

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B38_5MHz_EIRP

Band: 38 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2572.5	1	0	24.38	1.71	26.09	<=33.01	Pass
			13	24.42	1.71	26.13	<=33.01	Pass
			24	24.32	1.71	26.03	<=33.01	Pass
		12	0	23.39	1.71	25.10	<=33.01	Pass
			6	23.41	1.71	25.12	<=33.01	Pass
			13	23.27	1.71	24.98	<=33.01	Pass
		25	0	23.28	1.71	24.99	<=33.01	Pass
	2595	1	0	24.29	1.71	26.00	<=33.01	Pass
			13	24.31	1.71	26.02	<=33.01	Pass
			24	24.23	1.71	25.94	<=33.01	Pass
		12	0	23.32	1.71	25.03	<=33.01	Pass
			6	23.35	1.71	25.06	<=33.01	Pass
			13	23.23	1.71	24.94	<=33.01	Pass
		25	0	23.23	1.71	24.94	<=33.01	Pass
	2617.5	1	0	24.03	1.71	25.74	<=33.01	Pass
			13	24.09	1.71	25.80	<=33.01	Pass
			24	23.97	1.71	25.68	<=33.01	Pass
		12	0	23.07	1.71	24.78	<=33.01	Pass
			6	23.10	1.71	24.81	<=33.01	Pass
			13	23.05	1.71	24.76	<=33.01	Pass
		25	0	23.05	1.71	24.76	<=33.01	Pass
16QAM	2572.5	1	0	23.33	1.71	25.04	<=33.01	Pass
			13	23.28	1.71	24.99	<=33.01	Pass
			24	23.33	1.71	25.04	<=33.01	Pass
		12	0	22.36	1.71	24.07	<=33.01	Pass
			6	22.39	1.71	24.10	<=33.01	Pass
			13	22.30	1.71	24.01	<=33.01	Pass
		25	0	22.28	1.71	23.99	<=33.01	Pass
	2595	1	0	23.36	1.71	25.07	<=33.01	Pass
			13	23.31	1.71	25.02	<=33.01	Pass
			24	23.21	1.71	24.92	<=33.01	Pass
		12	0	22.28	1.71	23.99	<=33.01	Pass
			6	22.39	1.71	24.10	<=33.01	Pass
			13	22.23	1.71	23.94	<=33.01	Pass
		25	0	22.25	1.71	23.96	<=33.01	Pass
	2617.5	1	0	23.08	1.71	24.79	<=33.01	Pass
			13	23.07	1.71	24.78	<=33.01	Pass
			24	22.97	1.71	24.68	<=33.01	Pass
		12	0	22.16	1.71	23.87	<=33.01	Pass
			6	22.10	1.71	23.81	<=33.01	Pass
			13	22.09	1.71	23.80	<=33.01	Pass

		12	13	22.31	1.71	24.02	<=33.01	Pass
			24	22.24	1.71	23.95	<=33.01	Pass
			0	21.31	1.71	23.02	<=33.01	Pass
			6	21.35	1.71	23.06	<=33.01	Pass
			13	21.18	1.71	22.89	<=33.01	Pass
	2617.5	25	0	21.24	1.71	22.95	<=33.01	Pass
			0	22.21	1.71	23.92	<=33.01	Pass
			13	22.10	1.71	23.81	<=33.01	Pass
		1	24	21.97	1.71	23.68	<=33.01	Pass
			0	21.10	1.71	22.81	<=33.01	Pass
			6	21.12	1.71	22.83	<=33.01	Pass
		12	13	21.07	1.71	22.78	<=33.01	Pass
			0	21.06	1.71	22.77	<=33.01	Pass
Note1: EIRP=Conducted Power+Antenna Gain								

1.1.2 B38_10MHz_EIRP

Band: 38 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2575	1	0	24.28	1.71	25.99	<=33.01	Pass
			25	24.26	1.71	25.97	<=33.01	Pass
			49	24.24	1.71	25.95	<=33.01	Pass
		25	0	23.33	1.71	25.04	<=33.01	Pass
			13	23.35	1.71	25.06	<=33.01	Pass
			25	23.30	1.71	25.01	<=33.01	Pass
		50	0	23.28	1.71	24.99	<=33.01	Pass
	2595	1	0	24.22	1.71	25.93	<=33.01	Pass
			25	24.22	1.71	25.93	<=33.01	Pass
			49	24.11	1.71	25.82	<=33.01	Pass
		25	0	23.25	1.71	24.96	<=33.01	Pass
			13	23.19	1.71	24.90	<=33.01	Pass
			25	23.13	1.71	24.84	<=33.01	Pass
		50	0	23.17	1.71	24.88	<=33.01	Pass
	2615	1	0	24.02	1.71	25.73	<=33.01	Pass
			25	24.02	1.71	25.73	<=33.01	Pass
			49	23.92	1.71	25.63	<=33.01	Pass
		25	0	23.07	1.71	24.78	<=33.01	Pass
			13	23.08	1.71	24.79	<=33.01	Pass
			25	23.03	1.71	24.74	<=33.01	Pass
		50	0	23.05	1.71	24.76	<=33.01	Pass
16QAM	2575	1	0	23.37	1.71	25.08	<=33.01	Pass
			25	23.37	1.71	25.08		

64QAM		50	13	22.12	1.71	23.83	<=33.01	Pass
			25	22.03	1.71	23.74	<=33.01	Pass
			0	22.05	1.71	23.76	<=33.01	Pass
	2575	1	0	22.28	1.71	23.99	<=33.01	Pass
			25	22.34	1.71	24.05	<=33.01	Pass
			49	22.32	1.71	24.03	<=33.01	Pass
		25	0	21.30	1.71	23.01	<=33.01	Pass
			13	21.31	1.71	23.02	<=33.01	Pass
			25	21.34	1.71	23.05	<=33.01	Pass
		50	0	21.27	1.71	22.98	<=33.01	Pass
	2595	1	0	22.41	1.71	24.12	<=33.01	Pass
			25	22.26	1.71	23.97	<=33.01	Pass
			49	22.13	1.71	23.84	<=33.01	Pass
		25	0	21.30	1.71	23.01	<=33.01	Pass
			13	21.25	1.71	22.96	<=33.01	Pass
			25	21.17	1.71	22.88	<=33.01	Pass
		50	0	21.18	1.71	22.89	<=33.01	Pass
	2615	1	0	22.09	1.71	23.80	<=33.01	Pass
			25	21.98	1.71	23.69	<=33.01	Pass
			49	21.91	1.71	23.62	<=33.01	Pass
		25	0	21.04	1.71	22.75	<=33.01	Pass
			13	21.09	1.71	22.80	<=33.01	Pass
			25	21.02	1.71	22.73	<=33.01	Pass
		50	0	21.02	1.71	22.73	<=33.01	Pass
Note1: EIRP=Conducted Power+Antenna Gain								

1.1.3 B38_15MHz_EIRP

Band: 38 / Bandwidth: 15MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2577.5	1	0	24.35	1.71	26.06	<=33.01	Pass
			38	24.32	1.71	26.03	<=33.01	Pass
			74	24.28	1.71	25.99	<=33.01	Pass
		36	0	23.36	1.71	25.07	<=33.01	Pass
			18	23.30	1.71	25.01	<=33.01	Pass
			39	23.26	1.71	24.97	<=33.01	Pass
		75	0	23.23	1.71	24.94	<=33.01	Pass
		1	0	24.33	1.71	26.04	<=33.01	Pass
			38	24.30	1.71	26.01	<=33.01	Pass
			74	24.15	1.71	25.86	<=33.01	Pass
	2595	36	0	23.35	1.71	25.06	<=33.01	Pass
			18	23.21	1.71	24.92	<=33.01	Pass
			39	23.22	1.71	24.93	<=33.01	Pass
		75	0	23.16	1.71	24.87	<=33.01	Pass
	2612.5	1	0	24.11	1.71	25.82	<=33.01	Pass
			38	24.14	1.71	25.85	<=33.01	Pass

	2595	1	0	23.35	1.71	25.06	<=33.01	Pass
			38	23.23	1.71	24.94	<=33.01	Pass
			74	23.07	1.71	24.78	<=33.01	Pass
		36	0	22.35	1.71	24.06	<=33.01	Pass
			18	22.24	1.71	23.95	<=33.01	Pass
			39	22.19	1.71	23.90	<=33.01	Pass
		75	0	22.16	1.71	23.87	<=33.01	Pass
	2612.5	1	0	23.20	1.71	24.91	<=33.01	Pass
			38	23.12	1.71	24.83	<=33.01	Pass
			74	23.01	1.71	24.72	<=33.01	Pass
		36	0	22.15	1.71	23.86	<=33.01	Pass
			18	22.17	1.71	23.88	<=33.01	Pass
			39	21.98	1.71	23.69	<=33.01	Pass
		75	0	22.07	1.71	23.78	<=33.01	Pass
64QAM	2577.5	1	0	22.47	1.71	24.18	<=33.01	Pass
			38	22.50	1.71	24.21	<=33.01	Pass
			74	22.33	1.71	24.04	<=33.01	Pass
		36	0	21.36	1.71	23.07	<=33.01	Pass
			18	21.32	1.71	23.03	<=33.01	Pass
			39	21.25	1.71	22.96	<=33.01	Pass
		75	0	21.26	1.71	22.97	<=33.01	Pass
	2595	1	0	22.32	1.71	24.03	<=33.01	Pass
			38	22.21	1.71	23.92	<=33.01	Pass
			74	22.15	1.71	23.86	<=33.01	Pass
		36	0	21.34	1.71	23.05	<=33.01	Pass
			18	21.26	1.71	22.97	<=33.01	Pass
			39	21.19	1.71	22.90	<=33.01	Pass
		75	0	21.17	1.71	22.88	<=33.01	Pass
	2612.5	1	0	22.14	1.71	23.85	<=33.01	Pass
			38	22.02	1.71	23.73	<=33.01	Pass
			74	22.01	1.71	23.72	<=33.01	Pass
		36	0	21.15	1.71	22.86	<=33.01	Pass
			18	21.17	1.71	22.88	<=33.01	Pass
			39	20.98	1.71	22.69	<=33.01	Pass
		75	0	21.10	1.71	22.81	<=33.01	Pass
Note1: EIRP=Conducted Power+Antenna Gain								

1.1.4 B38_20MHz_EIRP

Band: 38 / Bandwidth: 20MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2580	1	0	24.28	1.71	25.99	<=33.01	Pass
			50	24.31	1.71	26.02	<=33.01	Pass
			99	24.22	1.71	25.93	<=33.01	Pass
		50	0	23.29	1.71	25.00	<=33.01	Pass
			25	23.24	1.71	24.95	<=33.01	Pass

		50	0	23.14	1.71	24.85	<=33.01	Pass
			25	23.15	1.71	24.86	<=33.01	Pass
			50	23.00	1.71	24.71	<=33.01	Pass
16QAM	2580	100	0	23.10	1.71	24.81	<=33.01	Pass
			0	23.25	1.71	24.96	<=33.01	Pass
			50	23.24	1.71	24.95	<=33.01	Pass
		1	99	23.11	1.71	24.82	<=33.01	Pass
			0	22.28	1.71	23.99	<=33.01	Pass
			25	22.22	1.71	23.93	<=33.01	Pass
		50	50	22.16	1.71	23.87	<=33.01	Pass
			0	22.16	1.71	23.87	<=33.01	Pass
			0	23.22	1.71	24.93	<=33.01	Pass
	2595	1	50	23.18	1.71	24.89	<=33.01	Pass
			99	22.98	1.71	24.69	<=33.01	Pass
		50	0	22.28	1.71	23.99	<=33.01	Pass
			25	22.21	1.71	23.92	<=33.01	Pass
			50	22.14	1.71	23.85	<=33.01	Pass
		100	0	22.15	1.71	23.86	<=33.01	Pass
			0	23.26	1.71	24.97	<=33.01	Pass
			50	23.29	1.71	25.00	<=33.01	Pass
		2610	99	23.09	1.71	24.80	<=33.01	Pass
			0	22.12	1.71	23.83	<=33.01	Pass
			25	22.12	1.71	23.83	<=33.01	Pass
		50	50	21.94	1.71	23.65	<=33.01	Pass
			0	22.06	1.71	23.77	<=33.01	Pass
64QAM	2580	1	0	22.26	1.71	23.97	<=33.01	Pass
			50	22.29	1.71	24.00	<=33.01	Pass
			99	22.24	1.71	23.95	<=33.01	Pass
		50	0	21.27	1.71	22.98	<=33.01	Pass
			25	21.21	1.71	22.92	<=33.01	Pass
			50	21.18	1.71	22.89	<=33.01	Pass
		100	0	21.16	1.71	22.87	<=33.01	Pass
			0	22.31	1.71	24.02	<=33.01	Pass
			50	22.40	1.71	24.11	<=33.01	Pass
	2595	1	99	22.16	1.71	23.87	<=33.01	Pass
			0	21.30	1.71	23.01	<=33.01	Pass
			25	21.18	1.71	22.89	<=33.01	Pass
		50	50	21.17	1.71	22.88	<=33.01	Pass
			0	21.12	1.71	22.83	<=33.01	Pass
		100	0	21.12	1.71	22.83	<=33.01	Pass
			0	22.28	1.71	23.99	<=33.01	Pass
			50	22.17	1.71	23.88	<=33.01	Pass
			99	21.97	1.71	23.68	<=33.01	Pass
	2610	1	0	21.14	1.71	22.85	<=33.01	Pass
			25	21.14	1.71	22.85	<=33.01	Pass
			50	20.97	1.71	22.68	<=33.01	Pass

2. Frequency Stability

2.1 Test Result

2.1.1 B38_20MHz

Band: 38 / Bandwidth: 20MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2580	100	0	20	3.3	-2.700	-0.0010	/	Pass
					3.8	-2.700	-0.0010	/	Pass
					4.4	-4.500	-0.0017	/	Pass
				-30	3.8	0.400	0.0002	/	Pass
				-20	3.8	-1.700	-0.0007	/	Pass
				-10	3.8	-1.800	-0.0007	/	Pass
				0	3.8	0.300	0.0001	/	Pass
				10	3.8	-3.400	-0.0013	/	Pass
				30	3.8	-0.800	-0.0003	/	Pass
				40	3.8	-2.000	-0.0008	/	Pass
				50	3.8	-1.800	-0.0007	/	Pass
	2595	100	0	20	3.3	-0.700	-0.0003	/	Pass
					3.8	-3.400	-0.0013	/	Pass
					4.4	-4.200	-0.0016	/	Pass
				-30	3.8	-4.900	-0.0019	/	Pass
				-20	3.8	-2.000	-0.0008	/	Pass
				-10	3.8	-3.200	-0.0012	/	Pass
				0	3.8	-3.300	-0.0013	/	Pass
				10	3.8	-3.400	-0.0013	/	Pass
				30	3.8	0.200	0.0001	/	Pass
				40	3.8	-2.800	-0.0011	/	Pass
				50	3.8	-1.000	-0.0004	/	Pass
	2610	100	0	20	3.3	-1.000	-0.0004	/	Pass
					3.8	-2.900	-0.0011	/	Pass
					4.4	-4.000	-0.0015	/	Pass
				-30	3.8	-2.300	-0.0009	/	Pass
				-20	3.8	0.500	0.0002	/	Pass
				-10	3.8	-3.000	-0.0011	/	Pass
				0	3.8	-1.900	-0.0007	/	Pass
				10	3.8	-3.500	-0.0013	/	Pass
				30	3.8	-2.200	-0.0008	/	Pass
				40	3.8	-0.900	-0.0003	/	Pass
				50	3.8	-0.900	-0.0003	/	Pass
16QAM	2580	100	0	20	3.3	-1.000	-0.0004	/	Pass
					3.8	-3.800	-0.0015	/	Pass
					4.4	-4.300	-0.0017	/	Pass
				-30	3.8	-2.000	-0.0008	/	Pass
				-20	3.8	-0.200	-0.0001	/	Pass
				-10	3.8	-3.500	-0.0014	/	Pass
				0	3.8	0.300	0.0001	/	Pass

				-20	3.8	-5.500	-0.0021	/	Pass
				-10	3.8	-2.000	-0.0008	/	Pass
				0	3.8	-3.100	-0.0012	/	Pass
				10	3.8	-4.000	-0.0015	/	Pass
				30	3.8	-3.900	-0.0015	/	Pass
				40	3.8	-4.300	-0.0017	/	Pass
				50	3.8	-2.500	-0.0010	/	Pass
	2610	100	0	20	3.3	-4.600	-0.0018	/	Pass
					3.8	-1.300	-0.0005	/	Pass
					4.4	-3.100	-0.0012	/	Pass
				-30	3.8	-1.200	-0.0005	/	Pass
				-20	3.8	-2.400	-0.0009	/	Pass
				-10	3.8	-4.000	-0.0015	/	Pass
				0	3.8	-2.200	-0.0008	/	Pass
				10	3.8	-3.500	-0.0013	/	Pass
				30	3.8	-2.700	-0.0010	/	Pass
				40	3.8	-2.300	-0.0009	/	Pass
				50	3.8	-3.700	-0.0014	/	Pass
64QAM	2580	100	0	20	3.3	-10.400	-0.0040	/	Pass
					3.8	-4.100	-0.0016	/	Pass
					4.4	-8.600	-0.0033	/	Pass
				-30	3.8	-9.700	-0.0038	/	Pass
				-20	3.8	-9.300	-0.0036	/	Pass
				-10	3.8	-8.700	-0.0034	/	Pass
				0	3.8	-16.600	-0.0064	/	Pass
				10	3.8	-16.000	-0.0062	/	Pass
				30	3.8	-12.100	-0.0047	/	Pass
				40	3.8	-5.800	-0.0022	/	Pass
				50	3.8	-18.100	-0.0070	/	Pass
	2595	100	0	20	3.3	0.900	0.0003	/	Pass
					3.8	-6.700	-0.0026	/	Pass
					4.4	-5.900	-0.0023	/	Pass
				-30	3.8	-6.300	-0.0024	/	Pass
				-20	3.8	-2.100	-0.0008	/	Pass
				-10	3.8	-2.000	-0.0008	/	Pass
				0	3.8	-1.000	-0.0004	/	Pass
				10	3.8	-6.800	-0.0026	/	Pass
				30	3.8	-0.100	0.0000	/	Pass
				40	3.8	0.000	0.0000	/	Pass
				50	3.8	-3.200	-0.0012	/	Pass
	2610	100	0	20	3.3	-12.400	-0.0048	/	Pass
					3.8	-6.100	-0.0023	/	Pass
					4.4	-8.500	-0.0033	/	Pass
				-30	3.8	-4.000	-0.0015	/	Pass
				-20	3.8	-3.600	-0.0014	/	Pass
				-10	3.8	-4.900	-0.0019	/	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band38_OBW

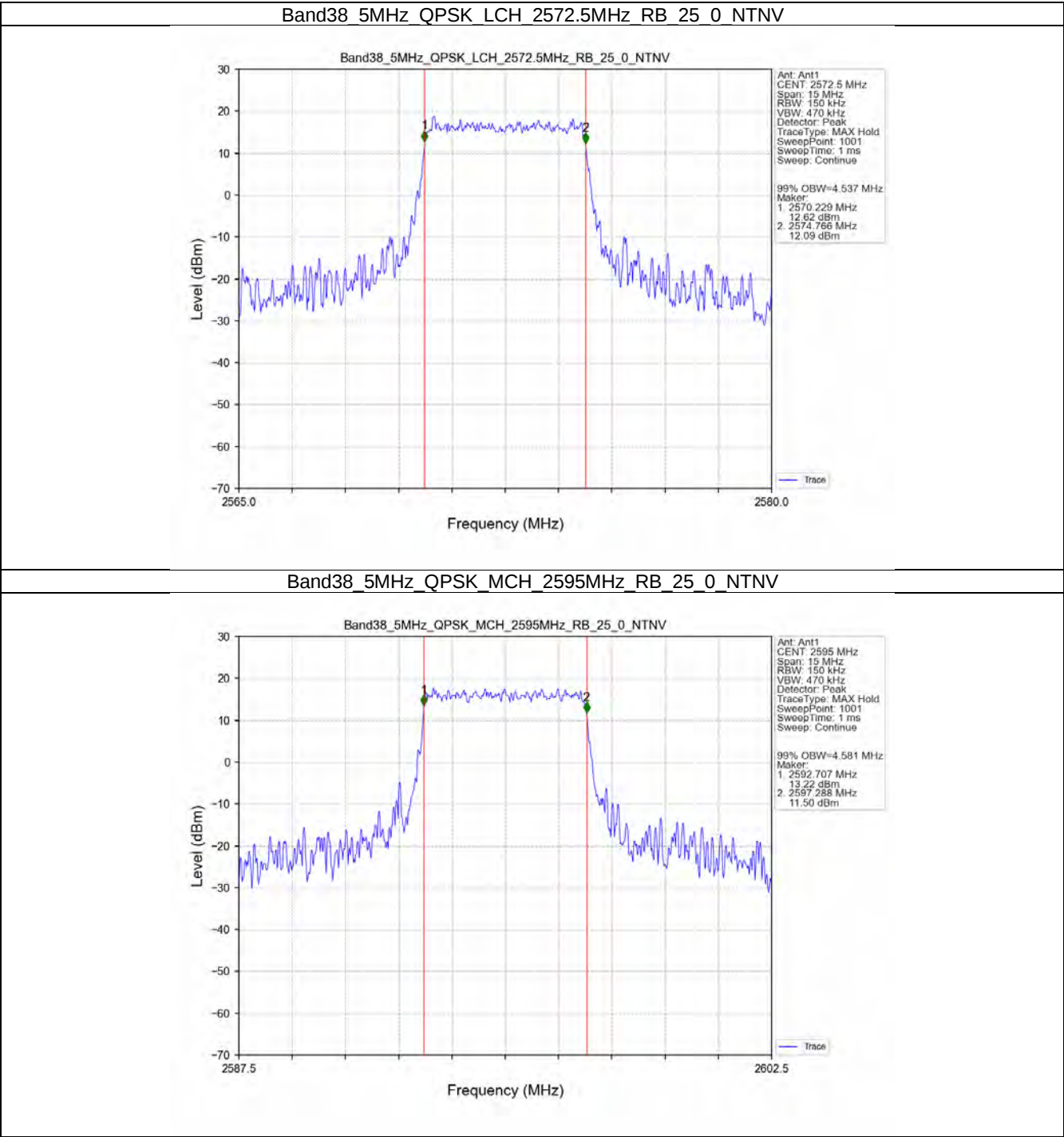
Band: 38 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2572.5	25	0	4.537	/	Pass
		2595	25	0	4.581	/	Pass
		2617.5	25	0	4.559	/	Pass
	16QAM	2572.5	25	0	4.596	/	Pass
		2595	25	0	4.541	/	Pass
		2617.5	25	0	4.552	/	Pass
	64QAM	2572.5	25	0	4.564	/	Pass
		2595	25	0	4.547	/	Pass
		2617.5	25	0	4.567	/	Pass
10	QPSK	2575	50	0	9.067	/	Pass
		2595	50	0	9.105	/	Pass
		2615	50	0	9.085	/	Pass
	16QAM	2575	50	0	9.073	/	Pass
		2595	50	0	9.105	/	Pass
		2615	50	0	9.067	/	Pass
	64QAM	2575	50	0	9.093	/	Pass
		2595	50	0	8.966	/	Pass
		2615	50	0	9.054	/	Pass
15	QPSK	2577.5	75	0	13.591	/	Pass
		2595	75	0	13.644	/	Pass
		2612.5	75	0	13.629	/	Pass
	16QAM	2577.5	75	0	13.593	/	Pass
		2595	75	0	13.593	/	Pass
		2612.5	75	0	13.620	/	Pass
	64QAM	2577.5	75	0	13.636	/	Pass
		2595	75	0	13.652	/	Pass
		2612.5	75	0	13.579	/	Pass
20	QPSK	2580	100	0	18.198	/	Pass
		2595	100	0	18.087	/	Pass
		2610	100	0	18.140	/	Pass
	16QAM	2580	100	0	18.092	/	Pass
		2595	100	0	18.223	/	Pass
		2610	100	0	18.178	/	Pass
	64QAM	2580	100	0	18.170	/	Pass
		2595	100	0	18.169	/	Pass
		2610	100	0	18.138	/	Pass

3.1.2 Band38_XDB

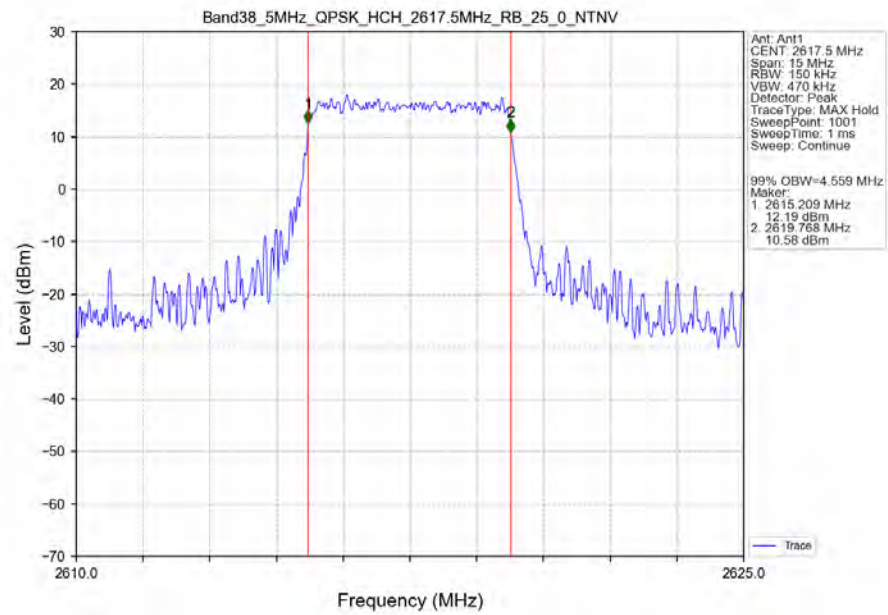
Band: 38 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2572.5	25	0	5.343	/	Pass
		2595	25	0	5.874	/	Pass
		2617.5	25	0	5.635	/	Pass
	16QAM	2572.5	25	0	5.176	/	Pass
		2595	25	0	5.229	/	Pass
		2617.5	25	0	6.095	/	Pass
	64QAM	2572.5	25	0	5.508	/	Pass
		2595	25	0	5.272	/	Pass
		2617.5	25	0	5.563	/	Pass
10	QPSK	2575	50	0	10.785	/	Pass
		2595	50	0	10.816	/	Pass
		2615	50	0	11.034	/	Pass
	16QAM	2575	50	0	11.305	/	Pass
		2595	50	0	10.227	/	Pass
		2615	50	0	10.501	/	Pass
	64QAM	2575	50	0	10.246	/	Pass
		2595	50	0	9.667	/	Pass
		2615	50	0	10.136	/	Pass
15	QPSK	2577.5	75	0	16.572	/	Pass
		2595	75	0	16.054	/	Pass
		2612.5	75	0	16.387	/	Pass
	16QAM	2577.5	75	0	16.087	/	Pass
		2595	75	0	15.196	/	Pass
		2612.5	75	0	16.822	/	Pass
	64QAM	2577.5	75	0	15.389	/	Pass
		2595	75	0	15.550	/	Pass
		2612.5	75	0	15.581	/	Pass
20	QPSK	2580	100	0	20.883	/	Pass
		2595	100	0	20.411	/	Pass
		2610	100	0	19.947	/	Pass
	16QAM	2580	100	0	20.097	/	Pass
		2595	100	0	20.545	/	Pass
		2610	100	0	20.121	/	Pass
	64QAM	2580	100	0	20.270	/	Pass
		2595	100	0	19.698	/	Pass
		2610	100	0	19.906	/	Pass

3.2 Test Graph

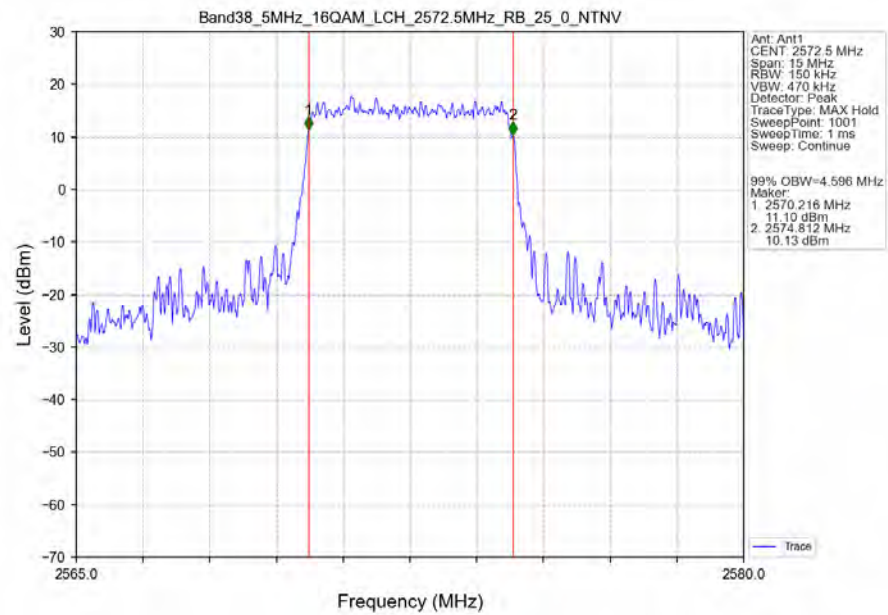
3.2.1 Band38_OBW



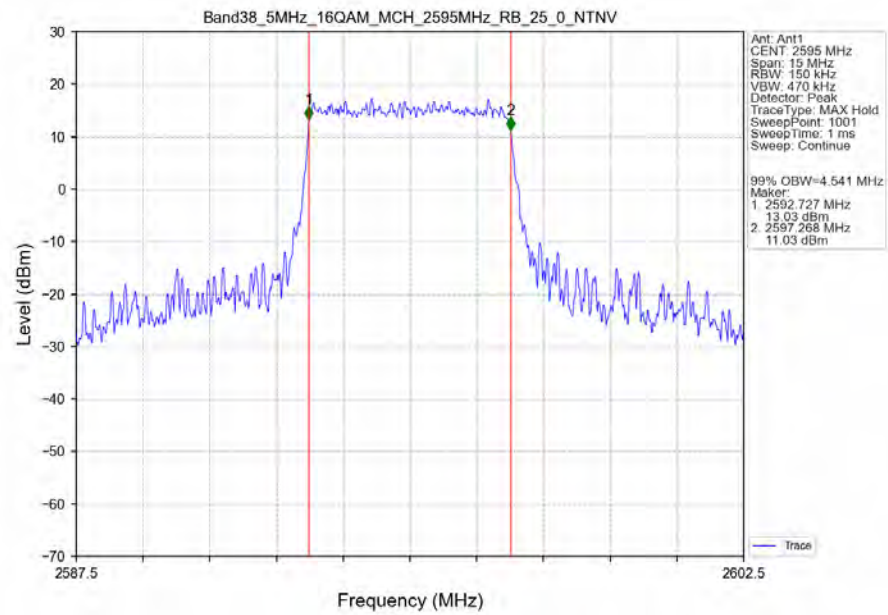
Band38_5MHz_QPSK_HCH_2617.5MHz_RB_25_0_NTNV



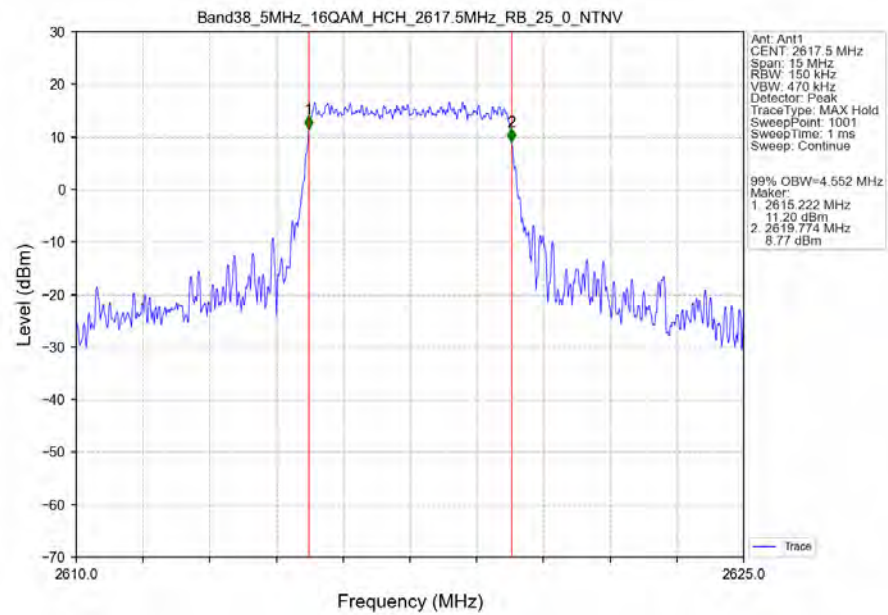
Band38_5MHz_16QAM_LCH_2572.5MHz_RB_25_0_NTNV



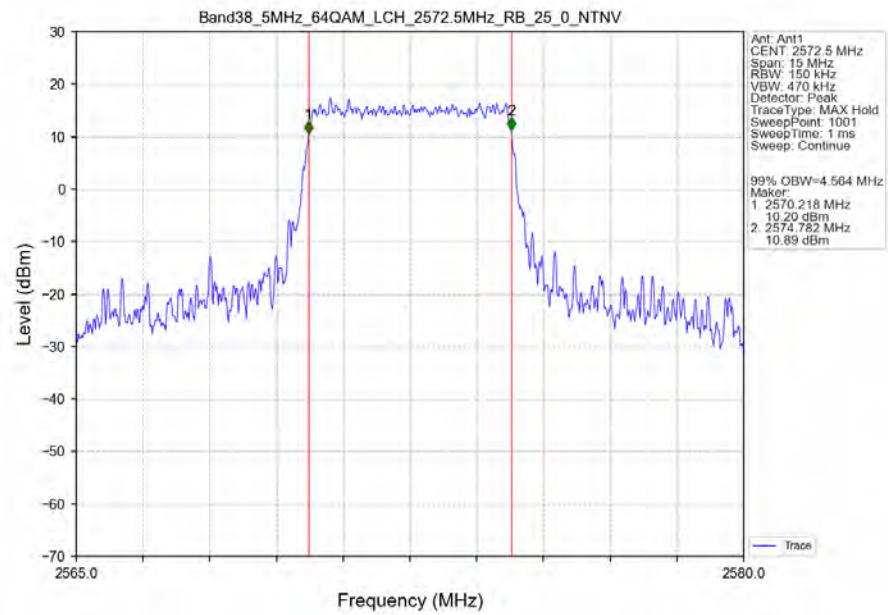
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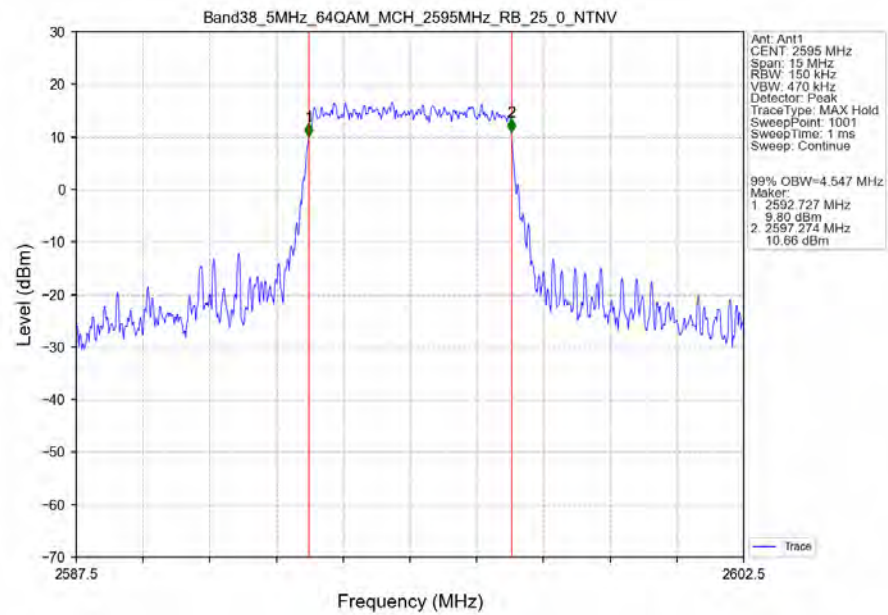
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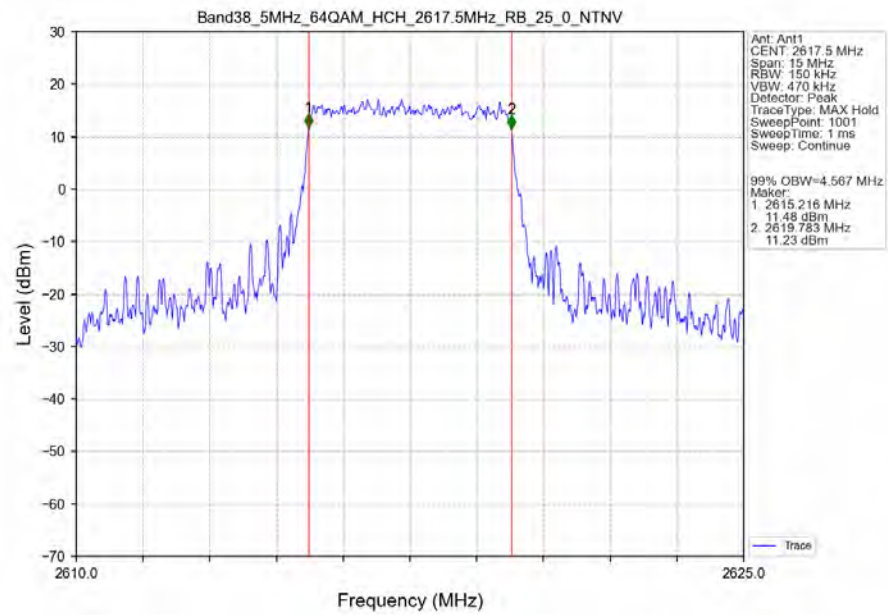
Band38 5MHz 64QAM LCH 2572.5MHz RB 25_0 NTN



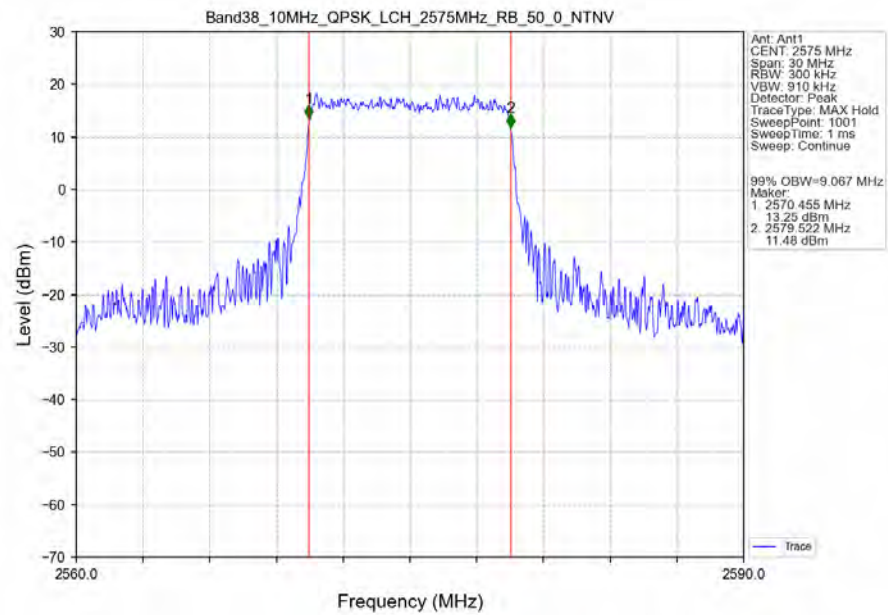
Band38_5MHz_64QAM_MCH_2595MHz_RB_25_0 NTN



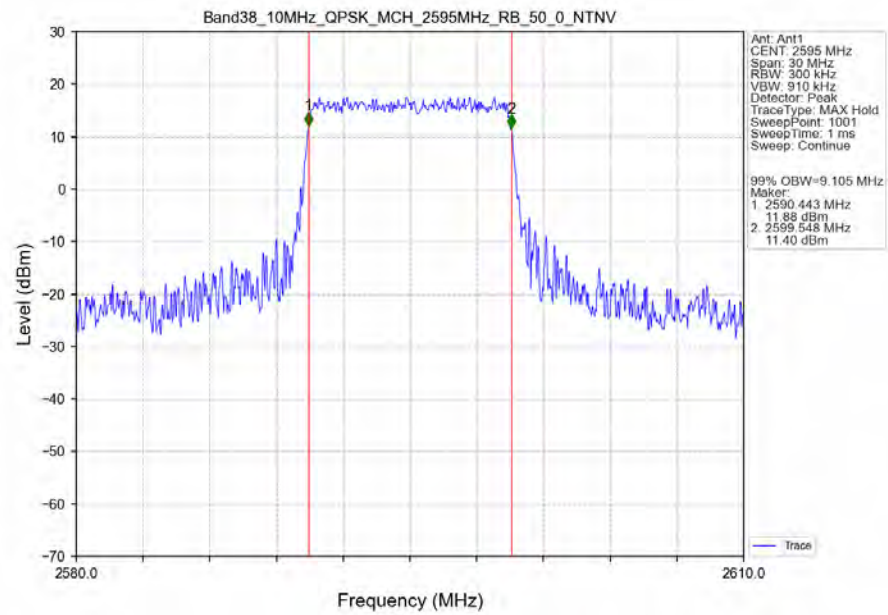
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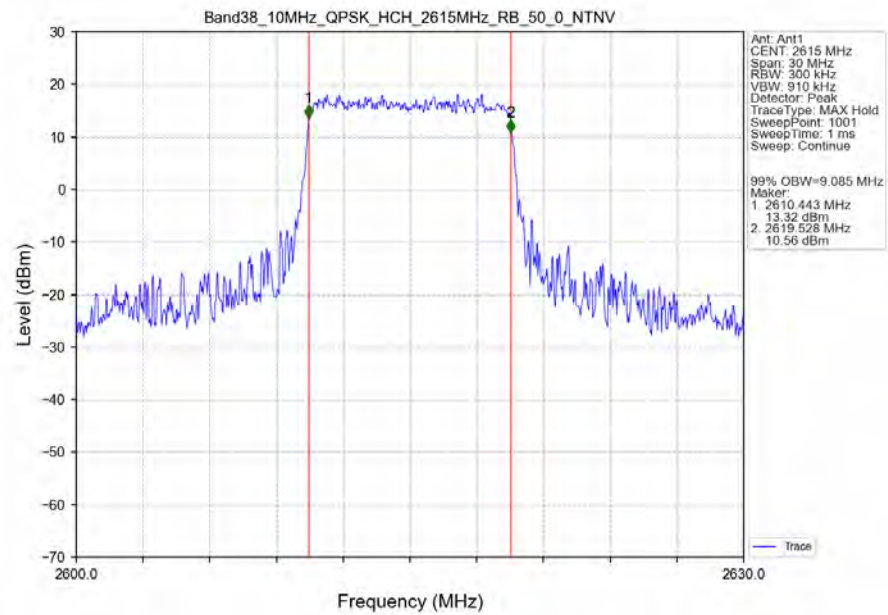
Band38_10MHz_QPSK_LCH_2575MHz_RB_50_0_NTNV



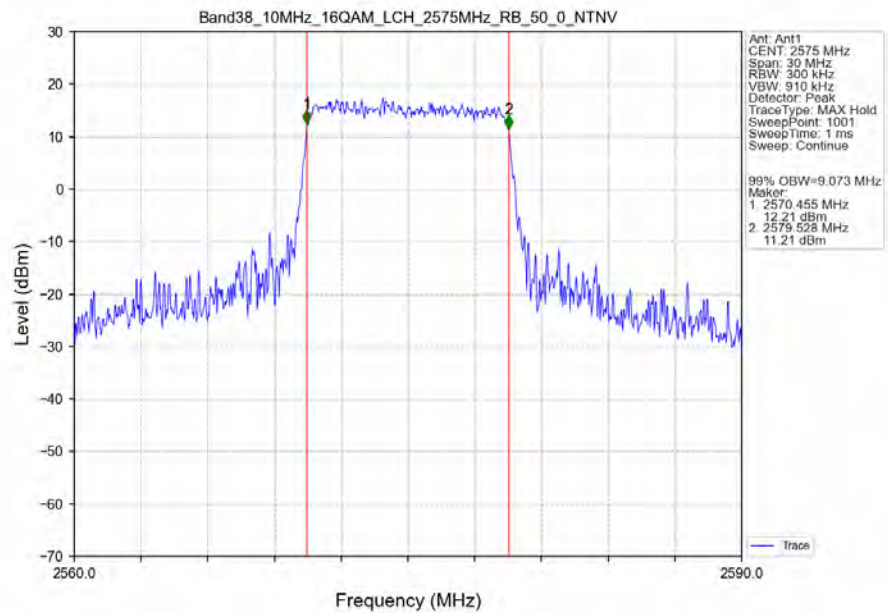
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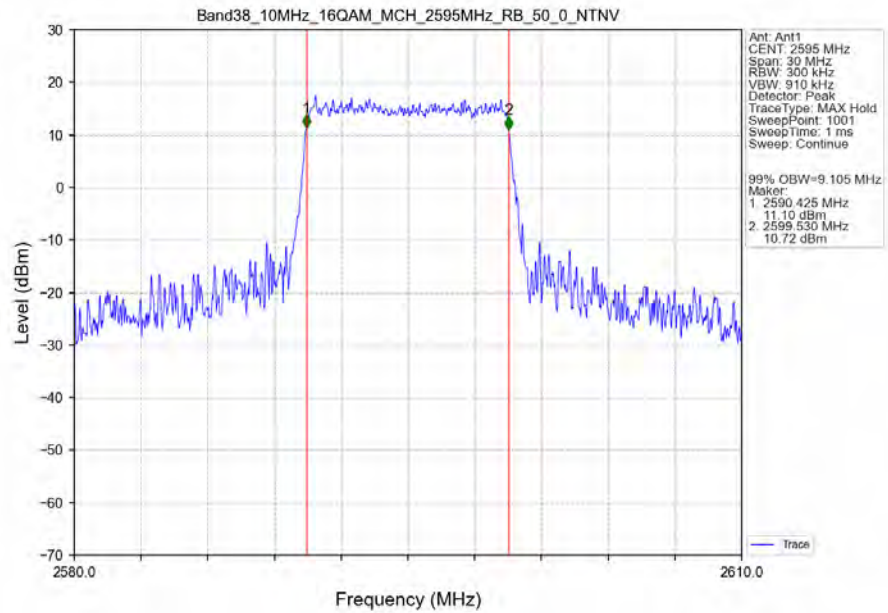
Band38_10MHz_QPSK_HCH_2615MHz_RB_50_0_NTNV



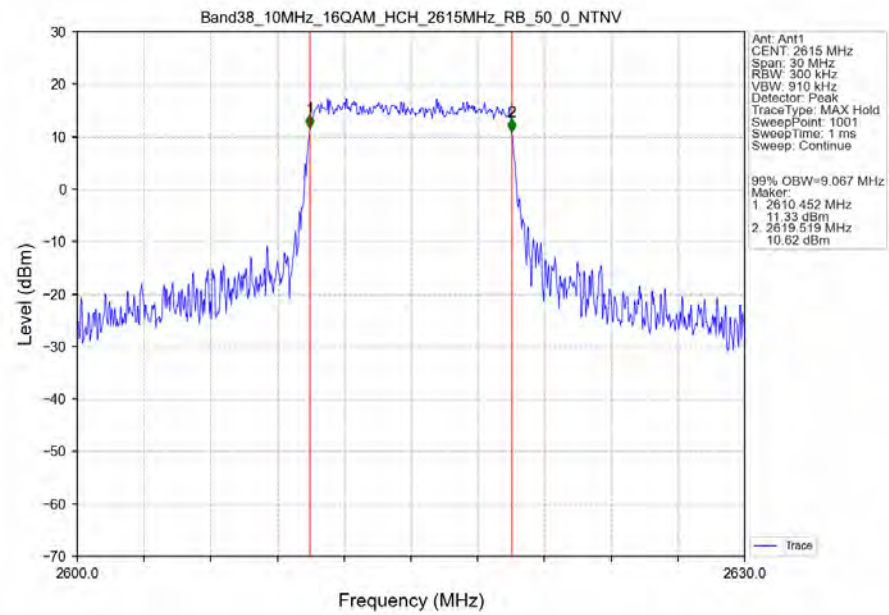
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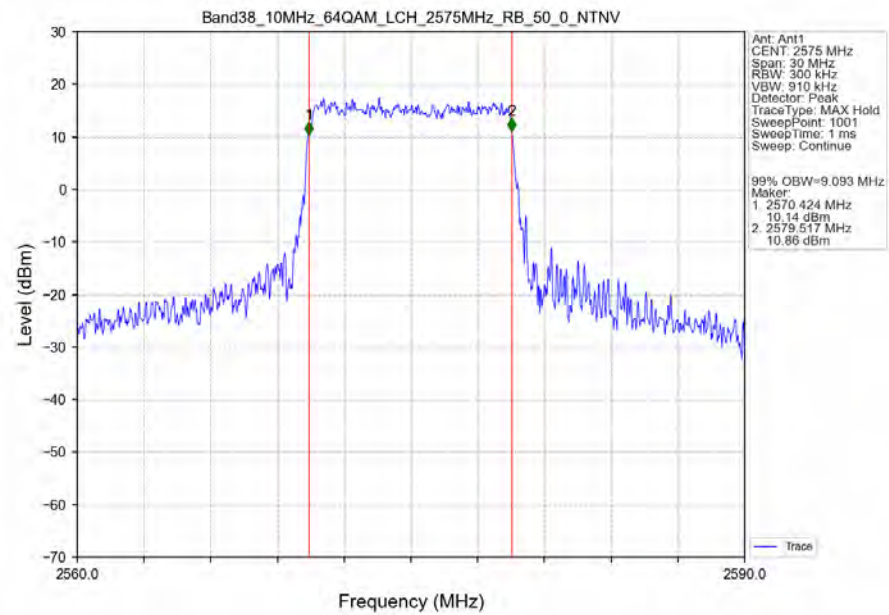
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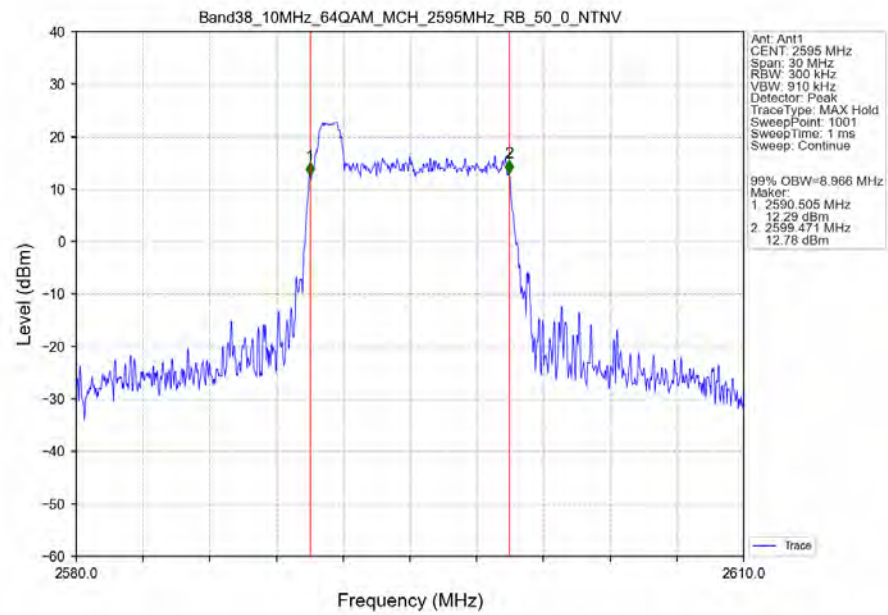
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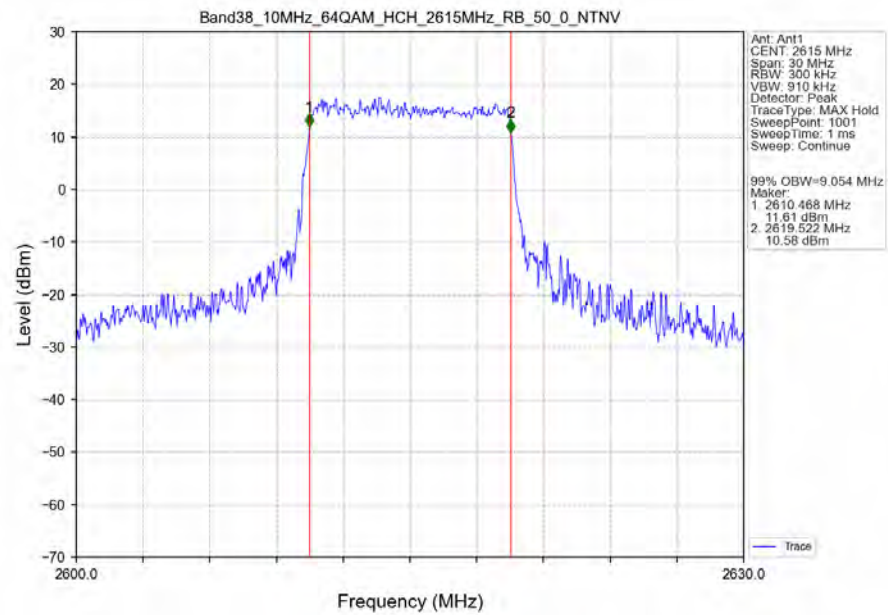
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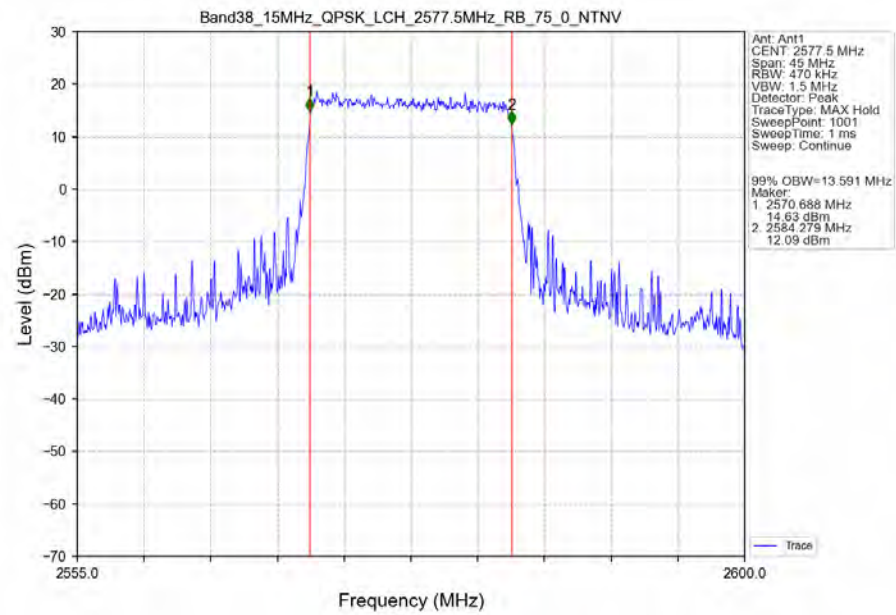
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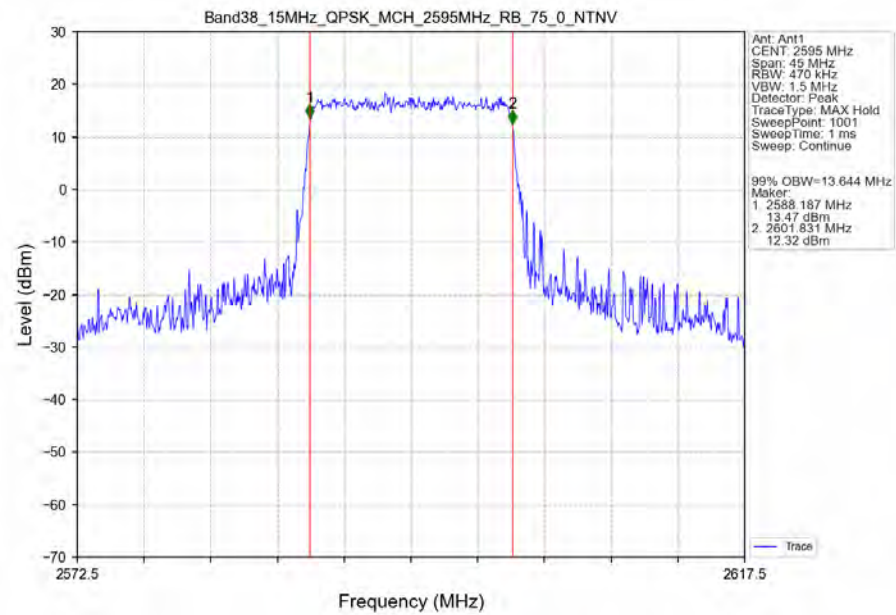
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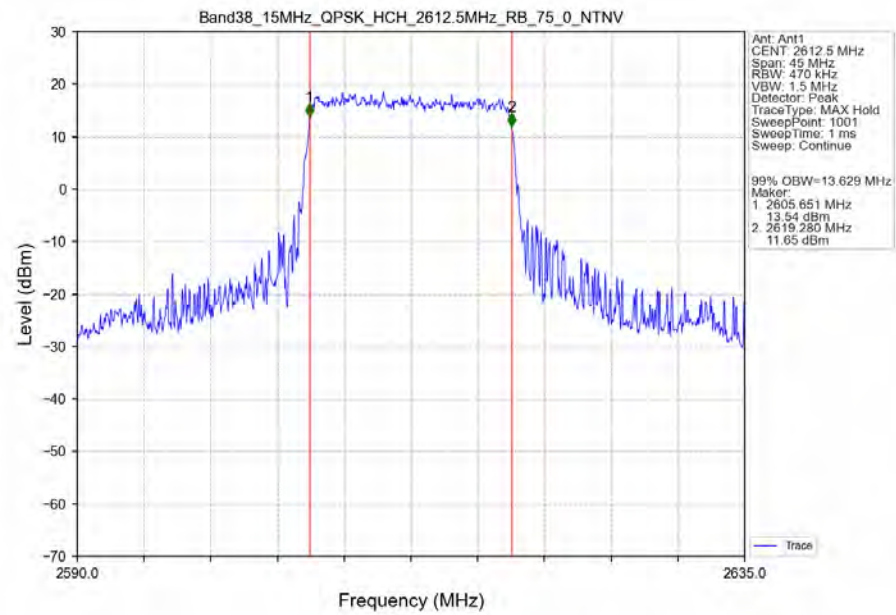
Band38_15MHz_QPSK_LCH_2577.5MHz_RB_75_0_NTNV



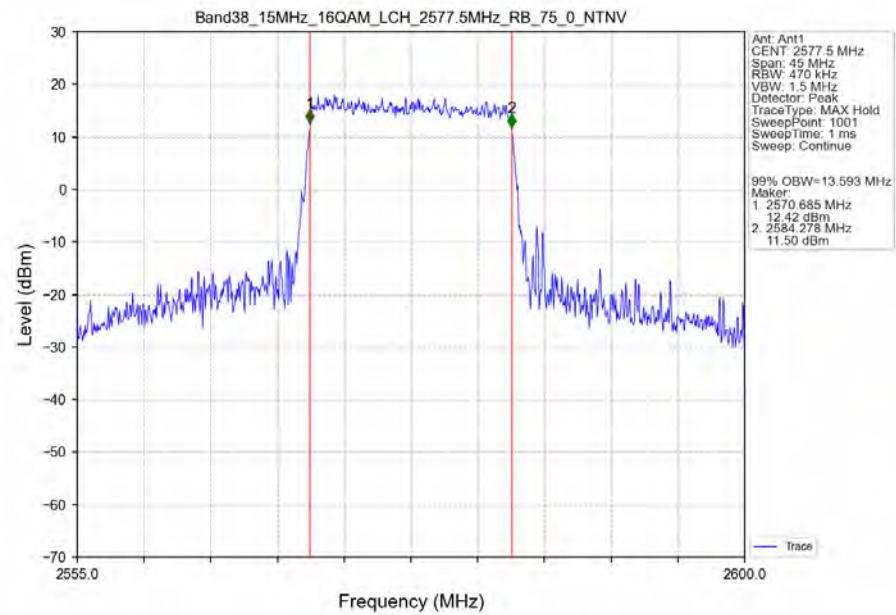
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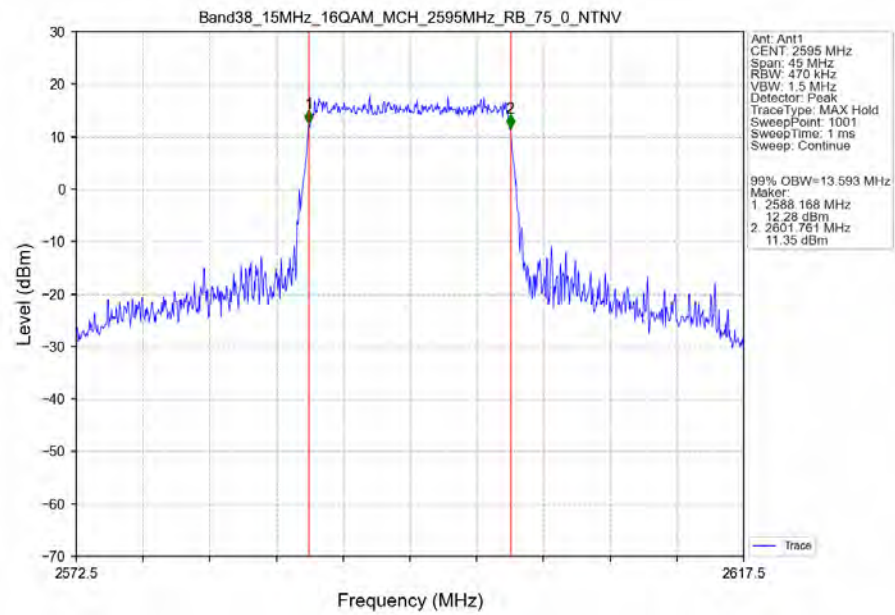
Band38_15MHz_QPSK_HCH_2612.5MHz_RB_75_0_NTNV



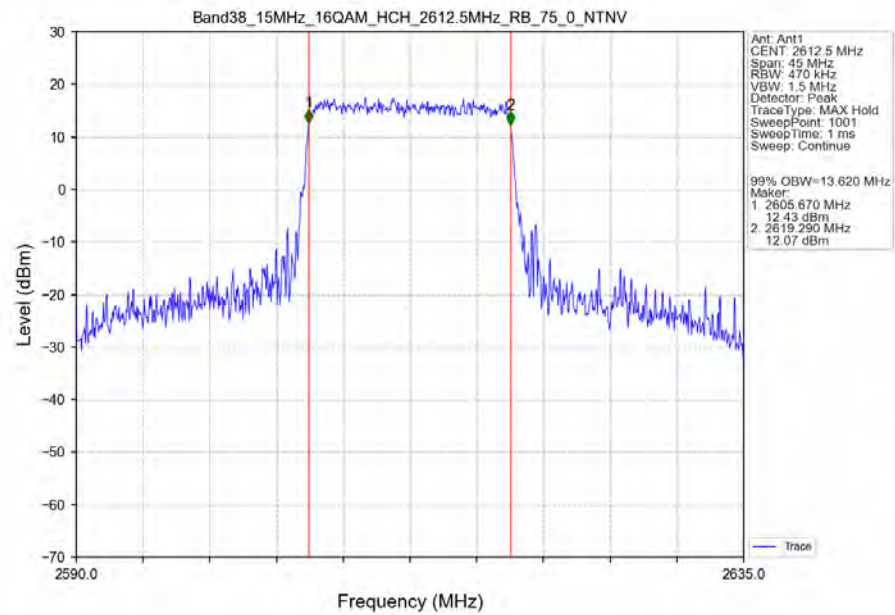
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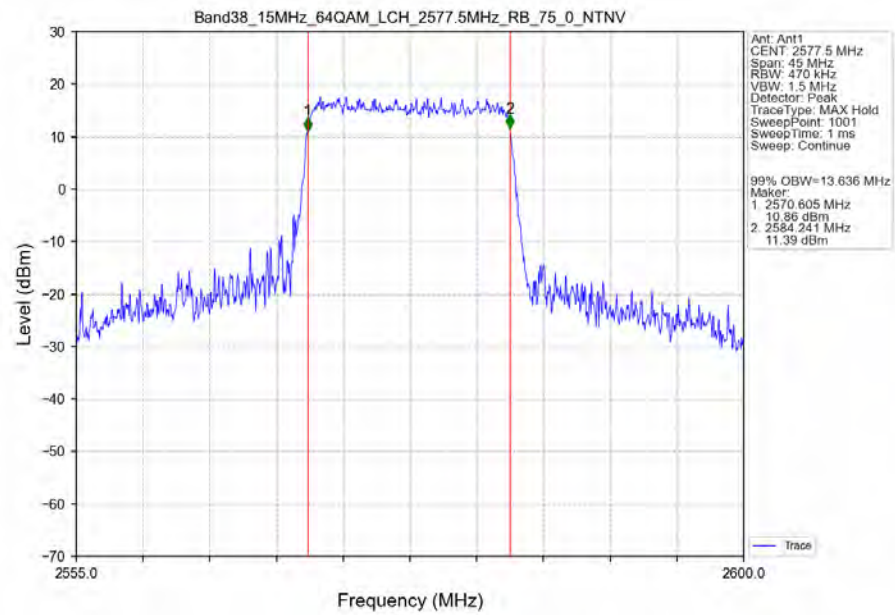
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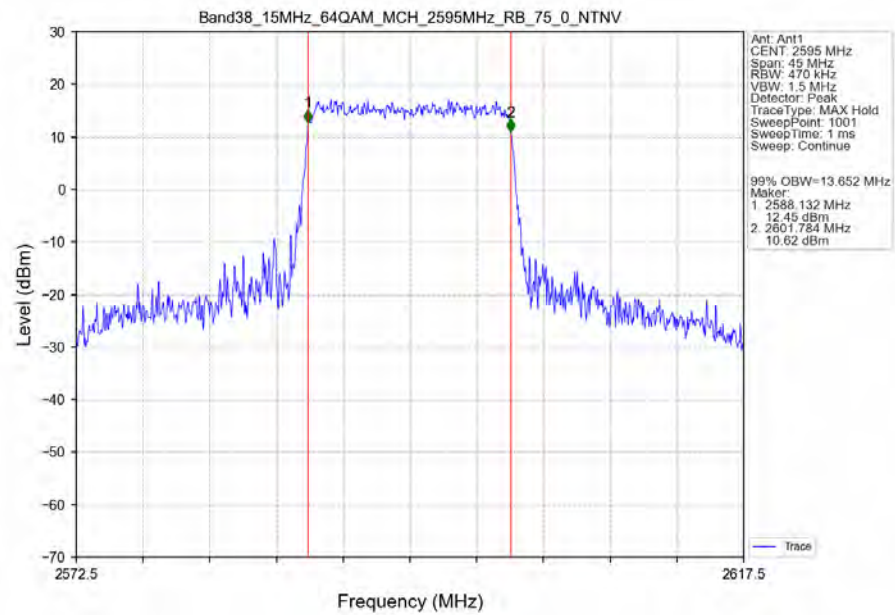
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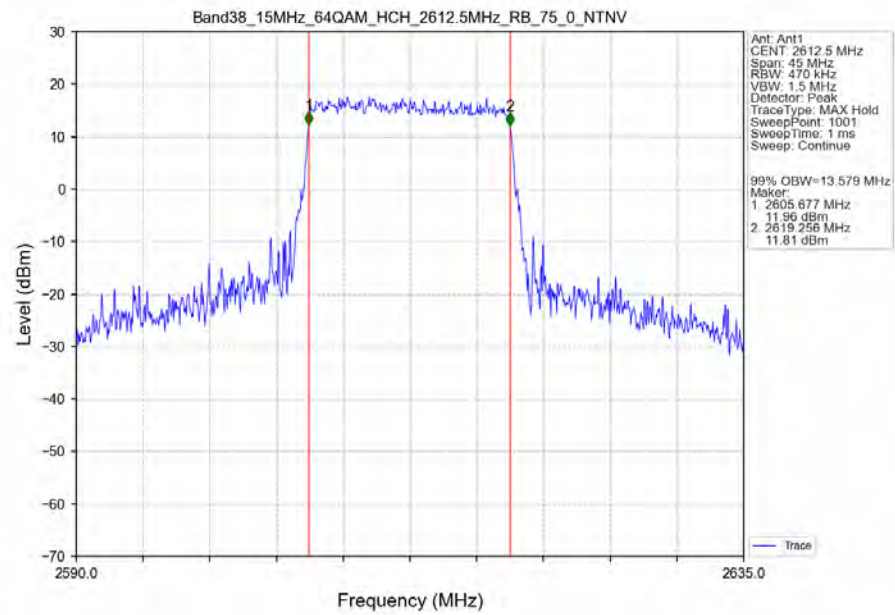
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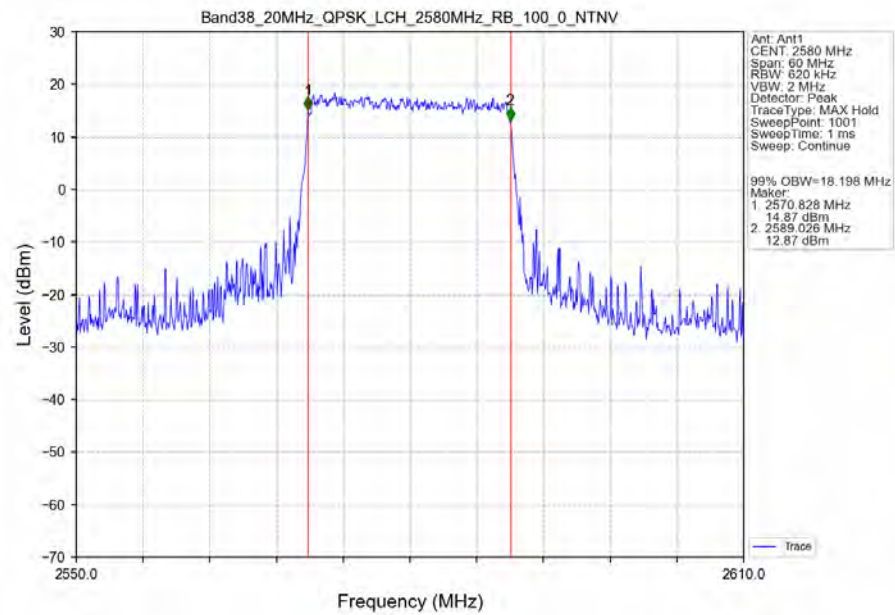
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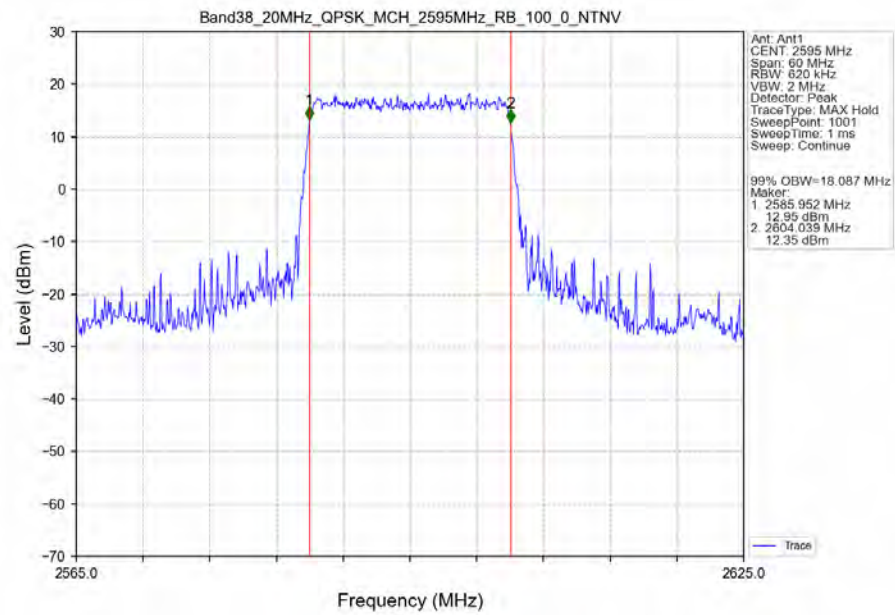
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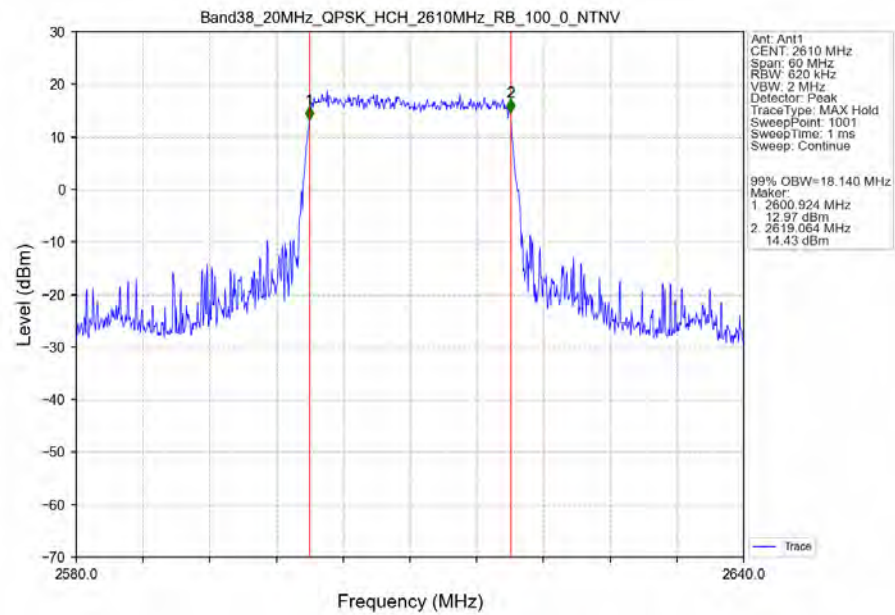
Band38_20MHz_QPSK_LCH_2580MHz_RB_100_0_NTNV



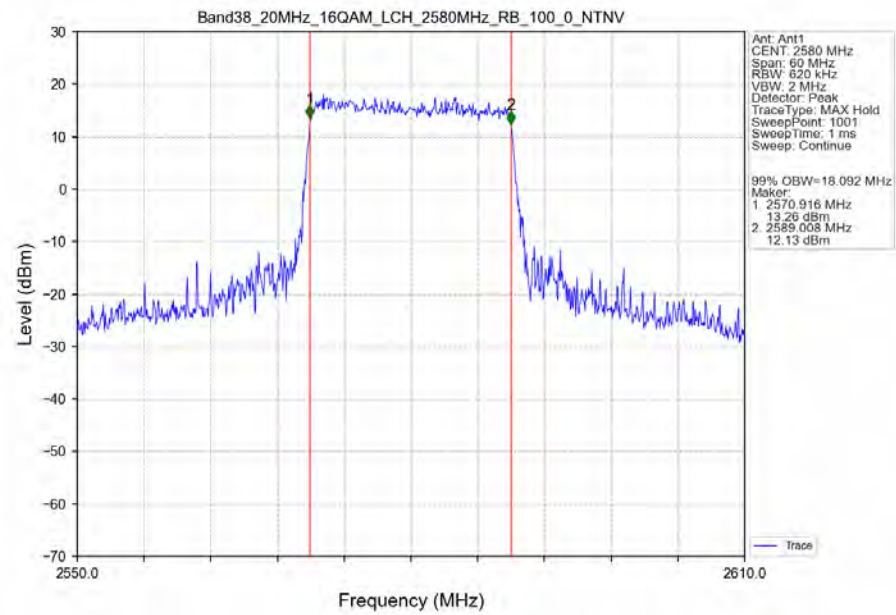
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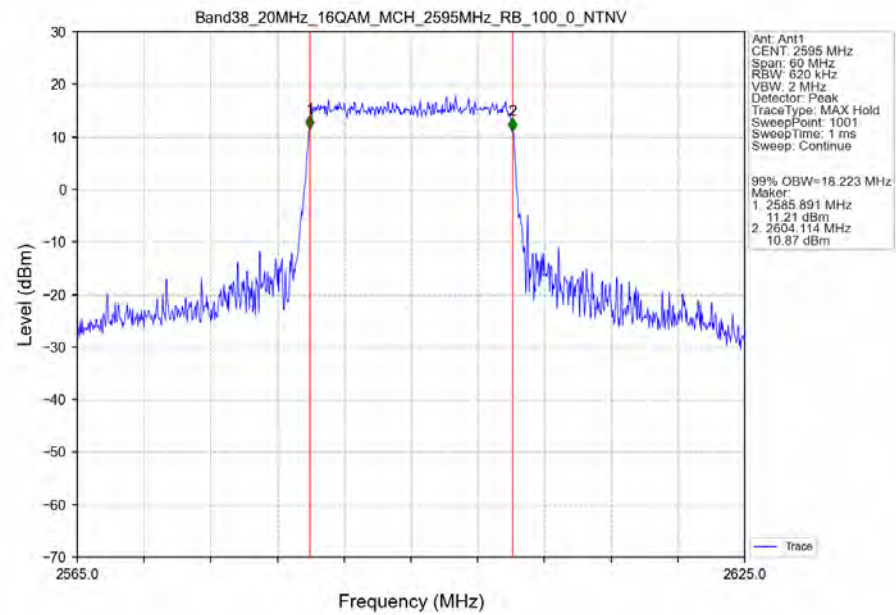
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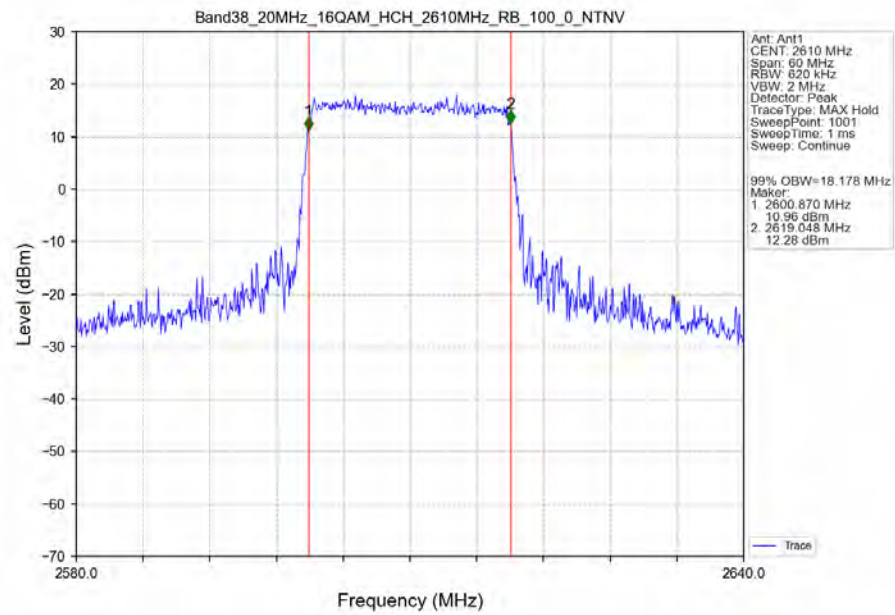
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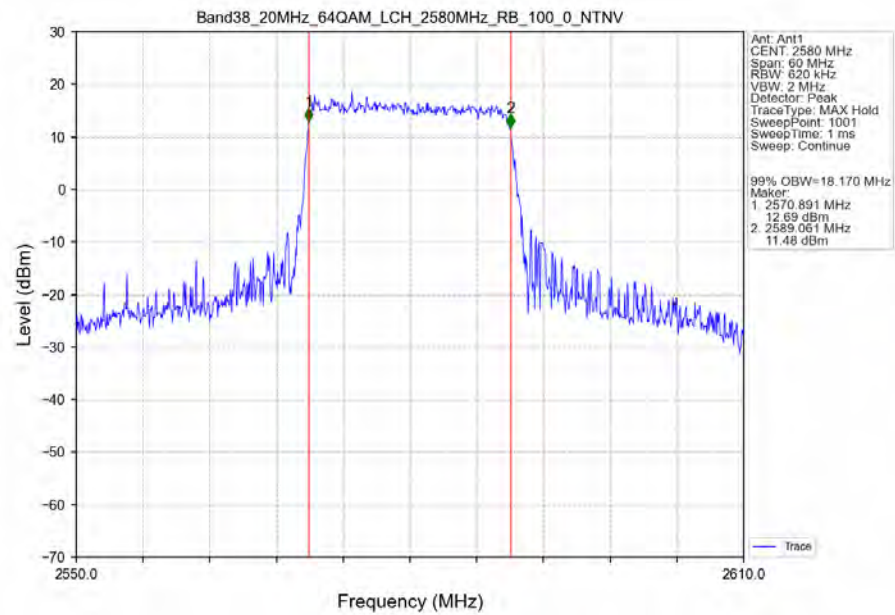
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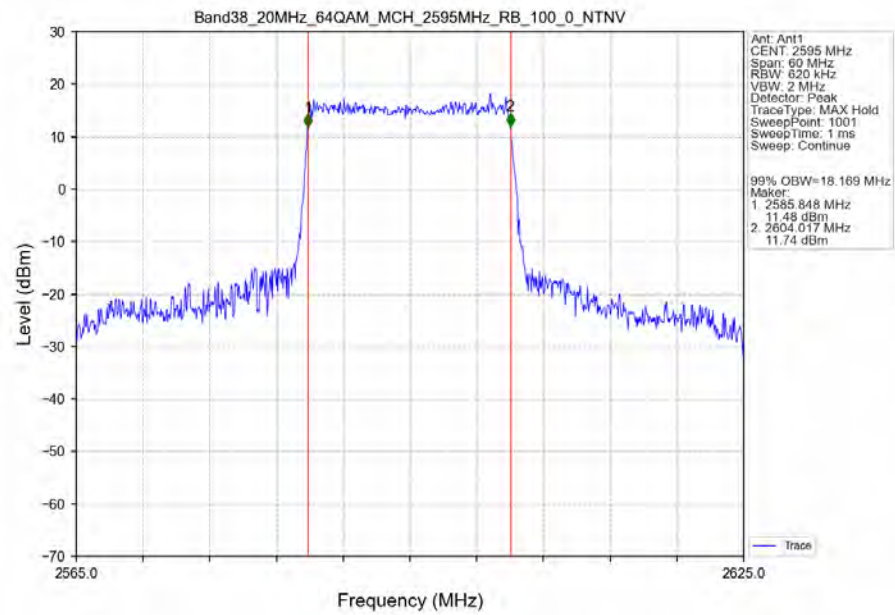
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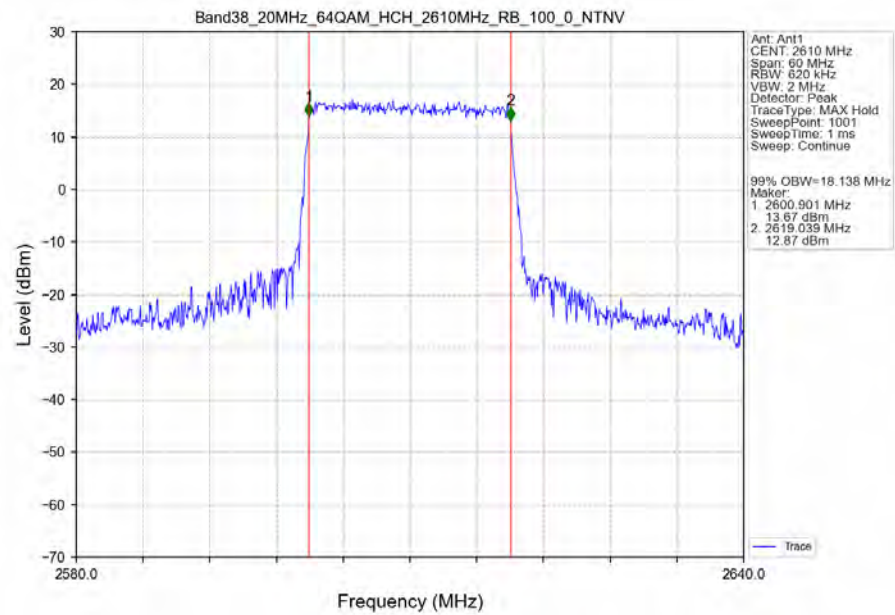
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Band38_20MHz_64QAM_MCH_2595MHz_RB_100_0_NTNV

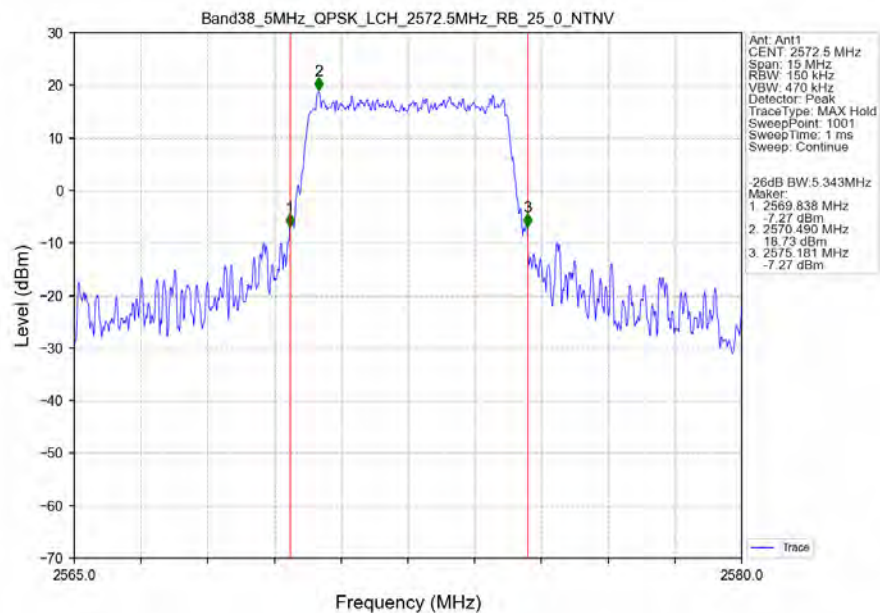


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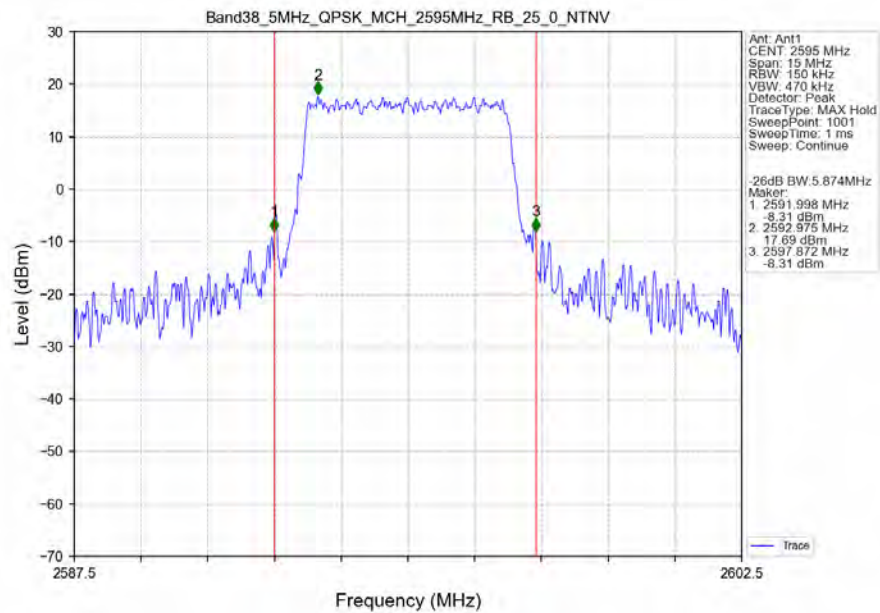


3.2.2 Band38_XDB

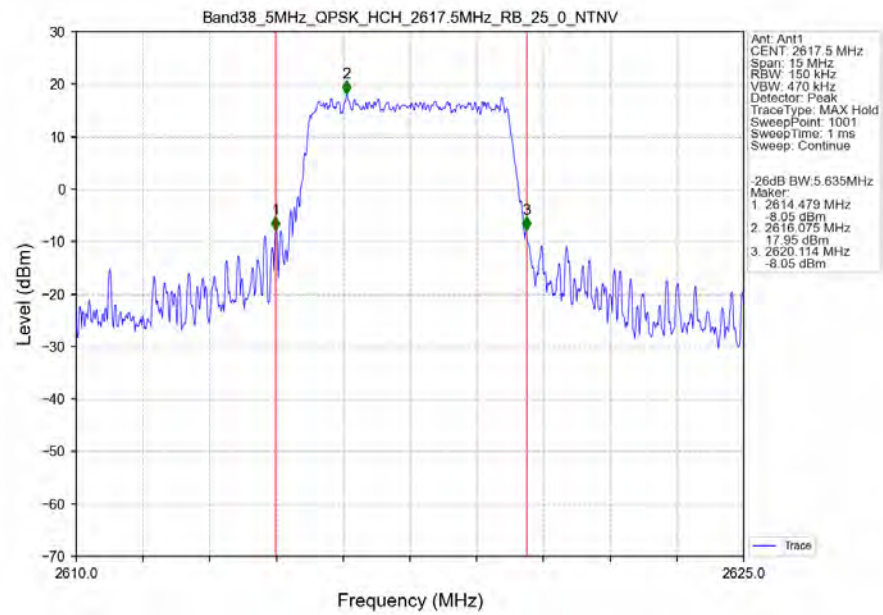
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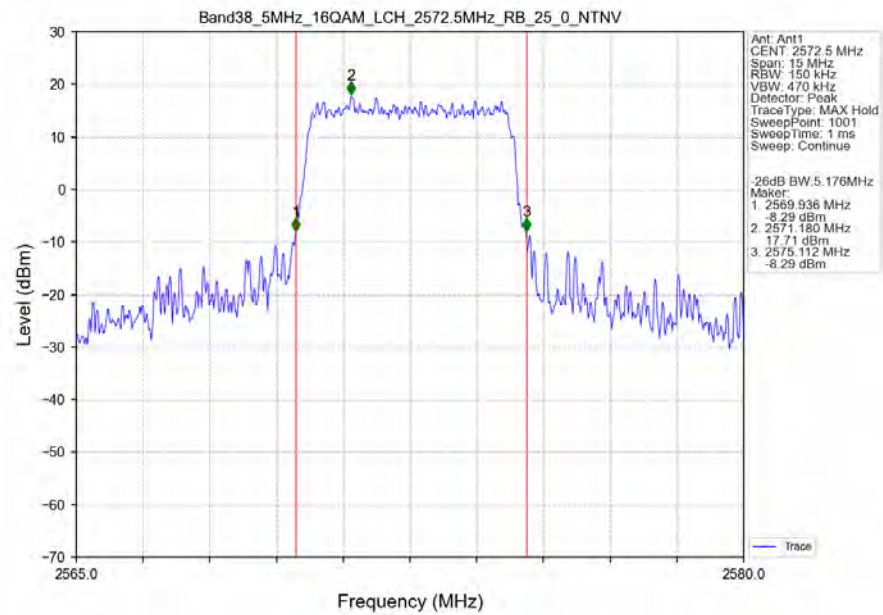
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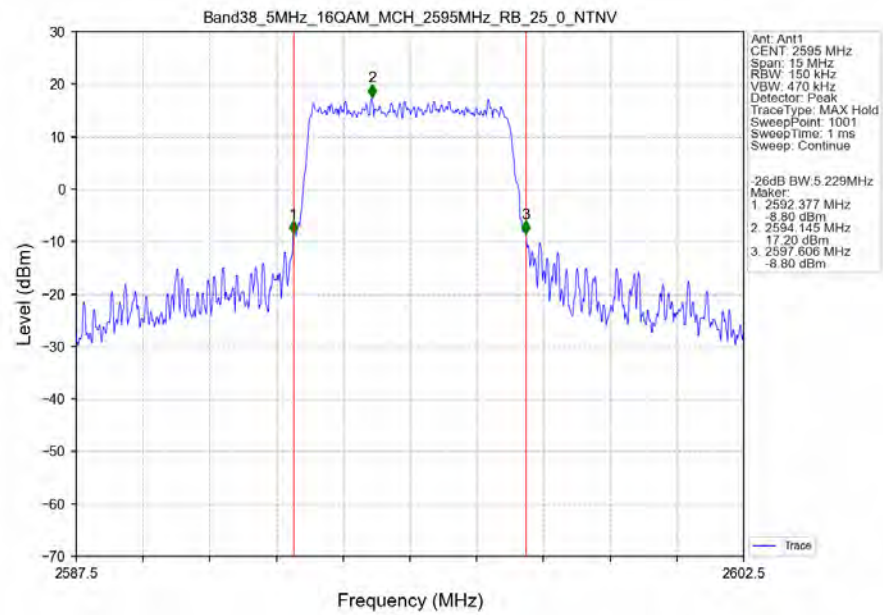
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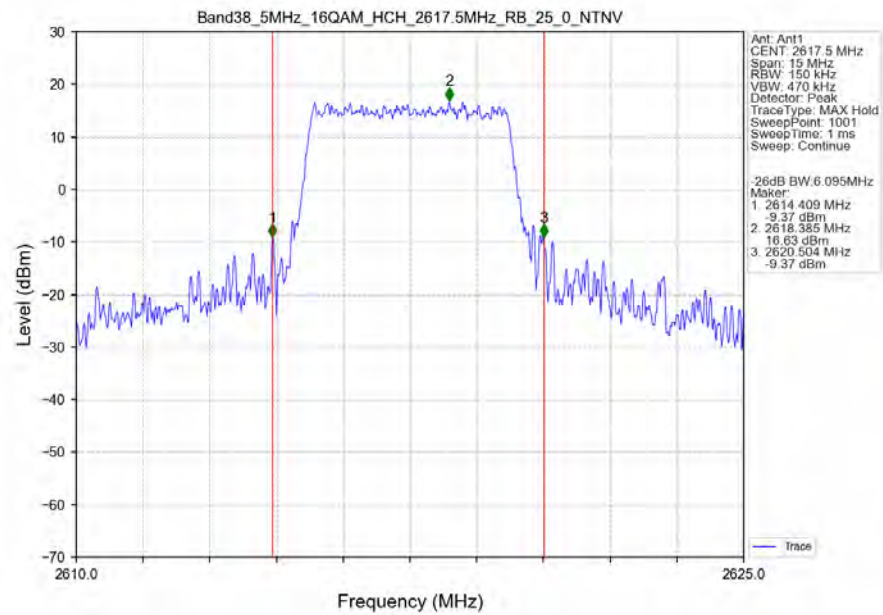
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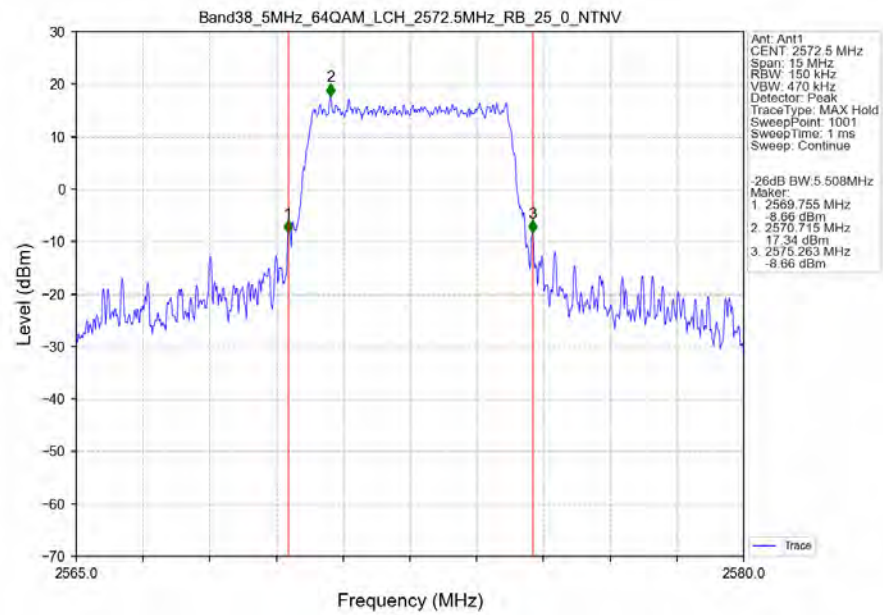
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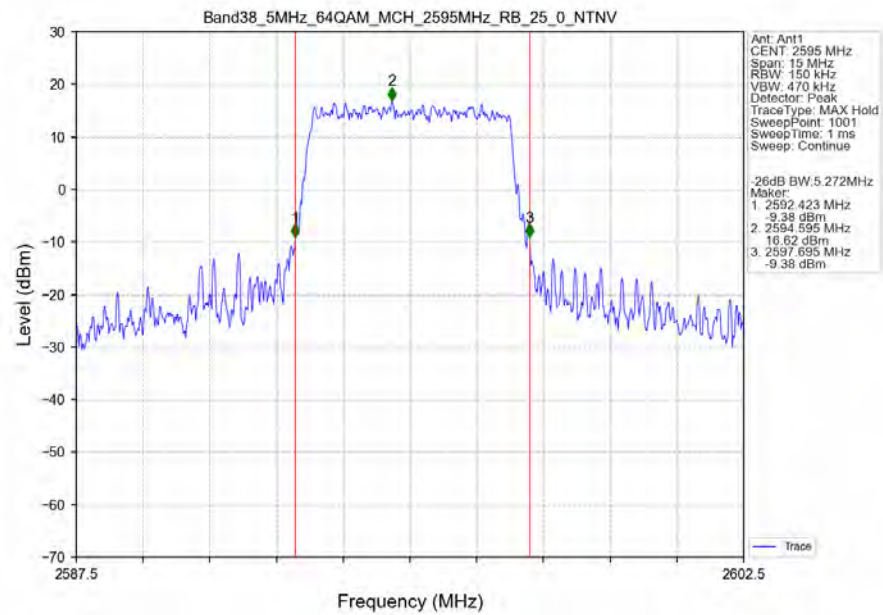
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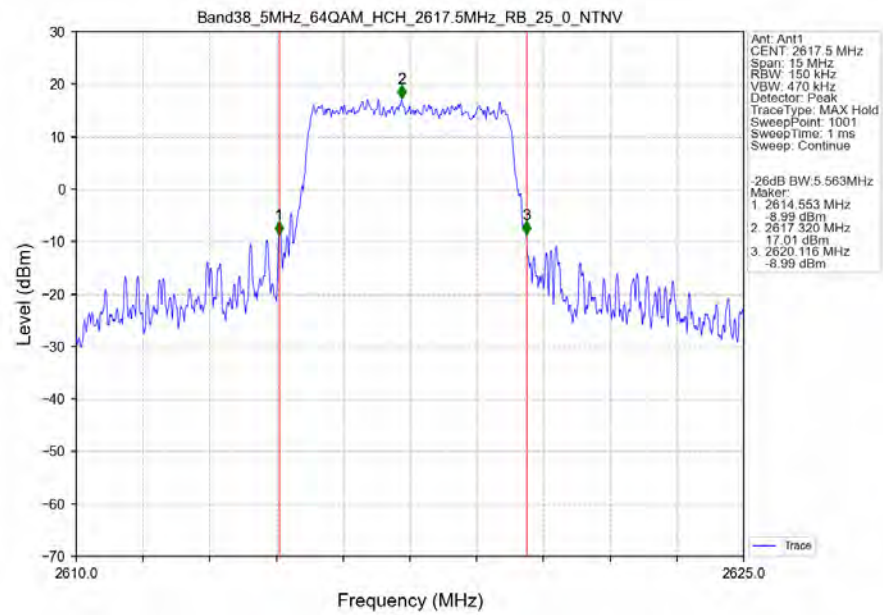
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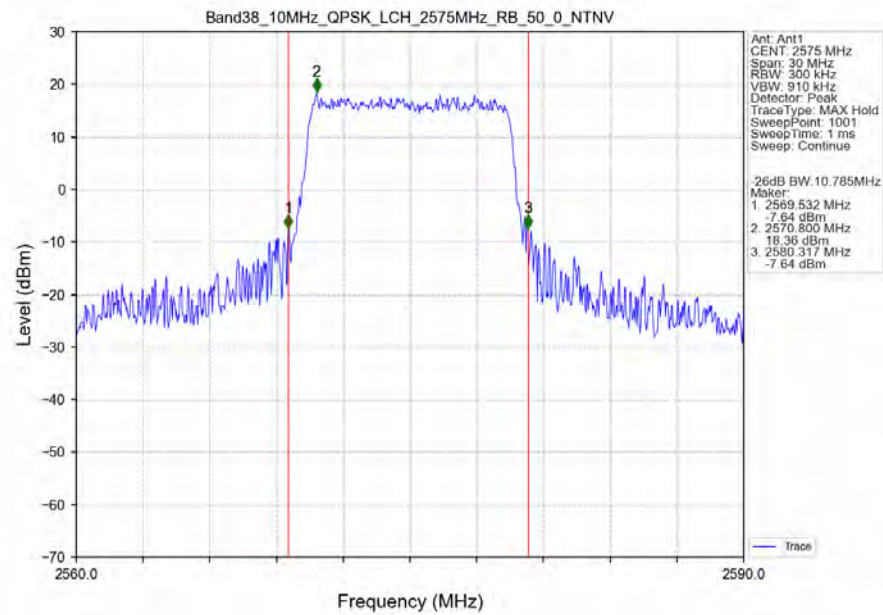
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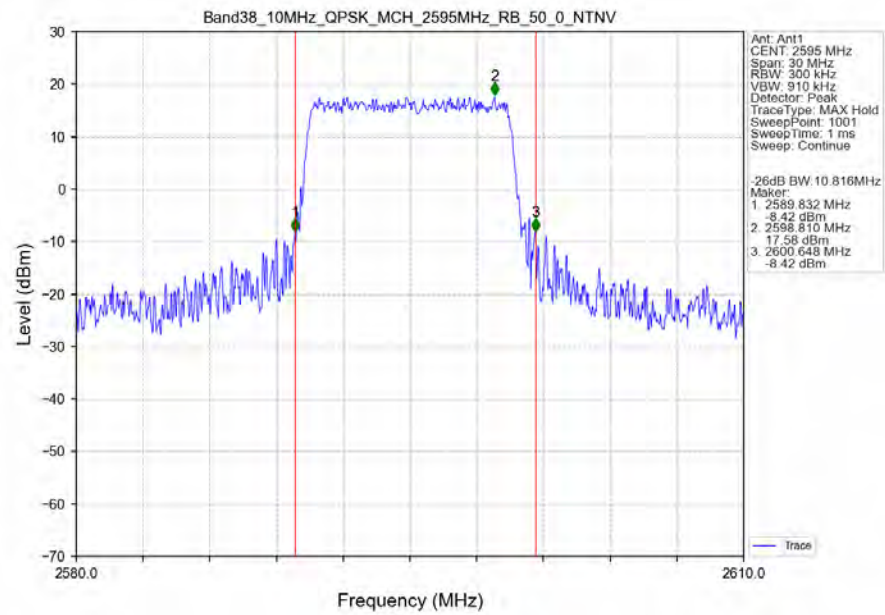
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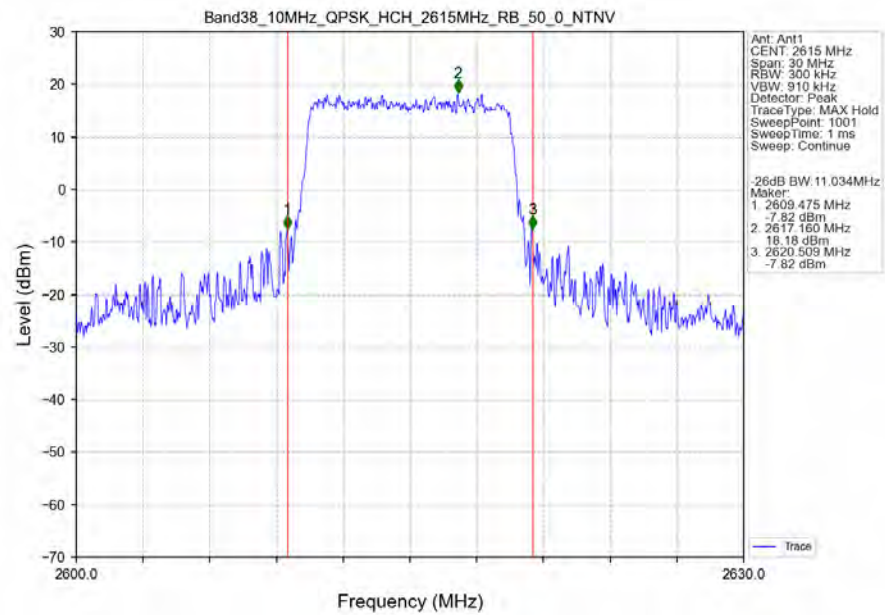
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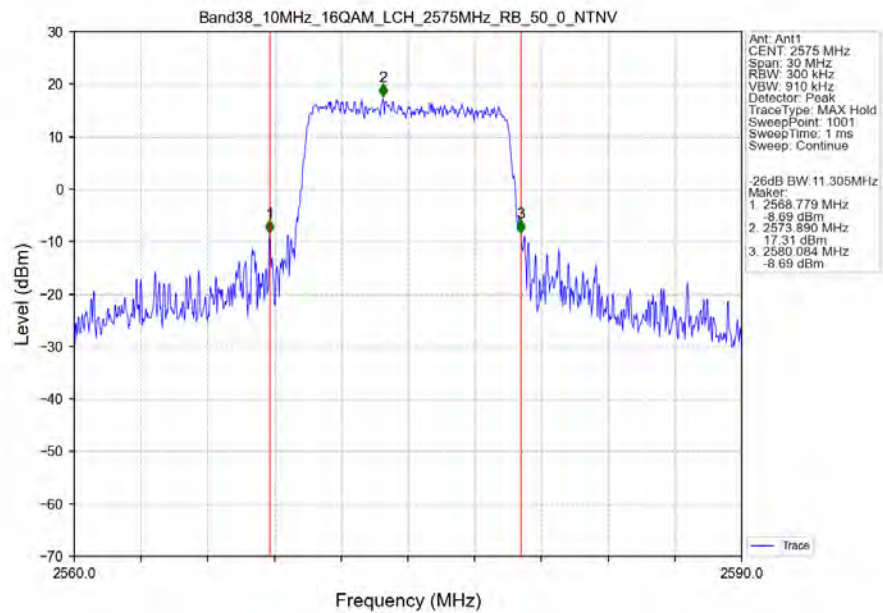
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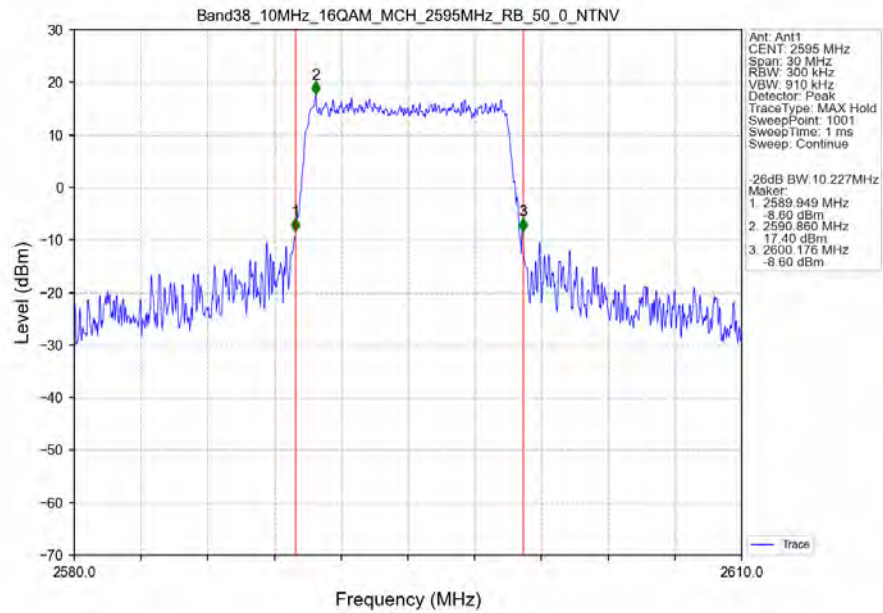
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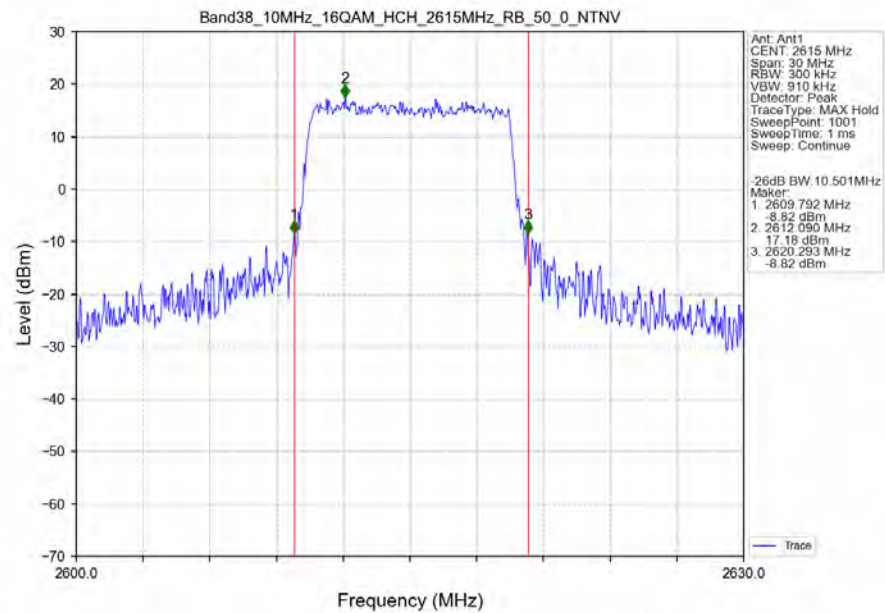
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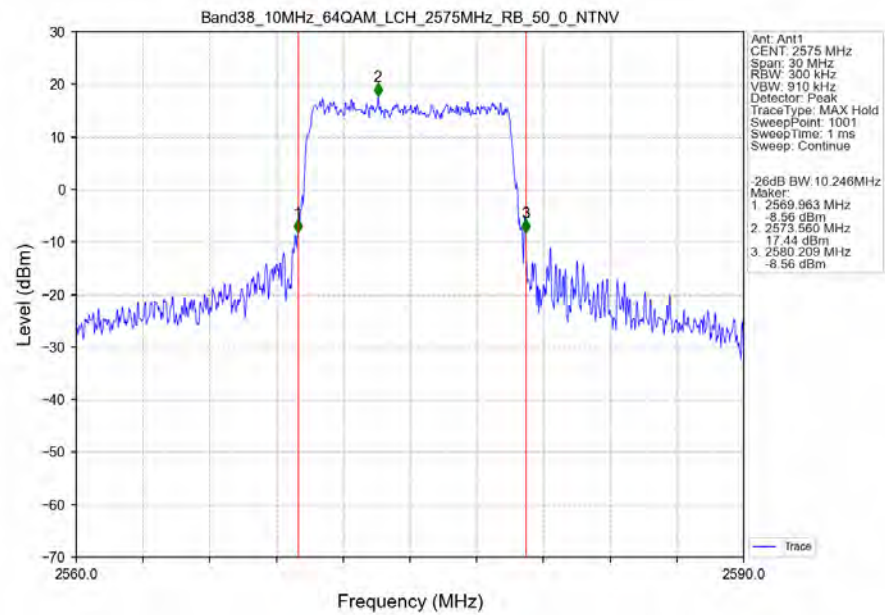
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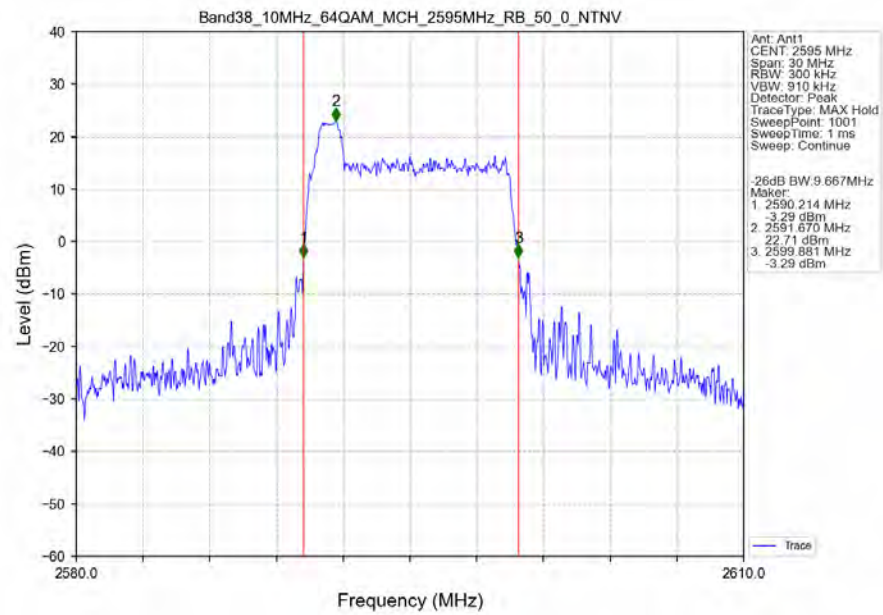
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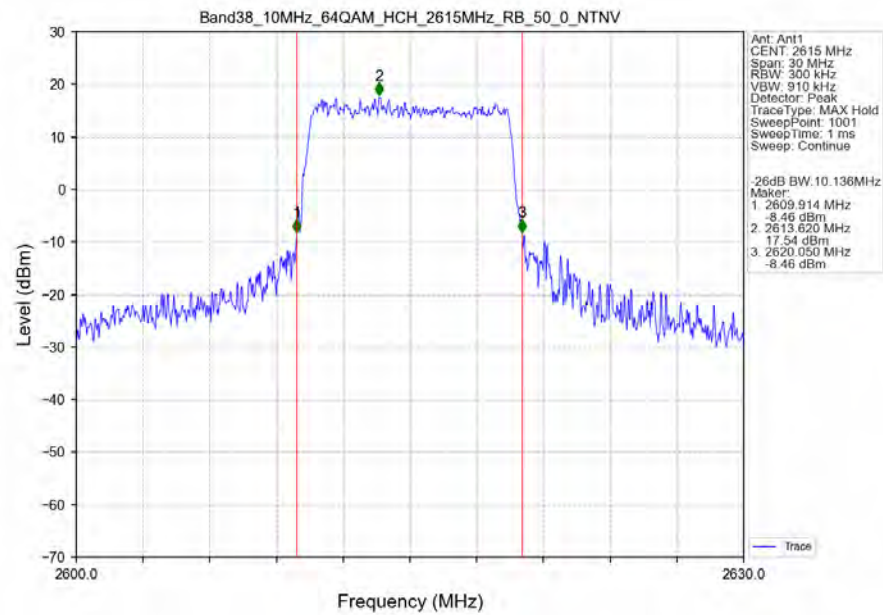
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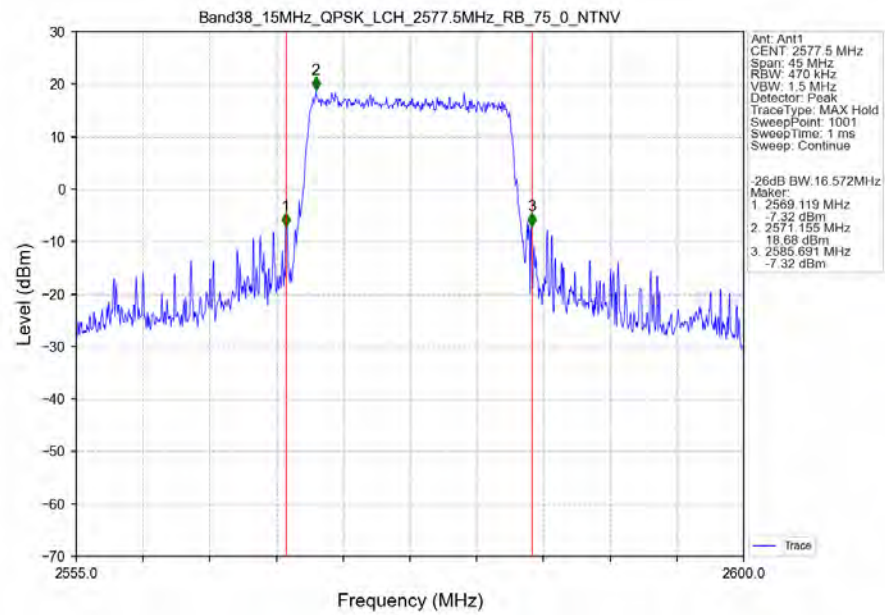
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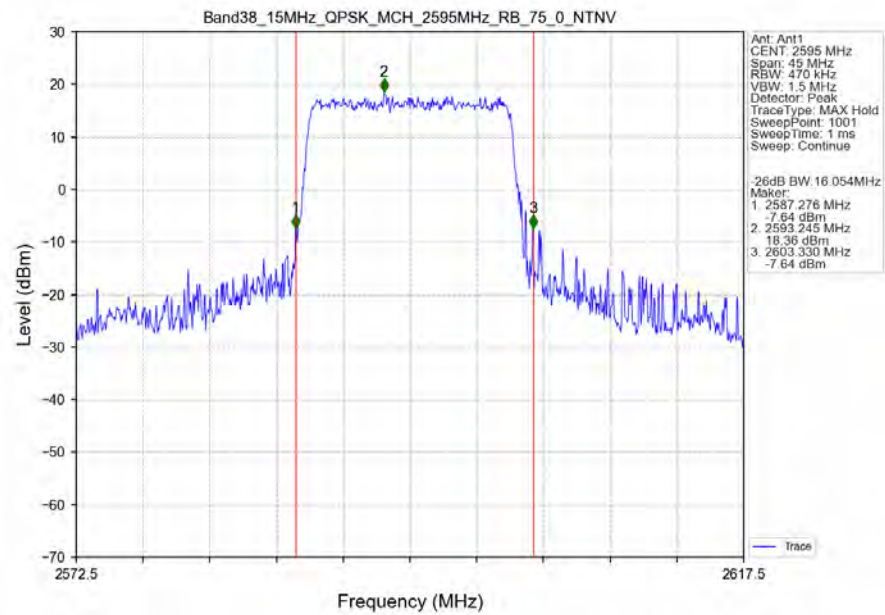
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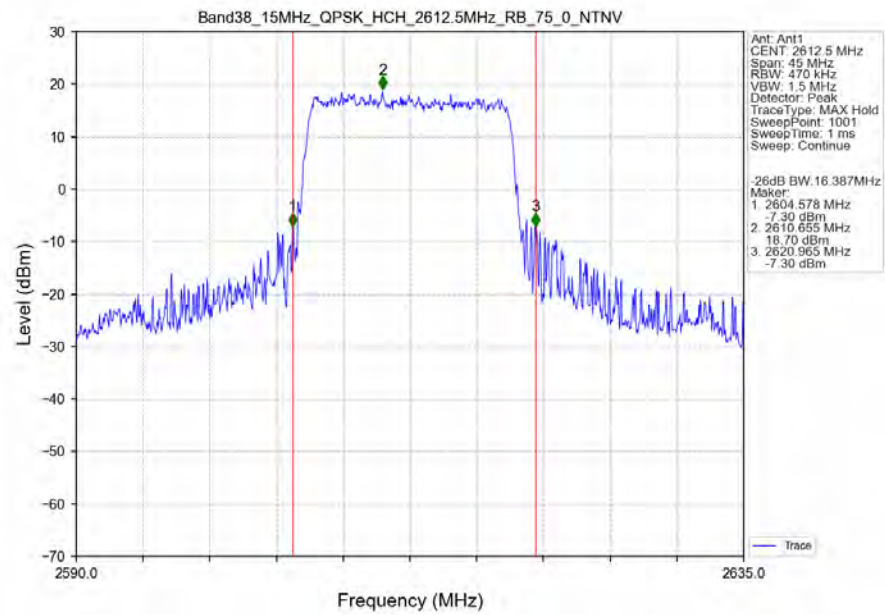
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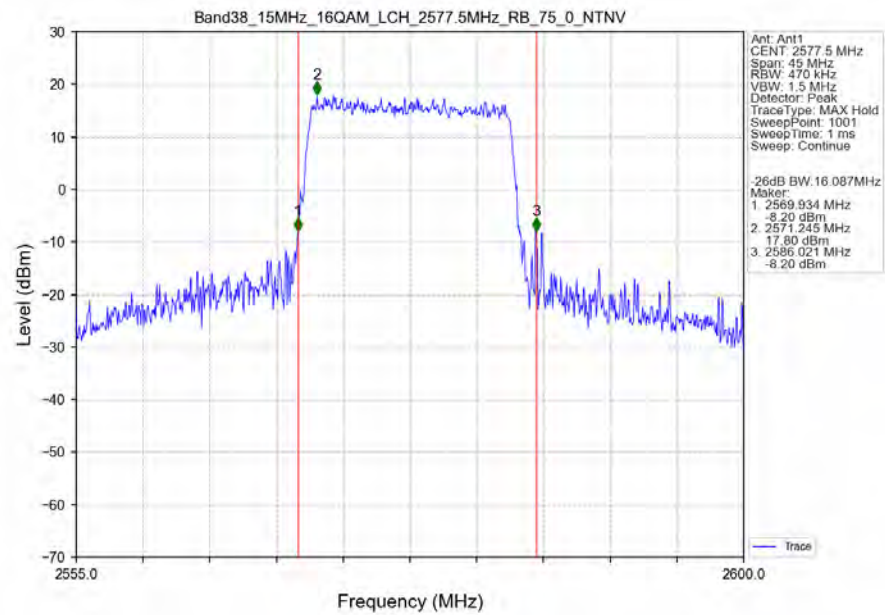
Band38_15MHz_QPSK_MCH_2595MHz_RB_75_0_NTNV



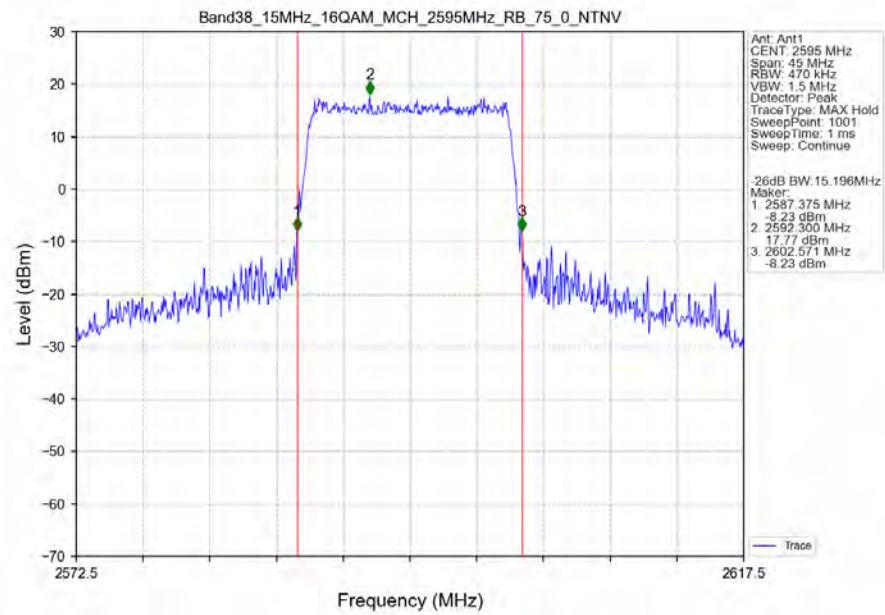
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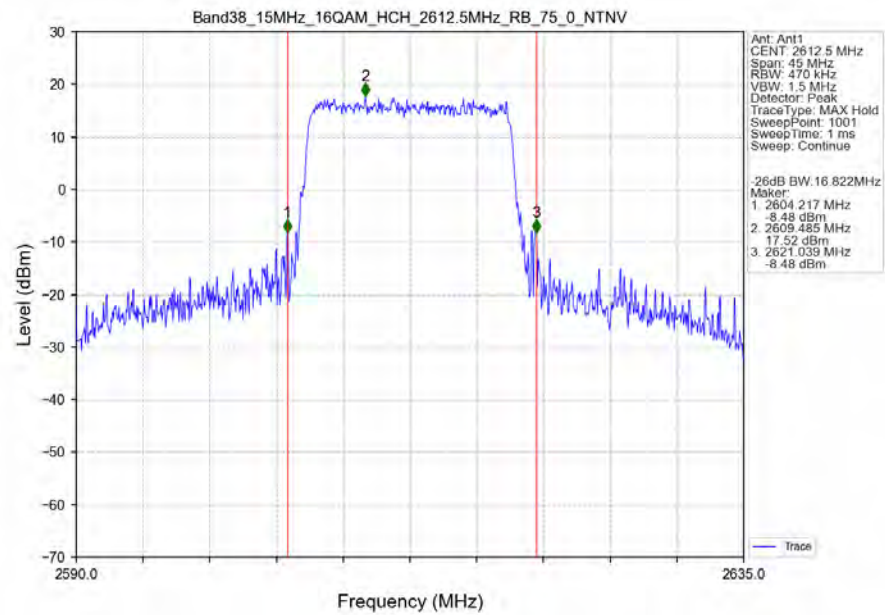
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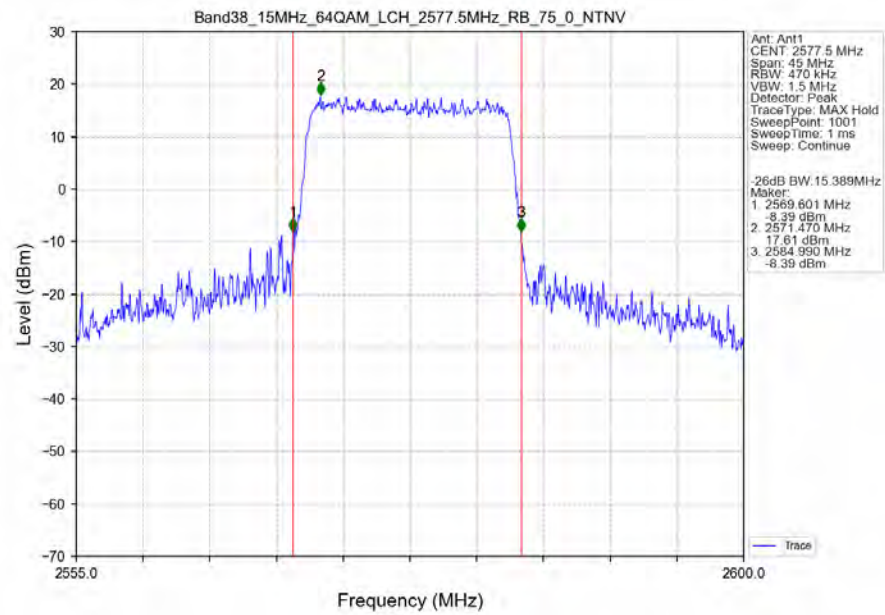
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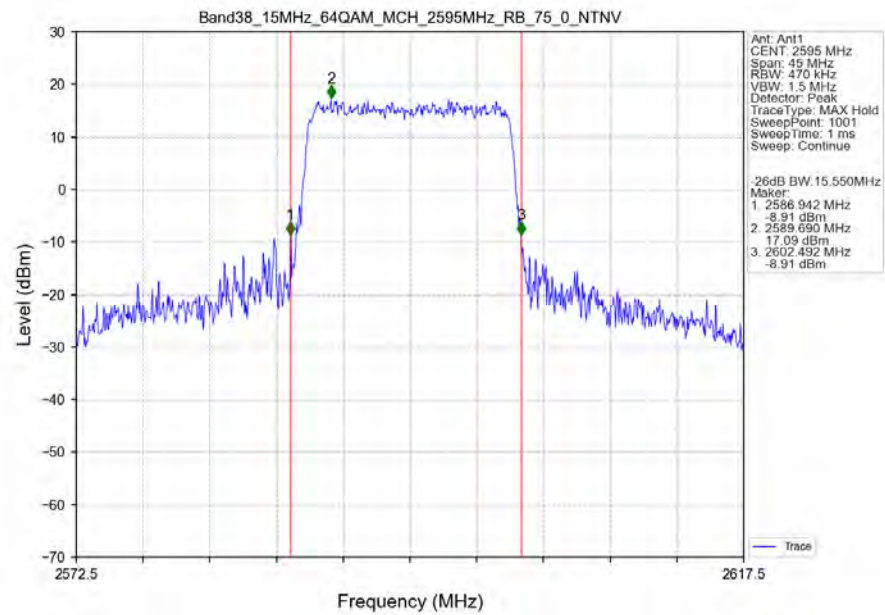
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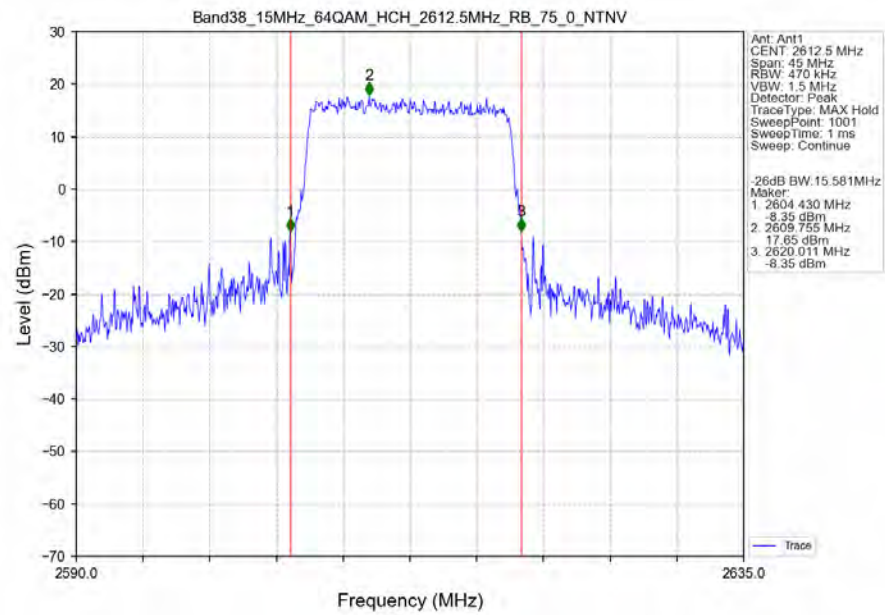
Band38_15MHz_64QAM_LCH_2577.5MHz_RB_75_0_NTNV



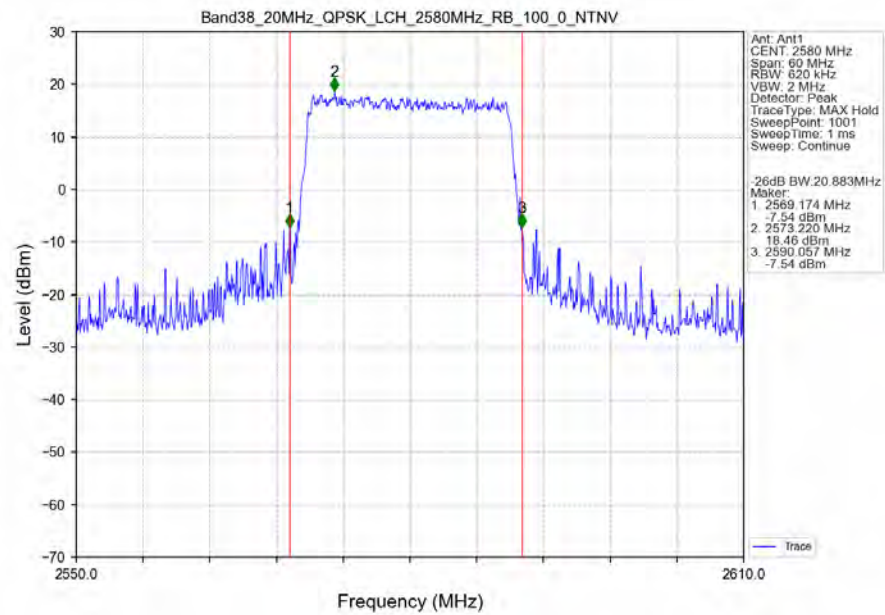
Band38_15MHz_64QAM_MCH_2595MHz_RB_75_0_NTNV



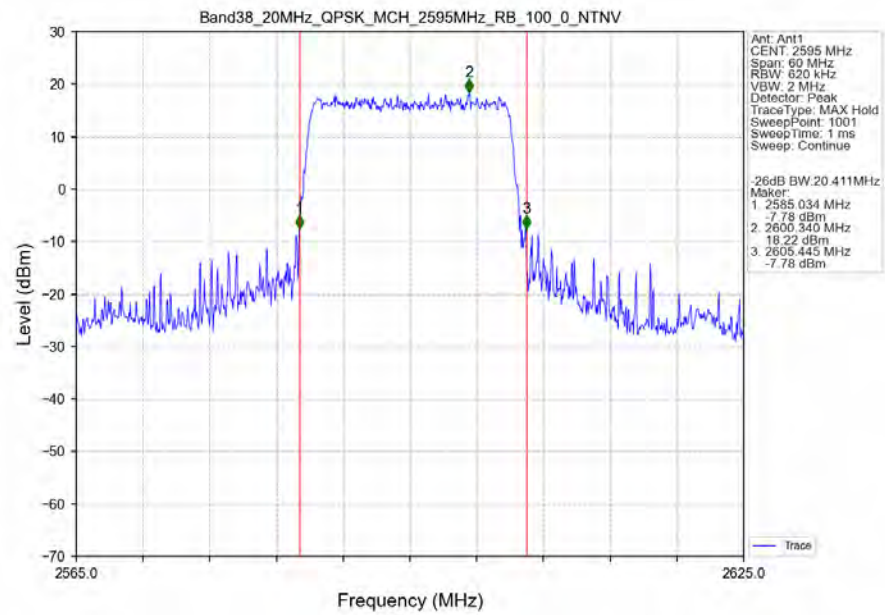
Band38_15MHz_64QAM_HCH_2612.5MHz_RB_75_0_NTNV



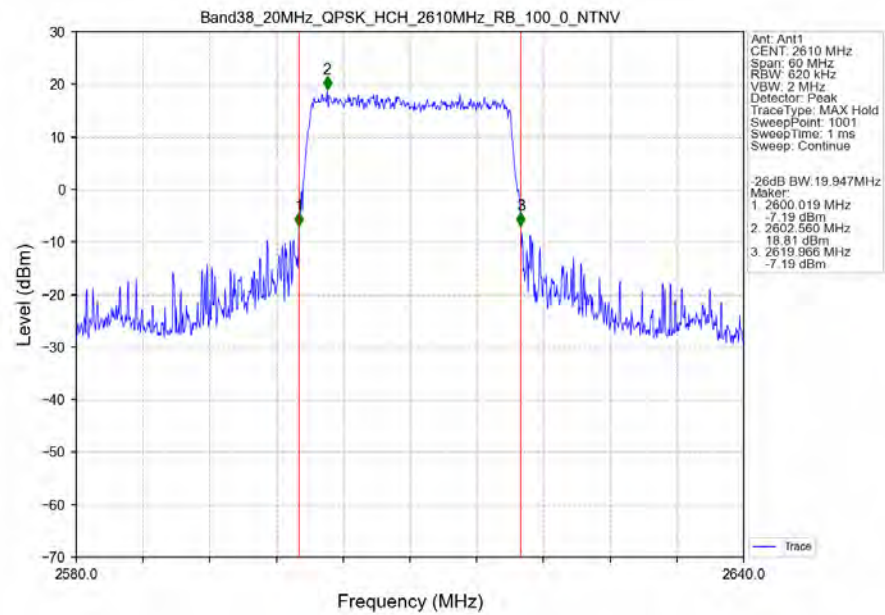
Band38_20MHz_QPSK_LCH_2580MHz_RB_100_0_NTNV



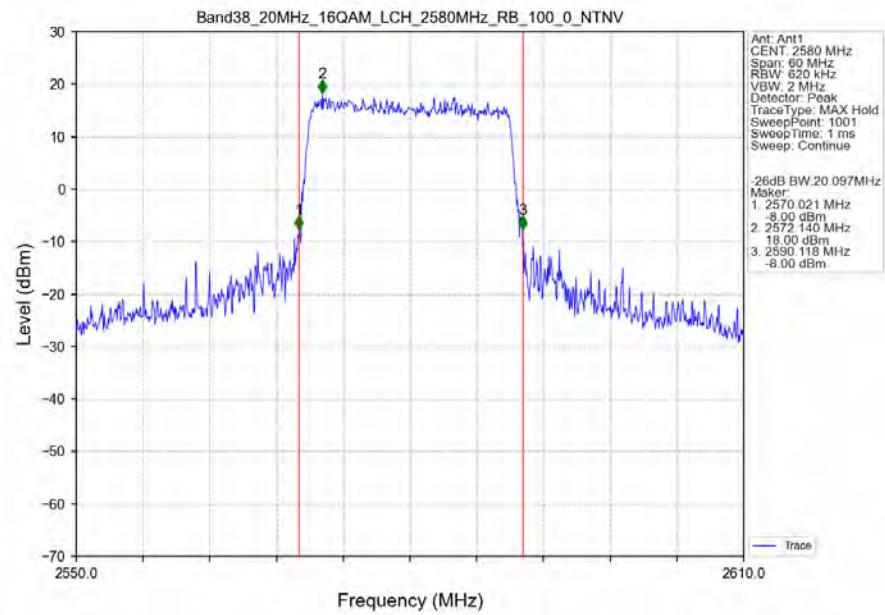
Band38_20MHz_QPSK_MCH_2595MHz_RB_100_0_NTNV



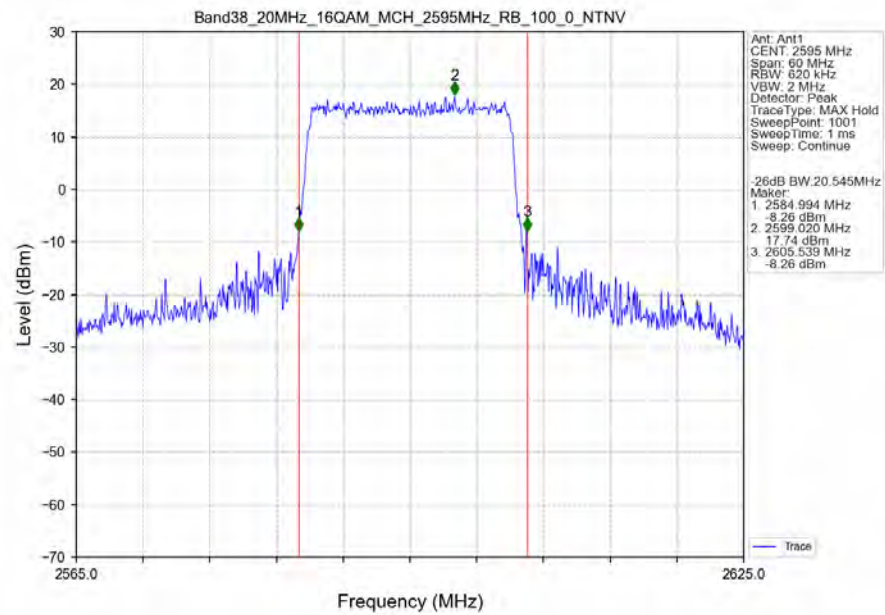
Band38_20MHz_QPSK_HCH_2610MHz_RB_100_0_NTNV



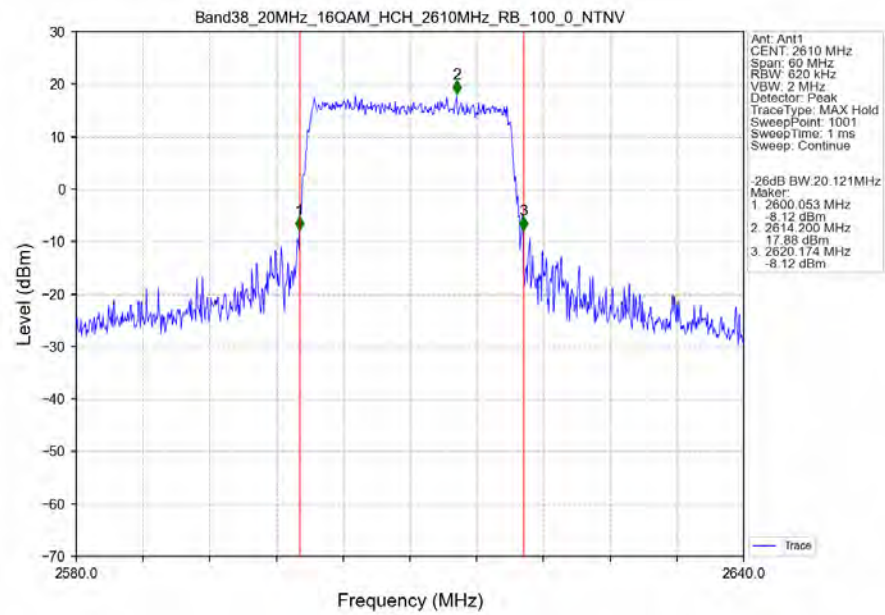
Band38_20MHz_16QAM_LCH_2580MHz_RB_100_0_NTNV



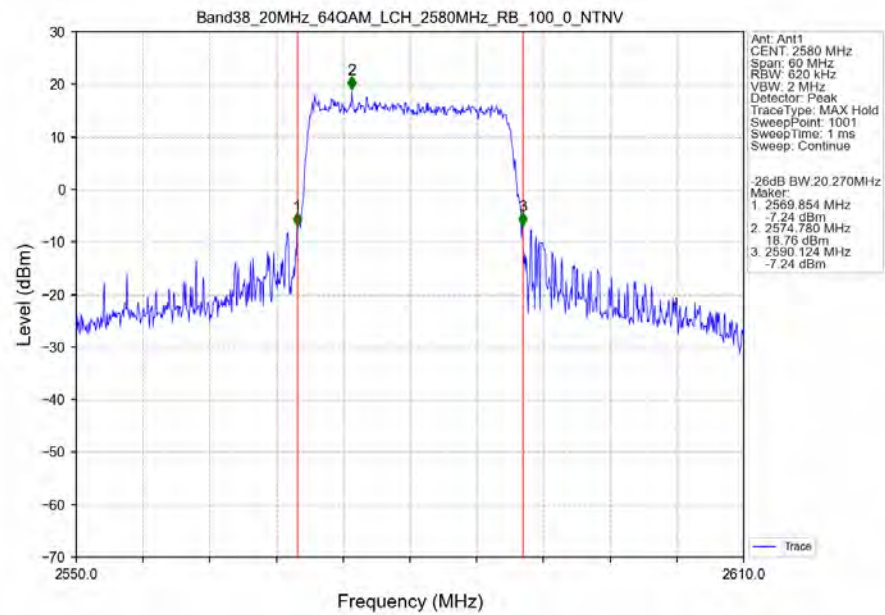
Band38_20MHz_16QAM_MCH_2595MHz_RB_100_0_NTNV



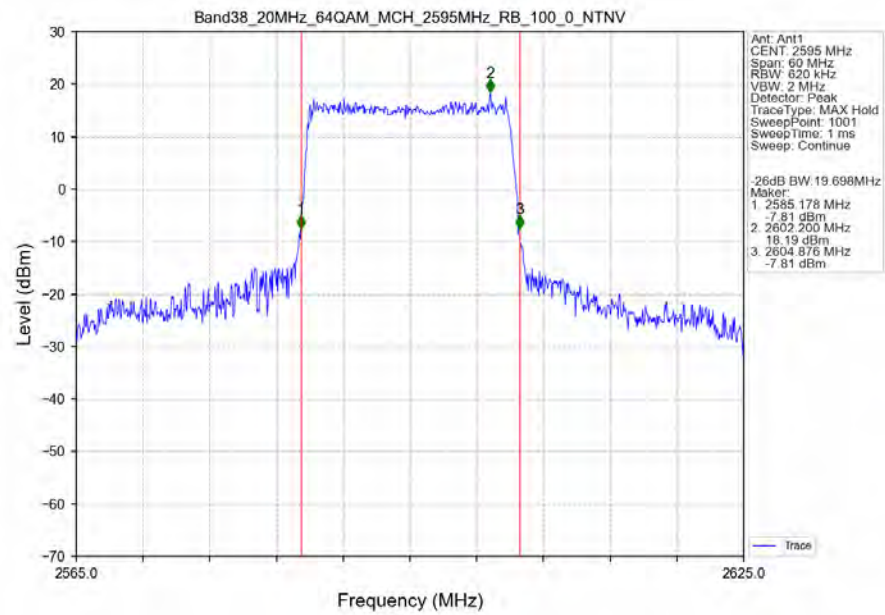
Band38_20MHz_16QAM_HCH_2610MHz_RB_100_0_NTNV



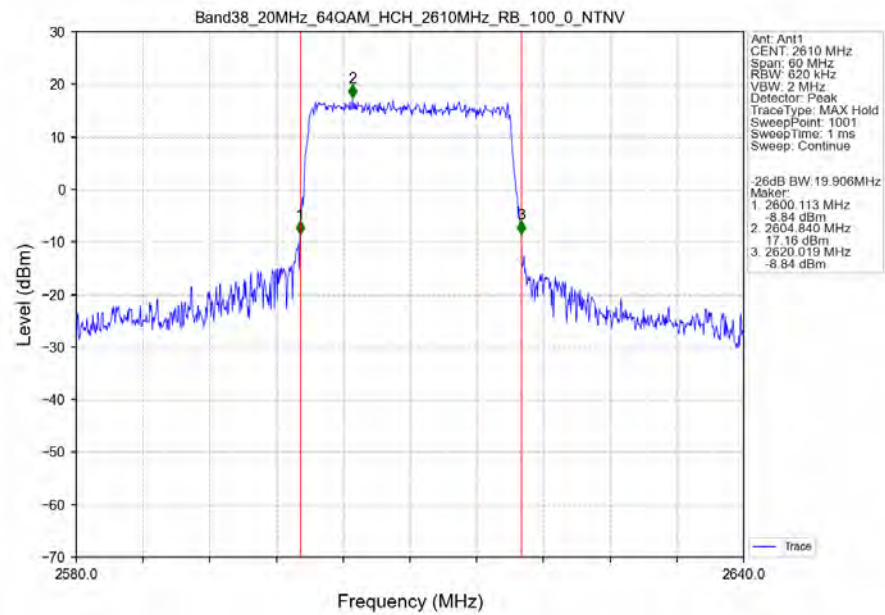
Band38_20MHz_64QAM_LCH_2580MHz_RB_100_0_NTNV



Band38_20MHz_64QAM_MCH_2595MHz_RB_100_0_NTNV



Band38_20MHz_64QAM_HCH_2610MHz_RB_100_0_NTNV



4. Peak-Average Ratio

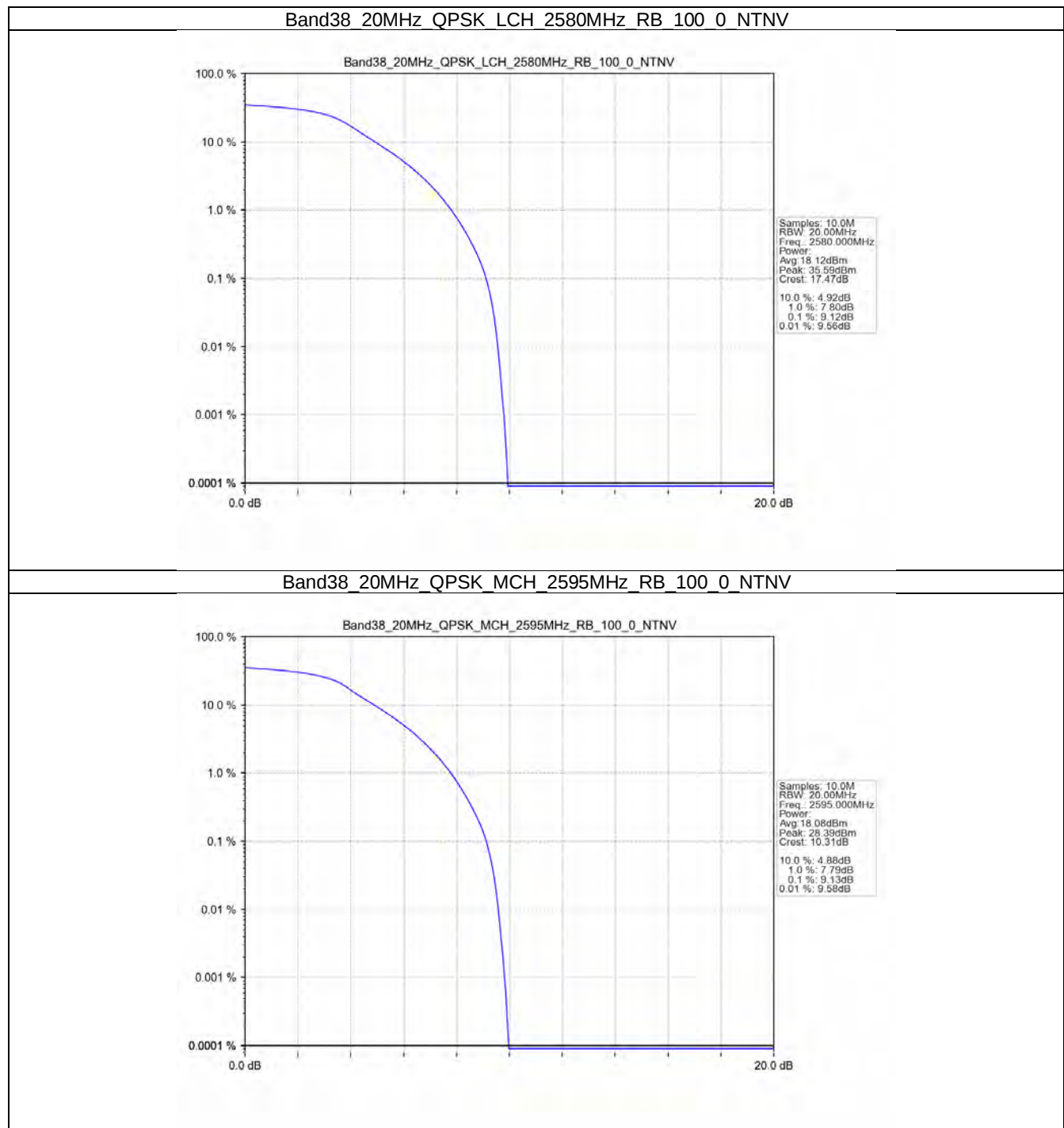
4.1 Test Result

4.1.1 B38_20MHz

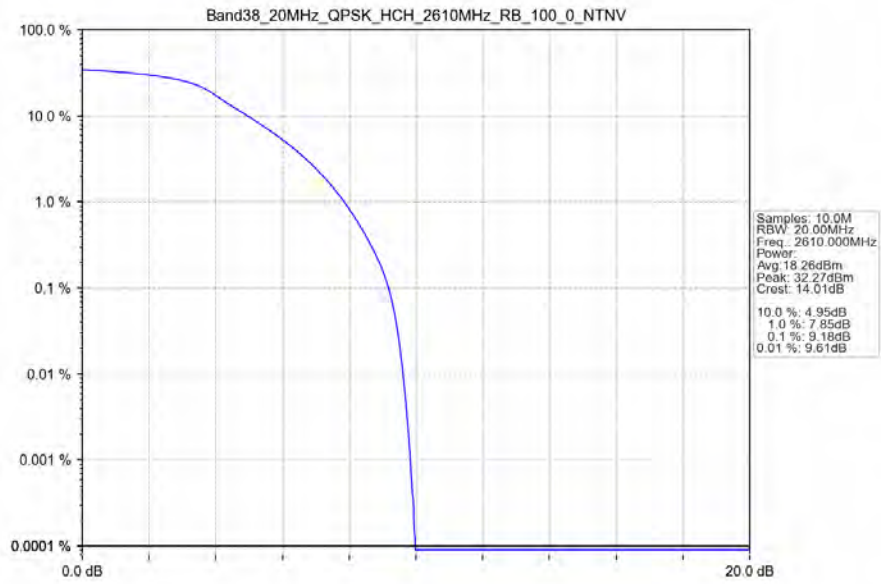
Band: 38 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2580	100	0	9.12	<=13	Pass
	2595	100	0	9.13	<=13	Pass
	2610	100	0	9.18	<=13	Pass
16QAM	2580	100	0	10.03	<=13	Pass
	2595	100	0	10.07	<=13	Pass
	2610	100	0	9.88	<=13	Pass
64QAM	2580	100	0	10.03	<=13	Pass
	2595	100	0	10.07	<=13	Pass
	2610	100	0	9.99	<=13	Pass

4.2 Test Graph

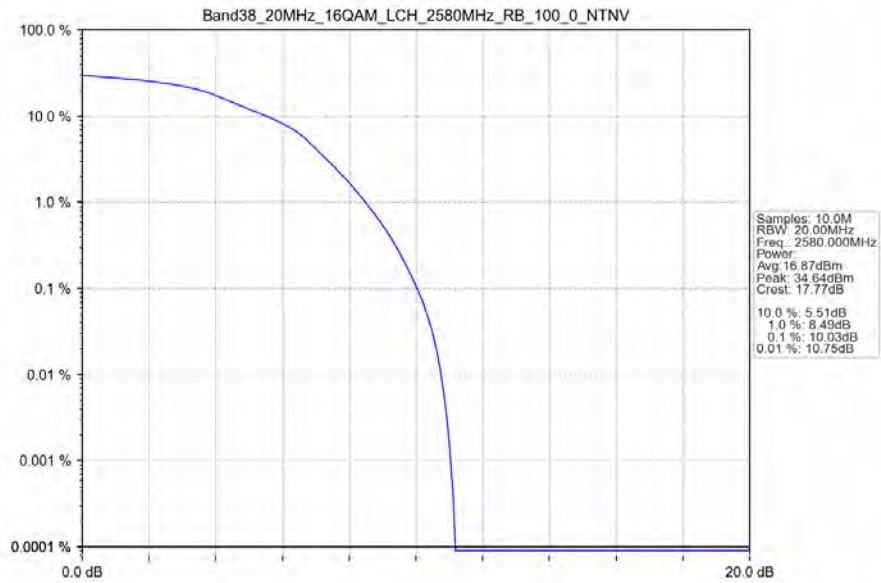
4.2.1 B38_20MHz



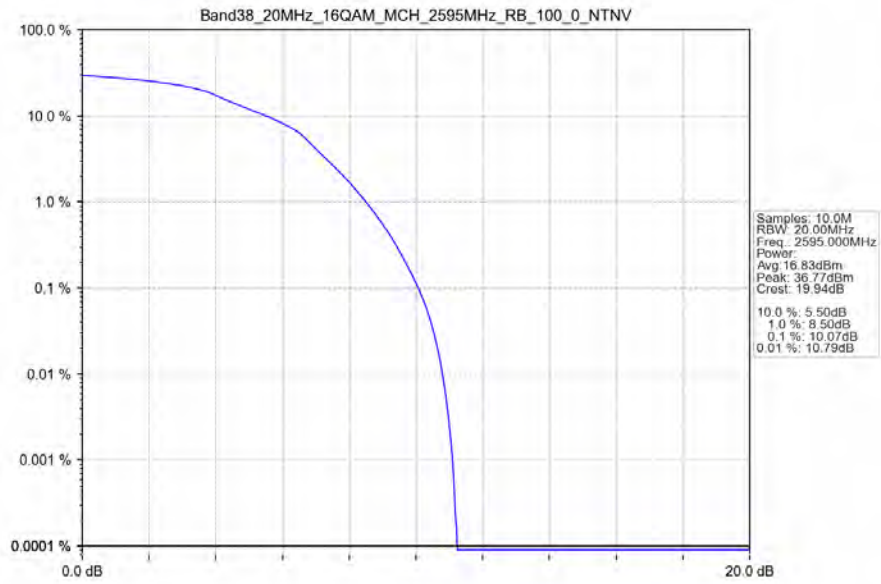
Band38_20MHz_QPSK_HCH_2610MHz_RB_100_0_NTNV



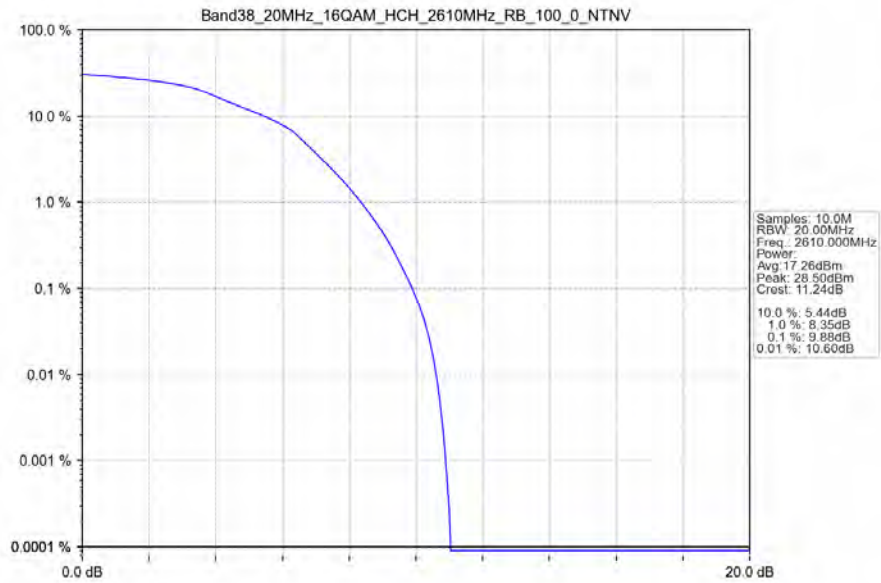
Band38_20MHz_16QAM_LCH_2580MHz_RB_100_0_NTNV



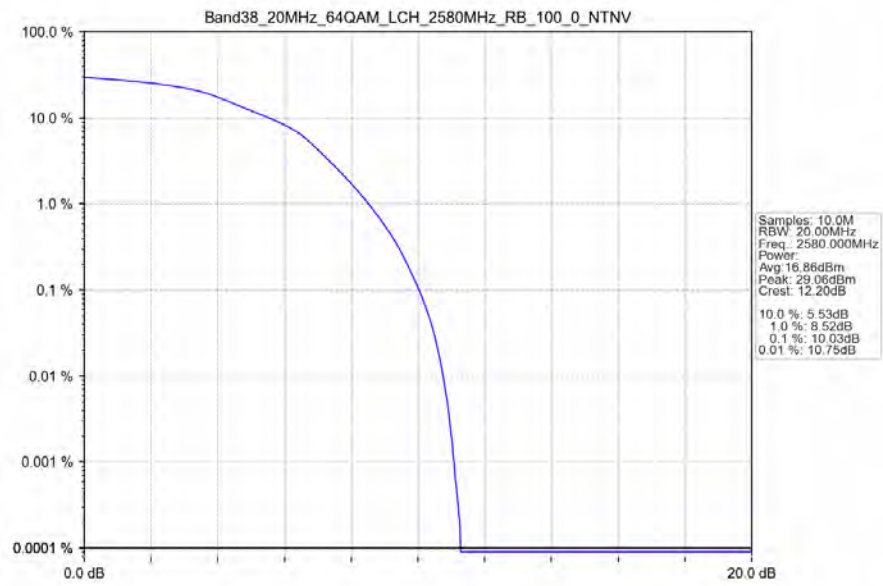
Band38_20MHz_16QAM_MCH_2595MHz_RB_100_0_NTNV



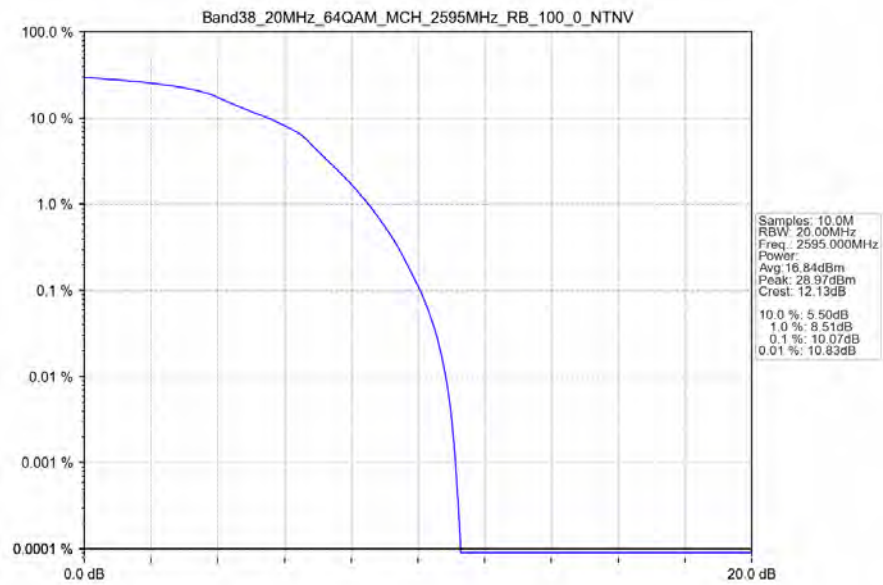
Band38_20MHz_16QAM_HCH_2610MHz_RB_100_0_NTNV



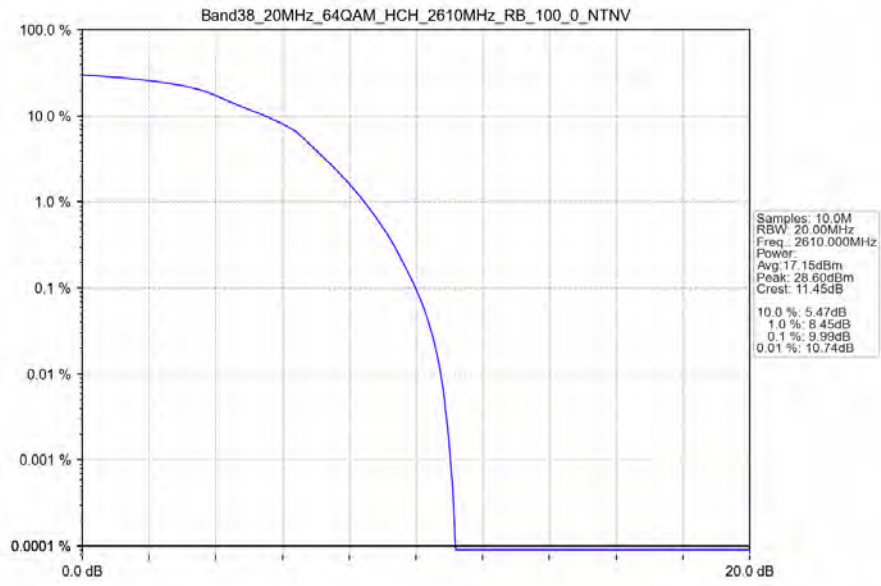
Band38_20MHz_64QAM_LCH_2580MHz_RB_100_0_NTNV



Band38_20MHz_64QAM_MCH_2595MHz_RB_100_0_NTNV



Band38_20MHz_64QAM_HCH_2610MHz_RB_100_0_NTNV



5. Spurious Emission & Band Edges

5.1 Test Result

5.1.1 B38_5MHz

Band: 38 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2572.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	2595	1	0	Refer To Test Graph		Pass
	2617.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass

5.1.2 B38_10MHz

Band: 38 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2575	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	2595	1	0	Refer To Test Graph		Pass
	2615	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass

5.1.3 B38_15MHz

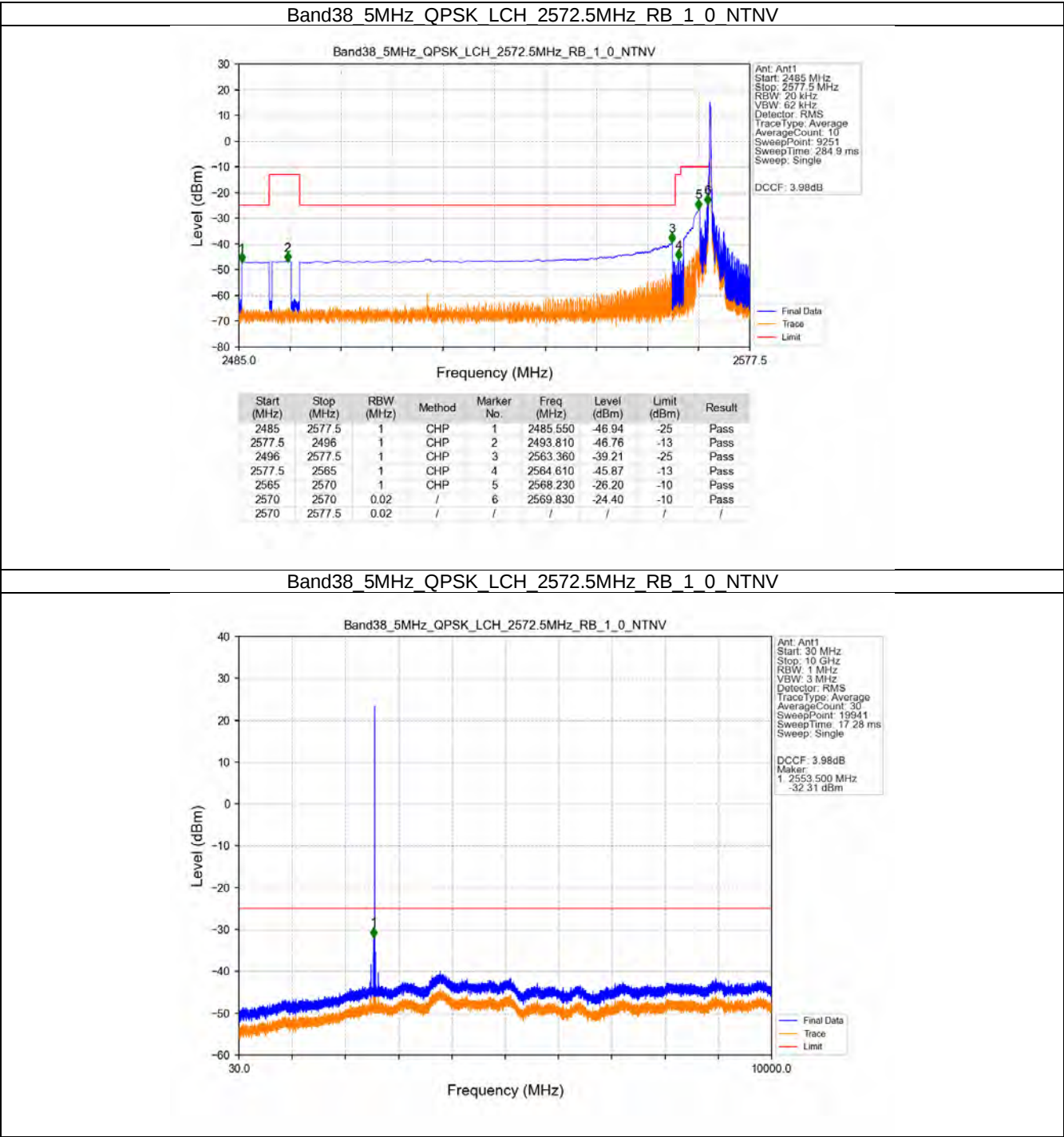
Band: 38 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2577.5	1	0	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
	2595	1	0	Refer To Test Graph		Pass
	2612.5	1	0	Refer To Test Graph		Pass
			74	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass

5.1.4 B38_20MHz

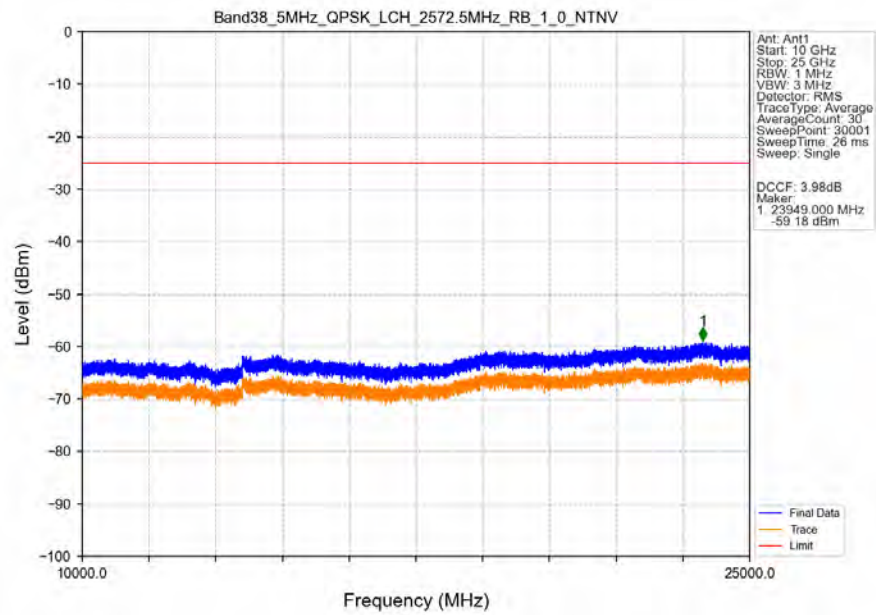
Band: 38 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2580	1	0	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
	2595	1	0	Refer To Test Graph		Pass
	2610	1	0	Refer To Test Graph		Pass
			99	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass

5.2 Test Graph

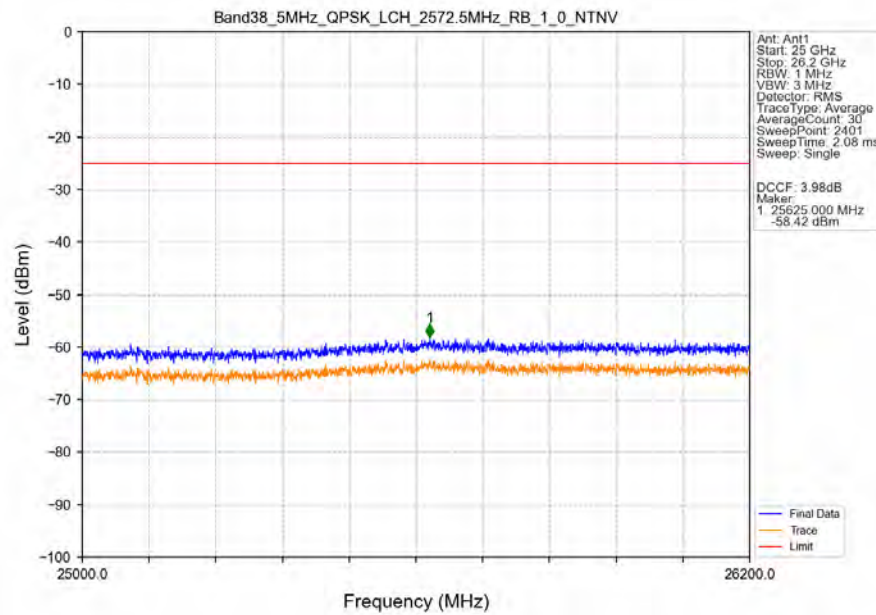
5.2.1 B38_5MHz



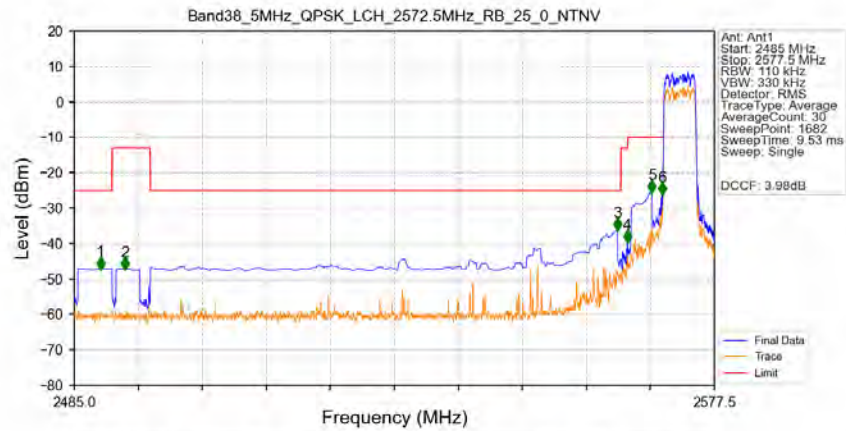
Band38_5MHz_QPSK_LCH_2572.5MHz_RB_1_0_NTNV



Band38_5MHz_QPSK_LCH_2572.5MHz_RB_1_0_NTNV

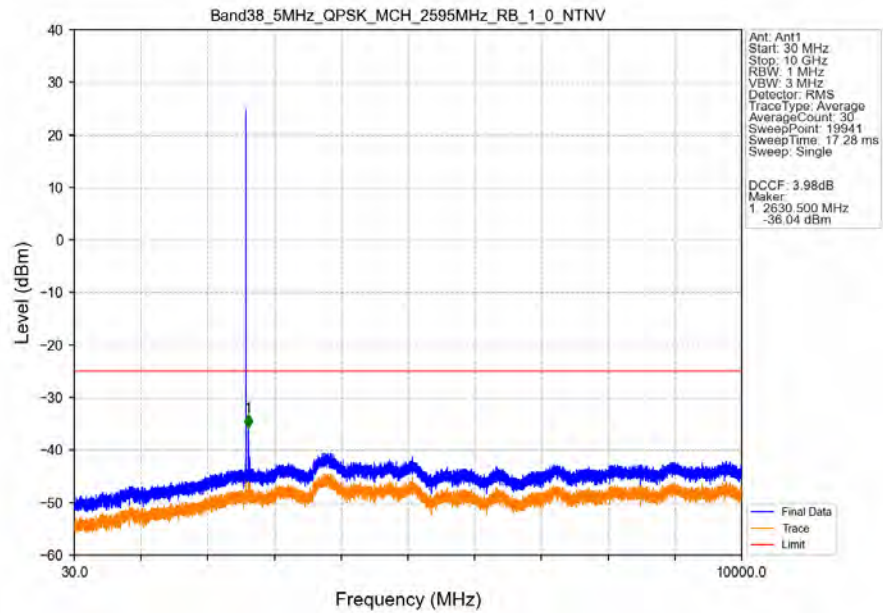


Band38_5MHz_QPSK_LCH_2572.5MHz_RB_25_0_NTNV

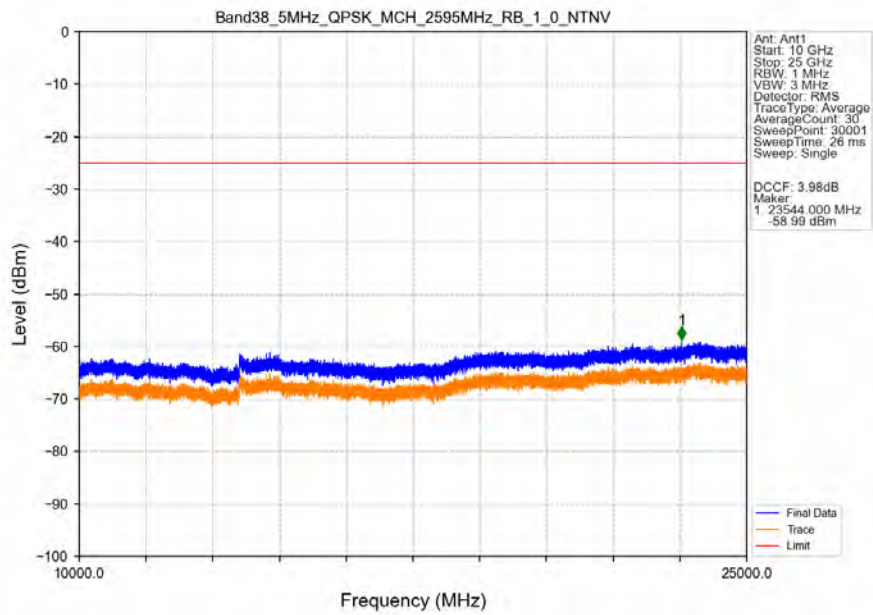


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2577.5	1	CHP	1	2488.797	-47.08	-25	Pass
2577.5	2496	1	CHP	2	2492.319	-47.17	-13	Pass
2496	2577.5	1	CHP	3	2563.468	-36.07	-25	Pass
2577.5	2565	1	CHP	4	2564.899	-39.58	-13	Pass
2565	2570	1	CHP	5	2568.476	-25.38	-10	Pass
2570	2570	0.11	/	6	2569.961	-26.11	-10	Pass
2570	2577.5	0.11	/	/	/	/	/	/

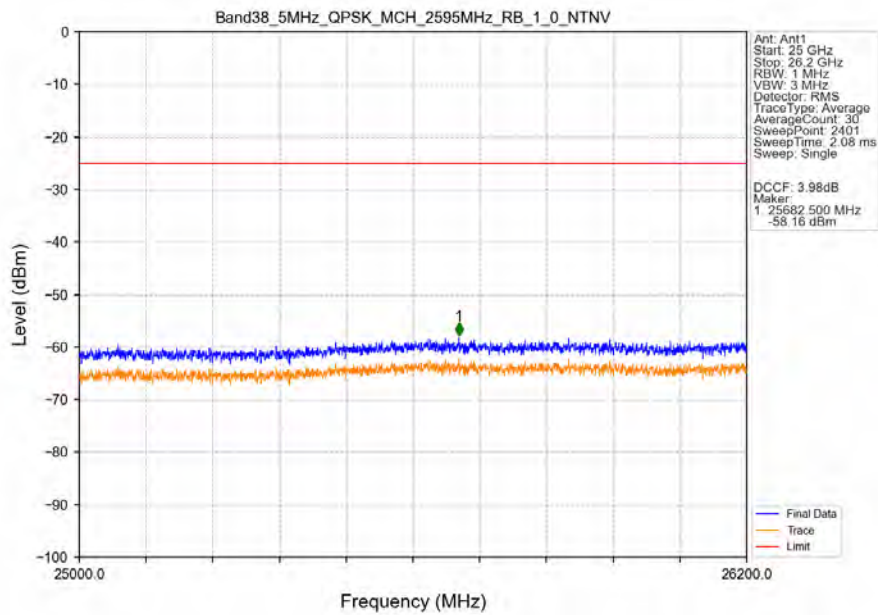
Band38_5MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV



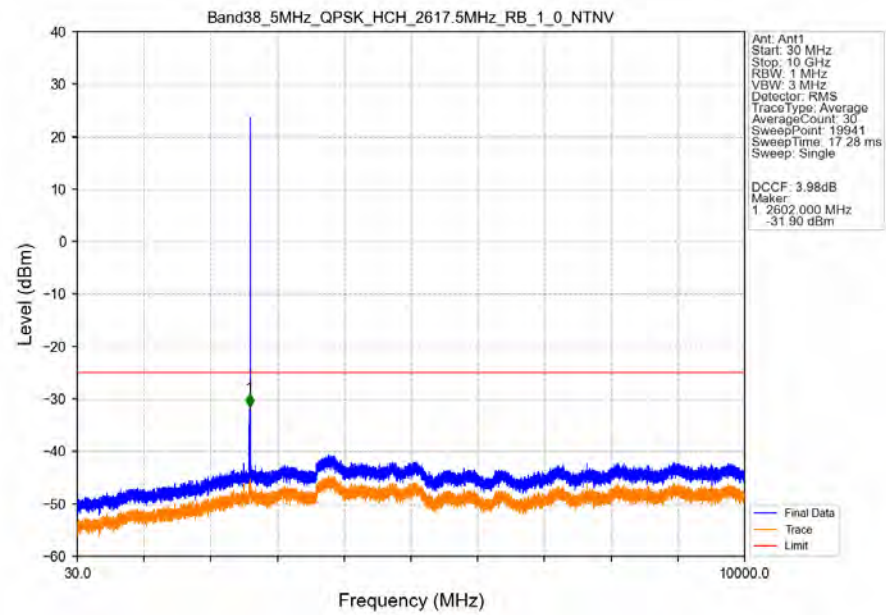
Band38_5MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV



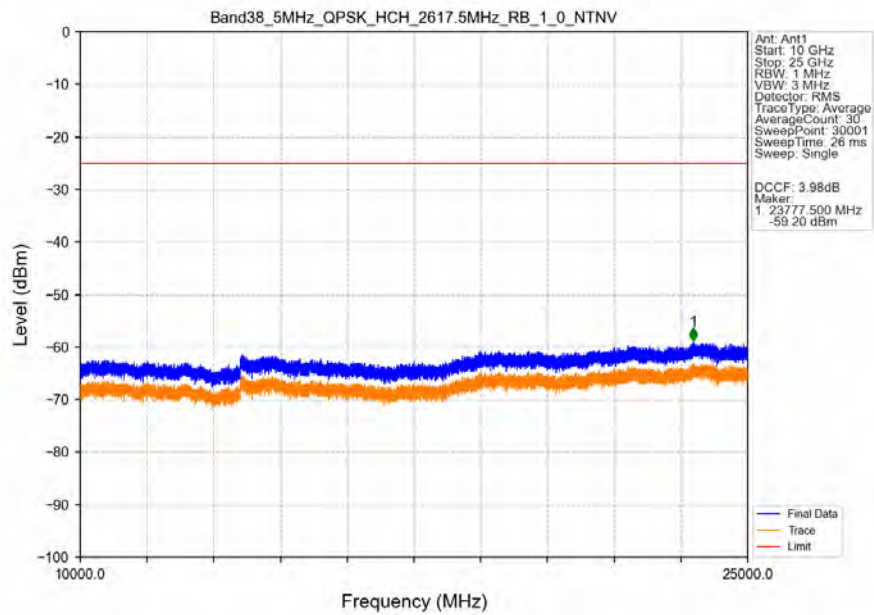
Band38_5MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV



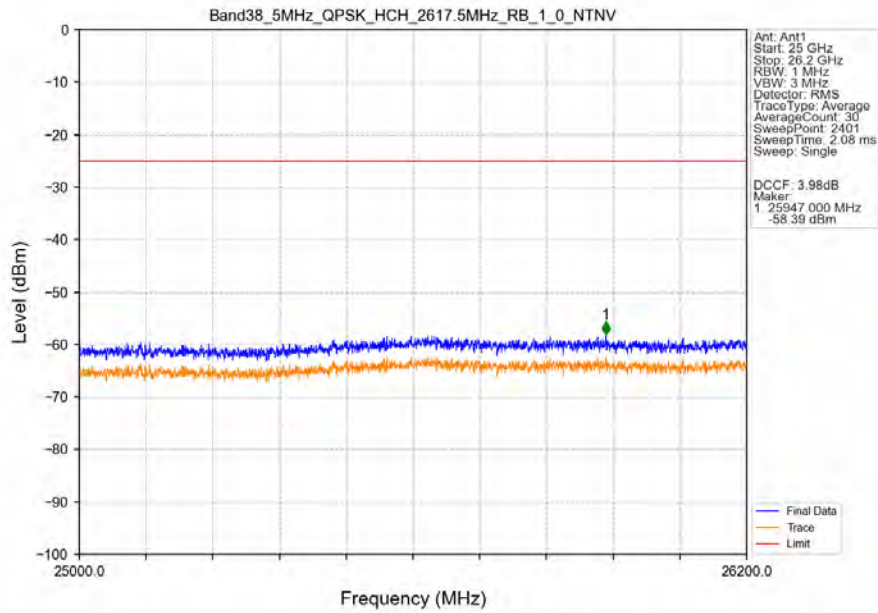
Band38_5MHz_QPSK_HCH_2617.5MHz_RB_1_0_NTNV



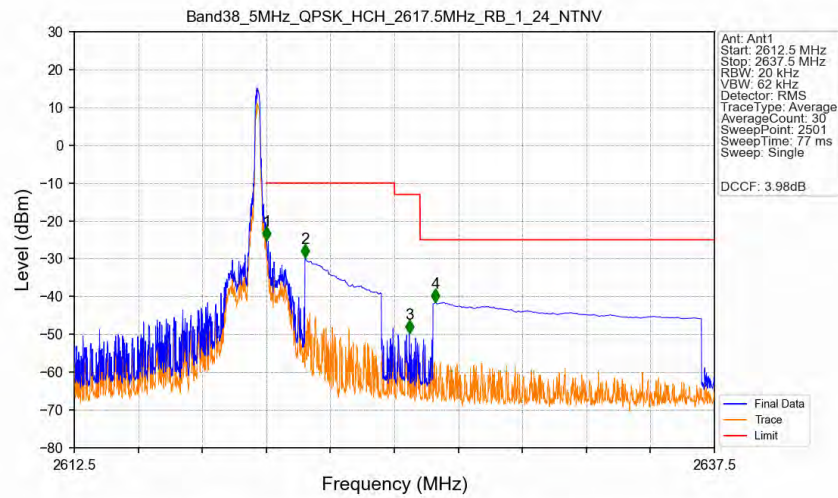
Band38_5MHz_QPSK_HCH_2617.5MHz_RB_1_0_NTNV



Band38_5MHz_QPSK_HCH_2617.5MHz_RB_1_0_NTNV

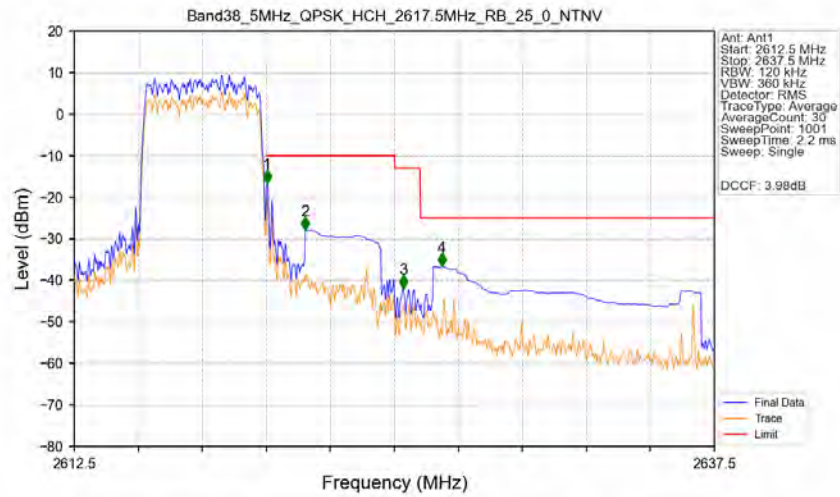


Band38_5MHz_QPSK_HCH_2617.5MHz_RB_1_24_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2612.5	2620	0.02	/	/	/	/	/	/
2620	2625	0.02	/	1	2620.010	-24.95	-10	Pass
2625	2625	1	CHP	2	2621.510	-29.62	-10	Pass
2625	2626	1	CHP	3	2625.580	-49.75	-13	Pass
2626	2637.5	1	CHP	4	2626.610	-41.56	-25	Pass

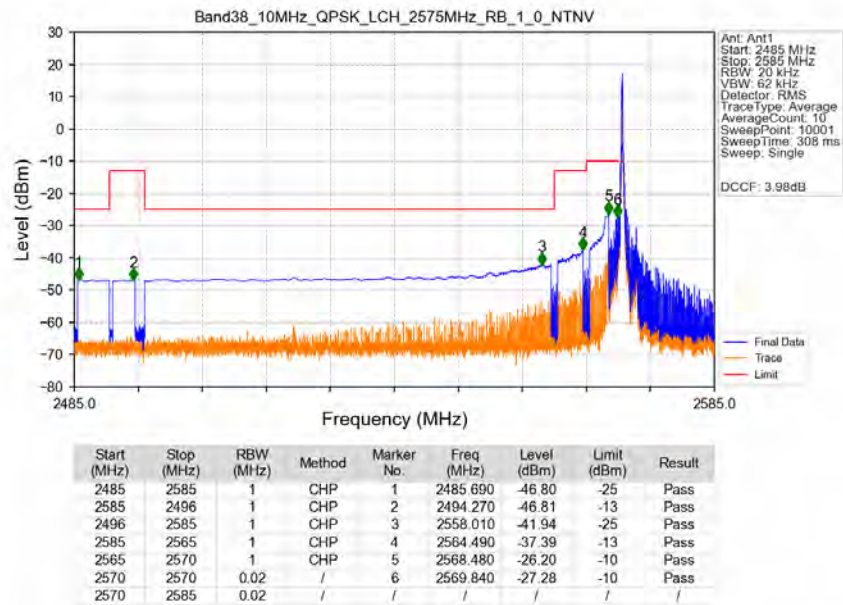
Band38_5MHz_QPSK_HCH_2617.5MHz_RB_25_0_NTNV



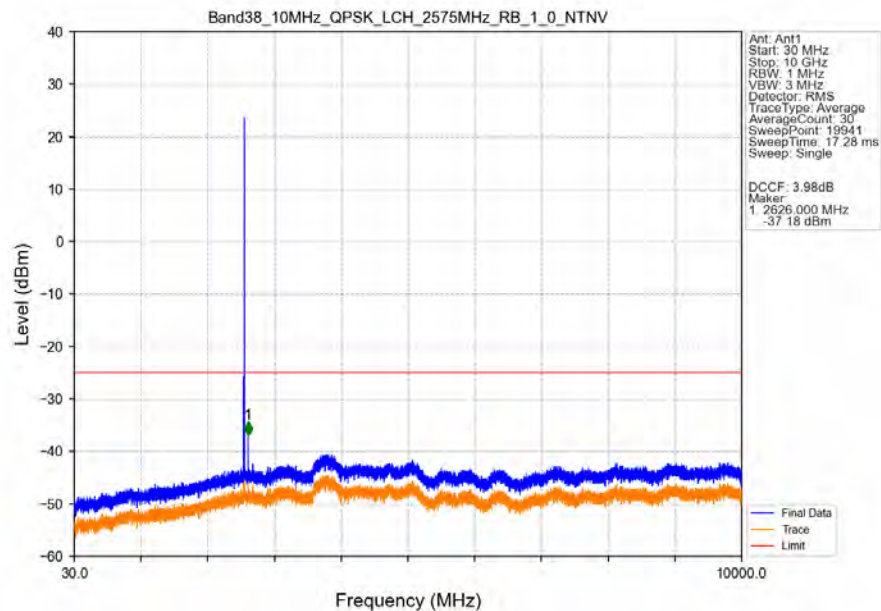
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2612.5	2620	0.12	/	/	/	/	/	/
2620	2625	0.12	/	1	2620.025	-16.64	-10	Pass
2625	2625	1	CHP	2	2621.525	-27.92	-10	Pass
2625	2626	1	CHP	3	2625.350	-41.88	-13	Pass
2626	2637.5	1	CHP	4	2626.850	-36.62	-25	Pass

5.2.2 B38_10MHz

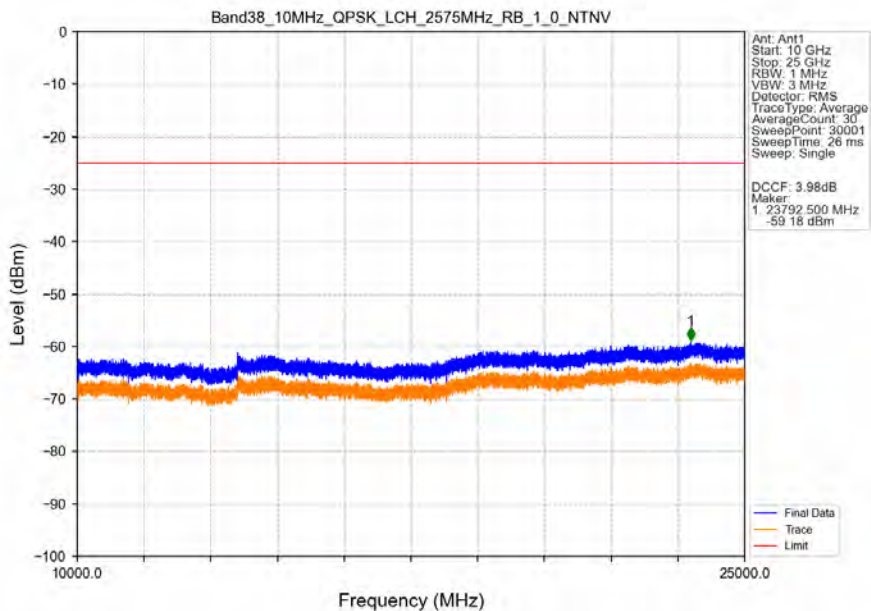
Band38 10MHz QPSK LCH 2575MHz RB 1 0 NTN



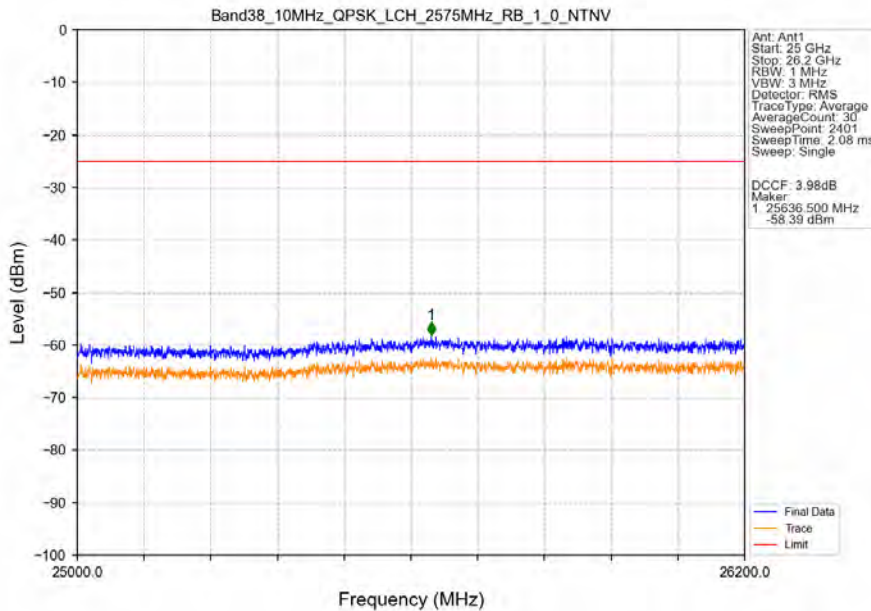
Band38 10MHz QPSK LCH 2575MHz RB 1 0 NTN



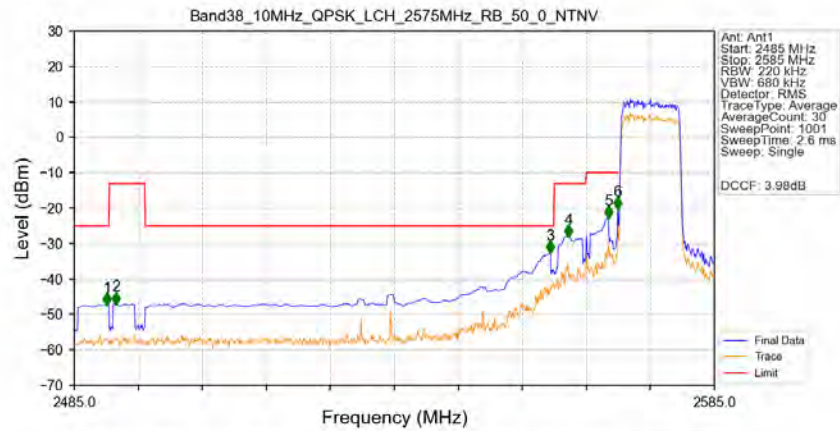
Band38_10MHz_QPSK_LCH_2575MHz_RB_1_0_NTNV



Band38_10MHz_QPSK_LCH_2575MHz_RB_1_0_NTNV

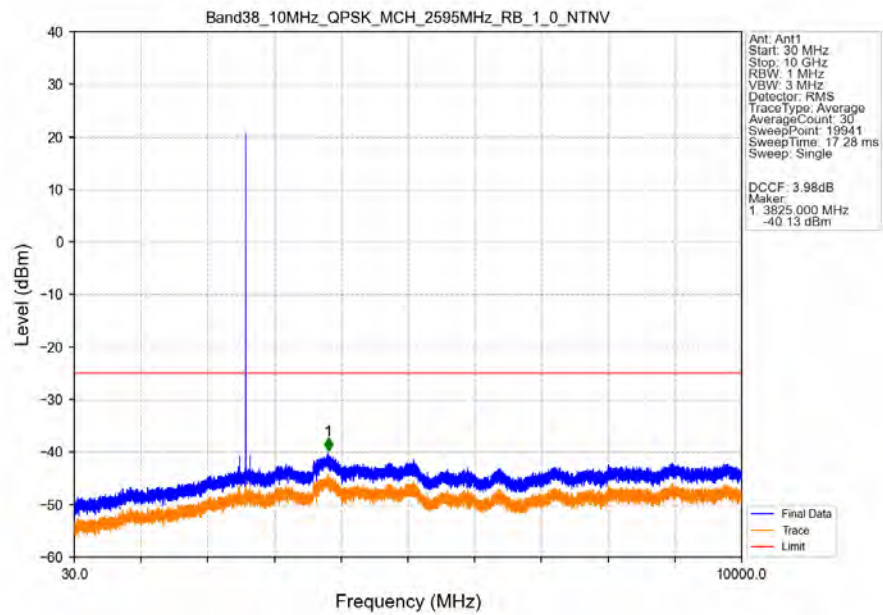


Band38_10MHz_QPSK_LCH_2575MHz_RB_50_0_NTNV

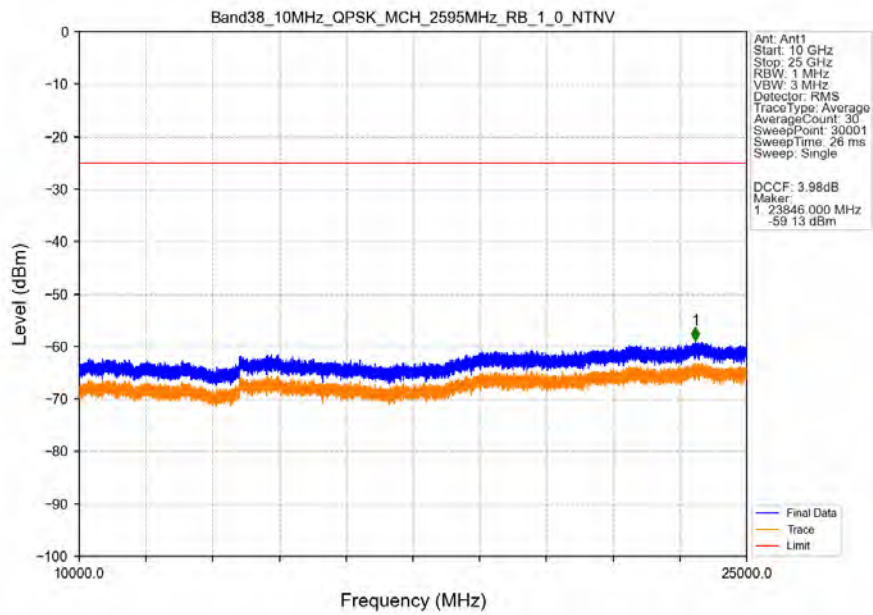


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2585	1	CHP	1	2490.100	-47.24	-25	Pass
2585	2496	1	CHP	2	2491.500	-46.96	-13	Pass
2496	2585	1	CHP	3	2559.400	-32.52	-25	Pass
2585	2585	1	CHP	4	2562.200	-27.97	-13	Pass
2565	2570	1	CHP	5	2568.400	-22.63	-10	Pass
2570	2570	0.22	/	6	2569.900	-20.13	-10	Pass
2570	2585	0.22	/	/	/	/	/	/

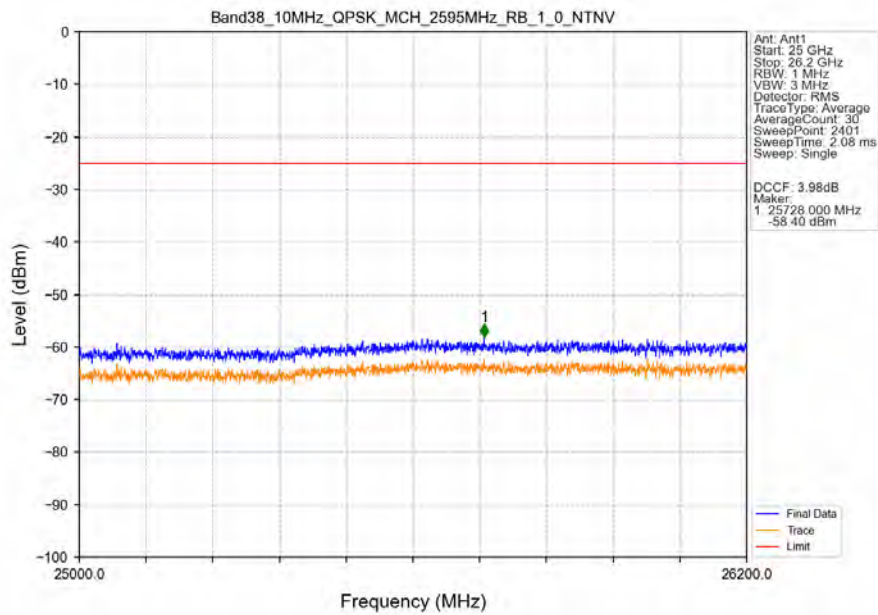
Band38_10MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV



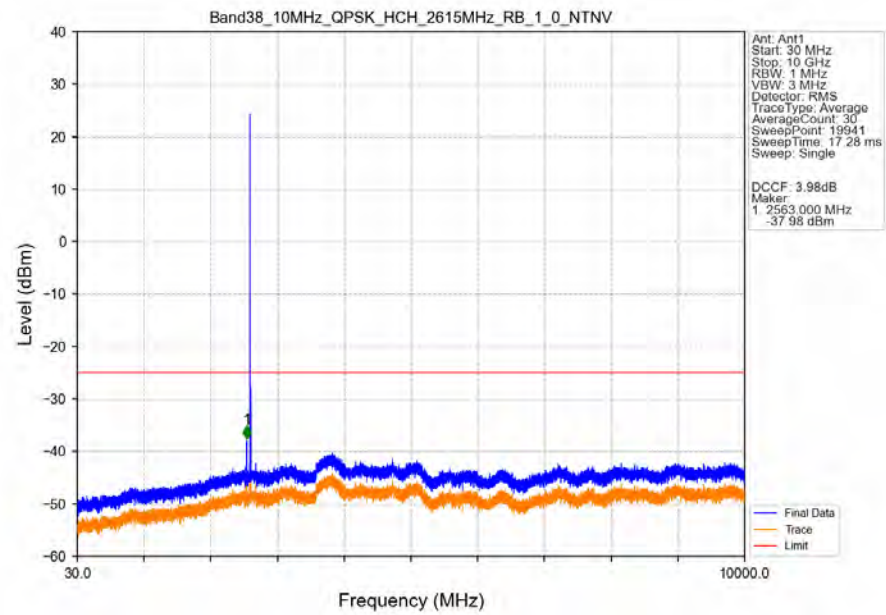
Band38_10MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV



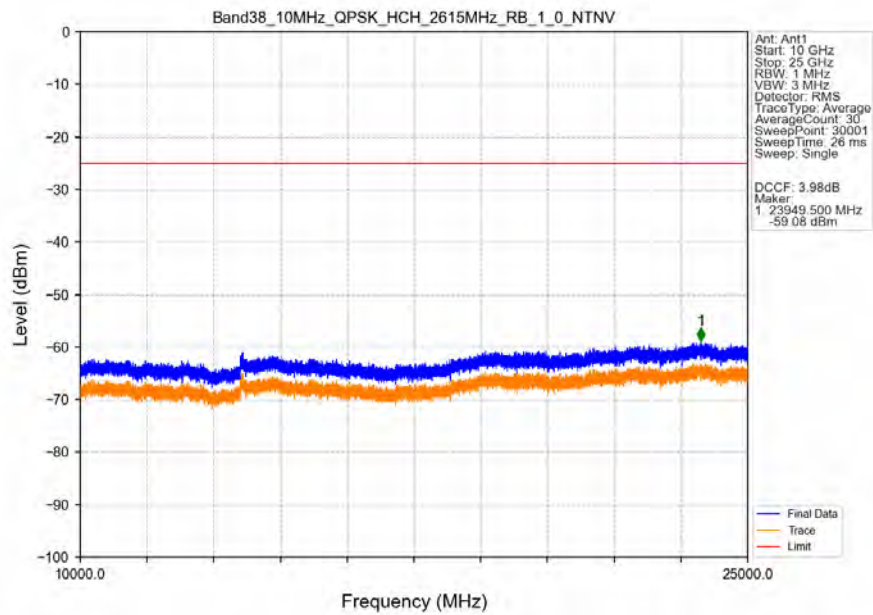
Band38_10MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV



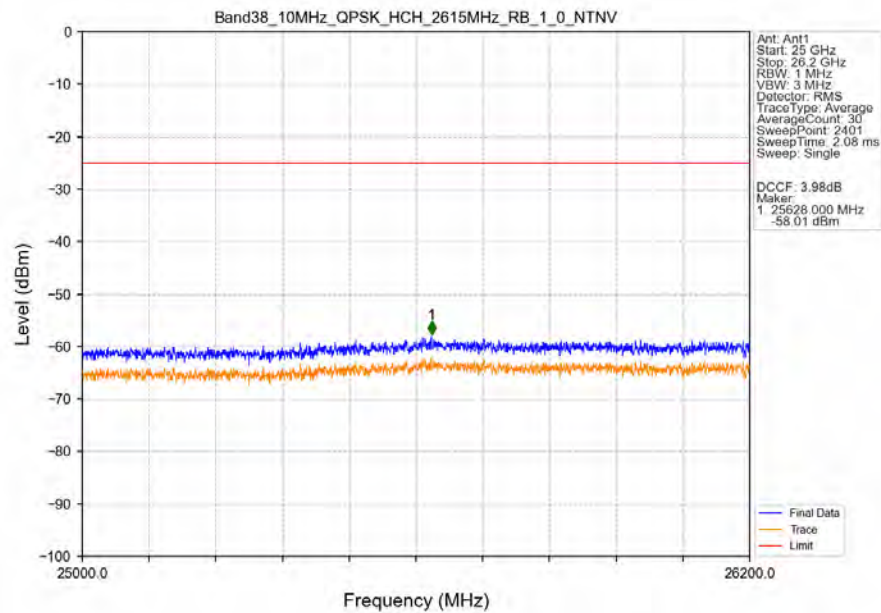
Band38_10MHz_QPSK_HCH_2615MHz_RB_1_0_NTNV



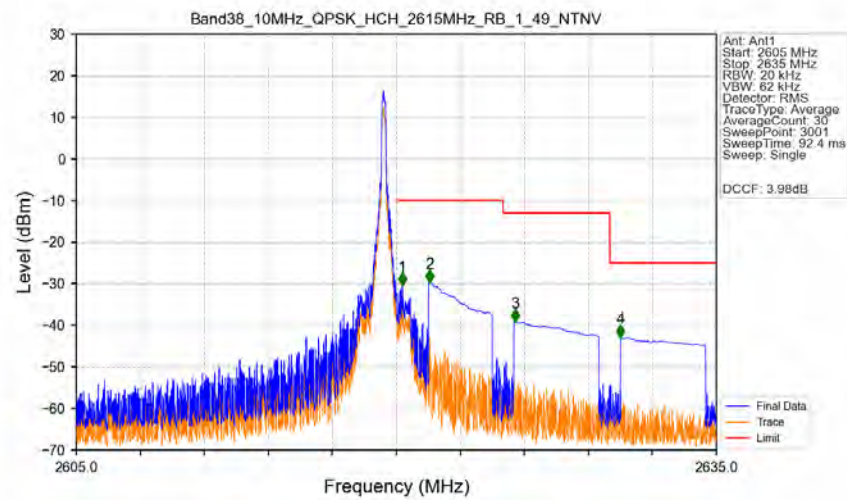
Band38_10MHz_QPSK_HCH_2615MHz_RB_1_0_NTNV



Band38_10MHz_QPSK_HCH_2615MHz_RB_1_0_NTNV

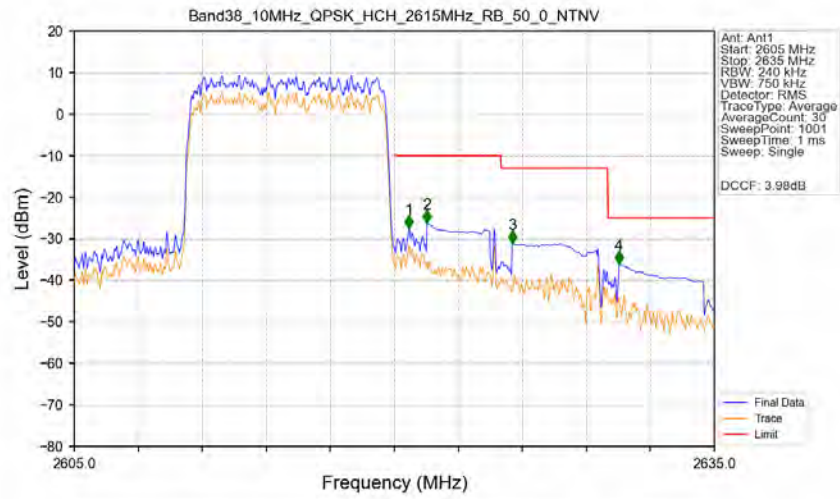


Band38_10MHz_QPSK_HCH_2615MHz_RB_1_49_NTNV



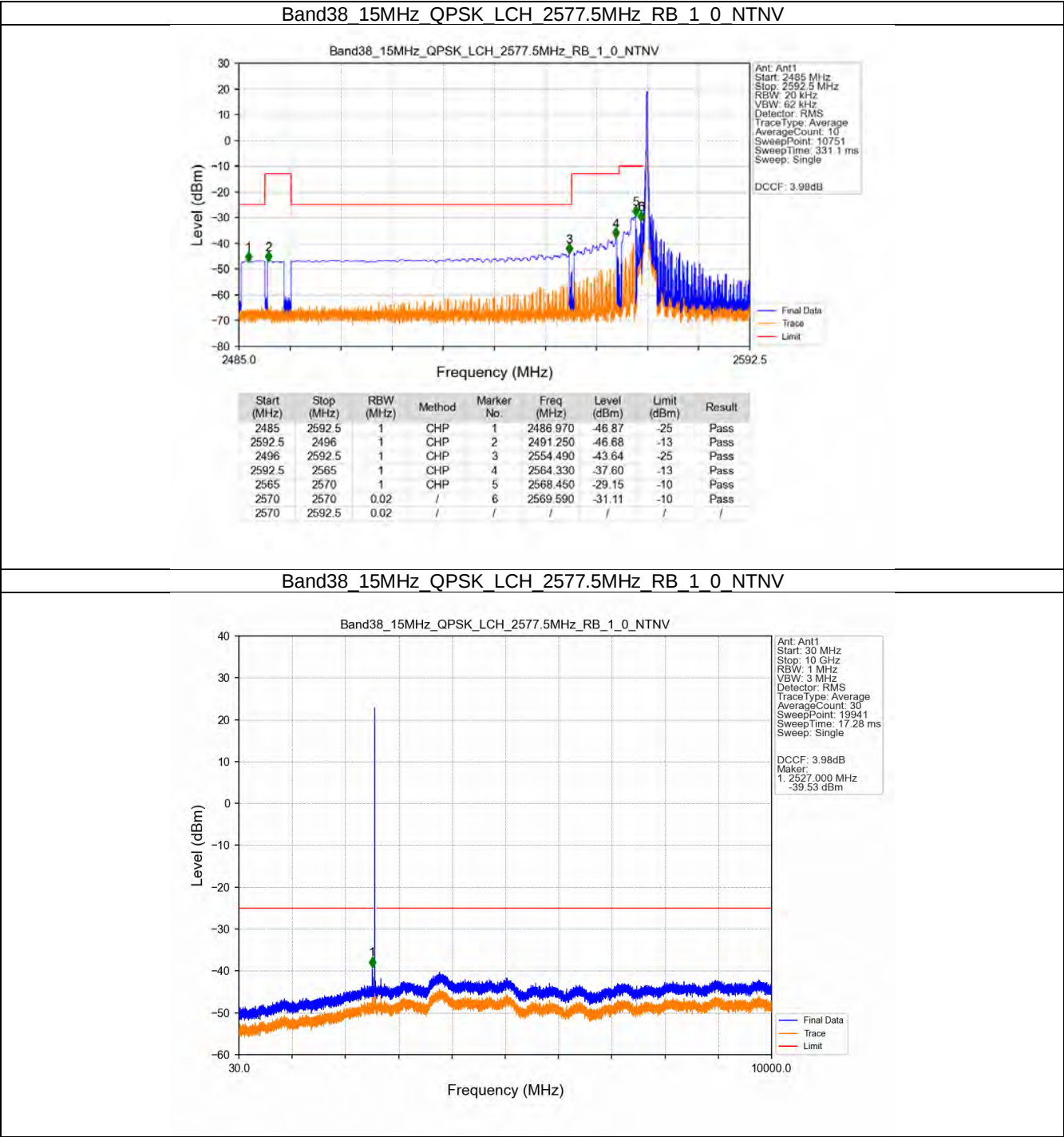
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2605	2620	0.02	/	/	/	/	/	/
2620	2625	0.02	/	1	2620.280	-30.43	-10	Pass
2625	2625	1	CHP	2	2621.570	-29.71	-10	Pass
2625	2630	1	CHP	3	2625.550	-39.15	-13	Pass
2630	2635	1	CHP	4	2630.510	-42.90	-25	Pass

Band38_10MHz_QPSK_HCH_2615MHz_RB_50_0_NTNV

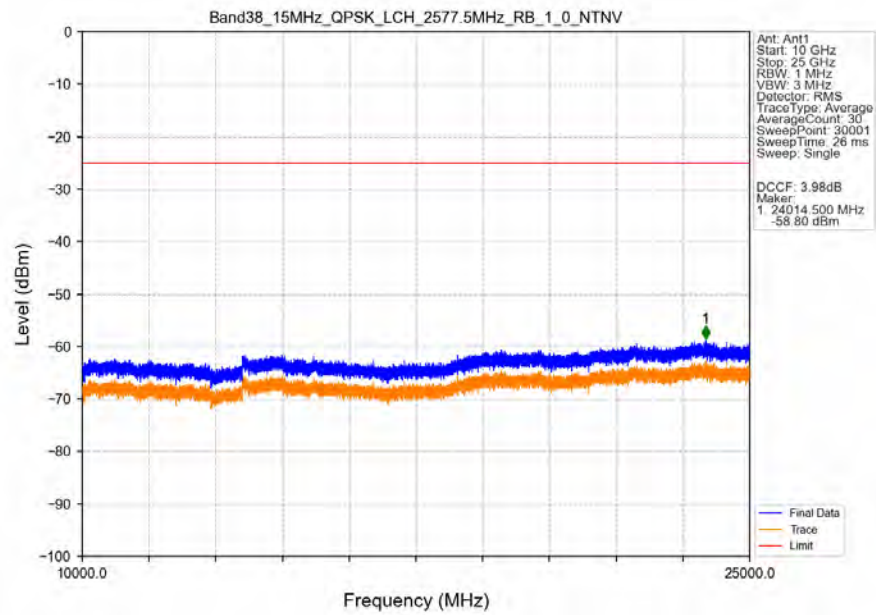


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2605	2620	0.24	/	/	/	/	/	/
2620	2625	0.24	/	1	2620.690	-27.51	-10	Pass
2625	2625	1	CHP	2	2621.530	-26.28	-10	Pass
2625	2630	1	CHP	3	2625.520	-31.15	-13	Pass
2630	2635	1	CHP	4	2630.530	-36.11	-25	Pass

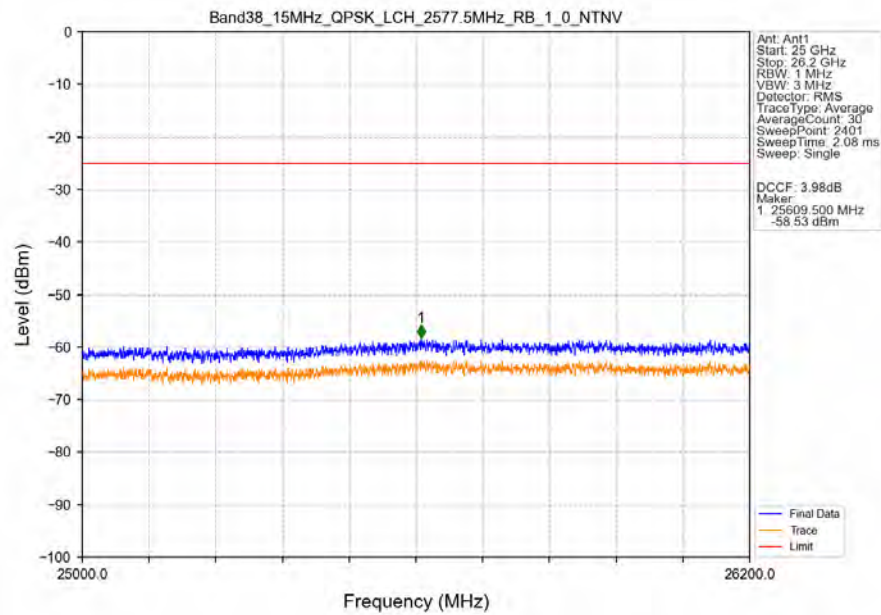
5.2.3 B38_15MHz



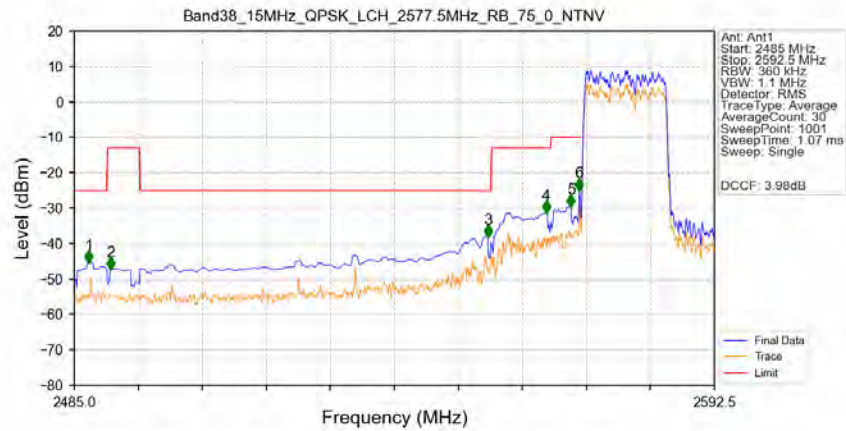
Band38_15MHz_QPSK_LCH_2577.5MHz_RB_1_0_NTNV



Band38_15MHz_QPSK_LCH_2577.5MHz_RB_1_0_NTNV

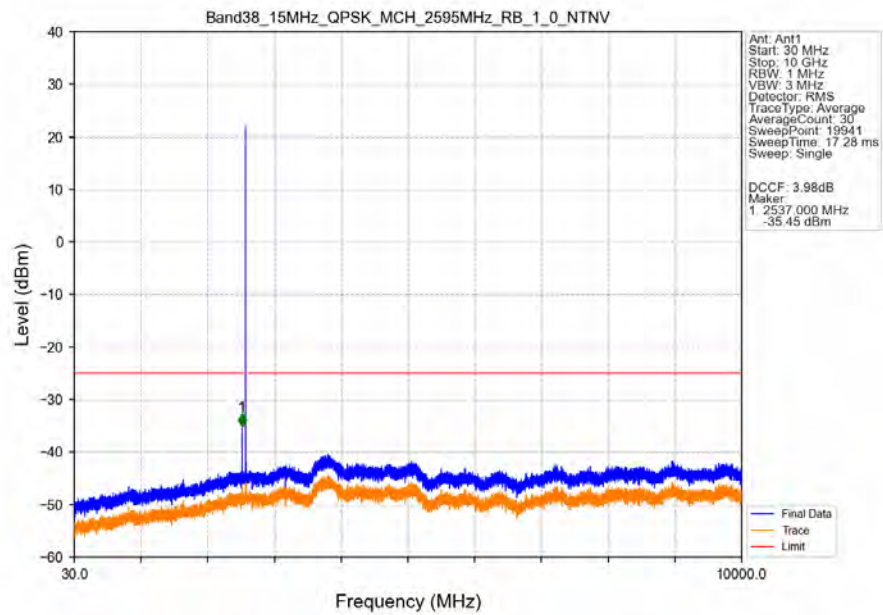


Band38 15MHz_QPSK_LCH_2577.5MHz_RB_75_0_NTNV

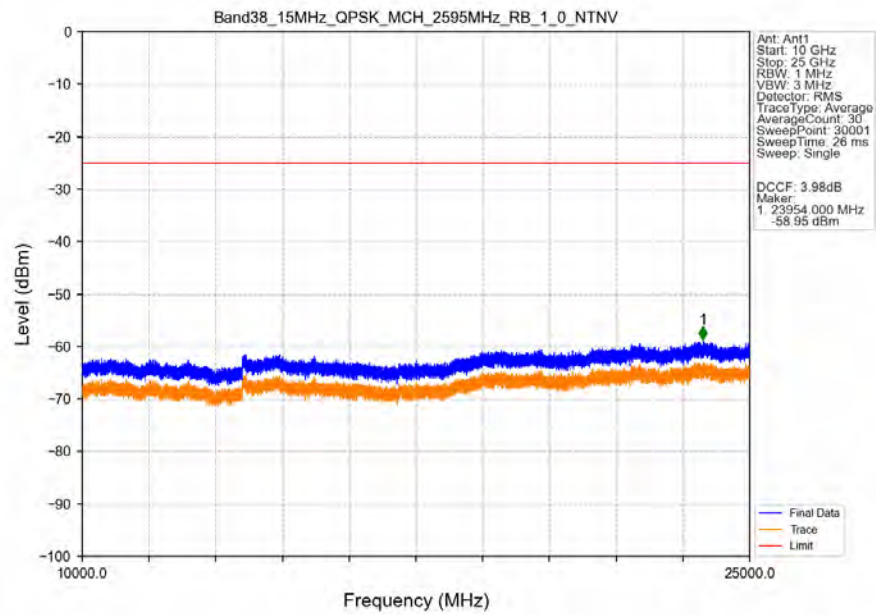


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2592.5	1	CHP	1	2487.472	-45.34	-25	Pass
2592.5	2496	1	CHP	2	2491.128	-47.16	-13	Pass
2496	2592.5	1	CHP	3	2554.445	-37.96	-25	Pass
2592.5	2565	1	CHP	4	2564.227	-31.21	-13	Pass
2565	2570	1	CHP	5	2568.420	-29.45	-10	Pass
2570	2570	0.36	/	6	2569.818	-24.91	-10	Pass
2570	2592.5	0.36	/	/	/	/	/	/

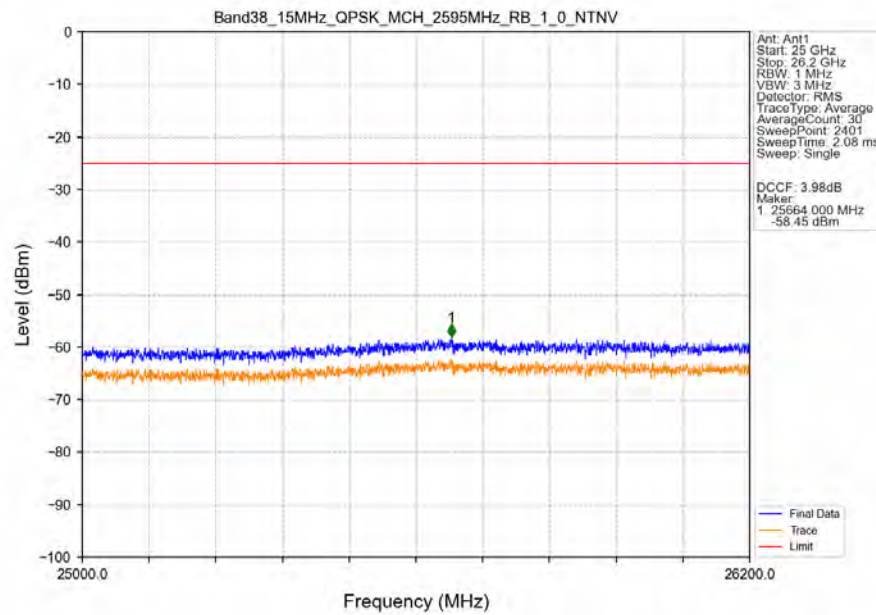
Band38 15MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV



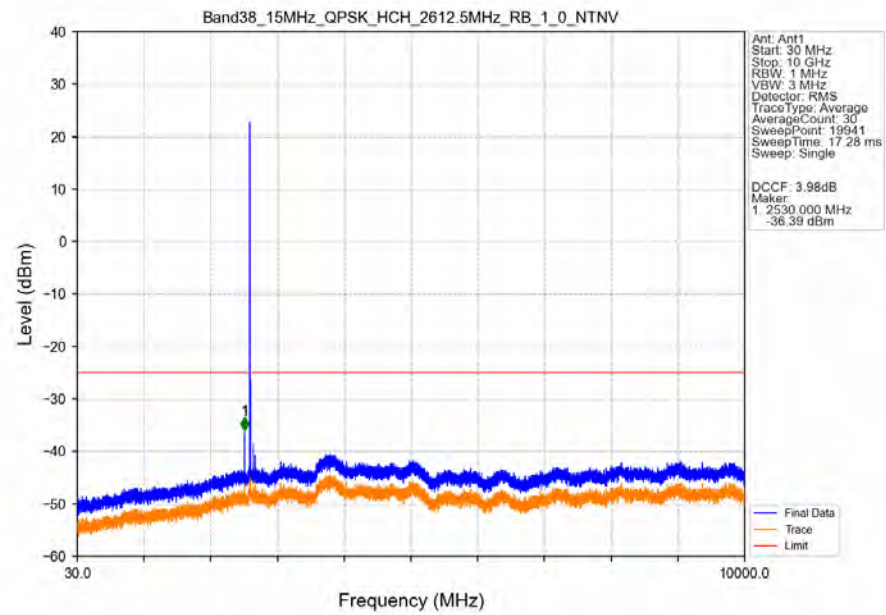
Band38_15MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV



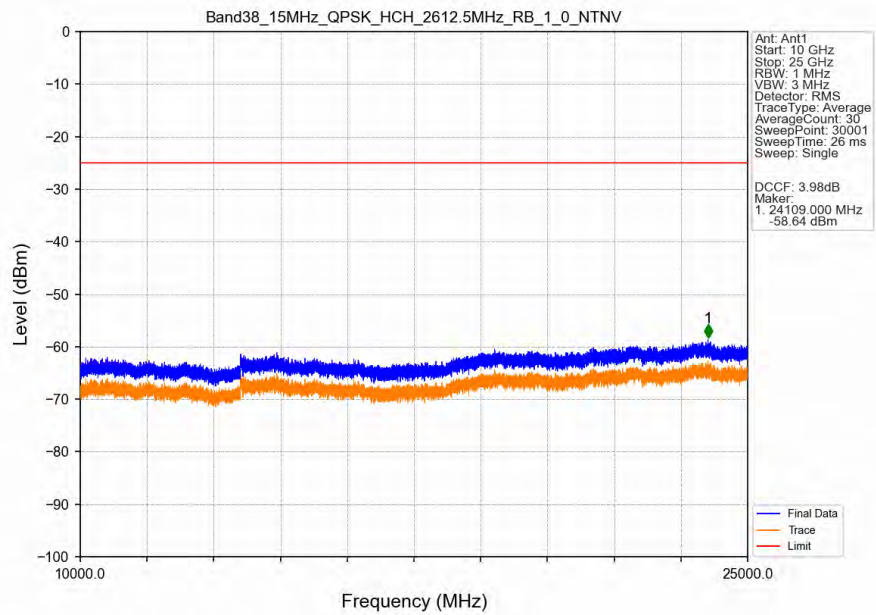
Band38_15MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV



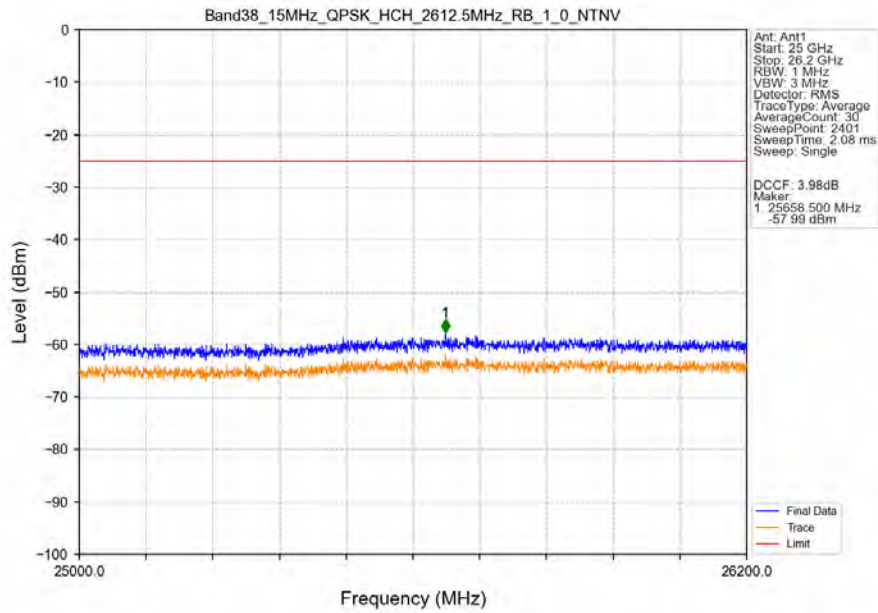
Band38_15MHz_QPSK_HCH_2612.5MHz_RB_1_0_NTNV



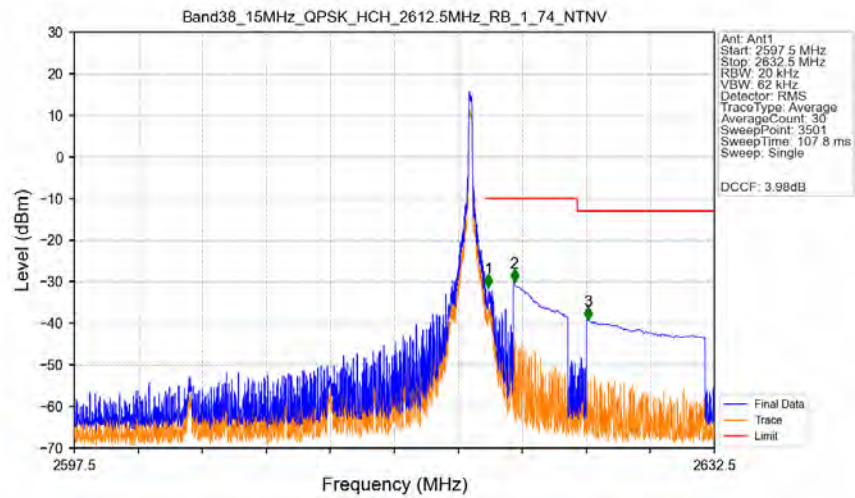
Band38_15MHz_QPSK_HCH_2612.5MHz_RB_1_0_NTNV



Band38_15MHz_QPSK_HCH_2612.5MHz_RB_1_0_NTNV

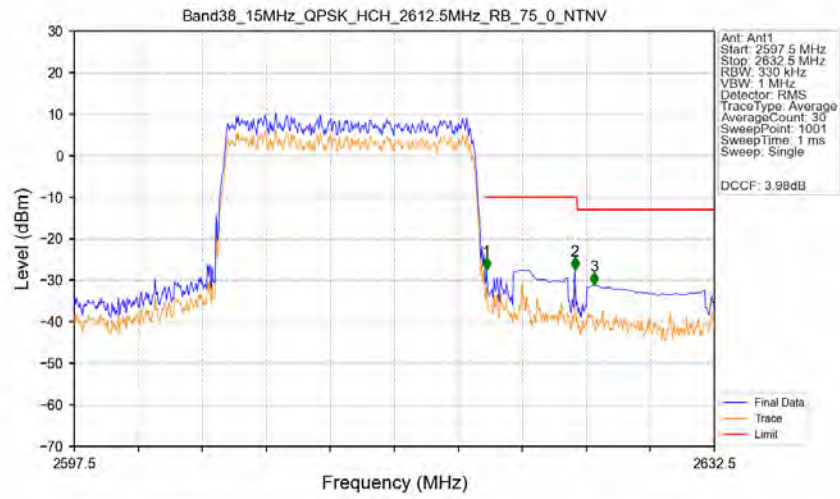


Band38_15MHz_QPSK_HCH_2612.5MHz_RB_1_74_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2597.5	2620	0.02	/	/	/	/	/	/
2620	2625	0.02	/	1	2620.150	-31.34	-10	Pass
2625	2625	1	CHP	2	2621.560	-30.12	-10	Pass
2625	2632.5	1	CHP	3	2625.590	-39.08	-13	Pass

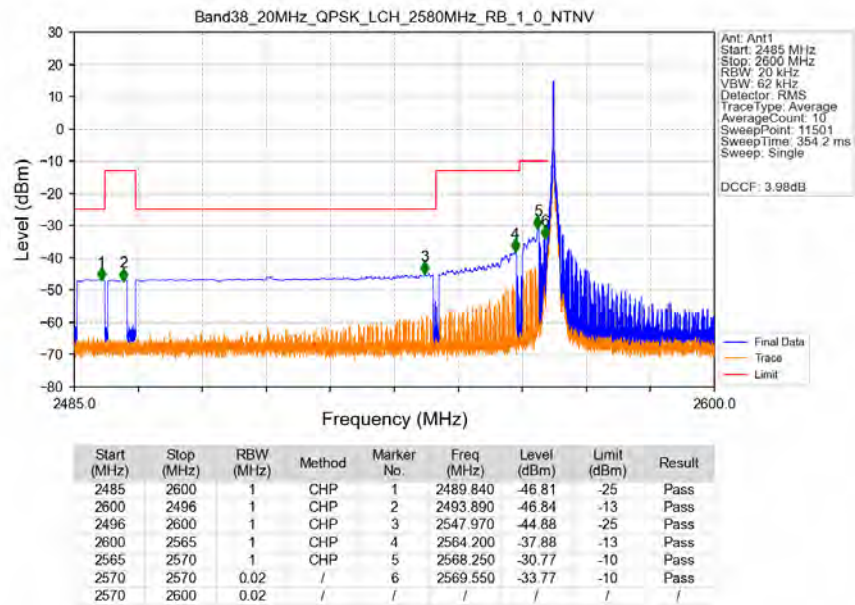
Band38_15MHz_QPSK_HCH_2612.5MHz_RB_75_0_NTNV



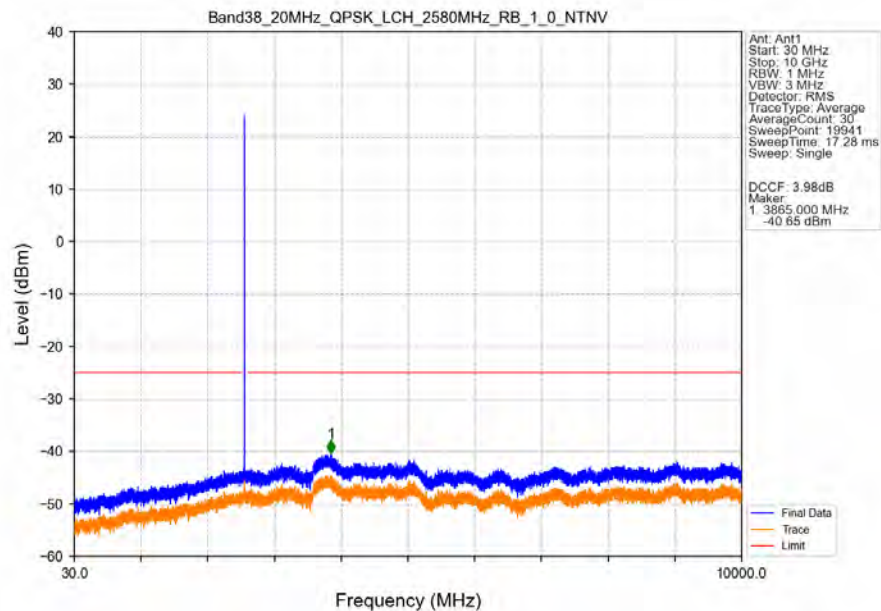
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2597.5	2620	0.33	/	/	/	/	/	/
2620	2625	0.33	/	1	2620.040	-27.59	-10	Pass
2625	2625	1	CHP	2	2624.870	-27.49	-10	Pass
2625	2632.5	1	CHP	3	2625.920	-31.10	-13	Pass

5.2.4 B38_20MHz

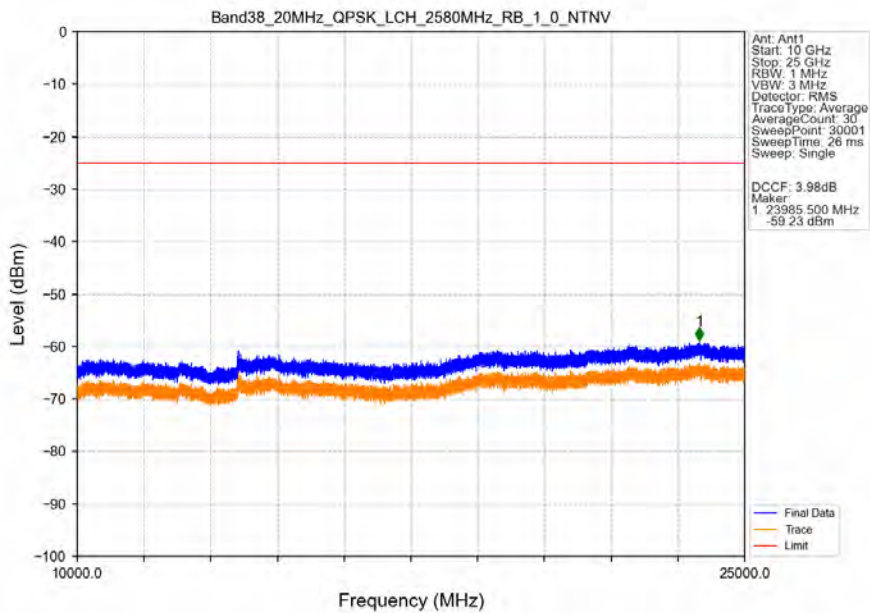
Band38 20MHz QPSK LCH 2580MHz RB 1 0 NTN



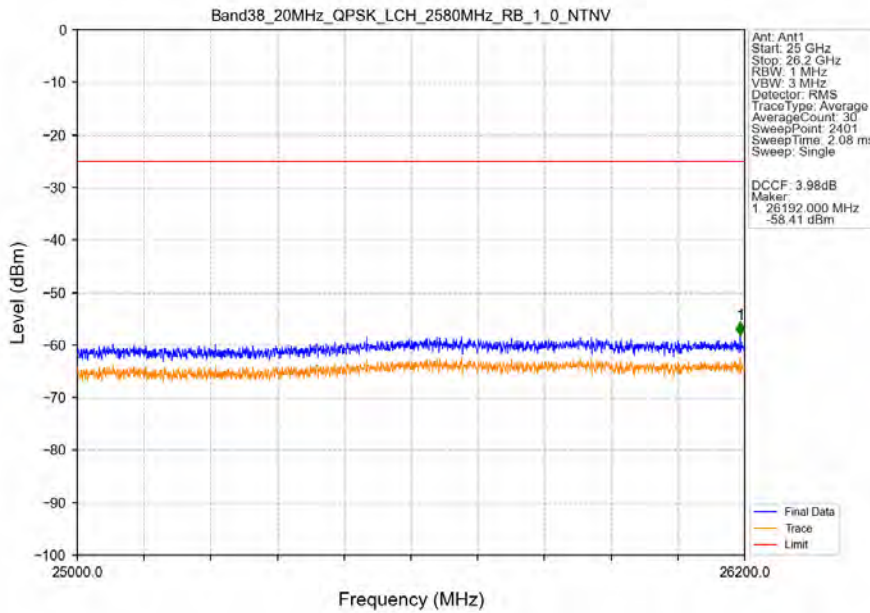
Band38 20MHz QPSK LCH 2580MHz RB 1 0 NTN



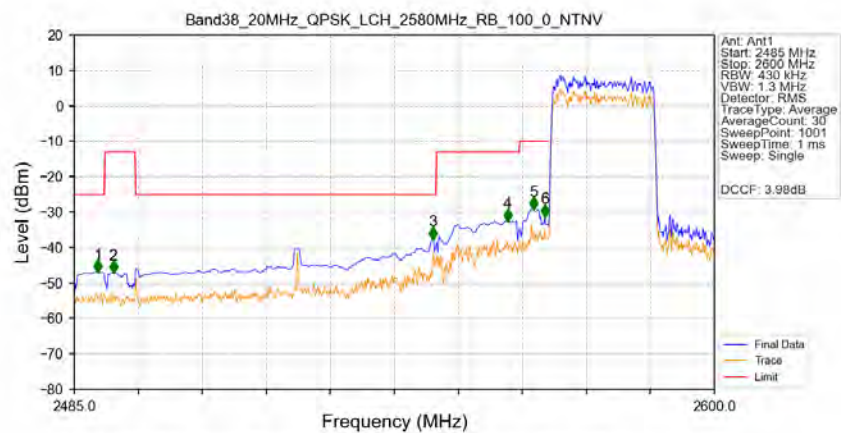
Band38_20MHz_QPSK_LCH_2580MHz_RB_1_0_NTNV



Band38_20MHz_QPSK_LCH_2580MHz_RB_1_0_NTNV

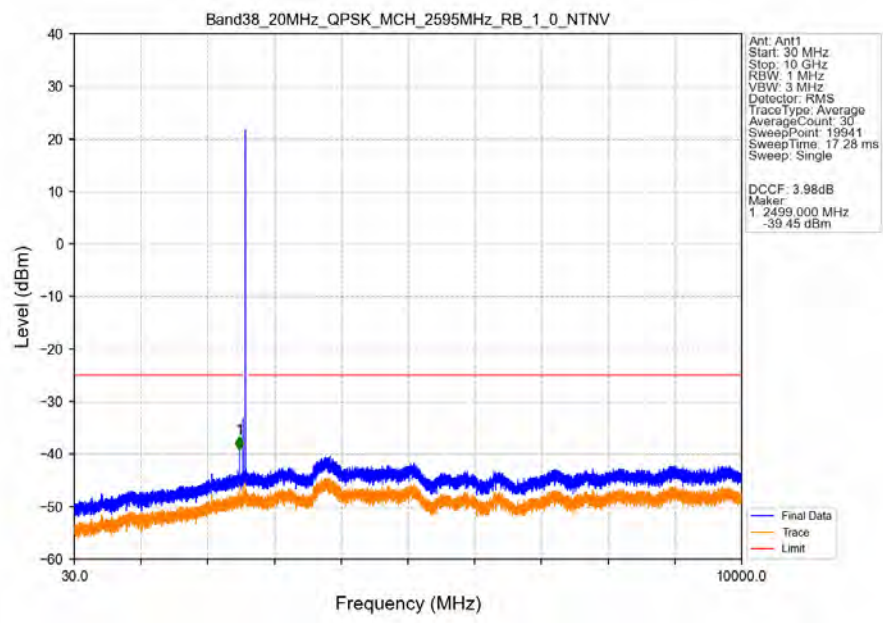


Band38_20MHz_QPSK_LCH_2580MHz_RB_100_0_NTNV

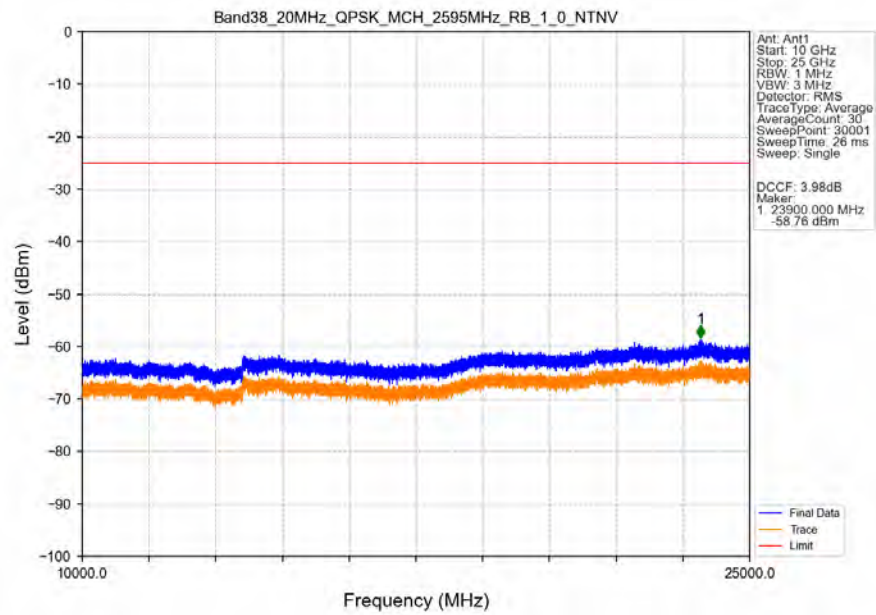


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2600	1	CHP	1	2489.255	-46.73	-25	Pass
2600	2496	1	CHP	2	2492.015	-47.03	-13	Pass
2496	2600	1	CHP	3	2549.400	-37.46	-25	Pass
2600	2565	1	CHP	4	2562.855	-32.37	-13	Pass
2565	2570	1	CHP	5	2567.455	-29.02	-10	Pass
2570	2570	0.43	/	6	2569.525	-31.06	-10	Pass
2570	2600	0.43	/	/	/	/	/	/

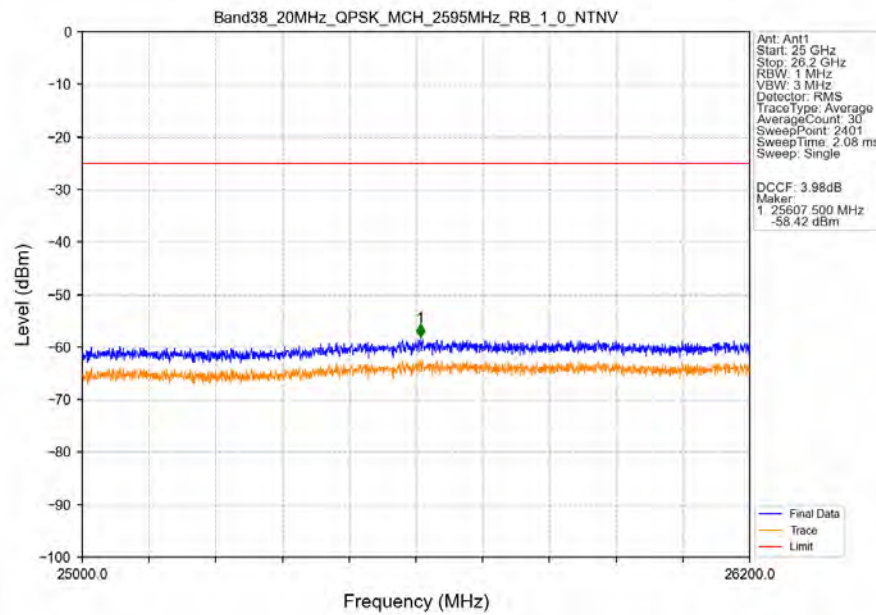
Band38_20MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV



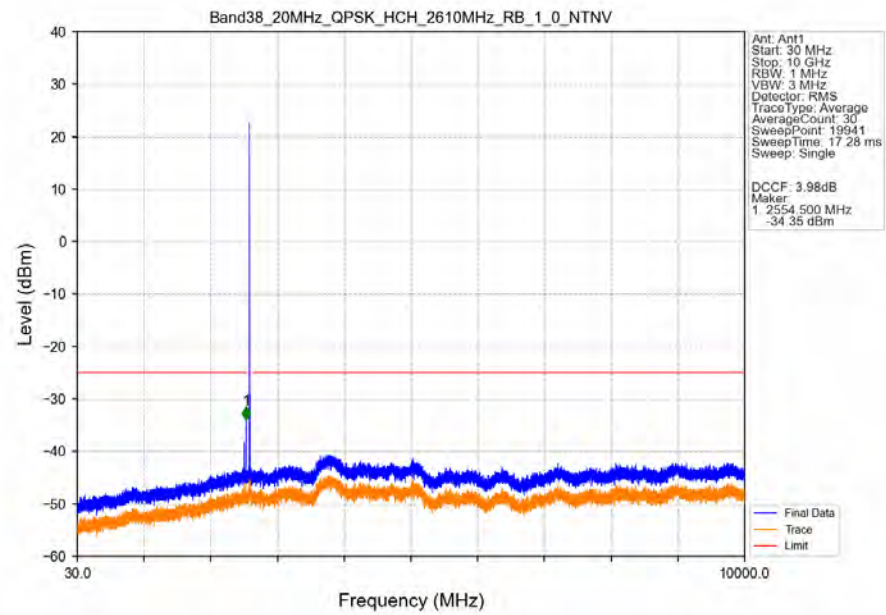
Band38_20MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV



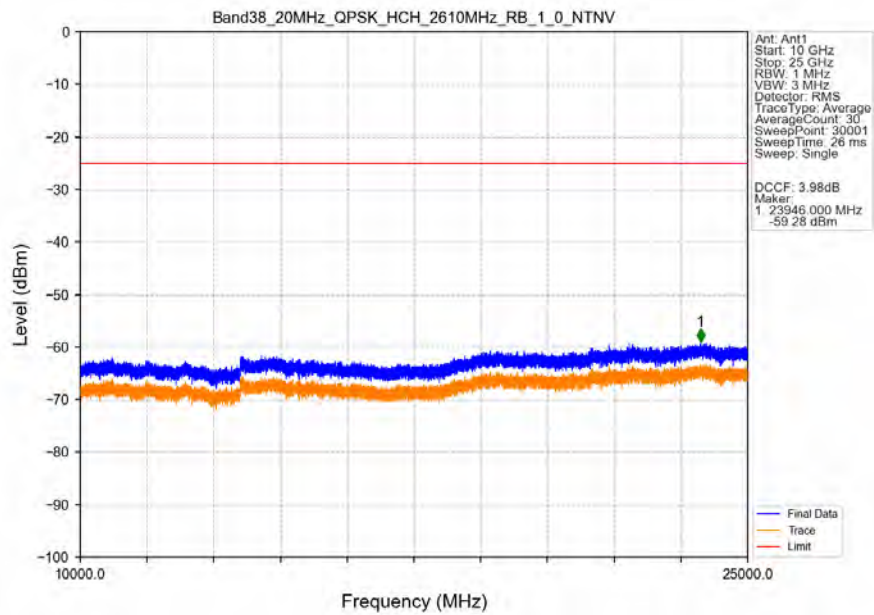
Band38_20MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV



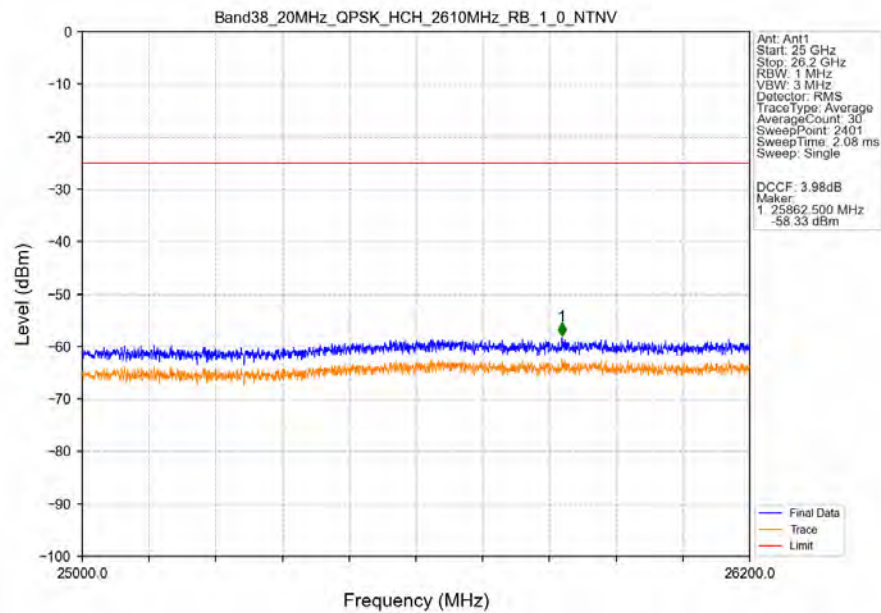
Band38_20MHz_QPSK_HCH_2610MHz_RB_1_0_NTNV



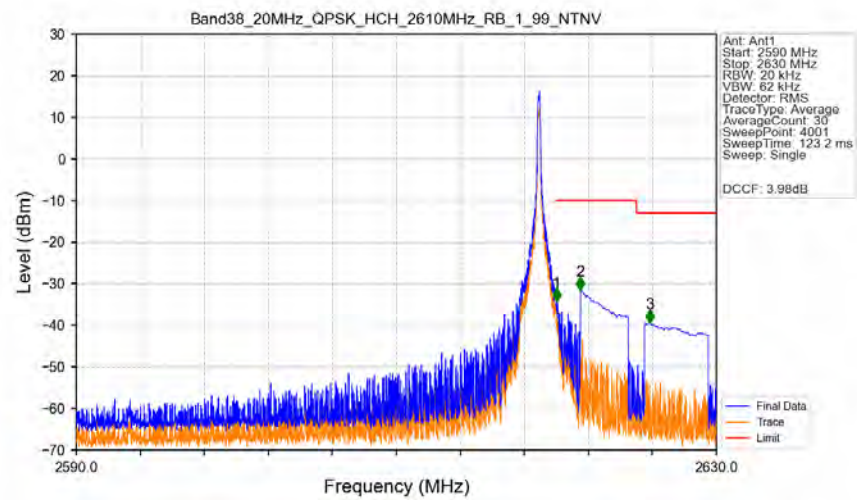
Band38_20MHz_QPSK_HCH_2610MHz_RB_1_0_NTNV



Band38_20MHz_QPSK_HCH_2610MHz_RB_1_0_NTNV

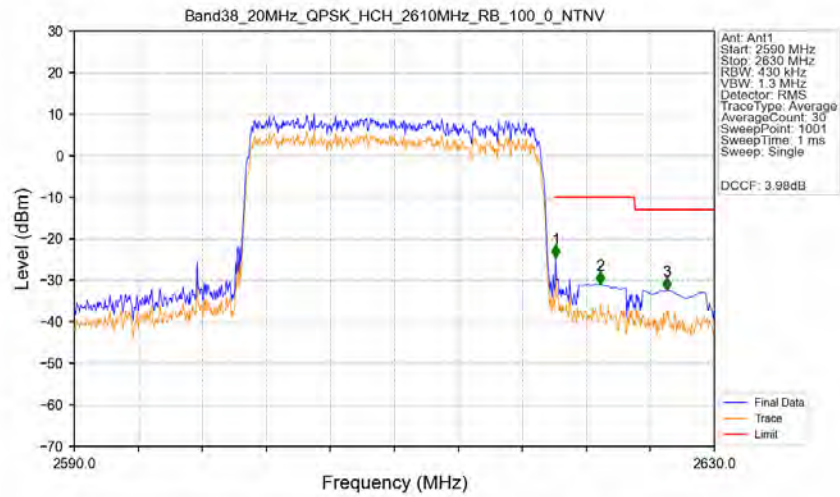


Band38_20MHz_QPSK_HCH_2610MHz_RB_1_99_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2590	2620	0.02	/	/	/	/	/	/
2620	2625	0.02	/	1	2620.010	-34.24	-10	Pass
2625	2625	1	CHP	2	2621.510	-31.55	-10	Pass
2625	2630	1	CHP	3	2625.860	-39.42	-13	Pass

Band38 20MHz QPSK HCH 2610MHz RB 100 0 NTV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2590	2620	0.43	/	/	/	/	/	/
2620	2625	0.43	/	1	2620.080	-24.57	-10	Pass
2625	2625	1	CHP	2	2622.880	-30.93	-10	Pass
2625	2630	1	CHP	3	2627.040	-32.38	-13	Pass

6. Field Strength of Spurious Radiation

LTE Band 38-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	-48.16	-25	-23.16	-54.14	4.25	10.23	Horizontal	Pass
7713.0	-52.08	-25	-27.08	-59.84	4.23	11.99	Horizontal	Pass
10284.0	-48.48	-25	-23.48	-56.48	5.08	13.08	Horizontal	Pass
5142.0	-44.2	-25	-19.2	-50.18	4.25	10.23	Vertical	Pass
7713.0	-51.87	-25	-26.87	-59.63	4.23	11.99	Vertical	Pass
10284.0	-38.27	-25	-13.27	-46.27	5.08	13.08	Vertical	Pass

LTE Band 38-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
5172.0	-48.99	-25	-23.99	-54.99	4.25	10.25	Horizontal	Pass
7758.0	-53.67	-25	-28.67	-61.48	4.23	12.04	Horizontal	Pass
10344.0	-47.29	-25	-22.29	-55.3	5.08	13.09	Horizontal	Pass
5172.0	-44.81	-25	-19.81	-50.81	4.25	10.25	Vertical	Pass
7758.0	-53.86	-25	-28.86	-61.67	4.23	12.04	Vertical	Pass
10344.0	-36.6	-25	-11.6	-44.61	5.08	13.09	Vertical	Pass

LTE Band 38-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
5202.0	-47.99	-25	-22.99	-54.01	4.25	10.27	Horizontal	Pass
7803.0	-53.64	-25	-28.64	-61.51	4.23	12.1	Horizontal	Pass
10404.0	-42.57	-25	-17.57	-50.59	5.08	13.1	Horizontal	Pass
5202.0	-45.02	-25	-20.02	-51.04	4.25			