

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	23.11	0.49	23.60	<=33.01	Pass
			13	23.11	0.49	23.60	<=33.01	Pass
			24	23.20	0.49	23.69	<=33.01	Pass
		12	0	22.15	0.49	22.64	<=33.01	Pass
			6	22.15	0.49	22.64	<=33.01	Pass
			13	22.14	0.49	22.63	<=33.01	Pass
		25	0	22.20	0.49	22.69	<=33.01	Pass
	2535	1	0	23.19	0.49	23.68	<=33.01	Pass
			13	23.13	0.49	23.62	<=33.01	Pass
			24	23.11	0.49	23.60	<=33.01	Pass
		12	0	22.20	0.49	22.69	<=33.01	Pass
			6	22.18	0.49	22.67	<=33.01	Pass
			13	22.16	0.49	22.65	<=33.01	Pass
		25	0	22.18	0.49	22.67	<=33.01	Pass
	2567.5	1	0	23.01	0.49	23.50	<=33.01	Pass
			13	23.02	0.49	23.51	<=33.01	Pass
			24	23.01	0.49	23.50	<=33.01	Pass
		12	0	22.07	0.49	22.56	<=33.01	Pass
			6	22.00	0.49	22.49	<=33.01	Pass
			13	21.99	0.49	22.48	<=33.01	Pass
		25	0	22.03	0.49	22.52	<=33.01	Pass
16QAM	2502.5	1	0	22.46	0.49	22.95	<=33.01	Pass
			13	22.33	0.49	22.82	<=33.01	Pass
			24	22.41	0.49	22.90	<=33.01	Pass
		12	0	21.16	0.49	21.65	<=33.01	Pass
			6	21.17	0.49	21.66	<=33.01	Pass
			13	21.14	0.49	21.63	<=33.01	Pass
		25	0	21.20	0.49	21.69	<=33.01	Pass
	2535	1	0	22.36	0.49	22.85	<=33.01	Pass
			13	22.39	0.49	22.88	<=33.01	Pass
			24	22.34	0.49	22.83	<=33.01	Pass
		12	0	21.33	0.49	21.82	<=33.01	Pass
			6	21.33	0.49	21.82	<=33.01	Pass
			13	21.30	0.49	21.79	<=33.01	Pass
		25	0	21.30	0.49	21.79	<=33.01	Pass
	2567.5	1	0	22.21	0.49	22.70	<=33.01	Pass
			13	22.02	0.49	22.51	<=33.01	Pass
			24	22.07	0.49	22.56	<=33.01	Pass
		12	0	20.96	0.49	21.45	<=33.01	Pass
			6	20.87	0.49	21.36	<=33.01	Pass
			13	20.86	0.49	21.35	<=33.01	Pass
		25	0	20.91	0.49	21.40	<=33.01	Pass
64QAM	2502.5	1	0	21.23	0.49	21.72	<=33.01	Pass
			13	21.24	0.49	21.73	<=33.01	Pass
			24	21.29	0.49	21.78	<=33.01	Pass
		12	0	20.20	0.49	20.69	<=33.01	Pass
			6	20.23	0.49	20.72	<=33.01	Pass
			13	20.18	0.49	20.67	<=33.01	Pass
		25	0	20.15	0.49	20.64	<=33.01	Pass

	2535	1	0	21.47	0.49	21.96	<=33.01	Pass
			13	21.50	0.49	21.99	<=33.01	Pass
			24	21.41	0.49	21.90	<=33.01	Pass
		12	0	20.41	0.49	20.90	<=33.01	Pass
			6	20.38	0.49	20.87	<=33.01	Pass
			13	20.35	0.49	20.84	<=33.01	Pass
		25	0	20.30	0.49	20.79	<=33.01	Pass
	2567.5	1	0	21.04	0.49	21.53	<=33.01	Pass
			13	20.96	0.49	21.45	<=33.01	Pass
			24	20.98	0.49	21.47	<=33.01	Pass
		12	0	20.01	0.49	20.50	<=33.01	Pass
			6	19.97	0.49	20.46	<=33.01	Pass
			13	19.94	0.49	20.43	<=33.01	Pass
		25	0	19.91	0.49	20.40	<=33.01	Pass
256QAM	2502.5	1	0	18.22	0.49	18.71	<=33.01	Pass
			13	18.18	0.49	18.67	<=33.01	Pass
			24	18.26	0.49	18.75	<=33.01	Pass
		12	0	18.13	0.49	18.62	<=33.01	Pass
			6	18.14	0.49	18.63	<=33.01	Pass
			13	18.10	0.49	18.59	<=33.01	Pass
		25	0	18.12	0.49	18.61	<=33.01	Pass
	2535	1	0	18.44	0.49	18.93	<=33.01	Pass
			13	18.39	0.49	18.88	<=33.01	Pass
			24	18.31	0.49	18.80	<=33.01	Pass
		12	0	18.33	0.49	18.82	<=33.01	Pass
			6	18.29	0.49	18.78	<=33.01	Pass
			13	18.27	0.49	18.76	<=33.01	Pass
		25	0	18.27	0.49	18.76	<=33.01	Pass
	2567.5	1	0	18.01	0.49	18.50	<=33.01	Pass
			13	17.98	0.49	18.47	<=33.01	Pass
			24	17.96	0.49	18.45	<=33.01	Pass
		12	0	17.91	0.49	18.40	<=33.01	Pass
			6	17.89	0.49	18.38	<=33.01	Pass
			13	17.87	0.49	18.36	<=33.01	Pass
		25	0	17.86	0.49	18.35	<=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	23.26	0.49	23.75	<=33.01	Pass
			25	23.14	0.49	23.63	<=33.01	Pass
			49	23.14	0.49	23.63	<=33.01	Pass
		25	0	22.23	0.49	22.72	<=33.01	Pass
			13	22.17	0.49	22.66	<=33.01	Pass
			25	22.16	0.49	22.65	<=33.01	Pass
		50	0	22.19	0.49	22.68	<=33.01	Pass
	2535	1	0	23.20	0.49	23.69	<=33.01	Pass
			25	23.17	0.49	23.66	<=33.01	Pass
			49	23.14	0.49	23.63	<=33.01	Pass
		25	0	22.23	0.49	22.72	<=33.01	Pass
			13	22.21	0.49	22.70	<=33.01	Pass
			25	22.21	0.49	22.70	<=33.01	Pass
		50	0	22.21	0.49	22.70	<=33.01	Pass
	2565	1	0	23.14	0.49	23.63	<=33.01	Pass

			25	22.97	0.49	23.46	<=33.01	Pass
			49	23.01	0.49	23.50	<=33.01	Pass
			0	22.17	0.49	22.66	<=33.01	Pass
		25	13	22.13	0.49	22.62	<=33.01	Pass
			25	22.08	0.49	22.57	<=33.01	Pass
			0	22.12	0.49	22.61	<=33.01	Pass
		50	0	22.12	0.49	22.61	<=33.01	Pass
16QAM	2505	1	0	22.57	0.49	23.06	<=33.01	Pass
			25	22.34	0.49	22.83	<=33.01	Pass
			49	22.47	0.49	22.96	<=33.01	Pass
		25	0	21.16	0.49	21.65	<=33.01	Pass
			13	21.20	0.49	21.69	<=33.01	Pass
			25	21.19	0.49	21.68	<=33.01	Pass
		50	0	21.20	0.49	21.69	<=33.01	Pass
	2535	1	0	22.48	0.49	22.97	<=33.01	Pass
			25	22.42	0.49	22.91	<=33.01	Pass
			49	22.38	0.49	22.87	<=33.01	Pass
		25	0	21.36	0.49	21.85	<=33.01	Pass
			13	21.34	0.49	21.83	<=33.01	Pass
			25	21.32	0.49	21.81	<=33.01	Pass
		50	0	21.33	0.49	21.82	<=33.01	Pass
	2565	1	0	22.39	0.49	22.88	<=33.01	Pass
			25	22.29	0.49	22.78	<=33.01	Pass
			49	22.08	0.49	22.57	<=33.01	Pass
		25	0	21.04	0.49	21.53	<=33.01	Pass
			13	20.97	0.49	21.46	<=33.01	Pass
			25	20.96	0.49	21.45	<=33.01	Pass
		50	0	20.94	0.49	21.43	<=33.01	Pass
64QAM	2505	1	0	21.24	0.49	21.73	<=33.01	Pass
			25	21.25	0.49	21.74	<=33.01	Pass
			49	21.44	0.49	21.93	<=33.01	Pass
		25	0	20.19	0.49	20.68	<=33.01	Pass
			13	20.20	0.49	20.69	<=33.01	Pass
			25	20.16	0.49	20.65	<=33.01	Pass
		50	0	20.18	0.49	20.67	<=33.01	Pass
	2535	1	0	21.51	0.49	22.00	<=33.01	Pass
			25	21.41	0.49	21.90	<=33.01	Pass
			49	21.39	0.49	21.88	<=33.01	Pass
		25	0	20.34	0.49	20.83	<=33.01	Pass
			13	20.29	0.49	20.78	<=33.01	Pass
			25	20.29	0.49	20.78	<=33.01	Pass
		50	0	20.34	0.49	20.83	<=33.01	Pass
	2565	1	0	21.12	0.49	21.61	<=33.01	Pass
			25	21.09	0.49	21.58	<=33.01	Pass
			49	21.01	0.49	21.50	<=33.01	Pass
		25	0	20.01	0.49	20.50	<=33.01	Pass
			13	19.98	0.49	20.47	<=33.01	Pass
			25	19.96	0.49	20.45	<=33.01	Pass
		50	0	19.94	0.49	20.43	<=33.01	Pass
256QAM	2505	1	0	18.24	0.49	18.73	<=33.01	Pass
			25	18.20	0.49	18.69	<=33.01	Pass
			49	18.25	0.49	18.74	<=33.01	Pass
		25	0	18.15	0.49	18.64	<=33.01	Pass
			13	18.17	0.49	18.66	<=33.01	Pass
			25	18.15	0.49	18.64	<=33.01	Pass
		50	0	18.15	0.49	18.64	<=33.01	Pass
	2535	1	0	18.39	0.49	18.88	<=33.01	Pass
			25	18.42	0.49	18.91	<=33.01	Pass
			49	18.34	0.49	18.83	<=33.01	Pass
		25	0	18.27	0.49	18.76	<=33.01	Pass

		50	13	18.30	0.49	18.79	<=33.01	Pass
			25	18.27	0.49	18.76	<=33.01	Pass
			0	18.30	0.49	18.79	<=33.01	Pass
	2565	1	0	18.13	0.49	18.62	<=33.01	Pass
			25	18.03	0.49	18.52	<=33.01	Pass
			49	17.99	0.49	18.48	<=33.01	Pass
		25	0	17.99	0.49	18.48	<=33.01	Pass
			13	17.92	0.49	18.41	<=33.01	Pass
			25	17.93	0.49	18.42	<=33.01	Pass
		50	0	17.95	0.49	18.44	<=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	23.20	0.49	23.69	<=33.01	Pass
			38	23.15	0.49	23.64	<=33.01	Pass
			74	23.13	0.49	23.62	<=33.01	Pass
		36	0	22.16	0.49	22.65	<=33.01	Pass
			18	22.10	0.49	22.59	<=33.01	Pass
			39	22.13	0.49	22.62	<=33.01	Pass
		75	0	22.14	0.49	22.63	<=33.01	Pass
	2535	1	0	23.16	0.49	23.65	<=33.01	Pass
			38	23.31	0.49	23.80	<=33.01	Pass
			74	23.17	0.49	23.66	<=33.01	Pass
		36	0	22.20	0.49	22.69	<=33.01	Pass
			18	22.16	0.49	22.65	<=33.01	Pass
			39	22.17	0.49	22.66	<=33.01	Pass
		75	0	22.20	0.49	22.69	<=33.01	Pass
	2562.5	1	0	23.23	0.49	23.72	<=33.01	Pass
			38	23.08	0.49	23.57	<=33.01	Pass
			74	23.07	0.49	23.56	<=33.01	Pass
		36	0	22.16	0.49	22.65	<=33.01	Pass
			18	22.10	0.49	22.59	<=33.01	Pass
			39	22.08	0.49	22.57	<=33.01	Pass
		75	0	22.13	0.49	22.62	<=33.01	Pass
16QAM	2507.5	1	0	22.50	0.49	22.99	<=33.01	Pass
			38	22.34	0.49	22.83	<=33.01	Pass
			74	22.43	0.49	22.92	<=33.01	Pass
		36	0	21.13	0.49	21.62	<=33.01	Pass
			18	21.14	0.49	21.63	<=33.01	Pass
			39	21.19	0.49	21.68	<=33.01	Pass
		75	0	21.20	0.49	21.69	<=33.01	Pass
	2535	1	0	22.41	0.49	22.90	<=33.01	Pass
			38	22.40	0.49	22.89	<=33.01	Pass
			74	22.42	0.49	22.91	<=33.01	Pass
		36	0	21.33	0.49	21.82	<=33.01	Pass
			18	21.26	0.49	21.75	<=33.01	Pass
			39	21.25	0.49	21.74	<=33.01	Pass
		75	0	21.27	0.49	21.76	<=33.01	Pass
	2562.5	1	0	22.47	0.49	22.96	<=33.01	Pass
			38	22.27	0.49	22.76	<=33.01	Pass
			74	22.04	0.49	22.53	<=33.01	Pass
		36	0	21.03	0.49	21.52	<=33.01	Pass
			18	20.96	0.49	21.45	<=33.01	Pass

			39	20.92	0.49	21.41	<=33.01	Pass		
		75	0	21.03	0.49	21.52	<=33.01	Pass		
64QAM	2507.5	1	0	21.25	0.49	21.74	<=33.01	Pass		
			38	21.27	0.49	21.76	<=33.01	Pass		
			74	21.37	0.49	21.86	<=33.01	Pass		
			0	20.13	0.49	20.62	<=33.01	Pass		
		36	18	20.17	0.49	20.66	<=33.01	Pass		
			39	20.18	0.49	20.67	<=33.01	Pass		
			75	0	20.17	0.49	20.66	<=33.01	Pass	
		2535	1	0	21.42	0.49	21.91	<=33.01	Pass	
				38	21.43	0.49	21.92	<=33.01	Pass	
	74			21.36	0.49	21.85	<=33.01	Pass		
	0			20.32	0.49	20.81	<=33.01	Pass		
	36		18	20.30	0.49	20.79	<=33.01	Pass		
			39	20.27	0.49	20.76	<=33.01	Pass		
			75	0	20.29	0.49	20.78	<=33.01	Pass	
	2562.5		1	0	21.25	0.49	21.74	<=33.01	Pass	
				38	21.04	0.49	21.53	<=33.01	Pass	
		74		21.03	0.49	21.52	<=33.01	Pass		
		0		20.03	0.49	20.52	<=33.01	Pass		
		36	18	20.01	0.49	20.50	<=33.01	Pass		
			39	19.94	0.49	20.43	<=33.01	Pass		
			75	0	20.01	0.49	20.50	<=33.01	Pass	
		256QAM	2507.5	1	0	18.22	0.49	18.71	<=33.01	Pass
					38	18.27	0.49	18.76	<=33.01	Pass
74	18.34				0.49	18.83	<=33.01	Pass		
36	0			18.14	0.49	18.63	<=33.01	Pass		
	18			18.16	0.49	18.65	<=33.01	Pass		
	39			18.16	0.49	18.65	<=33.01	Pass		
75	0			18.16	0.49	18.65	<=33.01	Pass		
2535	1			0	18.44	0.49	18.93	<=33.01	Pass	
				38	18.36	0.49	18.85	<=33.01	Pass	
			74	18.31	0.49	18.80	<=33.01	Pass		
	36		0	18.32	0.49	18.81	<=33.01	Pass		
			18	18.27	0.49	18.76	<=33.01	Pass		
			39	18.20	0.49	18.69	<=33.01	Pass		
75	0		18.26	0.49	18.75	<=33.01	Pass			
2562.5	1		0	18.23	0.49	18.72	<=33.01	Pass		
			38	18.15	0.49	18.64	<=33.01	Pass		
			74	17.93	0.49	18.42	<=33.01	Pass		
	36		0	17.99	0.49	18.48	<=33.01	Pass		
			18	17.95	0.49	18.44	<=33.01	Pass		
			39	17.95	0.49	18.44	<=33.01	Pass		
	75		0	18.02	0.49	18.51	<=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	23.19	0.49	23.68	<=33.01	Pass
			50	23.10	0.49	23.59	<=33.01	Pass
			99	23.15	0.49	23.64	<=33.01	Pass
		50	0	22.24	0.49	22.73	<=33.01	Pass
			25	22.18	0.49	22.67	<=33.01	Pass
			50	22.15	0.49	22.64	<=33.01	Pass

		100	0	22.21	0.49	22.70	<=33.01	Pass	
		2535	1	0	23.24	0.49	23.73	<=33.01	Pass
				50	23.19	0.49	23.68	<=33.01	Pass
				99	23.31	0.49	23.80	<=33.01	Pass
			50	0	22.25	0.49	22.74	<=33.01	Pass
				25	22.25	0.49	22.74	<=33.01	Pass
				50	22.24	0.49	22.73	<=33.01	Pass
		100	0	22.26	0.49	22.75	<=33.01	Pass	
		2560	1	0	23.24	0.49	23.73	<=33.01	Pass
				50	23.11	0.49	23.60	<=33.01	Pass
				99	22.96	0.49	23.45	<=33.01	Pass
			50	0	22.26	0.49	22.75	<=33.01	Pass
				25	22.21	0.49	22.70	<=33.01	Pass
				50	22.20	0.49	22.69	<=33.01	Pass
		100	0	22.24	0.49	22.73	<=33.01	Pass	
		16QAM	2510	1	0	22.54	0.49	23.03	<=33.01
50	22.46				0.49	22.95	<=33.01	Pass	
99	22.36				0.49	22.85	<=33.01	Pass	
50	0			21.23	0.49	21.72	<=33.01	Pass	
	25			21.24	0.49	21.73	<=33.01	Pass	
	50			21.28	0.49	21.77	<=33.01	Pass	
100	0		21.25	0.49	21.74	<=33.01	Pass		
2535	1		0	22.48	0.49	22.97	<=33.01	Pass	
			50	22.38	0.49	22.87	<=33.01	Pass	
			99	22.43	0.49	22.92	<=33.01	Pass	
	50		0	21.36	0.49	21.85	<=33.01	Pass	
			25	21.33	0.49	21.82	<=33.01	Pass	
			50	21.31	0.49	21.80	<=33.01	Pass	
100	0		21.33	0.49	21.82	<=33.01	Pass		
2560	1		0	22.50	0.49	22.99	<=33.01	Pass	
			50	22.51	0.49	23.00	<=33.01	Pass	
			99	22.17	0.49	22.66	<=33.01	Pass	
	50		0	21.11	0.49	21.60	<=33.01	Pass	
			25	21.06	0.49	21.55	<=33.01	Pass	
			50	21.05	0.49	21.54	<=33.01	Pass	
100	0		21.03	0.49	21.52	<=33.01	Pass		
64QAM	2510		1	0	21.33	0.49	21.82	<=33.01	Pass
				50	21.27	0.49	21.76	<=33.01	Pass
				99	21.30	0.49	21.79	<=33.01	Pass
		50	0	20.19	0.49	20.68	<=33.01	Pass	
			25	20.19	0.49	20.68	<=33.01	Pass	
			50	20.24	0.49	20.73	<=33.01	Pass	
	100	0	20.21	0.49	20.70	<=33.01	Pass		
	2535	1	0	21.45	0.49	21.94	<=33.01	Pass	
			50	21.52	0.49	22.01	<=33.01	Pass	
			99	21.31	0.49	21.80	<=33.01	Pass	
		50	0	20.38	0.49	20.87	<=33.01	Pass	
			25	20.33	0.49	20.82	<=33.01	Pass	
			50	20.28	0.49	20.77	<=33.01	Pass	
	100	0	20.34	0.49	20.83	<=33.01	Pass		
	2560	1	0	21.23	0.49	21.72	<=33.01	Pass	
			50	21.13	0.49	21.62	<=33.01	Pass	
			99	21.06	0.49	21.55	<=33.01	Pass	
		50	0	20.11	0.49	20.60	<=33.01	Pass	
25			20.03	0.49	20.52	<=33.01	Pass		
50			20.02	0.49	20.51	<=33.01	Pass		
100	0	20.03	0.49	20.52	<=33.01	Pass			
256QAM	2510	1	0	18.26	0.49	18.75	<=33.01	Pass	
			50	18.30	0.49	18.79	<=33.01	Pass	

			99	18.32	0.49	18.81	<=33.01	Pass	
		50	0	18.19	0.49	18.68	<=33.01	Pass	
			25	18.21	0.49	18.70	<=33.01	Pass	
			50	18.24	0.49	18.73	<=33.01	Pass	
		100	0	18.21	0.49	18.70	<=33.01	Pass	
	2535	1	0	18.52	0.49	19.01	<=33.01	Pass	
			50	18.45	0.49	18.94	<=33.01	Pass	
			99	18.32	0.49	18.81	<=33.01	Pass	
		50	0	18.35	0.49	18.84	<=33.01	Pass	
			25	18.32	0.49	18.81	<=33.01	Pass	
			50	18.23	0.49	18.72	<=33.01	Pass	
		100	0	18.32	0.49	18.81	<=33.01	Pass	
		2560	1	0	18.24	0.49	18.73	<=33.01	Pass
				50	18.13	0.49	18.62	<=33.01	Pass
	99			18.09	0.49	18.58	<=33.01	Pass	
	50		0	18.06	0.49	18.55	<=33.01	Pass	
			25	18.03	0.49	18.52	<=33.01	Pass	
			50	18.00	0.49	18.49	<=33.01	Pass	
	100		0	18.04	0.49	18.53	<=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	3.7	-3.963	-0.0016	-2.5 to 2.5	Pass
					3.91	1.159	0.0005	-2.5 to 2.5	Pass
					4.3	-1.831	-0.0007	-2.5 to 2.5	Pass
				-30	3.91	-2.518	-0.0010	-2.5 to 2.5	Pass
				-20	3.91	-4.334	-0.0017	-2.5 to 2.5	Pass
				-10	3.91	-2.661	-0.0010	-2.5 to 2.5	Pass
				0	3.91	-4.392	-0.0017	-2.5 to 2.5	Pass
				10	3.91	1.030	0.0004	-2.5 to 2.5	Pass
				30	3.91	-6.566	-0.0026	-2.5 to 2.5	Pass
				40	3.91	-7.067	-0.0028	-2.5 to 2.5	Pass
				50	3.91	-8.826	-0.0035	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band7_OBW

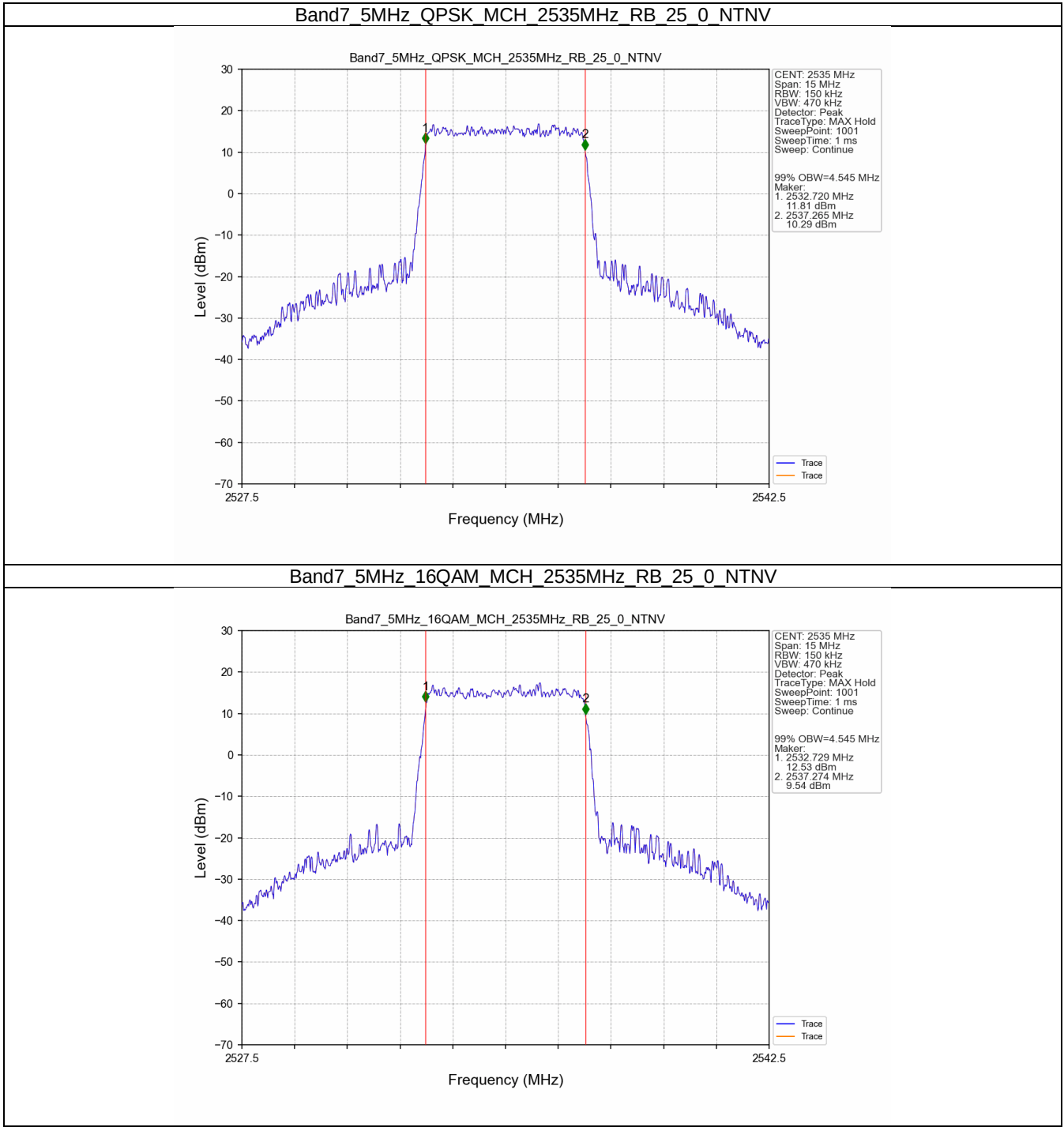
Band: 7 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2535	25	0	4.545	/	Pass
	16QAM	2535	25	0	4.545	/	Pass
10	QPSK	2535	50	0	9.068	/	Pass
	16QAM	2535	50	0	9.021	/	Pass
15	QPSK	2535	75	0	13.548	/	Pass
	16QAM	2535	75	0	13.548	/	Pass
20	QPSK	2535	100	0	18.021	/	Pass
	16QAM	2535	100	0	18.079	/	Pass

3.1.2 Band7_XDB

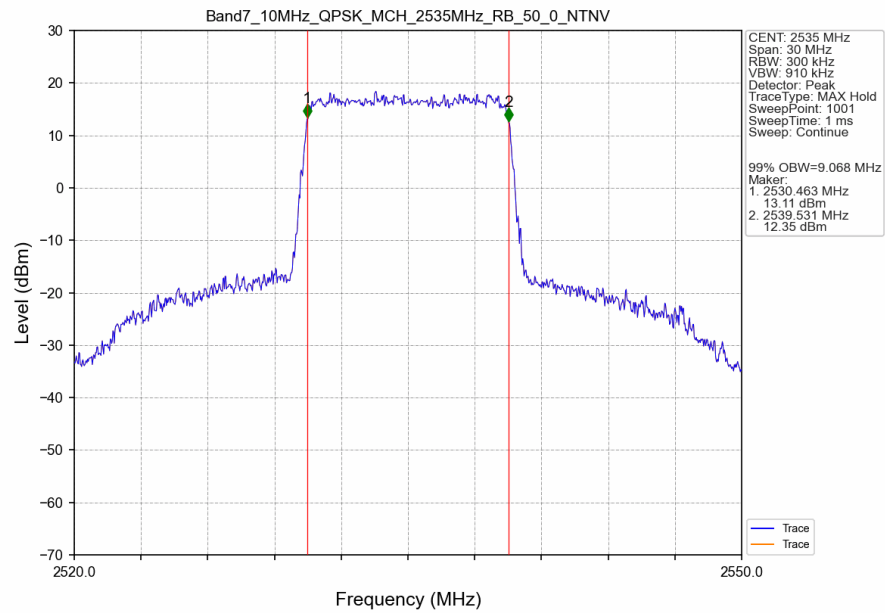
Band: 7 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2535	25	0	5.031	/	Pass
	16QAM	2535	25	0	5.053	/	Pass
10	QPSK	2535	50	0	9.957	/	Pass
	16QAM	2535	50	0	9.918	/	Pass
15	QPSK	2535	75	0	14.871	/	Pass
	16QAM	2535	75	0	14.843	/	Pass
20	QPSK	2535	100	0	19.840	/	Pass
	16QAM	2535	100	0	19.697	/	Pass

3.2 Test Graph

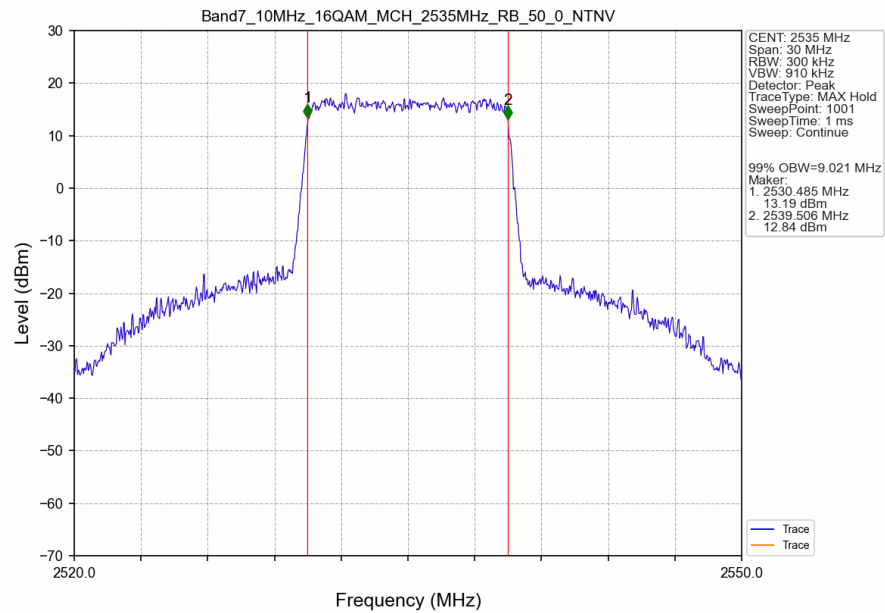
3.2.1 Band7_OBW



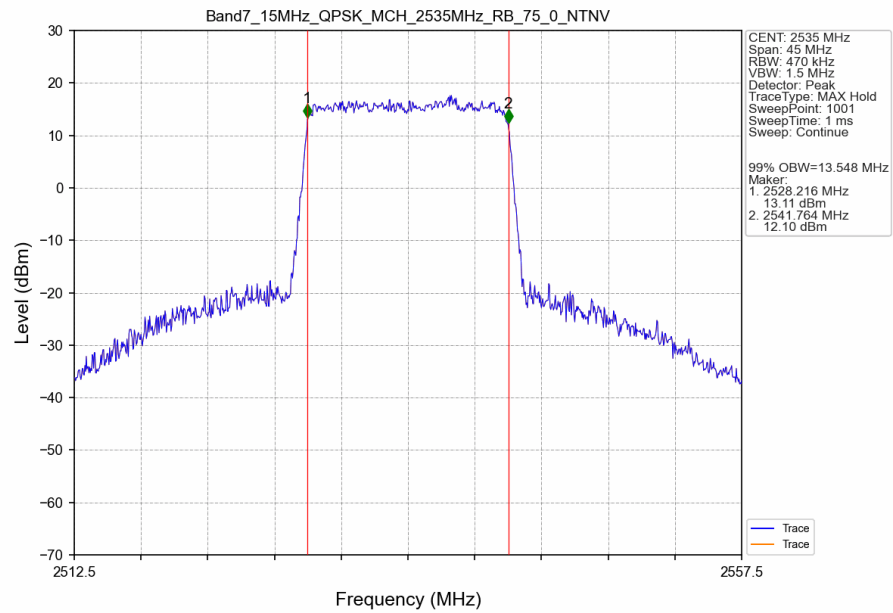
Band7 10MHz QPSK MCH 2535MHz RB 50 0 NTV



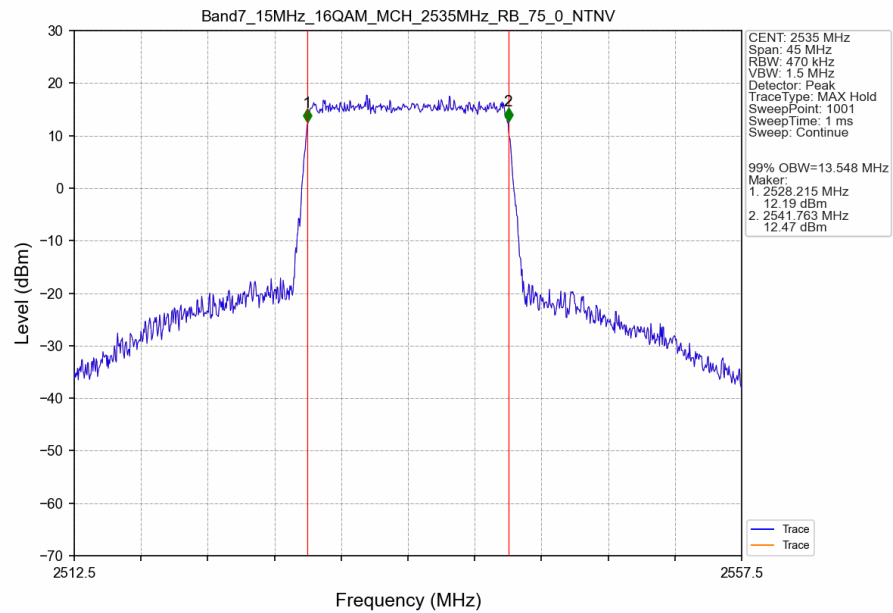
Band7 10MHz 16QAM MCH 2535MHz RB 50 0 NTV



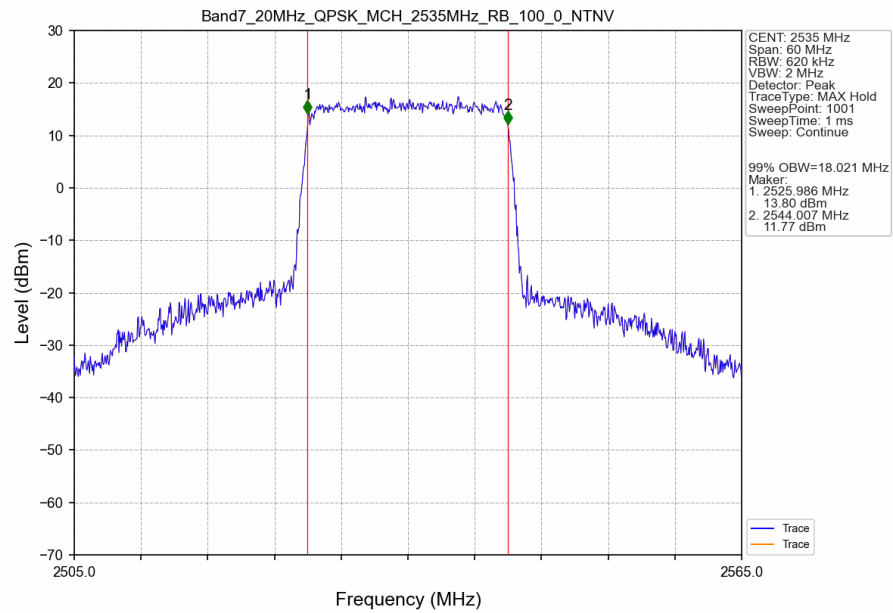
Band7 15MHz QPSK MCH 2535MHz RB 75 0 NTV



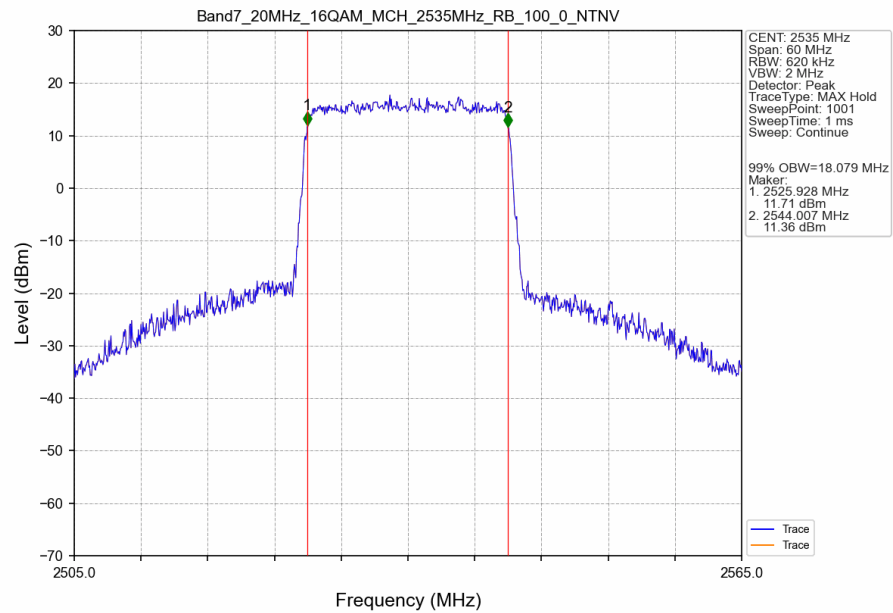
Band7 15MHz 16QAM MCH 2535MHz RB 75 0 NTV



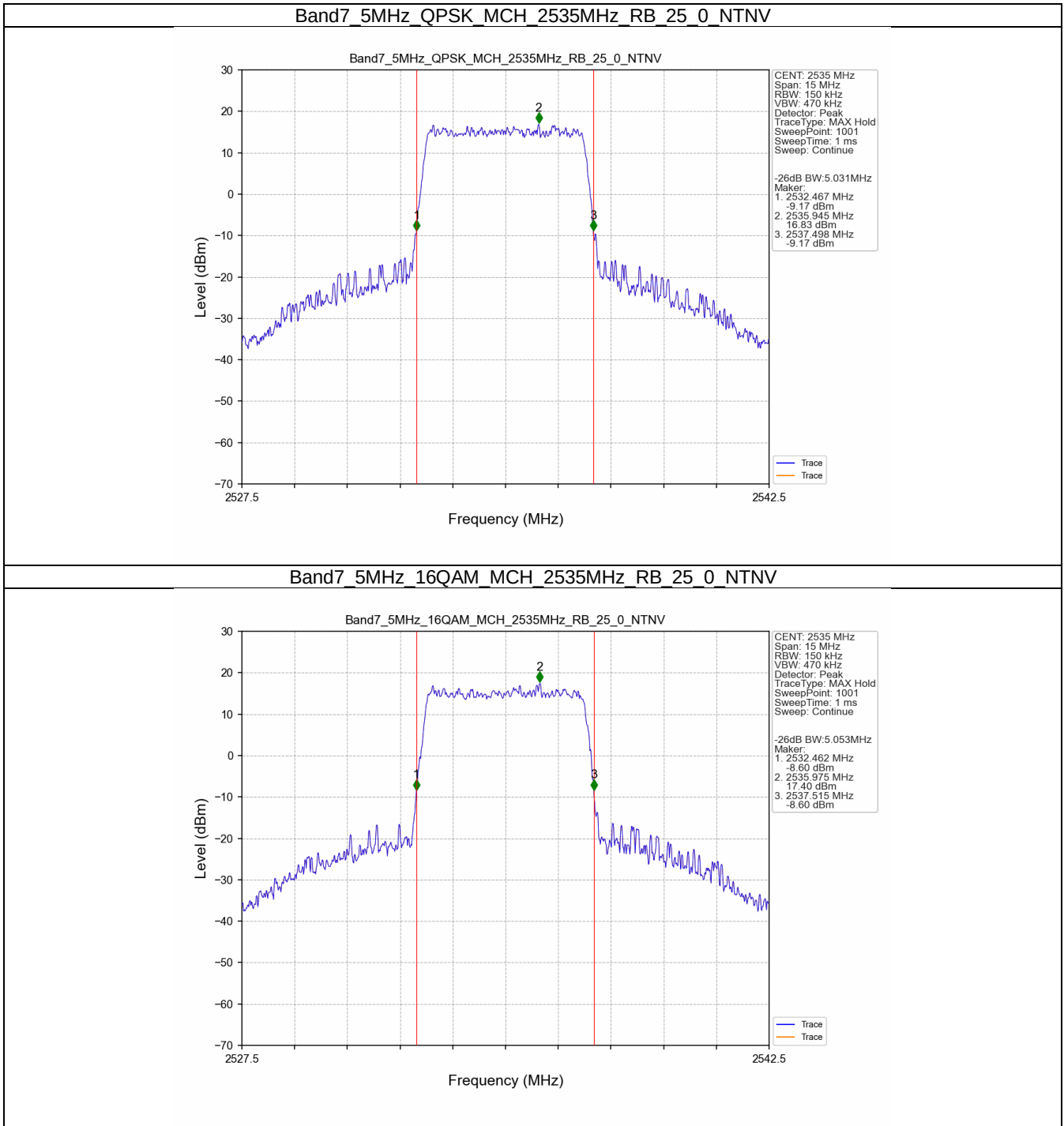
Band7 20MHz QPSK MCH 2535MHz RB 100 0 NTNV



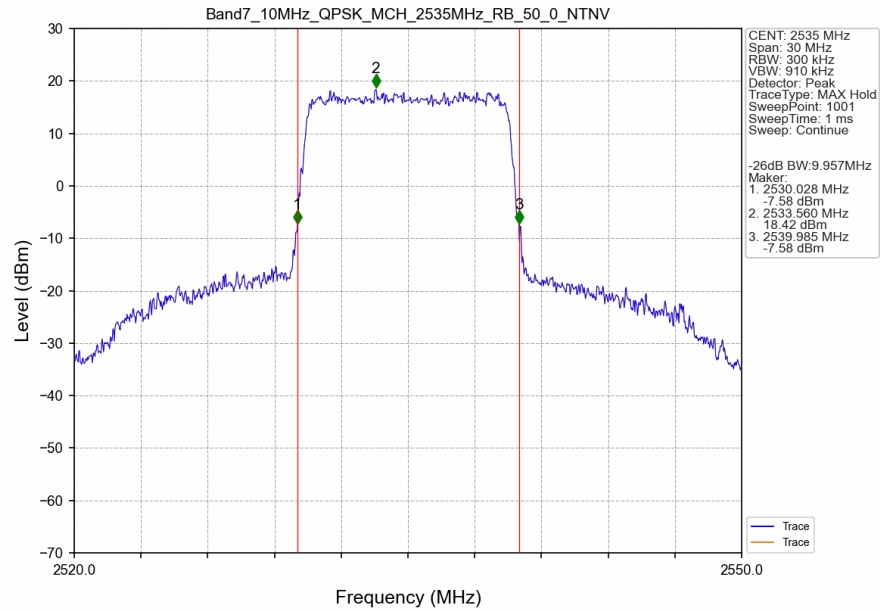
Band7 20MHz 16QAM MCH 2535MHz RB 100 0 NTNV



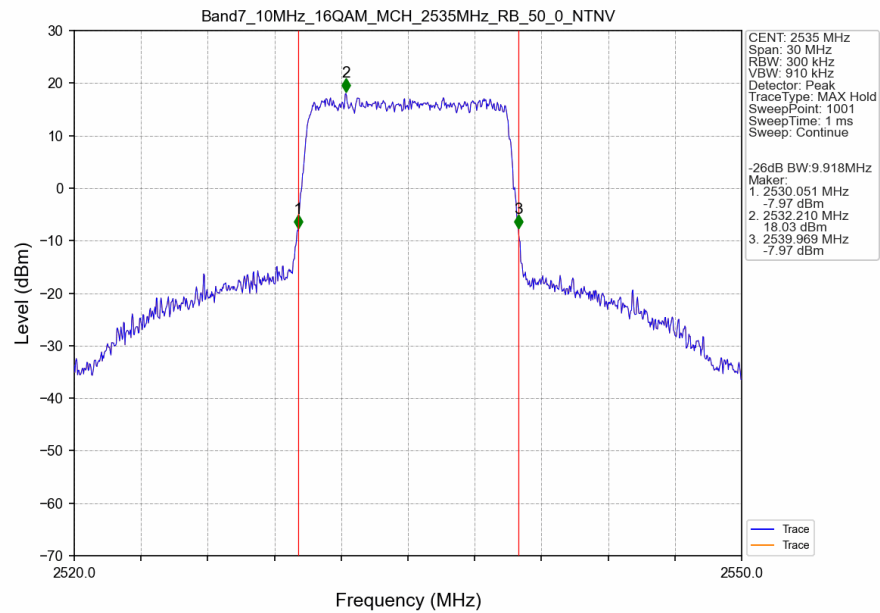
3.2.2 Band7_XDB



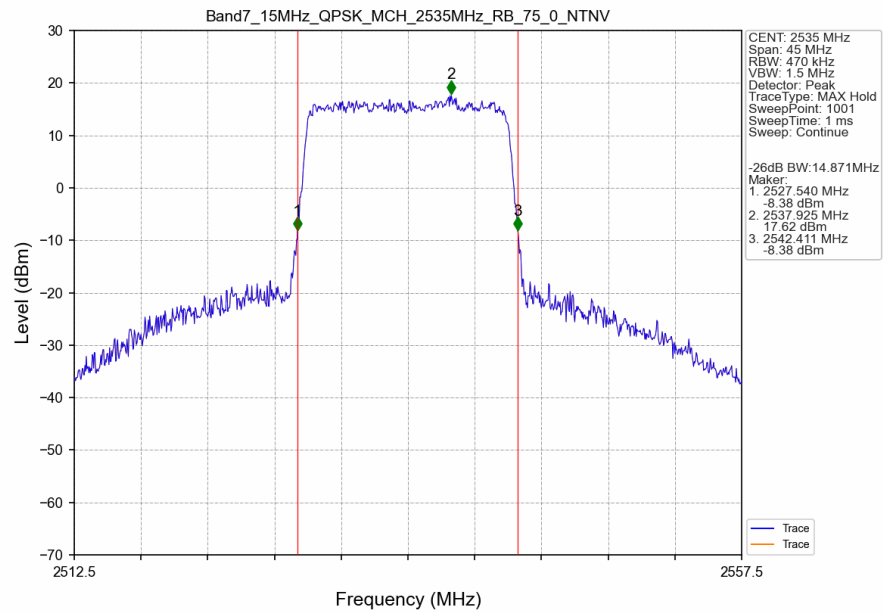
Band7 10MHz QPSK MCH 2535MHz RB 50 0 NTN



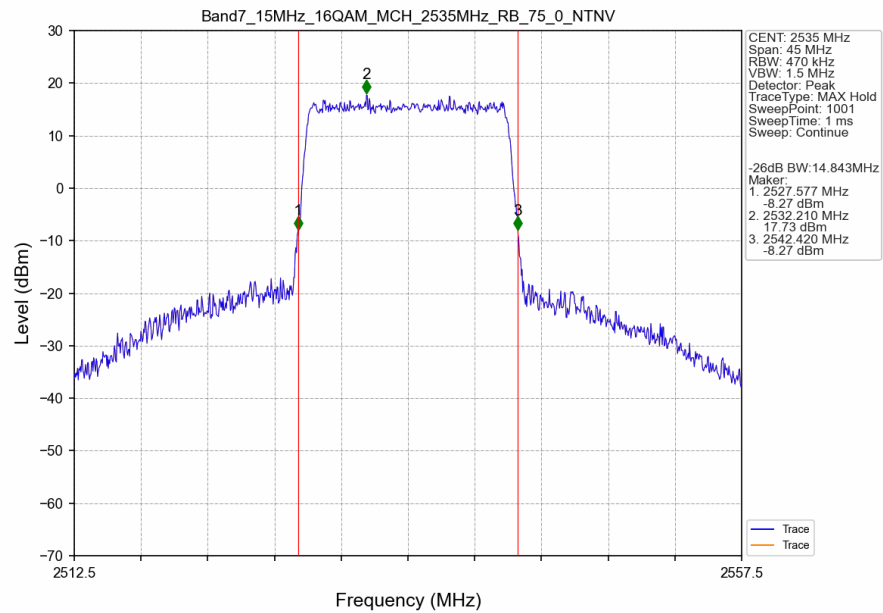
Band7 10MHz 16QAM MCH 2535MHz RB 50 0 NTN



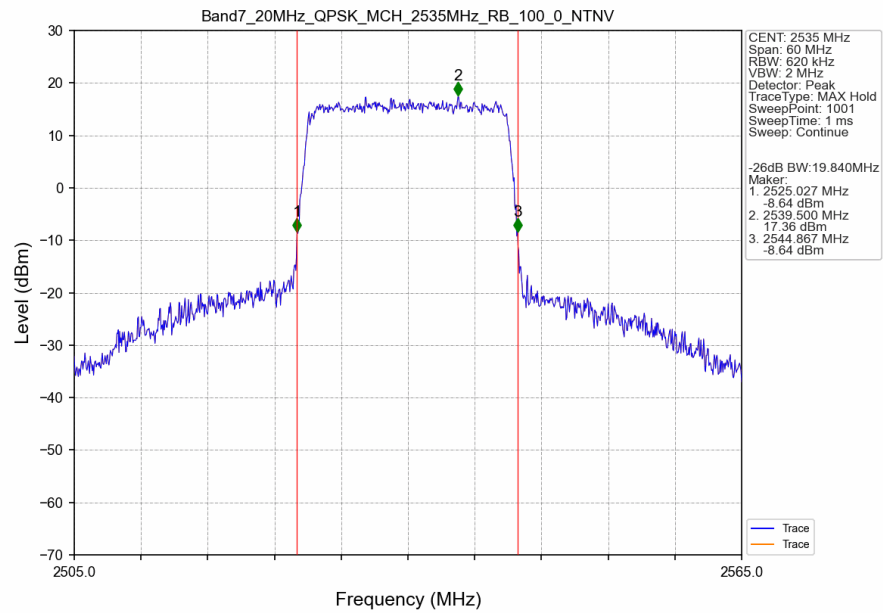
Band7 15MHz QPSK MCH 2535MHz RB 75 0 NTV



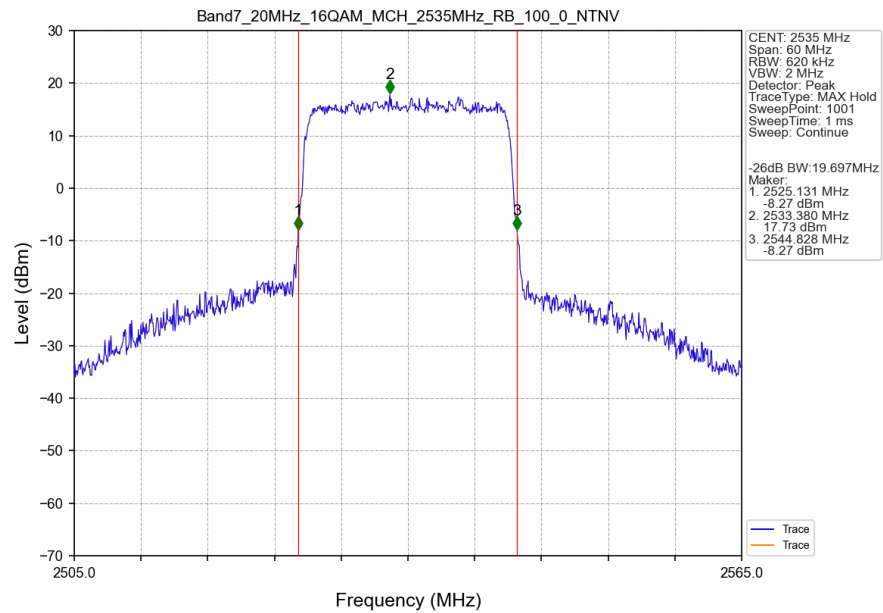
Band7 15MHz 16QAM MCH 2535MHz RB 75 0 NTV



Band7 20MHz QPSK MCH 2535MHz RB 100 0 NTNV



Band7 20MHz 16QAM MCH 2535MHz RB 100 0 NTNV



4. Peak-Average Ratio

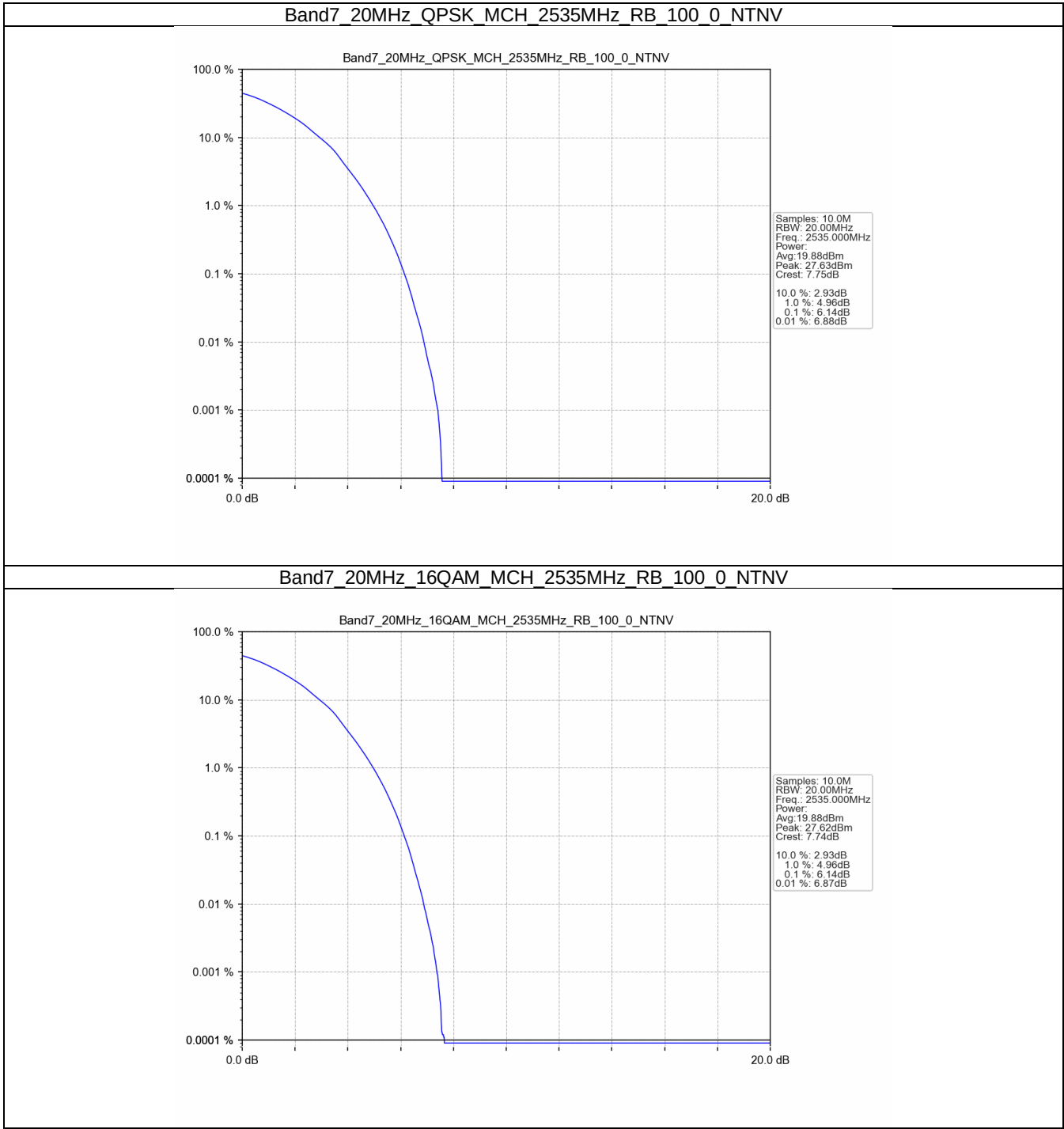
4.1 Test Result

4.1.1 B7_20MHz

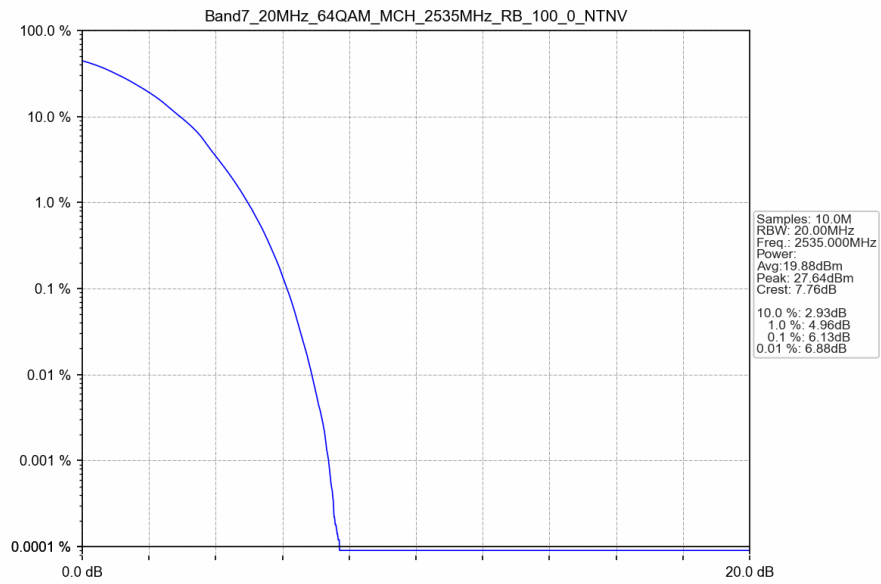
Band: 7 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2535	100	0	6.14	<=13	Pass
16QAM	2535	100	0	6.14	<=13	Pass
64QAM	2535	100	0	6.13	<=13	Pass
256QAM	2535	100	0	6.55	<=13	Pass

4.2 Test Graph

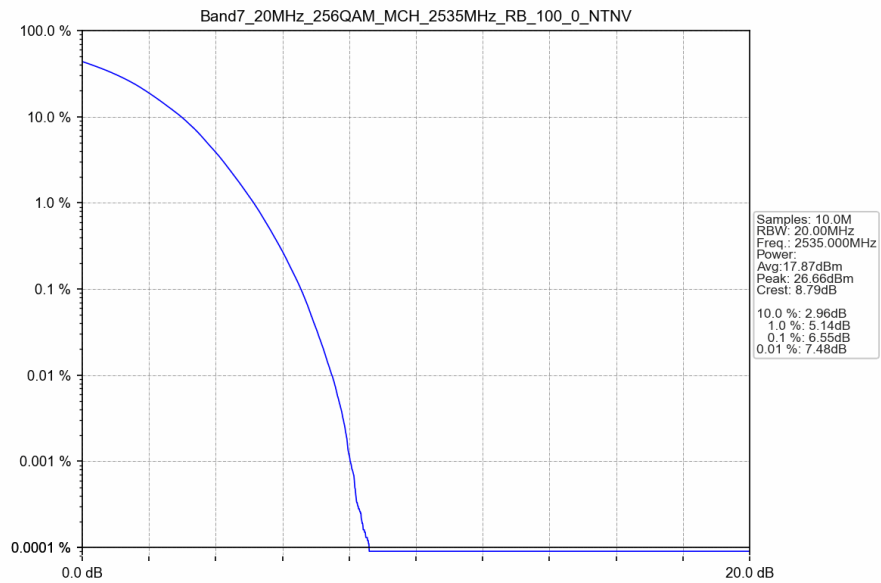
4.2.1 B7_20MHz



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	
	24			Refer To Test Graph		Pass
	25		0	Refer To Test Graph		Pass

5.1.2 B7_10MHz

Band: 7 / Bandwidth: 10MHz / NTV						
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

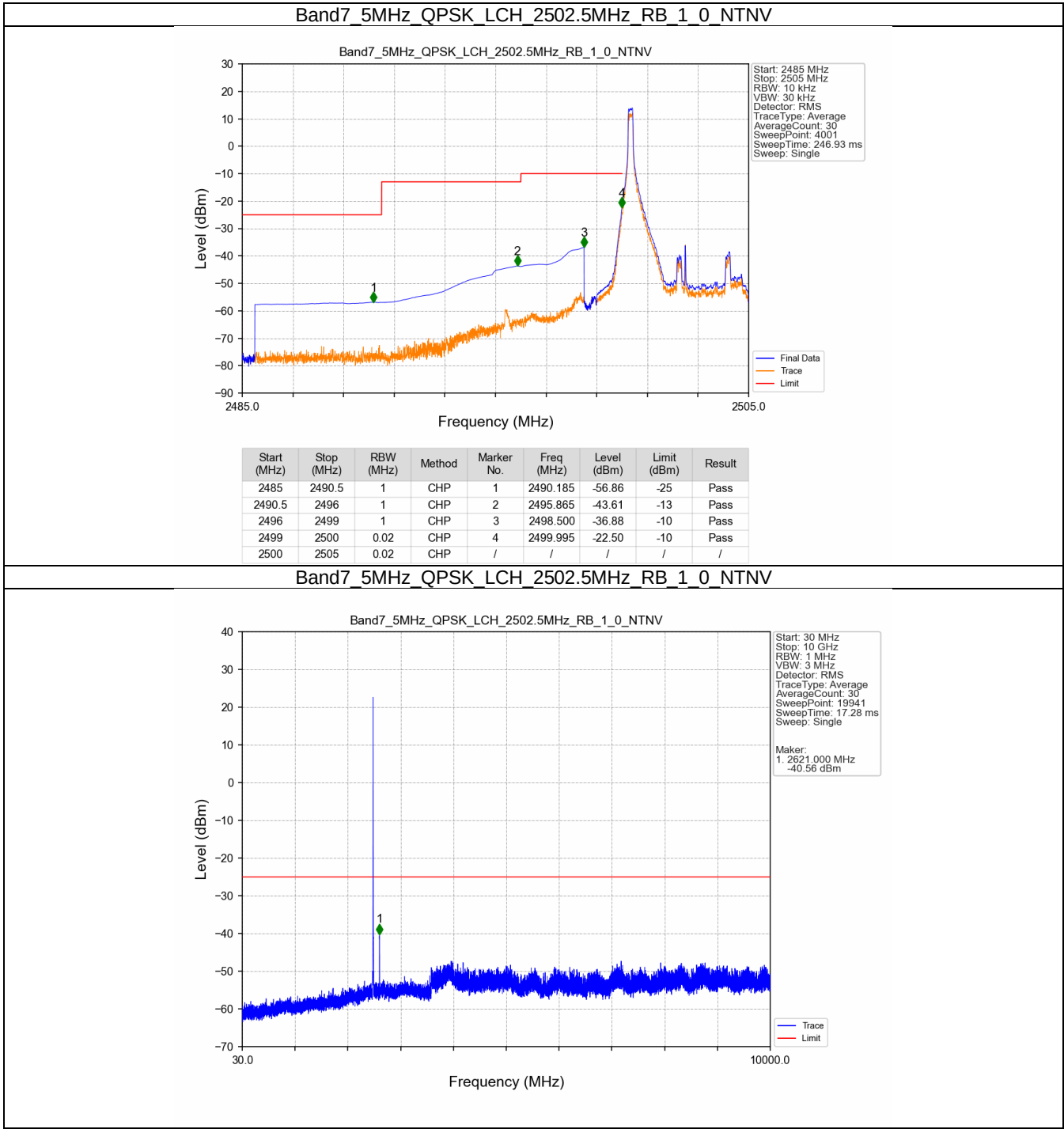
Band: 7 / Bandwidth: 15MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2507.5	1	0	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
	2535	1	0	Refer To Test Graph		Pass
	2562.5	1	0	Refer To Test Graph		Pass
			74	Refer To Test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

5.1.4 B7_20MHz

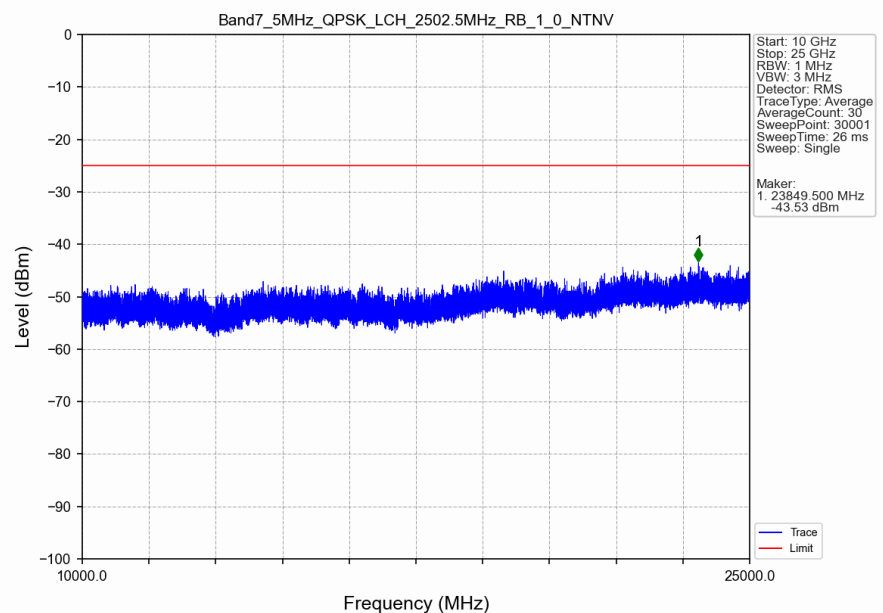
Band: 7 / Bandwidth: 20MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2510	1	0	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
	2535	1	0	Refer To Test Graph		Pass
	2560	1	0	Refer To Test Graph		Pass
			99	Refer To Test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

5.2 Test Graph

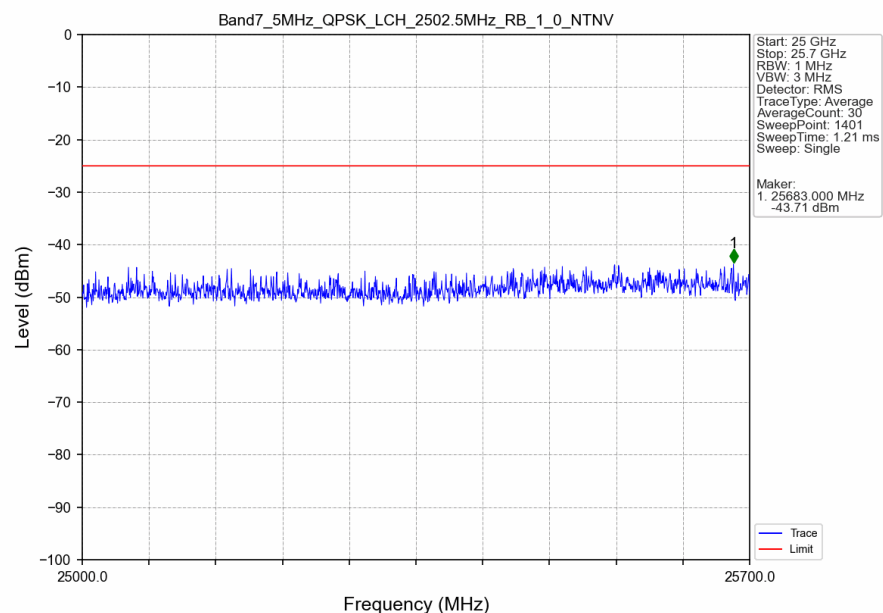
5.2.1 B7_5MHz



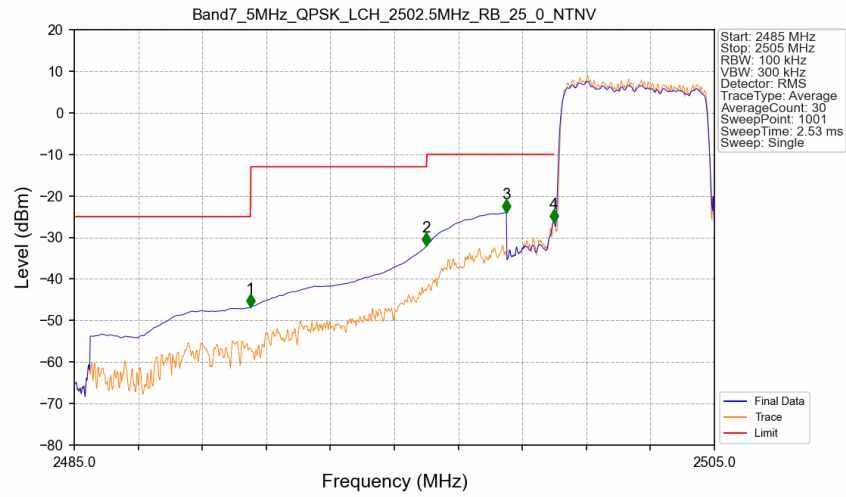
Band7 5MHz QPSK LCH 2502.5MHz RB 1 0 NTN



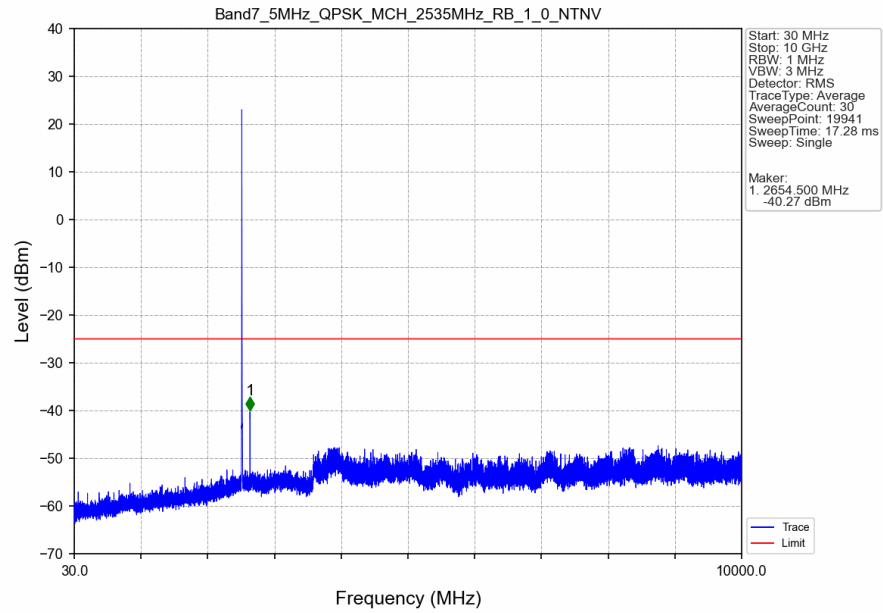
Band7 5MHz QPSK LCH 2502.5MHz RB 1 0 NTN



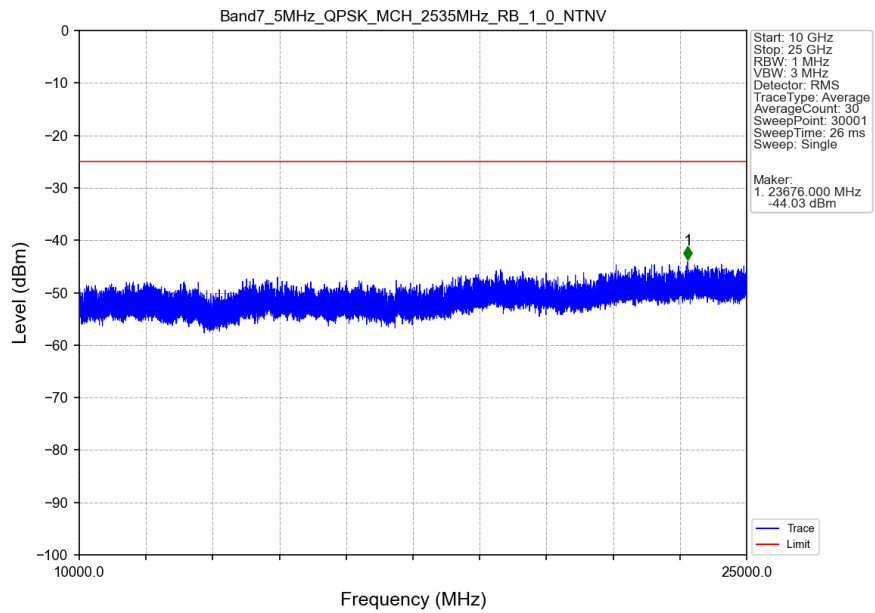
Band7 5MHz QPSK LCH 2502.5MHz RB 25 0 NTV



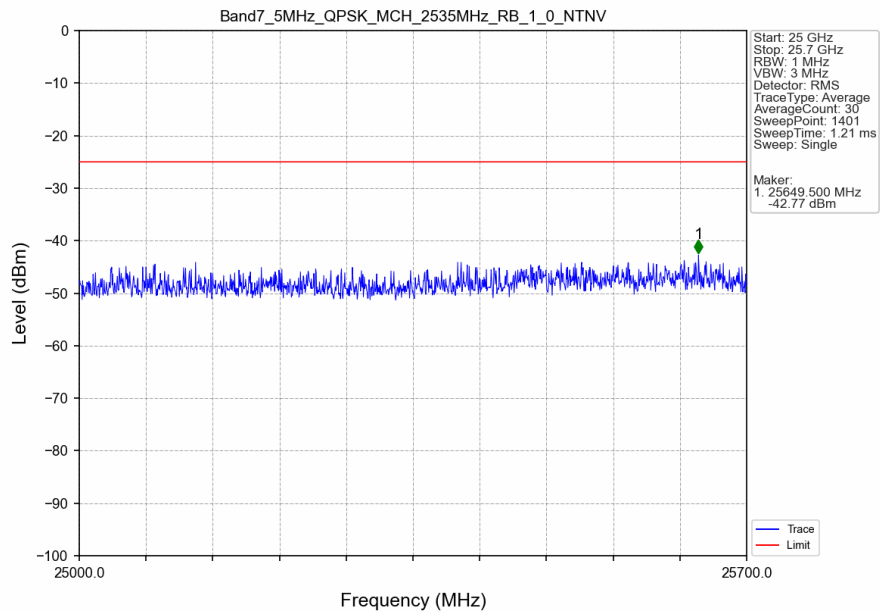
Band7 5MHz QPSK MCH 2535MHz RB 1 0 NTV



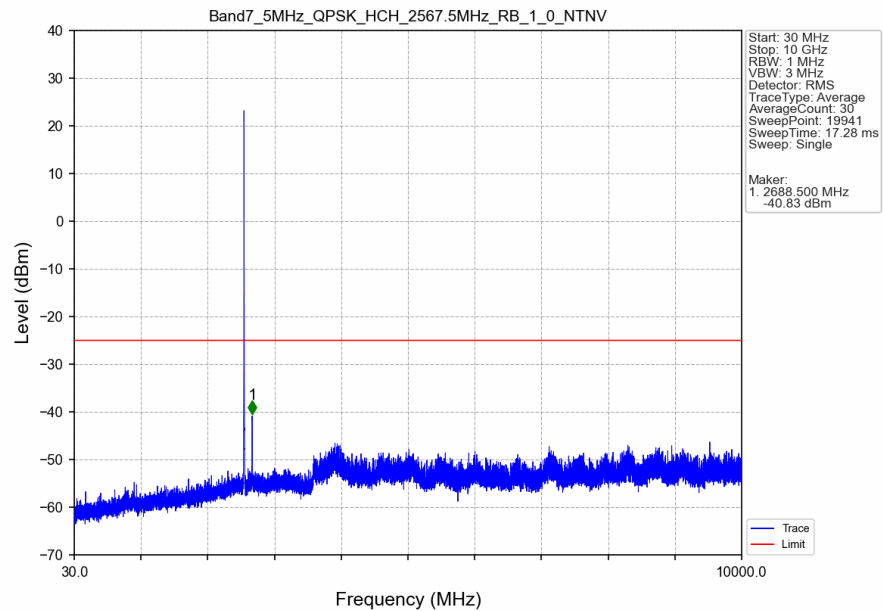
Band7 5MHz QPSK MCH 2535MHz RB 1 0 NTNV



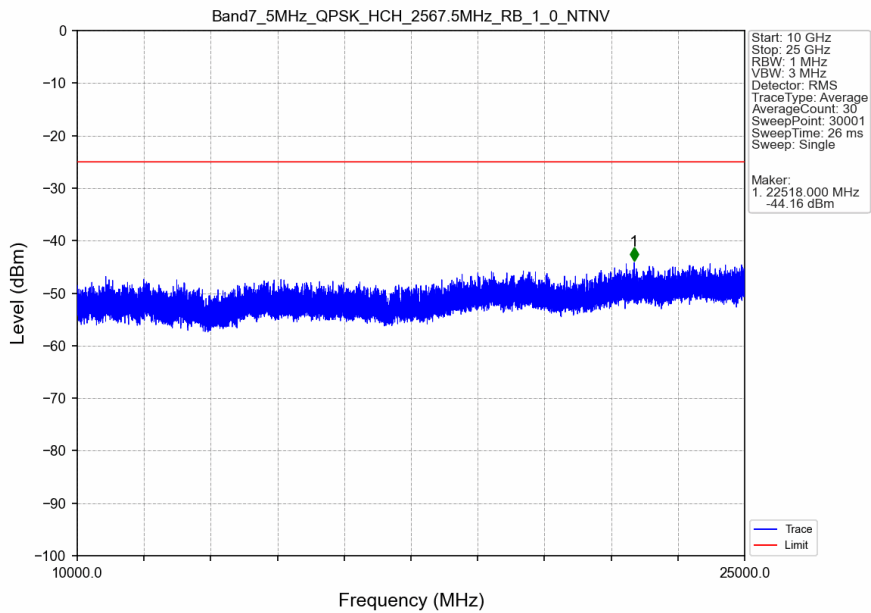
Band7 5MHz QPSK MCH 2535MHz RB 1 0 NTNV



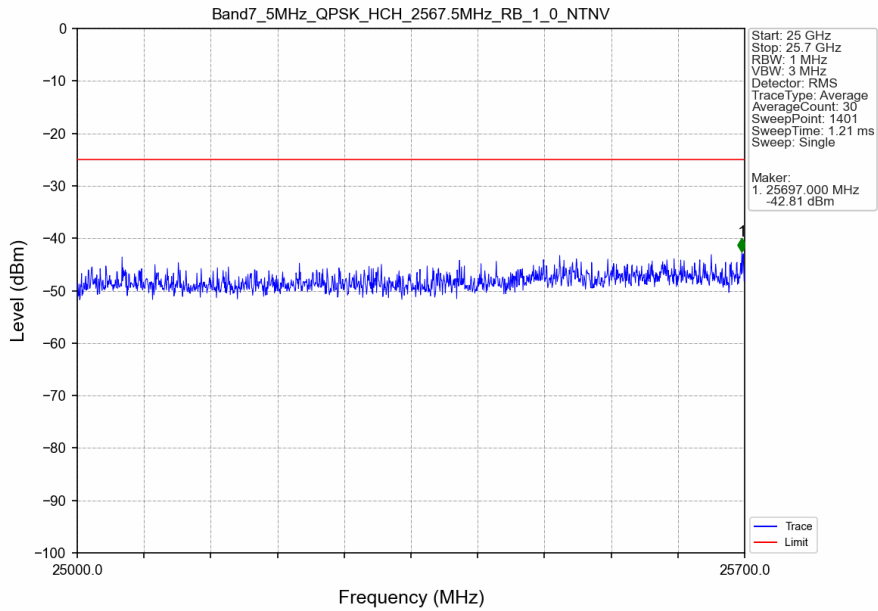
Band7 5MHz QPSK HCH 2567.5MHz RB 1 0 NTN



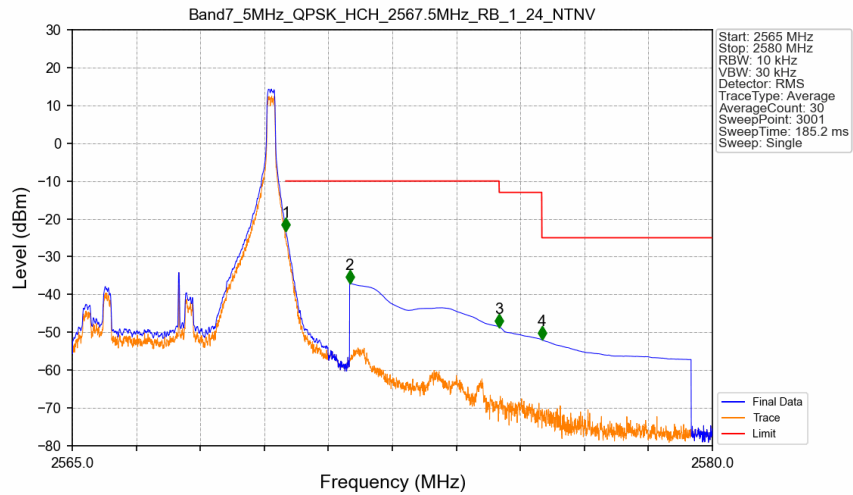
Band7 5MHz QPSK HCH 2567.5MHz RB 1 0 NTN



Band7 5MHz QPSK HCH 2567.5MHz RB 1 0 NTN

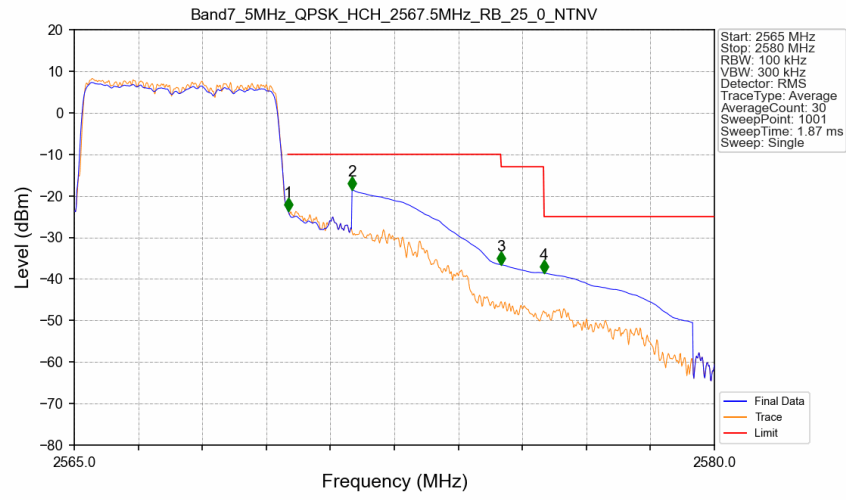


Band7_5MHz_QPSK_HCH_2567.5MHz_RB_1_24 NTN



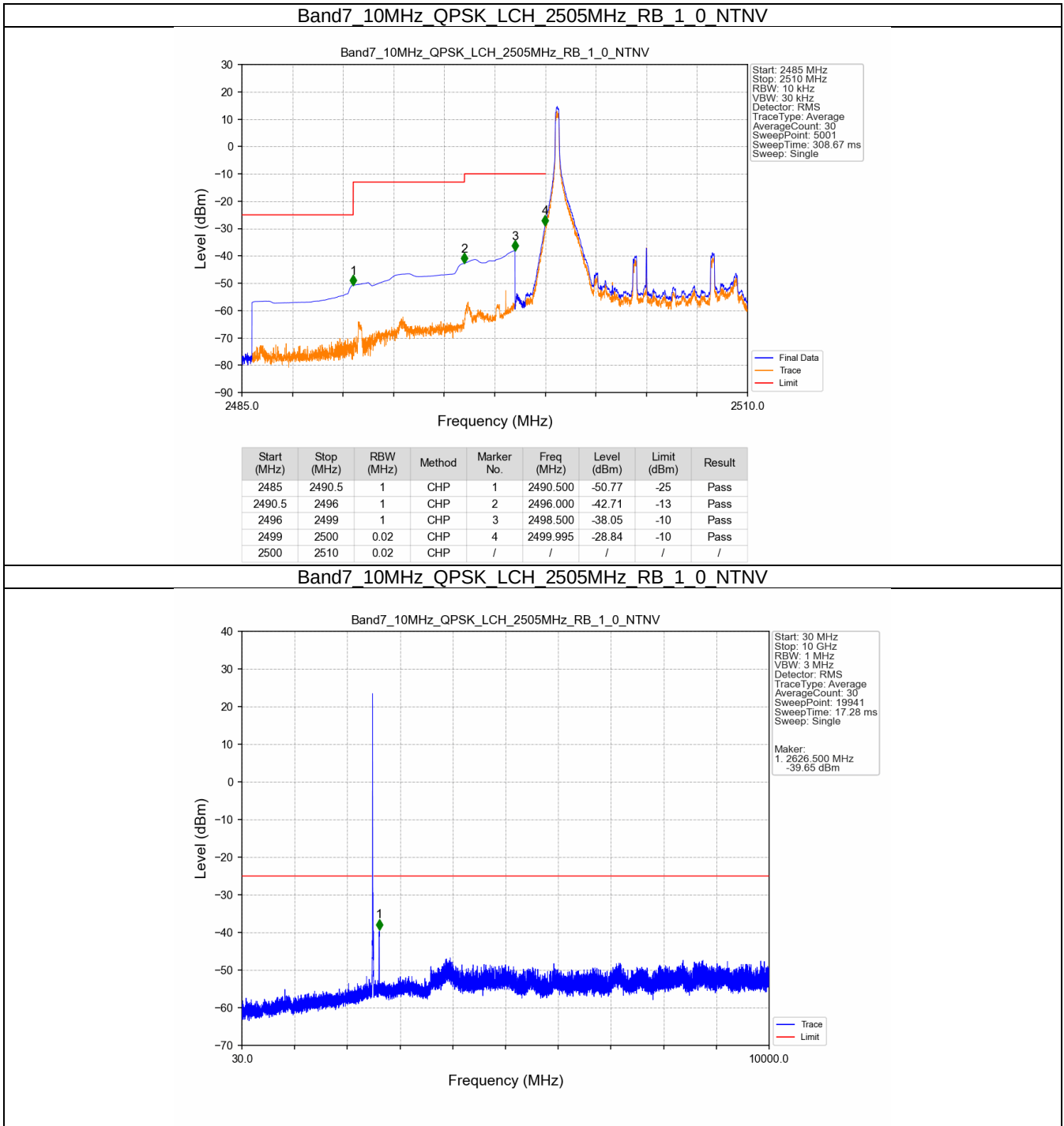
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2565	2570	0.02	CHP	/	/	/	/	/
2570	2571	0.02	CHP	1	2570.005	-23.20	-10	Pass
2571	2575	1	CHP	2	2571.500	-37.04	-10	Pass
2575	2576	1	CHP	3	2575.005	-48.62	-13	Pass
2576	2580	1	CHP	4	2576.005	-51.98	-25	Pass

Band7 5MHz QPSK HCH 2567.5MHz RB 25 0 NTN

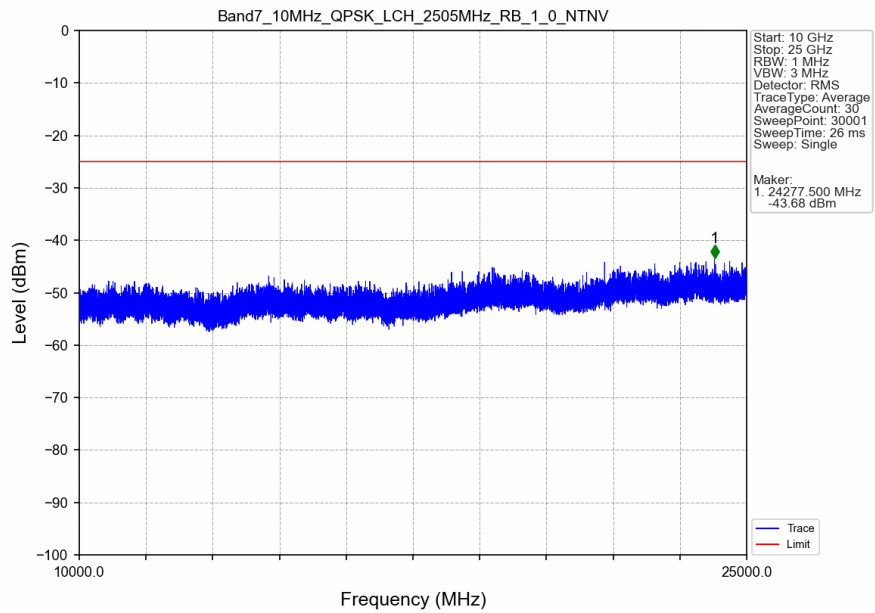


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2565	2570	0.101	CHP	/	/	/	/	/
2570	2571	0.101	CHP	1	2570.010	-23.72	-10	Pass
2571	2575	1	CHP	2	2571.510	-18.49	-10	Pass
2575	2576	1	CHP	3	2575.005	-36.61	-13	Pass
2576	2580	1	CHP	4	2576.010	-38.56	-25	Pass

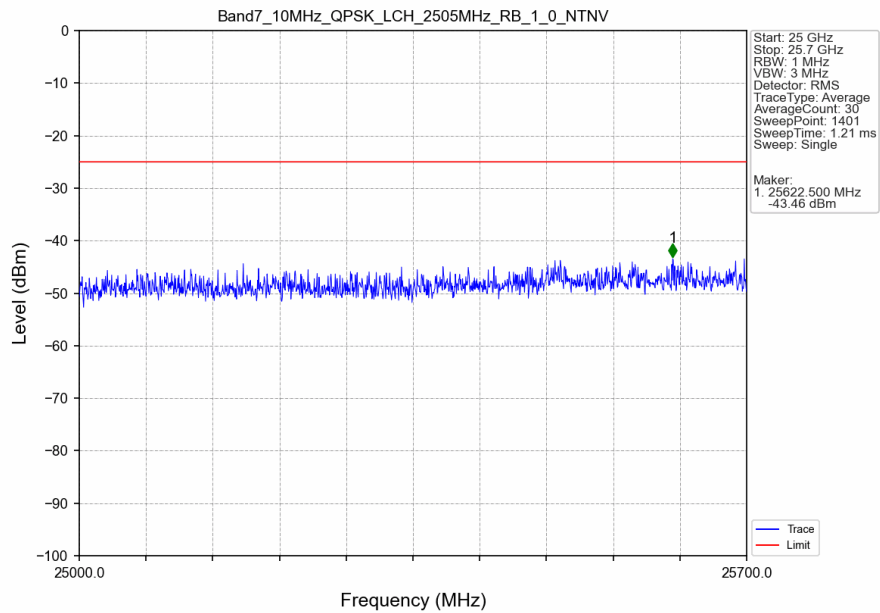
5.2.2 B7_10MHz



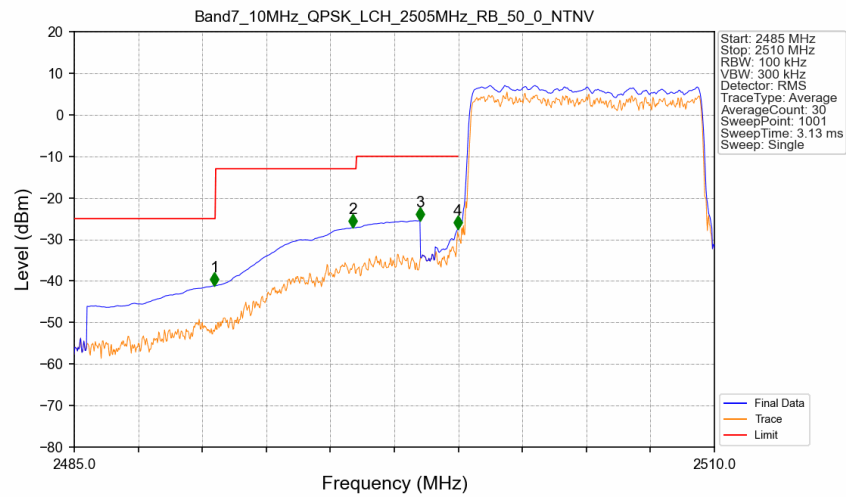
Band7_10MHz_QPSK_LCH_2505MHz_RB_1_0_NTNV



Band7_10MHz_QPSK_LCH_2505MHz_RB_1_0_NTNV

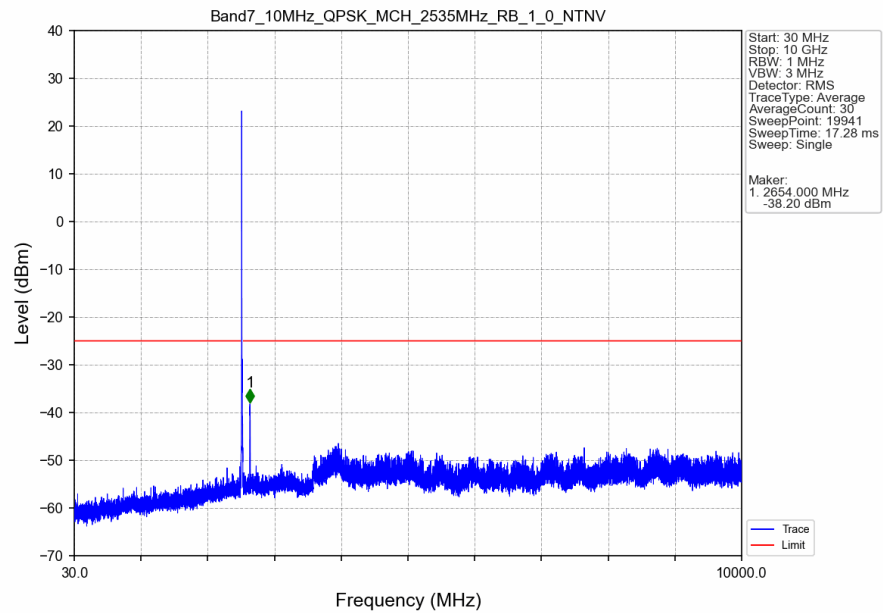


Band7_10MHz_QPSK_LCH_2505MHz_RB_50_0_NTNV

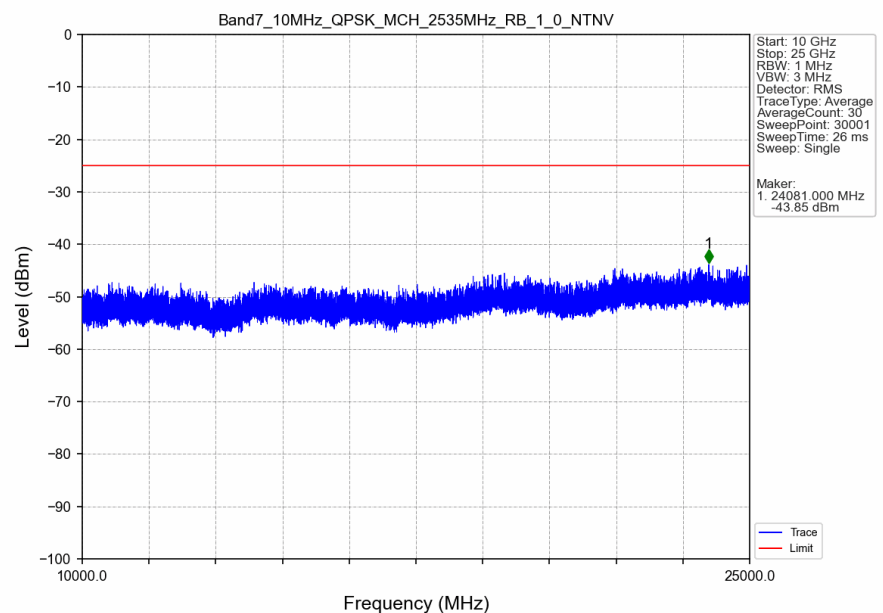


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2490.475	-41.13	-25	Pass
2490.5	2496	1	CHP	2	2495.875	-27.14	-13	Pass
2496	2499	1	CHP	3	2498.500	-25.46	-10	Pass
2499	2500	0.199	CHP	4	2499.975	-27.51	-10	Pass
2500	2510	0.199	CHP	/	/	/	/	/

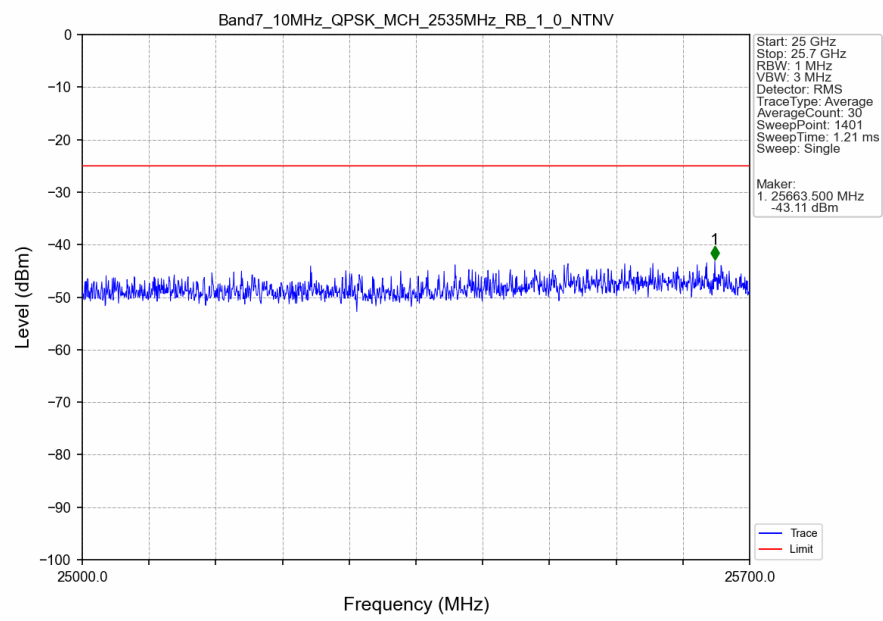
Band7_10MHz_QPSK_MCH_2535MHz_RB_1_0_NTNV



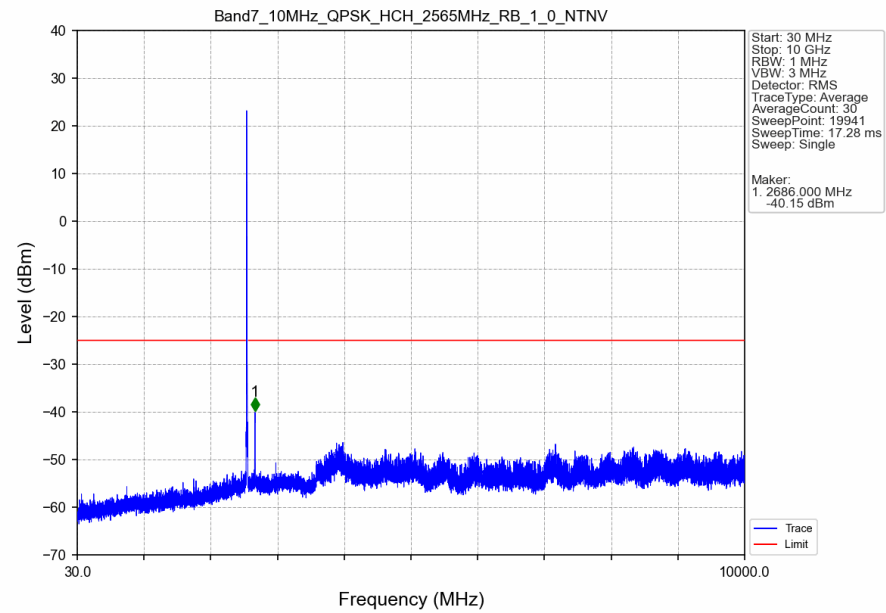
Band7 10MHz QPSK MCH 2535MHz RB 1 0 NTN



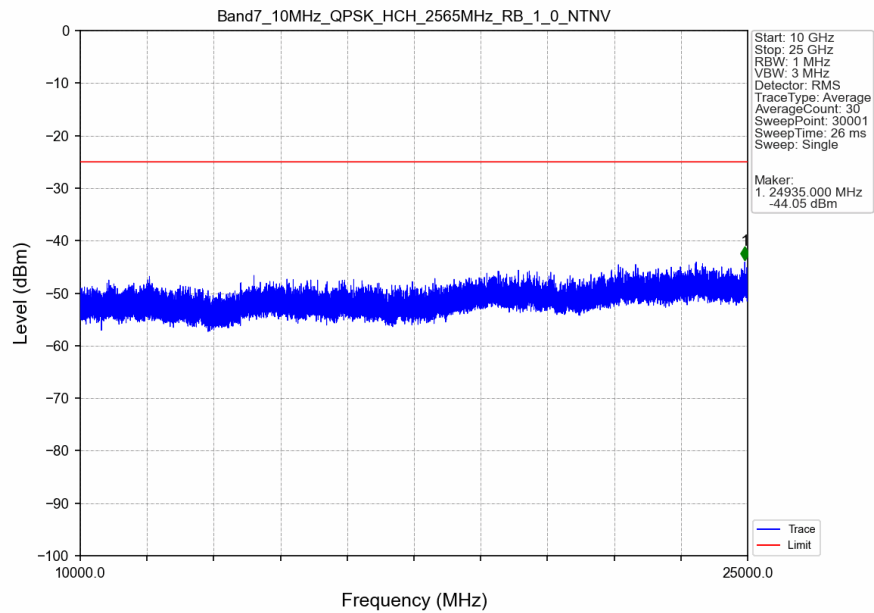
Band7 10MHz QPSK MCH 2535MHz RB 1 0 NTN



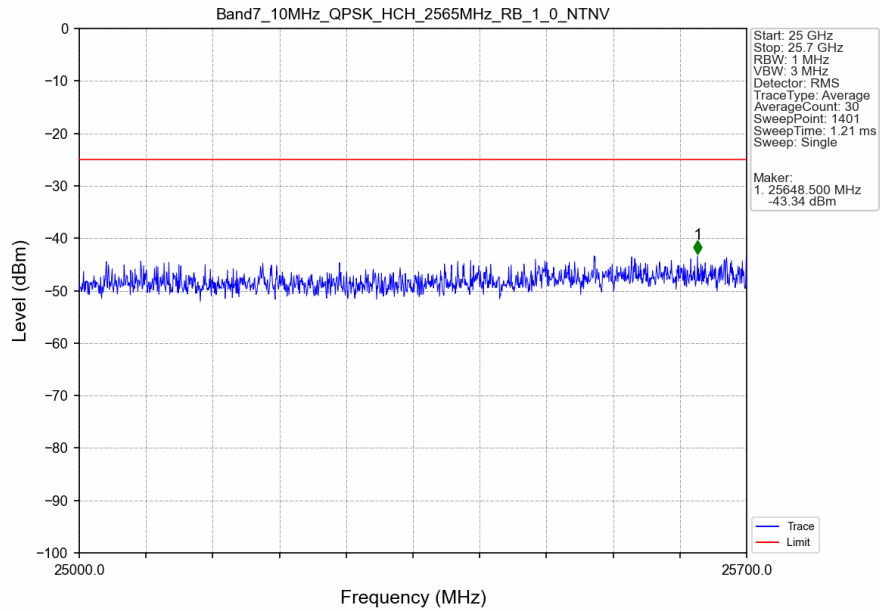
Band7 10MHz QPSK HCH 2565MHz RB 1 0 NTN



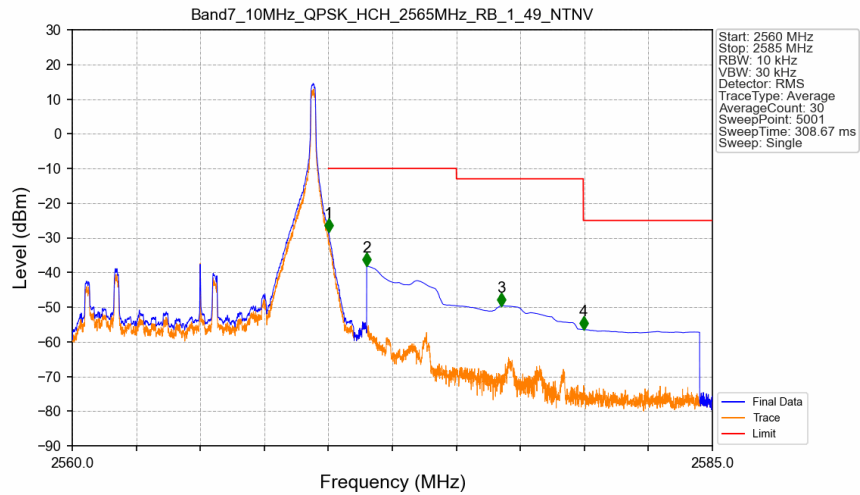
Band7 10MHz QPSK HCH 2565MHz RB 1 0 NTN



Band7 10MHz QPSK HCH 2565MHz RB 1 0 NTN

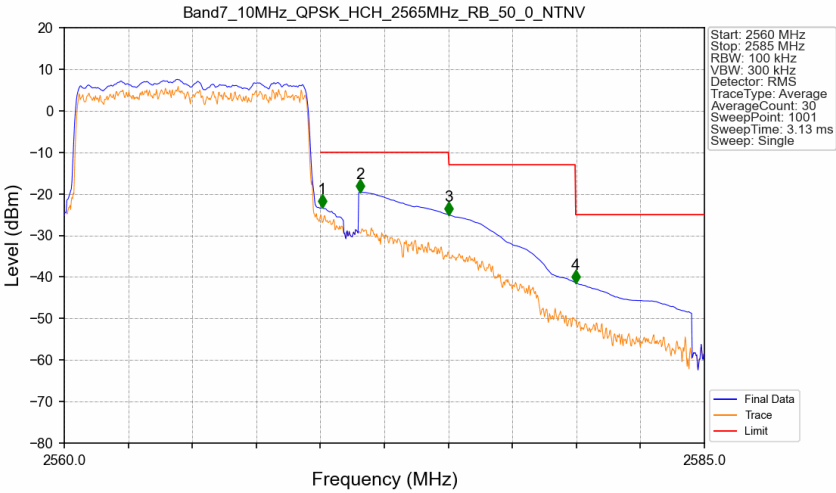


Band7 10MHz QPSK HCH 2565MHz RB 1 49 NTN



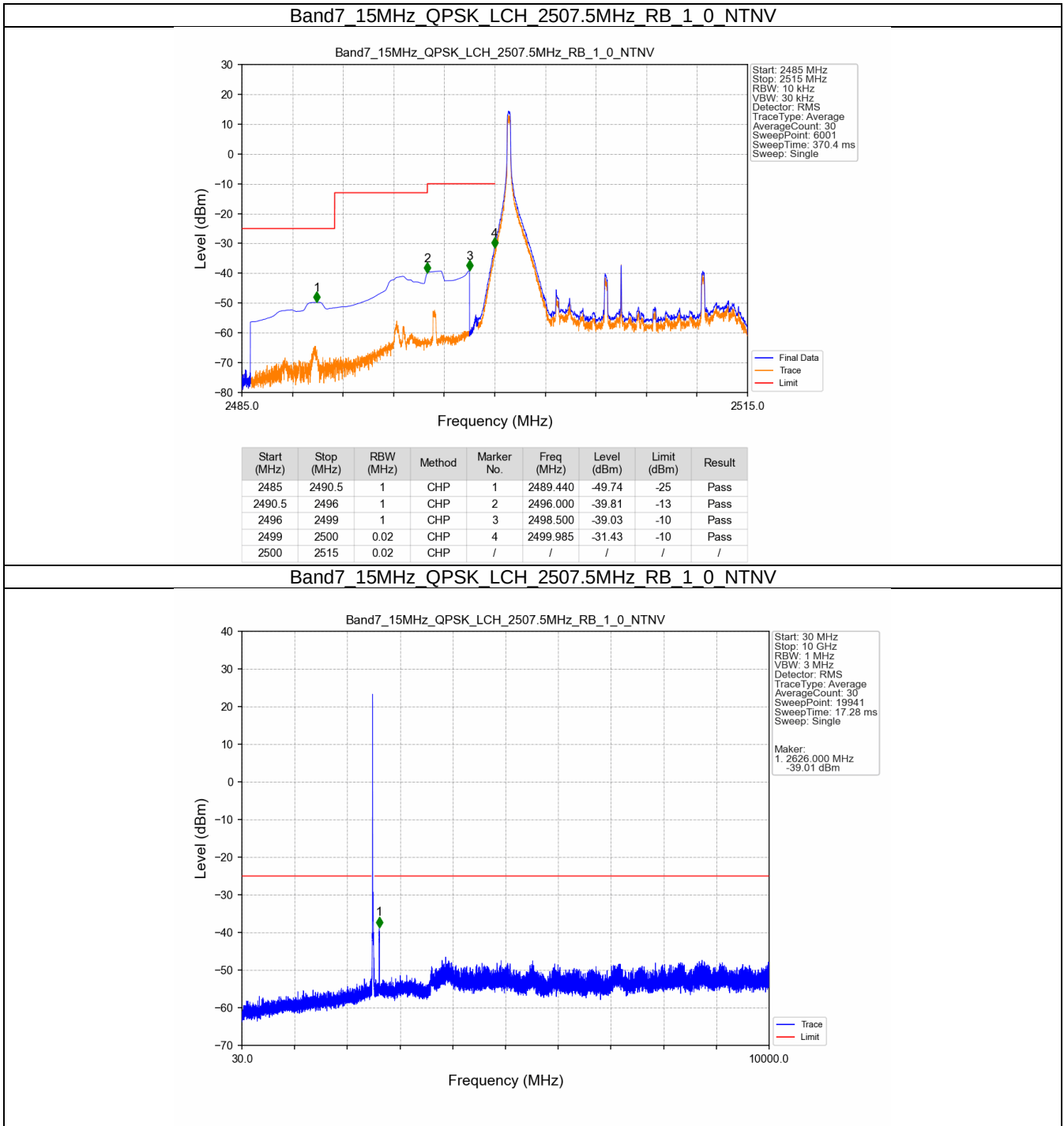
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2560	2570	0.02	CHP	/	/	/	/	/
2570	2571	0.02	CHP	1	2570.015	-28.38	-10	Pass
2571	2575	1	CHP	2	2571.500	-38.13	-10	Pass
2575	2579.957	1	CHP	3	2576.760	-49.62	-13	Pass
2579.957	2585	1	CHP	4	2579.970	-56.45	-25	Pass

Band7 10MHz QPSK HCH 2565MHz RB 50 0 NTNV

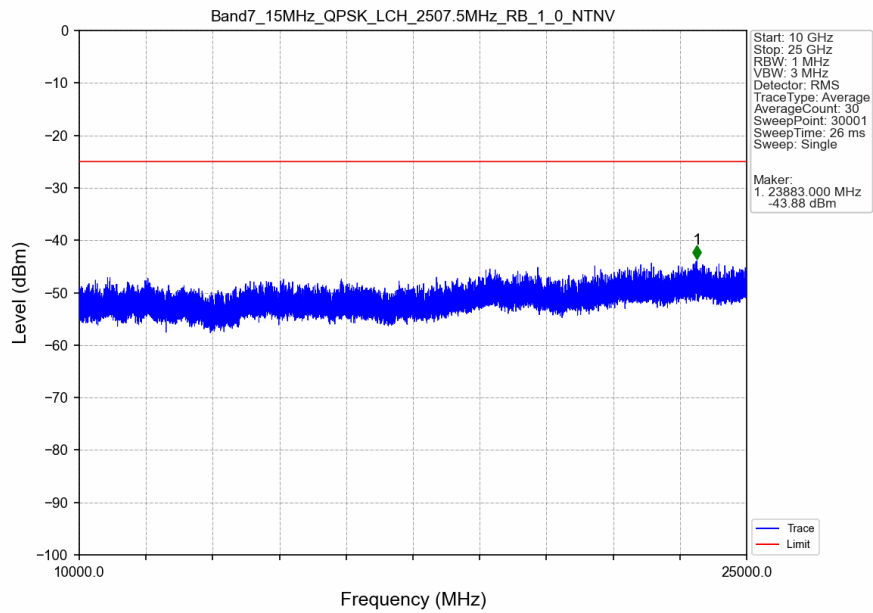


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2560	2570	0.199	CHP	/	/	/	/	/
2570	2571	0.199	CHP	1	2570.075	-23.23	-10	Pass
2571	2575	1	CHP	2	2571.550	-19.64	-10	Pass
2575	2579.957	1	CHP	3	2575.025	-25.05	-13	Pass
2579.957	2585	1	CHP	4	2579.975	-41.44	-25	Pass

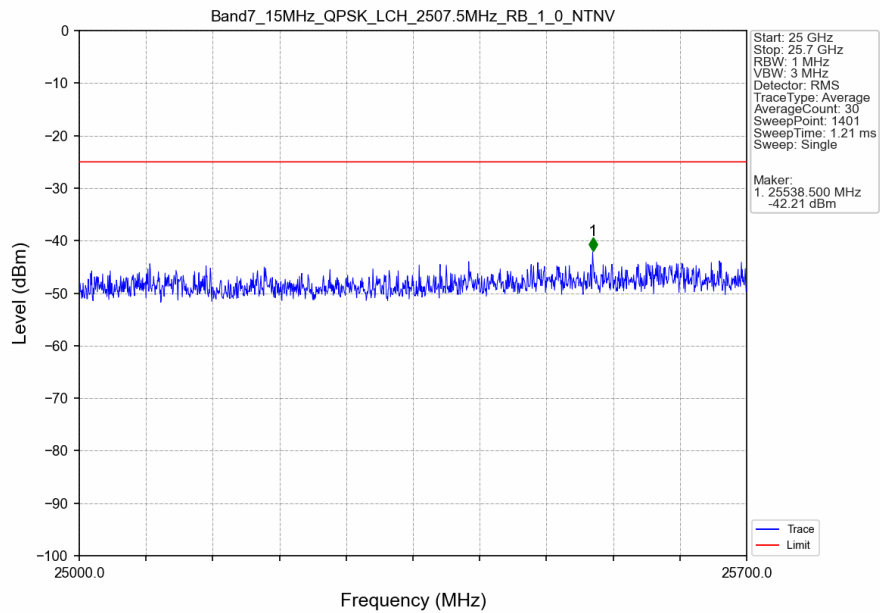
5.2.3 B7_15MHz



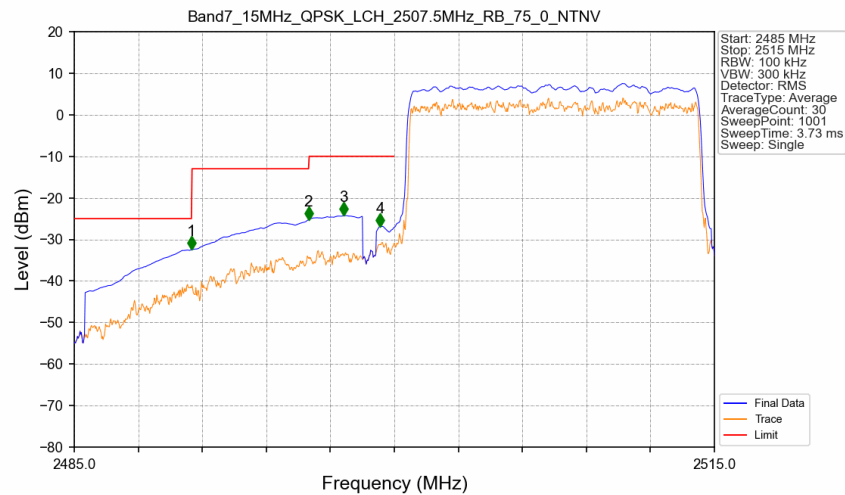
Band7 15MHz QPSK LCH 2507.5MHz RB 1 0 NTV



Band7 15MHz QPSK LCH 2507.5MHz RB 1 0 NTV

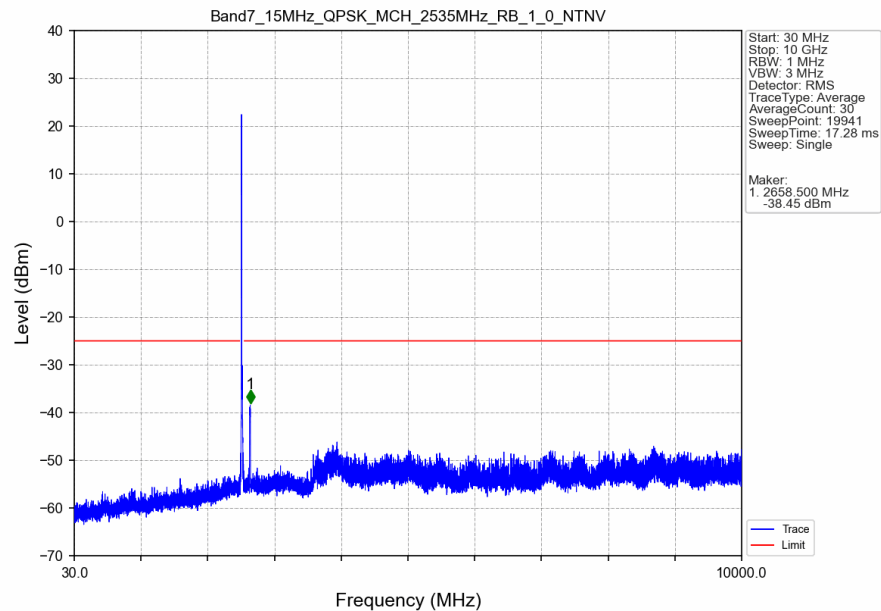


Band7_15MHz_QPSK_LCH_2507.5MHz_RB_75_0_NTNV

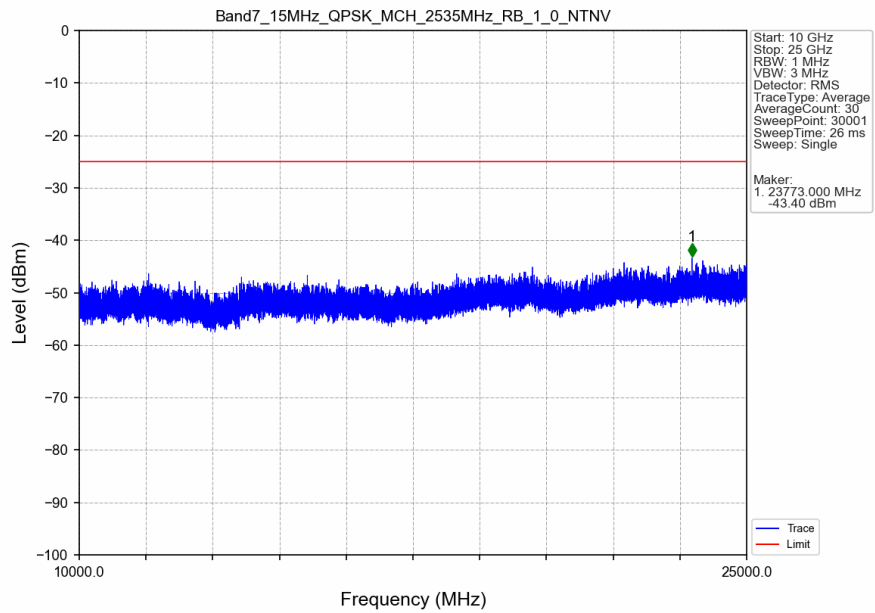


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2490.490	-32.49	-25	Pass
2490.5	2496	1	CHP	2	2495.980	-25.28	-13	Pass
2496	2499	1	CHP	3	2497.630	-24.27	-10	Pass
2499	2500	0.297	CHP	4	2499.340	-26.86	-10	Pass
2500	2515	0.297	CHP	/	/	/	/	/

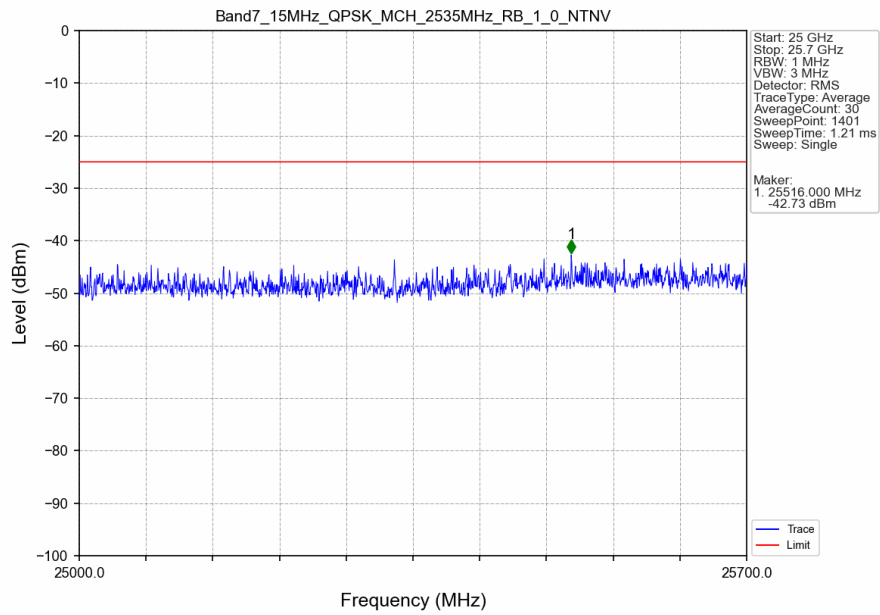
Band7_15MHz_QPSK_MCH_2535MHz_RB_1_0_NTNV



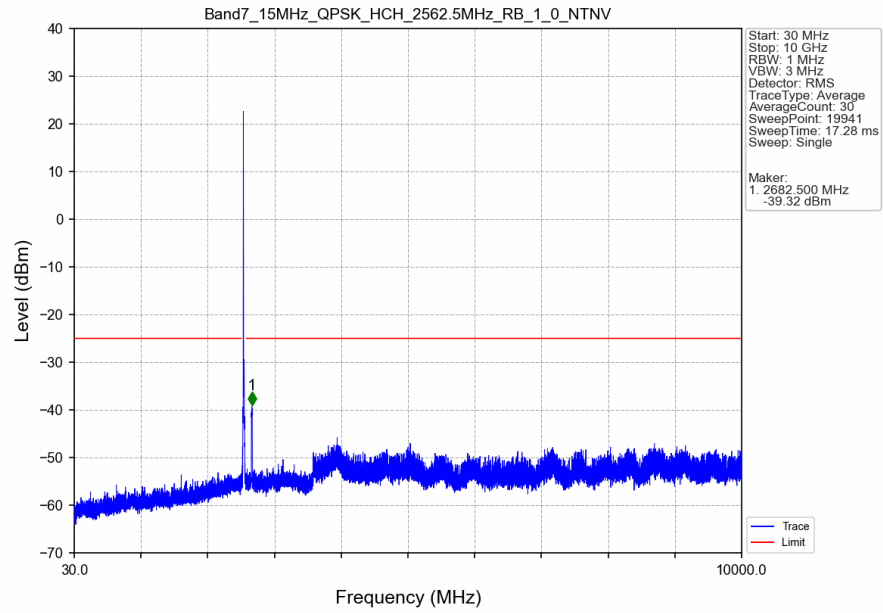
Band7 15MHz QPSK MCH 2535MHz RB 1 0 NTN



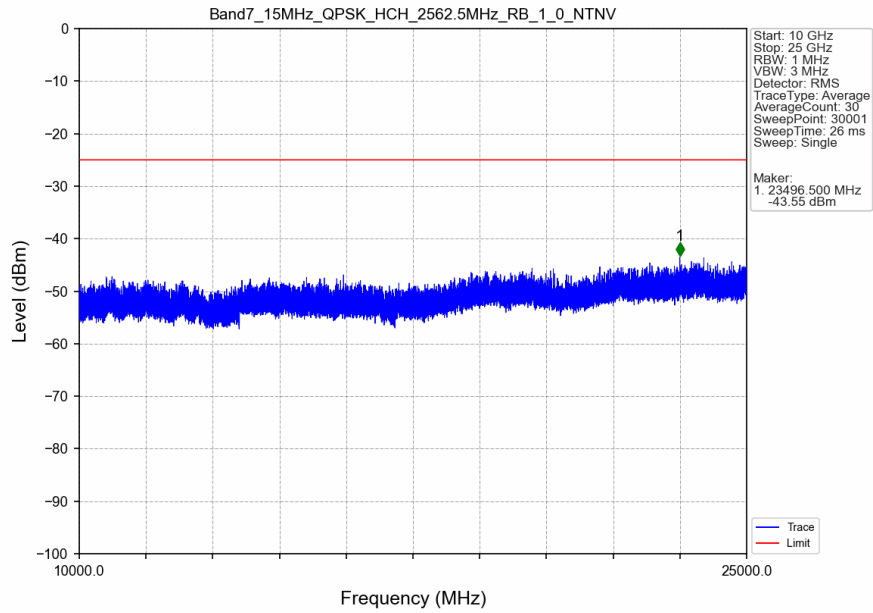
Band7 15MHz QPSK MCH 2535MHz RB 1 0 NTN



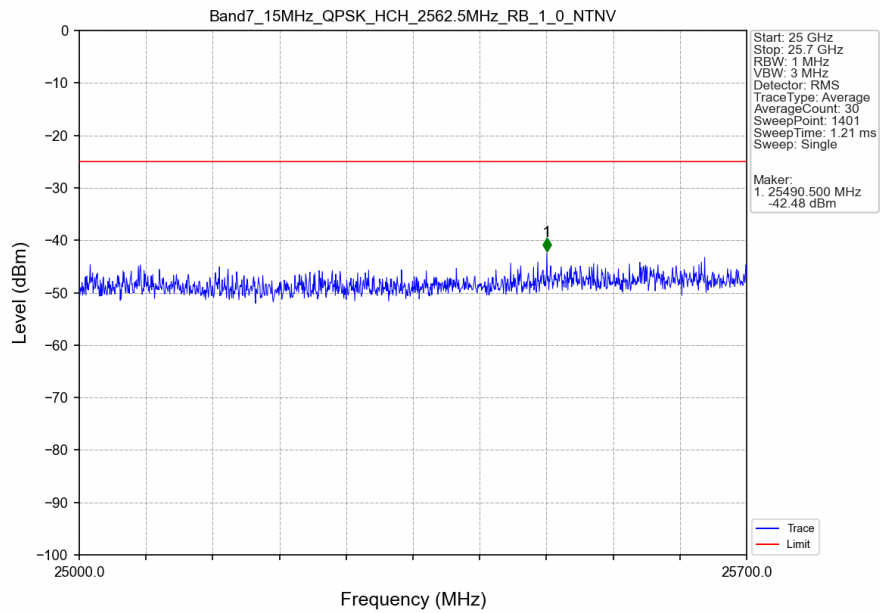
Band7_15MHz_QPSK_HCH_2562.5MHz_RB_1_0_NTNV



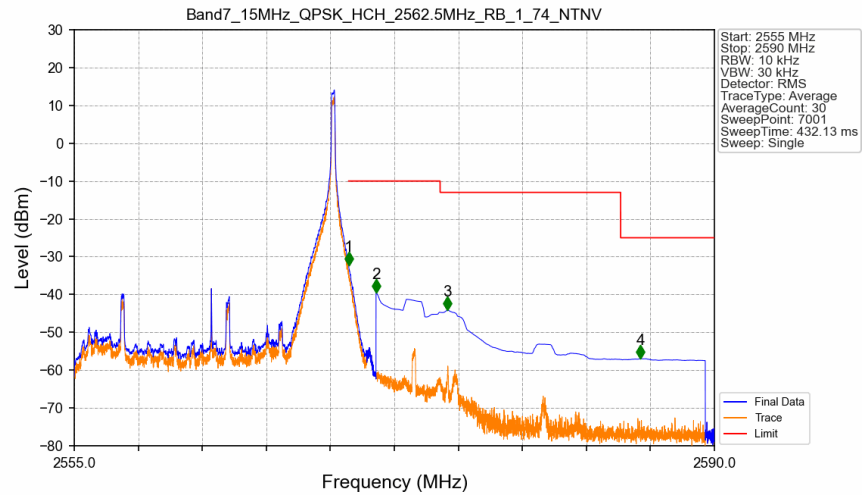
Band7_15MHz_QPSK_HCH_2562.5MHz_RB_1_0_NTNV



Band7 15MHz QPSK HCH 2562.5MHz RB 1 0 NTNV

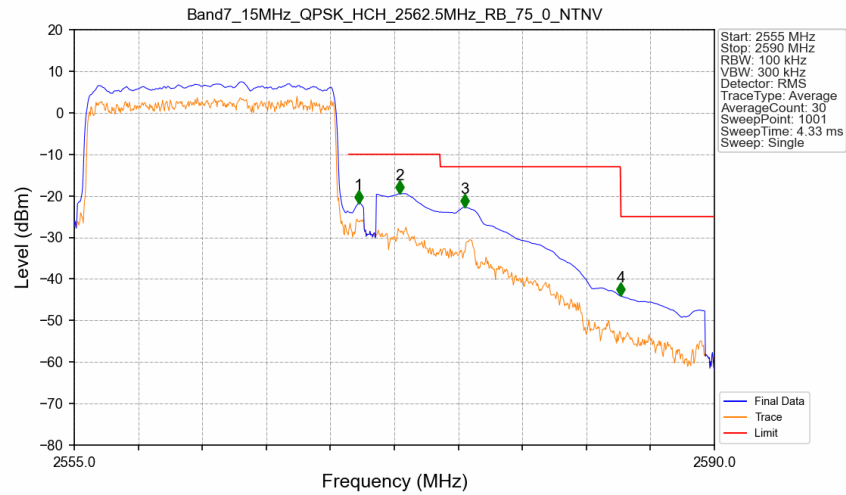


Band7 15MHz QPSK HCH 2562.5MHz RB 1 74 NTNV



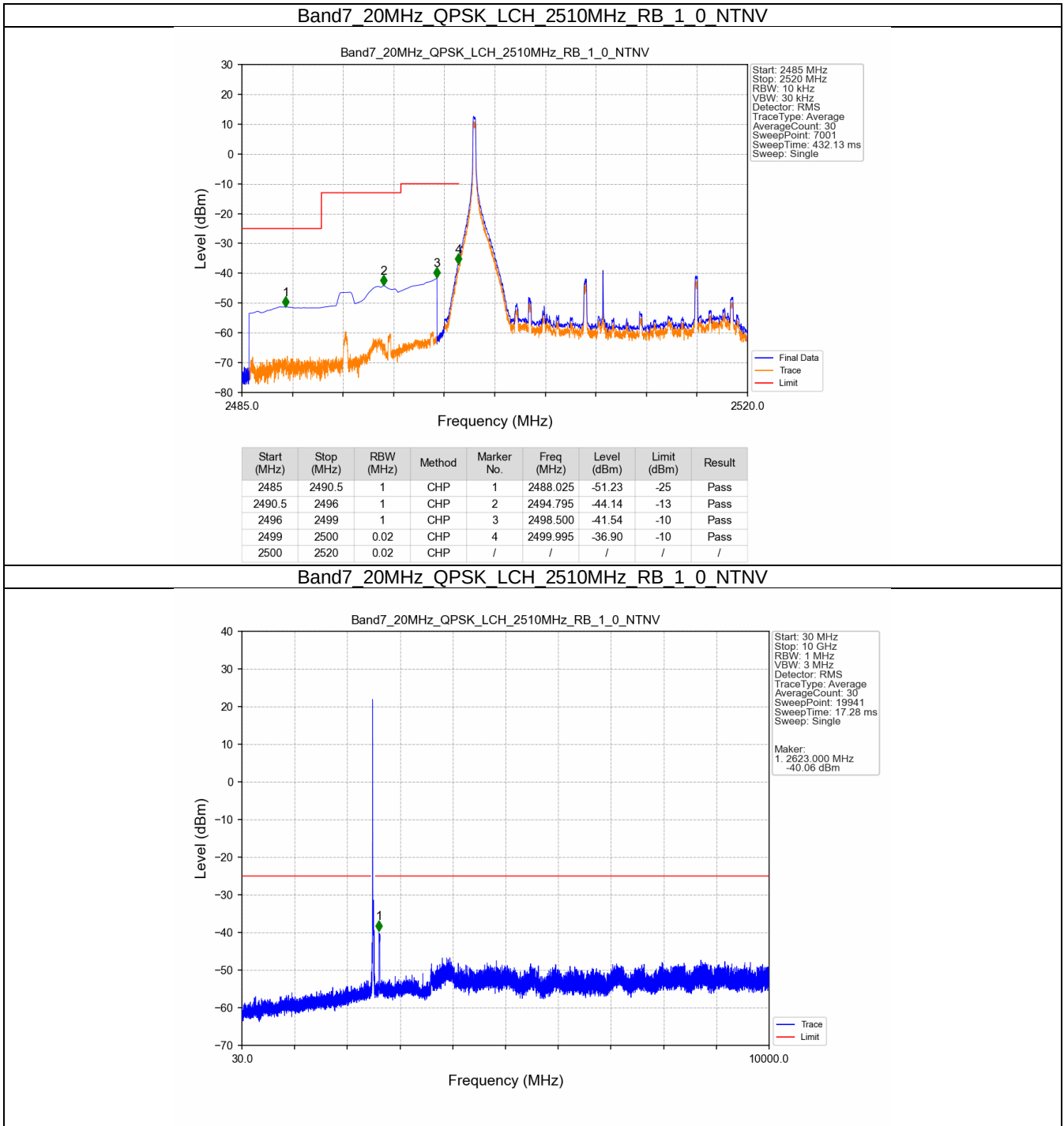
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2555	2570	0.02	CHP	/	/	/	/	/
2570	2571	0.02	CHP	1	2570.005	-32.34	-10	Pass
2571	2575	1	CHP	2	2571.500	-39.43	-10	Pass
2575	2584.871	1	CHP	3	2575.410	-44.17	-13	Pass
2584.871	2590	1	CHP	4	2585.965	-56.99	-25	Pass

Band7_15MHz_QPSK_HCH_2562.5MHz_RB_75_0_NTNV

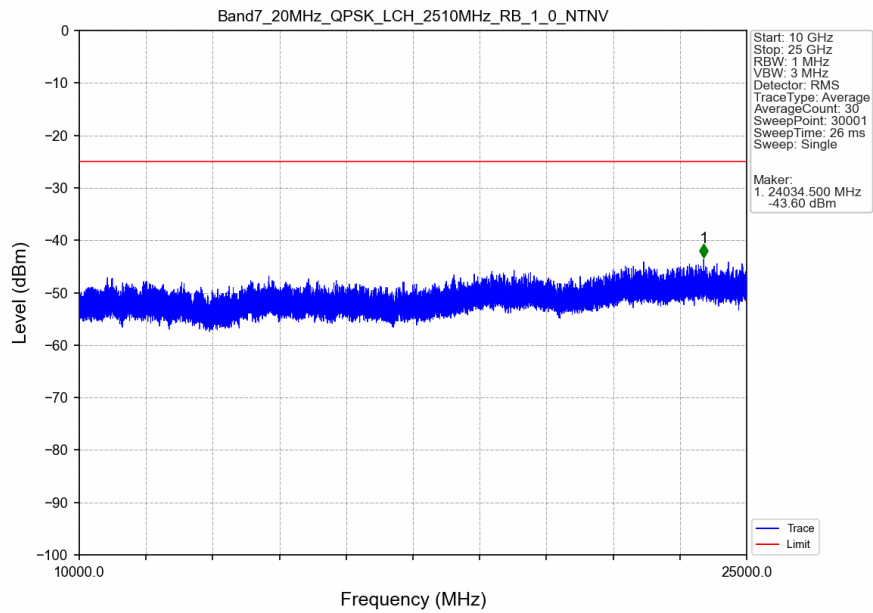


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2555	2570	0.297	CHP	/	/	/	/	/
2570	2571	0.297	CHP	1	2570.540	-21.78	-10	Pass
2571	2575	1	CHP	2	2572.780	-19.47	-10	Pass
2575	2584.871	1	CHP	3	2576.350	-22.70	-13	Pass
2584.871	2590	1	CHP	4	2584.890	-44.13	-25	Pass

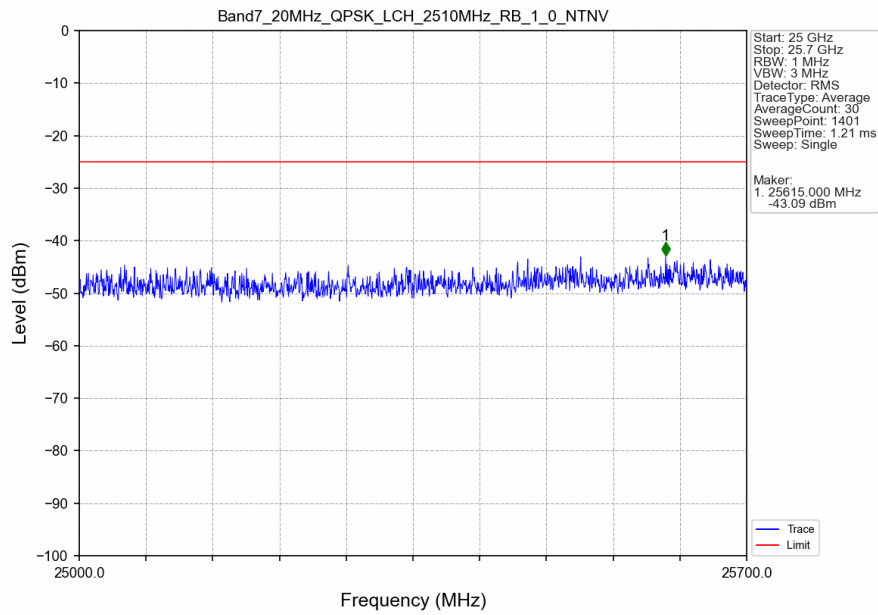
5.2.4 B7_20MHz



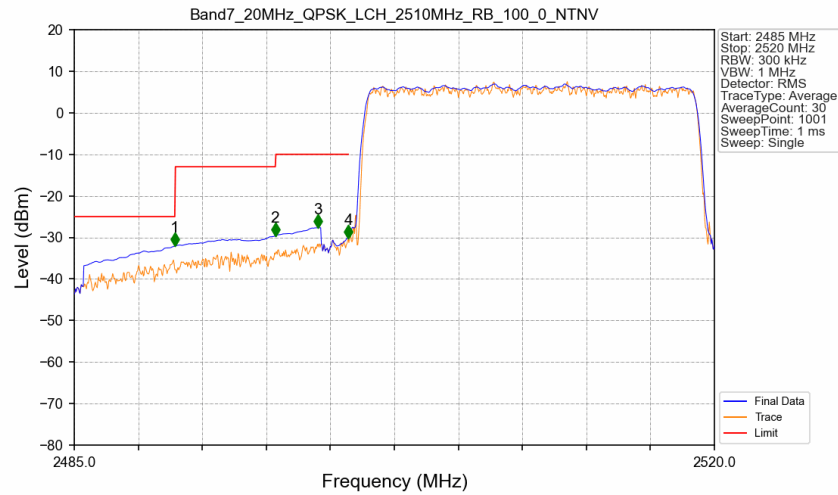
Band7 20MHz QPSK LCH 2510MHz RB 1 0 NTN



Band7 20MHz QPSK LCH 2510MHz RB 1 0 NTN

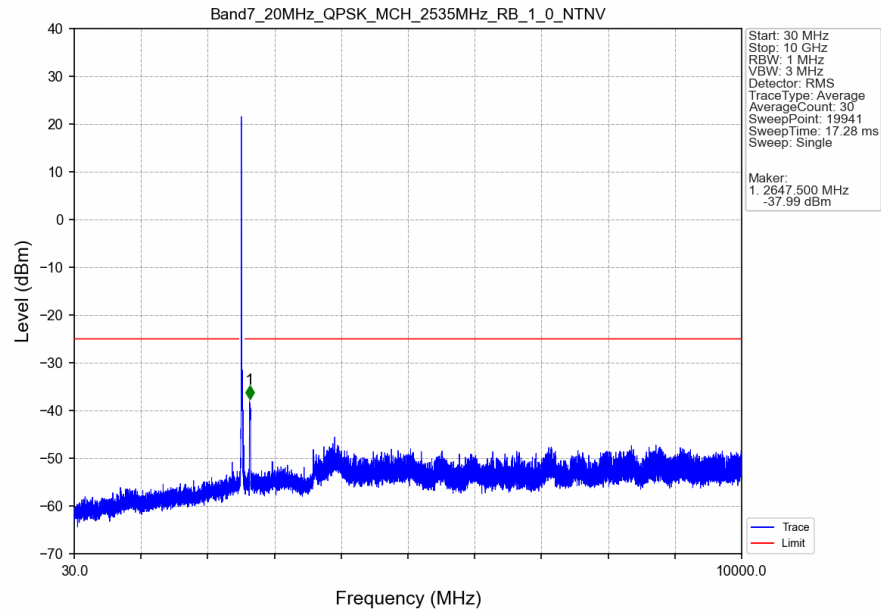


Band7 20MHz QPSK LCH 2510MHz RB 100 0 NTNV

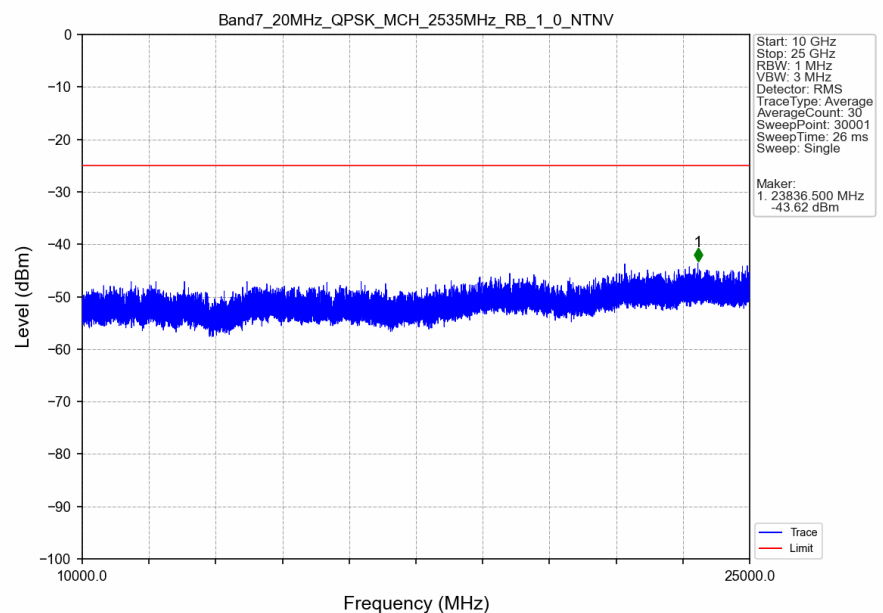


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2490.495	-32.12	-25	Pass
2490.5	2496	1	CHP	2	2495.990	-29.65	-13	Pass
2496	2499	1	CHP	3	2498.335	-27.65	-10	Pass
2499	2500	0.397	CHP	4	2499.980	-30.18	-10	Pass
2500	2520	0.397	CHP	/	/	/	/	/

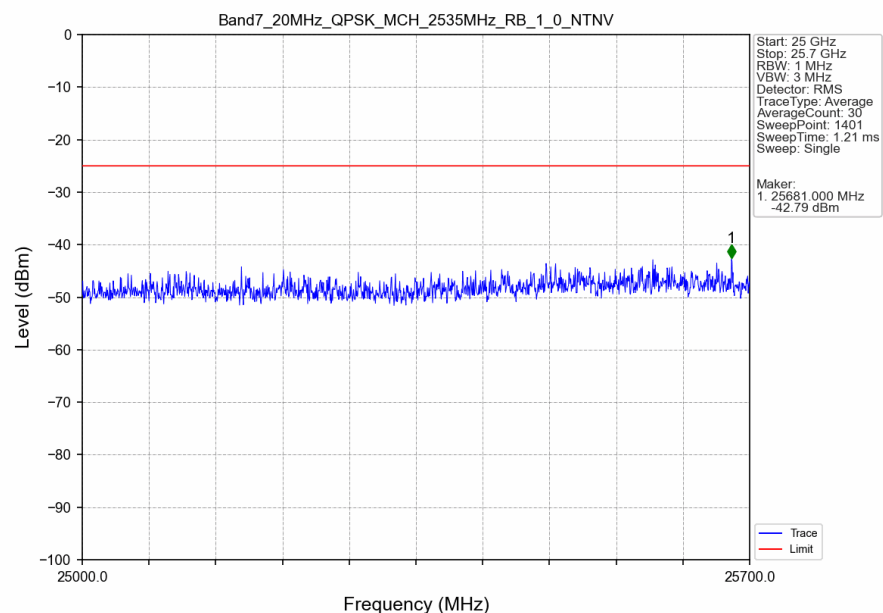
Band7 20MHz QPSK MCH 2535MHz RB 1 0 NTNV



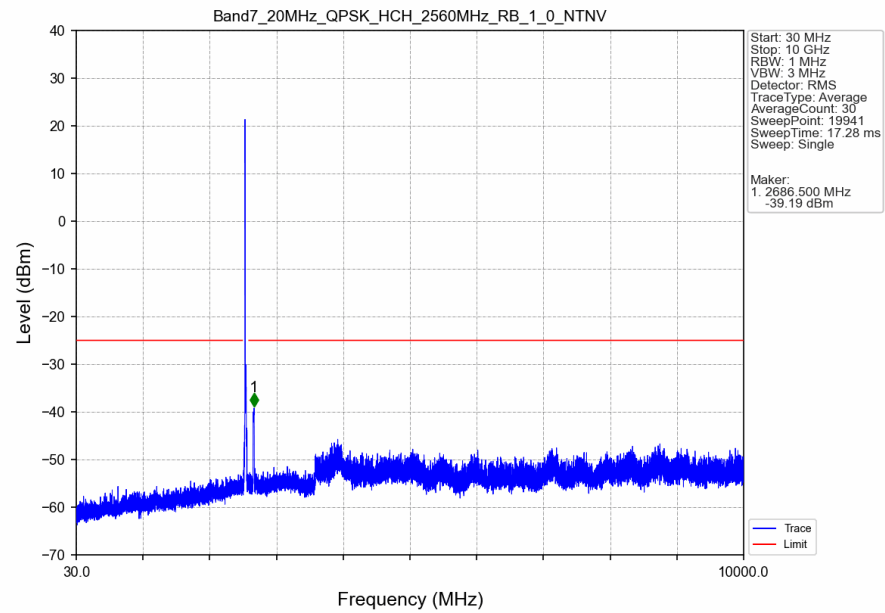
Band7 20MHz QPSK MCH 2535MHz RB 1 0 NTN



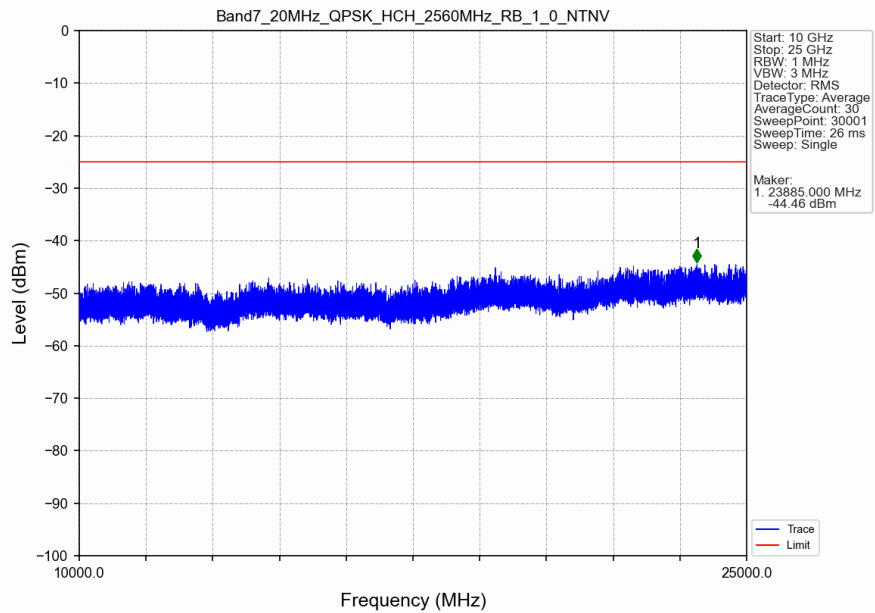
Band7 20MHz QPSK MCH 2535MHz RB 1 0 NTN



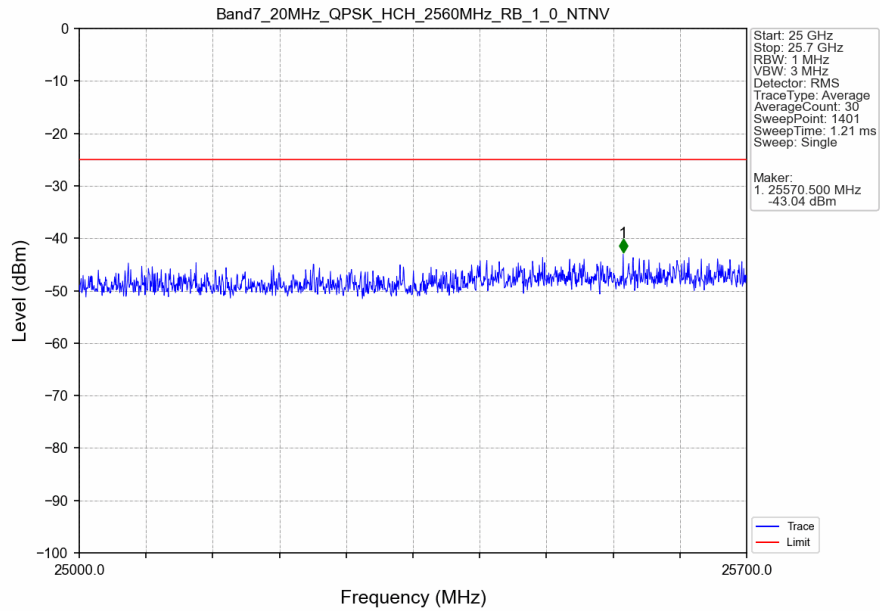
Band7 20MHz QPSK HCH 2560MHz RB 1 0 NTN



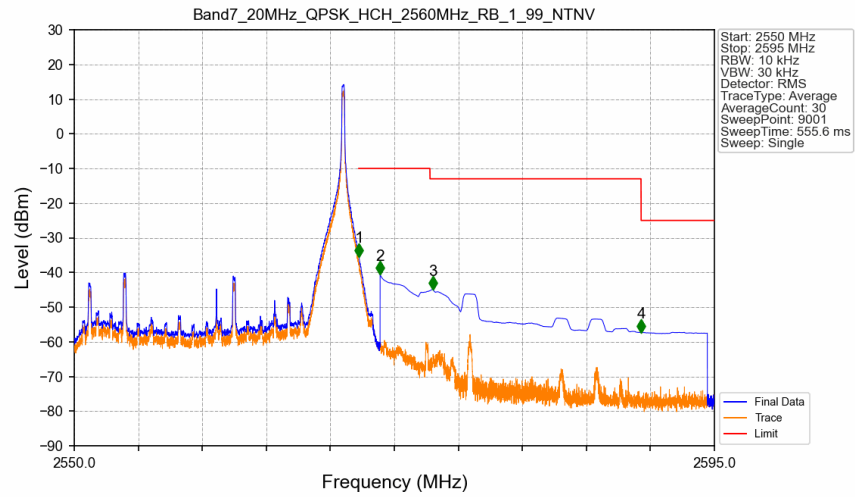
Band7 20MHz QPSK HCH 2560MHz RB 1 0 NTN



Band7 20MHz QPSK HCH 2560MHz RB 1 0 NTN

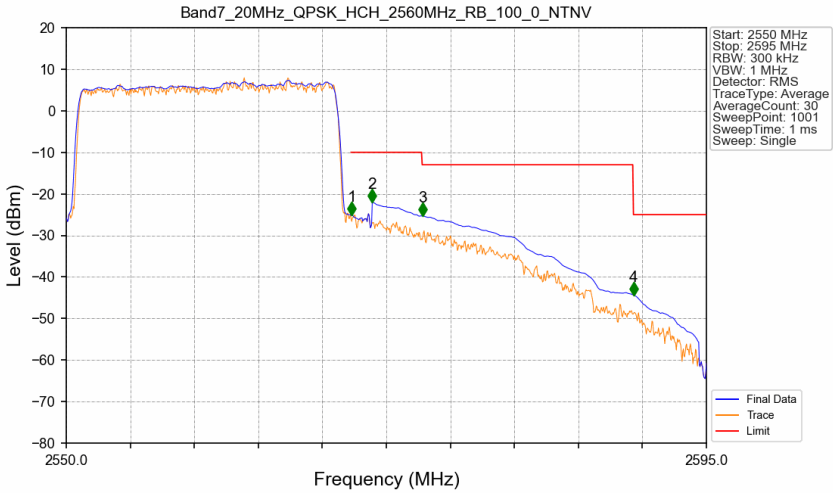


Band7 20MHz QPSK HCH 2560MHz RB 1 99 NTN



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	2570.010	-35.40	-10	Pass
2571	2575	1	CHP	2	2571.500	-40.59	-10	Pass
2575	2589.84	1	CHP	3	2575.195	-44.81	-13	Pass
2589.84	2595	1	CHP	4	2589.855	-57.26	-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	0.397	CHP	/	/	/	/	/
2570	2571	0.397	CHP	1	2570.070	-25.09	-10	Pass
2571	2575	1	CHP	2	2571.510	-22.04	-10	Pass
2575	2589.84	1	CHP	3	2575.065	-25.29	-13	Pass
2589.84	2595	1	CHP	4	2589.870	-44.35	-25	Pass

6. Field Strength of Spurious Radiation

LTE Band 7 ANT31-Middle channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
5052.0	-61.21	-25	-36.21	-66.79	4.59	10.17	Horizontal	Pass
7578.0	-60.08	-25	-35.08	-66.96	4.95	11.83	Horizontal	Pass
12614.61	-48.89	-25	-23.89	-56.22	5.96	13.29	Horizontal	Pass
5052.0	-61.9	-25	-36.9	-67.48	4.59	10.17	Vertical	Pass
7578.0	-59.46	-25	-34.46	-66.34	4.95	11.83	Vertical	Pass
12614.61	-45.29	-25	-20.29	-52.62	5.96	13.29	Vertical	Pass

LTE Band 7 ANT31-High channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
5102.0	-60.67	-25	-35.67	-66.27	4.6	10.2	Horizontal	Pass
7653.0	-59.78	-25	-34.78	-66.75	4.95	11.92	Horizontal	Pass
12761.3	-50.38	-25	-25.38	-57.79	5.97	13.38	Horizontal	Pass
5102.0	-59.62	-25	-34.62	-65.22	4.6	10.2	Vertical	Pass
7653.0	-59.95	-25	-34.95	-66.92	4.95	11.92	Vertical	Pass
12761.3	-46.9	-25	-21.9	-54.31	5.97	13.38	Vertical	Pass

LTE Band 38 ANT31-Low channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
5142.0	-58.75	-25	-33.75	-64.36	4.62	10.23	Horizontal	Pass
7713.0	-59.5	-25	-34.5	-66.53	4.96	11.99	Horizontal	Pass
12872.44	-48.67	-25	-23.67	-56.14	5.97	13.44	Horizontal	Pass
5142.0	-58.88	-25	-33.88	-64.49	4.62	10.23	Vertical	Pass
7713.0	-59.6	-25	-34.6	-66.63	4.96	11.99	Vertical	Pass
12872.44	-44.16	-25	-19.16	-51.63	5.97	13.44	Vertical	Pass