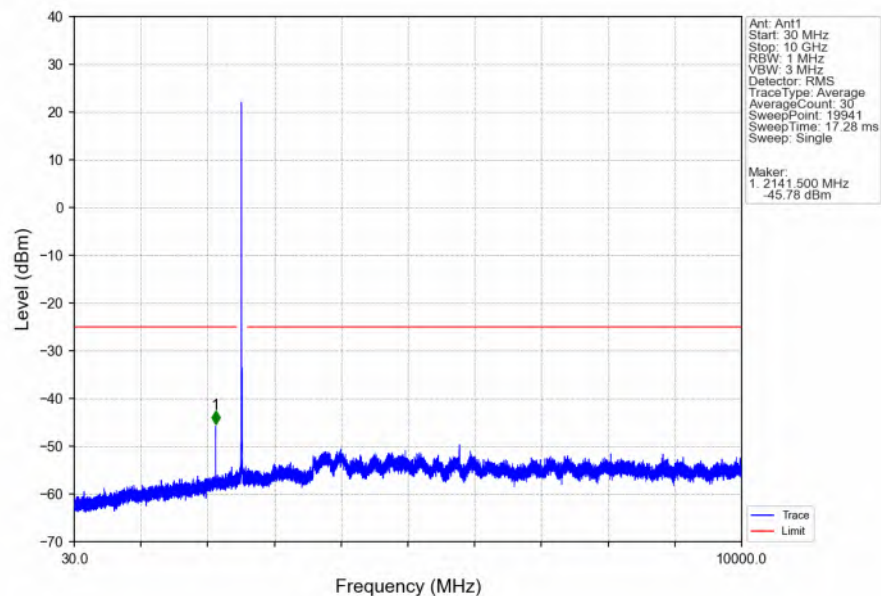


Band7_20MHz_QPSK_LCH_2510MHz_RB_100_0_NTNV

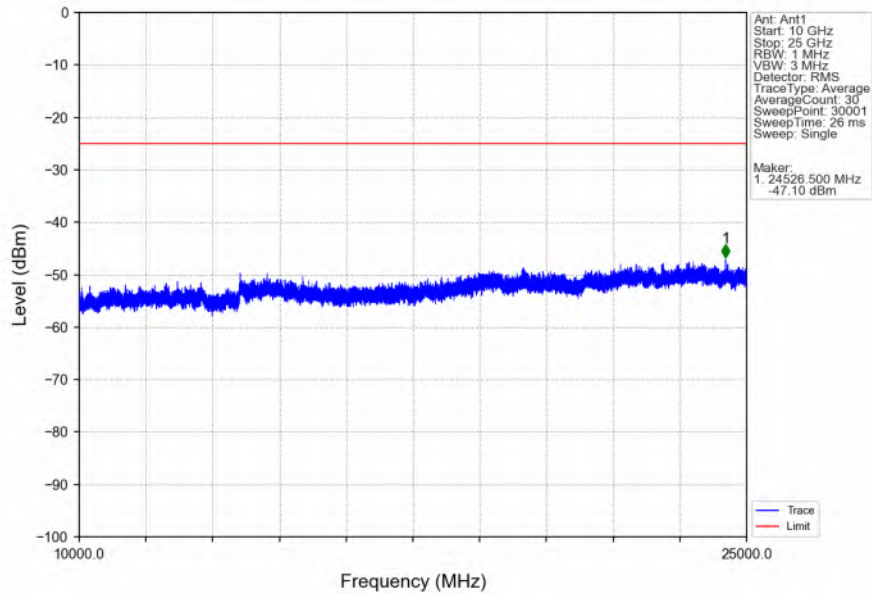


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2490.285	-40.32	-25	Pass
2490.5	2496	1	CHP	2	2495.080	-37.52	-13	Pass
2496	2499	1	CHP	3	2497.740	-36.33	-10	Pass
2499	2500	0.381	CHP	4	2499.980	-34.50	-10	Pass
2500	2520	0.381	CHP	/	/	/	/	/

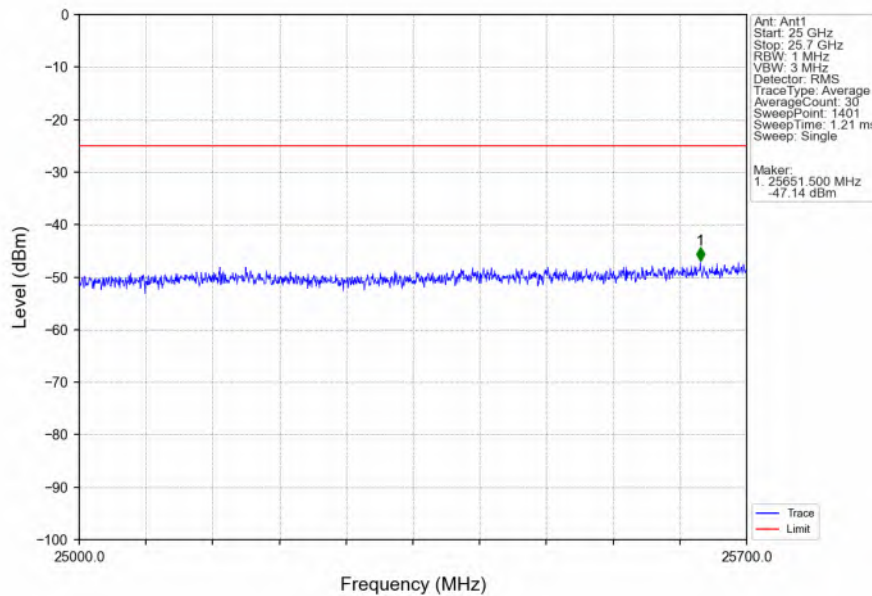
Band7_20MHz_QPSK_MCH_2535MHz_RB_1_0_NTNV



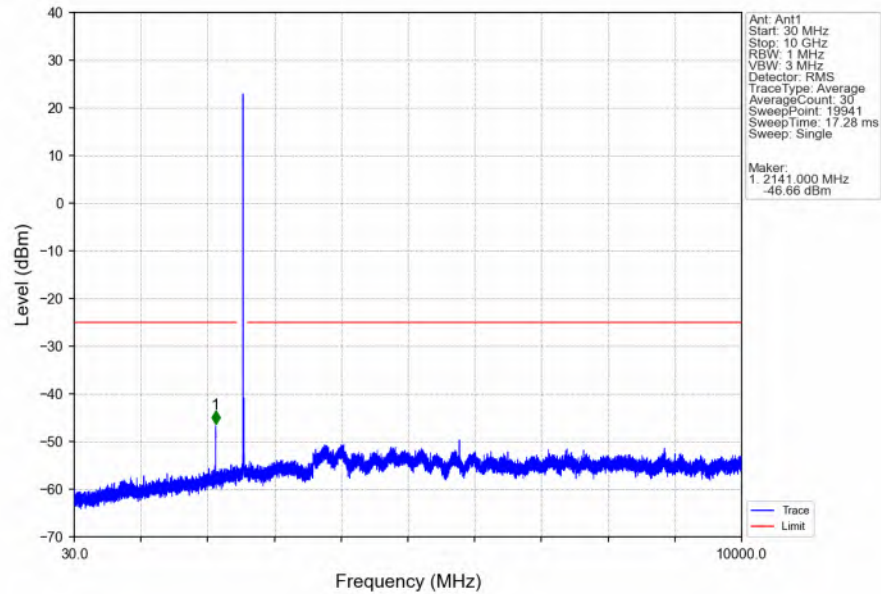
Band7_20MHz_QPSK_MCH_2535MHz_RB_1_0_NTNV



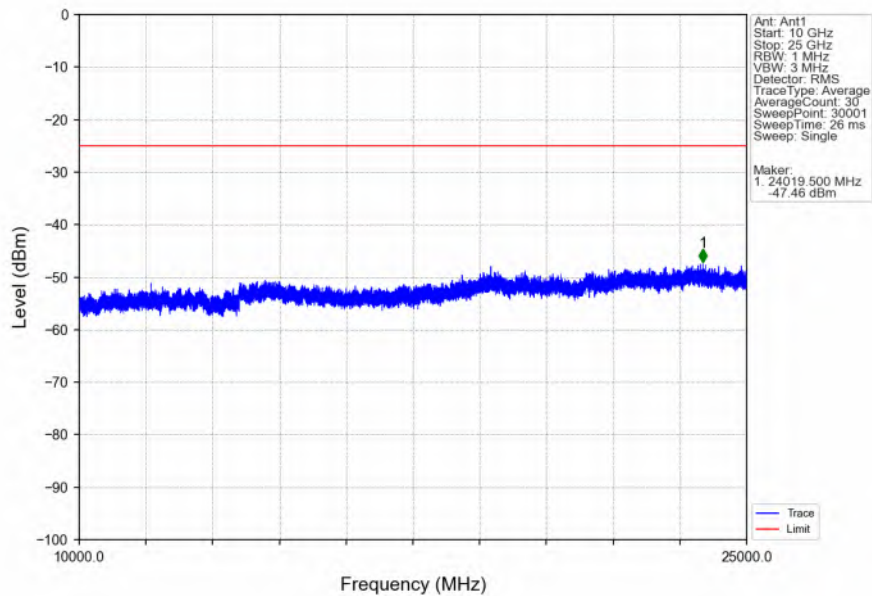
Band7_20MHz_QPSK_MCH_2535MHz_RB_1_0_NTNV



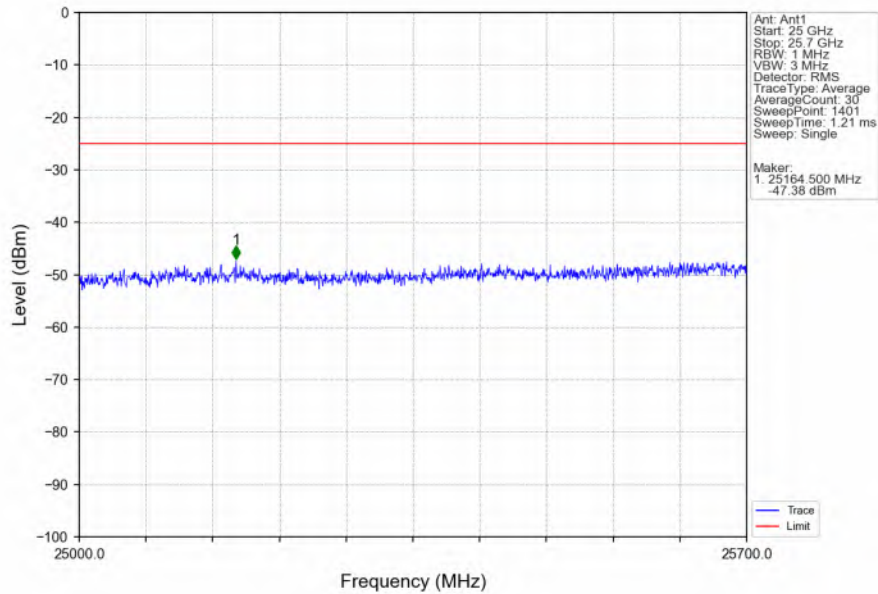
Band7_20MHz_QPSK_HCH_2560MHz_RB_1_0_NTNV



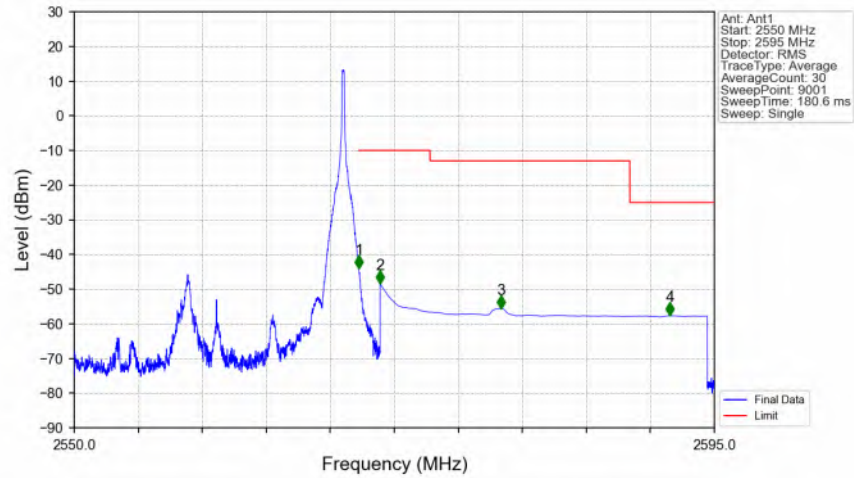
Band7_20MHz_QPSK_HCH_2560MHz_RB_1_0_NTNV



Band7_20MHz_QPSK_HCH_2560MHz_RB_1_0_NTNV

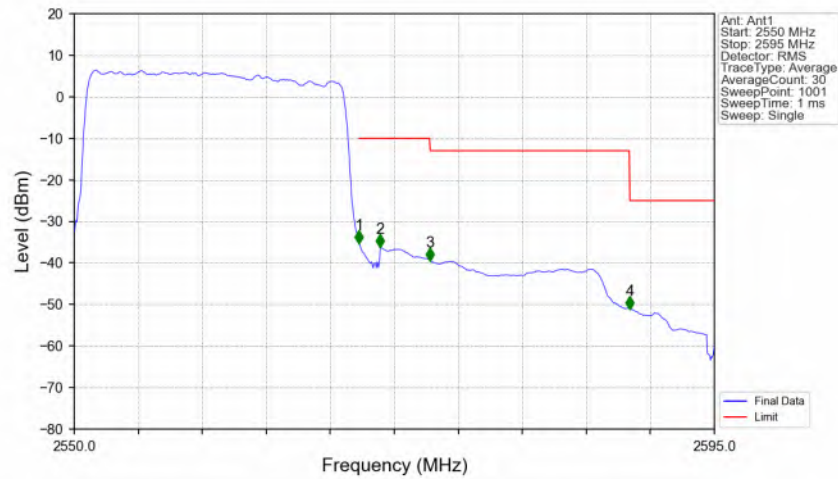


Band7_20MHz_QPSK_HCH_2560MHz_RB_1_99_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2550	2570	0.02	CHP	/	/	/	/	/
2570	2571	0.02	CHP	1	2570.005	-44.05	-10	Pass
2571	2575	1	CHP	2	2571.500	-48.48	-10	Pass
2575	2589.052	1	CHP	3	2579.995	-55.64	-13	Pass
2589.052	2595	1	CHP	4	2591.875	-57.65	-25	Pass

Band7_20MHz_QPSK_HCH_2560MHz_RB_100_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2550	2570	0.381	CHP	/	/	/	/	/
2570	2571	0.381	CHP	1	2570.025	-35.30	-10	Pass
2571	2575	1	CHP	2	2571.510	-36.31	-10	Pass
2575	2589.052	1	CHP	3	2575.020	-39.43	-13	Pass
2589.052	2595	1	CHP	4	2589.060	-51.08	-25	Pass



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	3.27	2530.446	2539.531	2530 to 2540	Pass
					3.85	2530.452	2539.545	2530 to 2540	Pass
					4.43	2530.446	2539.553	2530 to 2540	Pass
				-30	3.85	2530.442	2539.549	2530 to 2540	Pass
				-20	3.85	2530.467	2539.534	2530 to 2540	Pass
				-10	3.85	2530.447	2539.550	2530 to 2540	Pass
				0	3.85	2530.488	2539.549	2530 to 2540	Pass
				10	3.85	2530.452	2539.552	2530 to 2540	Pass
				30	3.85	2530.462	2539.576	2530 to 2540	Pass
				40	3.85	2530.475	2539.537	2530 to 2540	Pass
				50	3.85	2530.450	2539.552	2530 to 2540	Pass

---End of Attachment---