

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	
64QAM	2502.5	1	0	21.89	4.00	25.89	<=33.01	Pass
			13	21.98	4.00	25.98	<=33.01	Pass
			24	21.95	4.00	25.95	<=33.01	Pass
		12	0	20.97	4.00	24.97	<=33.01	Pass
			6	21.02	4.00	25.02	<=33.01	Pass
			13	20.97	4.00	24.97	<=33.01	Pass
		25	0	21.08	4.00	25.08	<=33.01	Pass
	2535	1	0	22.05	4.00	26.05	<=33.01	Pass
			13	22.16	4.00	26.16	<=33.01	Pass
			24	22.09	4.00	26.09	<=33.01	Pass
		12	0	20.98	4.00	24.98	<=33.01	Pass
			6	21.03	4.00	25.03	<=33.01	Pass
			13	21.00	4.00	25.00	<=33.01	Pass
		25	0	21.04	4.00	25.04	<=33.01	Pass
	2567.5	1	0	21.99	4.00	25.99	<=33.01	Pass
			13	22.02	4.00	26.02	<=33.01	Pass
			24	21.98	4.00	25.98	<=33.01	Pass
		12	0	20.99	4.00	24.99	<=33.01	Pass
			6	21.04	4.00	25.04	<=33.01	Pass
			13	21.01	4.00	25.01	<=33.01	Pass
		25	0	20.90	4.00	24.90	<=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	
64QAM	2505	1	0	22.20	4.00	26.20	<=33.01	Pass
			25	22.18	4.00	26.18	<=33.01	Pass
			49	22.13	4.00	26.13	<=33.01	Pass
		25	0	21.07	4.00	25.07	<=33.01	Pass
			13	21.09	4.00	25.09	<=33.01	Pass
			25	21.02	4.00	25.02	<=33.01	Pass
		50	0	21.02	4.00	25.02	<=33.01	Pass
	2535	1	0	21.99	4.00	25.99	<=33.01	Pass
			25	21.98	4.00	25.98	<=33.01	Pass
			49	22.02	4.00	26.02	<=33.01	Pass
		25	0	21.09	4.00	25.09	<=33.01	Pass
			13	21.08	4.00	25.08	<=33.01	Pass
			25	21.17	4.00	25.17	<=33.01	Pass
		50	0	21.08	4.00	25.08	<=33.01	Pass
	2565	1	0	21.70	4.00	25.70	<=33.01	Pass
			25	21.66	4.00	25.66	<=33.01	Pass
			49	21.64	4.00	25.64	<=33.01	Pass

		25	0	21.01	4.00	25.01	<=33.01	Pass
			13	21.01	4.00	25.01	<=33.01	Pass
			25	20.98	4.00	24.98	<=33.01	Pass
		50	0	20.94	4.00	24.94	<=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	
64QAM	2507.5	1	0	22.25	4.00	26.25	<=33.01	Pass
			38	22.22	4.00	26.22	<=33.01	Pass
			74	22.14	4.00	26.14	<=33.01	Pass
		36	0	21.15	4.00	25.15	<=33.01	Pass
			18	21.07	4.00	25.07	<=33.01	Pass
			39	20.99	4.00	24.99	<=33.01	Pass
		75	0	20.98	4.00	24.98	<=33.01	Pass
	2535	1	0	21.99	4.00	25.99	<=33.01	Pass
			38	21.94	4.00	25.94	<=33.01	Pass
			74	21.99	4.00	25.99	<=33.01	Pass
		36	0	21.05	4.00	25.05	<=33.01	Pass
			18	21.09	4.00	25.09	<=33.01	Pass
			39	21.08	4.00	25.08	<=33.01	Pass
		75	0	21.03	4.00	25.03	<=33.01	Pass
	2562.5	1	0	22.25	4.00	26.25	<=33.01	Pass
			38	22.09	4.00	26.09	<=33.01	Pass
			74	22.08	4.00	26.08	<=33.01	Pass
		36	0	20.96	4.00	24.96	<=33.01	Pass
			18	20.87	4.00	24.87	<=33.01	Pass
			39	20.88	4.00	24.88	<=33.01	Pass
		75	0	20.98	4.00	24.98	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.4 B7_20MHz_EIRP

Band: 7 / Bandwidth: 20MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
64QAM	2510	1	0	22.11	4.00	26.11	<=33.01	Pass
			50	22.05	4.00	26.05	<=33.01	Pass
			99	22.06	4.00	26.06	<=33.01	Pass
		50	0	20.99	4.00	24.99	<=33.01	Pass
			25	21.05	4.00	25.05	<=33.01	Pass
			50	21.01	4.00	25.01	<=33.01	Pass
		100	0	20.97	4.00	24.97	<=33.01	Pass
	2535	1	0	22.29	4.00	26.29	<=33.01	Pass
			50	22.21	4.00	26.21	<=33.01	Pass
			99	22.12	4.00	26.12	<=33.01	Pass
		50	0	21.05	4.00	25.05	<=33.01	Pass
			25	21.06	4.00	25.06	<=33.01	Pass
			50	21.10	4.00	25.10	<=33.01	Pass
		100	0	21.04	4.00	25.04	<=33.01	Pass

	2560	1	0	21.75	4.00	25.75	<=33.01	Pass
			50	21.68	4.00	25.68	<=33.01	Pass
			99	21.61	4.00	25.61	<=33.01	Pass
		50	0	21.03	4.00	25.03	<=33.01	Pass
			25	21.08	4.00	25.08	<=33.01	Pass
			50	20.93	4.00	24.93	<=33.01	Pass
		100	0	21.06	4.00	25.06	<=33.01	Pass
			Note1: EIRP=Conducted Power+Antenna Gain					

2. Frequency Stability

2.1 Test Result

2.1.1 B7_5MHz

Band: 7 / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
64QAM	2502.5	25	0	20	3.27	-8.268	-0.0033	-2.5 to 2.5	Pass
					3.85	-2.189	-0.0009	-2.5 to 2.5	Pass
					4.43	0.057	0.0000	-2.5 to 2.5	Pass
				-30	3.85	2.375	0.0009	-2.5 to 2.5	Pass
				-20	3.85	3.862	0.0015	-2.5 to 2.5	Pass
				-10	3.85	-4.220	-0.0017	-2.5 to 2.5	Pass
				0	3.85	-0.401	-0.0002	-2.5 to 2.5	Pass
				10	3.85	-6.008	-0.0024	-2.5 to 2.5	Pass
				30	3.85	-8.998	-0.0036	-2.5 to 2.5	Pass
				40	3.85	-8.125	-0.0032	-2.5 to 2.5	Pass
	2535	25	0	50	3.85	-3.891	-0.0016	-2.5 to 2.5	Pass
				20	3.27	6.380	0.0025	-2.5 to 2.5	Pass
					3.85	-1.917	-0.0008	-2.5 to 2.5	Pass
					4.43	-1.459	-0.0006	-2.5 to 2.5	Pass
				-30	3.85	4.063	0.0016	-2.5 to 2.5	Pass
				-20	3.85	-5.579	-0.0022	-2.5 to 2.5	Pass
				-10	3.85	3.433	0.0014	-2.5 to 2.5	Pass
				0	3.85	4.950	0.0020	-2.5 to 2.5	Pass
				10	3.85	-2.632	-0.0010	-2.5 to 2.5	Pass
				30	3.85	-2.174	-0.0009	-2.5 to 2.5	Pass
	2567.5	25	0	40	3.85	2.804	0.0011	-2.5 to 2.5	Pass
				50	3.85	0.272	0.0001	-2.5 to 2.5	Pass
				20	3.27	-2.160	-0.0008	-2.5 to 2.5	Pass
					3.85	-3.805	-0.0015	-2.5 to 2.5	Pass
					4.43	-1.316	-0.0005	-2.5 to 2.5	Pass
				-30	3.85	-7.854	-0.0031	-2.5 to 2.5	Pass
				-20	3.85	-11.415	-0.0044	-2.5 to 2.5	Pass
				-10	3.85	-0.644	-0.0003	-2.5 to 2.5	Pass
				0	3.85	-8.554	-0.0033	-2.5 to 2.5	Pass
				10	3.85	-5.322	-0.0021	-2.5 to 2.5	Pass
				30	3.85	0.644	0.0003	-2.5 to 2.5	Pass
				40	3.85	-7.095	-0.0028	-2.5 to 2.5	Pass
				50	3.85	0.300	0.0001	-2.5 to 2.5	Pass

2.1.2 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	
64QAM	2505	50	0	20	3.27	5.822	0.0023	-2.5 to 2.5	Pass
					3.85	-4.621	-0.0018	-2.5 to 2.5	Pass
					4.43	-3.333	-0.0013	-2.5 to 2.5	Pass
				-30	3.85	-0.014	0.0000	-2.5 to 2.5	Pass
				-20	3.85	-0.072	0.0000	-2.5 to 2.5	Pass
				-10	3.85	-0.358	-0.0001	-2.5 to 2.5	Pass
				0	3.85	-0.916	-0.0004	-2.5 to 2.5	Pass
				10	3.85	-0.887	-0.0004	-2.5 to 2.5	Pass
				30	3.85	0.730	0.0003	-2.5 to 2.5	Pass
				40	3.85	-5.364	-0.0021	-2.5 to 2.5	Pass
	2535	50	0	20	3.85	-0.443	-0.0002	-2.5 to 2.5	Pass
					3.27	0.272	0.0001	-2.5 to 2.5	Pass
					3.85	0.157	0.0001	-2.5 to 2.5	Pass
				-30	4.43	-2.832	-0.0011	-2.5 to 2.5	Pass
					3.85	-3.991	-0.0016	-2.5 to 2.5	Pass
					3.85	-3.691	-0.0015	-2.5 to 2.5	Pass
				-20	3.85	-0.486	-0.0002	-2.5 to 2.5	Pass
				-10	3.85	-0.486	-0.0002	-2.5 to 2.5	Pass
				0	3.85	1.388	0.0005	-2.5 to 2.5	Pass
				10	3.85	1.874	0.0007	-2.5 to 2.5	Pass
	2565	50	0	30	3.85	-2.561	-0.0010	-2.5 to 2.5	Pass
					4.43	-2.217	-0.0009	-2.5 to 2.5	Pass
					3.85	-2.360	-0.0009	-2.5 to 2.5	Pass
				-20	3.85	-3.233	-0.0013	-2.5 to 2.5	Pass
					3.85	-2.861	-0.0011	-2.5 to 2.5	Pass
					3.85	-2.987	-0.0004	-2.5 to 2.5	Pass
				-10	3.85	-0.987	-0.0004	-2.5 to 2.5	Pass
				0	3.85	-4.463	-0.0017	-2.5 to 2.5	Pass
				10	3.85	2.646	0.0010	-2.5 to 2.5	Pass
				30	3.85	-7.052	-0.0027	-2.5 to 2.5	Pass
				40	3.85	-0.157	-0.0001	-2.5 to 2.5	Pass
				50	3.85	-5.879	-0.0023	-2.5 to 2.5	Pass

2.1.3 B7_15MHz

Band: 7 / Bandwidth: 15MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
64QAM	2507.5	75	0	20	3.27	4.005	0.0016	-2.5 to 2.5	Pass
					3.85	4.420	0.0018	-2.5 to 2.5	Pass
					4.43	5.336	0.0021	-2.5 to 2.5	Pass
				-30	3.85	5.021	0.0020	-2.5 to 2.5	Pass
				-20	3.85	6.566	0.0026	-2.5 to 2.5	Pass
				-10	3.85	8.826	0.0035	-2.5 to 2.5	Pass
				0	3.85	6.809	0.0027	-2.5 to 2.5	Pass
				10	3.85	-0.257	-0.0001	-2.5 to 2.5	Pass
				30	3.85	3.262	0.0013	-2.5 to 2.5	Pass
				40	3.85	6.280	0.0025	-2.5 to 2.5	Pass
				50	3.85	11.773	0.0047	-2.5 to 2.5	Pass

	2535	75	0	20	3.27	2.947	0.0012	-2.5 to 2.5	Pass
					3.85	-4.420	-0.0017	-2.5 to 2.5	Pass
					4.43	-0.372	-0.0001	-2.5 to 2.5	Pass
				-30	3.85	0.558	0.0002	-2.5 to 2.5	Pass
				-20	3.85	-4.535	-0.0018	-2.5 to 2.5	Pass
				-10	3.85	-1.616	-0.0006	-2.5 to 2.5	Pass
				0	3.85	0.401	0.0002	-2.5 to 2.5	Pass
				10	3.85	-2.246	-0.0009	-2.5 to 2.5	Pass
				30	3.85	-2.346	-0.0009	-2.5 to 2.5	Pass
	2562.5	75	0	40	3.85	-5.207	-0.0021	-2.5 to 2.5	Pass
				50	3.85	3.920	0.0015	-2.5 to 2.5	Pass
				20	3.27	-1.016	-0.0004	-2.5 to 2.5	Pass
					3.85	-6.638	-0.0026	-2.5 to 2.5	Pass
					4.43	-7.296	-0.0028	-2.5 to 2.5	Pass
				-30	3.85	-6.509	-0.0025	-2.5 to 2.5	Pass
				-20	3.85	-11.330	-0.0044	-2.5 to 2.5	Pass
				-10	3.85	-5.422	-0.0021	-2.5 to 2.5	Pass
				0	3.85	-4.735	-0.0018	-2.5 to 2.5	Pass
				10	3.85	-3.662	-0.0014	-2.5 to 2.5	Pass
				30	3.85	-1.588	-0.0006	-2.5 to 2.5	Pass
				40	3.85	-5.894	-0.0023	-2.5 to 2.5	Pass
				50	3.85	-8.454	-0.0033	-2.5 to 2.5	Pass

2.1.4 B7_20MHz

Band: 7 / Bandwidth: 20MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
64QAM	2510	100	0	20	3.27	1.230	0.0005	-2.5 to 2.5	Pass
					3.85	2.303	0.0009	-2.5 to 2.5	Pass
					4.43	-0.200	-0.0001	-2.5 to 2.5	Pass
				-30	3.85	0.315	0.0001	-2.5 to 2.5	Pass
				-20	3.85	-3.276	-0.0013	-2.5 to 2.5	Pass
				-10	3.85	-1.888	-0.0008	-2.5 to 2.5	Pass
				0	3.85	3.204	0.0013	-2.5 to 2.5	Pass
				10	3.85	0.973	0.0004	-2.5 to 2.5	Pass
				30	3.85	-3.648	-0.0015	-2.5 to 2.5	Pass
	2535	100	0	40	3.85	-2.203	-0.0009	-2.5 to 2.5	Pass
				50	3.85	2.847	0.0011	-2.5 to 2.5	Pass
				20	3.27	1.931	0.0008	-2.5 to 2.5	Pass
					3.85	-0.544	-0.0002	-2.5 to 2.5	Pass
					4.43	1.216	0.0005	-2.5 to 2.5	Pass
				-30	3.85	-1.402	-0.0006	-2.5 to 2.5	Pass
				-20	3.85	2.775	0.0011	-2.5 to 2.5	Pass
				-10	3.85	0.415	0.0002	-2.5 to 2.5	Pass
				0	3.85	1.345	0.0005	-2.5 to 2.5	Pass
	2560	100	0	10	3.85	0.830	0.0003	-2.5 to 2.5	Pass
				30	3.85	-4.735	-0.0019	-2.5 to 2.5	Pass
				40	3.85	6.609	0.0026	-2.5 to 2.5	Pass
				50	3.85	0.901	0.0004	-2.5 to 2.5	Pass
				20	3.27	5.364	0.0021	-2.5 to 2.5	Pass
					3.85	9.413	0.0037	-2.5 to 2.5	Pass
					4.43	7.095	0.0028	-2.5 to 2.5	Pass
				-30	3.85	1.674	0.0007	-2.5 to 2.5	Pass
				-20	3.85	6.552	0.0026	-2.5 to 2.5	Pass

				-10	3.85	3.748	0.0015	-2.5 to 2.5	Pass
				0	3.85	2.103	0.0008	-2.5 to 2.5	Pass
				10	3.85	7.968	0.0031	-2.5 to 2.5	Pass
				30	3.85	-1.888	-0.0007	-2.5 to 2.5	Pass
				40	3.85	7.539	0.0029	-2.5 to 2.5	Pass
				50	3.85	3.405	0.0013	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band7_OBW

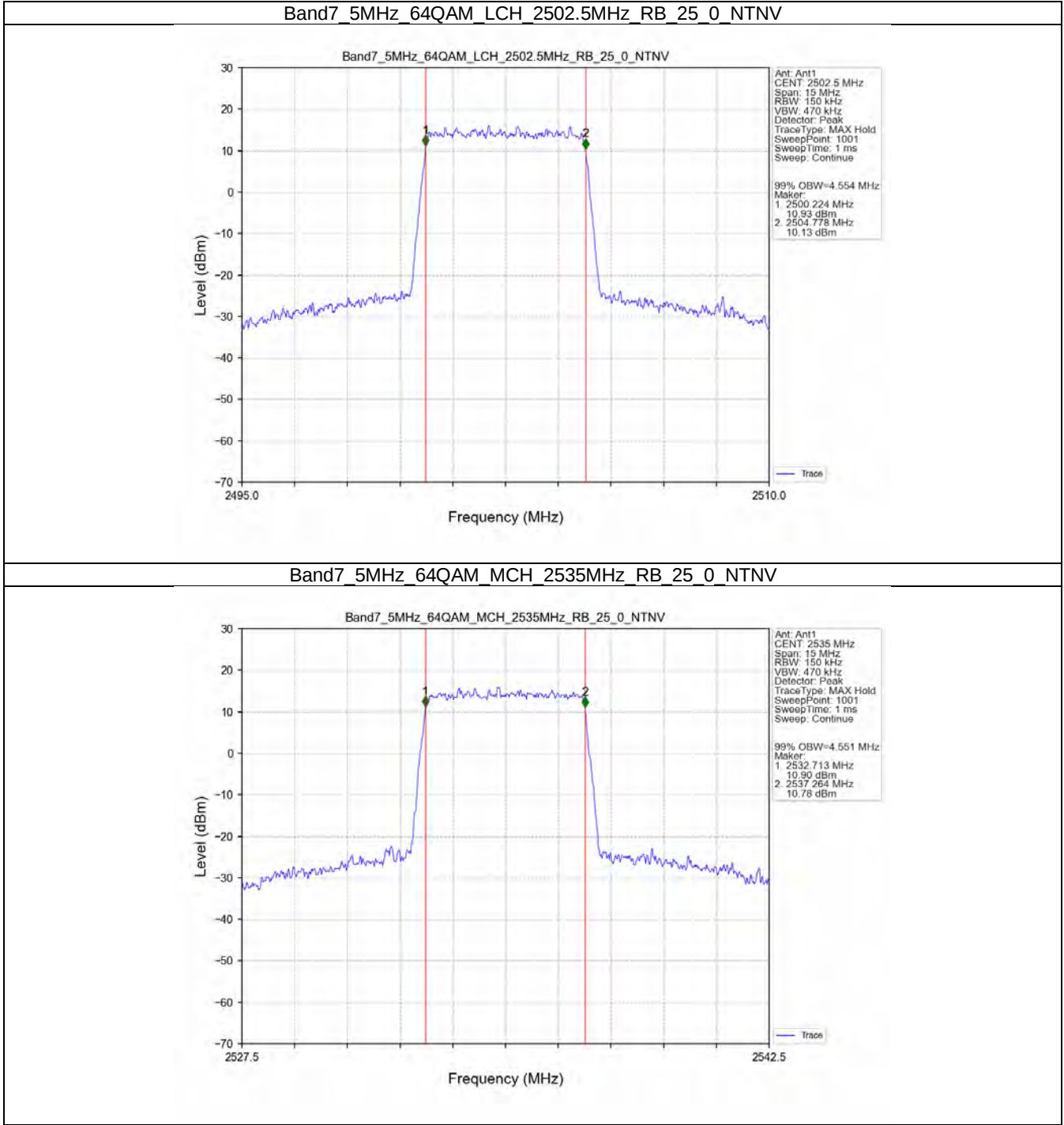
Band: 7 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	64QAM	2502.5	25	0	4.554	/	Pass
		2535	25	0	4.551	/	Pass
		2567.5	25	0	4.553	/	Pass
10	64QAM	2505	50	0	9.055	/	Pass
		2535	50	0	9.031	/	Pass
		2565	50	0	9.064	/	Pass
15	64QAM	2507.5	75	0	13.562	/	Pass
		2535	75	0	13.547	/	Pass
		2562.5	75	0	13.567	/	Pass
20	64QAM	2510	100	0	18.071	/	Pass
		2535	100	0	18.088	/	Pass
		2560	100	0	18.051	/	Pass

3.1.2 Band7_XDB

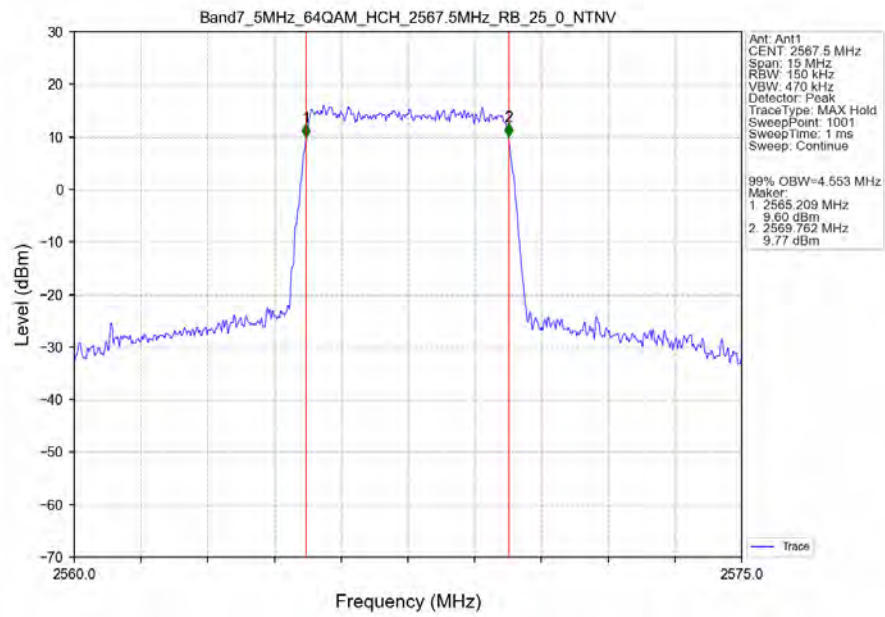
Band: 7 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	64QAM	2502.5	25	0	5.049	/	Pass
		2535	25	0	5.048	/	Pass
		2567.5	25	0	5.060	/	Pass
10	64QAM	2505	50	0	9.971	/	Pass
		2535	50	0	10.039	/	Pass
		2565	50	0	9.970	/	Pass
15	64QAM	2507.5	75	0	14.869	/	Pass
		2535	75	0	14.877	/	Pass
		2562.5	75	0	14.927	/	Pass
20	64QAM	2510	100	0	19.867	/	Pass
		2535	100	0	19.775	/	Pass
		2560	100	0	19.826	/	Pass

3.2 Test Graph

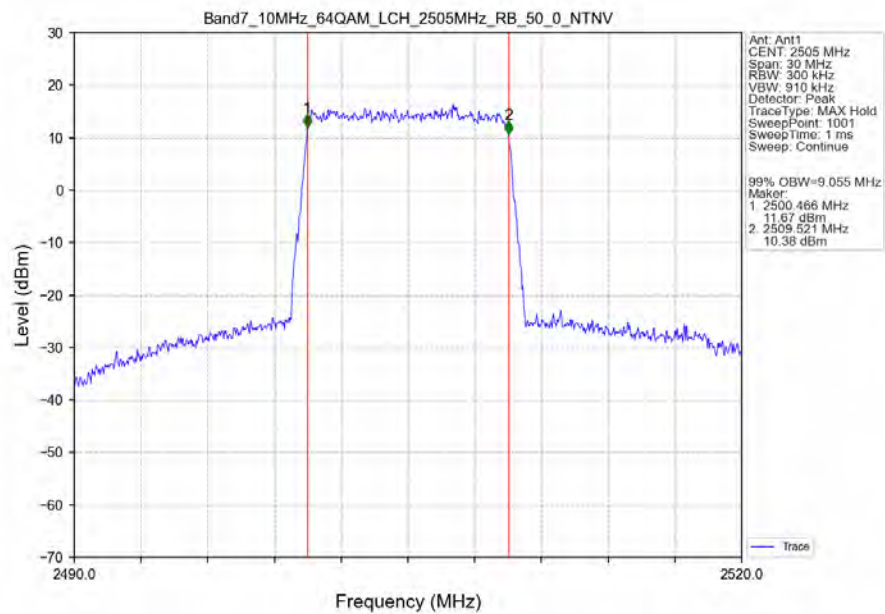
3.2.1 Band7_OBW



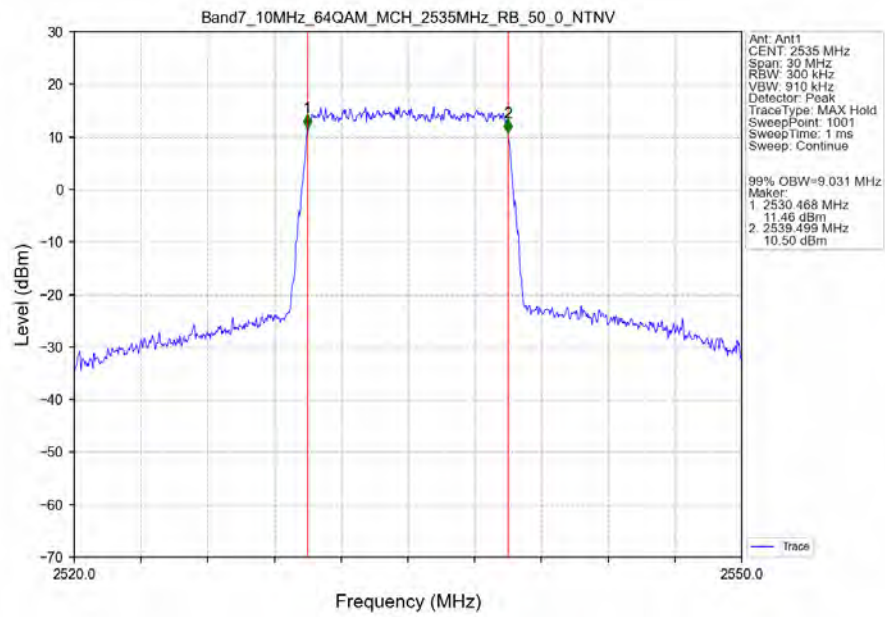
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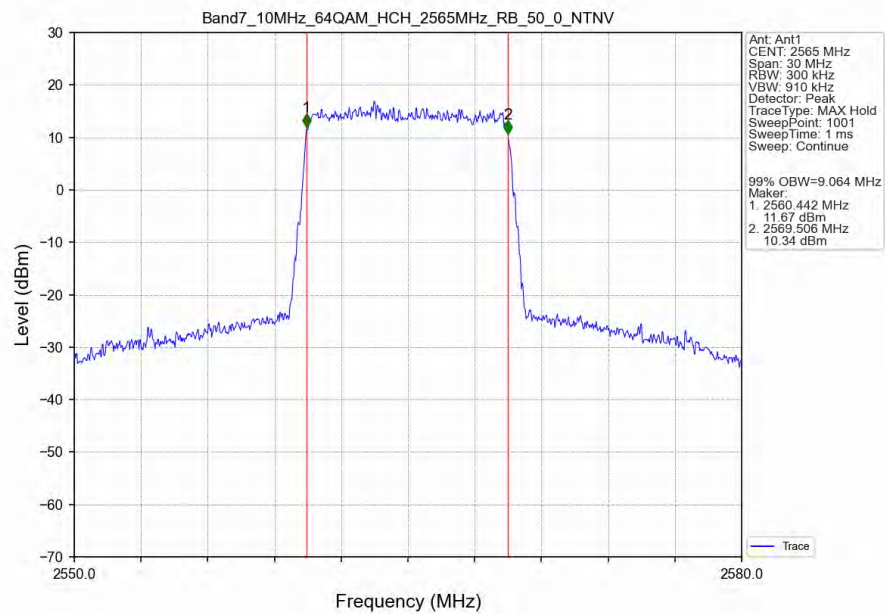
Band7_10MHz_64QAM_LCH_2505MHz_RB_50_0_NTNV



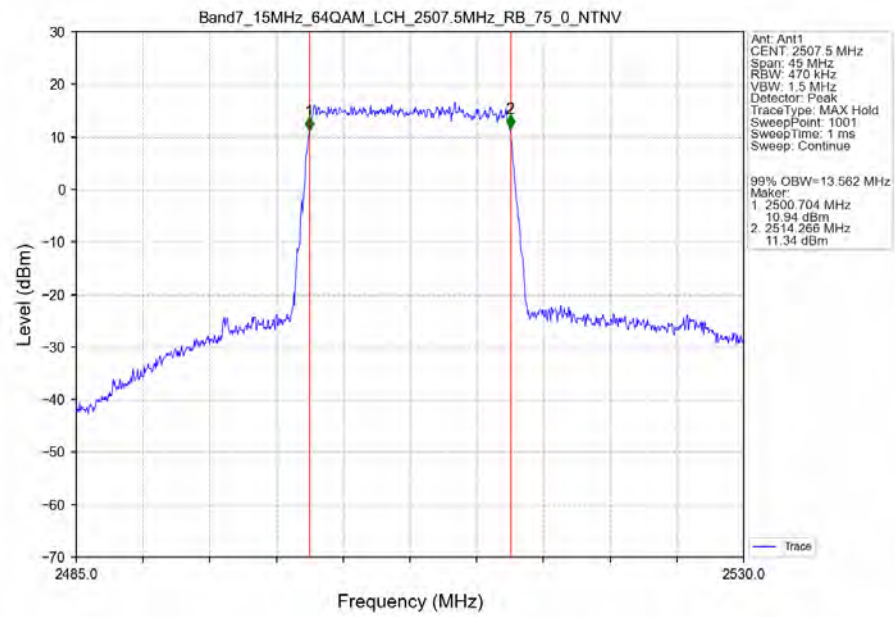
Band7_10MHz_64QAM_MCH_2535MHz_RB_50_0_NTNV



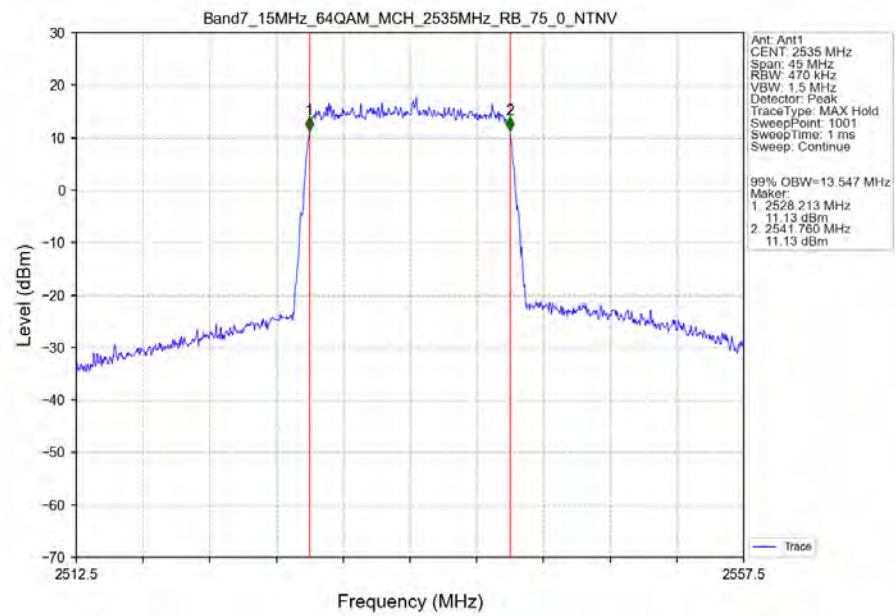
Band7_10MHz_64QAM_HCH_2565MHz_RB_50_0_NTNV



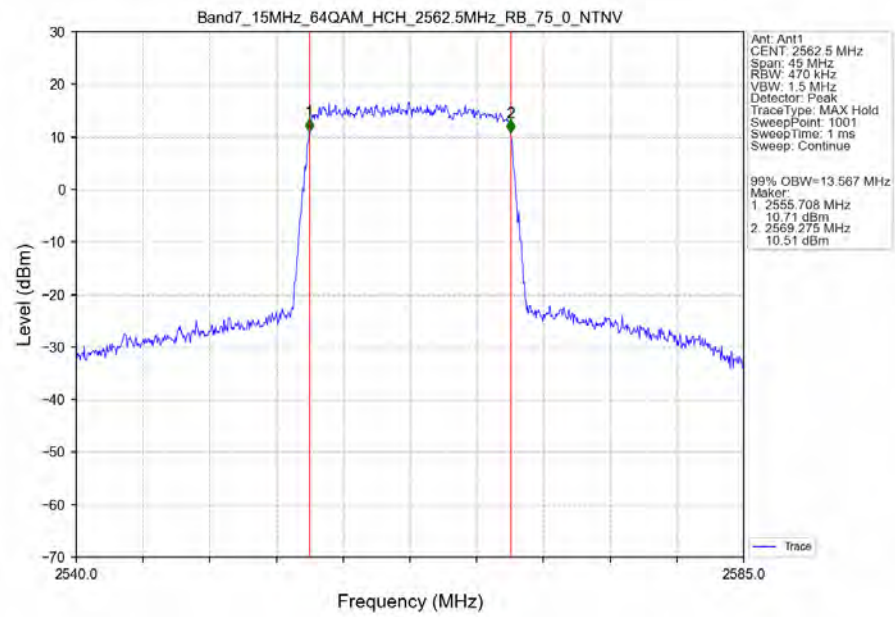
Band7_15MHz_64QAM_LCH_2507.5MHz_RB_75_0_NTNV



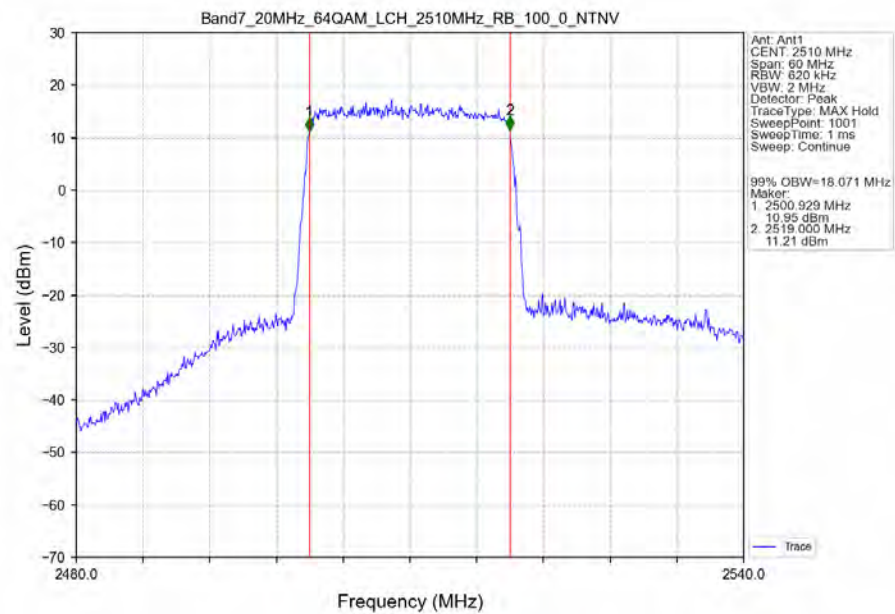
Band7_15MHz_64QAM_MCH_2535MHz_RB_75_0_NTNV



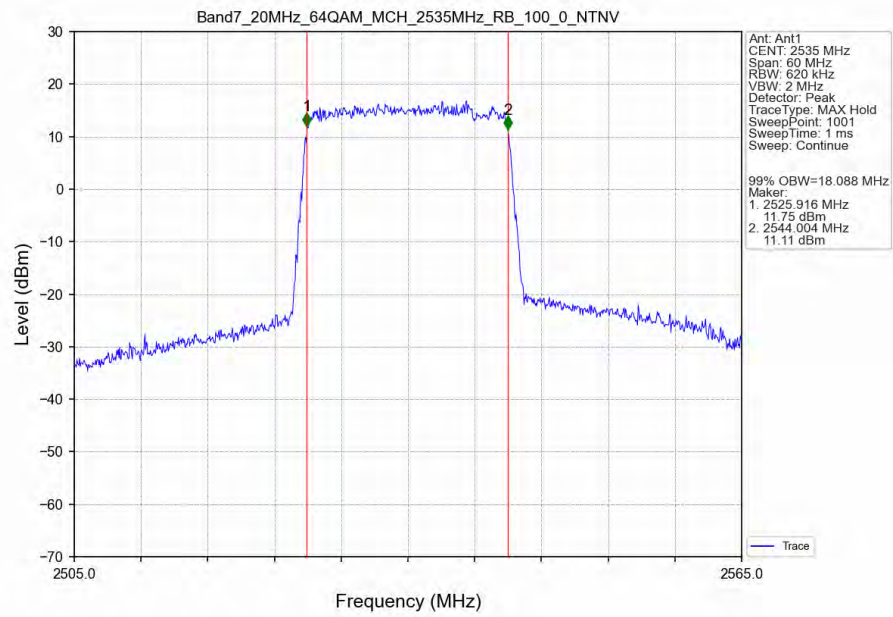
Band7_15MHz_64QAM_HCH_2562.5MHz_RB_75_0_NTNV



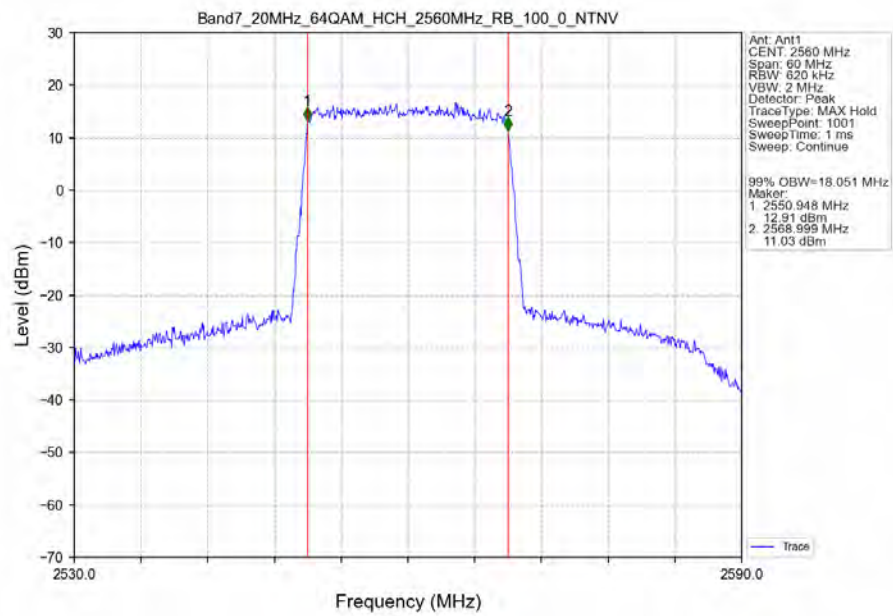
Band7_20MHz_64QAM_LCH_2510MHz_RB_100_0_NTNV



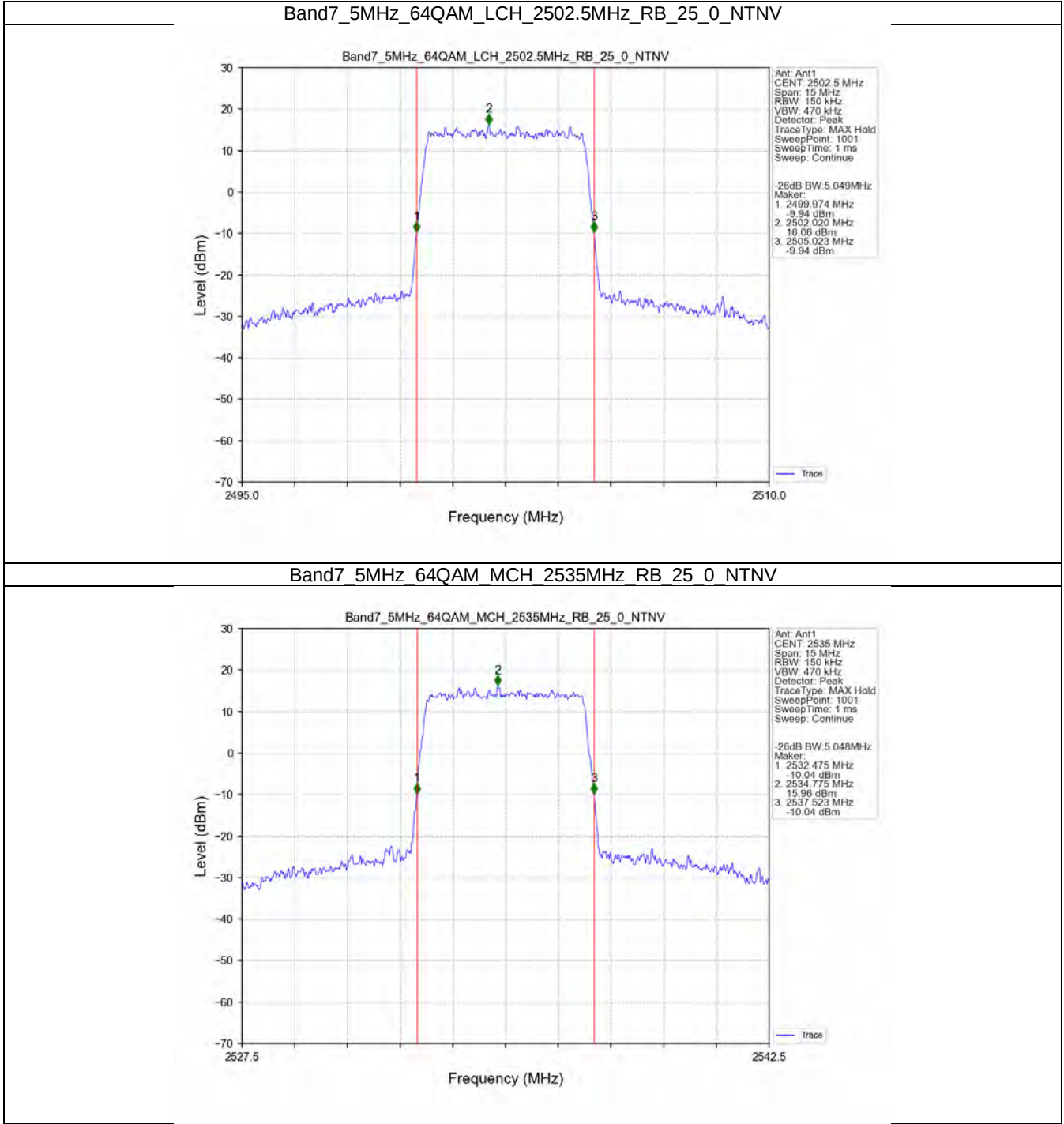
Band7_20MHz_64QAM_MCH_2535MHz_RB_100_0_NTNV



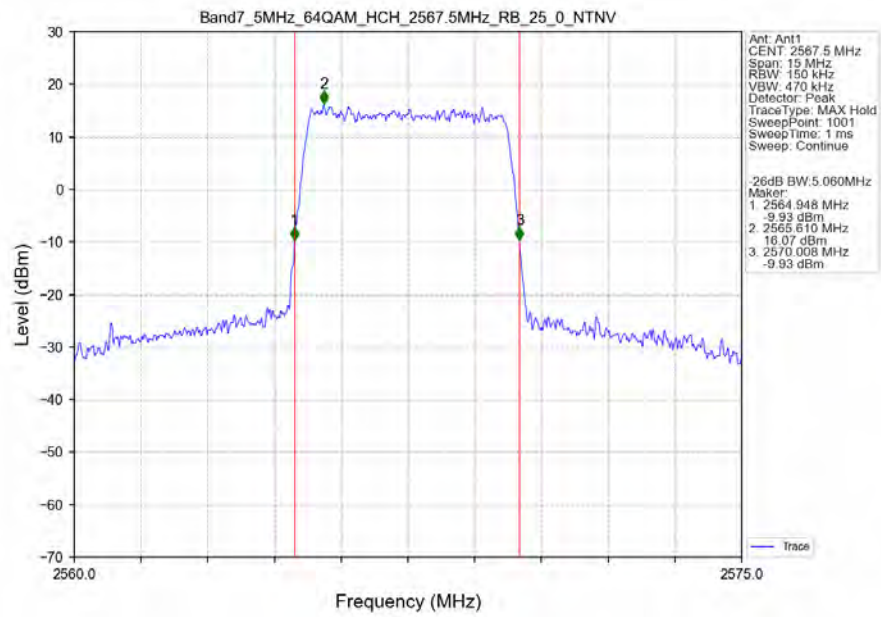
Band7_20MHz_64QAM_HCH_2560MHz_RB_100_0_NTNV



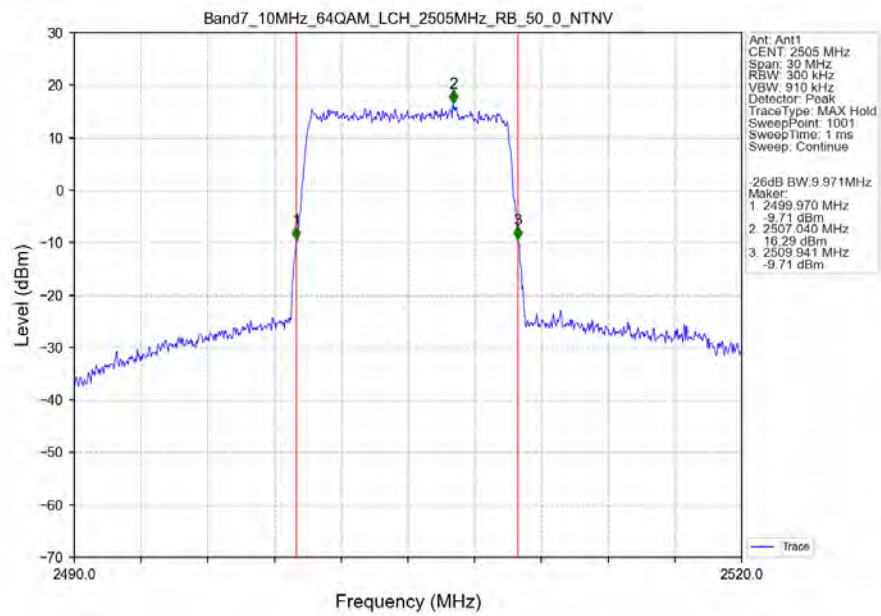
3.2.2 Band7_XDB



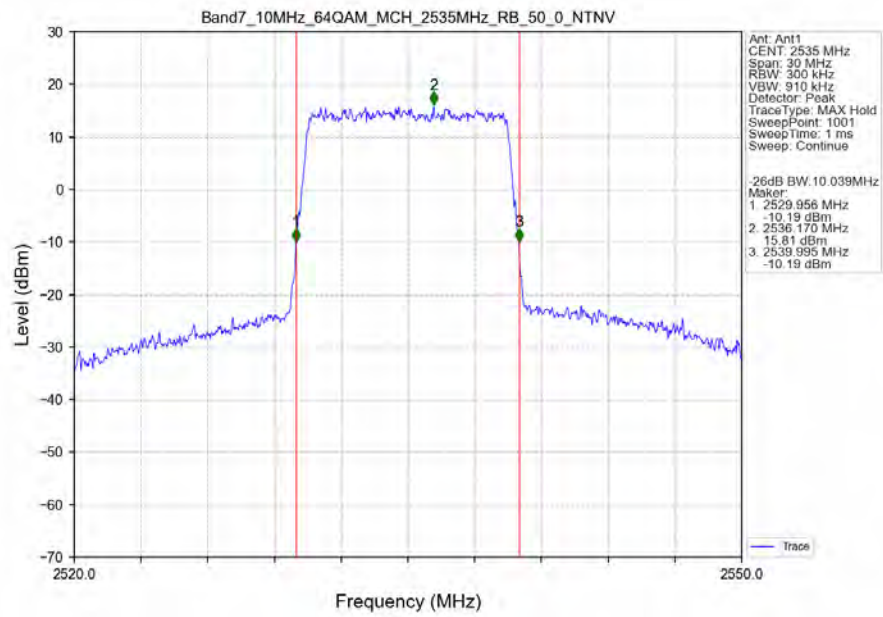
Band7_5MHz_64QAM_HCH_2567.5MHz_RB_25_0_NTNV



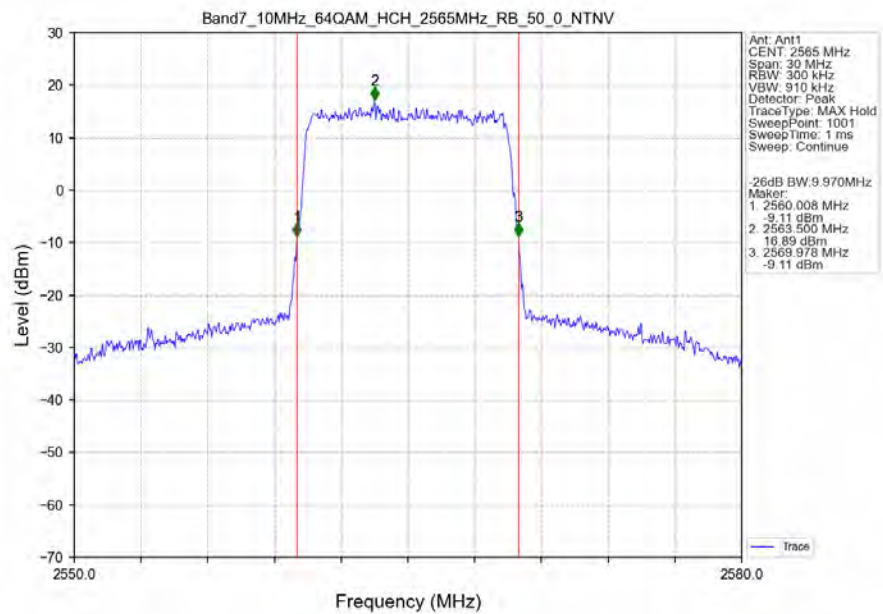
Band7_10MHz_64QAM_LCH_2505MHz_RB_50_0_NTNV



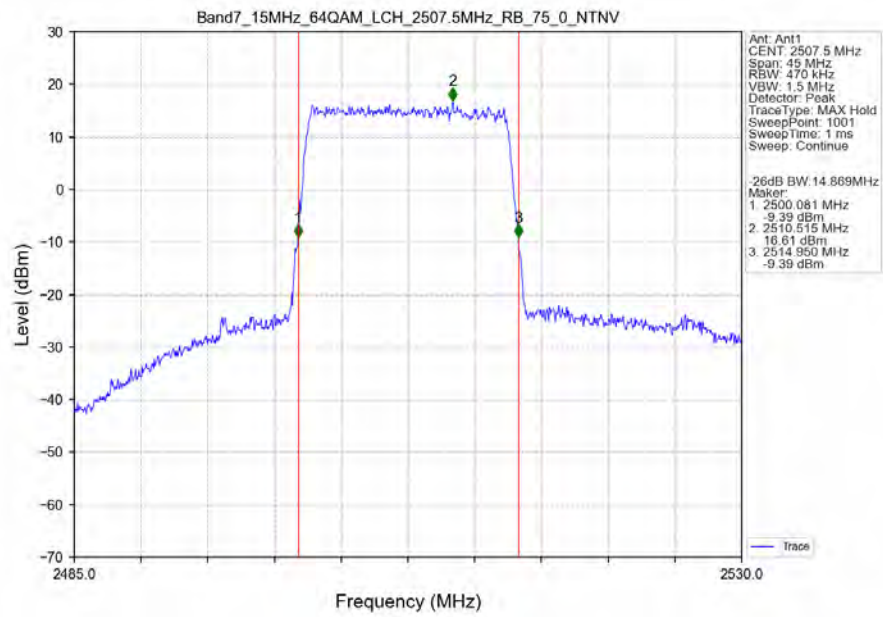
Band7_10MHz_64QAM_MCH_2535MHz_RB_50_0_NTNV



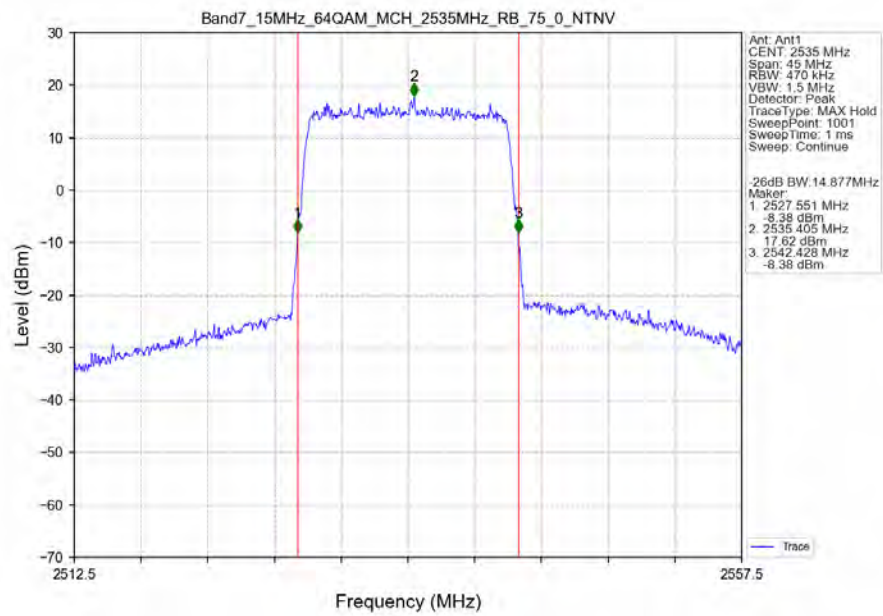
Band7_10MHz_64QAM_HCH_2565MHz_RB_50_0_NTNV



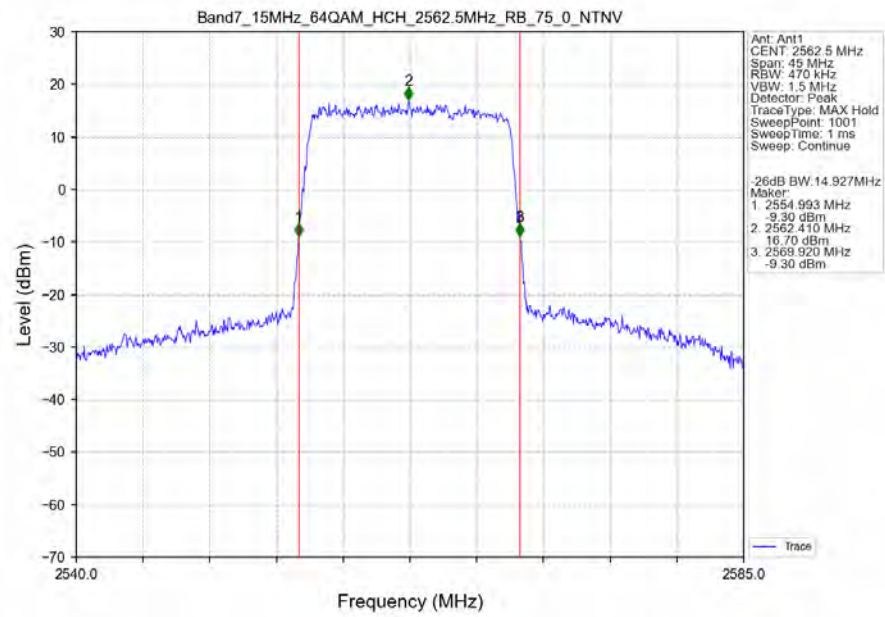
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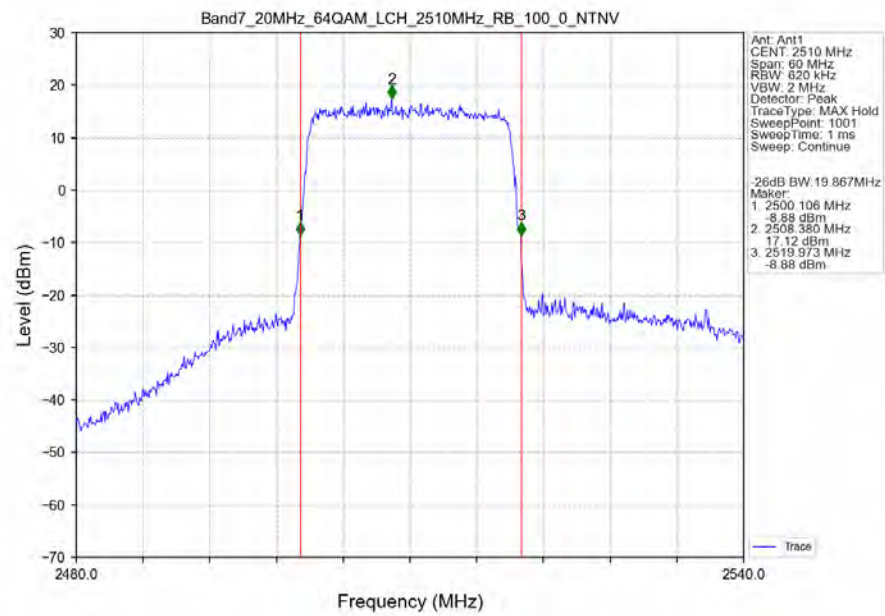
Band7_15MHz_64QAM_MCH_2535MHz_RB_75_0_NTNV



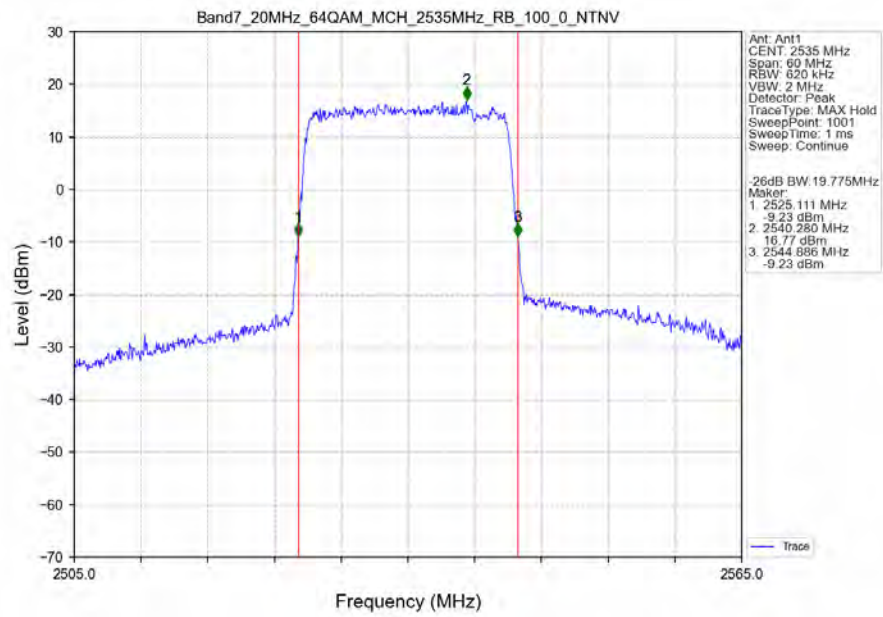
Band7_15MHz_64QAM_HCH_2562.5MHz_RB_75_0_NTNV



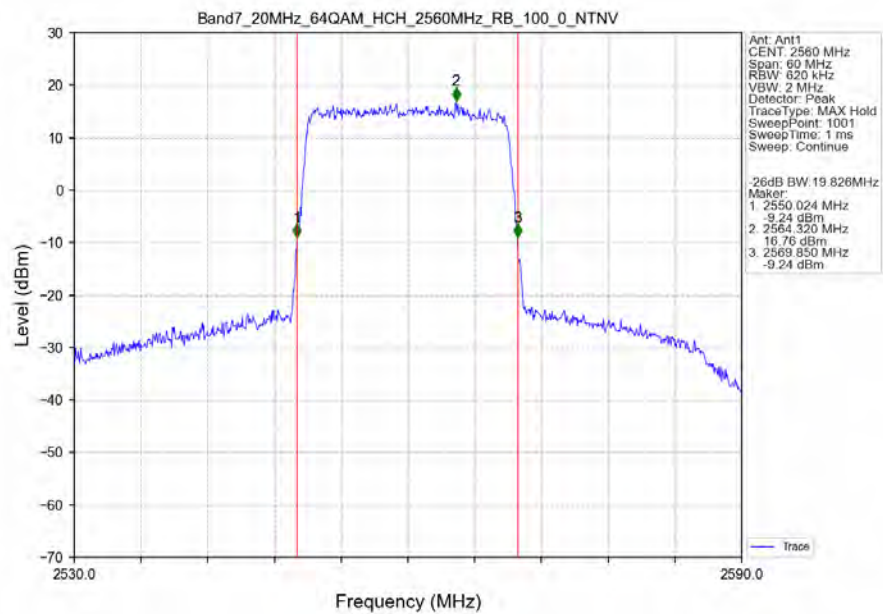
Band7_20MHz_64QAM_LCH_2510MHz_RB_100_0_NTNV



Band7_20MHz_64QAM_MCH_2535MHz_RB_100_0_NTNV



Band7_20MHz_64QAM_HCH_2560MHz_RB_100_0_NTNV



4. Peak-Average Ratio

4.1 Test Result

4.1.1 B7_5MHz

Band: 7 / Bandwidth: 5MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
64QAM	2502.5	25	0	6.60	<=13	Pass
	2535	25	0	6.54	<=13	Pass
	2567.5	25	0	6.43	<=13	Pass

4.1.2 B7_10MHz

Band: 7 / Bandwidth: 10MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
64QAM	2505	50	0	6.57	<=13	Pass
	2535	50	0	6.67	<=13	Pass
	2565	50	0	6.59	<=13	Pass

4.1.3 B7_15MHz

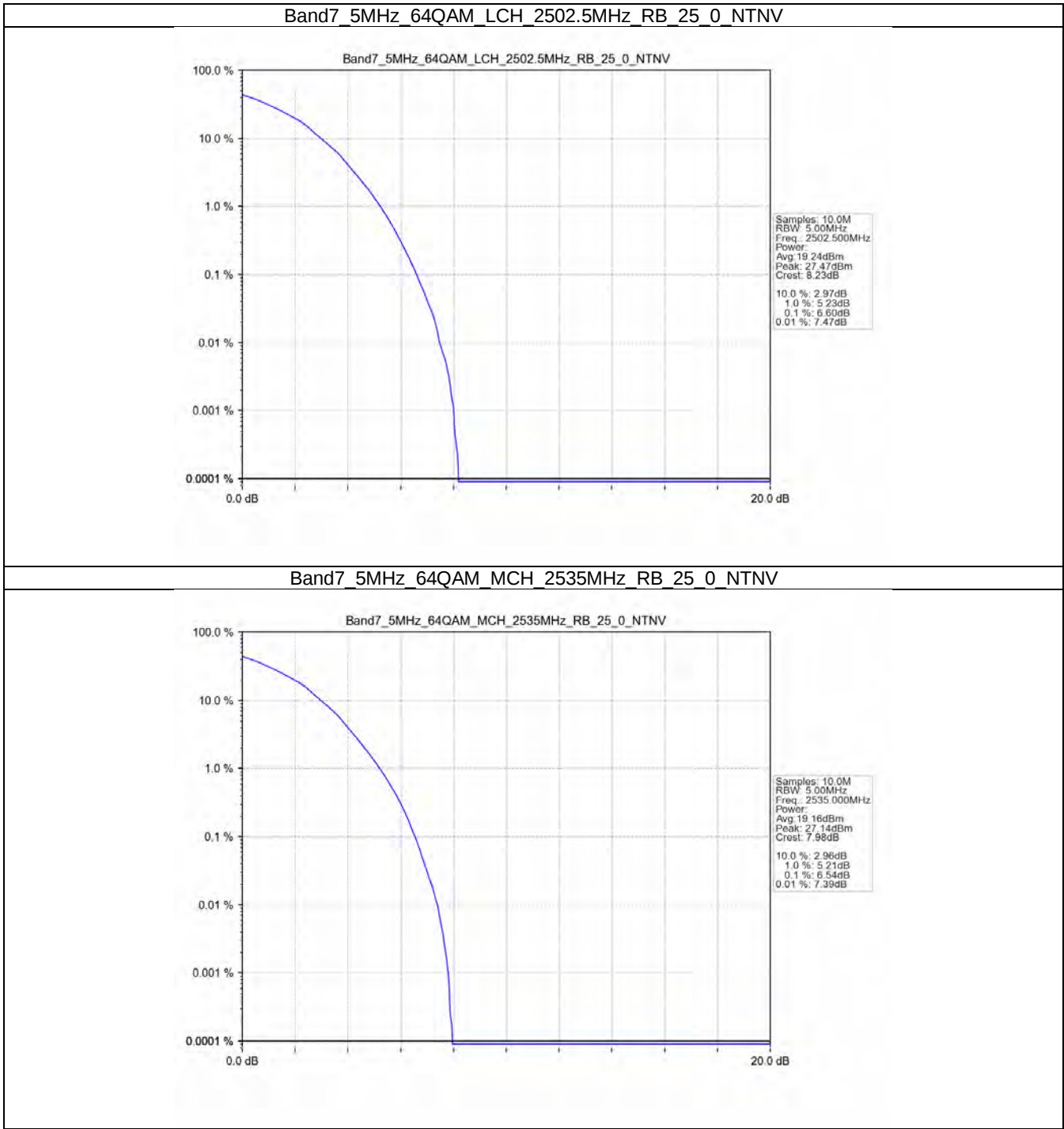
Band: 7 / Bandwidth: 15MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
64QAM	2507.5	75	0	6.53	<=13	Pass
	2535	75	0	6.59	<=13	Pass
	2562.5	75	0	6.56	<=13	Pass

4.1.4 B7_20MHz

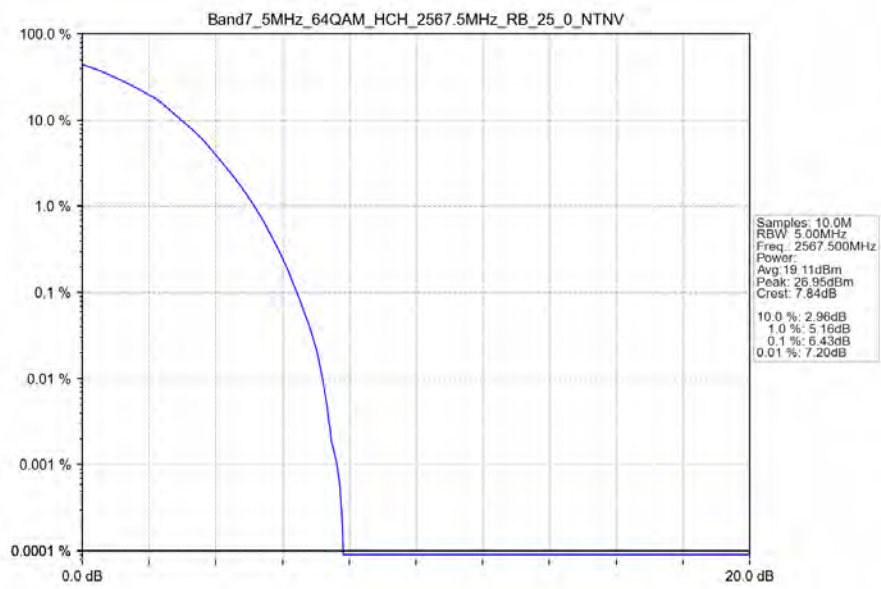
Band: 7 / Bandwidth: 20MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
64QAM	2510	100	0	6.60	<=13	Pass
	2535	100	0	6.60	<=13	Pass
	2560	100	0	6.56	<=13	Pass

4.2 Test Graph

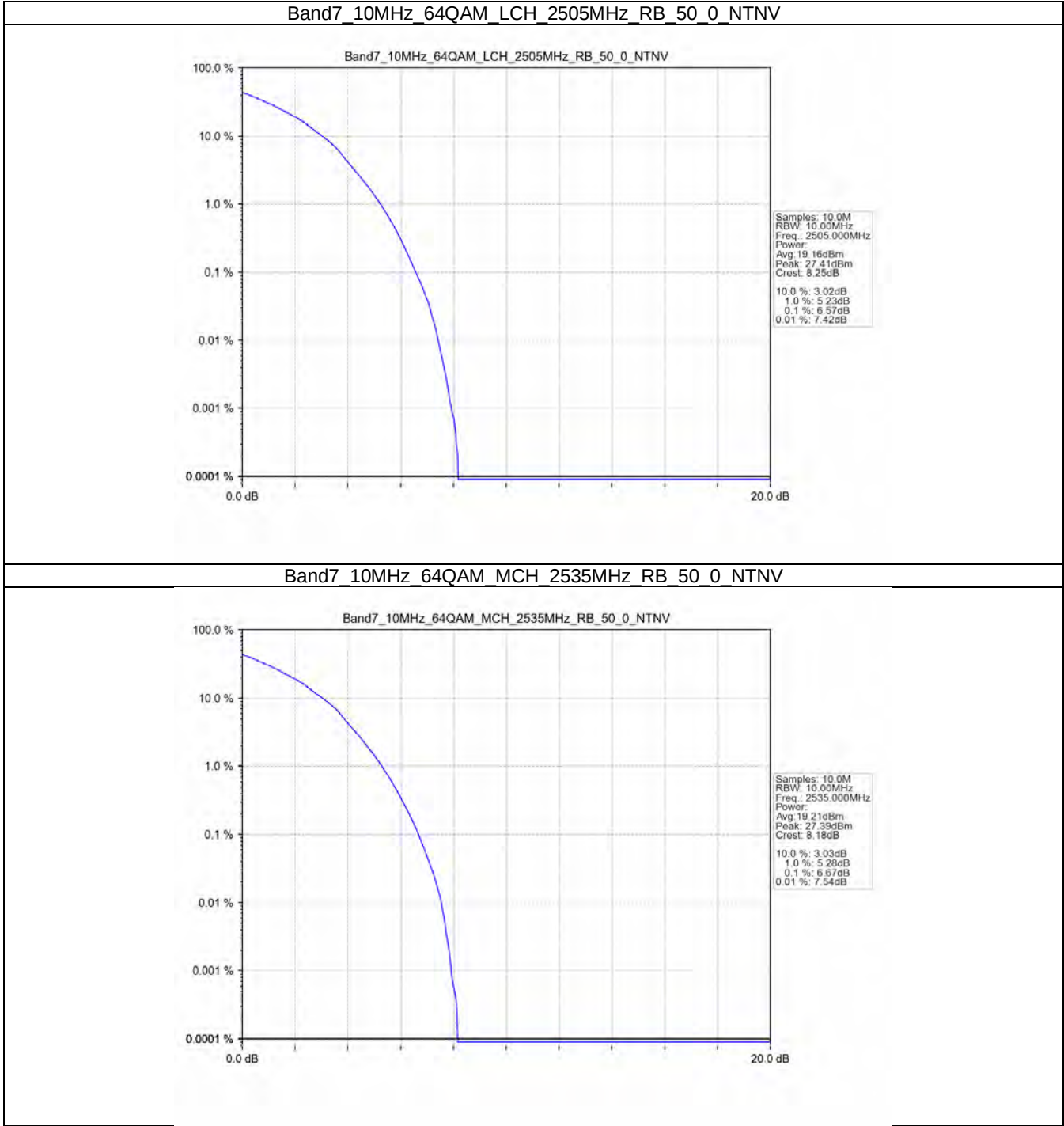
4.2.1 B7_5MHz



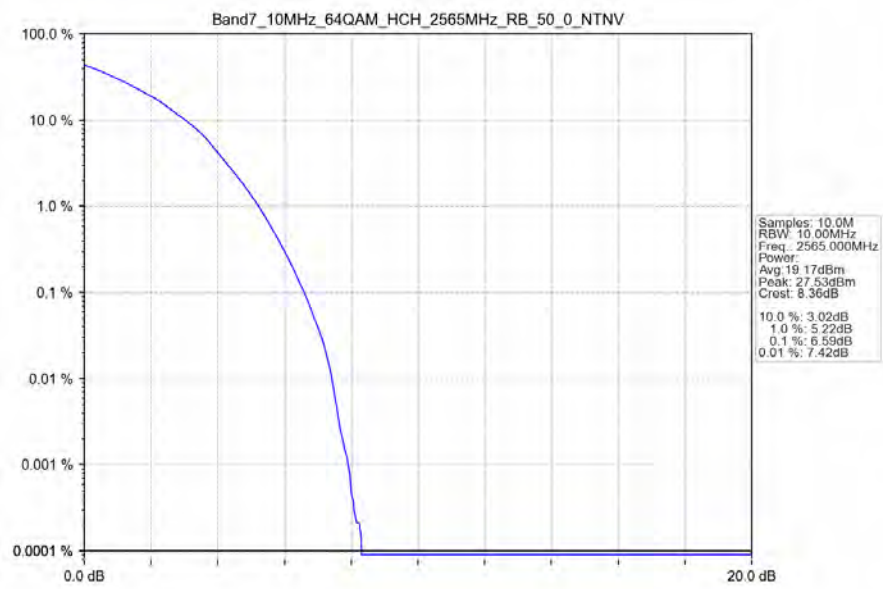
Band7 5MHz 64QAM HCH 2567.5MHz RB 25 0 NTNV



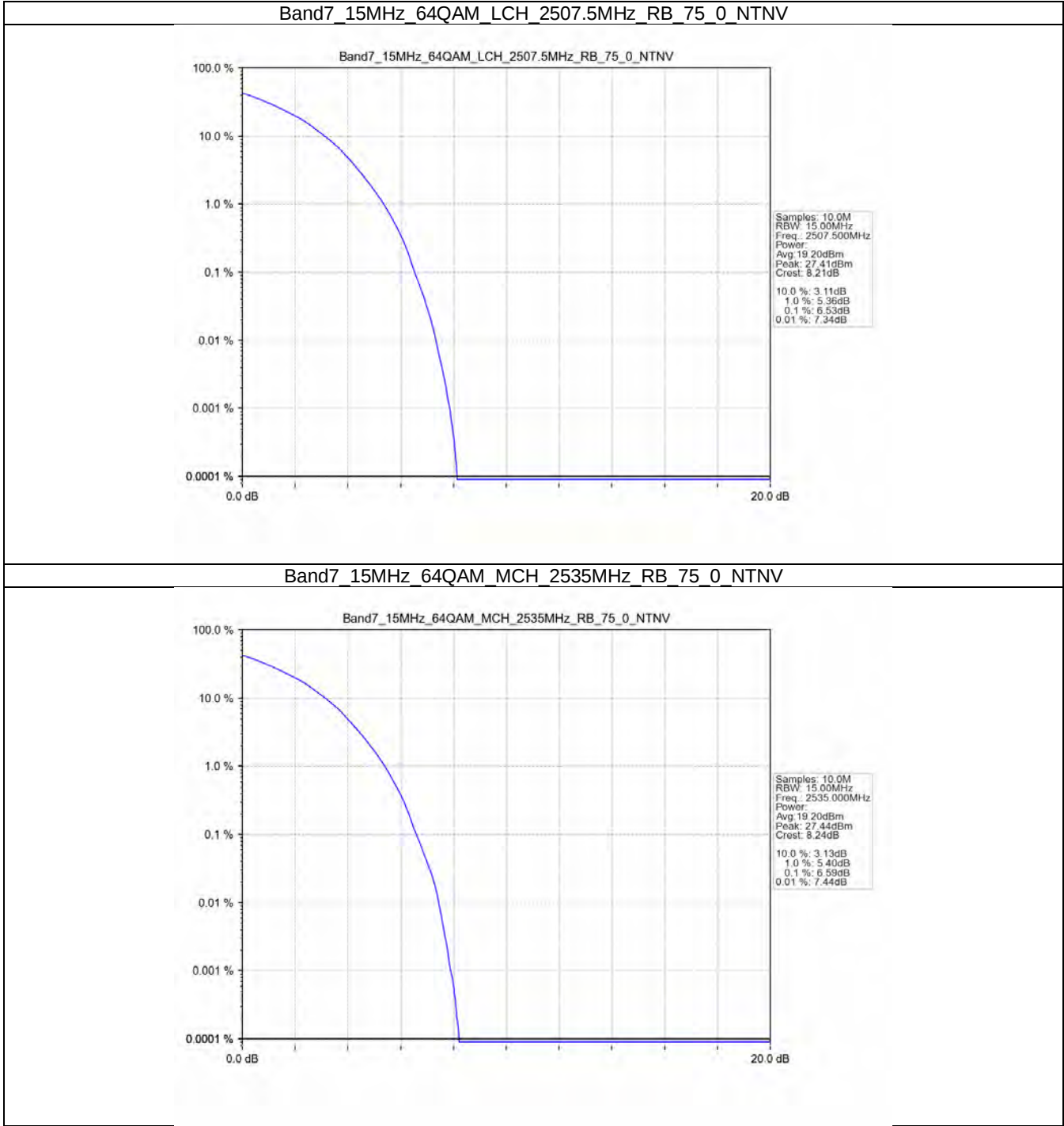
4.2.2 B7_10MHz



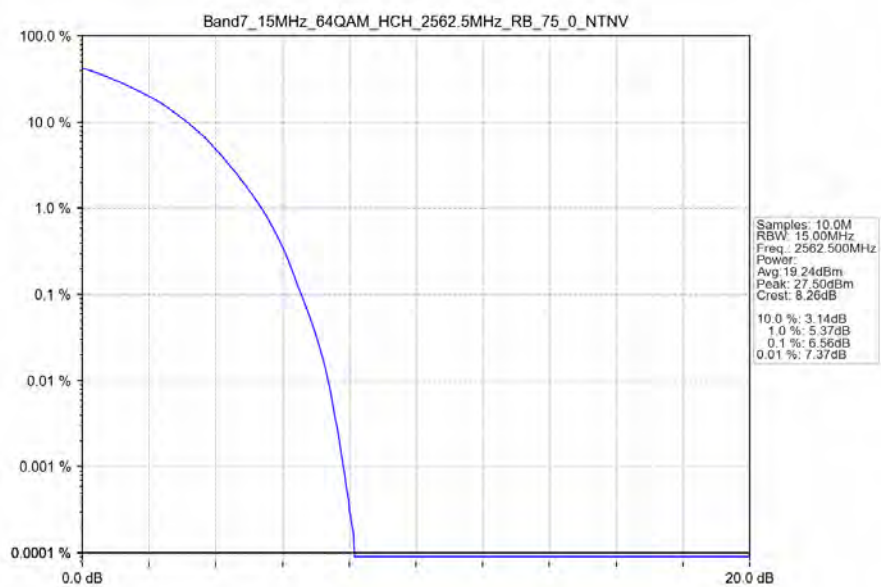
Band7_10MHz_64QAM_HCH_2565MHz_RB_50_0_NTNV



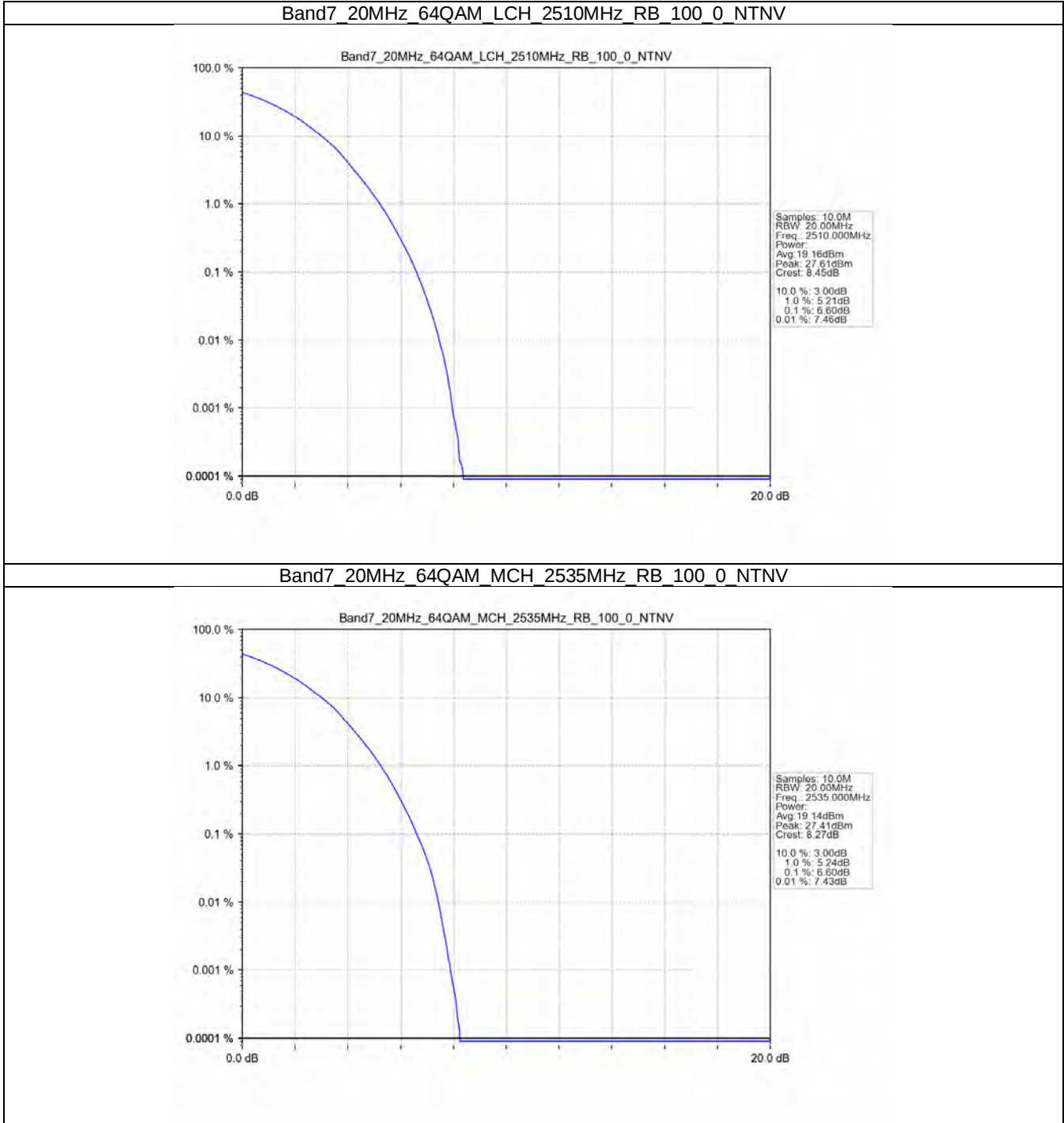
4.2.3 B7_15MHz



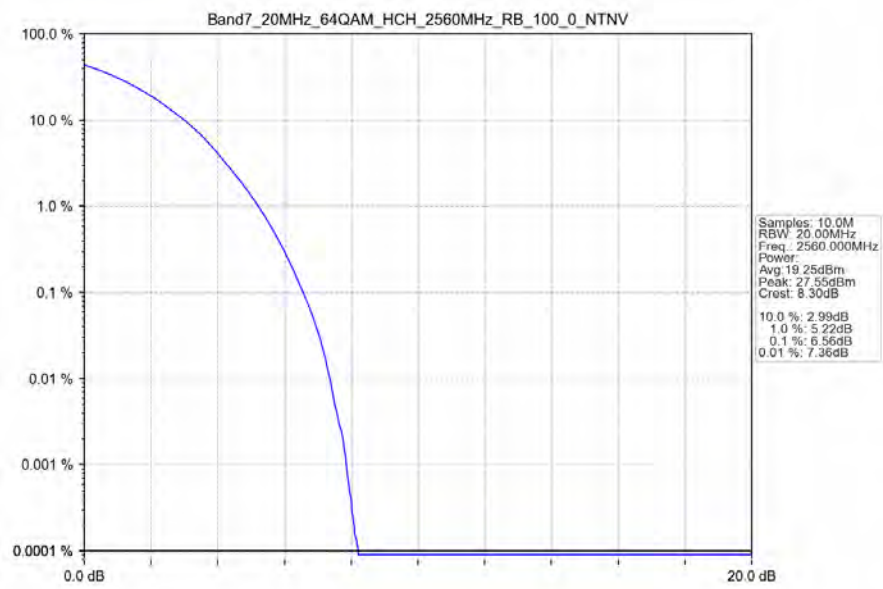
Band7_15MHz_64QAM_HCH_2562.5MHz_RB_75_0_NTNV



4.2.4 B7_20MHz



Band7_20MHz_64QAM_HCH_2560MHz_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	
64QAM	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 / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
64QAM	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	
64QAM	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

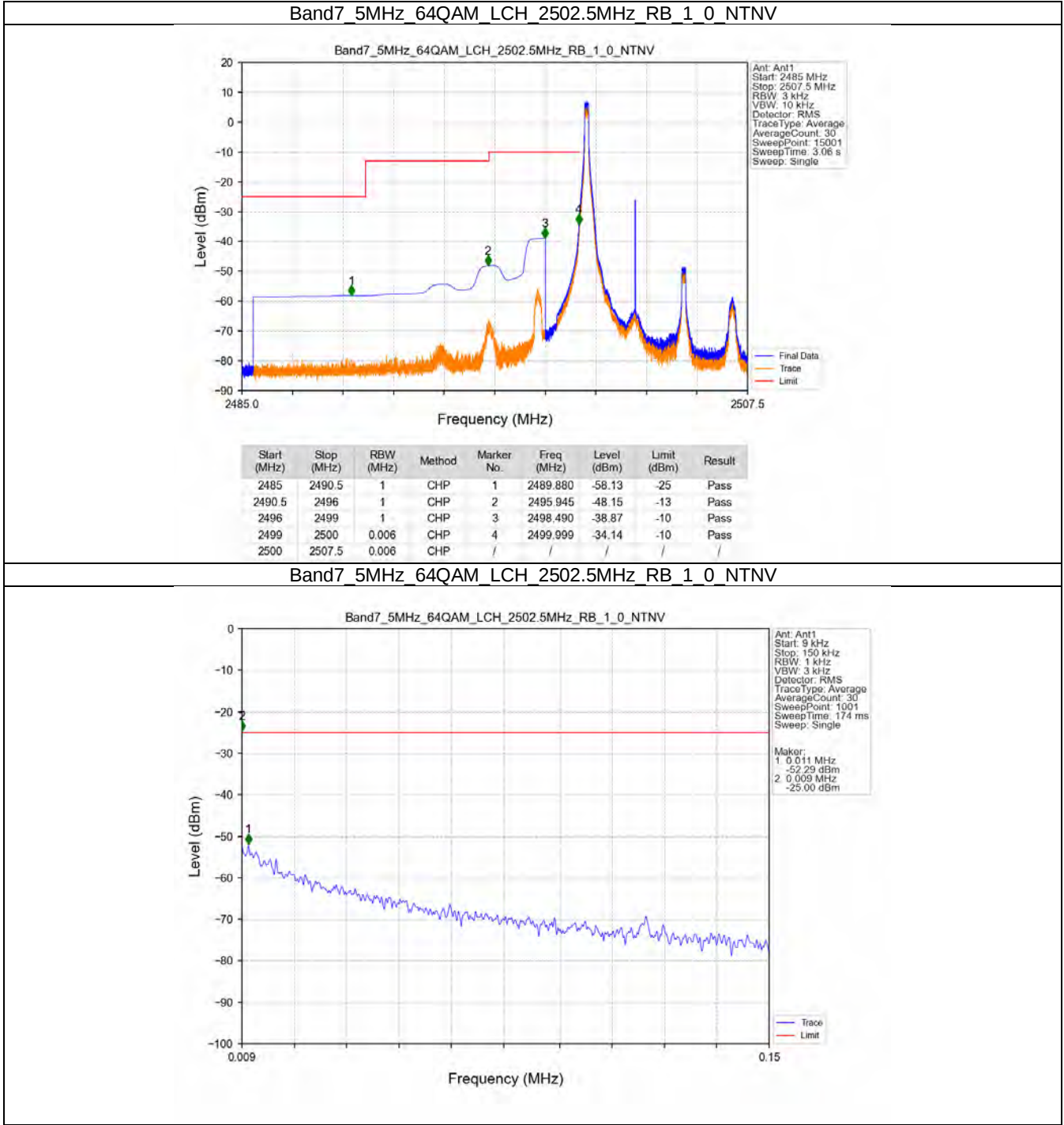
5.1.4 B7_20MHz

Band: 7 / Bandwidth: 20MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
64QAM	2510	1	0	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
	2535	1	0	Refer To Test Graph		Pass

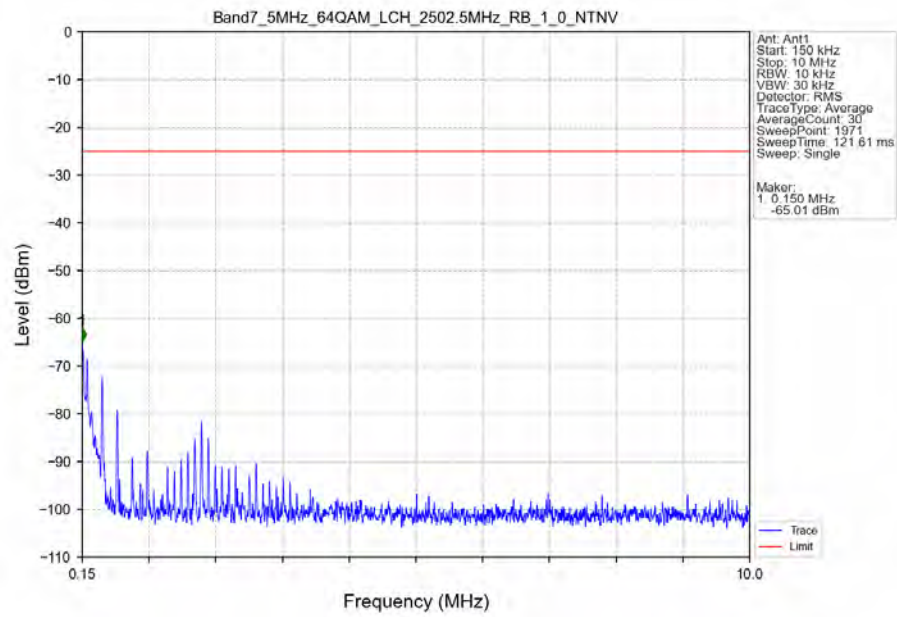
	2560	1	0	Refer To Test Graph	Pass
			99	Refer To Test Graph	Pass
		100	0	Refer To Test Graph	Pass

5.2 Test Graph

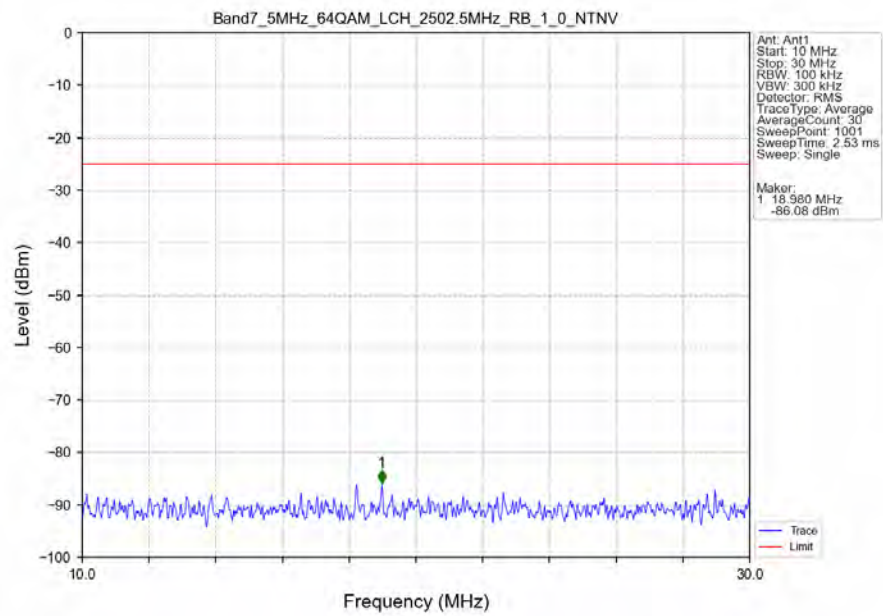
5.2.1 B7_5MHz



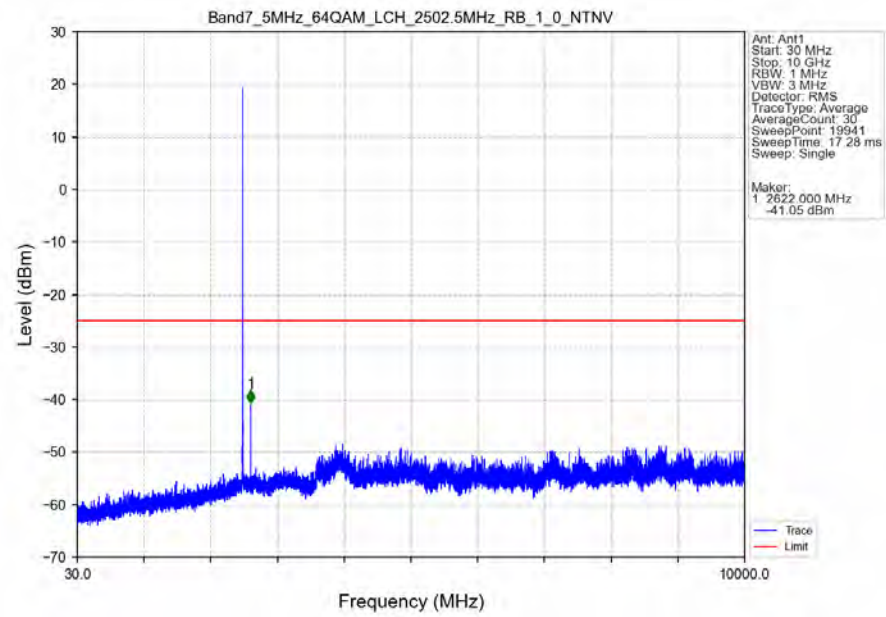
Band7_5MHz_64QAM_LCH_2502.5MHz_RB_1_0_NTNV



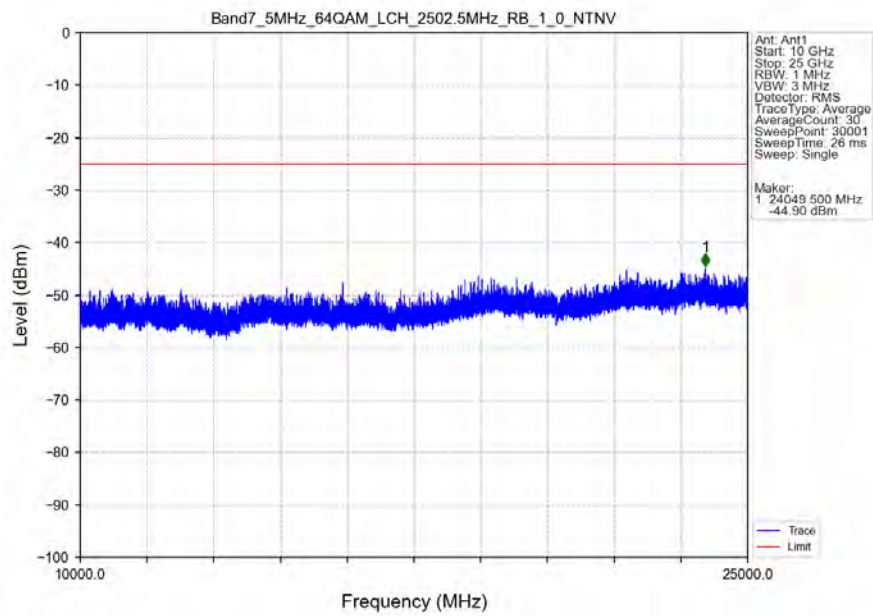
Band7_5MHz_64QAM_LCH_2502.5MHz_RB_1_0_NTNV



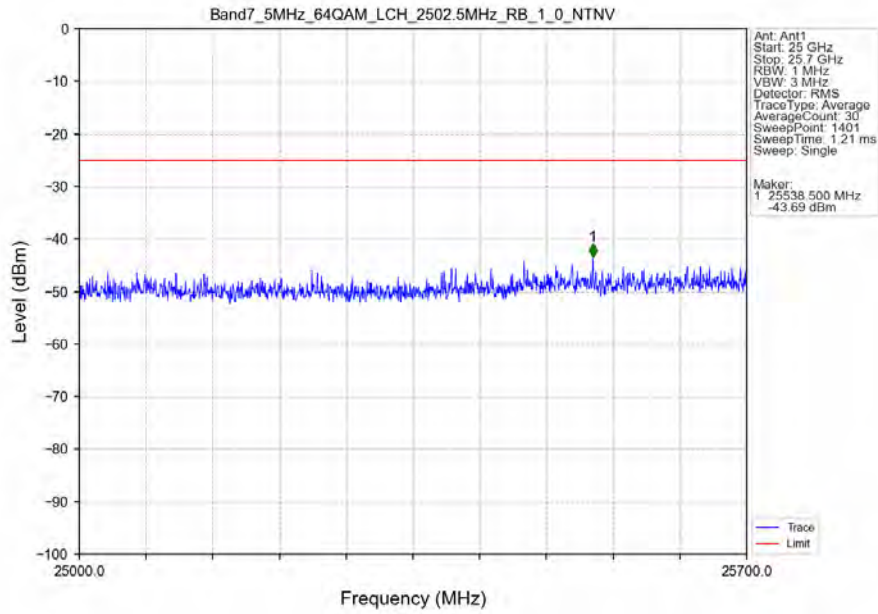
Band7_5MHz_64QAM_LCH_2502.5MHz_RB_1_0_NTNV



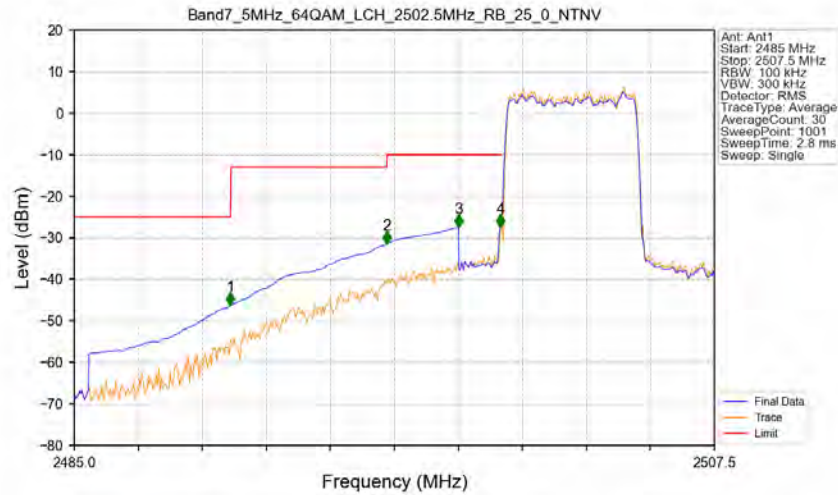
Band7_5MHz_64QAM_LCH_2502.5MHz_RB_1_0_NTNV



Band7_5MHz_64QAM_LCH_2502.5MHz_RB_1_0_NTNV

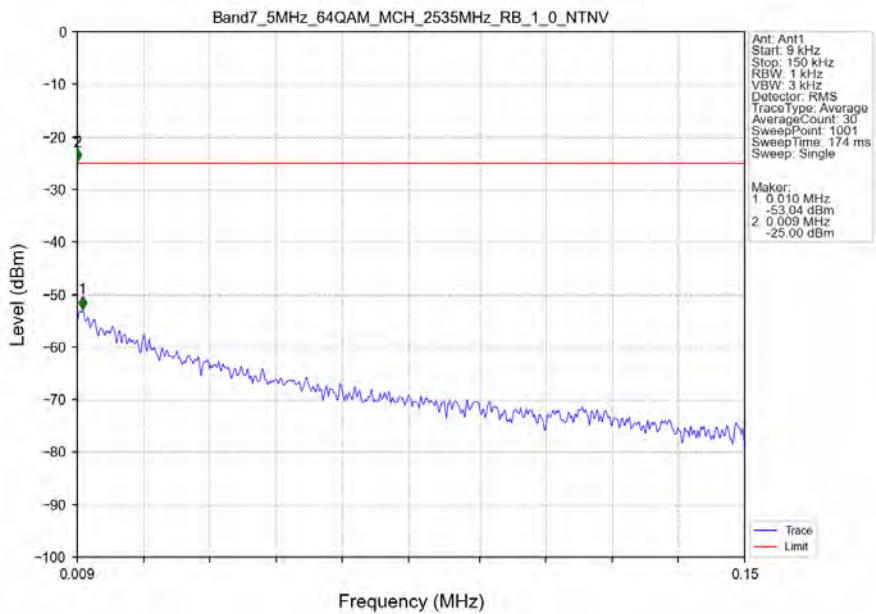


Band7_5MHz_64QAM_LCH_2502.5MHz_RB_25_0_NTNV

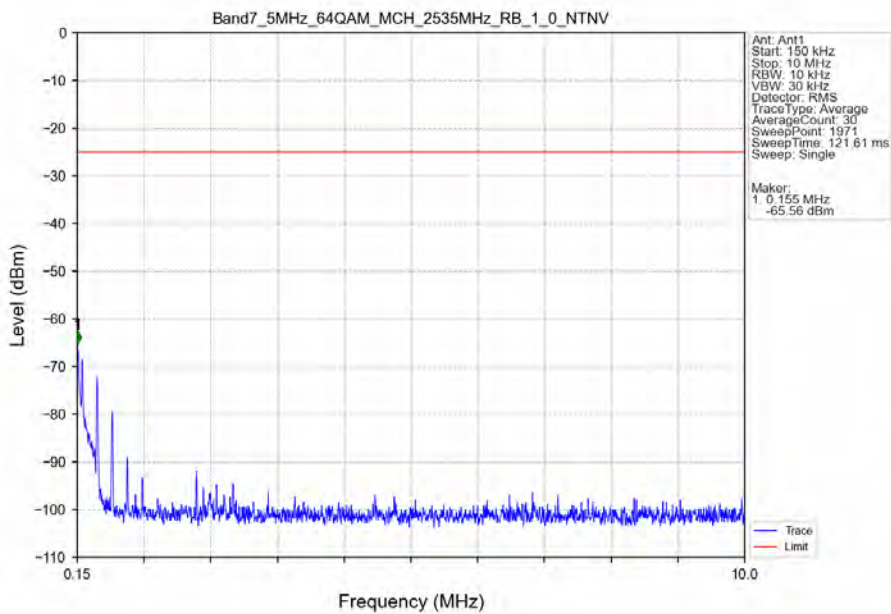


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2490.490	-46.30	-25	Pass
2490.5	2496	1	CHP	2	2495.980	-31.50	-13	Pass
2496	2499	1	CHP	3	2498.500	-27.45	-10	Pass
2499	2500	0.101	CHP	4	2499.985	-27.51	-10	Pass
2500	2507.5	0.101	CHP	/	/	/	/	/

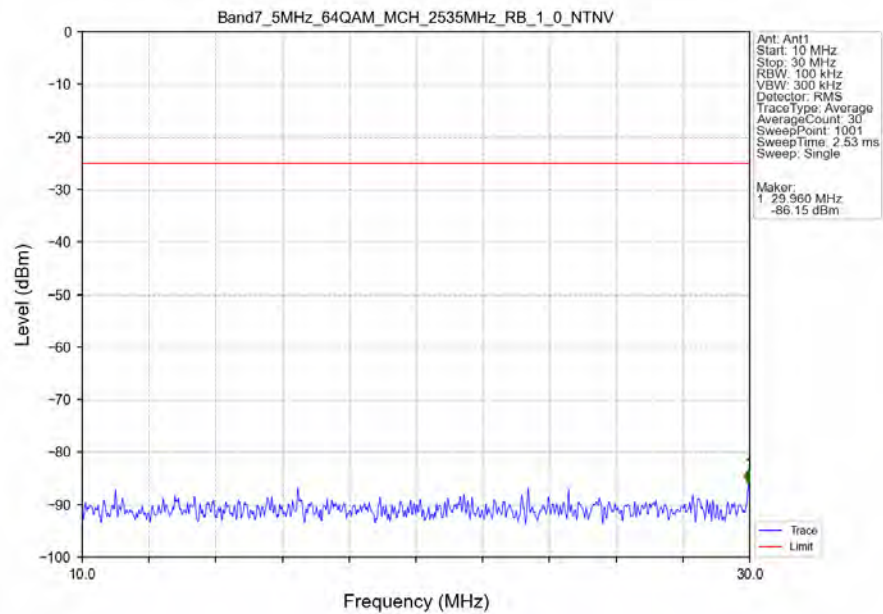
Band7_5MHz_64QAM_MCH_2535MHz_RB_1_0_NTNV



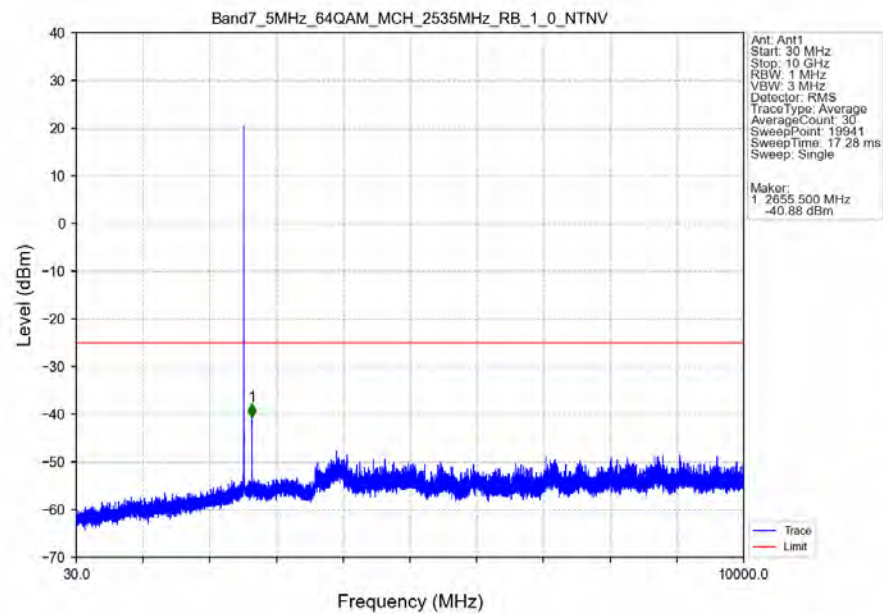
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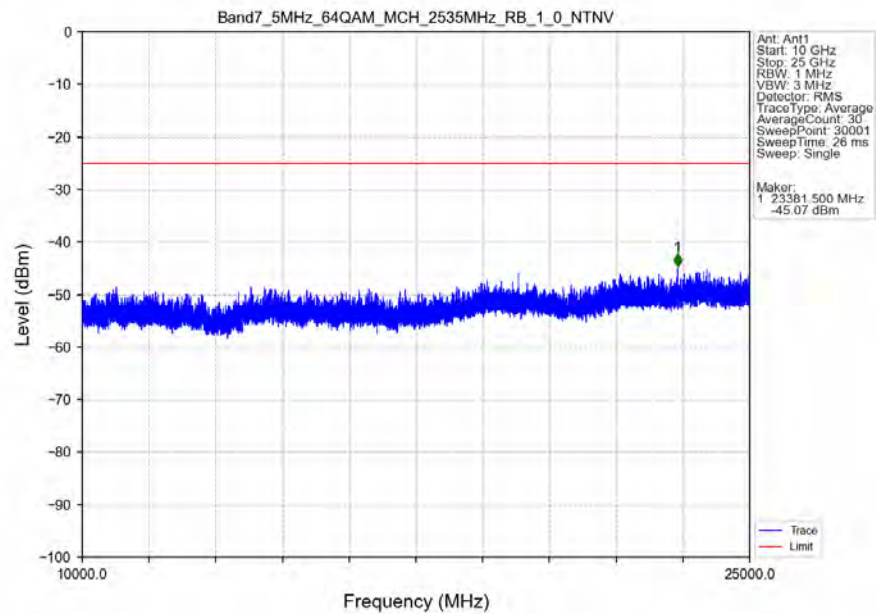
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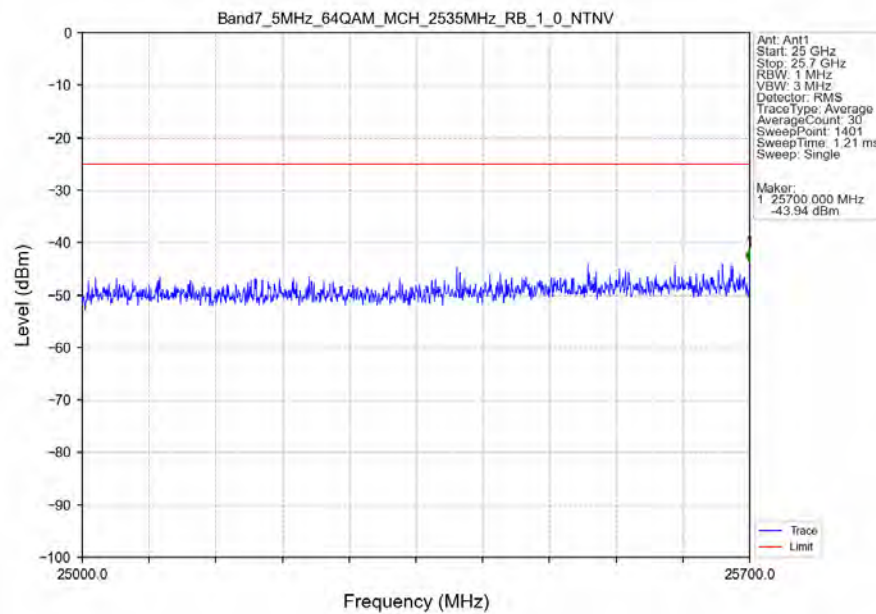
Band7_5MHz_64QAM_MCH_2535MHz_RB_1_0_NTNV



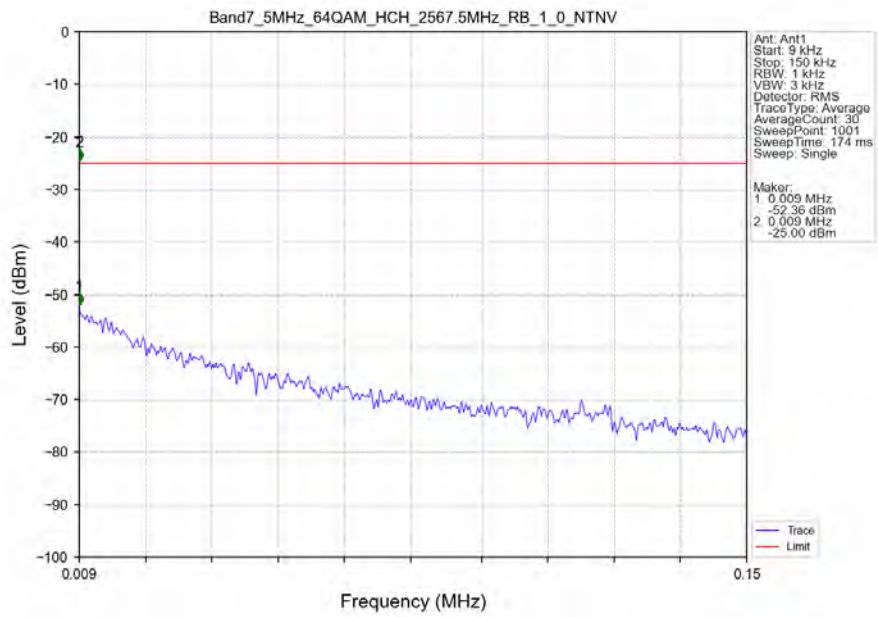
Band7_5MHz_64QAM_MCH_2535MHz_RB_1_0_NTNV



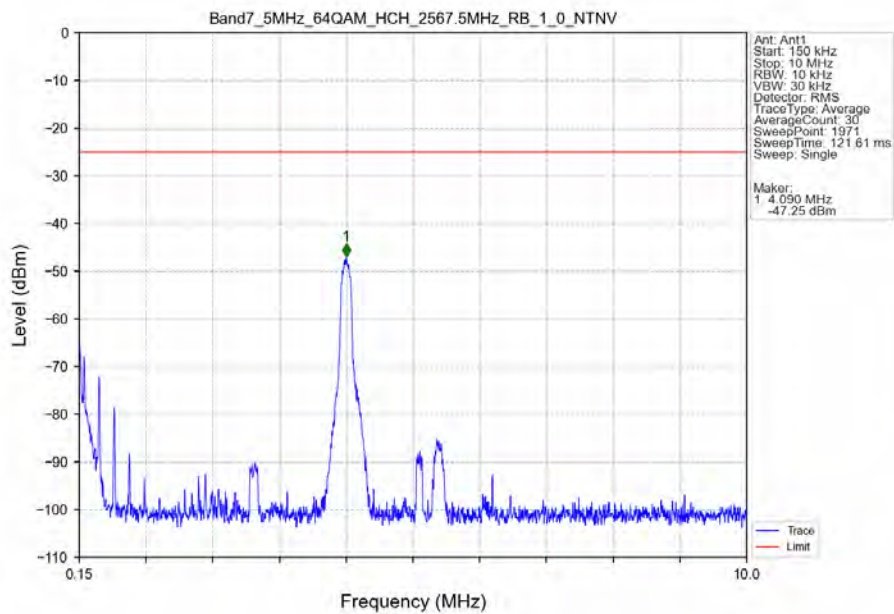
Band7_5MHz_64QAM_MCH_2535MHz_RB_1_0_NTNV



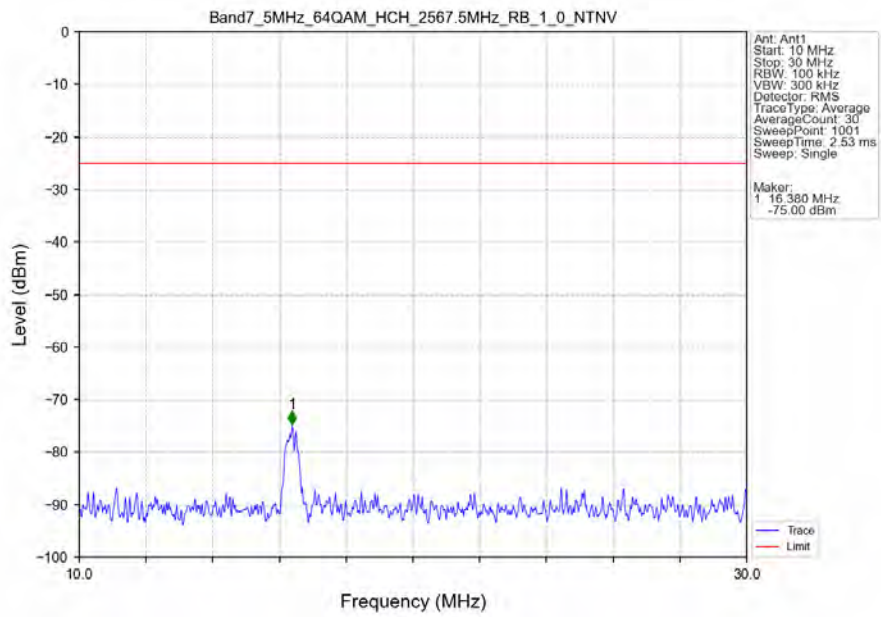
Band7_5MHz_64QAM_HCH_2567.5MHz_RB_1_0_NTNV



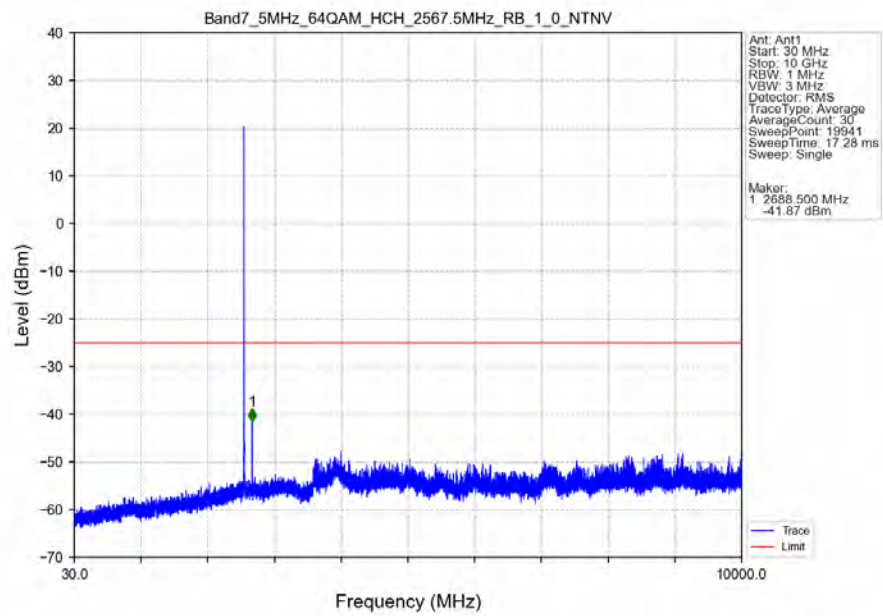
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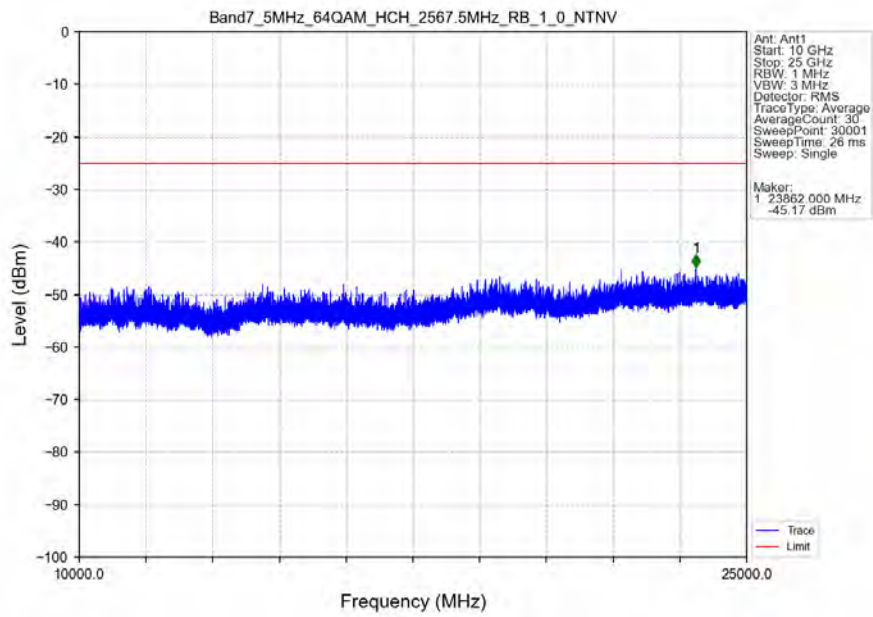
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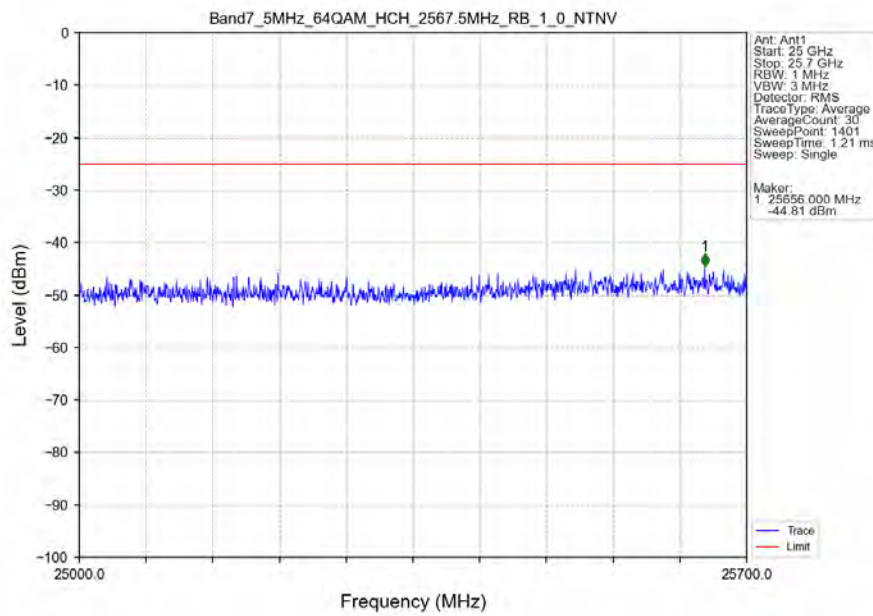
Band7_5MHz_64QAM_HCH_2567.5MHz_RB_1_0_NTNV



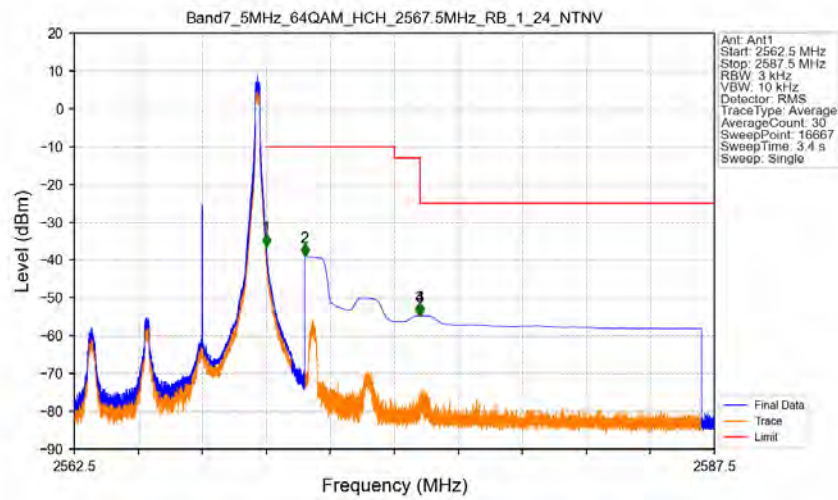
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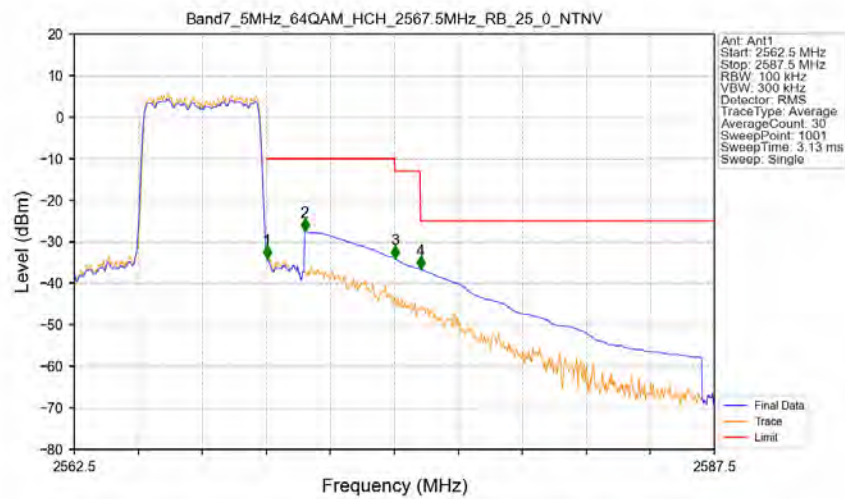
Band7_5MHz_64QAM_HCH_2567.5MHz_RB_1_0_NTNV



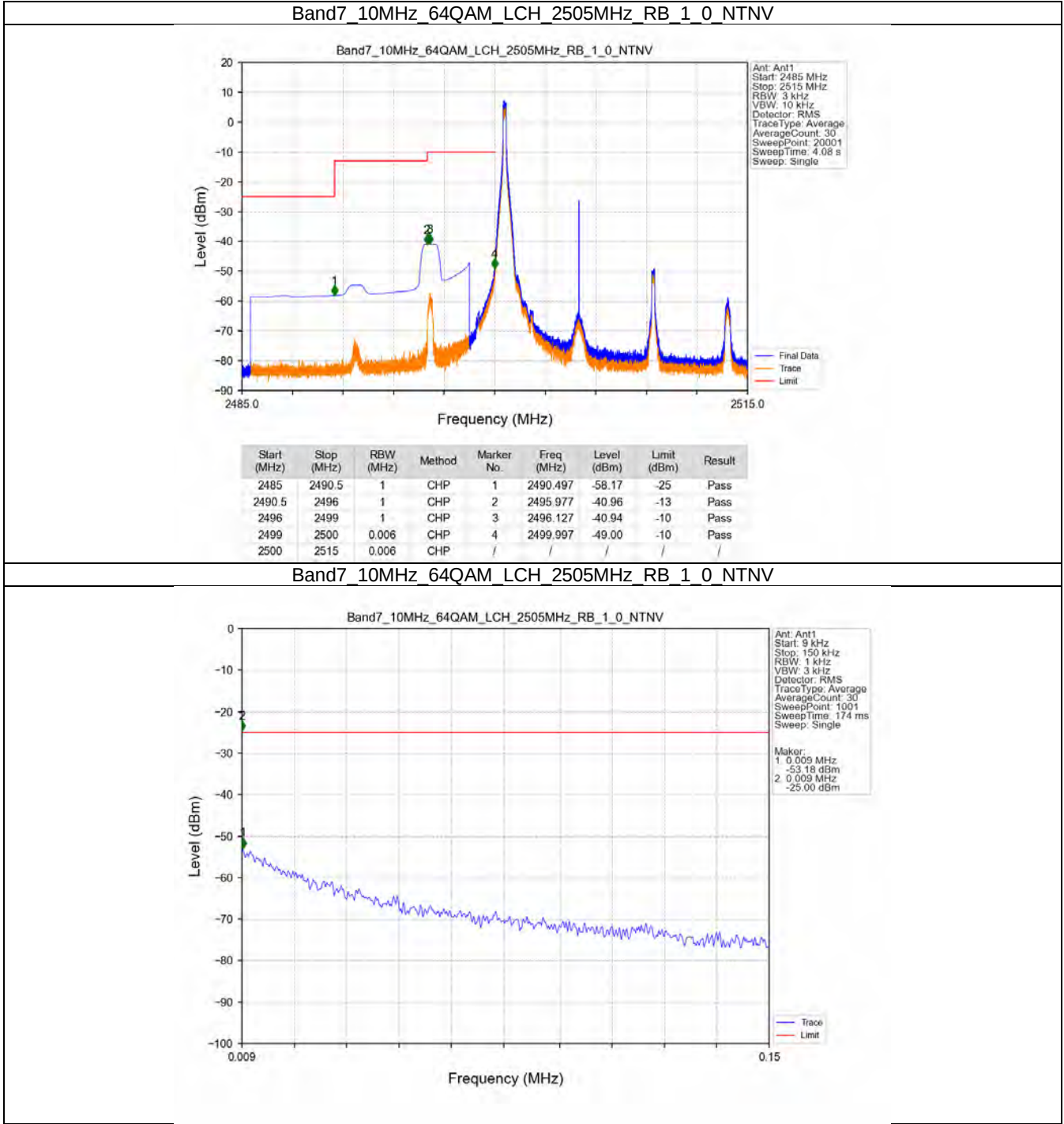
Band7 5MHz 64QAM HCH 2567.5MHz RB 1 24 NTV



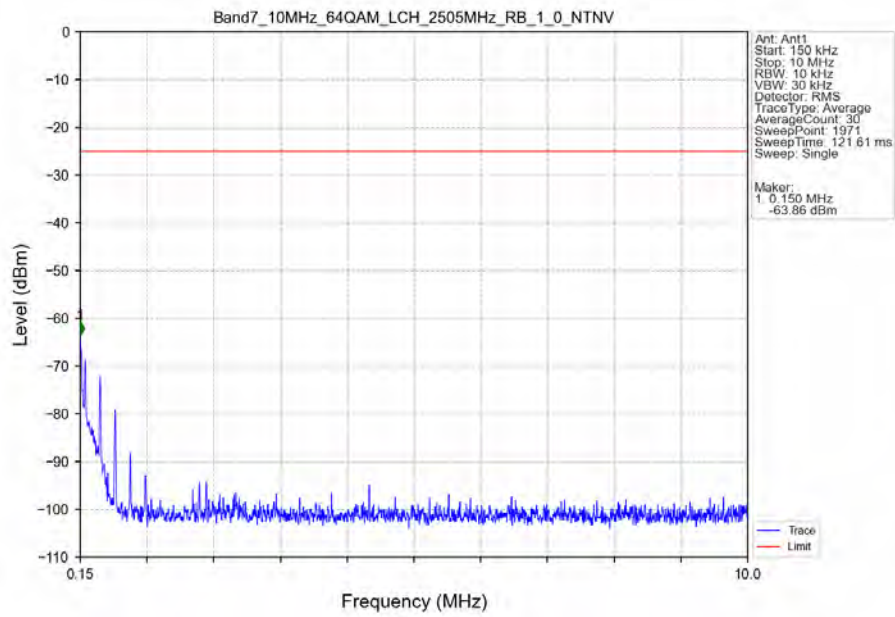
Band7 5MHz 64QAM HCH 2567.5MHz RB 25 0 NTV



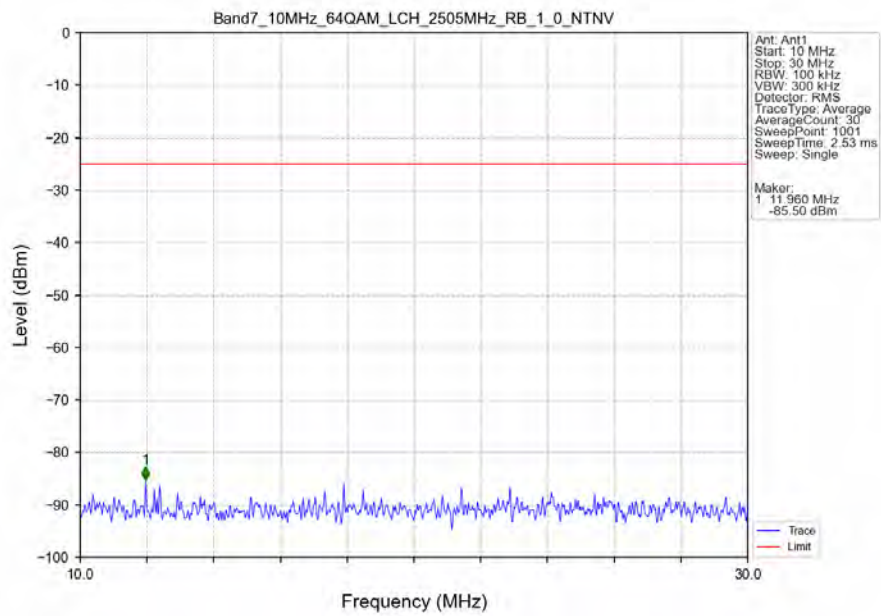
5.2.2 B7_10MHz



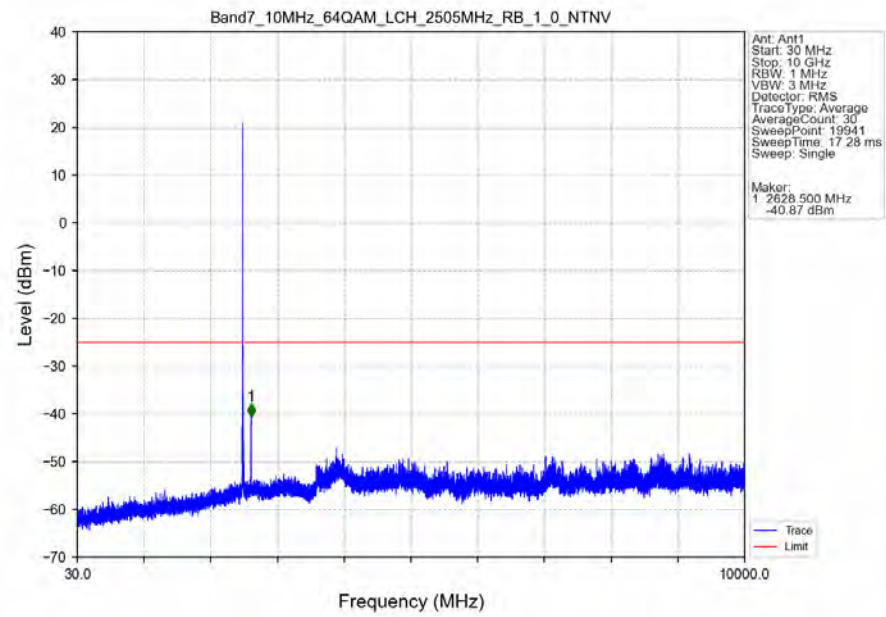
Band7_10MHz_64QAM_LCH_2505MHz_RB_1_0_NTNV



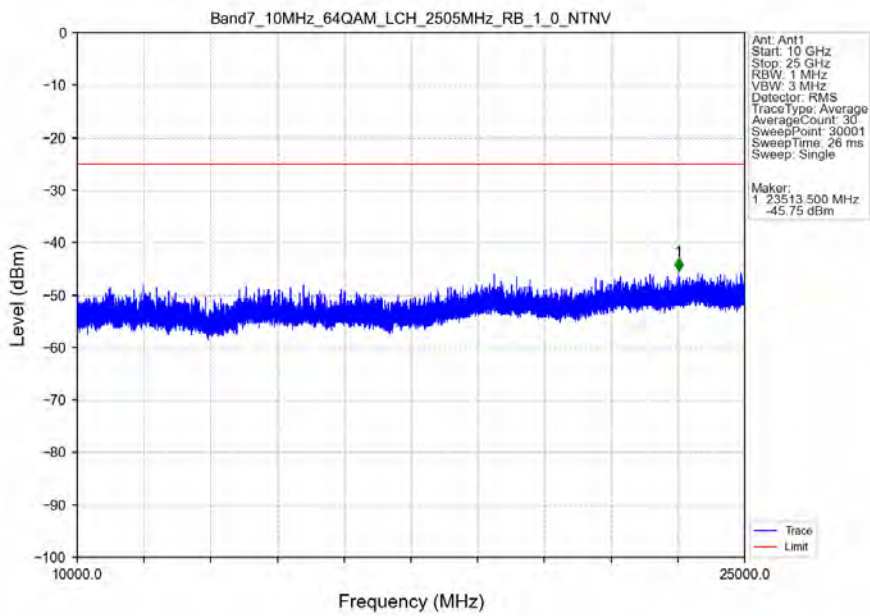
Band7_10MHz_64QAM_LCH_2505MHz_RB_1_0_NTNV



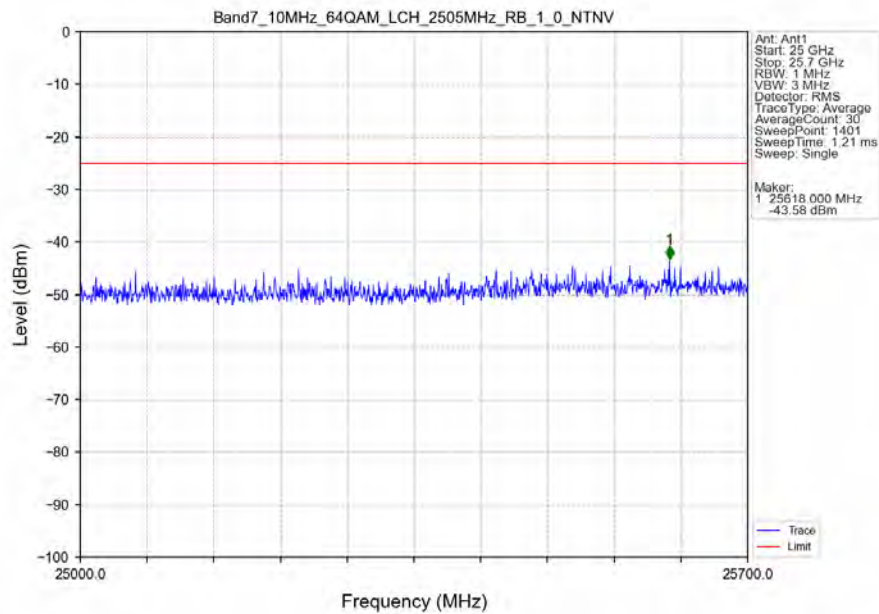
Band7_10MHz_64QAM_LCH_2505MHz_RB_1_0_NTNV



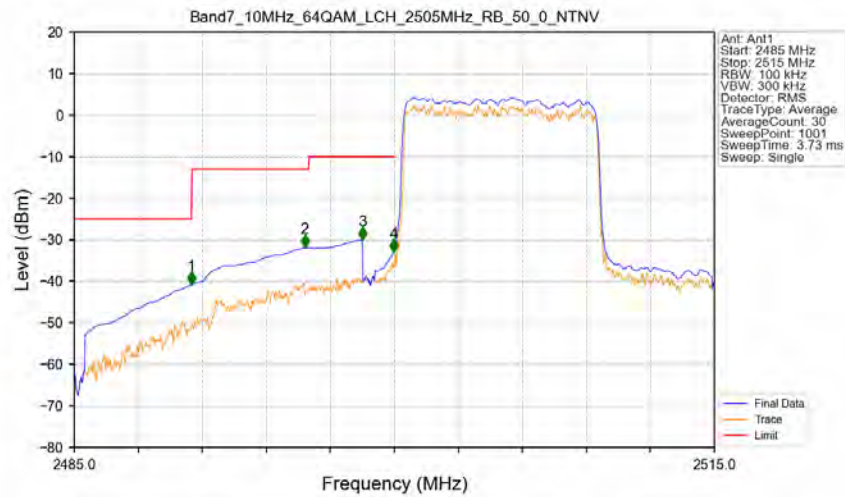
Band7_10MHz_64QAM_LCH_2505MHz_RB_1_0_NTNV



Band7_10MHz_64QAM_LCH_2505MHz_RB_1_0_NTNV

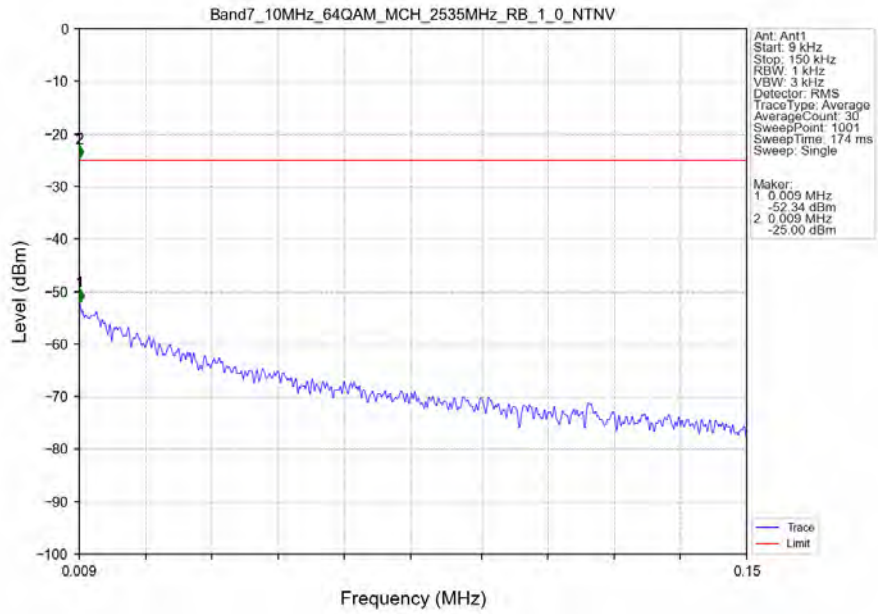


Band7_10MHz_64QAM_LCH_2505MHz_RB_50_0_NTNV

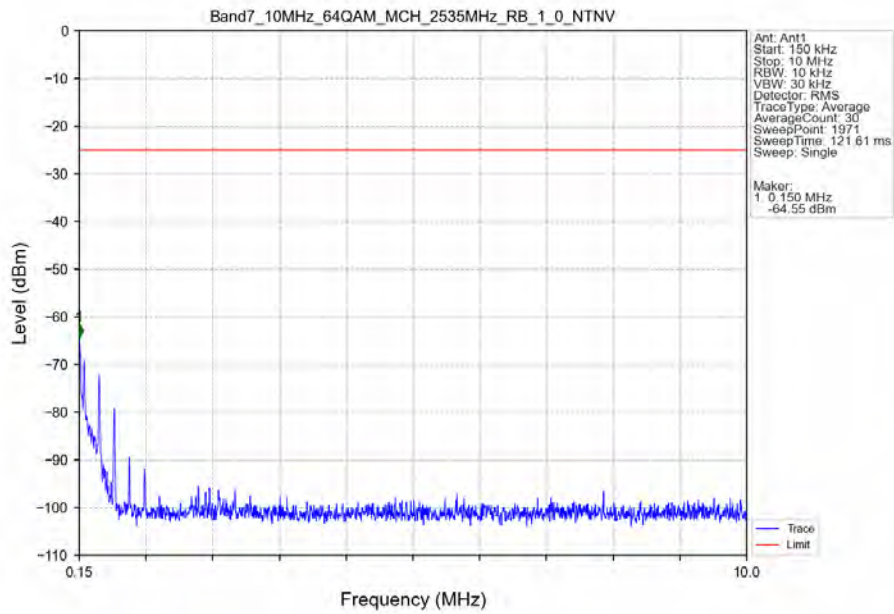


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2490.490	-40.72	-25	Pass
2490.5	2496	1	CHP	2	2495.800	-31.93	-13	Pass
2496	2499	1	CHP	3	2498.500	-30.07	-10	Pass
2499	2500	0.199	CHP	4	2499.970	-33.01	-10	Pass
2500	2515	0.199	CHP	/	/	/	/	/

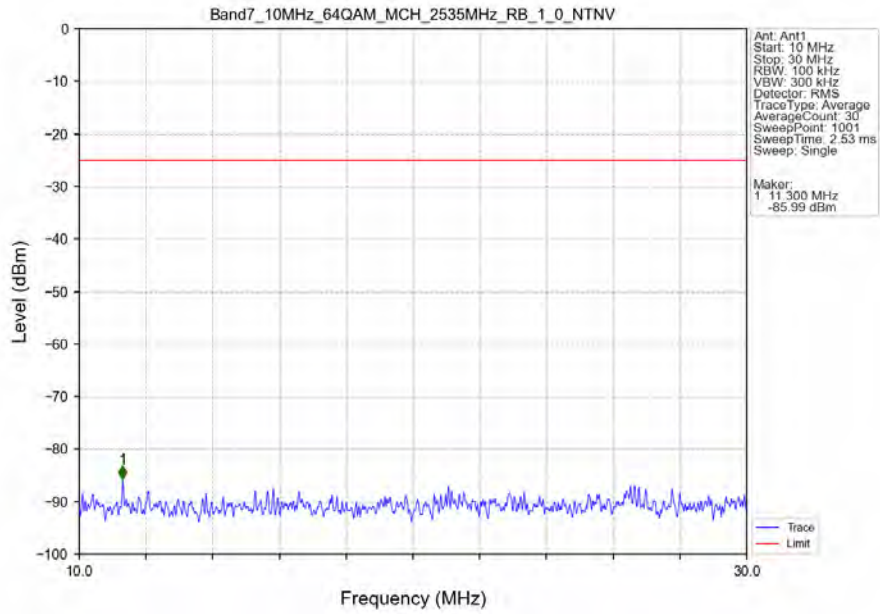
Band7_10MHz_64QAM_MCH_2535MHz_RB_1_0_NTNV



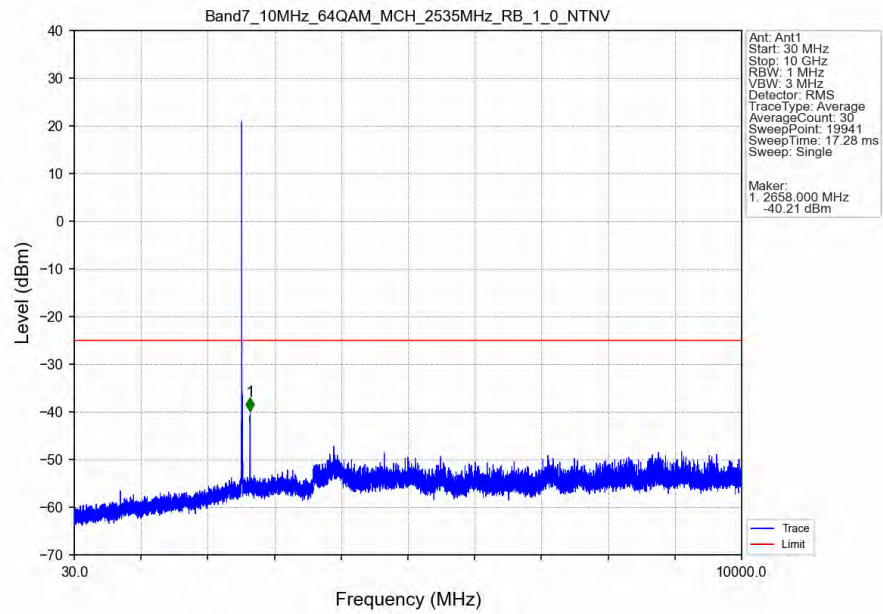
Band7_10MHz_64QAM_MCH_2535MHz_RB_1_0_NTNV



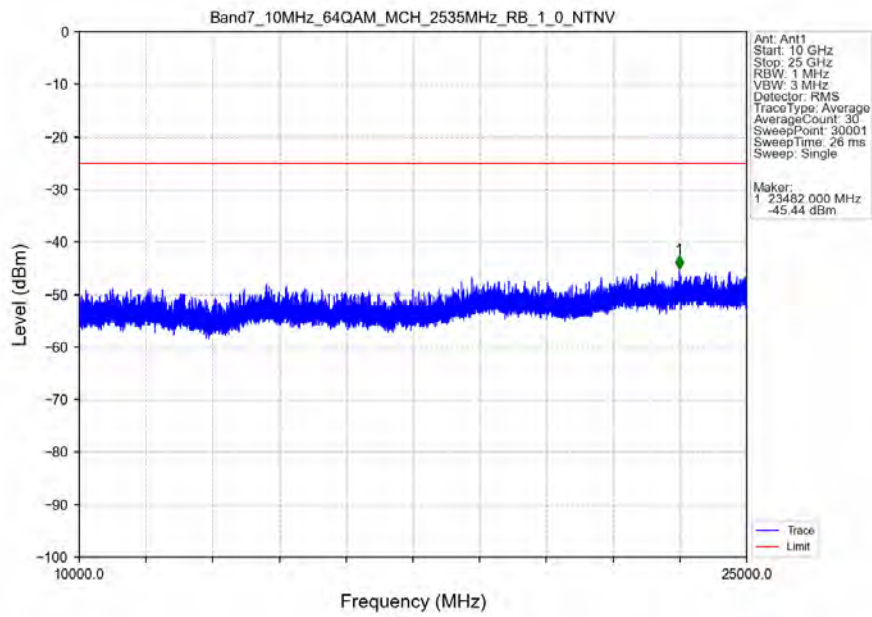
Band7_10MHz_64QAM_MCH_2535MHz_RB_1_0_NTNV



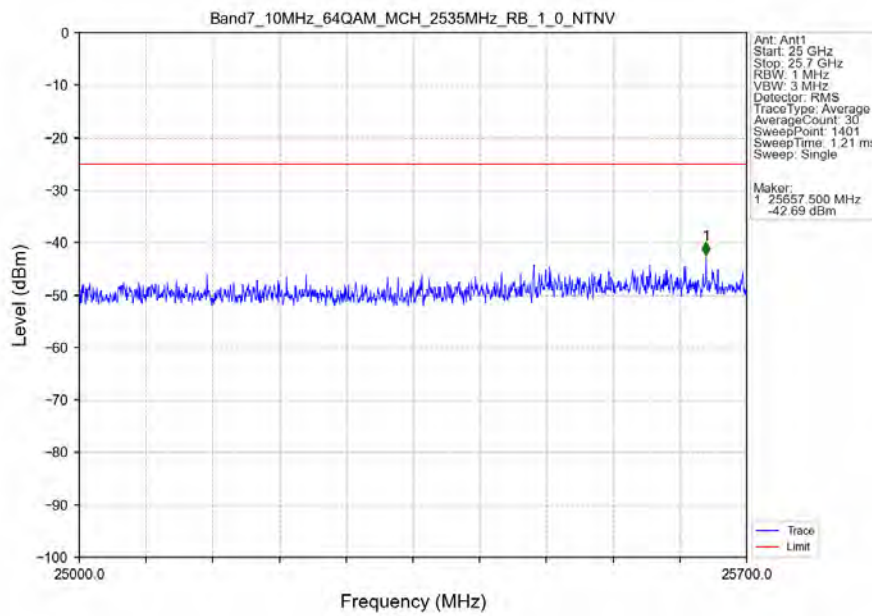
Band7_10MHz_64QAM_MCH_2535MHz_RB_1_0_NTNV



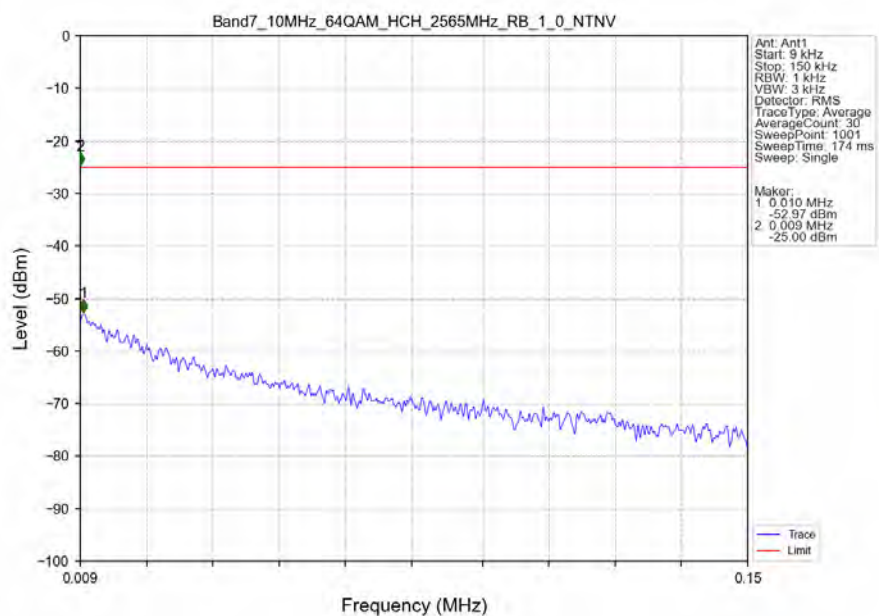
Band7_10MHz_64QAM_MCH_2535MHz_RB_1_0_NTNV



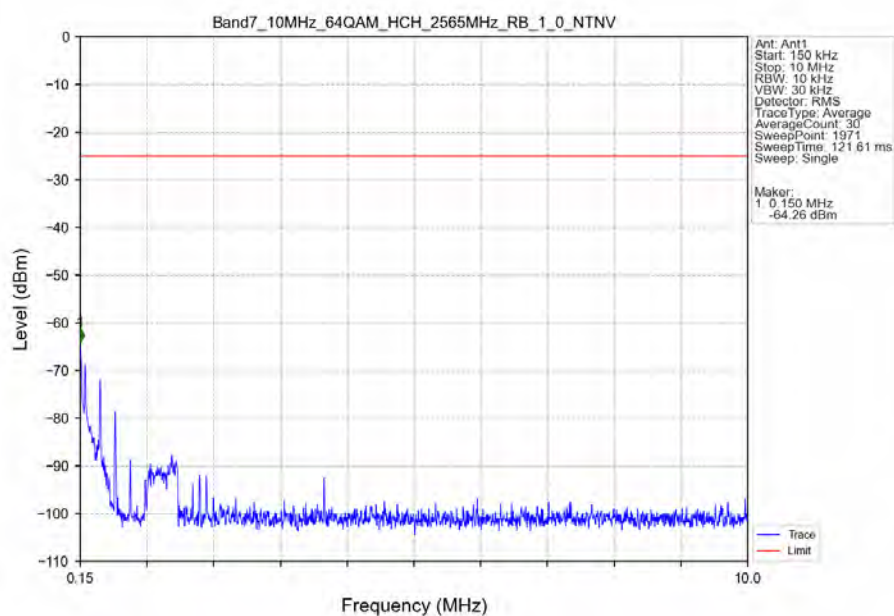
Band7_10MHz_64QAM_MCH_2535MHz_RB_1_0_NTNV



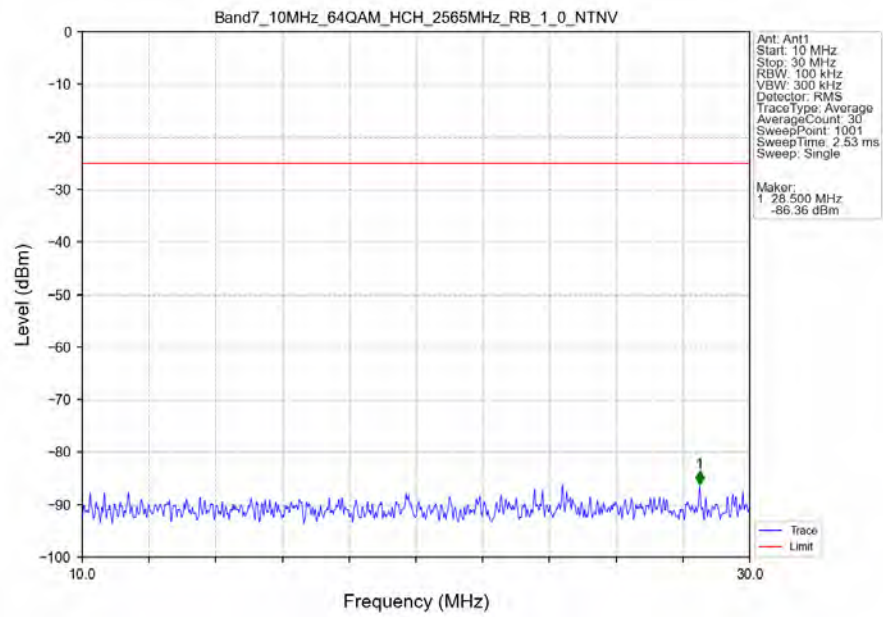
Band7_10MHz_64QAM_HCH_2565MHz_RB_1_0_NTNV



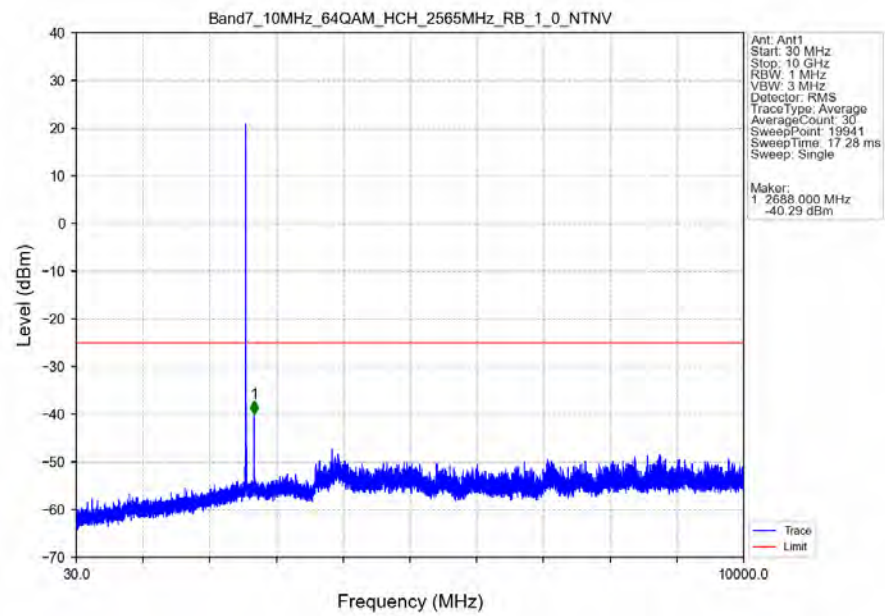
Band7_10MHz_64QAM_HCH_2565MHz_RB_1_0_NTNV



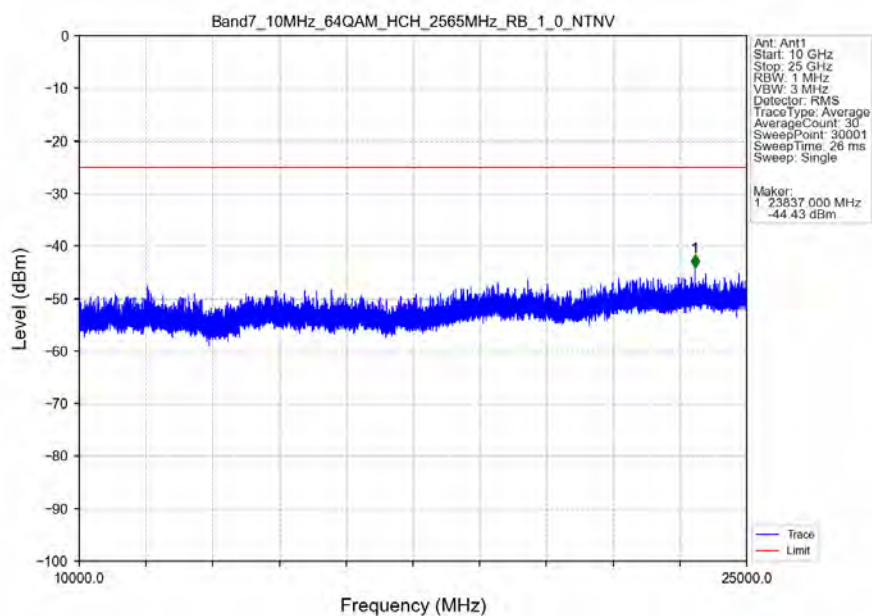
Band7_10MHz_64QAM_HCH_2565MHz_RB_1_0_NTNV



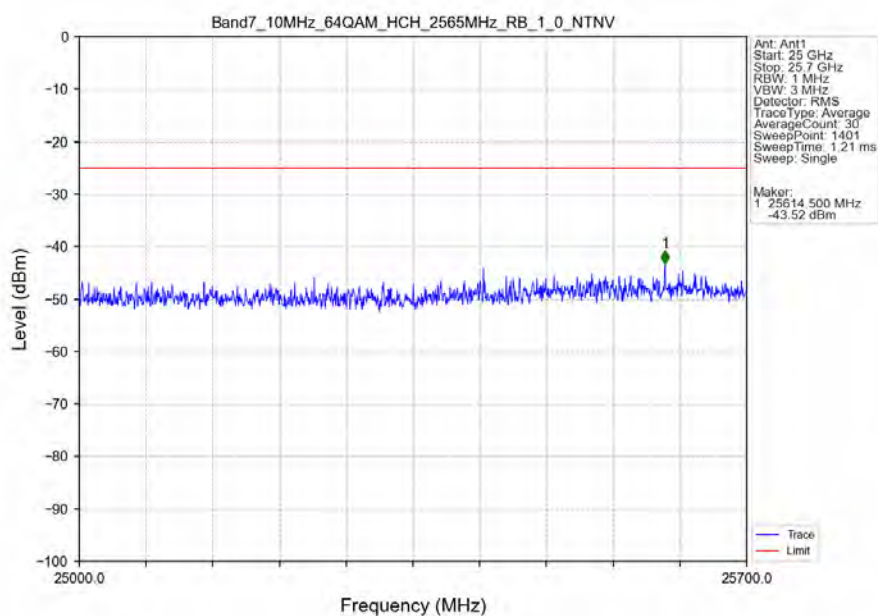
Band7_10MHz_64QAM_HCH_2565MHz_RB_1_0_NTNV



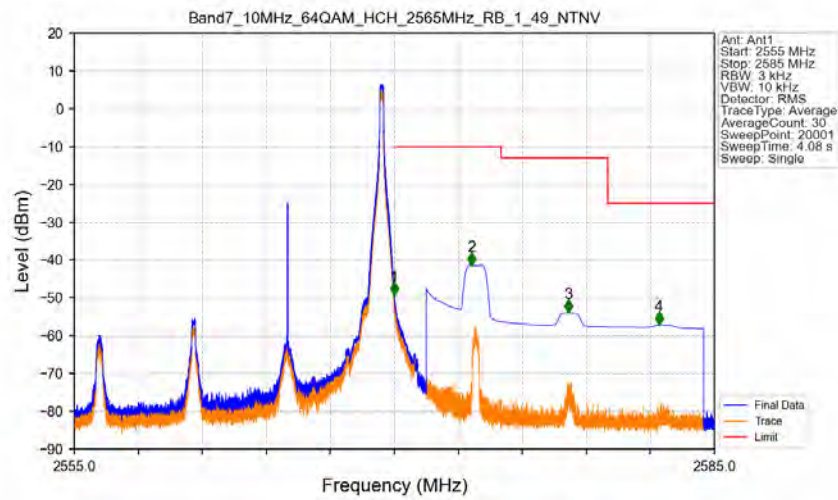
Band7_10MHz_64QAM_HCH_2565MHz_RB_1_0_NTNV



Band7_10MHz_64QAM_HCH_2565MHz_RB_1_0_NTNV

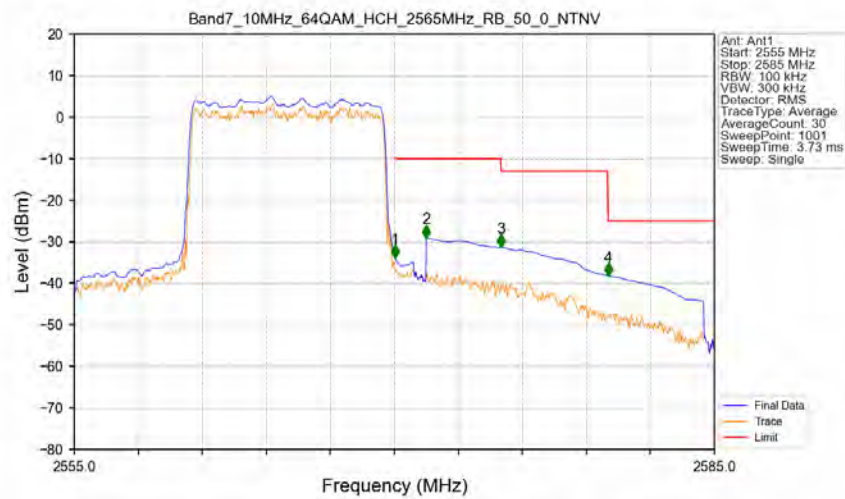


Band7_10MHz_64QAM_HCH_2565MHz_RB_1_49_NTNV



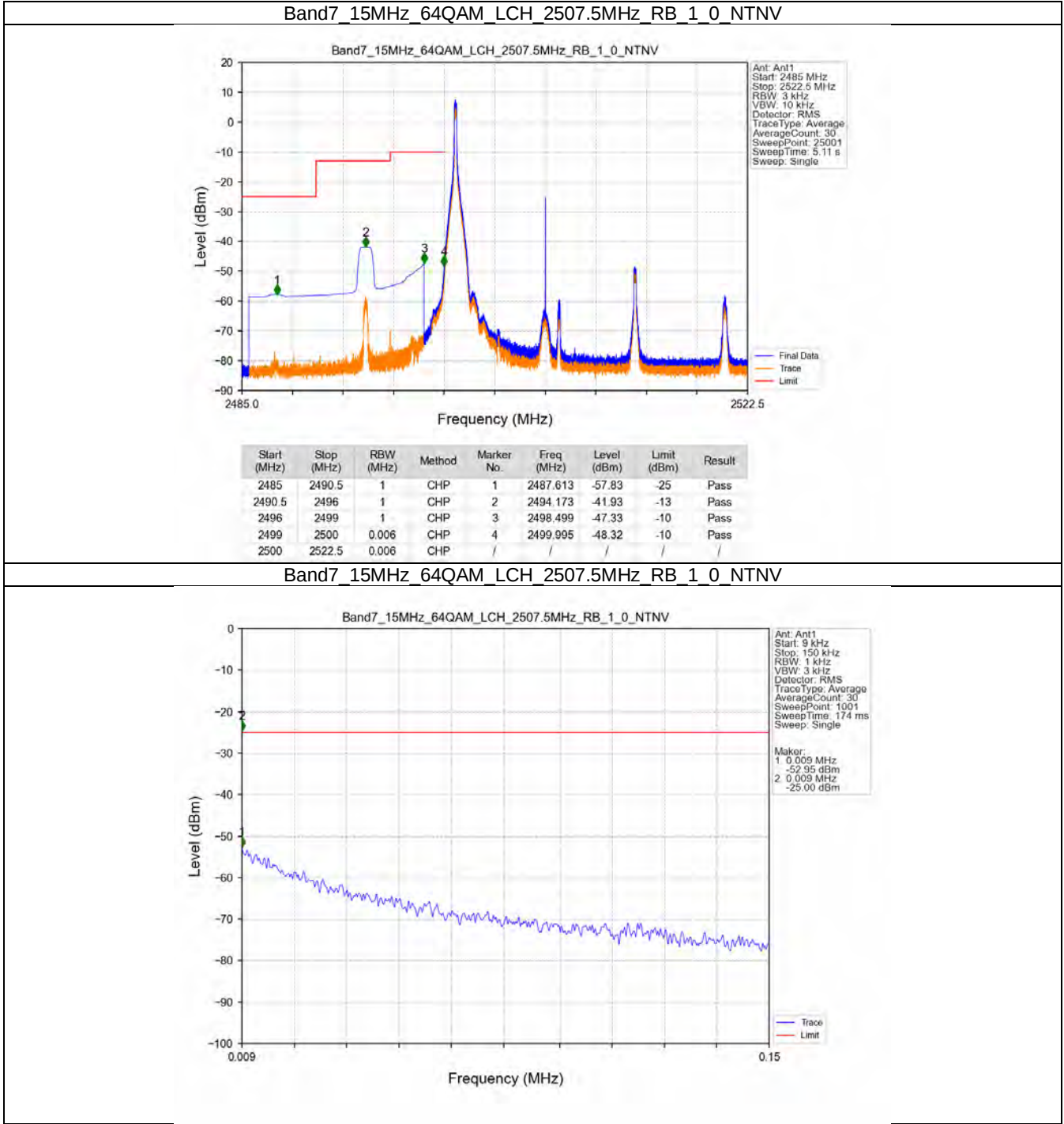
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2555	2570	0.006	CHP	/	/	/	/	/
2570	2571	0.006	CHP	1	2570.001	-49.19	-10	Pass
2571	2575	1	CHP	2	2573.631	-41.45	-10	Pass
2575	2580	1	CHP	3	2578.153	-53.97	-13	Pass
2580	2585	1	CHP	4	2582.408	-57.16	-25	Pass

Band7_10MHz_64QAM_HCH_2565MHz_RB_50_0_NTNV

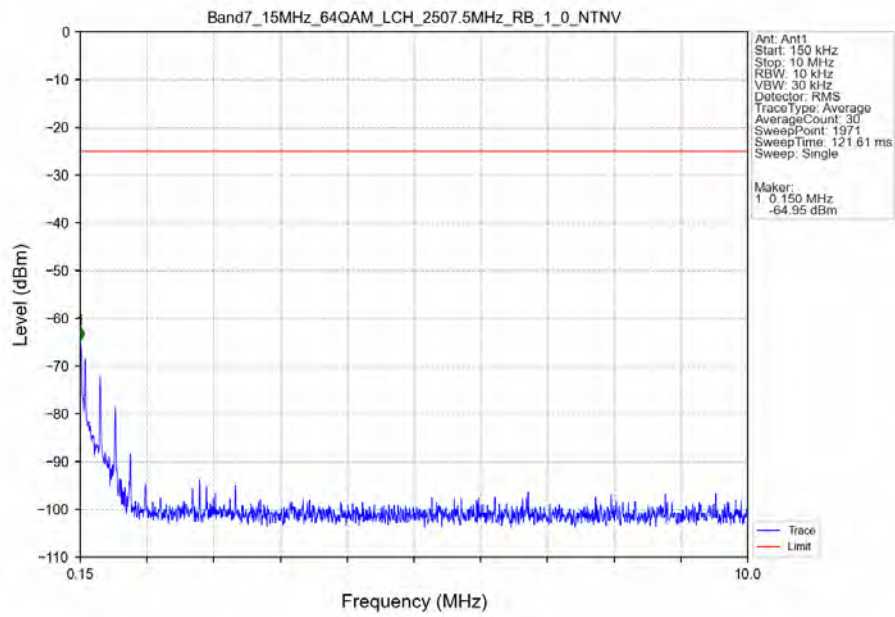


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2555	2570	0.199	CHP	/	/	/	/	/
2570	2571	0.199	CHP	1	2570.030	-33.93	-10	Pass
2571	2575	1	CHP	2	2571.500	-29.03	-10	Pass
2575	2580	1	CHP	3	2575.010	-31.31	-13	Pass
2580	2585	1	CHP	4	2580.020	-38.23	-25	Pass

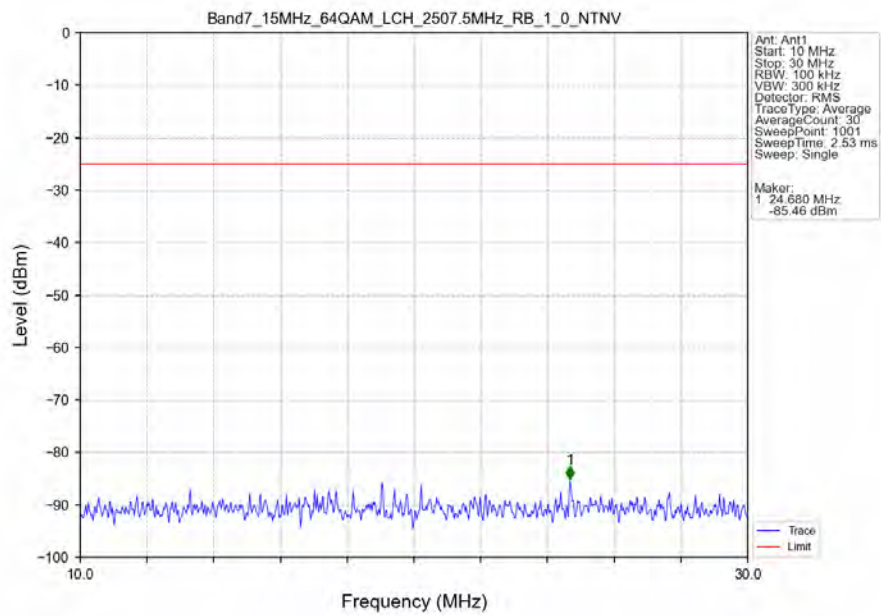
5.2.3 B7_15MHz



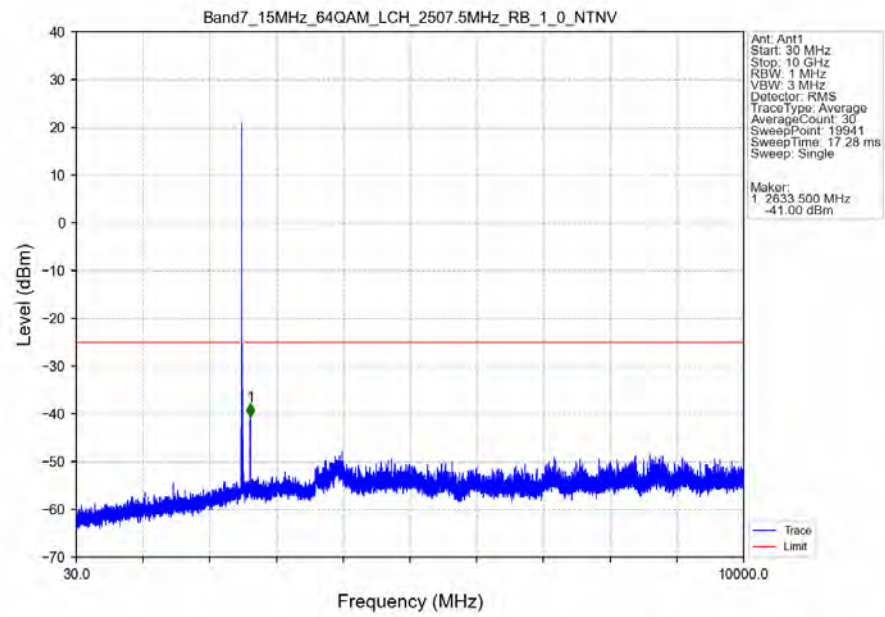
Band7_15MHz_64QAM_LCH_2507.5MHz_RB_1_0_NTNV



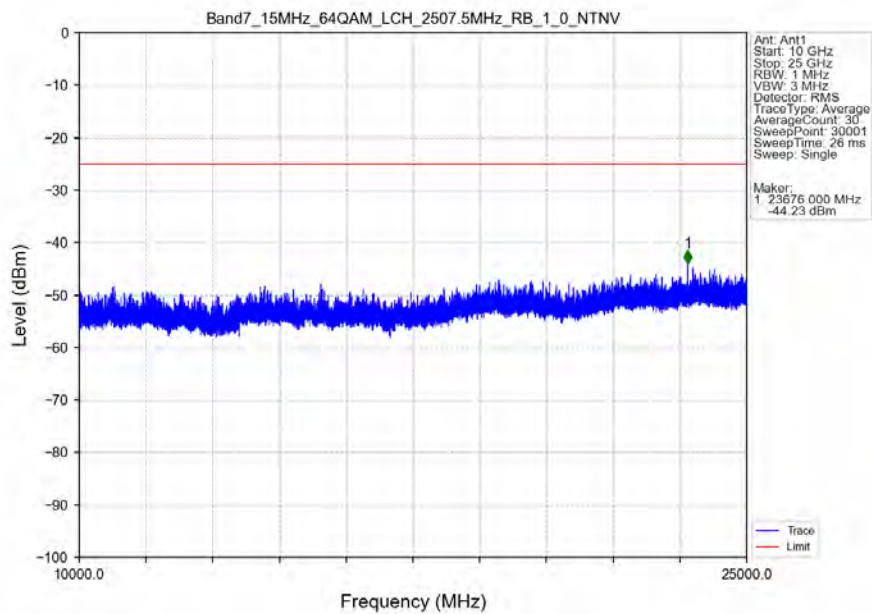
Band7_15MHz_64QAM_LCH_2507.5MHz_RB_1_0_NTNV



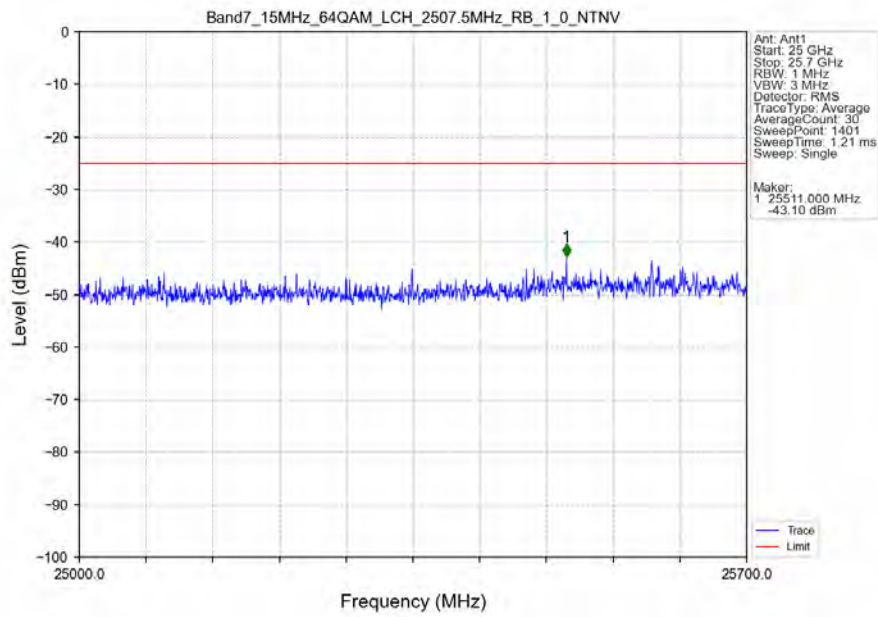
Band7_15MHz_64QAM_LCH_2507.5MHz_RB_1_0_NTNV



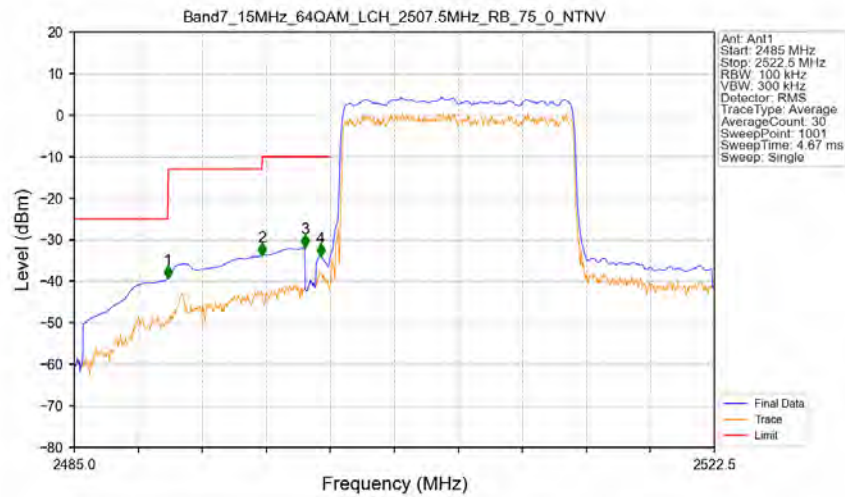
Band7_15MHz_64QAM_LCH_2507.5MHz_RB_1_0_NTNV



Band7_15MHz_64QAM_LCH_2507.5MHz_RB_1_0_NTNV

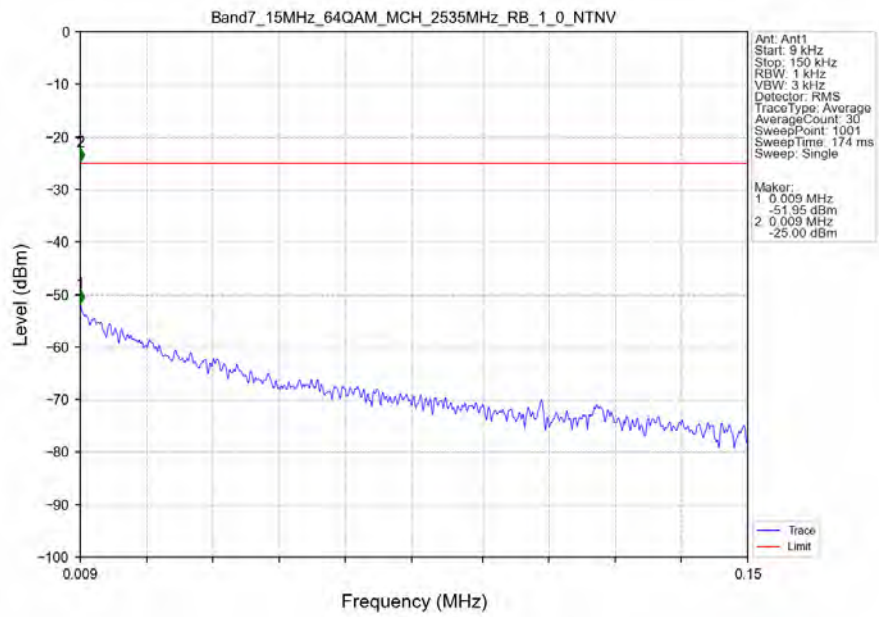


Band7_15MHz_64QAM_LCH_2507.5MHz_RB_75_0_NTNV

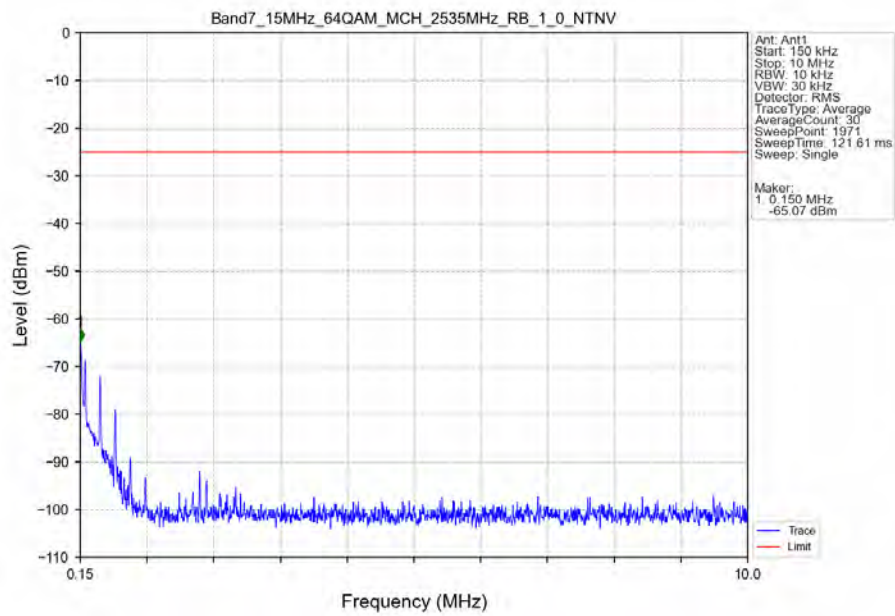


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2490.475	-39.38	-25	Pass
2490.5	2496	1	CHP	2	2495.988	-33.81	-13	Pass
2496	2499	1	CHP	3	2498.500	-31.88	-10	Pass
2499	2500	0.297	CHP	4	2499.438	-33.96	-10	Pass
2500	2522.5	0.297	CHP	/	/	/	/	/

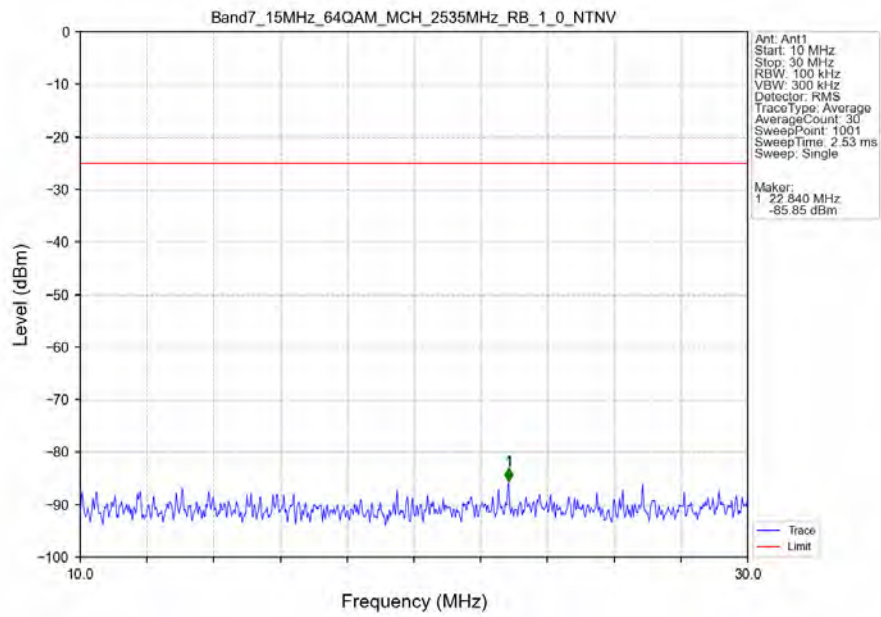
Band7_15MHz_64QAM_MCH_2535MHz_RB_1_0_NTNV



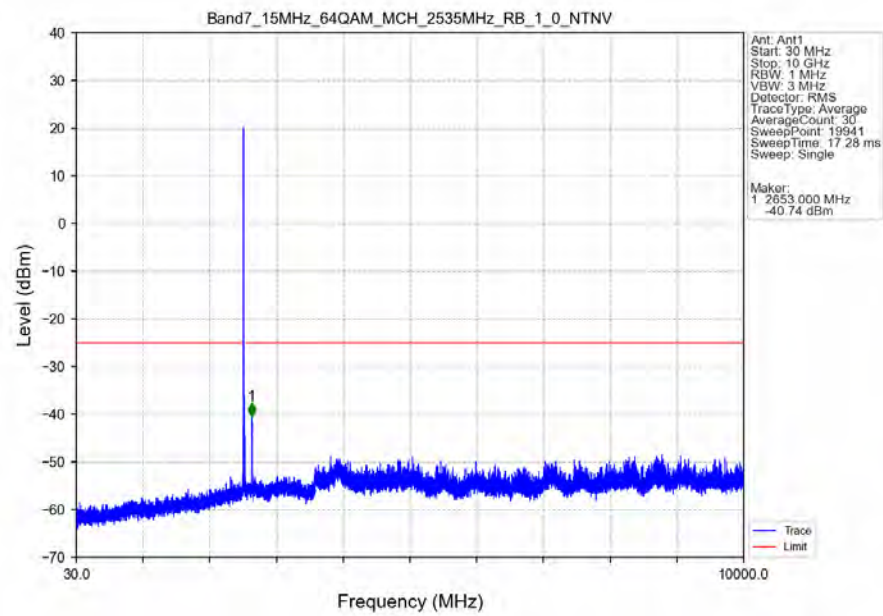
Band7_15MHz_64QAM_MCH_2535MHz_RB_1_0_NTNV



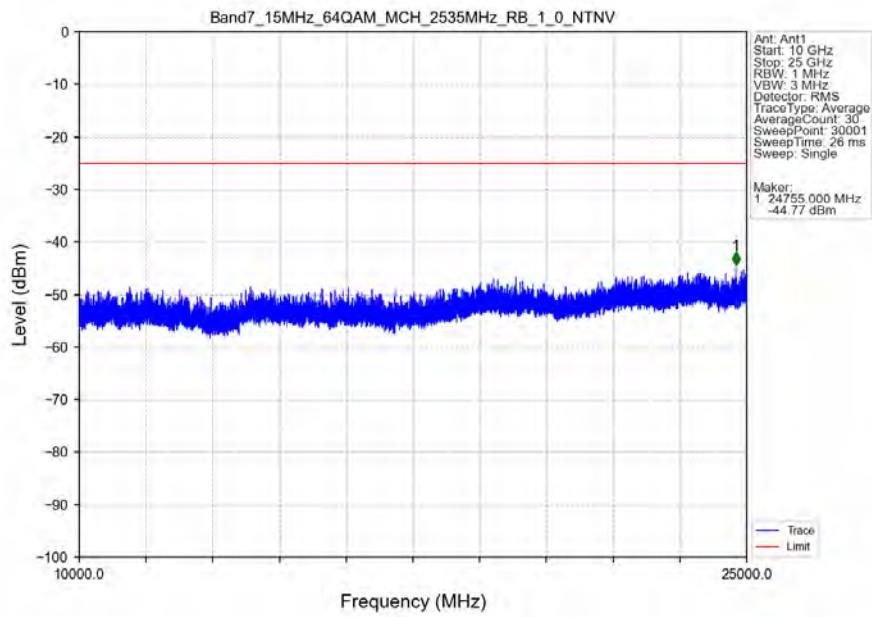
Band7_15MHz_64QAM_MCH_2535MHz_RB_1_0_NTNV



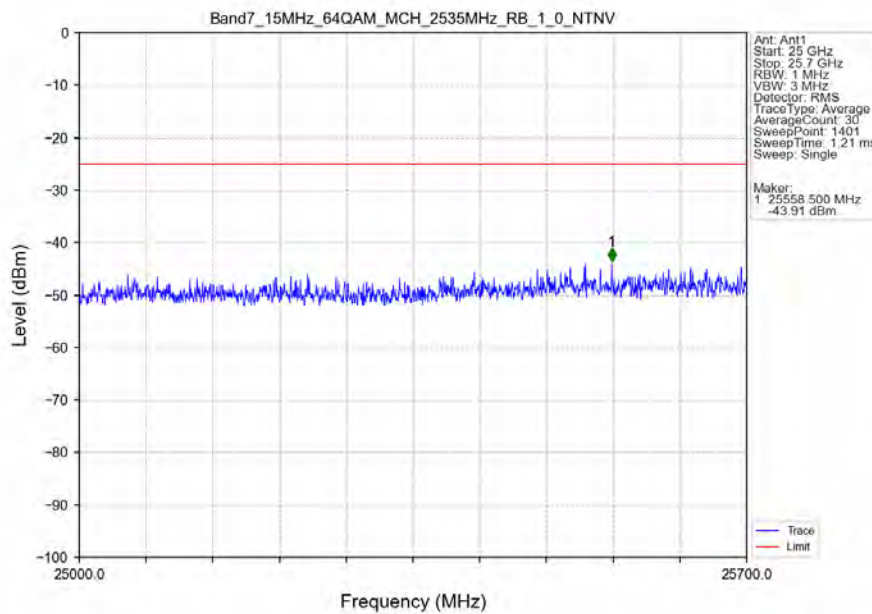
Band7_15MHz_64QAM_MCH_2535MHz_RB_1_0_NTNV



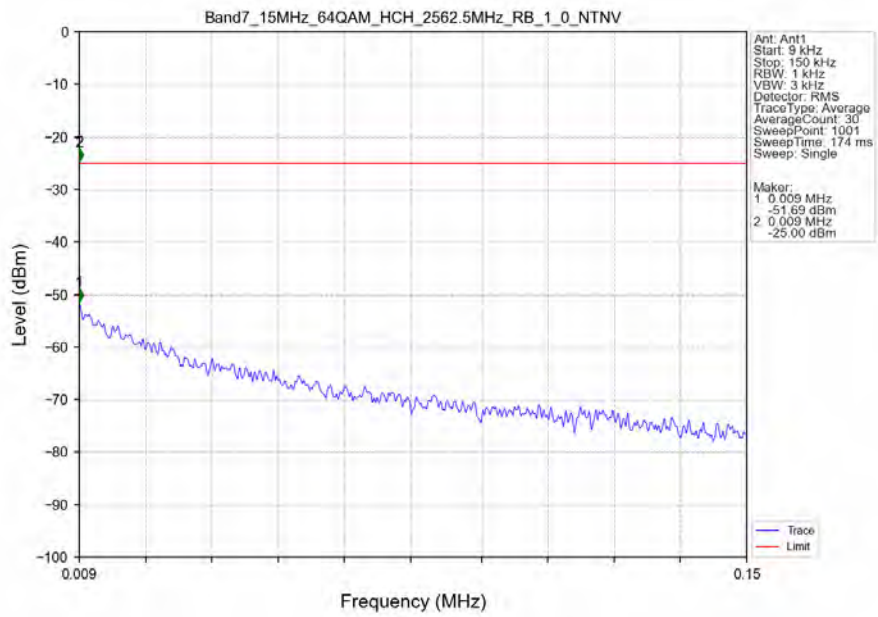
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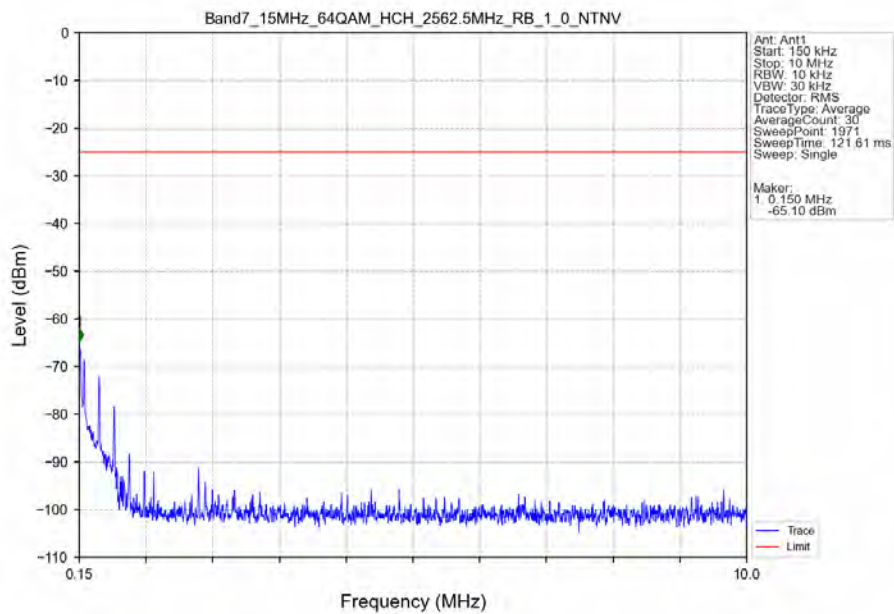
Band7_15MHz_64QAM_MCH_2535MHz_RB_1_0_NTNV



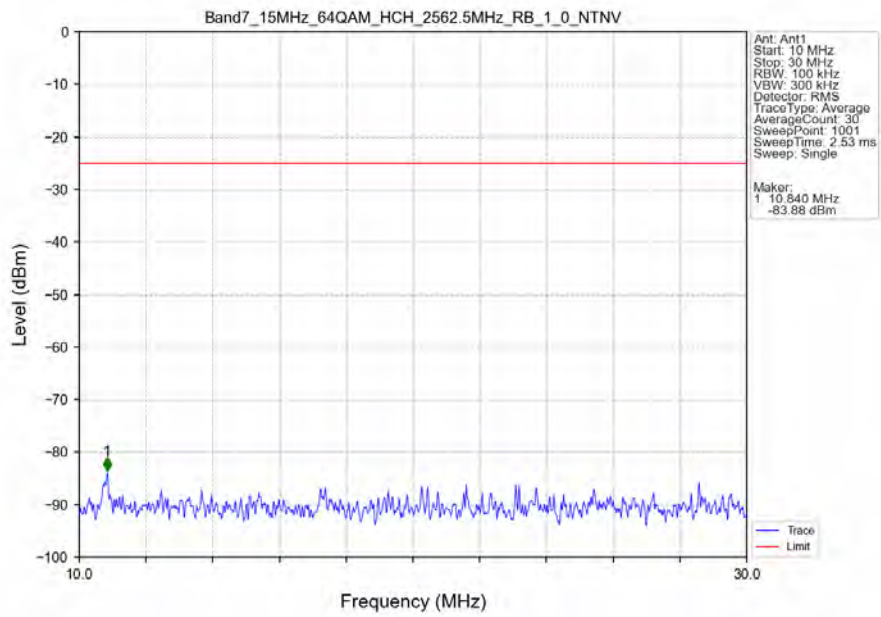
Band7_15MHz_64QAM_HCH_2562.5MHz_RB_1_0_NTNV



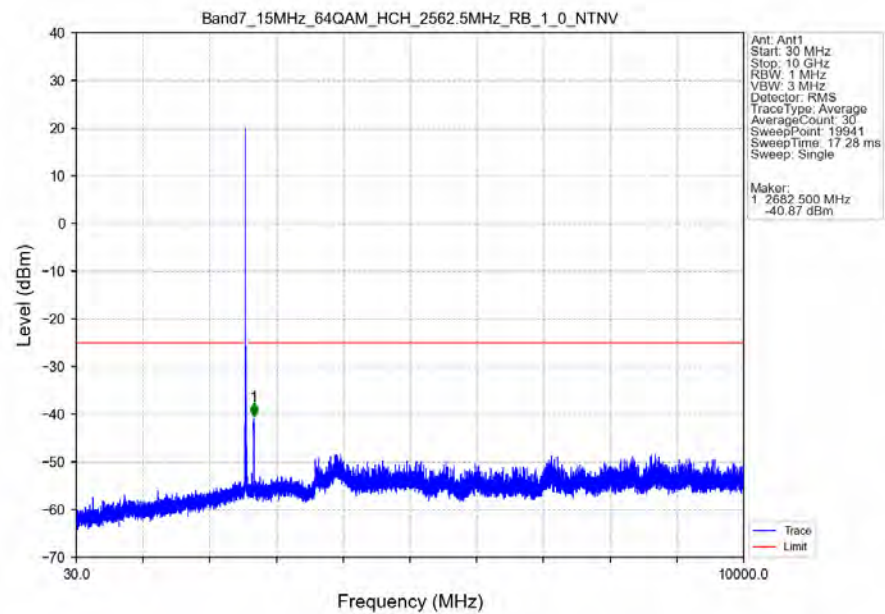
Band7_15MHz_64QAM_HCH_2562.5MHz_RB_1_0_NTNV



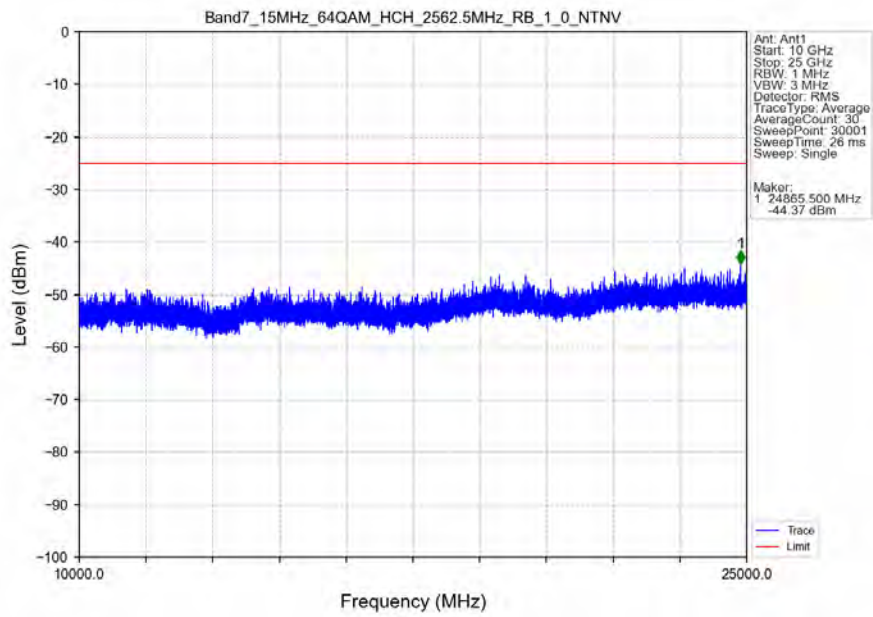
Band7_15MHz_64QAM_HCH_2562.5MHz_RB_1_0_NTNV



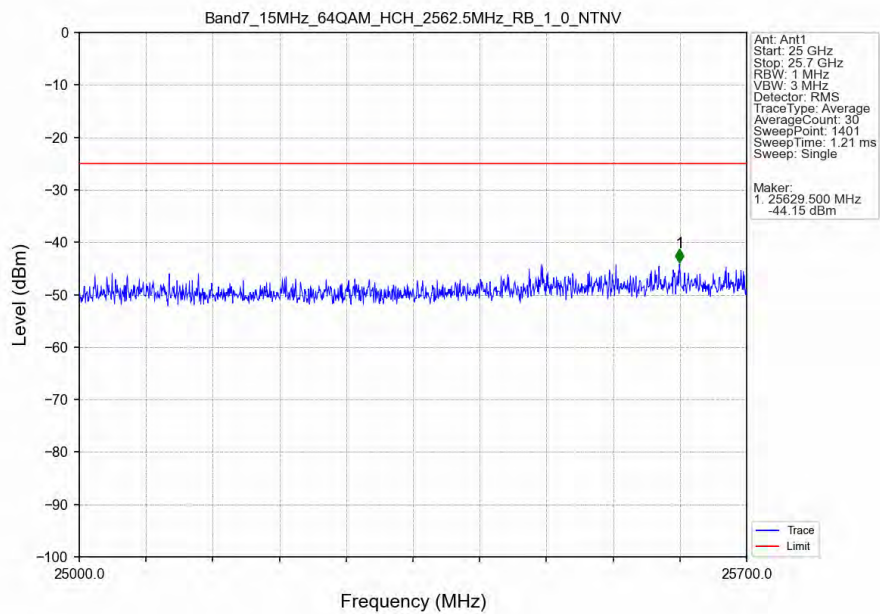
Band7_15MHz_64QAM_HCH_2562.5MHz_RB_1_0_NTNV



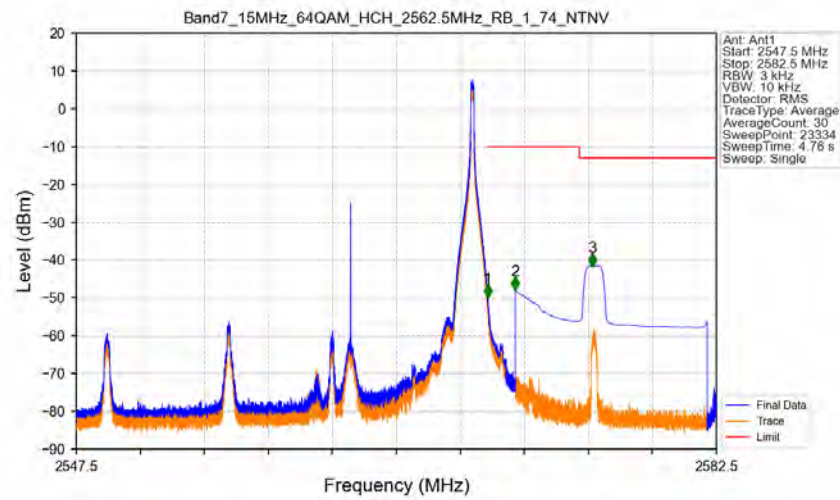
Band7_15MHz_64QAM_HCH_2562.5MHz_RB_1_0_NTNV



Band7_15MHz_64QAM_HCH_2562.5MHz_RB_1_0_NTNV

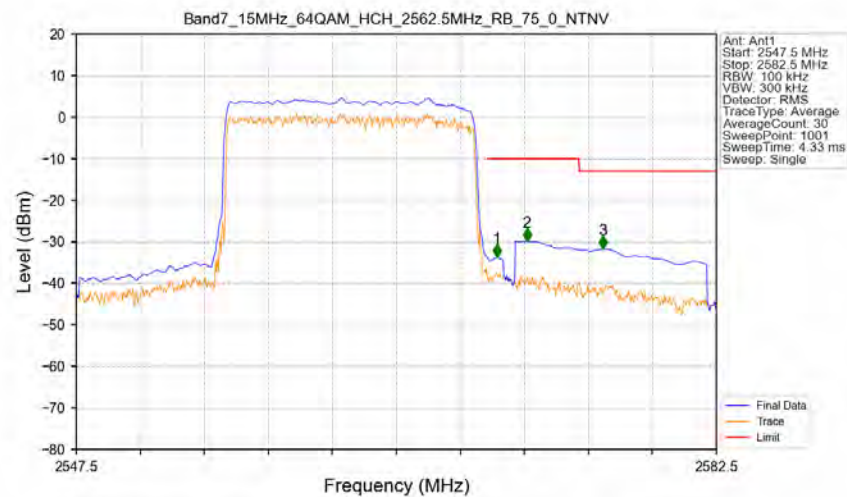


Band7_15MHz_64QAM_HCH_2562.5MHz_RB_1_74_NTNV



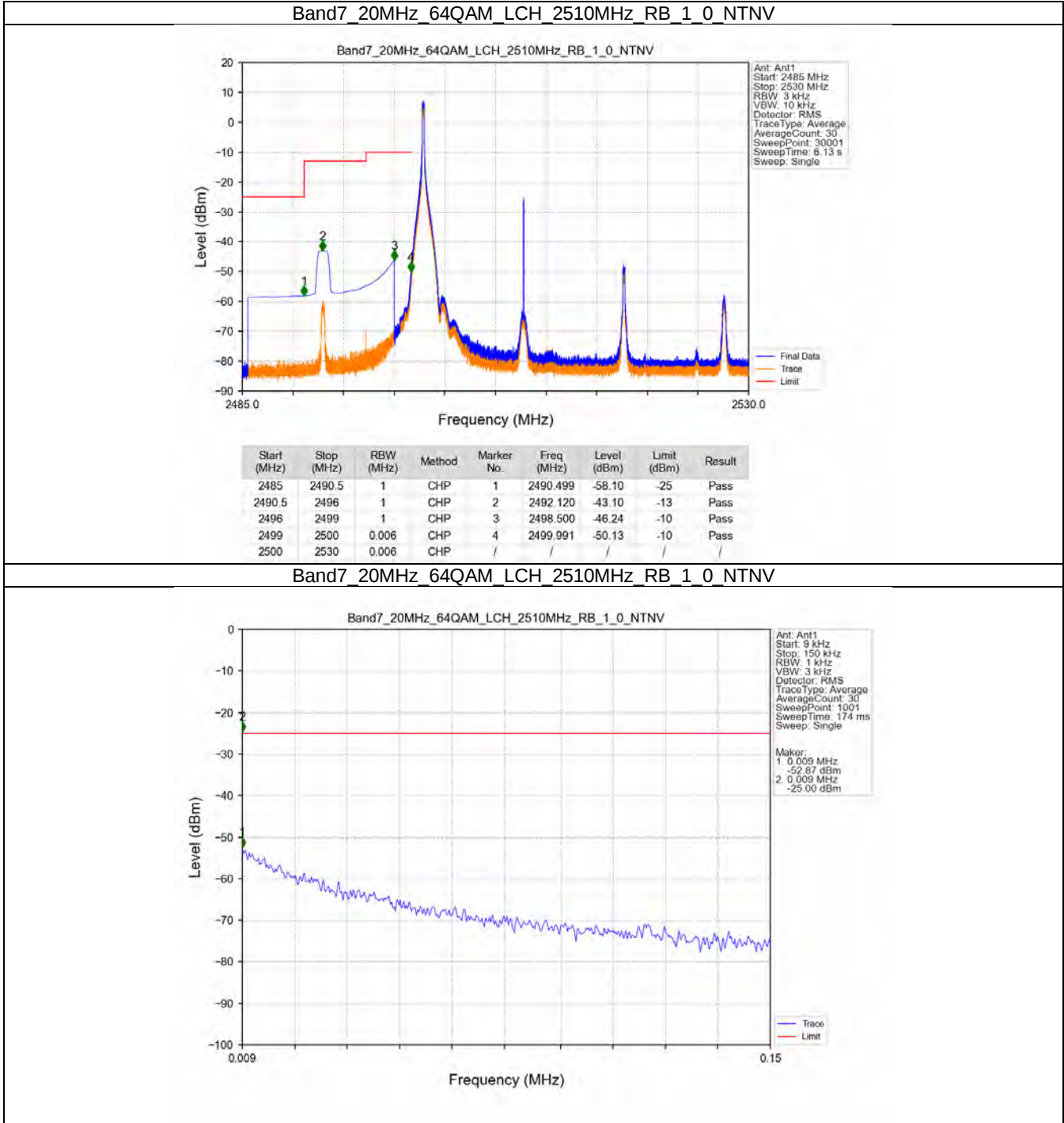
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2547.5	2570	0.006	CHP	/	/	/	/	/
2570	2571	0.006	CHP	1	2570.002	-49.83	-10	Pass
2571	2575	1	CHP	2	2571.500	-47.78	-10	Pass
2575	2582.5	1	CHP	3	2575.703	-41.60	-13	Pass

Band7_15MHz_64QAM_HCH_2562.5MHz_RB_75_0_NTNV

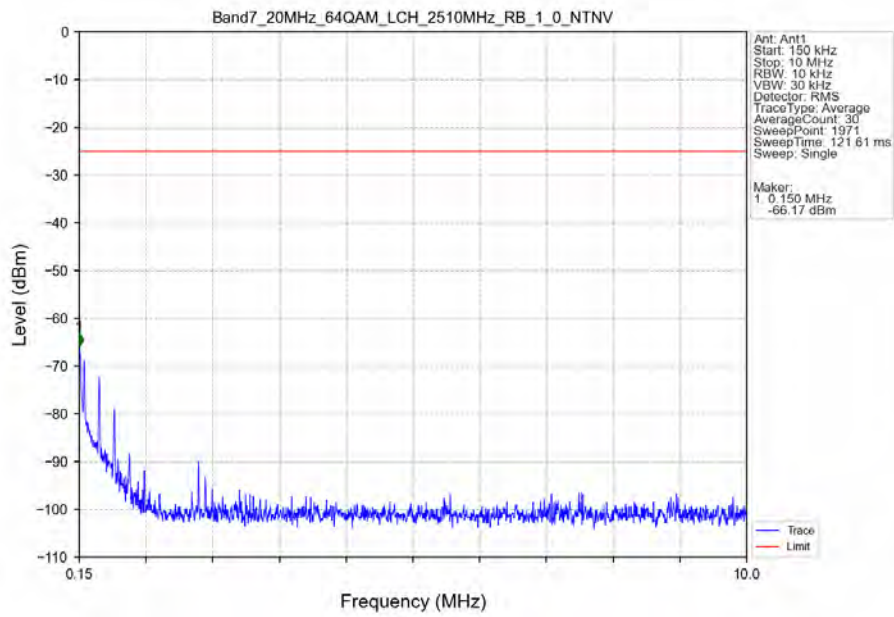


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2547.5	2570	0.299	CHP	/	/	/	/	/
2570	2571	0.299	CHP	1	2570.495	-33.75	-10	Pass
2571	2575	1	CHP	2	2572.140	-29.83	-10	Pass
2575	2582.5	1	CHP	3	2576.305	-31.73	-13	Pass

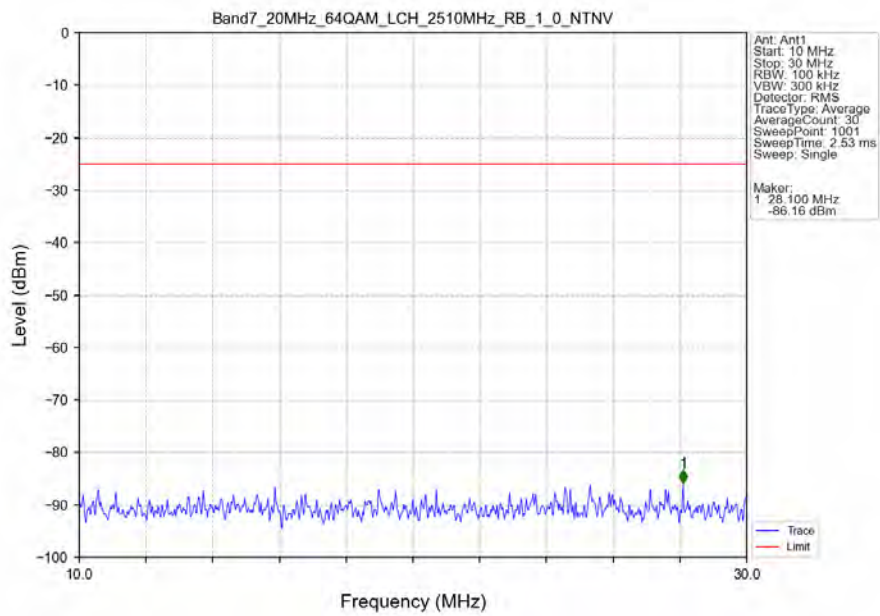
5.2.4 B7_20MHz



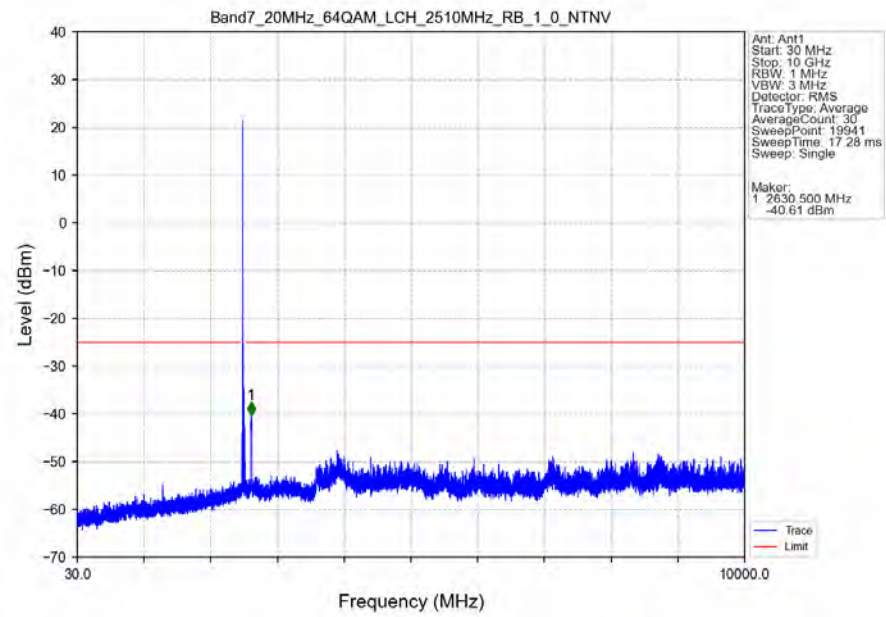
Band7_20MHz_64QAM_LCH_2510MHz_RB_1_0_NTNV



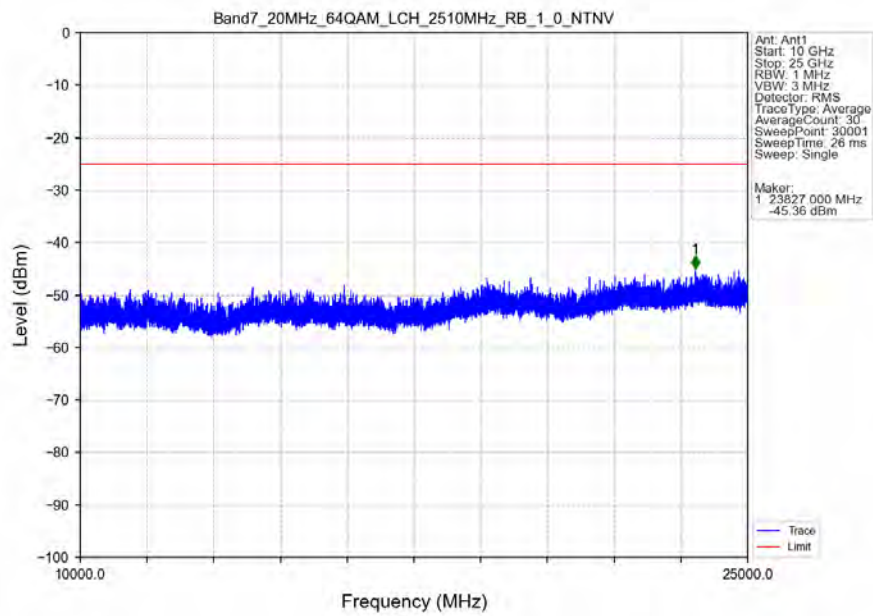
Band7_20MHz_64QAM_LCH_2510MHz_RB_1_0_NTNV



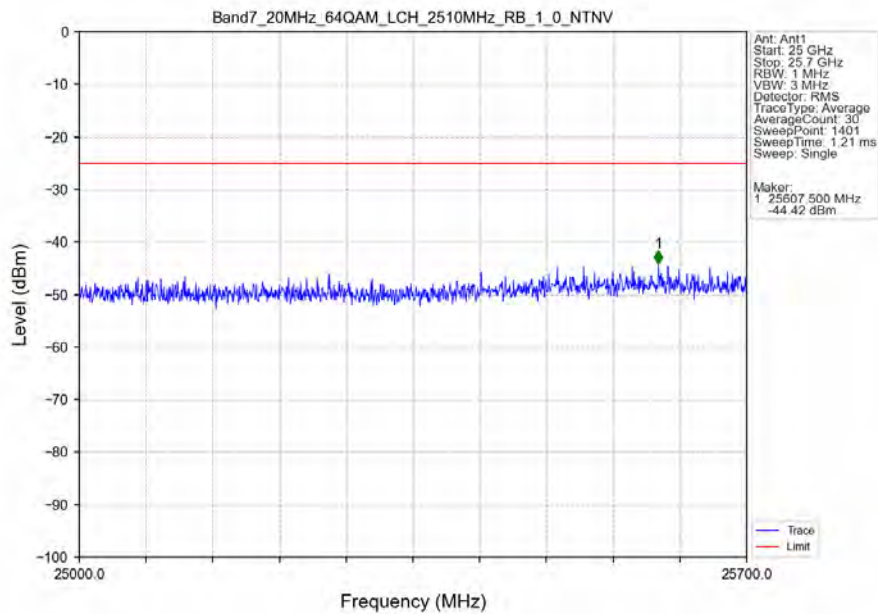
Band7_20MHz_64QAM_LCH_2510MHz_RB_1_0_NTNV



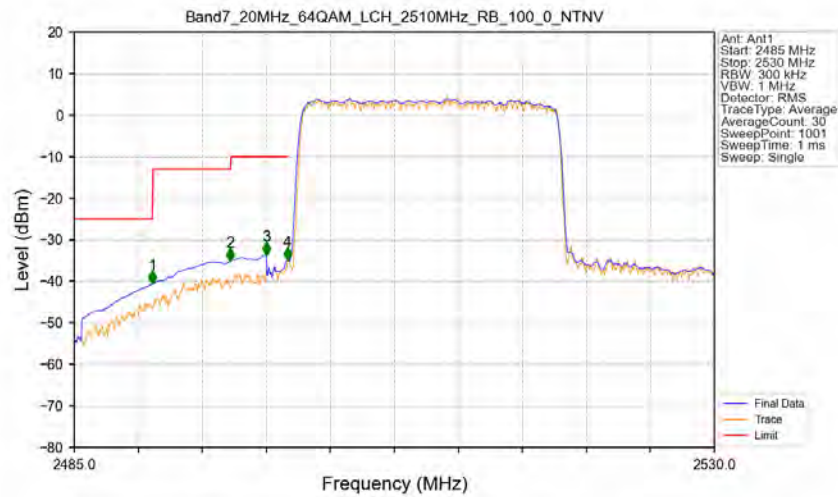
Band7_20MHz_64QAM_LCH_2510MHz_RB_1_0_NTNV



Band7_20MHz_64QAM_LCH_2510MHz_RB_1_0_NTNV

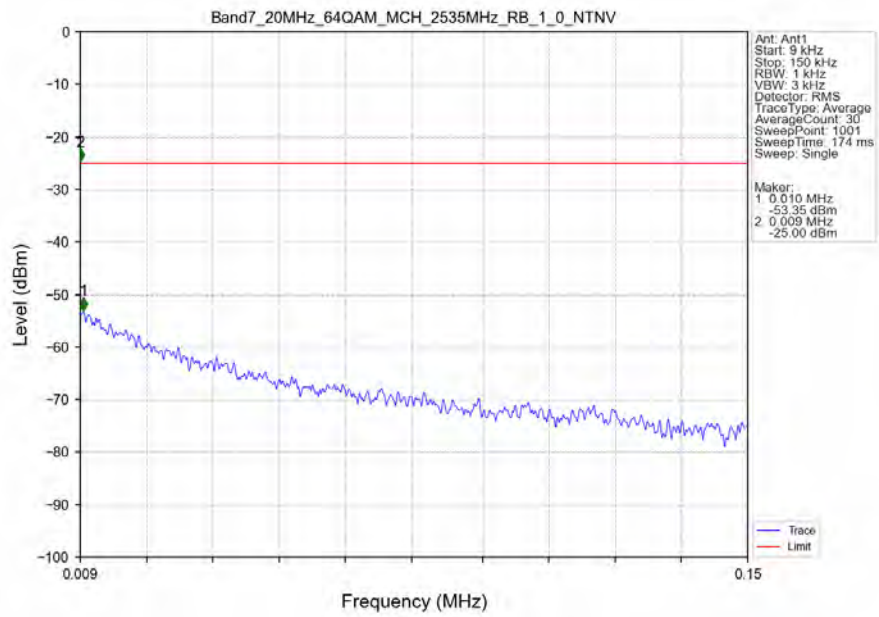


Band7_20MHz_64QAM_LCH_2510MHz_RB_100_0_NTNV

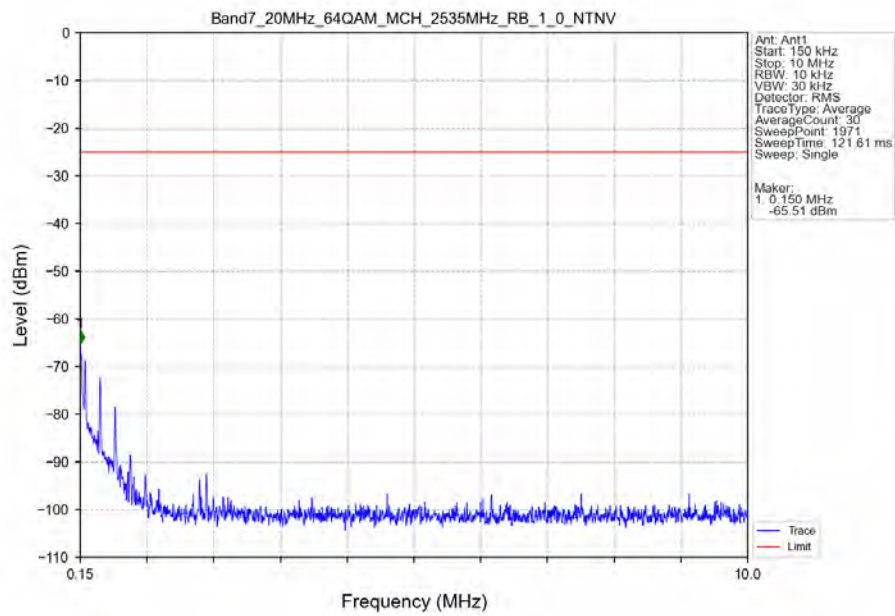


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2490.490	-40.66	-25	Pass
2490.5	2496	1	CHP	2	2495.980	-35.12	-13	Pass
2496	2499	1	CHP	3	2498.500	-33.64	-10	Pass
2499	2500	0.397	CHP	4	2499.985	-34.95	-10	Pass
2500	2530	0.397	CHP	/	/	/	/	/

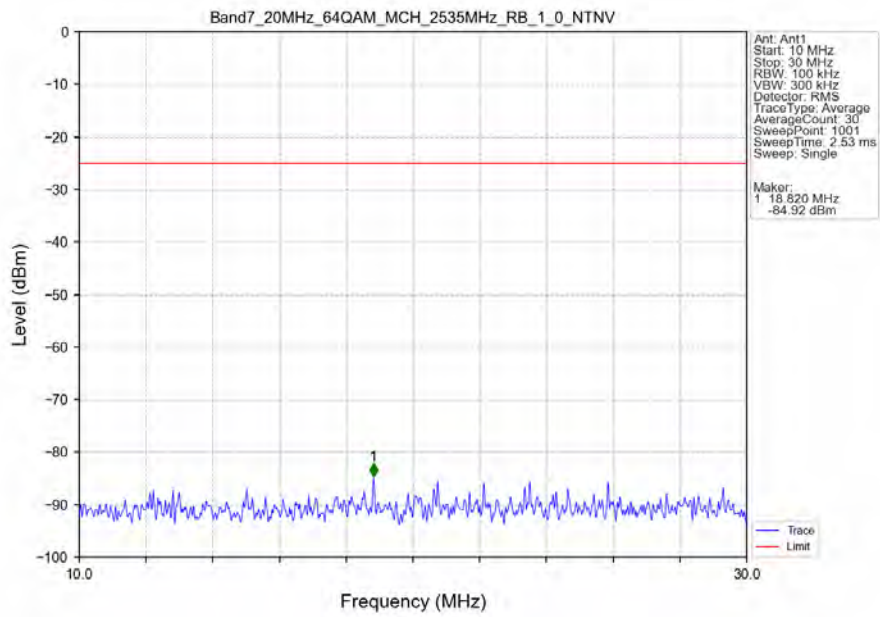
Band7_20MHz_64QAM_MCH_2535MHz_RB_1_0_NTNV



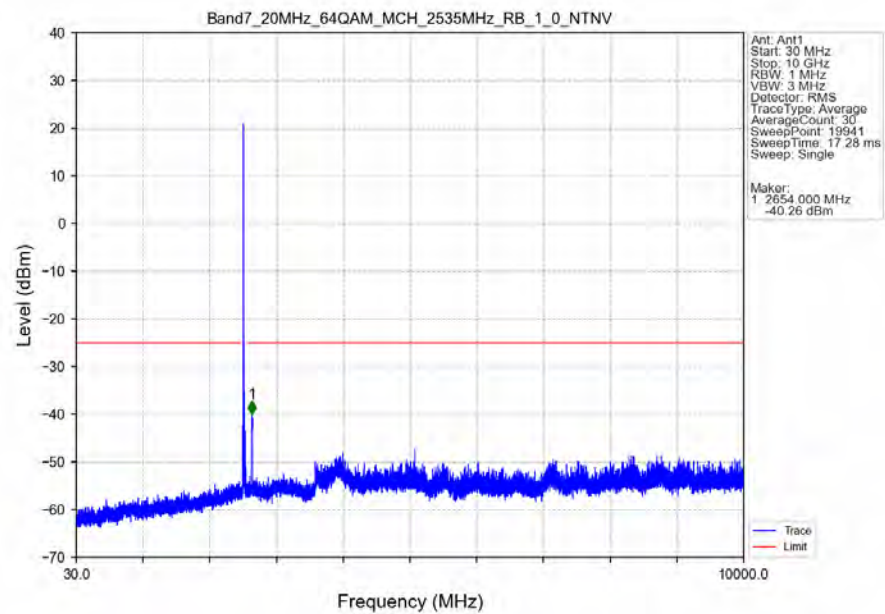
Band7_20MHz_64QAM_MCH_2535MHz_RB_1_0_NTNV



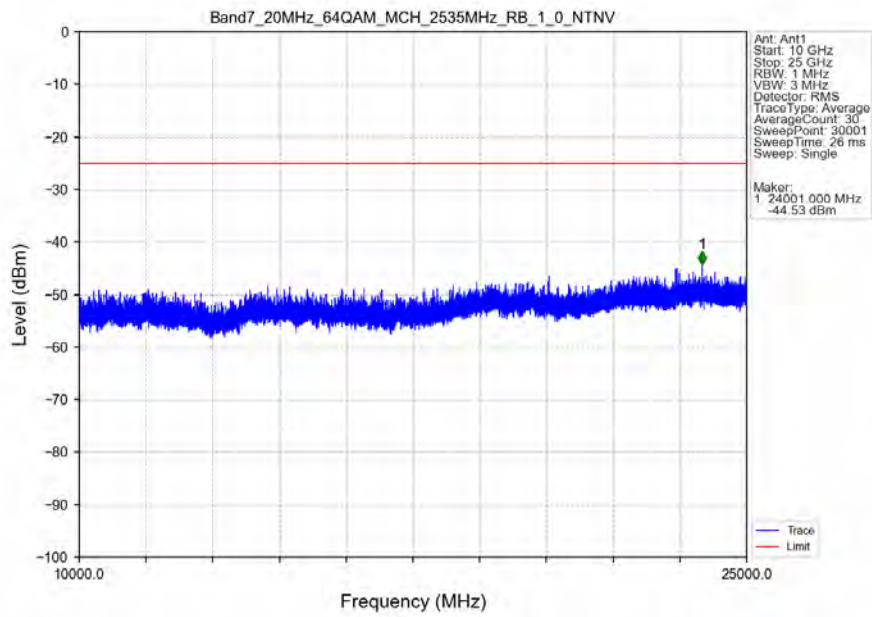
Band7_20MHz_64QAM_MCH_2535MHz_RB_1_0_NTNV



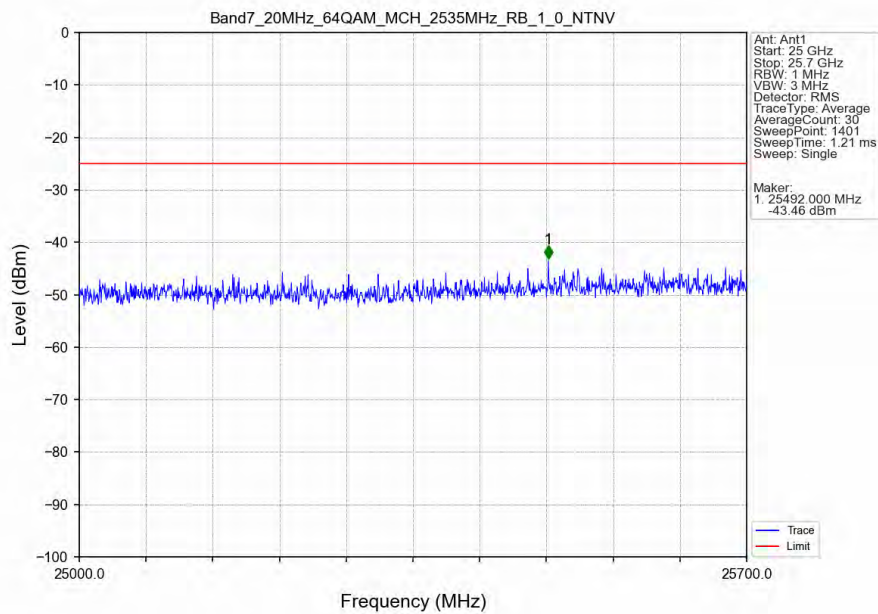
Band7_20MHz_64QAM_MCH_2535MHz_RB_1_0_NTNV



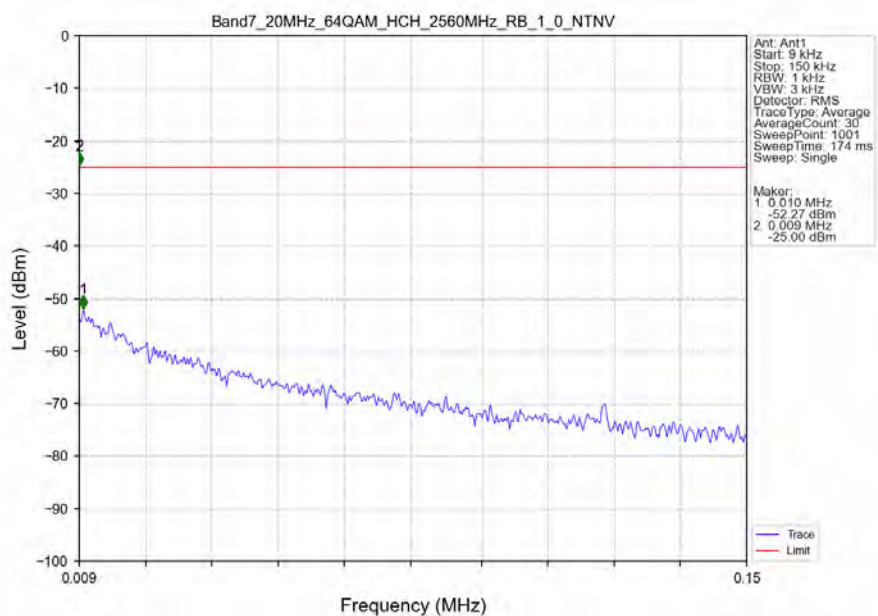
Band7_20MHz_64QAM_MCH_2535MHz_RB_1_0_NTNV



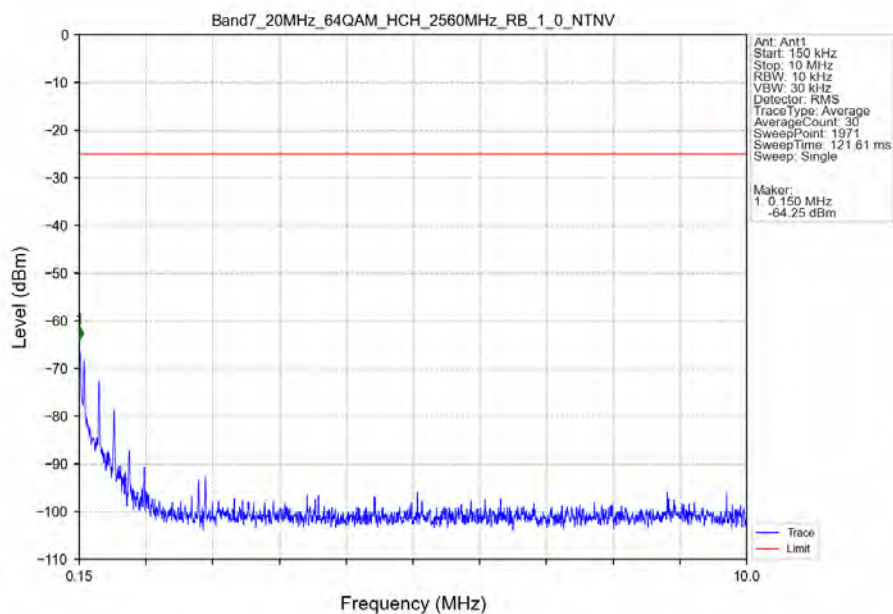
Band7_20MHz_64QAM_MCH_2535MHz_RB_1_0_NTNV



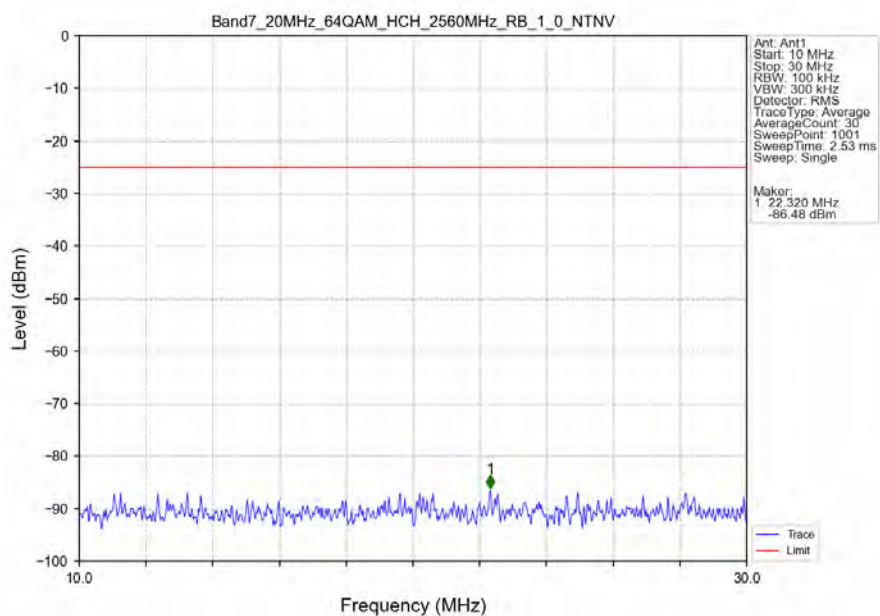
Band7_20MHz_64QAM_HCH_2560MHz_RB_1_0_NTNV



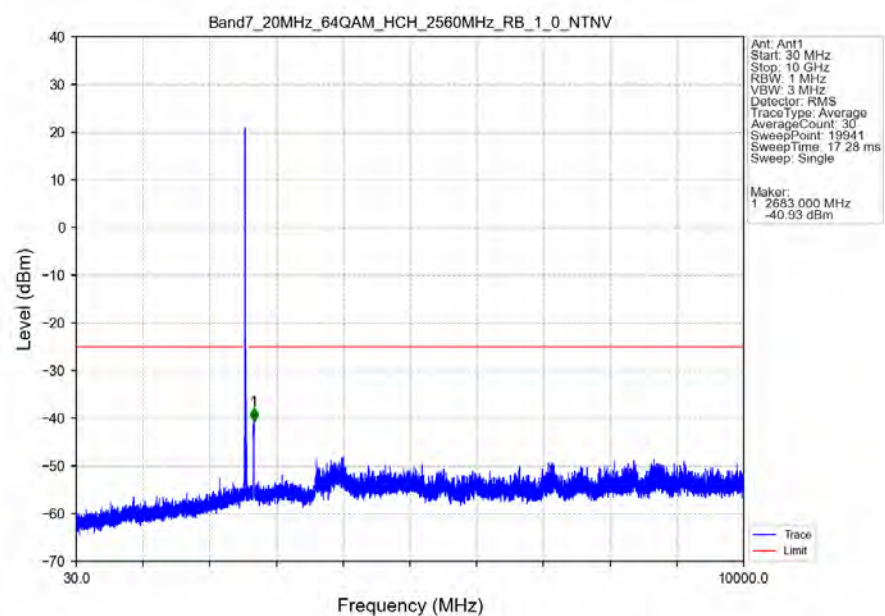
Band7_20MHz_64QAM_HCH_2560MHz_RB_1_0_NTNV



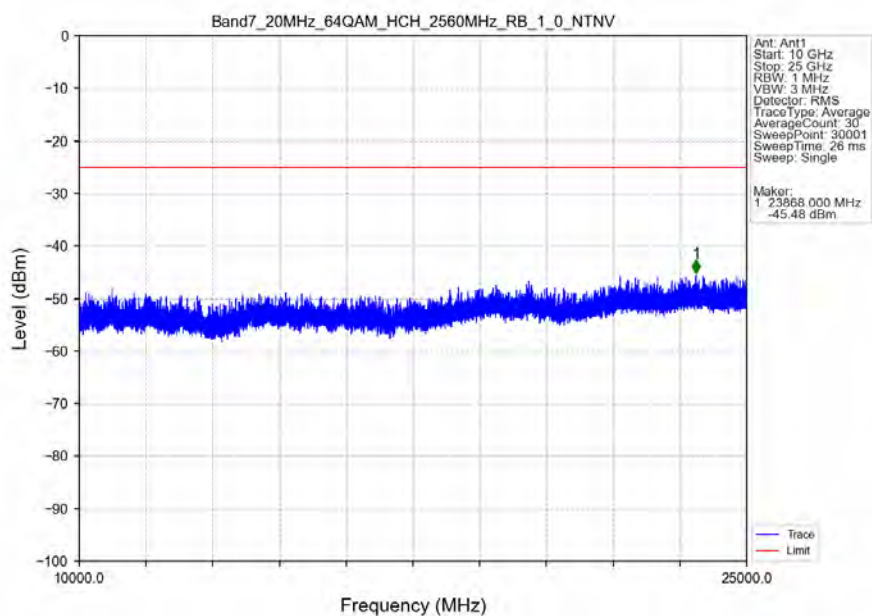
Band7_20MHz_64QAM_HCH_2560MHz_RB_1_0_NTNV



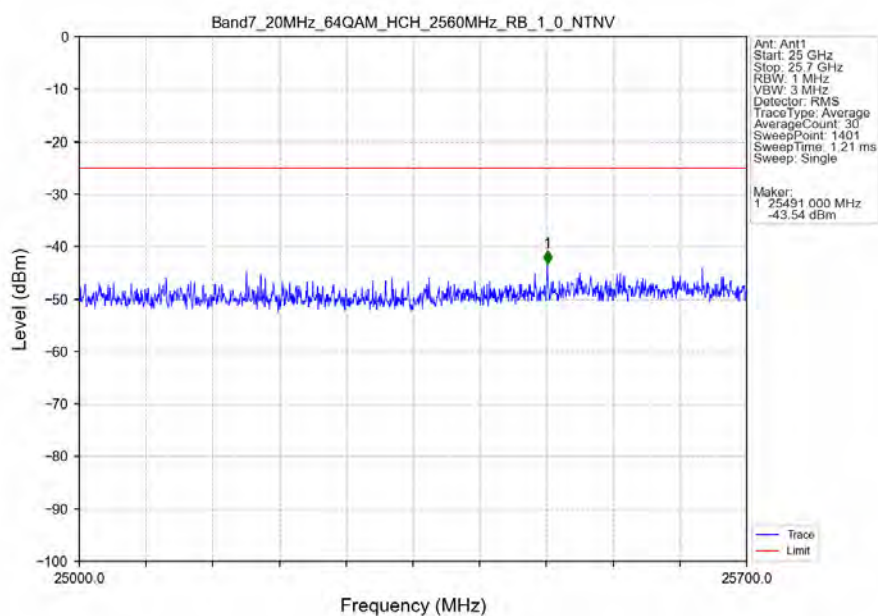
Band7_20MHz_64QAM_HCH_2560MHz_RB_1_0_NTNV



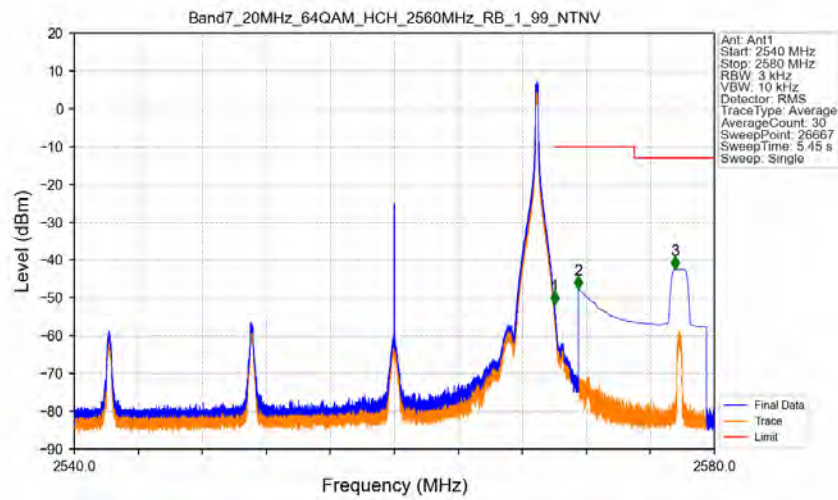
Band7_20MHz_64QAM_HCH_2560MHz_RB_1_0_NTNV



Band7_20MHz_64QAM_HCH_2560MHz_RB_1_0_NTNV

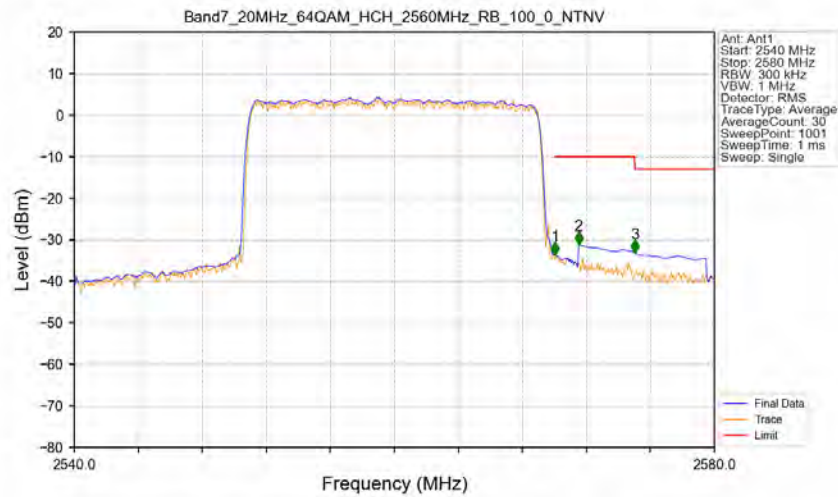


Band7_20MHz_64QAM_HCH_2560MHz_RB_1_99_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2540	2570	0.006	CHP	/	/	/	/	/
2570	2571	0.006	CHP	1	2570.007	-51.74	-10	Pass
2571	2575	1	CHP	2	2571.501	-47.63	-10	Pass
2575	2580	1	CHP	3	2577.544	-42.45	-13	Pass

Band7_20MHz_64QAM_HCH_2560MHz_RB_100_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2540	2570	0.397	CHP	/	/	/	/	/
2570	2571	0.397	CHP	1	2570.040	-33.68	-10	Pass
2571	2575	1	CHP	2	2571.520	-31.18	-10	Pass
2575	2580	1	CHP	3	2575.040	-33.13	-13	Pass

6. Field Strength of Spurious Radiation

LTE Band 7-Low channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
5002.0	-56.97	-25	-31.97	-62.54	4.57	10.14	Horizontal	Pass
7503.0	-60.3	-25	-35.3	-67.1	4.94	11.74	Horizontal	Pass
10004.0	-56.43	-25	-31.43	-64.0	5.46	13.03	Horizontal	Pass
5002.0	-57.95	-13	-44.95	-63.52	4.57	10.14	Vertical	Pass
7503.0	-58.76	-13	-45.76	-65.56	4.94	11.74	Vertical	Pass
10004.0	-57.26	-13	-44.26	-64.83	5.46	13.03	Vertical	Pass

LTE Band 7-Middle channel								
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	-59.01	-25	-34.01	-64.59	4.59	10.17	Horizontal	Pass
7578.0	-60.22	-25	-35.22	-67.1	4.95	11.83	Horizontal	Pass
10104.0	-57.13	-25	-32.13	-64.7	5.48	13.05	Horizontal	Pass
5052.0	-58.65	-25	-33.65	-64.23	4.59	10.17	Vertical	Pass
7578.0	-56.36	-25	-31.36	-63.24	4.95	11.83	Vertical	Pass
10104.0	-57.21	-25	-32.21	-64.78	5.48	13.05	Vertical	Pass

LTE Band 7-High channel								
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	-56.03	-25	-31.03	-61.63	4.6	10.2	Horizontal	Pass
7653.0	-59.93	-25	-34.93	-66.9	4.95	11.92	Horizontal	Pass
10204.0	-56.98	-25	-31.98	-64.56	5.49	13.07	Horizontal	Pass
5102.0	-59.06	-25	-34.06	-64.66	4.6	10.2	Vertical	Pass
7653.0	-56.95	-25	-31.95	-63.92	4.95	11.92	Vertical	Pass
10204.0	-57.63	-25	-32.63	-65.21	5.49	13.07	Vertical	Pass