

Appendix K for KSCR221000185708AT-LTE Band 38

1. Effective (Isotropic) Radiated Power Output Data

1.1 B38\_5MHz\_EIRP

1.1.1 Test Result

Band: 38 / Bandwidth: 5MHz / NTN									
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dbi)	EIRP (dBm)		Verdict	
		Size	Offset			Result	Limit		
QPSK	2572.5	1	0	22.51	0.50	23.01	<=33.01	Pass	
			13	22.64	0.50	23.14	<=33.01	Pass	
			24	22.51	0.50	23.01	<=33.01	Pass	
		12	0	21.69	0.50	22.19	<=33.01	Pass	
			6	21.76	0.50	22.26	<=33.01	Pass	
			13	21.67	0.50	22.17	<=33.01	Pass	
		25	0	21.66	0.50	22.16	<=33.01	Pass	
			13	22.34	0.50	22.84	<=33.01	Pass	
			24	22.46	0.50	22.96	<=33.01	Pass	
	2595	1	0	21.38	0.50	21.88	<=33.01	Pass	
			6	21.49	0.50	21.99	<=33.01	Pass	
			13	21.39	0.50	21.89	<=33.01	Pass	
		12	0	21.37	0.50	21.87	<=33.01	Pass	
			6	22.00	0.50	22.50	<=33.01	Pass	
			13	22.15	0.50	22.65	<=33.01	Pass	
		25	0	21.91	0.50	22.41	<=33.01	Pass	
			6	21.17	0.50	21.67	<=33.01	Pass	
			13	21.12	0.50	21.62	<=33.01	Pass	
	2617.5	1	0	21.08	0.50	21.58	<=33.01	Pass	
			6	21.08	0.50	21.58	<=33.01	Pass	
			13	21.15	0.50	21.65	<=33.01	Pass	
		12	0	21.15	0.50	21.65	<=33.01	Pass	
			6	21.15	0.50	21.65	<=33.01	Pass	
			13	21.15	0.50	21.65	<=33.01	Pass	
16QAM		2572.5	1	0	21.64	0.50	22.14	<=33.01	Pass
				13	21.71	0.50	22.21	<=33.01	Pass
				24	21.52	0.50	22.02	<=33.01	Pass
	12		0	20.64	0.50	21.14	<=33.01	Pass	
			6	20.74	0.50	21.24	<=33.01	Pass	
			13	20.58	0.50	21.08	<=33.01	Pass	
	2595	1	0	20.66	0.50	21.16	<=33.01	Pass	
			13	21.29	0.50	21.79	<=33.01	Pass	
			24	21.46	0.50	21.96	<=33.01	Pass	
		12	0	21.31	0.50	21.81	<=33.01	Pass	
			6	20.35	0.50	20.85	<=33.01	Pass	
			13	20.35	0.50	20.85	<=33.01	Pass	
2617.5	1	0	20.29	0.50	20.79	<=33.01	Pass		
		6	20.29	0.50	20.79	<=33.01	Pass		
		13	20.38	0.50	20.88	<=33.01	Pass		
	12	0	20.38	0.50	20.88	<=33.01	Pass		
		6	21.24	0.50	21.74	<=33.01	Pass		
		13	21.30	0.50	21.80	<=33.01	Pass		
16QAM	1	0	21.16	0.50	21.66	<=33.01	Pass		
		6	21.16	0.50	21.66	<=33.01	Pass		
		13	20.14	0.50	20.64	<=33.01	Pass		
	12	0	20.14	0.50	20.64	<=33.01	Pass		
		6	20.19	0.50	20.69	<=33.01	Pass		
		13	20.02	0.50	20.52	<=33.01	Pass		

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		25	0	20.16	0.50	20.66	<=33.01	Pass
Note1: EIRP=Conducted Power+Antenna Gain								

## 1.2 B38\_10MHz\_EIRP

### 1.2.1 Test Result

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	22.78	0.50	23.28	<=33.01	Pass		
			25	22.81	0.50	23.31	<=33.01	Pass		
			49	22.45	0.50	22.95	<=33.01	Pass		
		25	0	21.72	0.50	22.22	<=33.01	Pass		
			13	21.62	0.50	22.12	<=33.01	Pass		
			25	21.58	0.50	22.08	<=33.01	Pass		
		50	0	21.64	0.50	22.14	<=33.01	Pass		
		2595	1	0	22.43	0.50	22.93	<=33.01	Pass	
				25	22.67	0.50	23.17	<=33.01	Pass	
	49			22.34	0.50	22.84	<=33.01	Pass		
	25		0	21.45	0.50	21.95	<=33.01	Pass		
			13	21.39	0.50	21.89	<=33.01	Pass		
			25	21.39	0.50	21.89	<=33.01	Pass		
	50		0	21.42	0.50	21.92	<=33.01	Pass		
	2615		1	0	22.24	0.50	22.74	<=33.01	Pass	
				25	22.34	0.50	22.84	<=33.01	Pass	
		49		22.08	0.50	22.58	<=33.01	Pass		
		25	0	21.21	0.50	21.71	<=33.01	Pass		
			13	21.20	0.50	21.70	<=33.01	Pass		
			25	21.13	0.50	21.63	<=33.01	Pass		
		50	0	21.20	0.50	21.70	<=33.01	Pass		
		16QAM	2575	1	0	21.82	0.50	22.32	<=33.01	Pass
					25	21.84	0.50	22.34	<=33.01	Pass
	49				21.47	0.50	21.97	<=33.01	Pass	
25	0			20.68	0.50	21.18	<=33.01	Pass		
	13			20.59	0.50	21.09	<=33.01	Pass		
	25			20.53	0.50	21.03	<=33.01	Pass		
50	0			20.67	0.50	21.17	<=33.01	Pass		
2595	1			0	21.26	0.50	21.76	<=33.01	Pass	
				25	21.39	0.50	21.89	<=33.01	Pass	
			49	21.26	0.50	21.76	<=33.01	Pass		
	25		0	20.48	0.50	20.98	<=33.01	Pass		
			13	20.40	0.50	20.90	<=33.01	Pass		
			25	20.35	0.50	20.85	<=33.01	Pass		
	50		0	20.39	0.50	20.89	<=33.01	Pass		
	2615		1	0	21.21	0.50	21.71	<=33.01	Pass	
				25	21.02	0.50	21.52	<=33.01	Pass	
49				21.00	0.50	21.50	<=33.01	Pass		
25			0	20.26	0.50	20.76	<=33.01	Pass		
			13	20.21	0.50	20.71	<=33.01	Pass		
			25	20.11	0.50	20.61	<=33.01	Pass		
50			0	20.16	0.50	20.66	<=33.01	Pass		

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Note1: EIRP=Conducted Power+Antenna Gain

### 1.3 B38\_15MHz\_EIRP

#### 1.3.1 Test Result

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	22.72	0.50	23.22	<=33.01	Pass		
			38	22.53	0.50	23.03	<=33.01	Pass		
			74	22.35	0.50	22.85	<=33.01	Pass		
		36	0	21.69	0.50	22.19	<=33.01	Pass		
			18	21.66	0.50	22.16	<=33.01	Pass		
			39	21.56	0.50	22.06	<=33.01	Pass		
		75	0	21.68	0.50	22.18	<=33.01	Pass		
		2595	1	0	22.31	0.50	22.81	<=33.01	Pass	
				38	22.44	0.50	22.94	<=33.01	Pass	
	74			22.32	0.50	22.82	<=33.01	Pass		
	36		0	21.49	0.50	21.99	<=33.01	Pass		
			18	21.48	0.50	21.98	<=33.01	Pass		
			39	21.46	0.50	21.96	<=33.01	Pass		
	75		0	21.48	0.50	21.98	<=33.01	Pass		
	2612.5		1	0	22.16	0.50	22.66	<=33.01	Pass	
				38	22.21	0.50	22.71	<=33.01	Pass	
		74		21.97	0.50	22.47	<=33.01	Pass		
		36	0	21.39	0.50	21.89	<=33.01	Pass		
			18	21.30	0.50	21.80	<=33.01	Pass		
			39	21.18	0.50	21.68	<=33.01	Pass		
		75	0	21.28	0.50	21.78	<=33.01	Pass		
		16QAM	2577.5	1	0	21.69	0.50	22.19	<=33.01	Pass
					38	21.37	0.50	21.87	<=33.01	Pass
	74				21.11	0.50	21.61	<=33.01	Pass	
36	0			20.64	0.50	21.14	<=33.01	Pass		
	18			20.67	0.50	21.17	<=33.01	Pass		
	39			20.47	0.50	20.97	<=33.01	Pass		
75	0			20.60	0.50	21.10	<=33.01	Pass		
2595	1			0	21.22	0.50	21.72	<=33.01	Pass	
				38	21.33	0.50	21.83	<=33.01	Pass	
			74	21.18	0.50	21.68	<=33.01	Pass		
	36		0	20.40	0.50	20.90	<=33.01	Pass		
			18	20.40	0.50	20.90	<=33.01	Pass		
			39	20.34	0.50	20.84	<=33.01	Pass		
	75		0	20.43	0.50	20.93	<=33.01	Pass		
	2612.5		1	0	21.27	0.50	21.77	<=33.01	Pass	
				38	21.27	0.50	21.77	<=33.01	Pass	
74				20.93	0.50	21.43	<=33.01	Pass		
36			0	20.30	0.50	20.80	<=33.01	Pass		
			18	20.25	0.50	20.75	<=33.01	Pass		
			39	20.16	0.50	20.66	<=33.01	Pass		
75			0	20.29	0.50	20.79	<=33.01	Pass		

Note1: EIRP=Conducted Power+Antenna Gain



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1.4 B38\_20MHz\_EIRP

1.4.1 Test Result

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	22.43	0.50	22.93	<=33.01	Pass		
			50	22.74	0.50	23.24	<=33.01	Pass		
			99	22.12	0.50	22.62	<=33.01	Pass		
		50	0	21.53	0.50	22.03	<=33.01	Pass		
			25	21.52	0.50	22.02	<=33.01	Pass		
			50	21.37	0.50	21.87	<=33.01	Pass		
		100	0	21.50	0.50	22.00	<=33.01	Pass		
		2595	1	0	22.03	0.50	22.53	<=33.01	Pass	
				50	22.52	0.50	23.02	<=33.01	Pass	
	99			22.10	0.50	22.60	<=33.01	Pass		
	50		0	21.34	0.50	21.84	<=33.01	Pass		
			25	21.36	0.50	21.86	<=33.01	Pass		
			50	21.33	0.50	21.83	<=33.01	Pass		
	100		0	21.36	0.50	21.86	<=33.01	Pass		
	2610		1	0	22.12	0.50	22.62	<=33.01	Pass	
				50	22.26	0.50	22.76	<=33.01	Pass	
		99		21.74	0.50	22.24	<=33.01	Pass		
		50	0	21.33	0.50	21.83	<=33.01	Pass		
			25	21.29	0.50	21.79	<=33.01	Pass		
			50	21.11	0.50	21.61	<=33.01	Pass		
		100	0	21.27	0.50	21.77	<=33.01	Pass		
		16QAM	2580	1	0	21.45	0.50	21.95	<=33.01	Pass
					50	21.49	0.50	21.99	<=33.01	Pass
	99				21.29	0.50	21.79	<=33.01	Pass	
50	0			20.55	0.50	21.05	<=33.01	Pass		
	25			20.45	0.50	20.95	<=33.01	Pass		
	50			20.35	0.50	20.85	<=33.01	Pass		
100	0			20.47	0.50	20.97	<=33.01	Pass		
2595	1			0	20.84	0.50	21.34	<=33.01	Pass	
				50	21.69	0.50	22.19	<=33.01	Pass	
			99	20.79	0.50	21.29	<=33.01	Pass		
	50		0	20.34	0.50	20.84	<=33.01	Pass		
			25	20.41	0.50	20.91	<=33.01	Pass		
			50	20.29	0.50	20.79	<=33.01	Pass		
	100		0	20.35	0.50	20.85	<=33.01	Pass		
	2610		1	0	21.11	0.50	21.61	<=33.01	Pass	
				50	21.47	0.50	21.97	<=33.01	Pass	
99				20.78	0.50	21.28	<=33.01	Pass		
50			0	20.32	0.50	20.82	<=33.01	Pass		
			25	20.28	0.50	20.78	<=33.01	Pass		
			50	20.06	0.50	20.56	<=33.01	Pass		
100			0	20.24	0.50	20.74	<=33.01	Pass		

Note1: EIRP=Conducted Power+Antenna Gain



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## 2. Frequency Stability

### 2.1 B38\_5MHz

#### 2.1.1 Test Result

Band: 38 / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2572.5	25	0	20	3.23	-8.540	-0.0033	-2.5 to 2.5	Pass
					3.80	-9.513	-0.0037	-2.5 to 2.5	Pass
					4.37	-7.854	-0.0031	-2.5 to 2.5	Pass
				-30	3.80	-12.159	-0.0047	-2.5 to 2.5	Pass
				-20	3.80	-10.343	-0.0040	-2.5 to 2.5	Pass
				-10	3.80	-13.103	-0.0051	-2.5 to 2.5	Pass
				0	3.80	-12.460	-0.0048	-2.5 to 2.5	Pass
				10	3.80	-21.701	-0.0084	-2.5 to 2.5	Pass
				30	3.80	-17.724	-0.0069	-2.5 to 2.5	Pass
				40	3.80	-21.186	-0.0082	-2.5 to 2.5	Pass
	50	3.80	-26.336	-0.0102	-2.5 to 2.5	Pass			
	2595	25	0	20	3.23	-11.516	-0.0044	-2.5 to 2.5	Pass
					3.80	-7.024	-0.0027	-2.5 to 2.5	Pass
					4.37	-10.400	-0.0040	-2.5 to 2.5	Pass
				-30	3.80	-17.309	-0.0067	-2.5 to 2.5	Pass
				-20	3.80	-15.864	-0.0061	-2.5 to 2.5	Pass
				-10	3.80	-11.902	-0.0046	-2.5 to 2.5	Pass
				0	3.80	-13.604	-0.0052	-2.5 to 2.5	Pass
				10	3.80	-10.486	-0.0040	-2.5 to 2.5	Pass
				30	3.80	-19.512	-0.0075	-2.5 to 2.5	Pass
				40	3.80	-17.753	-0.0068	-2.5 to 2.5	Pass
	50	3.80	-17.638	-0.0068	-2.5 to 2.5	Pass			
	2617.5	25	0	20	3.23	-0.544	-0.0002	-2.5 to 2.5	Pass
					3.80	-1.774	-0.0007	-2.5 to 2.5	Pass
					4.37	-9.670	-0.0037	-2.5 to 2.5	Pass
				-30	3.80	-7.610	-0.0029	-2.5 to 2.5	Pass
				-20	3.80	-11.945	-0.0046	-2.5 to 2.5	Pass
				-10	3.80	-6.595	-0.0025	-2.5 to 2.5	Pass
				0	3.80	-6.080	-0.0023	-2.5 to 2.5	Pass
				10	3.80	-4.992	-0.0019	-2.5 to 2.5	Pass
30				3.80	-7.467	-0.0029	-2.5 to 2.5	Pass	
40				3.80	-14.963	-0.0057	-2.5 to 2.5	Pass	
50	3.80	-12.259	-0.0047	-2.5 to 2.5	Pass				
16QAM	2572.5	25	0	20	3.23	-21.229	-0.0083	-2.5 to 2.5	Pass
					3.80	-22.817	-0.0089	-2.5 to 2.5	Pass
					4.37	-27.466	-0.0107	-2.5 to 2.5	Pass
				-30	3.80	-19.541	-0.0076	-2.5 to 2.5	Pass
				-20	3.80	-18.597	-0.0072	-2.5 to 2.5	Pass
				-10	3.80	-21.787	-0.0085	-2.5 to 2.5	Pass
				0	3.80	-31.357	-0.0122	-2.5 to 2.5	Pass
				10	3.80	-31.013	-0.0121	-2.5 to 2.5	Pass
				30	3.80	-30.112	-0.0117	-2.5 to 2.5	Pass
				40	3.80	-30.084	-0.0117	-2.5 to 2.5	Pass
50	3.80	-27.494	-0.0107	-2.5 to 2.5	Pass				



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	2595	25	0	20	3.23	-23.346	-0.0090	-2.5 to 2.5	Pass	
					3.80	-18.325	-0.0071	-2.5 to 2.5	Pass	
					4.37	-18.940	-0.0073	-2.5 to 2.5	Pass	
				-30	3.80	-2.975	-0.0011	-2.5 to 2.5	Pass	
					-20	3.80	-15.121	-0.0058	-2.5 to 2.5	Pass
						-10	3.80	-9.928	-0.0038	-2.5 to 2.5
				0	3.80	-4.277	-0.0016	-2.5 to 2.5	Pass	
				10	3.80	-10.285	-0.0040	-2.5 to 2.5	Pass	
				30	3.80	-6.666	-0.0026	-2.5 to 2.5	Pass	
	40	3.80	-15.478	-0.0060	-2.5 to 2.5	Pass				
	50	3.80	-5.522	-0.0021	-2.5 to 2.5	Pass				
	2617.5	25	0	20	3.23	-13.876	-0.0053	-2.5 to 2.5	Pass	
					3.80	-10.428	-0.0040	-2.5 to 2.5	Pass	
					4.37	-2.689	-0.0010	-2.5 to 2.5	Pass	
				-30	3.80	4.849	0.0019	-2.5 to 2.5	Pass	
					-20	3.80	1.116	0.0004	-2.5 to 2.5	Pass
						-10	3.80	2.689	0.0010	-2.5 to 2.5
				0	3.80	-0.286	-0.0001	-2.5 to 2.5	Pass	
10				3.80	7.424	0.0028	-2.5 to 2.5	Pass		
30				3.80	-8.512	-0.0033	-2.5 to 2.5	Pass		
40	3.80	-5.722	-0.0022	-2.5 to 2.5	Pass					
50	3.80	-4.478	-0.0017	-2.5 to 2.5	Pass					

2.2 B38\_10MHz

2.2.1 Test Result

Band: 38 / Bandwidth: 10MHz										
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict	
		Size	Offset				Result	Limit		
QPSK	2575	50	0	20	3.27	-7.296	-0.0028	-2.5 to 2.5	Pass	
					3.85	-6.866	-0.0027	-2.5 to 2.5	Pass	
					4.43	-9.813	-0.0038	-2.5 to 2.5	Pass	
				-30	3.85	-6.895	-0.0027	-2.5 to 2.5	Pass	
					-20	3.85	-2.260	-0.0009	-2.5 to 2.5	Pass
						-10	3.85	-8.469	-0.0033	-2.5 to 2.5
				0	3.85	-2.890	-0.0011	-2.5 to 2.5	Pass	
				10	3.85	-5.479	-0.0021	-2.5 to 2.5	Pass	
				30	3.85	-5.064	-0.0020	-2.5 to 2.5	Pass	
	40	3.85	-11.559	-0.0045	-2.5 to 2.5	Pass				
	50	3.85	-5.465	-0.0021	-2.5 to 2.5	Pass				
	2595	50	0	20	3.27	7.496	0.0029	-2.5 to 2.5	Pass	
					3.85	-7.482	-0.0029	-2.5 to 2.5	Pass	
					4.43	-14.505	-0.0056	-2.5 to 2.5	Pass	
				-30	3.85	-4.120	-0.0016	-2.5 to 2.5	Pass	
					-20	3.85	-6.838	-0.0026	-2.5 to 2.5	Pass
						-10	3.85	-5.636	-0.0022	-2.5 to 2.5
				0	3.85	-9.785	-0.0038	-2.5 to 2.5	Pass	
10				3.85	-10.872	-0.0042	-2.5 to 2.5	Pass		
30				3.85	-8.526	-0.0033	-2.5 to 2.5	Pass		
40	3.85	-4.849	-0.0019	-2.5 to 2.5	Pass					
50	3.85	-7.010	-0.0027	-2.5 to 2.5	Pass					

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	2615	50	0	20	3.27	-4.735	-0.0018	-2.5 to 2.5	Pass				
					3.85	-11.573	-0.0044	-2.5 to 2.5	Pass				
					4.43	-3.748	-0.0014	-2.5 to 2.5	Pass				
				-30	3.85	-2.160	-0.0008	-2.5 to 2.5	Pass				
					-20	3.85	-13.003	-0.0050	-2.5 to 2.5	Pass			
				-10	3.85	-6.537	-0.0025	-2.5 to 2.5	Pass				
				0	3.85	-7.524	-0.0029	-2.5 to 2.5	Pass				
				10	3.85	-2.761	-0.0011	-2.5 to 2.5	Pass				
				30	3.85	-4.835	-0.0018	-2.5 to 2.5	Pass				
				40	3.85	-3.018	-0.0012	-2.5 to 2.5	Pass				
				50	3.85	-5.007	-0.0019	-2.5 to 2.5	Pass				
				16QAM	2575	50	0	20	3.27	-2.718	-0.0011	-2.5 to 2.5	Pass
									3.85	-0.215	-0.0001	-2.5 to 2.5	Pass
									4.43	-12.288	-0.0048	-2.5 to 2.5	Pass
-30	3.85	-9.942	-0.0039					-2.5 to 2.5	Pass				
	-20	3.85	0.930					0.0004	-2.5 to 2.5	Pass			
-10	3.85	0.200	0.0001					-2.5 to 2.5	Pass				
0	3.85	-1.917	-0.0007					-2.5 to 2.5	Pass				
10	3.85	-6.194	-0.0024					-2.5 to 2.5	Pass				
30	3.85	-2.575	-0.0010					-2.5 to 2.5	Pass				
40	3.85	-8.740	-0.0034					-2.5 to 2.5	Pass				
50	3.85	-5.736	-0.0022					-2.5 to 2.5	Pass				
16QAM	2595	50	0					20	3.27	-10.629	-0.0041	-2.5 to 2.5	Pass
									3.85	-7.782	-0.0030	-2.5 to 2.5	Pass
									4.43	-1.531	-0.0006	-2.5 to 2.5	Pass
				-30	3.85	-11.072	-0.0043	-2.5 to 2.5	Pass				
					-20	3.85	-7.224	-0.0028	-2.5 to 2.5	Pass			
				-10	3.85	-13.833	-0.0053	-2.5 to 2.5	Pass				
				0	3.85	-7.582	-0.0029	-2.5 to 2.5	Pass				
				10	3.85	-7.782	-0.0030	-2.5 to 2.5	Pass				
				30	3.85	-12.574	-0.0048	-2.5 to 2.5	Pass				
				40	3.85	-8.926	-0.0034	-2.5 to 2.5	Pass				
				50	3.85	-13.375	-0.0052	-2.5 to 2.5	Pass				
				16QAM	2615	50	0	20	3.27	-5.679	-0.0022	-2.5 to 2.5	Pass
									3.85	-5.651	-0.0022	-2.5 to 2.5	Pass
									4.43	-0.243	-0.0001	-2.5 to 2.5	Pass
-30	3.85	-1.402	-0.0005					-2.5 to 2.5	Pass				
	-20	3.85	-3.762					-0.0014	-2.5 to 2.5	Pass			
-10	3.85	-7.653	-0.0029					-2.5 to 2.5	Pass				
0	3.85	-11.244	-0.0043					-2.5 to 2.5	Pass				
10	3.85	-3.734	-0.0014					-2.5 to 2.5	Pass				
30	3.85	-11.230	-0.0043					-2.5 to 2.5	Pass				
40	3.85	-3.505	-0.0013					-2.5 to 2.5	Pass				
50	3.85	-0.229	-0.0001					-2.5 to 2.5	Pass				

2.3 B38\_15MHz

2.3.1 Test Result

Band: 38 / Bandwidth: 15MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	



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QPSK	2577.5	75	0	20	3.27	-6.866	-0.0027	-2.5 to 2.5	Pass	
					3.85	-5.507	-0.0021	-2.5 to 2.5	Pass	
					4.43	-8.569	-0.0033	-2.5 to 2.5	Pass	
				-30	3.85	-3.190	-0.0012	-2.5 to 2.5	Pass	
					-20	3.85	-8.683	-0.0034	-2.5 to 2.5	Pass
						-10	3.85	-4.535	-0.0018	-2.5 to 2.5
				0	3.85	-1.845	-0.0007	-2.5 to 2.5	Pass	
					10	3.85	-5.465	-0.0021	-2.5 to 2.5	Pass
					30	3.85	-10.557	-0.0041	-2.5 to 2.5	Pass
	2595	75	0	20	3.27	-6.580	-0.0025	-2.5 to 2.5	Pass	
					3.85	-4.191	-0.0016	-2.5 to 2.5	Pass	
					4.43	-5.980	-0.0023	-2.5 to 2.5	Pass	
				-30	3.85	-1.774	-0.0007	-2.5 to 2.5	Pass	
					-20	3.85	-3.362	-0.0013	-2.5 to 2.5	Pass
						-10	3.85	-3.147	-0.0012	-2.5 to 2.5
				0	3.85	-0.801	-0.0003	-2.5 to 2.5	Pass	
					10	3.85	-8.311	-0.0032	-2.5 to 2.5	Pass
					30	3.85	-5.851	-0.0023	-2.5 to 2.5	Pass
2612.5	75	0	20	3.27	-5.722	-0.0022	-2.5 to 2.5	Pass		
				3.85	-1.602	-0.0006	-2.5 to 2.5	Pass		
				4.43	-6.251	-0.0024	-2.5 to 2.5	Pass		
			-30	3.85	-8.512	-0.0033	-2.5 to 2.5	Pass		
				-20	3.85	-5.307	-0.0020	-2.5 to 2.5	Pass	
					-10	3.85	-9.298	-0.0036	-2.5 to 2.5	Pass
			0	3.85	1.230	0.0005	-2.5 to 2.5	Pass		
				10	3.85	-4.134	-0.0016	-2.5 to 2.5	Pass	
				30	3.85	-4.921	-0.0019	-2.5 to 2.5	Pass	
16QAM	2577.5	75	0	20	3.27	-5.593	-0.0022	-2.5 to 2.5	Pass	
					3.85	0.744	0.0003	-2.5 to 2.5	Pass	
					4.43	-10.457	-0.0041	-2.5 to 2.5	Pass	
				-30	3.85	-3.147	-0.0012	-2.5 to 2.5	Pass	
					-20	3.85	-7.310	-0.0028	-2.5 to 2.5	Pass
						-10	3.85	-4.063	-0.0016	-2.5 to 2.5
				0	3.85	-6.781	-0.0026	-2.5 to 2.5	Pass	
					10	3.85	-4.077	-0.0016	-2.5 to 2.5	Pass
					30	3.85	-0.629	-0.0002	-2.5 to 2.5	Pass
	2595	75	0	20	3.27	-0.029	0.0000	-2.5 to 2.5	Pass	
					3.85	-9.198	-0.0035	-2.5 to 2.5	Pass	
					4.43	-3.920	-0.0015	-2.5 to 2.5	Pass	
				-30	3.85	0.930	0.0004	-2.5 to 2.5	Pass	
					-20	3.85	-4.506	-0.0017	-2.5 to 2.5	Pass
						-10	3.85	-2.704	-0.0010	-2.5 to 2.5
				0	3.85	-6.852	-0.0026	-2.5 to 2.5	Pass	
					10	3.85	-3.333	-0.0013	-2.5 to 2.5	Pass
					30	3.85	-5.651	-0.0022	-2.5 to 2.5	Pass
40	3.85	-3.204	-0.0012	-2.5 to 2.5	Pass					

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	2612.5	75	0	50	3.85	-4.892	-0.0019	-2.5 to 2.5	Pass
				20	3.27	5.078	0.0019	-2.5 to 2.5	Pass
					3.85	-12.932	-0.0050	-2.5 to 2.5	Pass
					4.43	-0.887	-0.0003	-2.5 to 2.5	Pass
				-30	3.85	-2.031	-0.0008	-2.5 to 2.5	Pass
				-20	3.85	-2.389	-0.0009	-2.5 to 2.5	Pass
				-10	3.85	-3.648	-0.0014	-2.5 to 2.5	Pass
				0	3.85	-1.388	-0.0005	-2.5 to 2.5	Pass
				10	3.85	-1.702	-0.0007	-2.5 to 2.5	Pass
				30	3.85	-5.665	-0.0022	-2.5 to 2.5	Pass
				40	3.85	-3.576	-0.0014	-2.5 to 2.5	Pass
				50	3.85	-7.968	-0.0030	-2.5 to 2.5	Pass

2.4 B38\_20MHz

2.4.1 Test Result

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	3.27	-9.871	-0.0038	-2.5 to 2.5	Pass
					3.85	-7.753	-0.0030	-2.5 to 2.5	Pass
					4.43	-6.266	-0.0024	-2.5 to 2.5	Pass
				-30	3.85	-7.839	-0.0030	-2.5 to 2.5	Pass
				-20	3.85	-9.341	-0.0036	-2.5 to 2.5	Pass
				-10	3.85	-5.679	-0.0022	-2.5 to 2.5	Pass
				0	3.85	-8.054	-0.0031	-2.5 to 2.5	Pass
				10	3.85	-9.184	-0.0036	-2.5 to 2.5	Pass
				30	3.85	-10.014	-0.0039	-2.5 to 2.5	Pass
				40	3.85	-7.381	-0.0029	-2.5 to 2.5	Pass
				50	3.85	-13.547	-0.0053	-2.5 to 2.5	Pass
				2595	100	0	20	3.27	-2.503
	3.85	-3.233	-0.0012					-2.5 to 2.5	Pass
	4.43	-5.851	-0.0023					-2.5 to 2.5	Pass
	-30	3.85	-7.381				-0.0028	-2.5 to 2.5	Pass
	-20	3.85	-4.506				-0.0017	-2.5 to 2.5	Pass
	-10	3.85	-5.150				-0.0020	-2.5 to 2.5	Pass
	0	3.85	-5.550				-0.0021	-2.5 to 2.5	Pass
	10	3.85	2.532				0.0010	-2.5 to 2.5	Pass
	30	3.85	-1.073				-0.0004	-2.5 to 2.5	Pass
	40	3.85	-13.533				-0.0052	-2.5 to 2.5	Pass
	50	3.85	-6.981				-0.0027	-2.5 to 2.5	Pass
	2610	100	0				20	3.27	-10.743
				3.85	-1.316	-0.0005		-2.5 to 2.5	Pass
4.43				-12.345	-0.0047	-2.5 to 2.5		Pass	
-30				3.85	-5.307	-0.0020	-2.5 to 2.5	Pass	
-20				3.85	-12.217	-0.0047	-2.5 to 2.5	Pass	
-10				3.85	-10.529	-0.0040	-2.5 to 2.5	Pass	
0				3.85	-7.524	-0.0029	-2.5 to 2.5	Pass	
10				3.85	-9.584	-0.0037	-2.5 to 2.5	Pass	
30				3.85	1.745	0.0007	-2.5 to 2.5	Pass	
40				3.85	-6.895	-0.0026	-2.5 to 2.5	Pass	

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16QAM	2580	100	0	50	3.85	-1.445	-0.0006	-2.5 to 2.5	Pass
				20	3.27	-4.406	-0.0017	-2.5 to 2.5	Pass
					3.85	-4.778	-0.0019	-2.5 to 2.5	Pass
					4.43	-11.230	-0.0044	-2.5 to 2.5	Pass
				-30	3.85	-2.618	-0.0010	-2.5 to 2.5	Pass
				-20	3.85	-6.838	-0.0027	-2.5 to 2.5	Pass
				-10	3.85	-5.980	-0.0023	-2.5 to 2.5	Pass
				0	3.85	-10.772	-0.0042	-2.5 to 2.5	Pass
				10	3.85	-9.928	-0.0038	-2.5 to 2.5	Pass
				30	3.85	-6.080	-0.0024	-2.5 to 2.5	Pass
	40	3.85	-14.248	-0.0055	-2.5 to 2.5	Pass			
	50	3.85	-7.410	-0.0029	-2.5 to 2.5	Pass			
	2595	100	0	20	3.27	-3.705	-0.0014	-2.5 to 2.5	Pass
					3.85	-12.245	-0.0047	-2.5 to 2.5	Pass
					4.43	-7.596	-0.0029	-2.5 to 2.5	Pass
				-30	3.85	-6.809	-0.0026	-2.5 to 2.5	Pass
				-20	3.85	-4.749	-0.0018	-2.5 to 2.5	Pass
				-10	3.85	-12.360	-0.0048	-2.5 to 2.5	Pass
				0	3.85	-5.050	-0.0019	-2.5 to 2.5	Pass
				10	3.85	-2.847	-0.0011	-2.5 to 2.5	Pass
				30	3.85	-8.655	-0.0033	-2.5 to 2.5	Pass
				40	3.85	-8.769	-0.0034	-2.5 to 2.5	Pass
	2610	100	0	20	3.27	-12.689	-0.0049	-2.5 to 2.5	Pass
					3.85	0.615	0.0002	-2.5 to 2.5	Pass
					4.43	-10.986	-0.0042	-2.5 to 2.5	Pass
				-30	3.85	-3.748	-0.0014	-2.5 to 2.5	Pass
				-20	3.85	-13.819	-0.0053	-2.5 to 2.5	Pass
				-10	3.85	-2.217	-0.0008	-2.5 to 2.5	Pass
				0	3.85	-3.891	-0.0015	-2.5 to 2.5	Pass
				10	3.85	0.443	0.0002	-2.5 to 2.5	Pass
30				3.85	-7.439	-0.0029	-2.5 to 2.5	Pass	
40				3.85	-6.595	-0.0025	-2.5 to 2.5	Pass	
50	3.85	-10.114	-0.0039	-2.5 to 2.5	Pass				

### 3. 99% & 26dB Bandwidth

#### 3.1 Band38\_OBW

##### 3.1.1 Test Result

Band: 38 / NTV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)	Verdict
			Size	Offset	Result	
5	QPSK	2572.5	25	0	4.537	Pass
		2595	25	0	4.540	Pass
		2617.5	25	0	4.545	Pass
	16QAM	2572.5	25	0	4.536	Pass
		2595	25	0	4.523	Pass
		2617.5	25	0	4.531	Pass
10	QPSK	2575	50	0	9.041	Pass
		2595	50	0	9.043	Pass



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		2615	50	0	9.058	Pass
	16QAM	2575	50	0	9.068	Pass
		2595	50	0	9.071	Pass
		2615	50	0	9.057	Pass
		2577.5	75	0	13.613	Pass
15	QPSK	2595	75	0	13.580	Pass
		2612.5	75	0	13.557	Pass
		2577.5	75	0	13.590	Pass
	16QAM	2595	75	0	13.561	Pass
		2612.5	75	0	13.613	Pass
		2580	100	0	18.112	Pass
20	QPSK	2595	100	0	18.059	Pass
		2610	100	0	18.100	Pass
		2580	100	0	18.053	Pass
	16QAM	2595	100	0	18.128	Pass
		2610	100	0	18.160	Pass



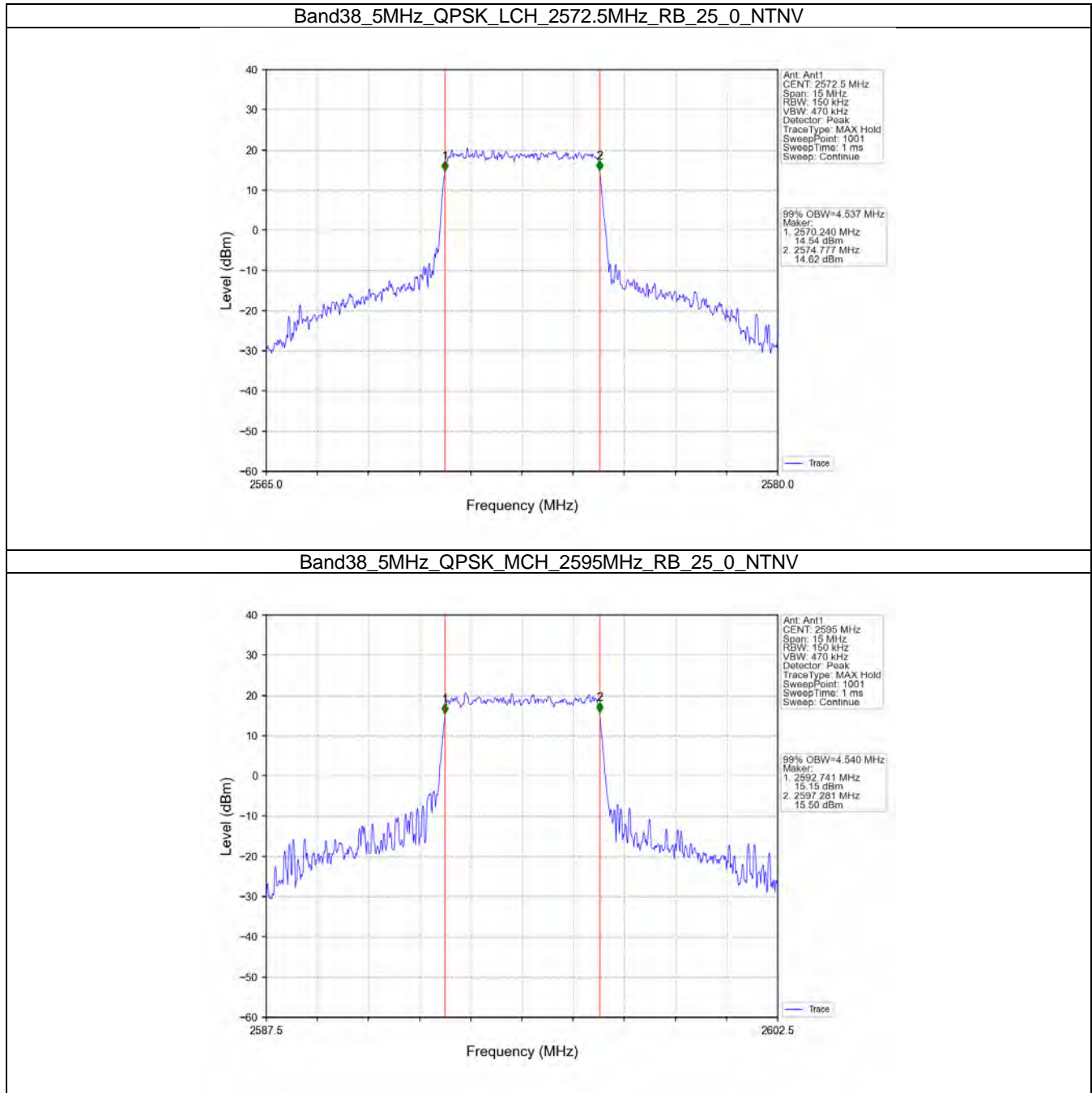
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3.1.2 Test Graph

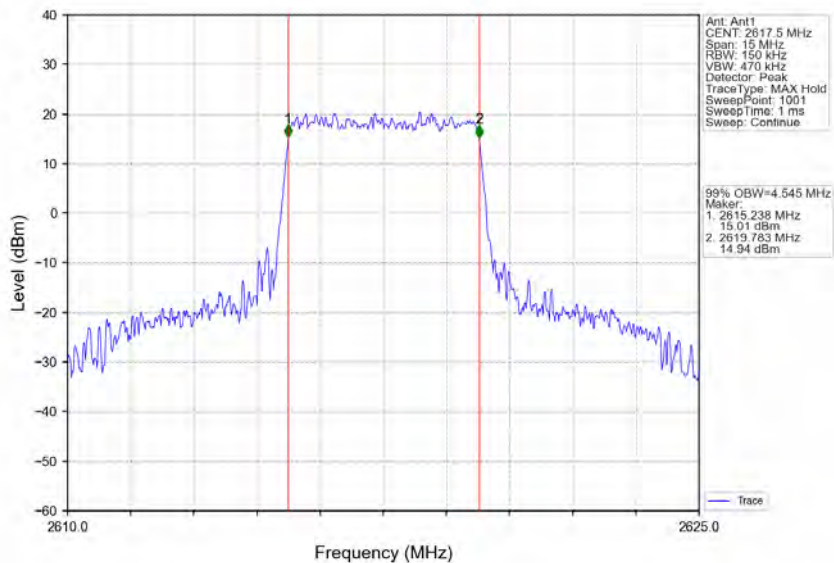


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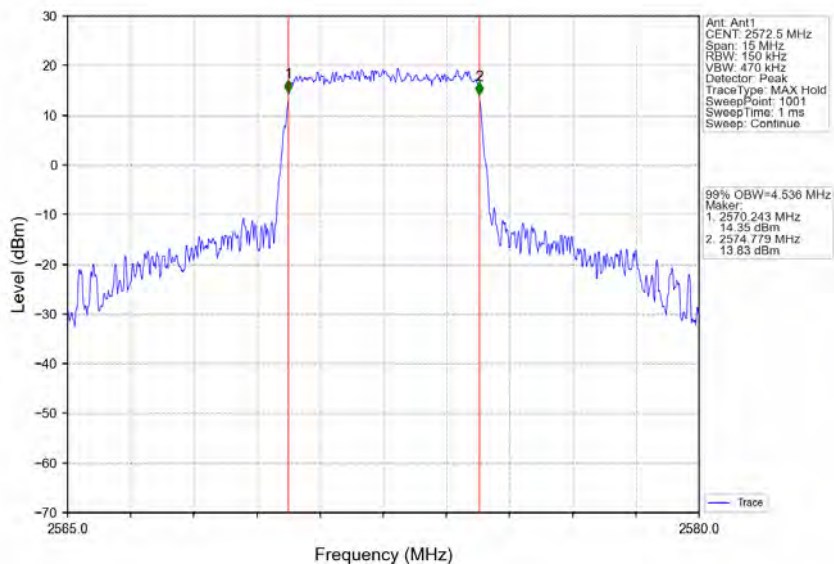
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Band38\_5MHz\_QPSK\_HCH\_2617.5MHz\_RB\_25\_0\_NTNV



Band38\_5MHz\_16QAM\_LCH\_2572.5MHz\_RB\_25\_0\_NTNV



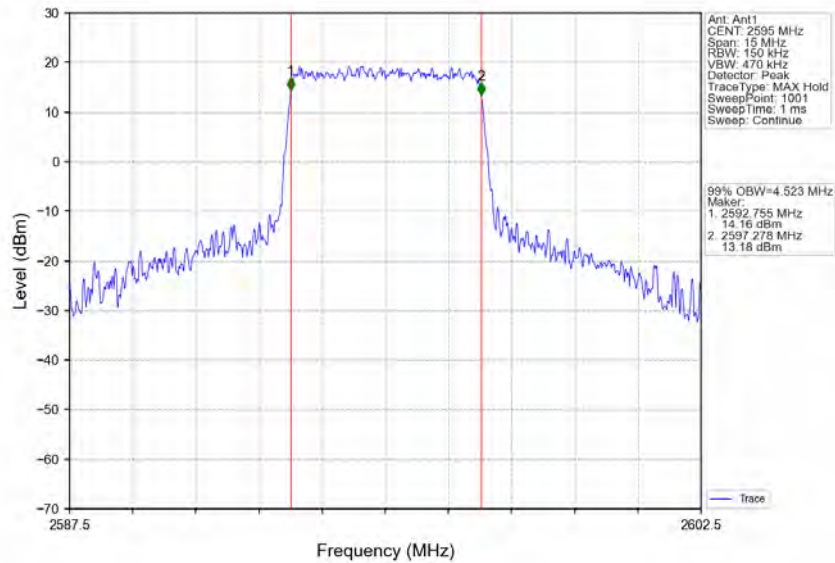
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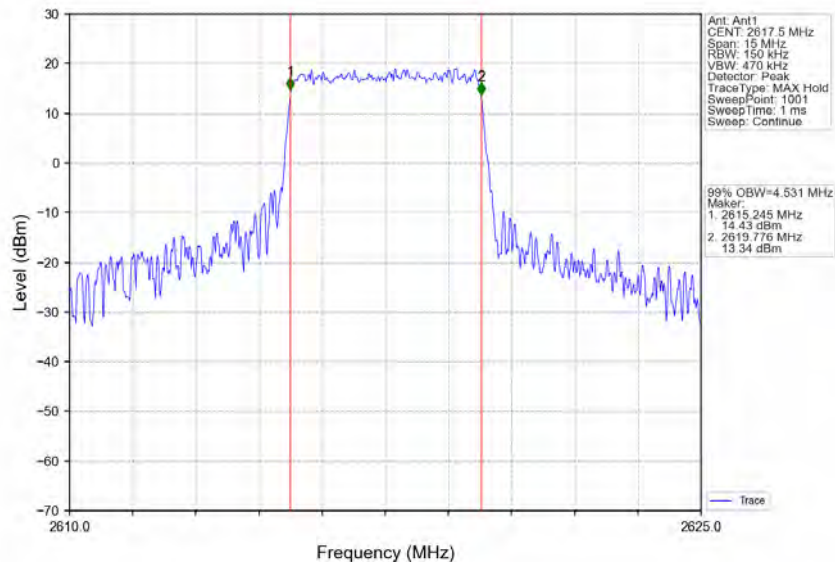
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Band38\_5MHz\_16QAM\_MCH\_2595MHz\_RB\_25\_0\_NTNV



Band38\_5MHz\_16QAM\_HCH\_2617.5MHz\_RB\_25\_0\_NTNV



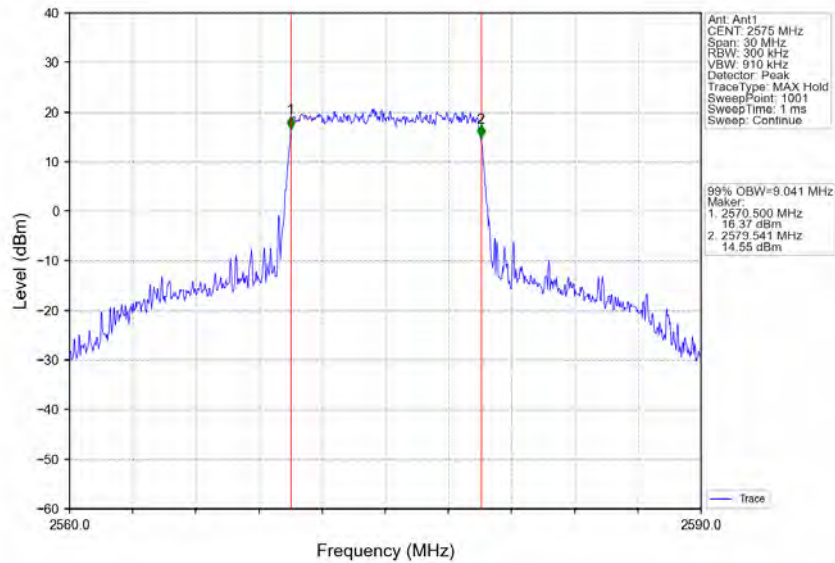
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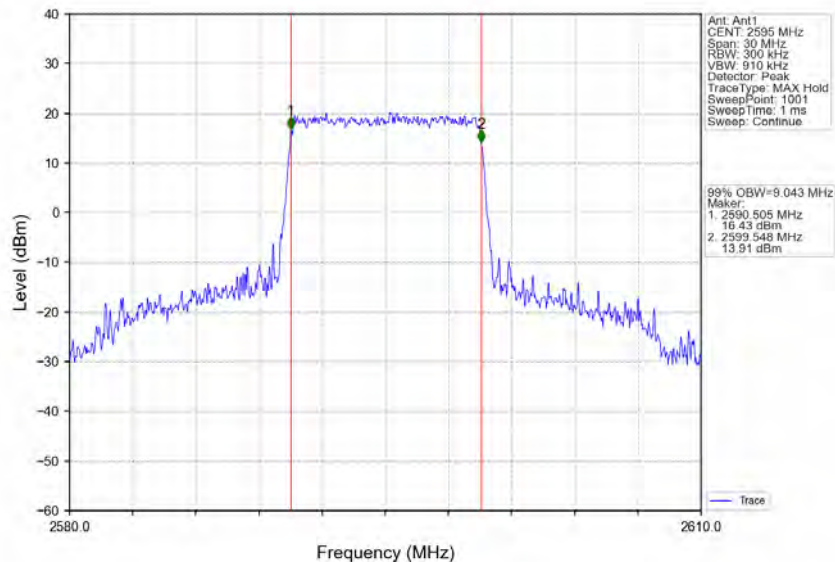
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Band38\_10MHz\_QPSK\_LCH\_2575MHz\_RB\_50\_0\_NTNV



Band38\_10MHz\_QPSK\_MCH\_2595MHz\_RB\_50\_0\_NTNV



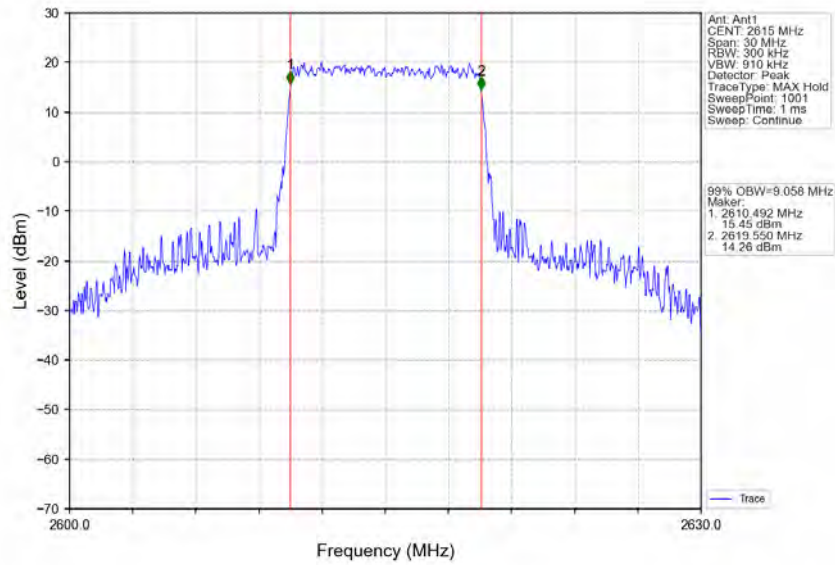
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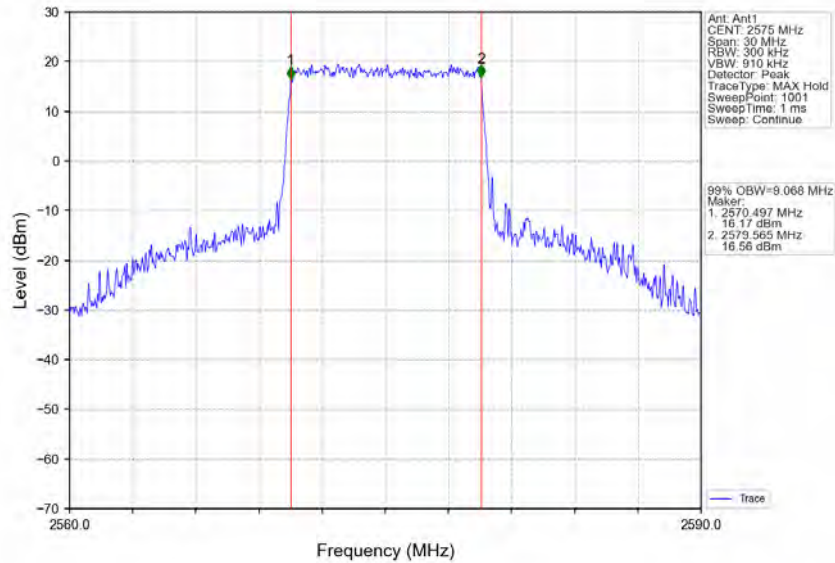
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Band38\_10MHz\_QPSK\_HCH\_2615MHz\_RB\_50\_0\_NTNV



Band38\_10MHz\_16QAM\_LCH\_2575MHz\_RB\_50\_0\_NTNV



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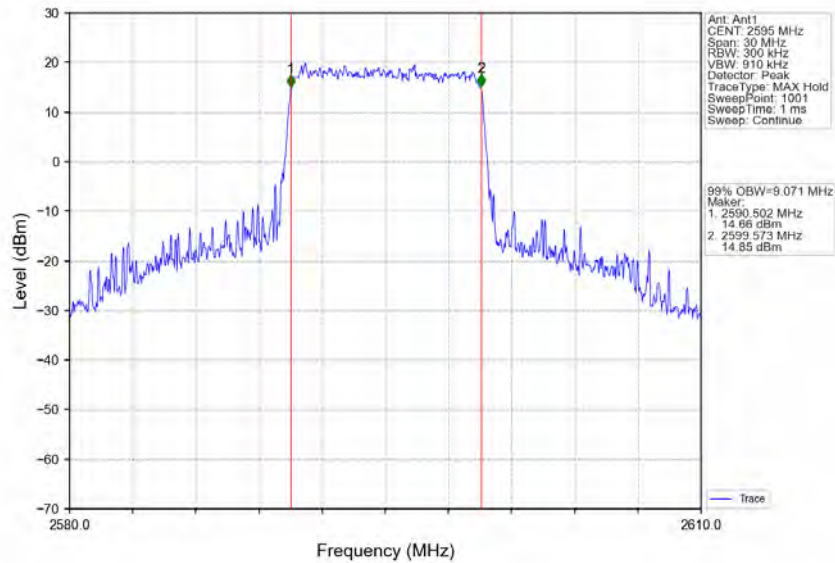
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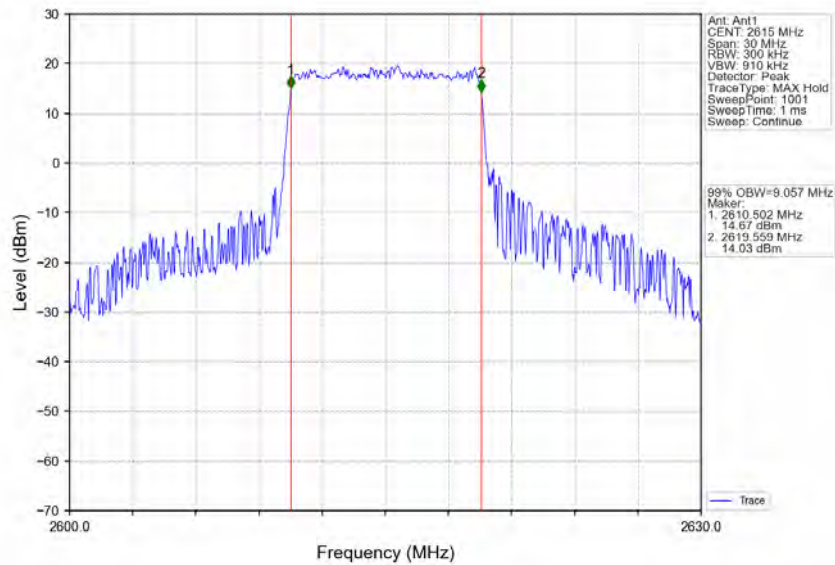
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Band38\_10MHz\_16QAM\_MCH\_2595MHz\_RB\_50\_0\_NTNV



Band38\_10MHz\_16QAM\_HCH\_2615MHz\_RB\_50\_0\_NTNV

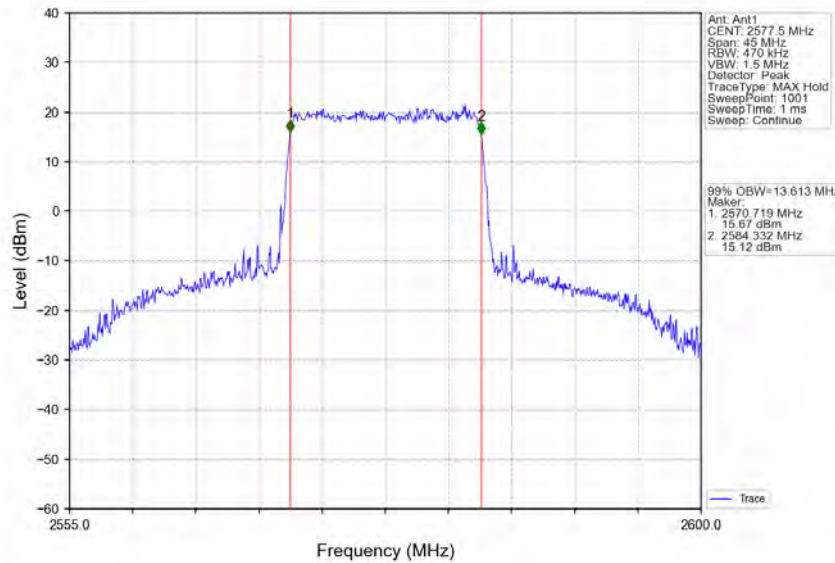


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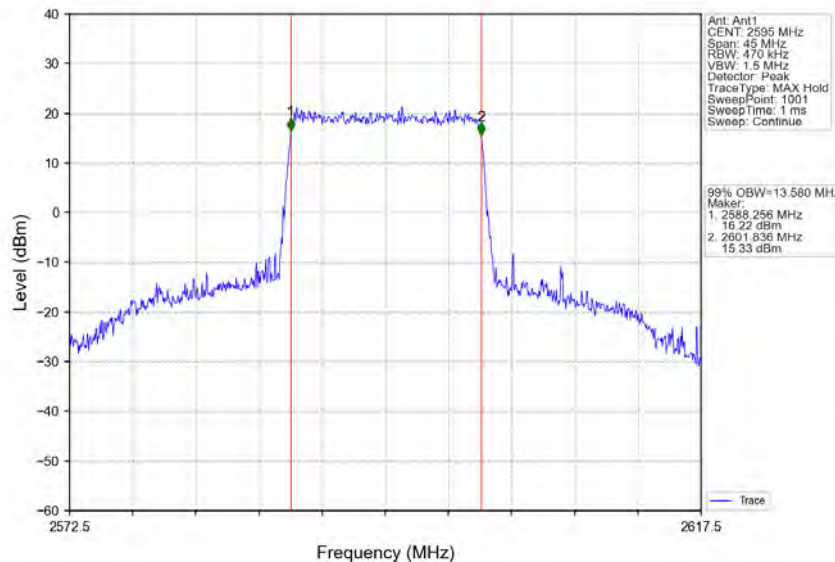
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Band38\_15MHz\_QPSK\_LCH\_2577.5MHz\_RB\_75\_0\_NTNV



Band38\_15MHz\_QPSK\_MCH\_2595MHz\_RB\_75\_0\_NTNV



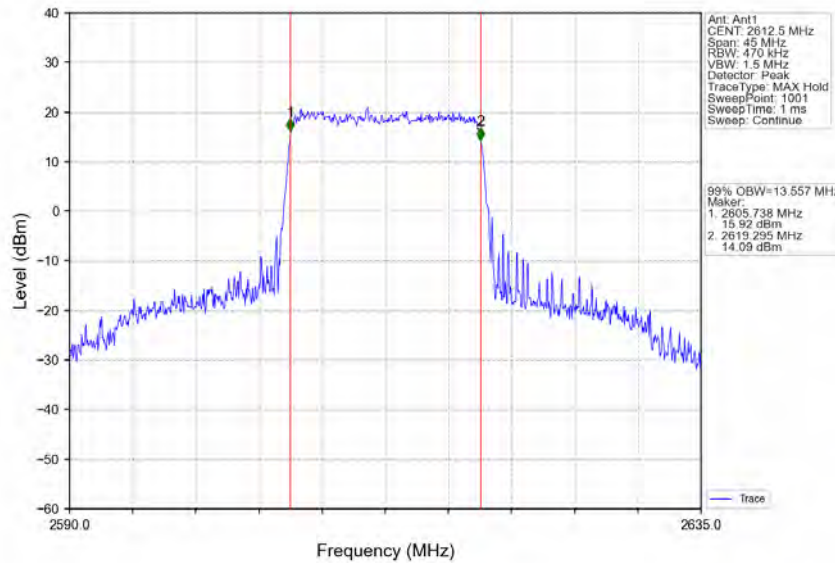
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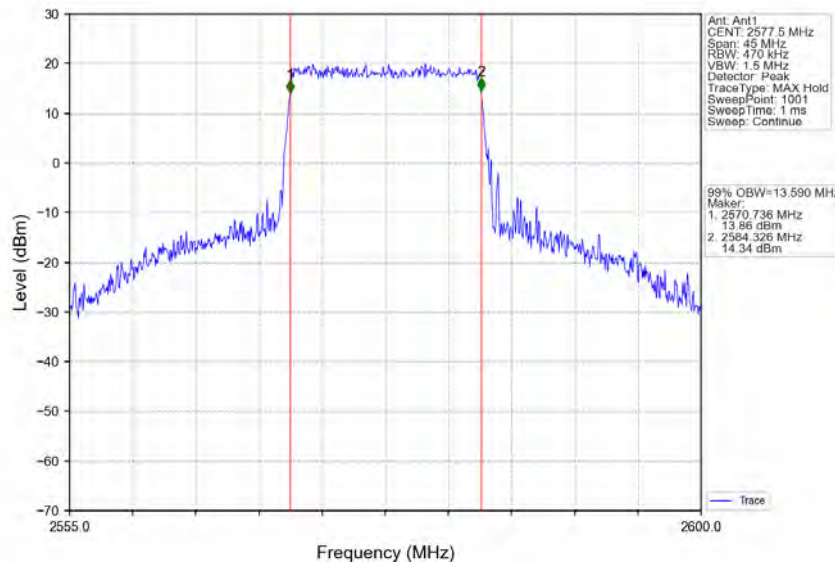
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Band38\_15MHz\_16QAM\_LCH\_2577.5MHz\_RB\_75\_0\_NTNV



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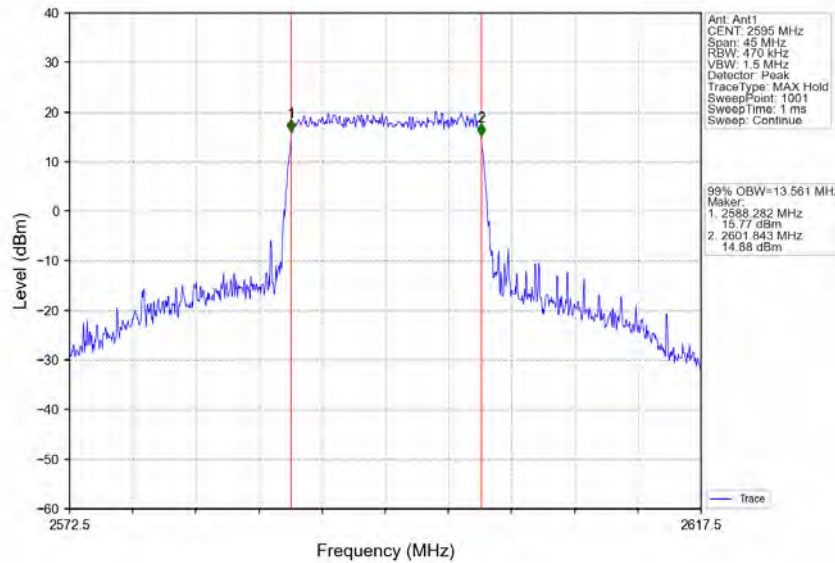
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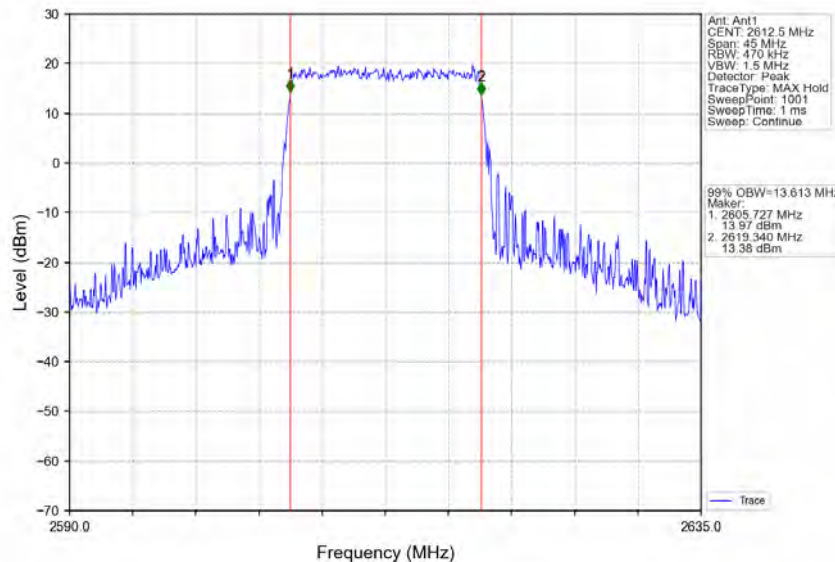
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Band38\_15MHz\_16QAM\_HCH\_2612.5MHz\_RB\_75\_0\_NTNV



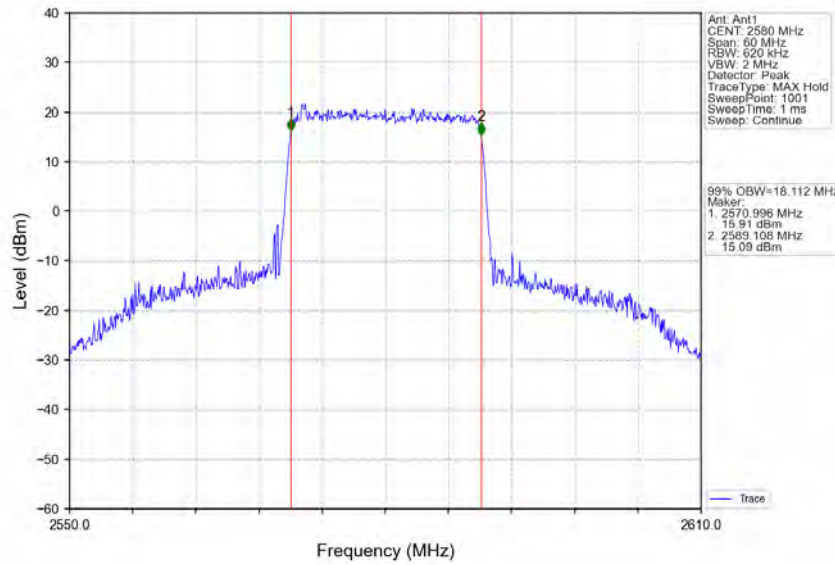
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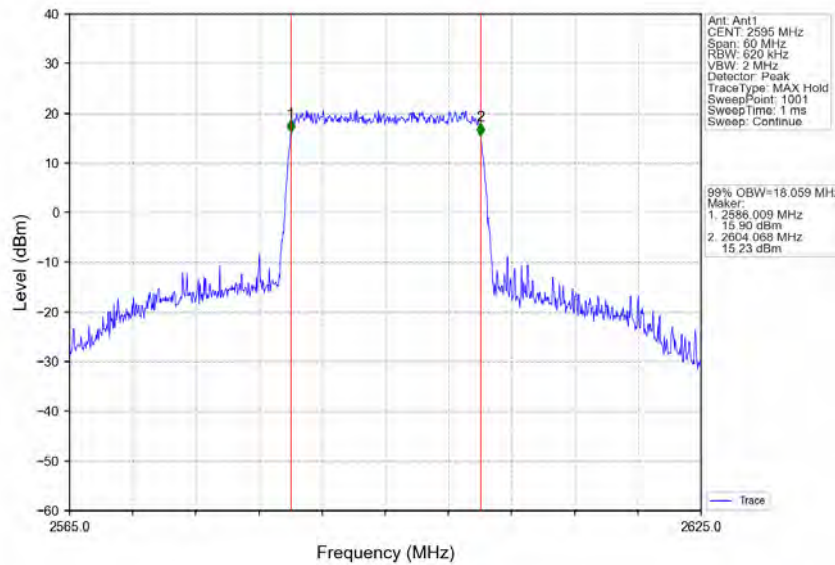
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Band38\_20MHz\_QPSK\_LCH\_2580MHz\_RB\_100\_0\_NTNV



Band38\_20MHz\_QPSK\_MCH\_2595MHz\_RB\_100\_0\_NTNV



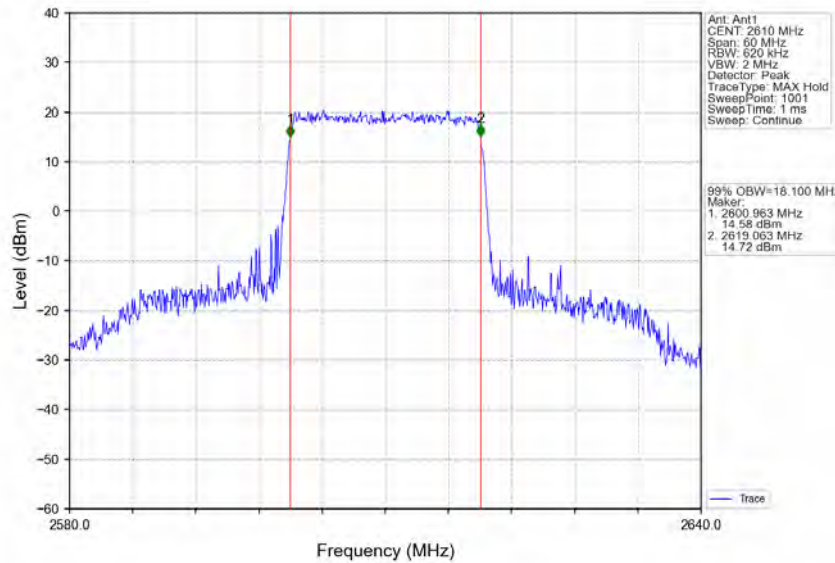
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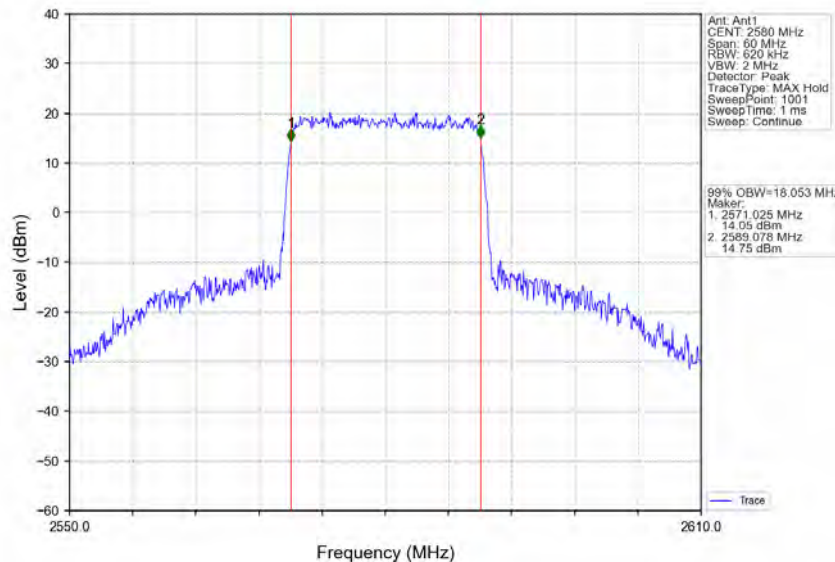
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Band38\_20MHz\_16QAM\_LCH\_2580MHz\_RB\_100\_0\_NTNV



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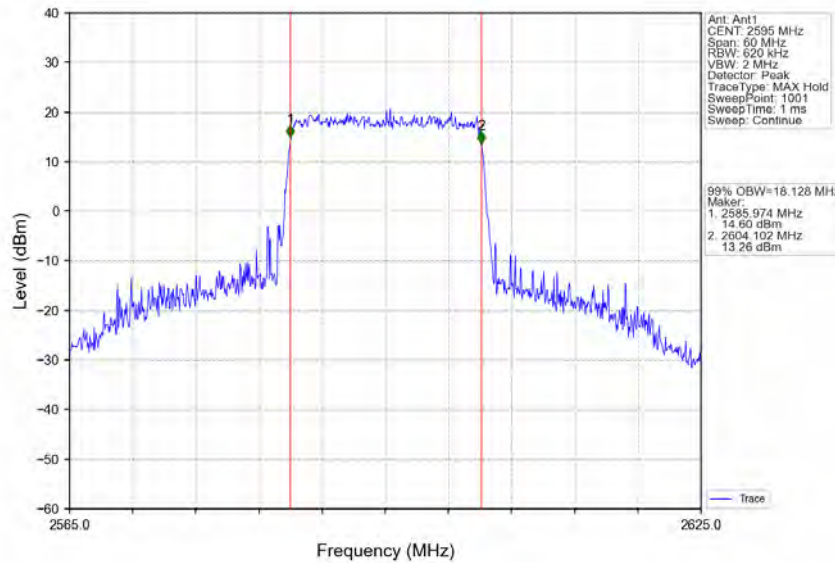
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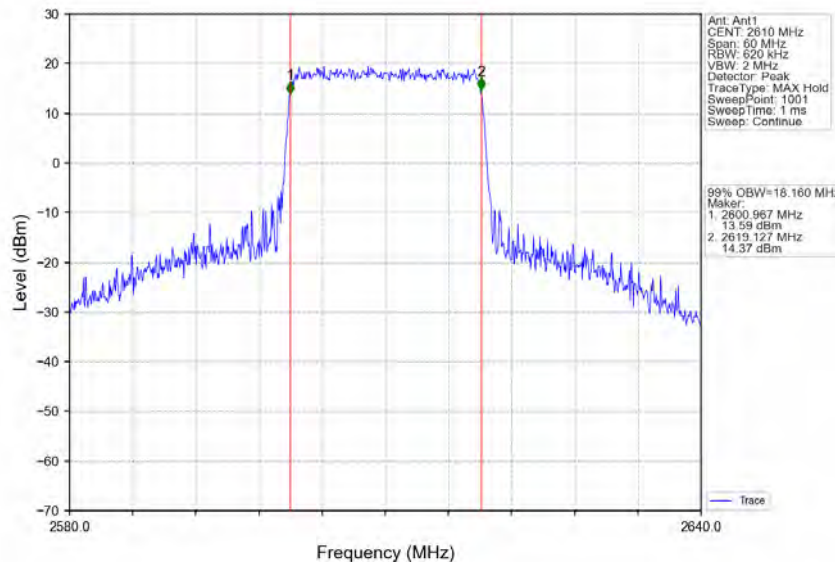
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Band38\_20MHz\_16QAM\_HCH\_2610MHz\_RB\_100\_0\_NTNV



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3.2 Band38\_XDB

3.2.1 Test Result

Band: 38 / NTNV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)	Verdict
			Size	Offset	Result	
5	QPSK	2572.5	25	0	5.031	Pass
		2595	25	0	5.266	Pass
		2617.5	25	0	5.037	Pass
	16QAM	2572.5	25	0	5.012	Pass
		2595	25	0	4.997	Pass
		2617.5	25	0	5.276	Pass
10	QPSK	2575	50	0	10.088	Pass
		2595	50	0	9.963	Pass
		2615	50	0	10.066	Pass
	16QAM	2575	50	0	10.026	Pass
		2595	50	0	10.263	Pass
		2615	50	0	11.380	Pass
15	QPSK	2577.5	75	0	14.927	Pass
		2595	75	0	14.807	Pass
		2612.5	75	0	15.877	Pass
	16QAM	2577.5	75	0	15.567	Pass
		2595	75	0	15.607	Pass
		2612.5	75	0	17.017	Pass
20	QPSK	2580	100	0	20.161	Pass
		2595	100	0	19.752	Pass
		2610	100	0	20.793	Pass
	16QAM	2580	100	0	19.584	Pass
		2595	100	0	21.144	Pass
		2610	100	0	19.882	Pass



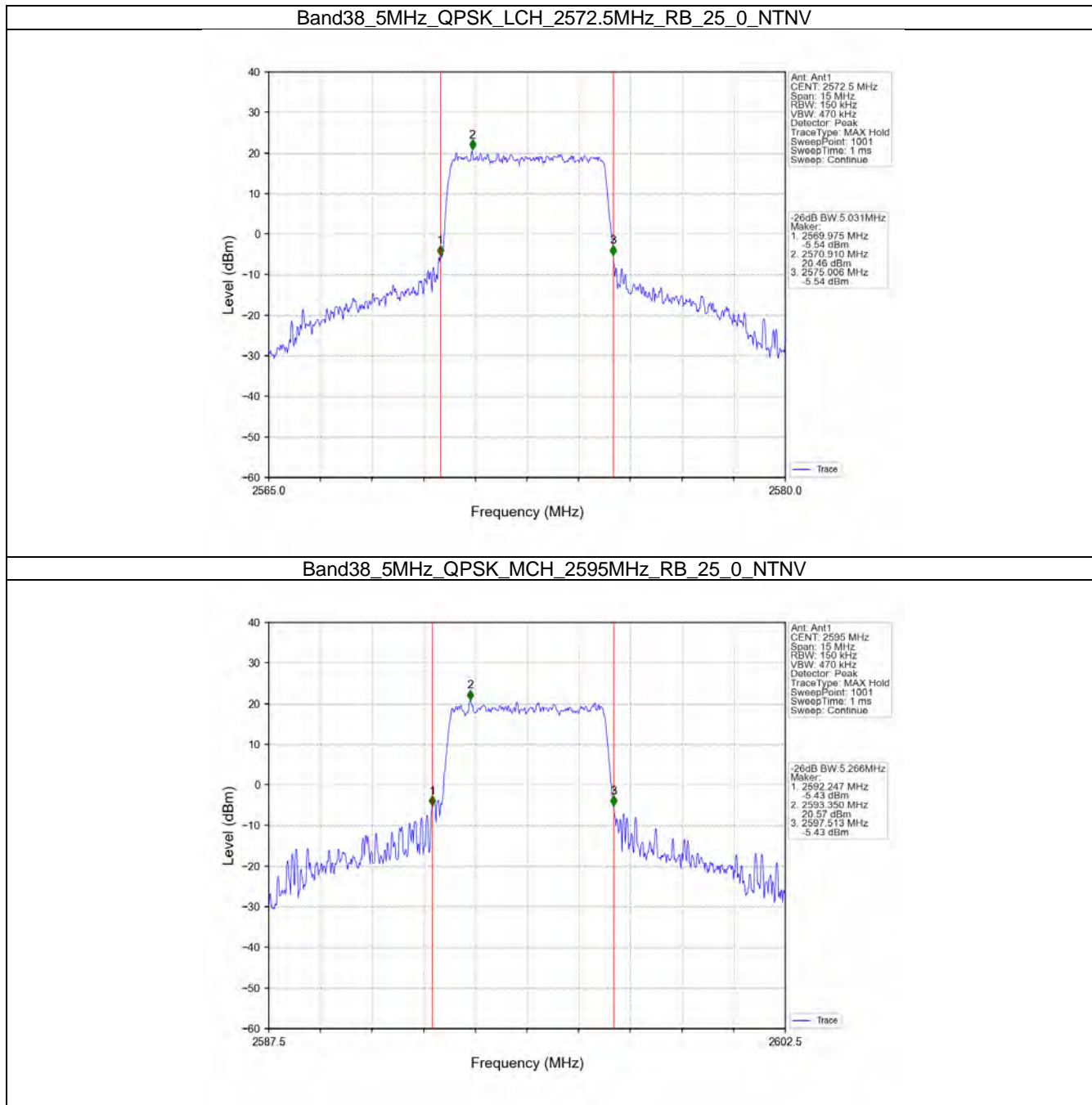
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## 3.2.2 Test Graph



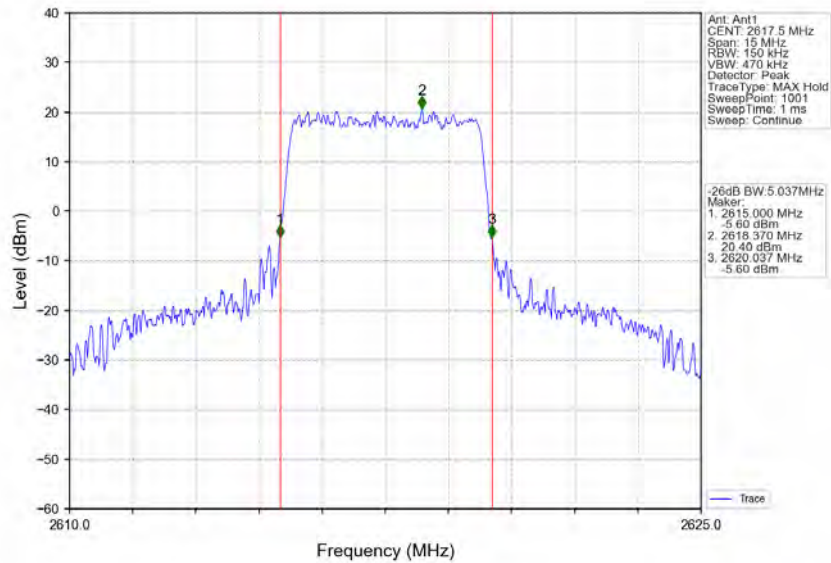
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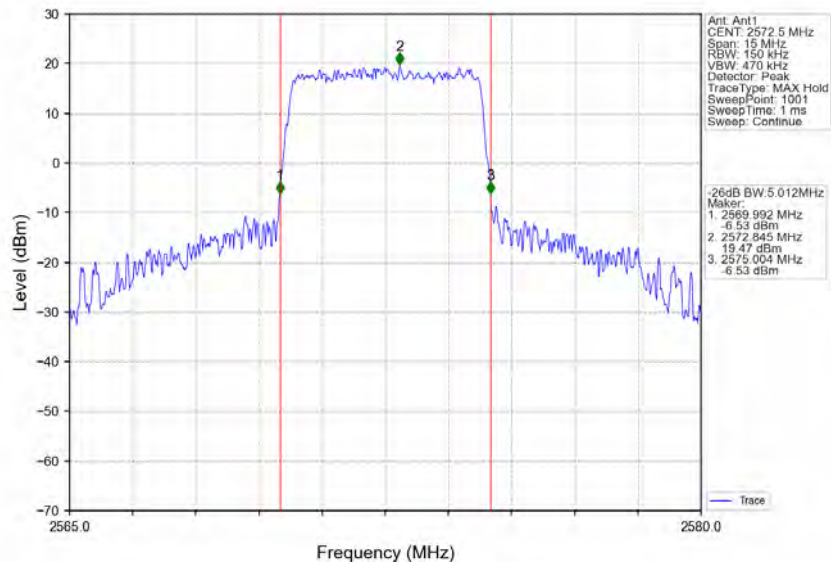
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Band38\_5MHz\_QPSK\_HCH\_2617.5MHz\_RB\_25\_0\_NTNV



Band38\_5MHz\_16QAM\_LCH\_2572.5MHz\_RB\_25\_0\_NTNV



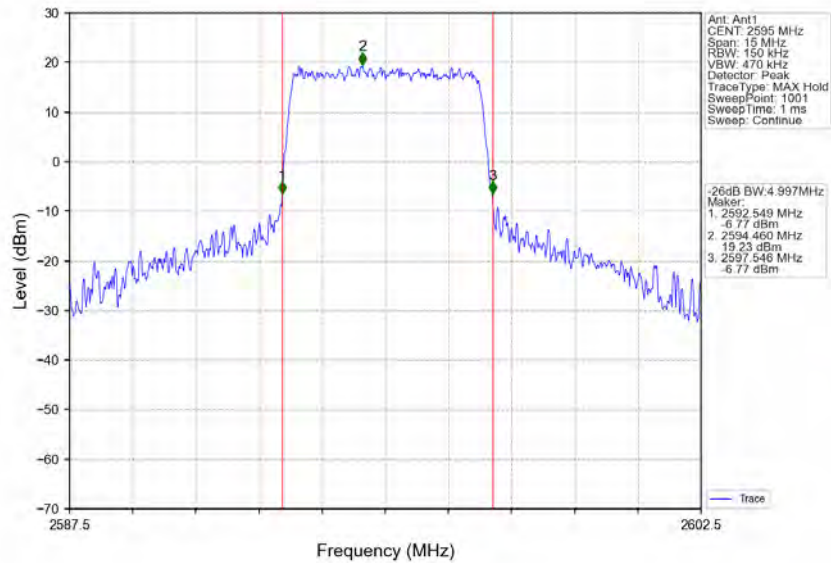
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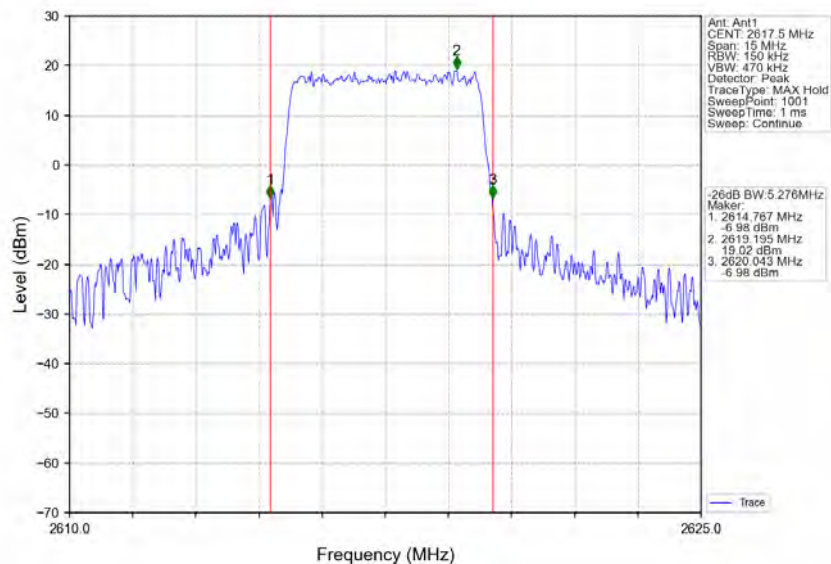
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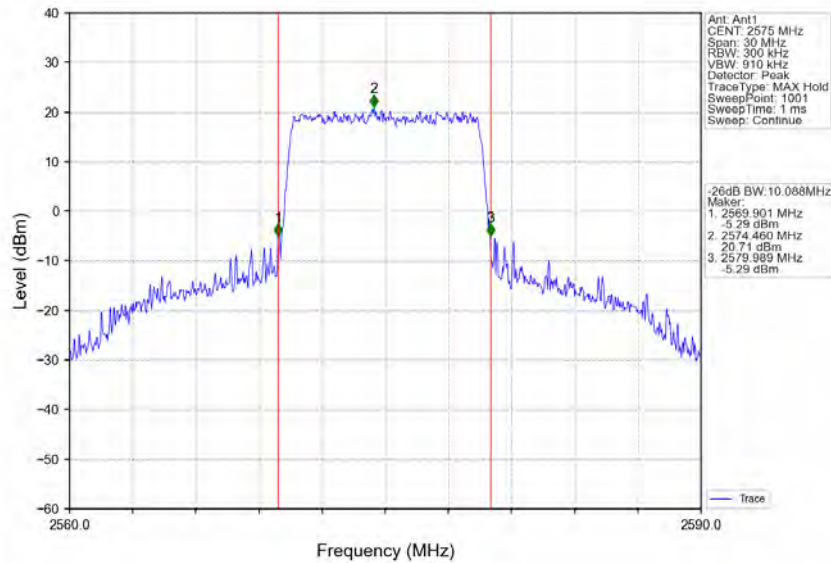
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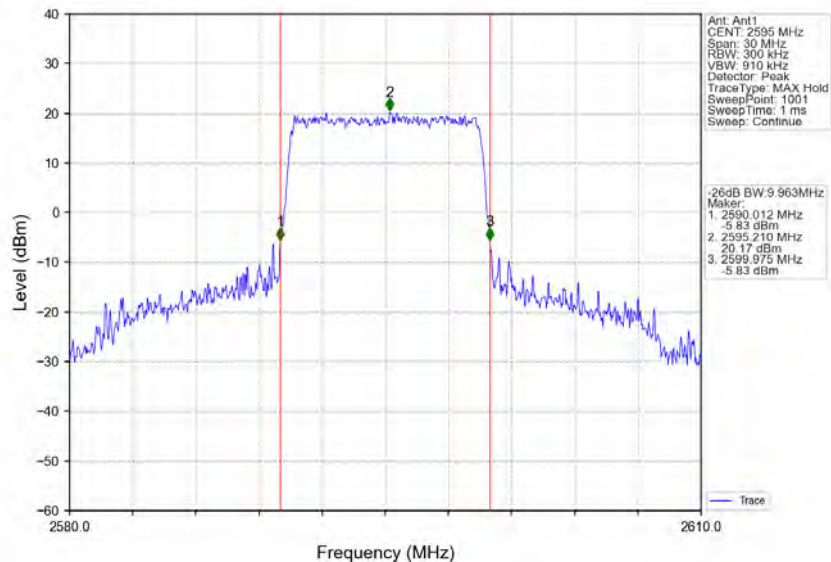
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Band38\_10MHz\_QPSK\_MCH\_2595MHz\_RB\_50\_0\_NTNV



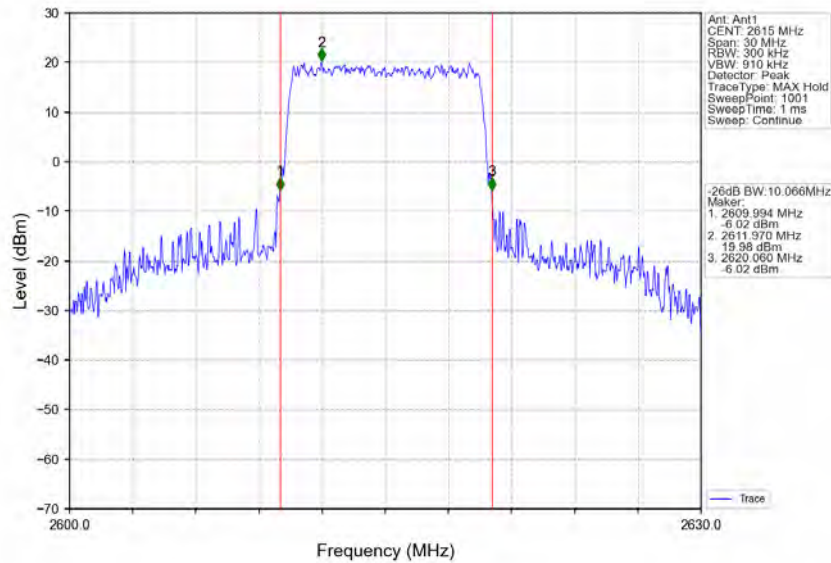
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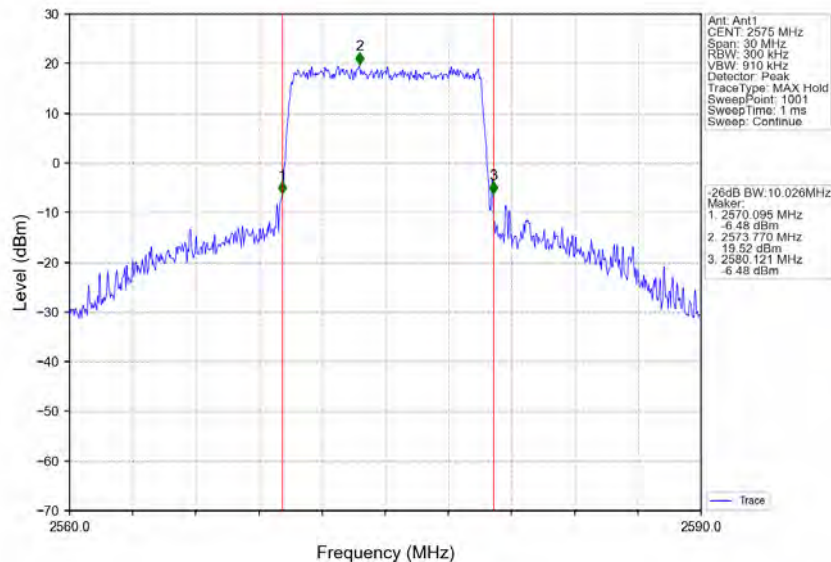
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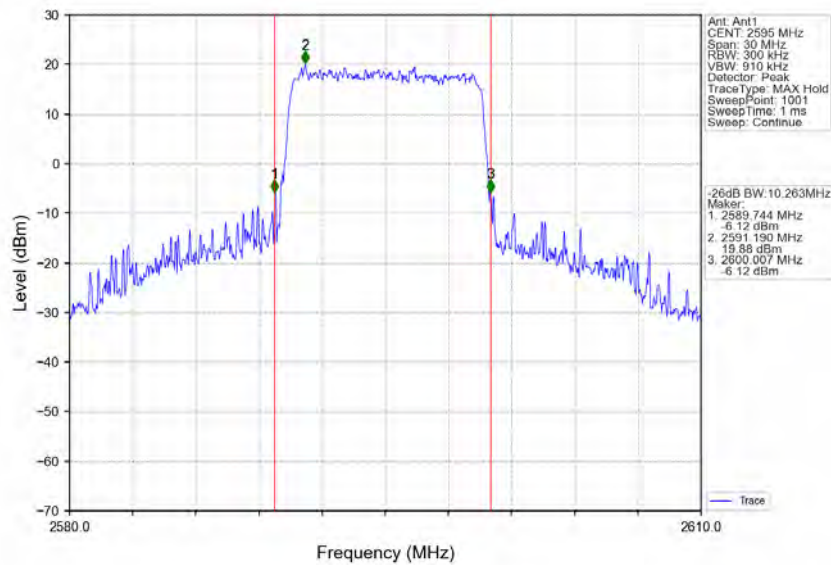
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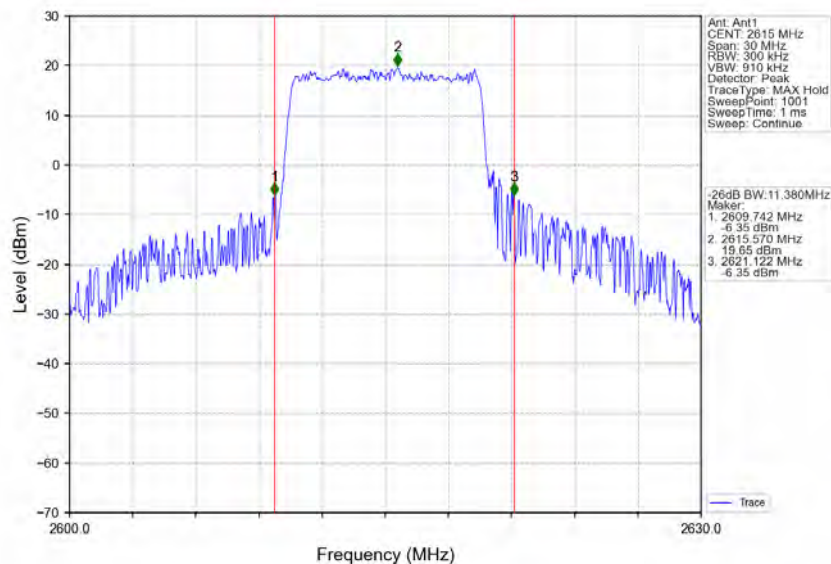
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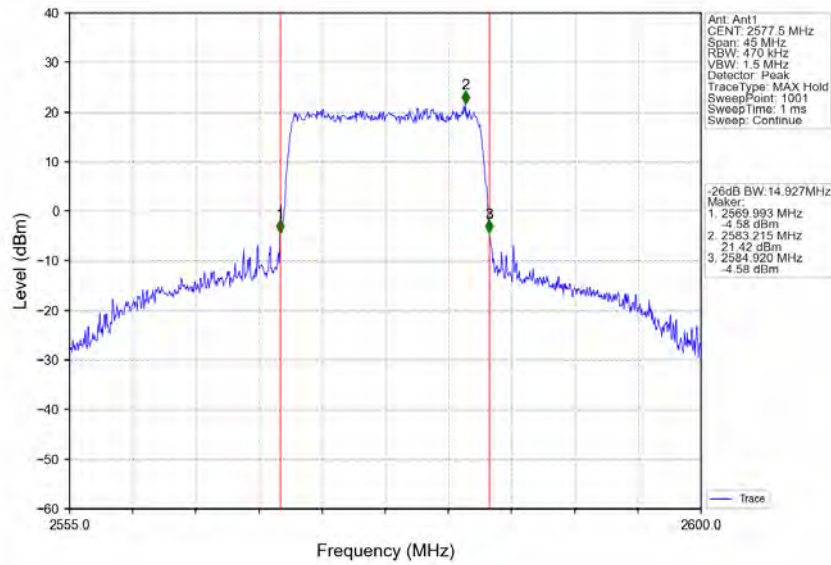
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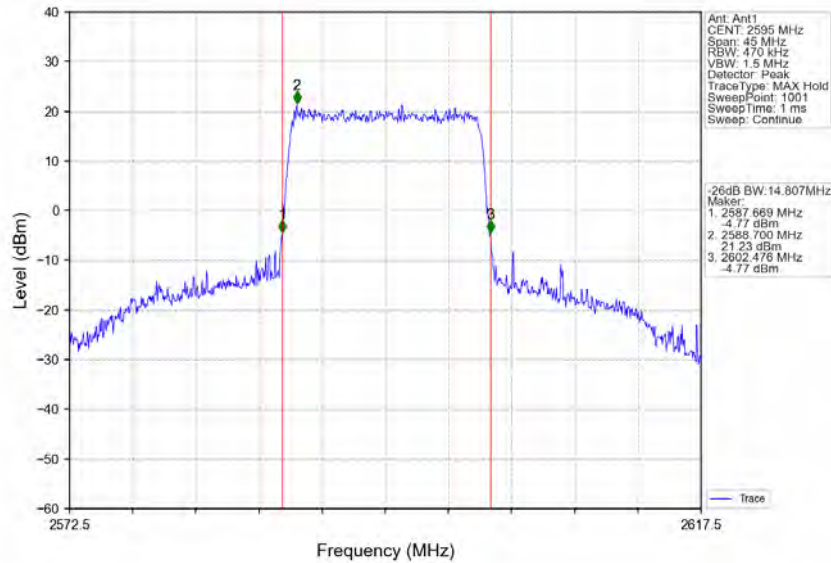
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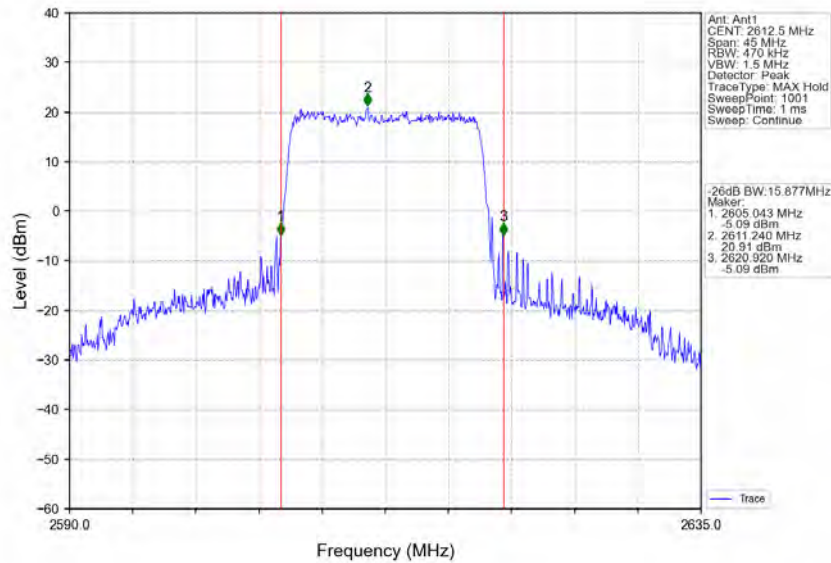
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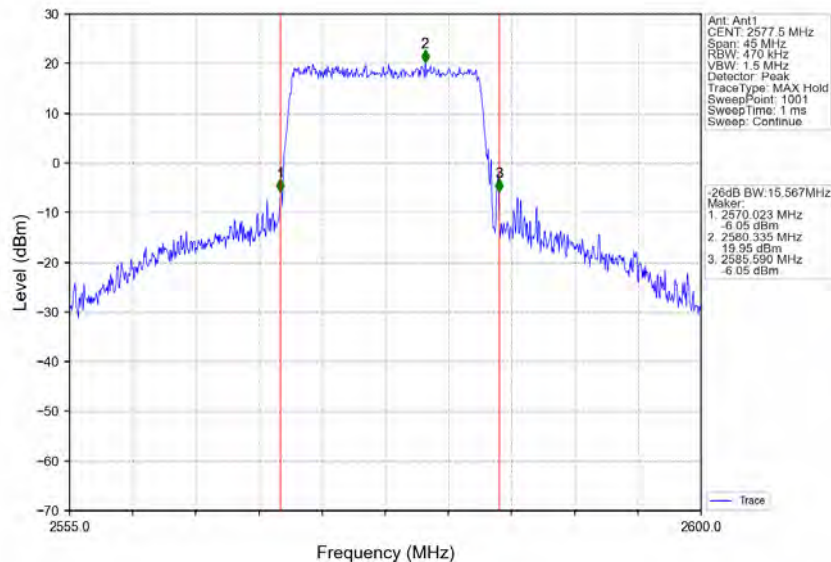
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Band38\_15MHz\_QPSK\_HCH\_2612.5MHz\_RB\_75\_0\_NTNV



Band38\_15MHz\_16QAM\_LCH\_2577.5MHz\_RB\_75\_0\_NTNV



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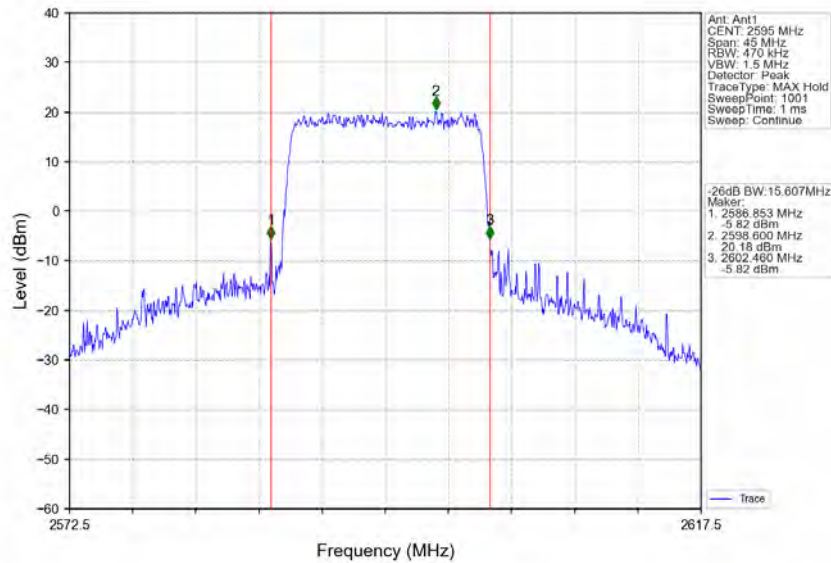
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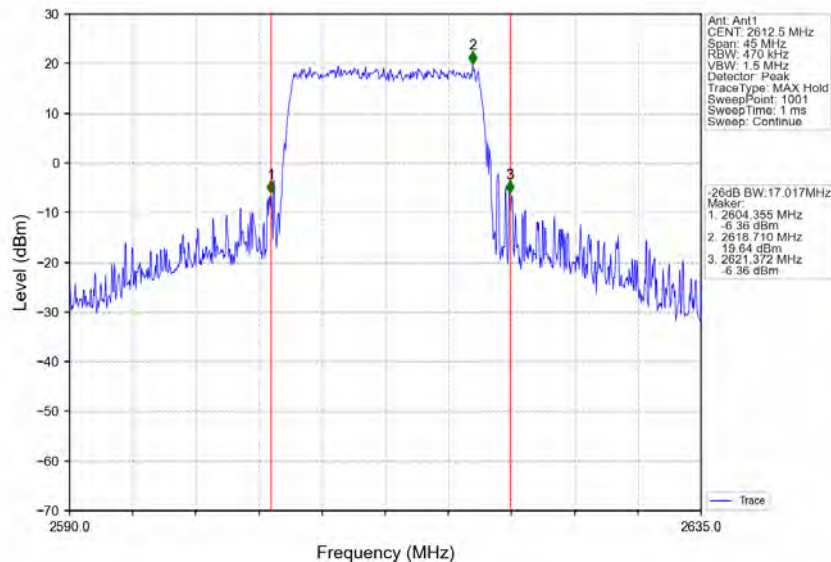
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Band38\_15MHz\_16QAM\_MCH\_2595MHz\_RB\_75\_0\_NTNV



Band38\_15MHz\_16QAM\_HCH\_2612.5MHz\_RB\_75\_0\_NTNV



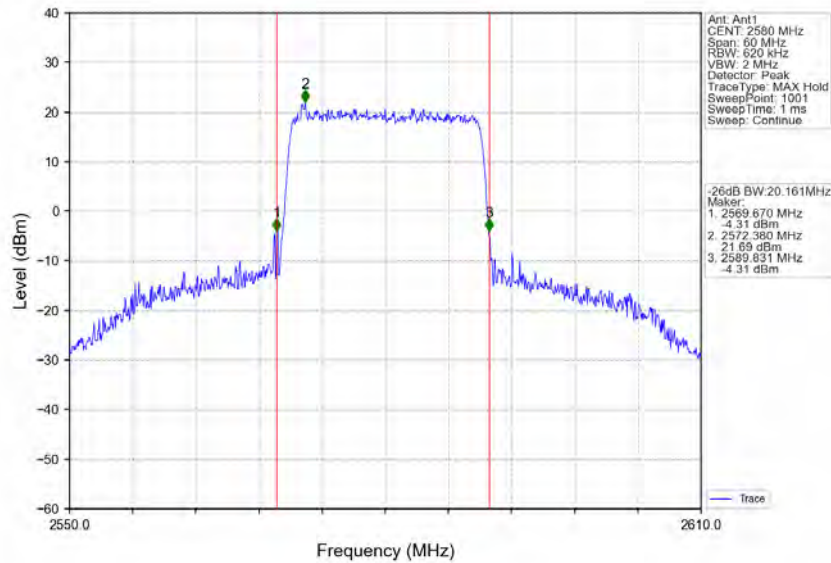
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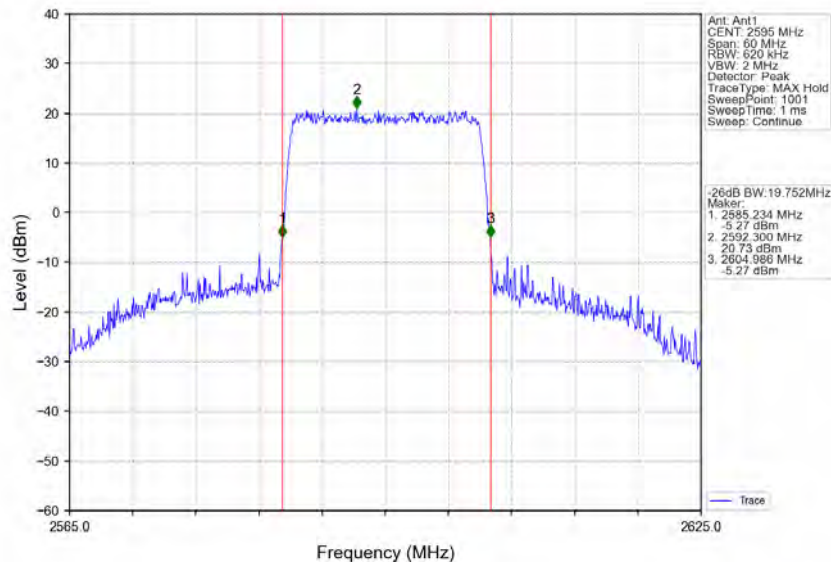
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Band38\_20MHz\_QPSK\_LCH\_2580MHz\_RB\_100\_0\_NTNV



Band38\_20MHz\_QPSK\_MCH\_2595MHz\_RB\_100\_0\_NTNV



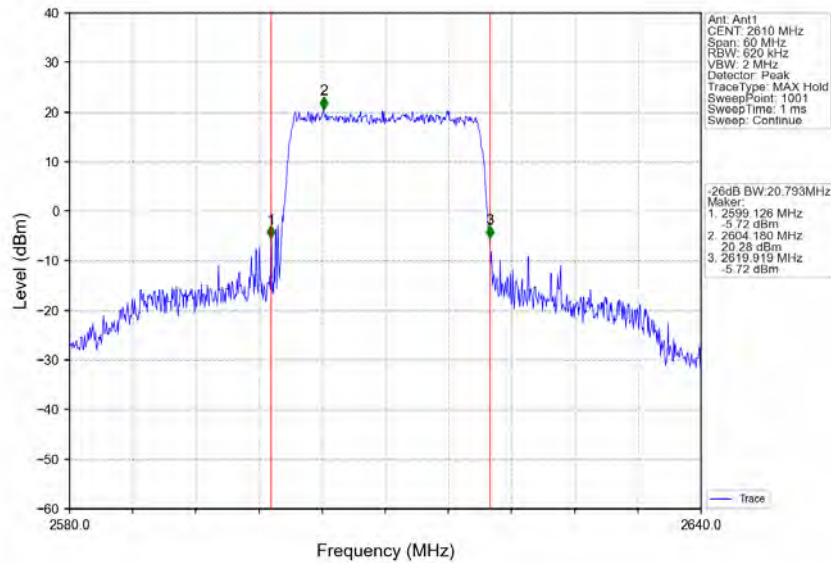
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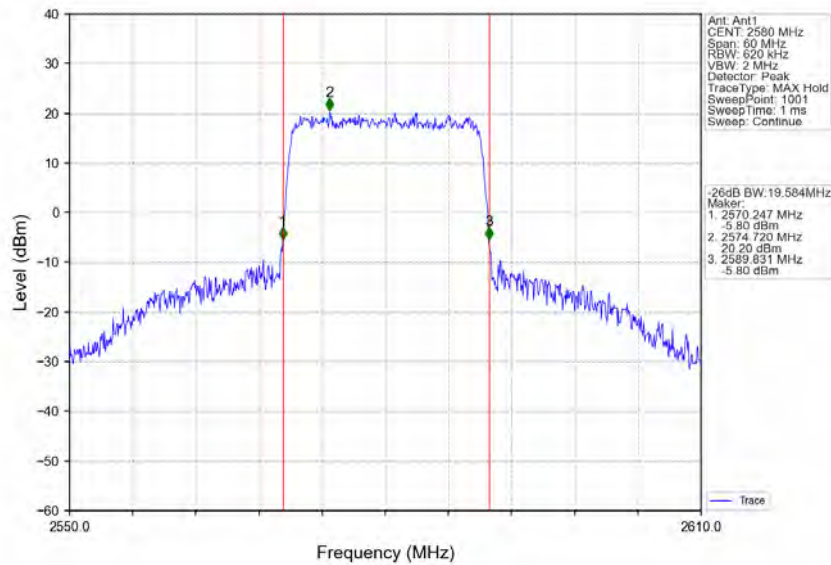
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Band38\_20MHz\_QPSK\_HCH\_2610MHz\_RB\_100\_0\_NTNV



Band38\_20MHz\_16QAM\_LCH\_2580MHz\_RB\_100\_0\_NTNV



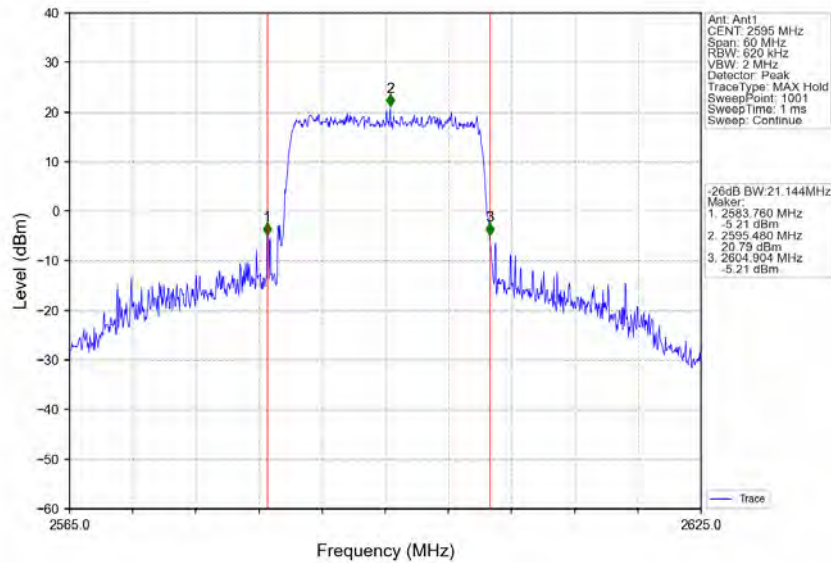
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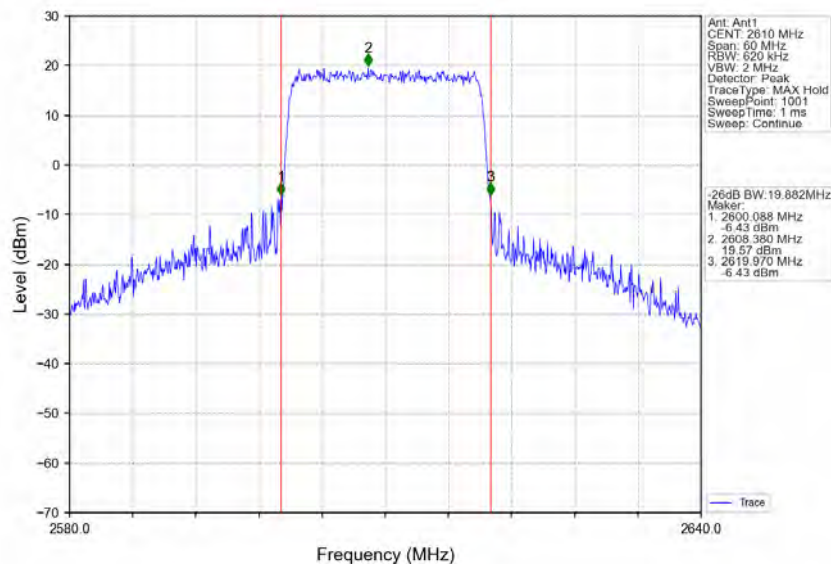
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Band38\_20MHz\_16QAM\_MCH\_2595MHz\_RB\_100\_0\_NTNV



Band38\_20MHz\_16QAM\_HCH\_2610MHz\_RB\_100\_0\_NTNV



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## 4. Peak-Average Ratio

### 4.1 B38\_5MHz

#### 4.1.1 Test Result

Band: 38 / Bandwidth: 5MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2572.5	25	0	7.14	<=13	Pass
	2595	25	0	7.47	<=13	Pass
	2617.5	25	0	7.51	<=13	Pass
16QAM	2572.5	25	0	7.87	<=13	Pass
	2595	25	0	8.01	<=13	Pass
	2617.5	25	0	8.15	<=13	Pass



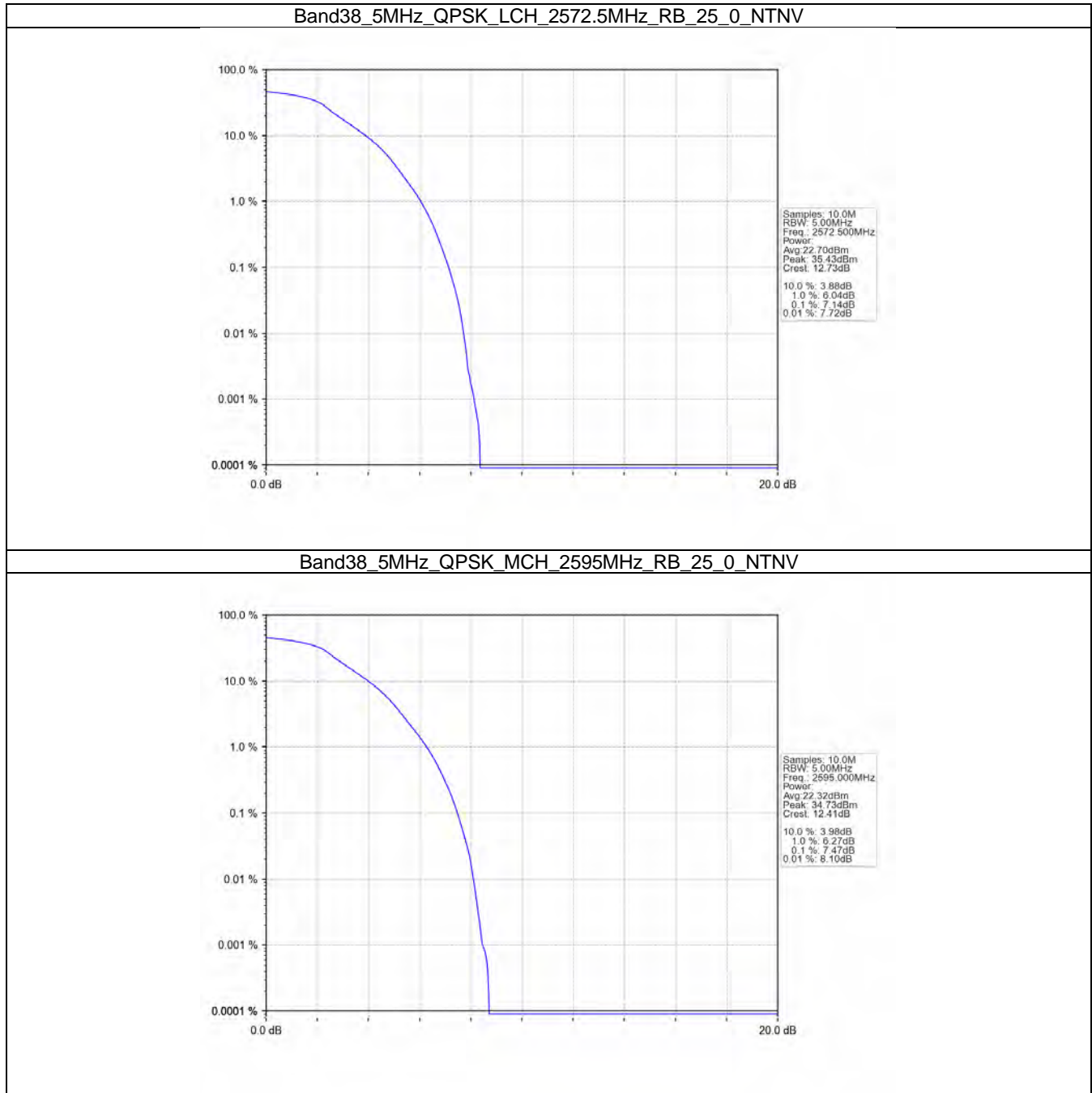
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4.1.2 Test Graph



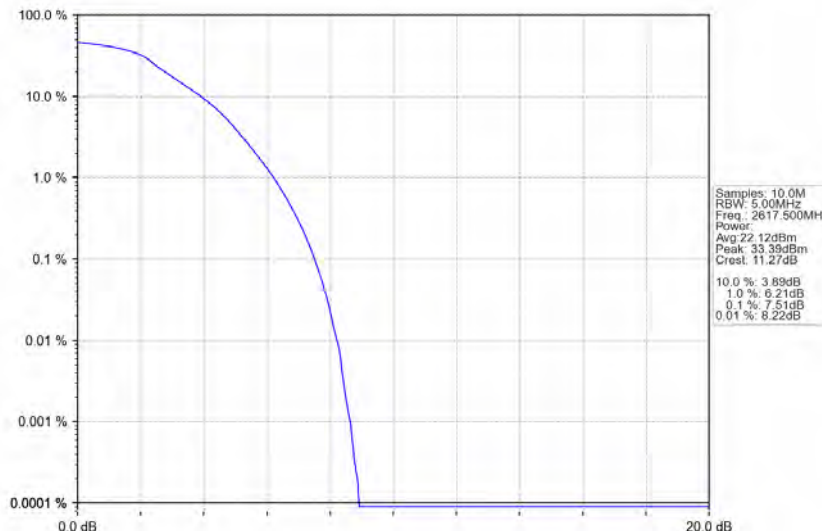
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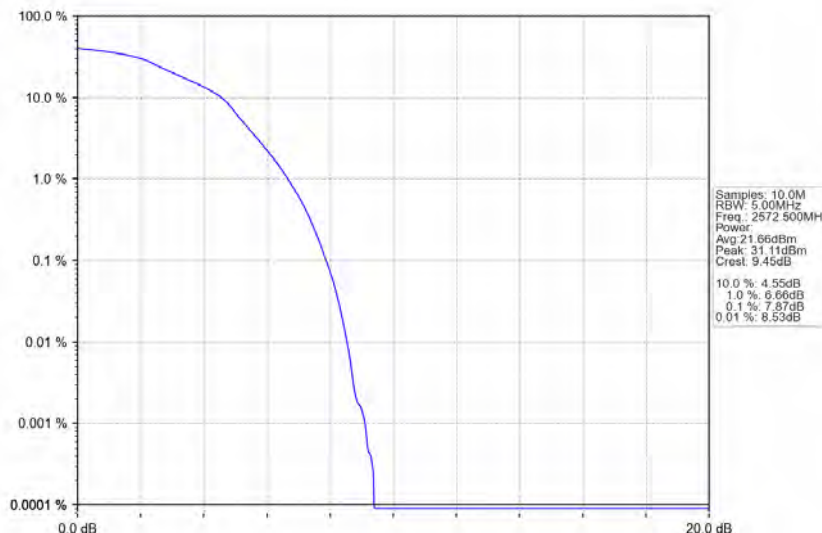
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Band38\_5MHz\_QPSK\_HCH\_2617.5MHz\_RB\_25\_0\_NTNV



Band38\_5MHz\_16QAM\_LCH\_2572.5MHz\_RB\_25\_0\_NTNV

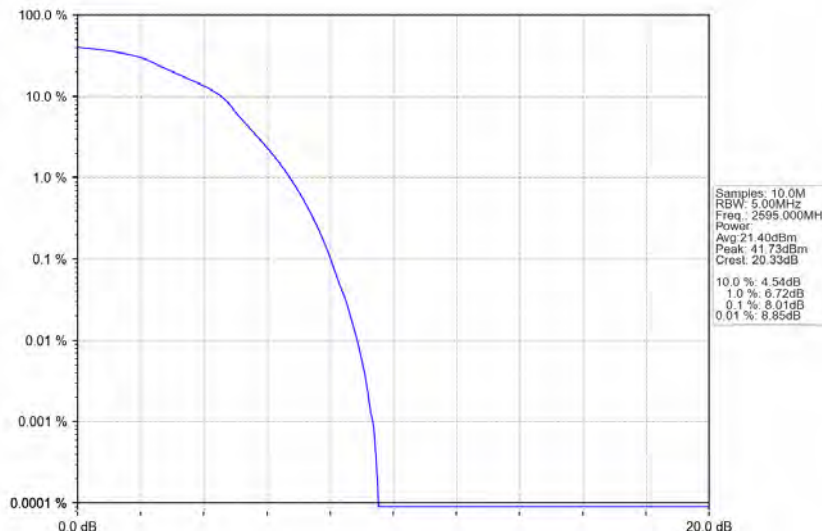


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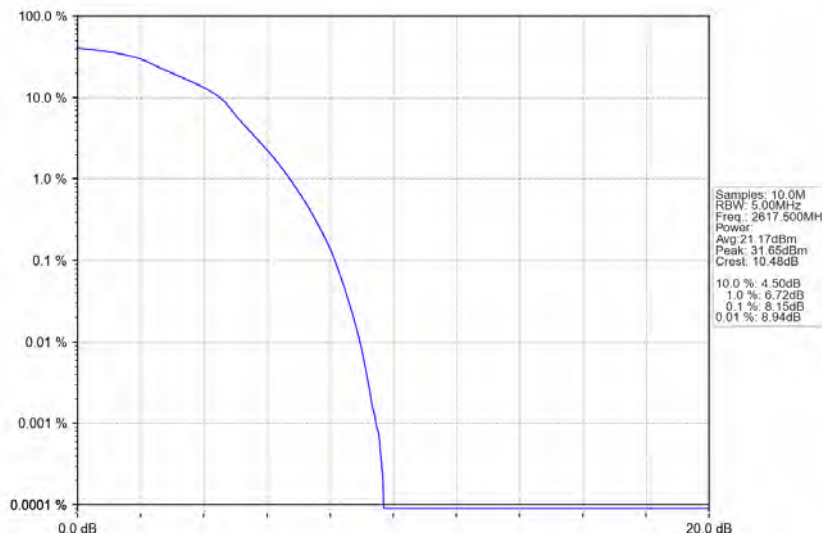
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Band38\_5MHz\_16QAM\_MCH\_2595MHz\_RB\_25\_0\_NTNV



Band38\_5MHz\_16QAM\_HCH\_2617.5MHz\_RB\_25\_0\_NTNV



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4.2 B38\_10MHz

4.2.1 Test Result

Band: 38 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2575	50	0	7.22	<=13	Pass
	2595	50	0	7.33	<=13	Pass
	2615	50	0	7.48	<=13	Pass
16QAM	2575	50	0	7.88	<=13	Pass
	2595	50	0	8.04	<=13	Pass
	2615	50	0	8.06	<=13	Pass



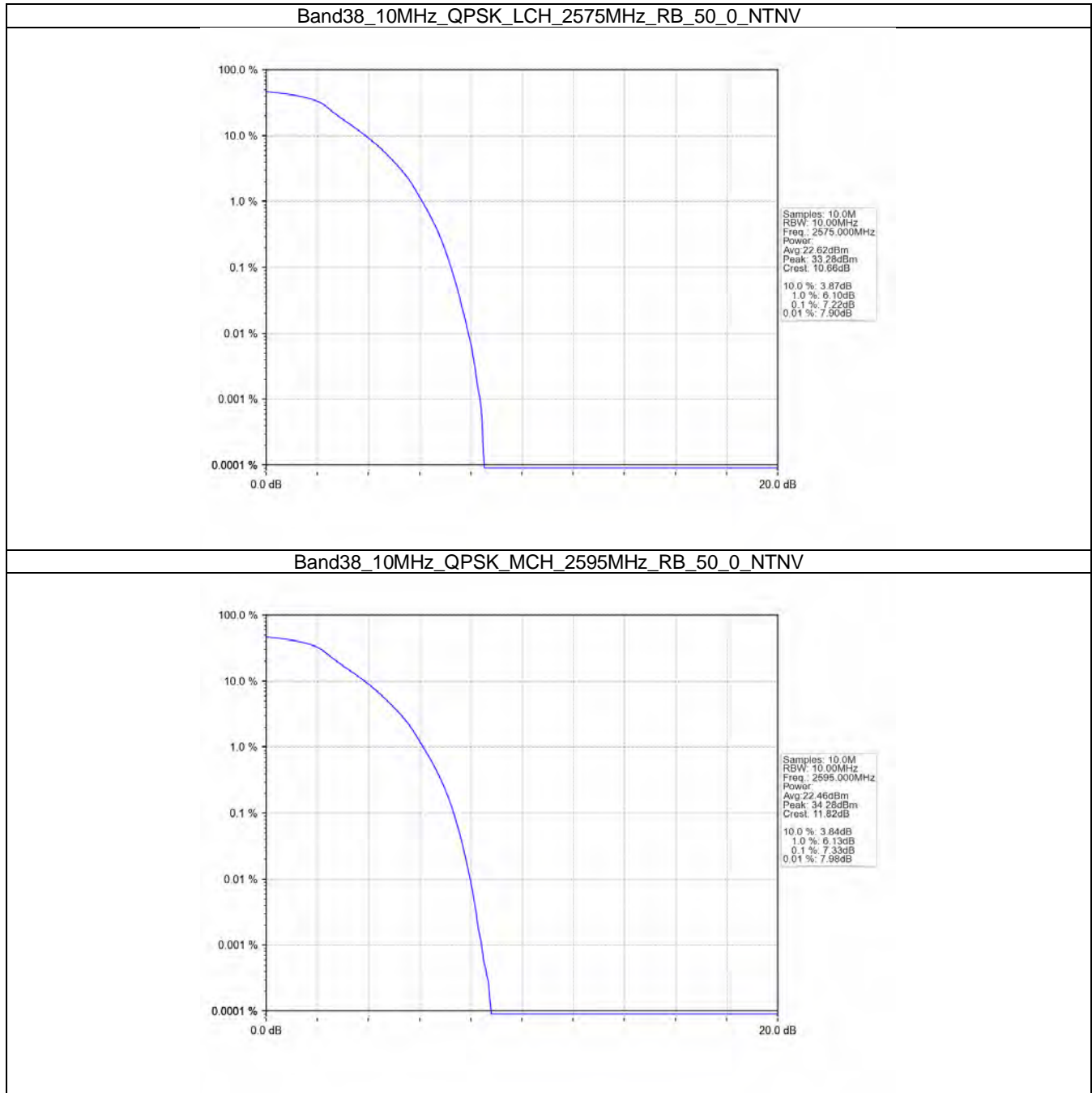
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4.2.2 Test Graph



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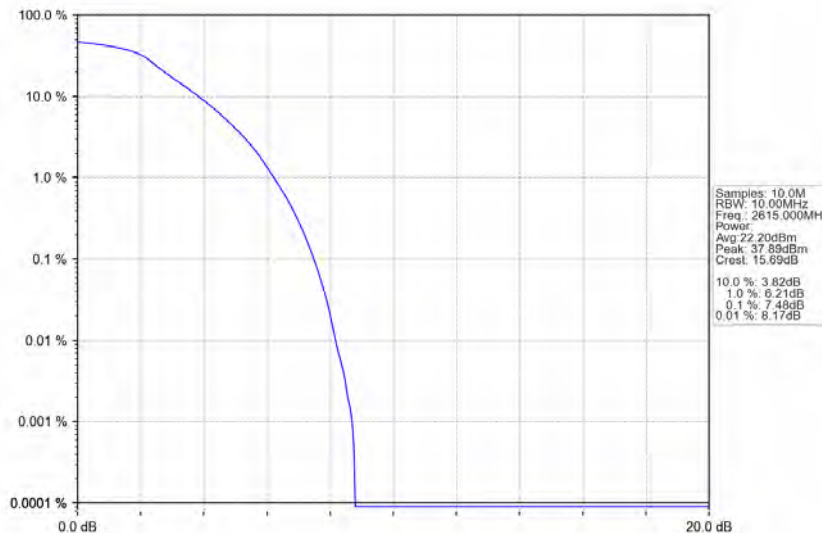
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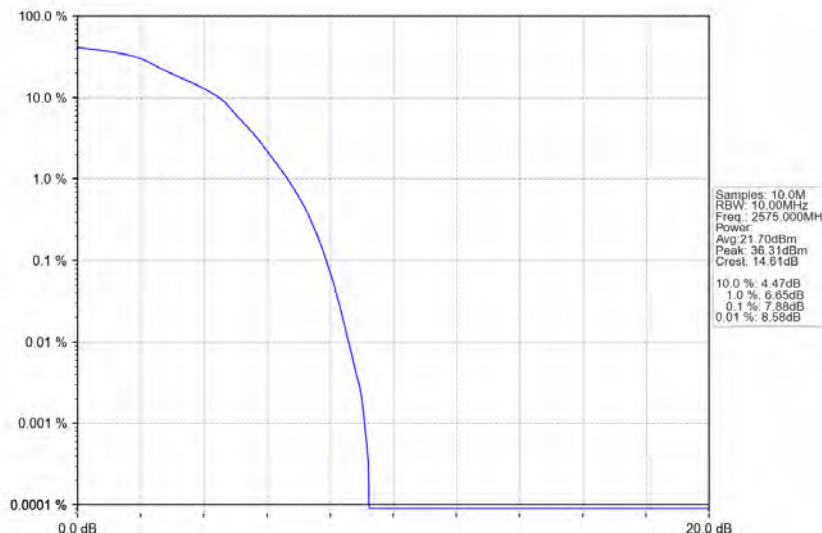
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Band38\_10MHz\_16QAM\_LCH\_2575MHz\_RB\_50\_0\_NTNV

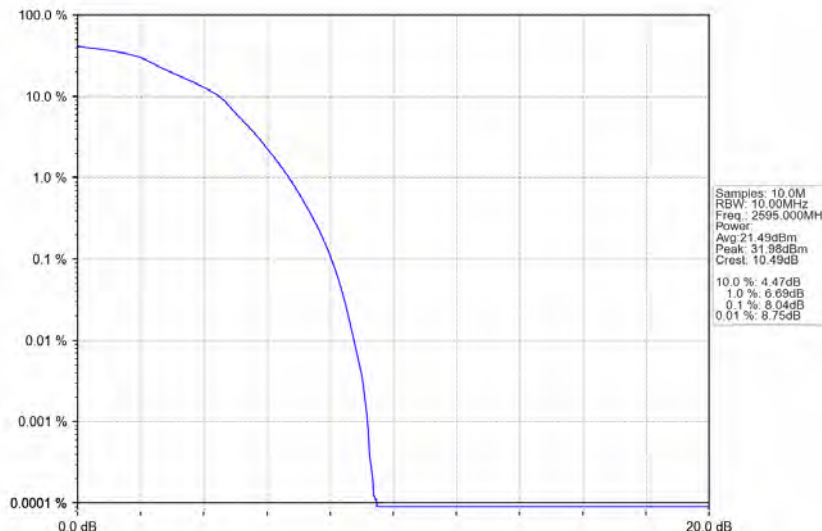


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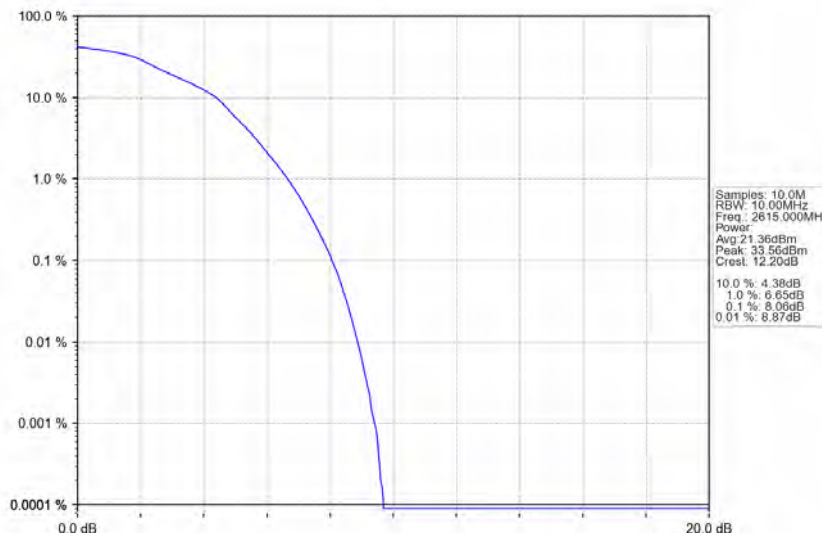
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Band38\_10MHz\_16QAM\_HCH\_2615MHz\_RB\_50\_0\_NTNV



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4.3 B38\_15MHz

4.3.1 Test Result

Band: 38 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2577.5	75	0	7.38	<=13	Pass
	2595	75	0	7.51	<=13	Pass
	2612.5	75	0	7.69	<=13	Pass
16QAM	2577.5	75	0	8.04	<=13	Pass
	2595	75	0	8.05	<=13	Pass
	2612.5	75	0	8.17	<=13	Pass

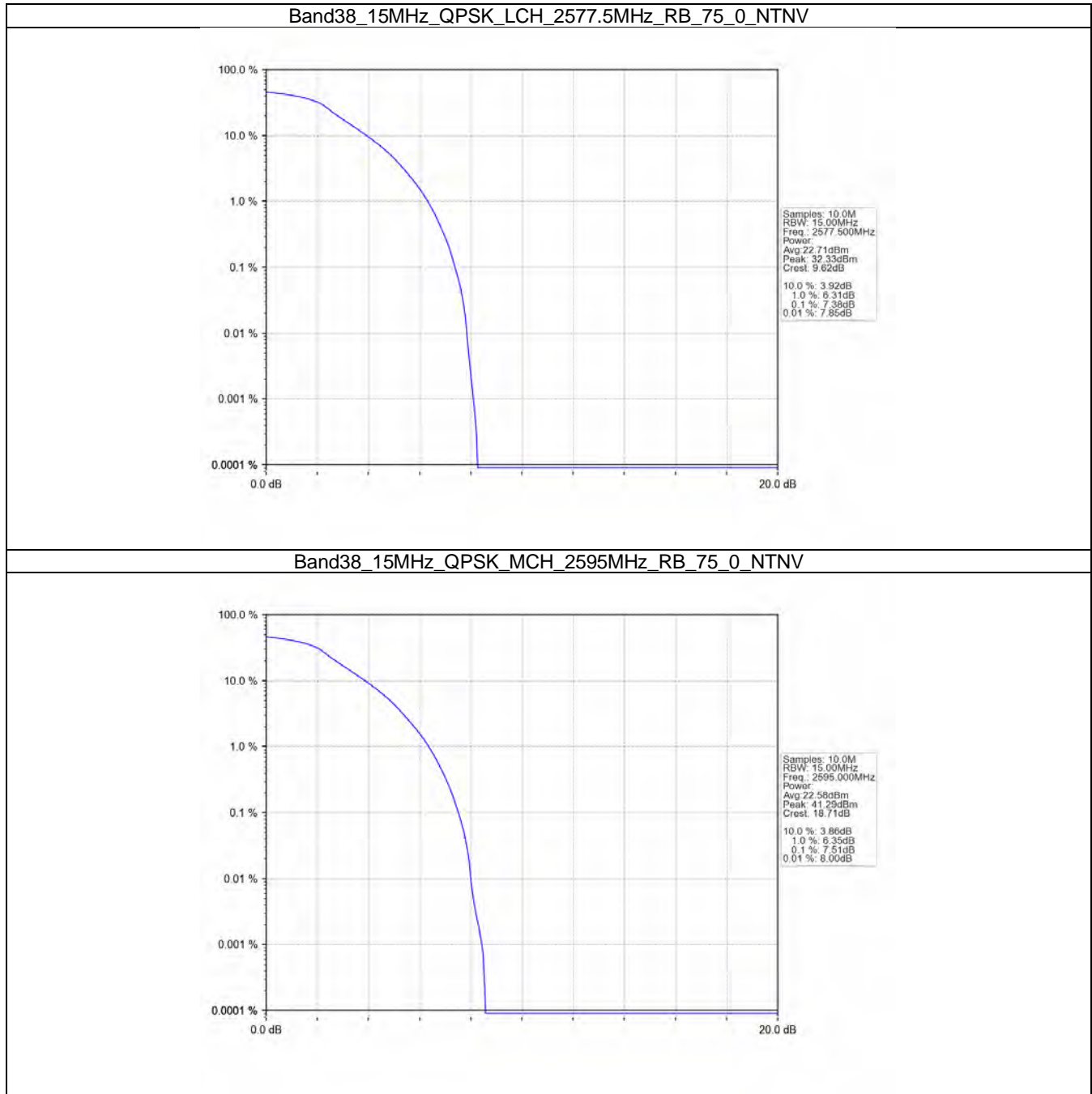


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4.3.2 Test Graph



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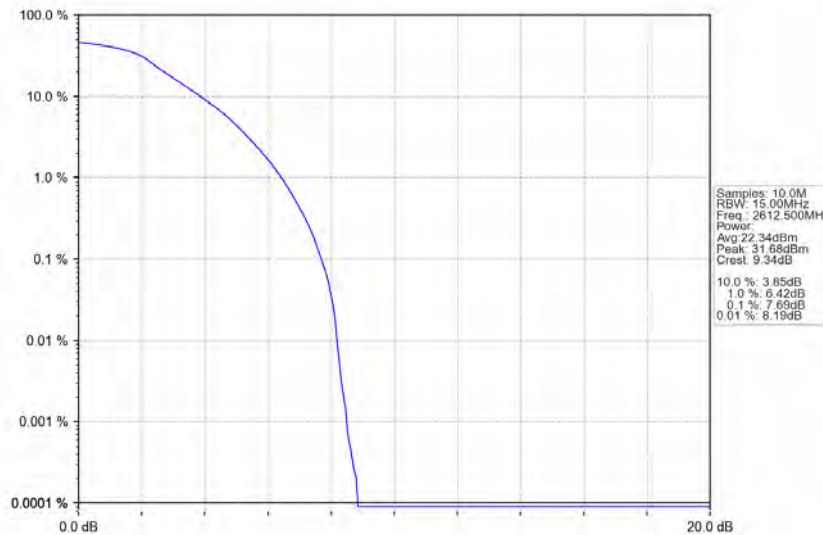
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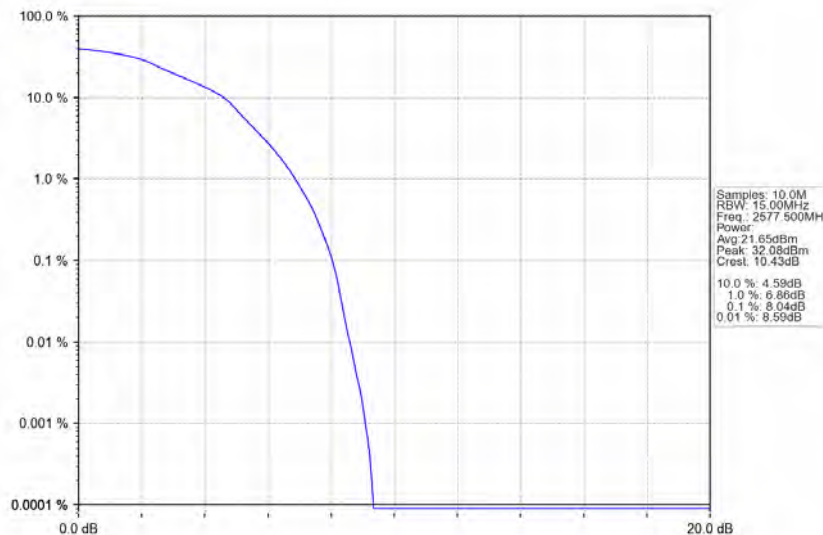
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Band38\_15MHz\_QPSK\_HCH\_2612.5MHz\_RB\_75\_0\_NTNV



Band38\_15MHz\_16QAM\_LCH\_2577.5MHz\_RB\_75\_0\_NTNV



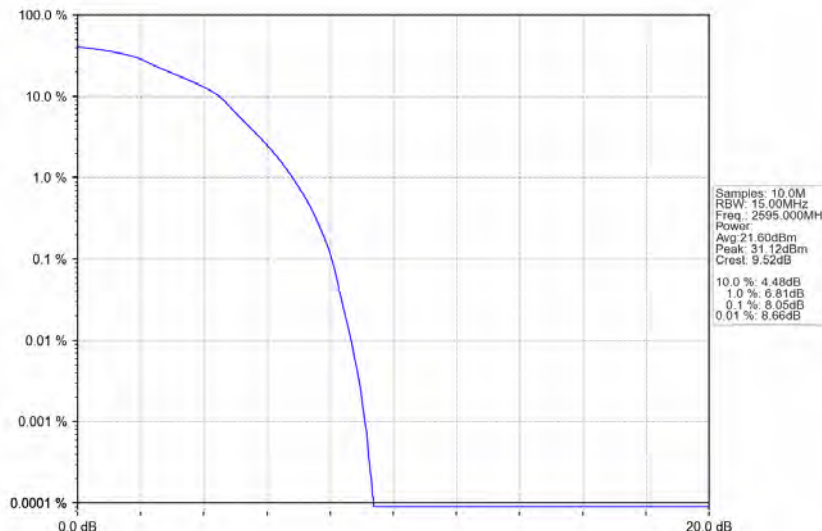
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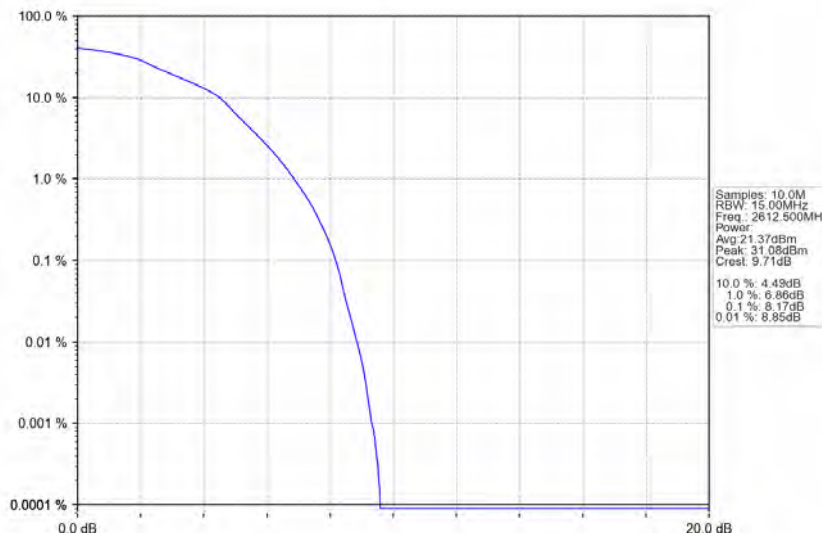
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Band38\_15MHz\_16QAM\_MCH\_2595MHz\_RB\_75\_0\_NTNV



Band38\_15MHz\_16QAM\_HCH\_2612.5MHz\_RB\_75\_0\_NTNV



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4.4 B38\_20MHz

4.4.1 Test Result

Band: 38 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2580	100	0	7.13	<=13	Pass
	2595	100	0	6.79	<=13	Pass
	2610	100	0	7.73	<=13	Pass
16QAM	2580	100	0	7.65	<=13	Pass
	2595	100	0	8.21	<=13	Pass
	2610	100	0	8.23	<=13	Pass



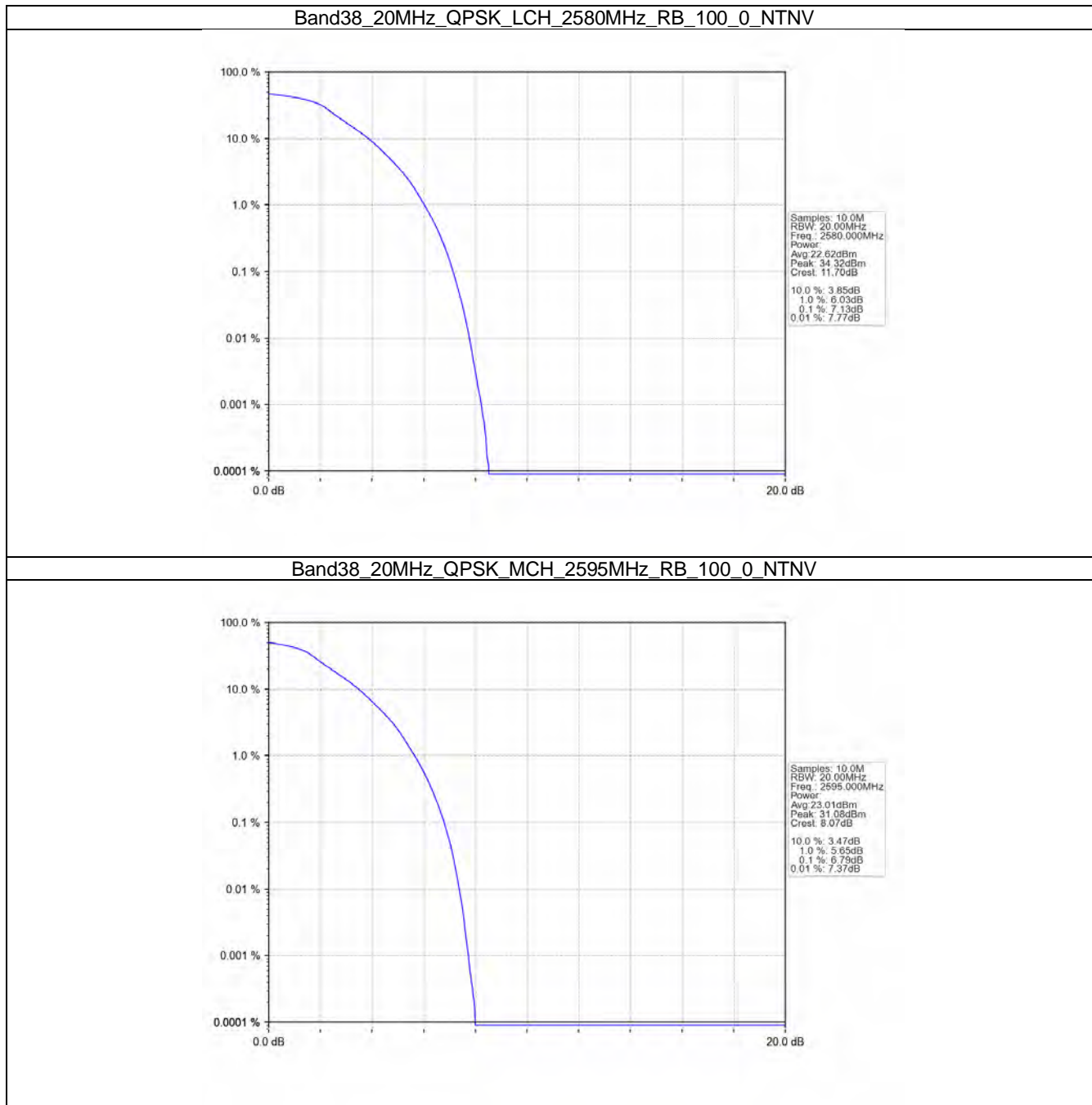
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4.4.2 Test Graph



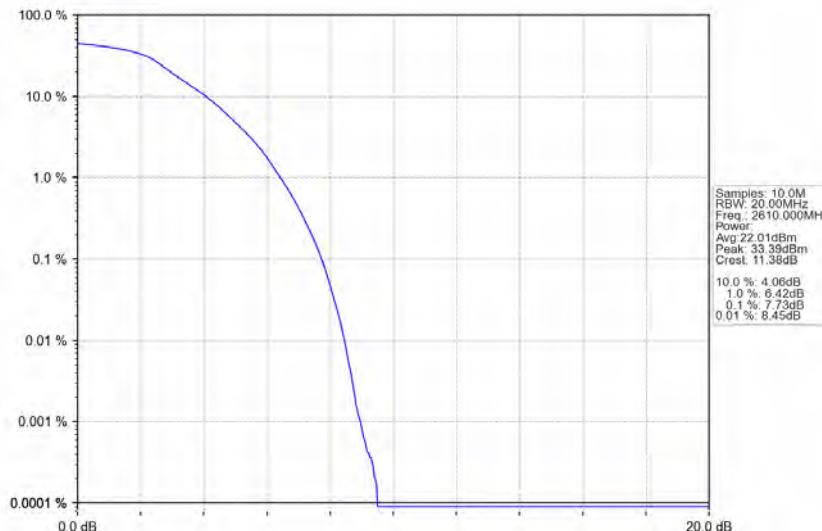
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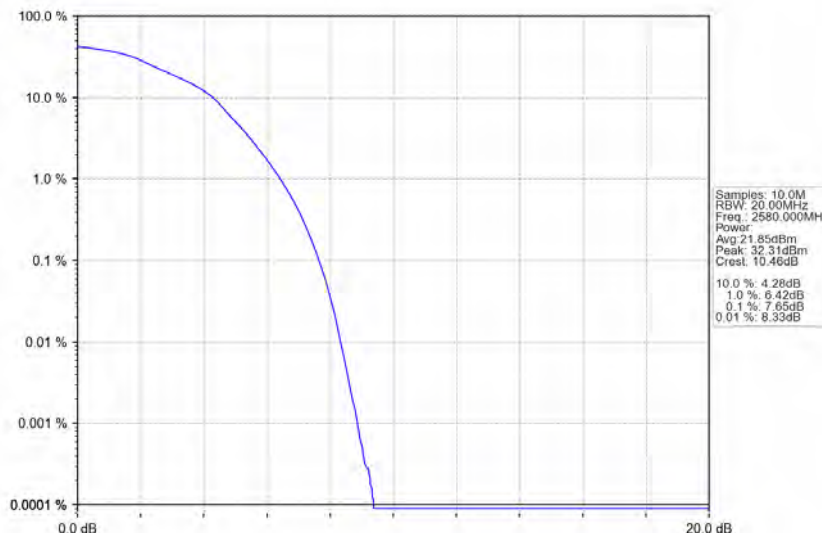
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Band38\_20MHz\_QPSK\_HCH\_2610MHz\_RB\_100\_0\_NTNV



Band38\_20MHz\_16QAM\_LCH\_2580MHz\_RB\_100\_0\_NTNV

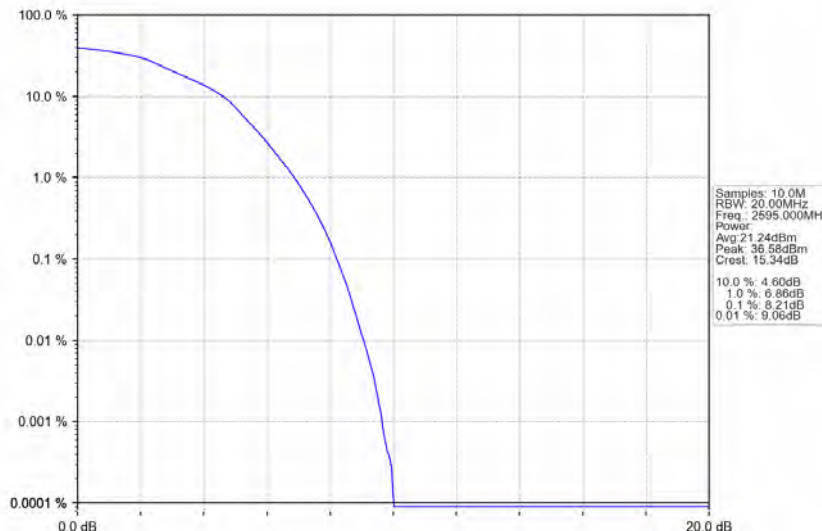


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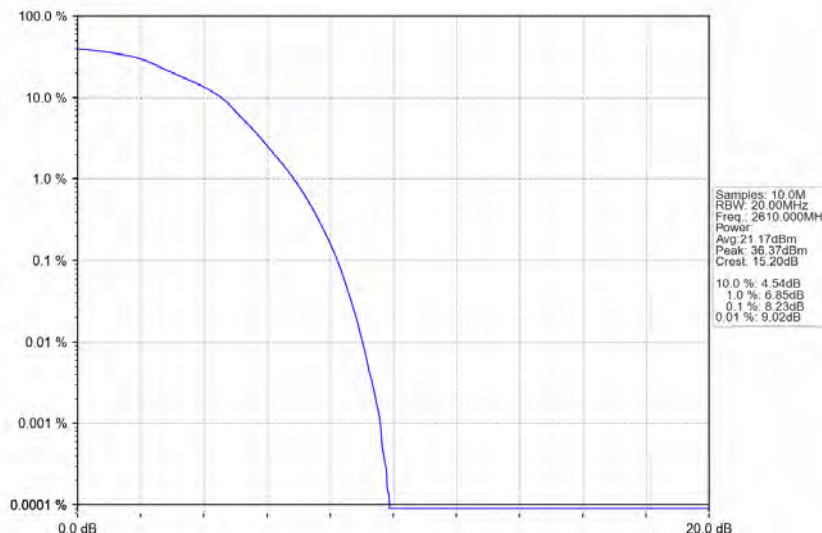
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Band38\_20MHz\_16QAM\_HCH\_2610MHz\_RB\_100\_0\_NTNV



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## 5. Spurious Emission

### 5.1 B38\_5MHz

#### 5.1.1 Test Result

Band: 38 / Bandwidth: 5MHz / NTV						
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
	2617.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
			0	Refer To Test Graph		Pass
16QAM	2572.5	1	0	Refer To Test Graph		Pass
		25	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
			0	Refer To Test Graph		Pass



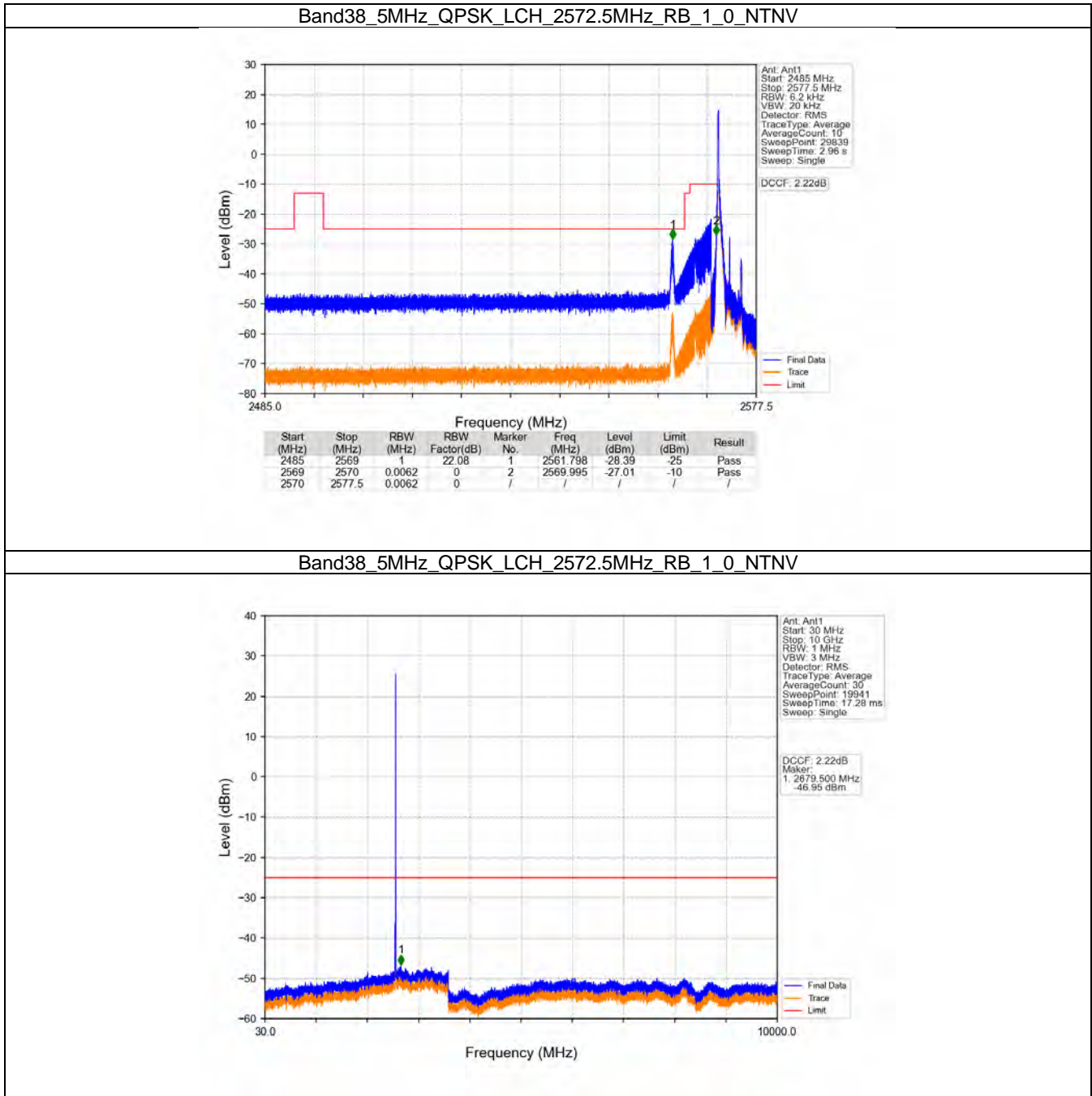
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5.1.2 Test Graph



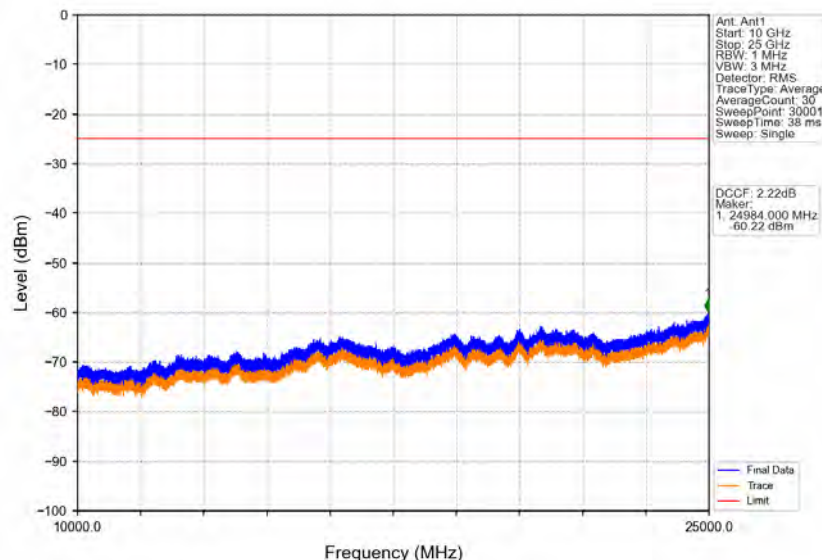
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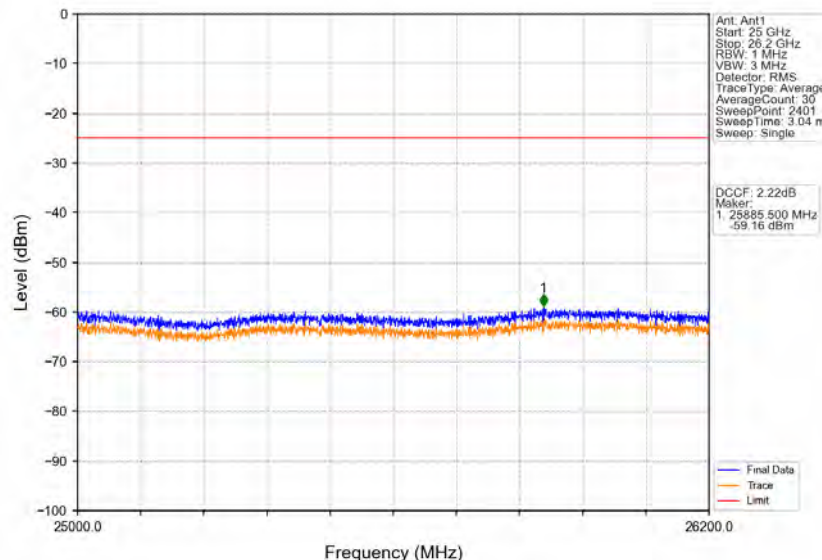
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Band38\_5MHz\_QPSK\_LCH\_2572.5MHz\_RB\_1\_0\_NTNV



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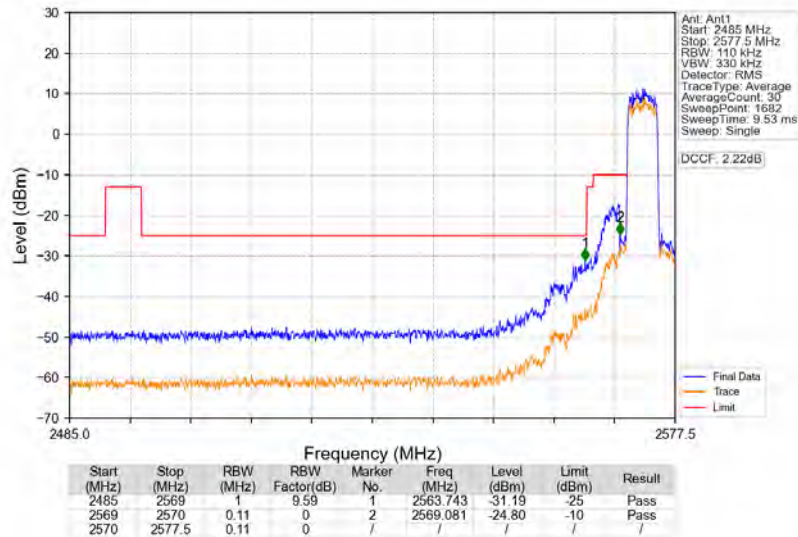
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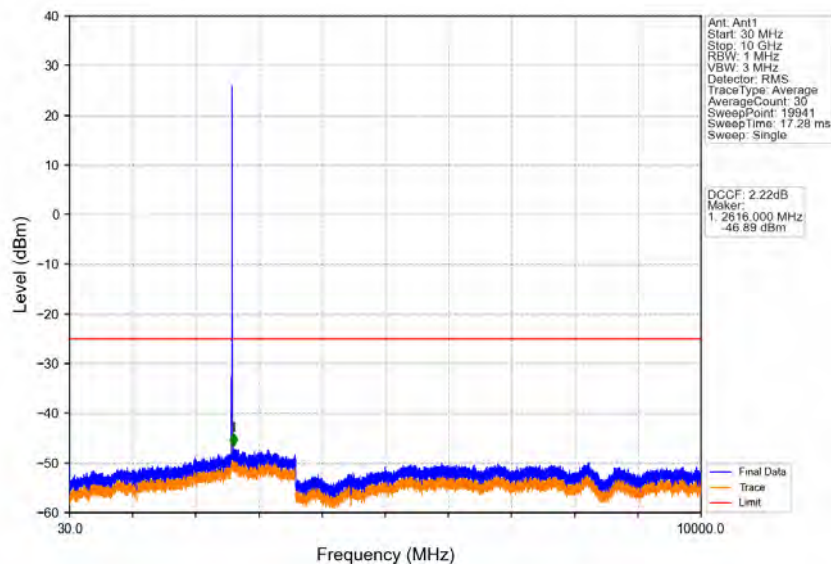
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### Band38\_5MHz\_QPSK\_MCH\_2595MHz\_RB\_1\_0\_NTNV



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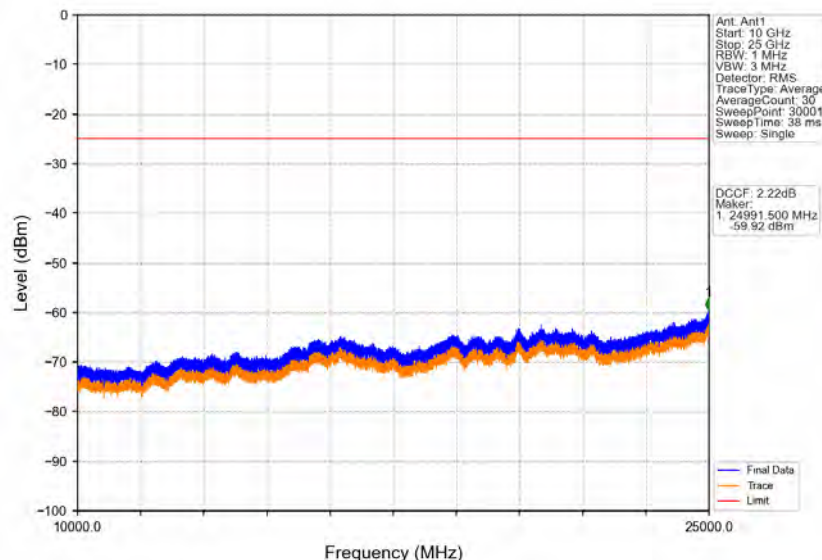
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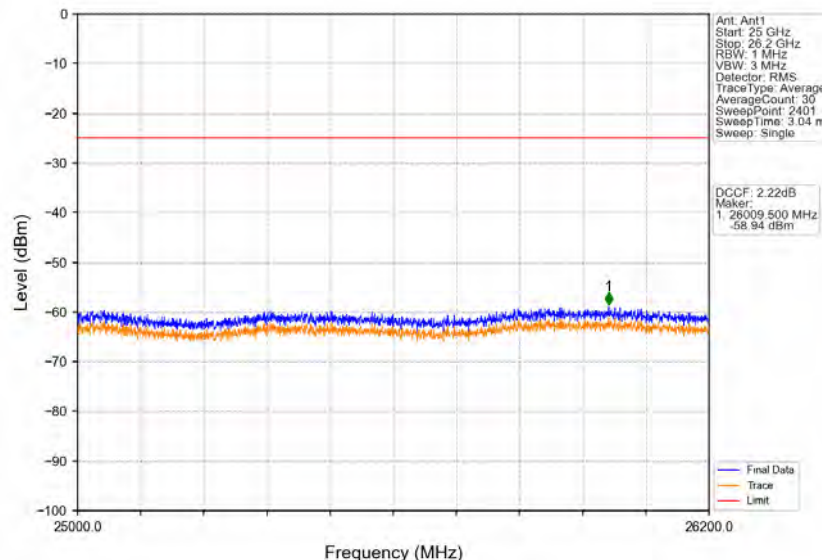




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Band38\_5MHz\_QPSK\_MCH\_2595MHz\_RB\_1\_0\_NTNV



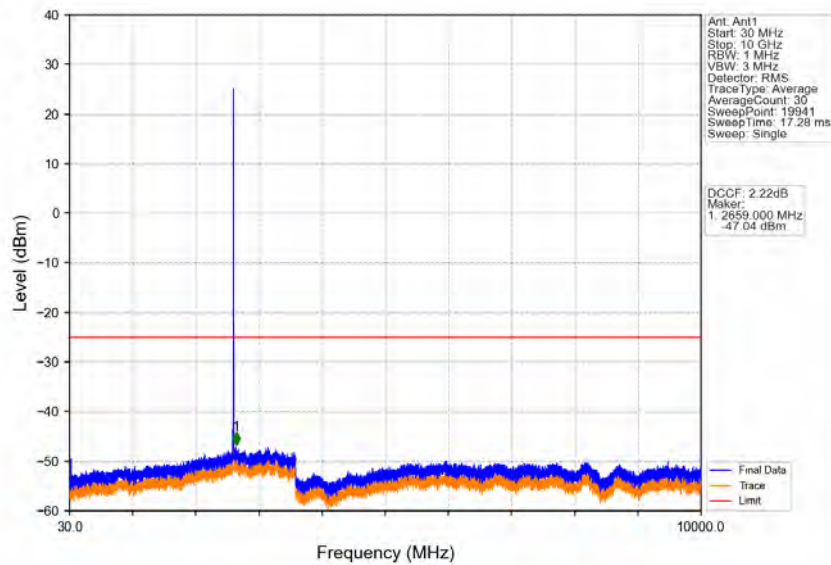
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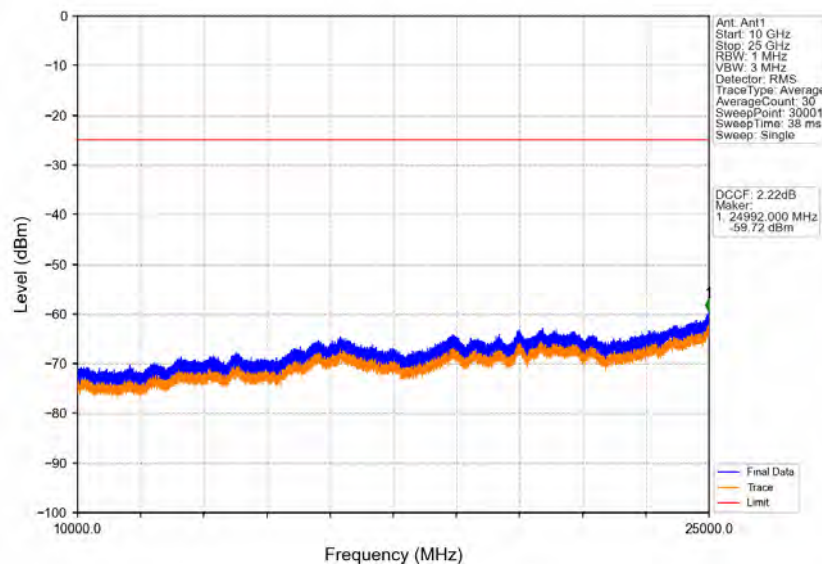
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Band38\_5MHz\_QPSK\_HCH\_2617.5MHz\_RB\_1\_0\_NTNV



Band38\_5MHz\_QPSK\_HCH\_2617.5MHz\_RB\_1\_0\_NTNV



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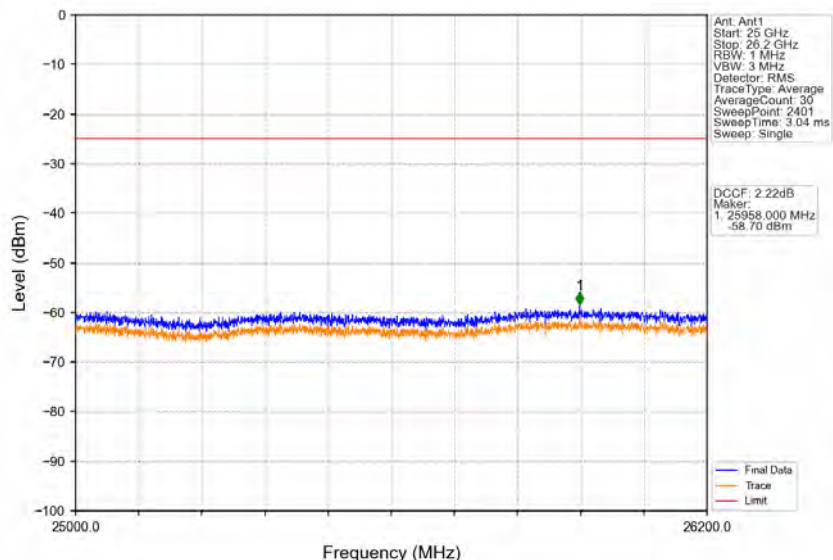
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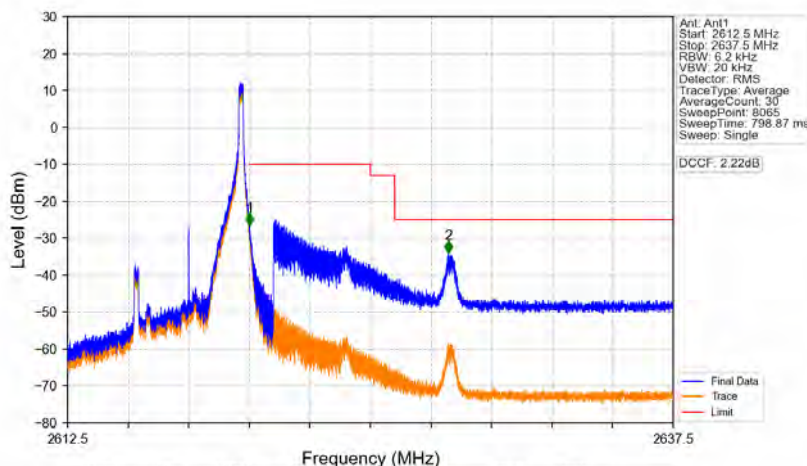
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Band38\_5MHz\_QPSK\_HCH\_2617.5MHz\_RB\_1\_0\_NTNV



Band38\_5MHz\_QPSK\_HCH\_2617.5MHz\_RB\_1\_24\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2612.5	2620	0.0062	0	/	/	/	/	/
2620	2621	0.0062	0	1	2620.015	-26.64	-10	Pass
2621	2637.5	1	22.08	2	2628.224	-33.97	-25	Pass

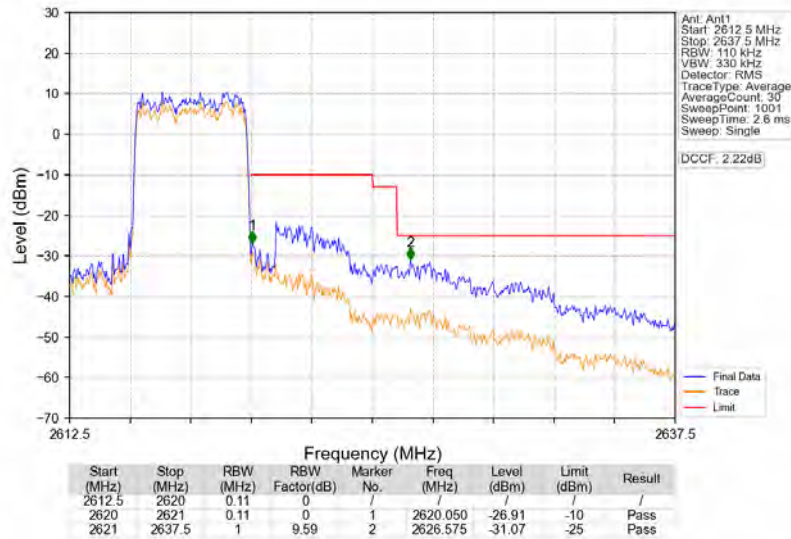


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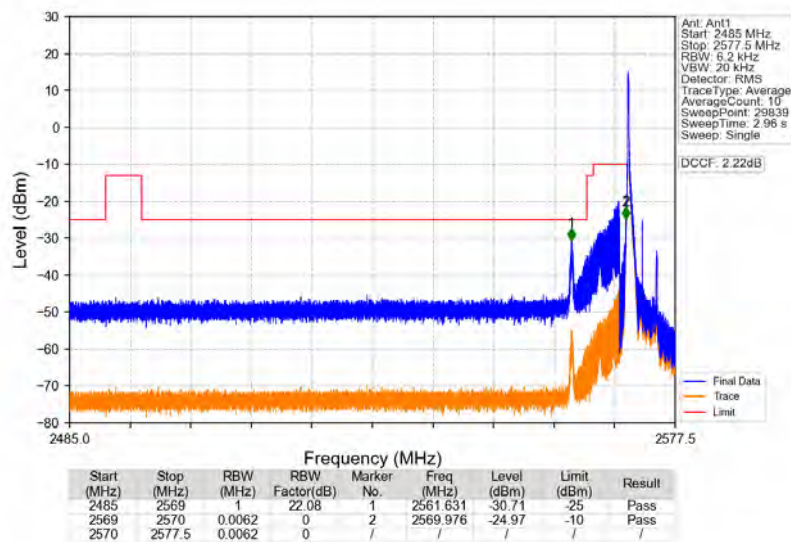
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### Band38\_5MHz\_QPSK\_HCH\_2617.5MHz\_RB\_25\_0\_NTNV



### Band38\_5MHz\_16QAM\_LCH\_2572.5MHz\_RB\_1\_0\_NTNV



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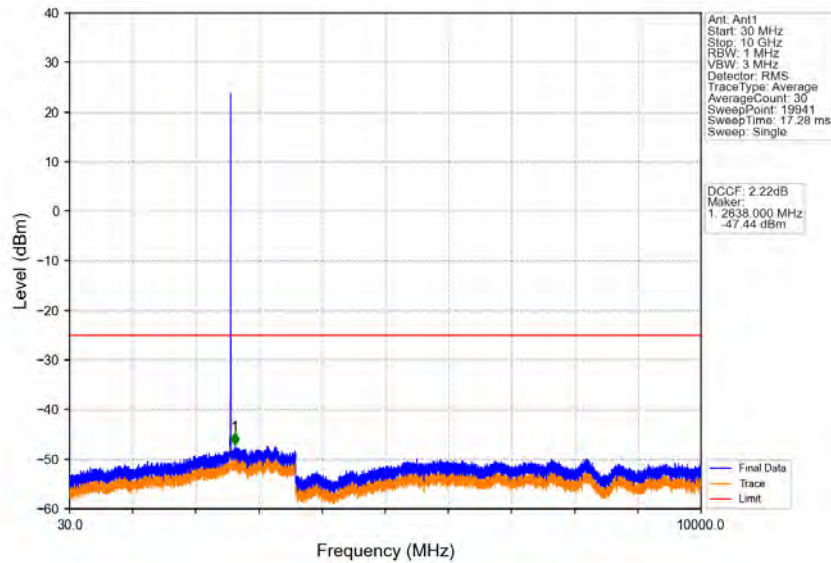
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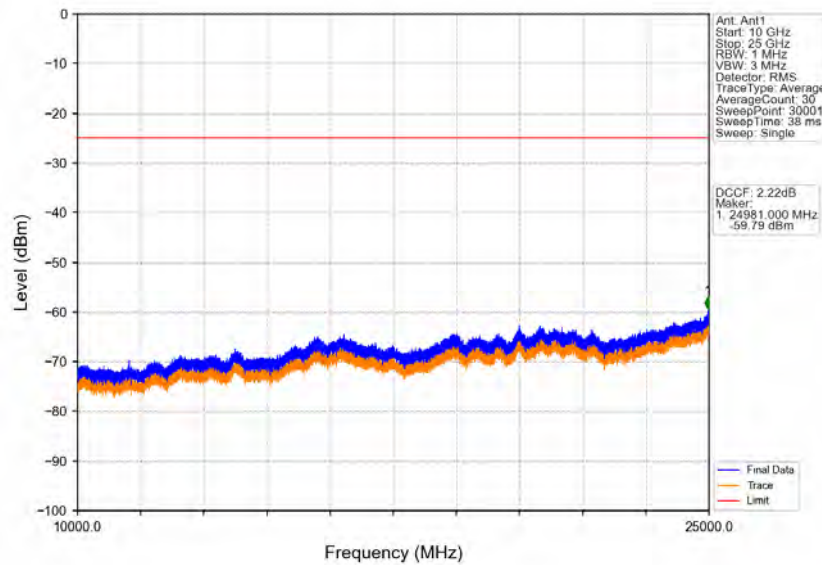


Compliance Certification Services (Kunshan) Inc.  
EMC Laboratory

Band38\_5MHz\_16QAM\_LCH\_2572.5MHz\_RB\_1\_0\_NTNV



Band38\_5MHz\_16QAM\_LCH\_2572.5MHz\_RB\_1\_0\_NTNV



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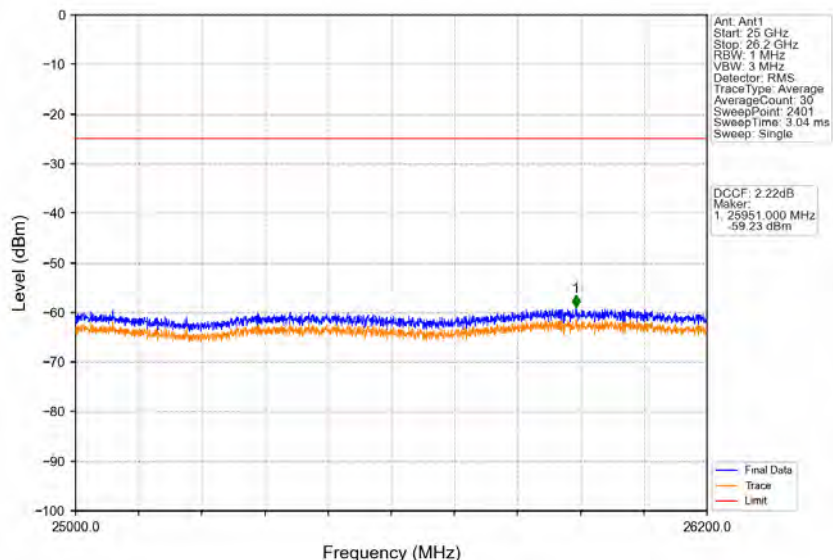
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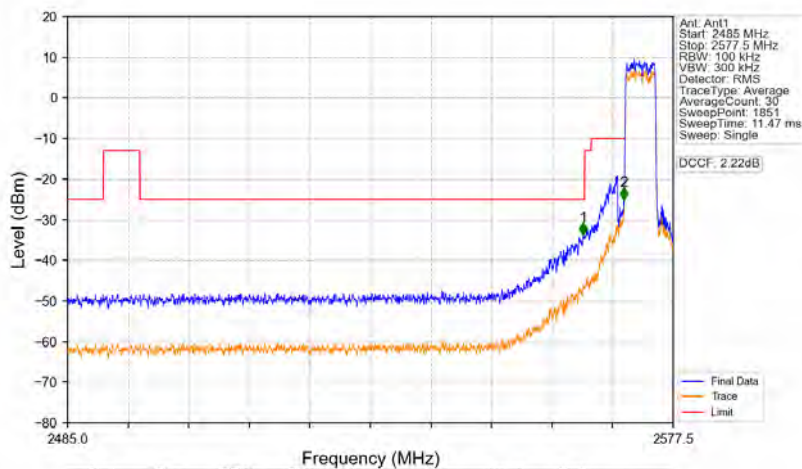
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Band38\_5MHz\_16QAM\_LCH\_2572.5MHz\_RB\_1\_0\_NTNV



Band38\_5MHz\_16QAM\_LCH\_2572.5MHz\_RB\_25\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2569	1	10	1	2563.750	-33.80	-25	Pass
2569	2570	0.1	0	2	2569.950	-25.17	-10	Pass
2570	2577.5	0.1	0	/	/	/	/	/

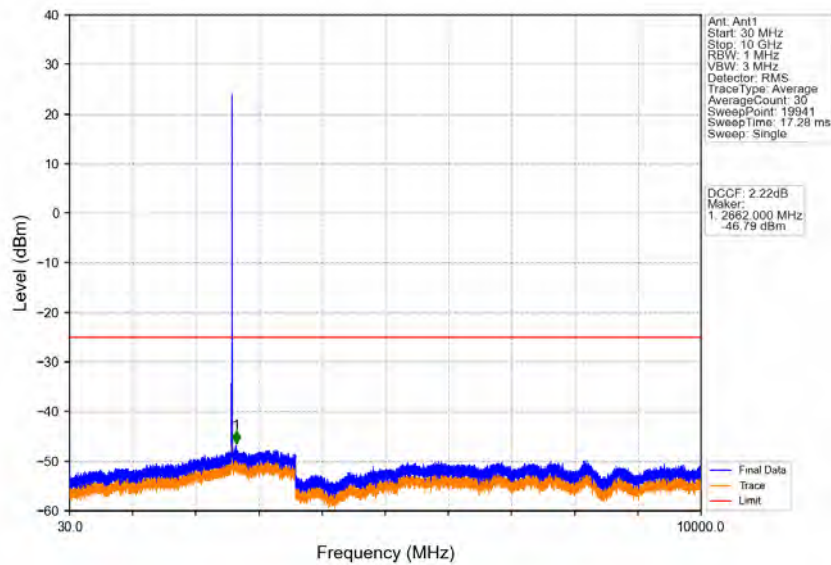


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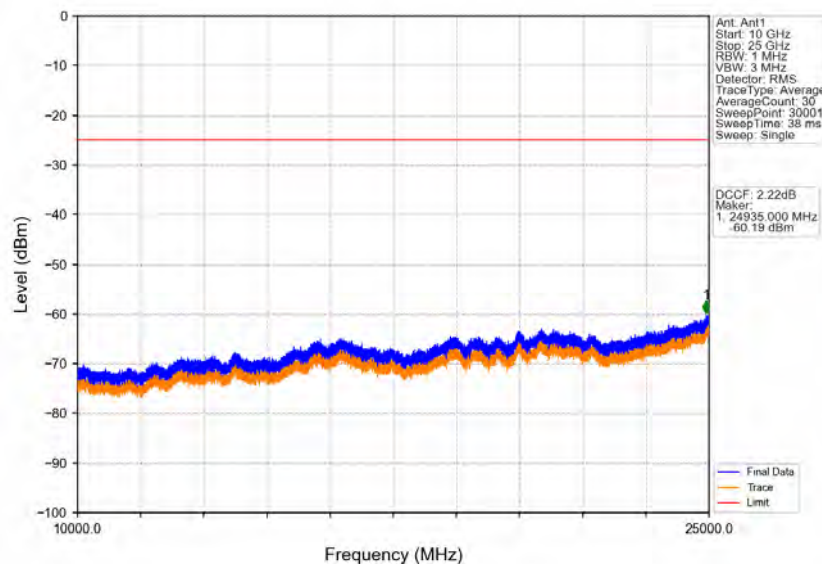
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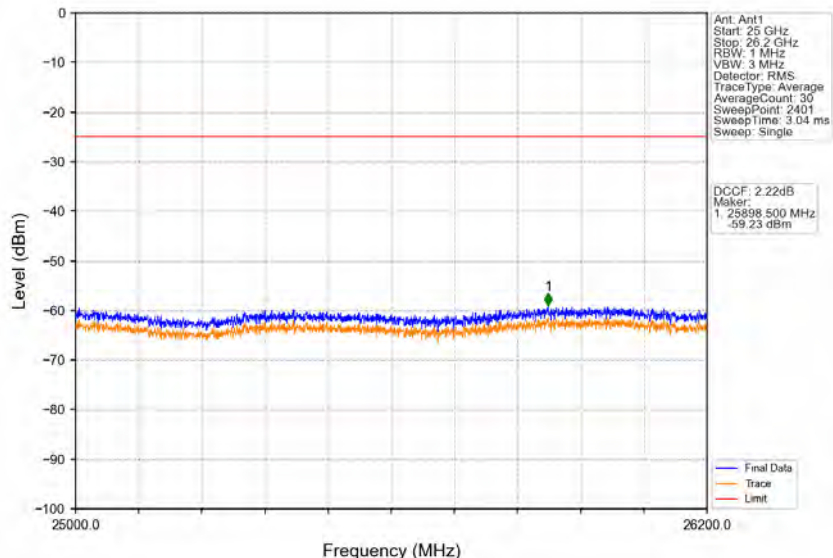
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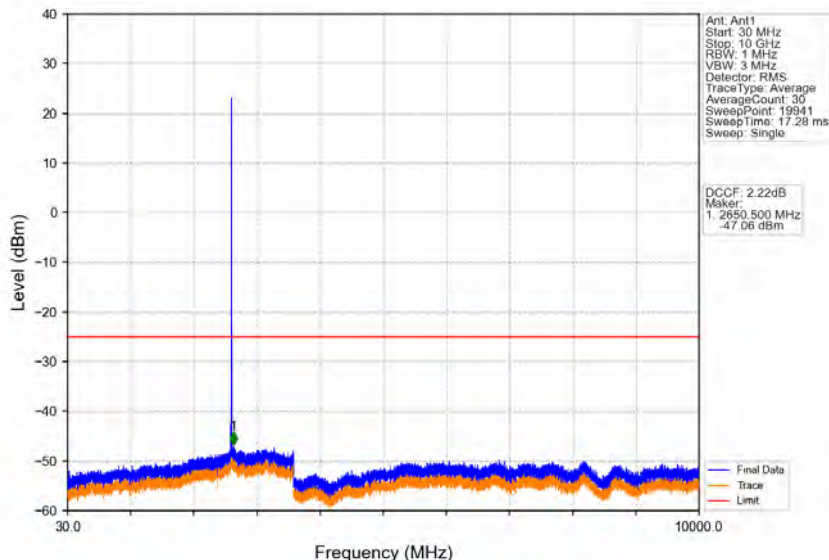
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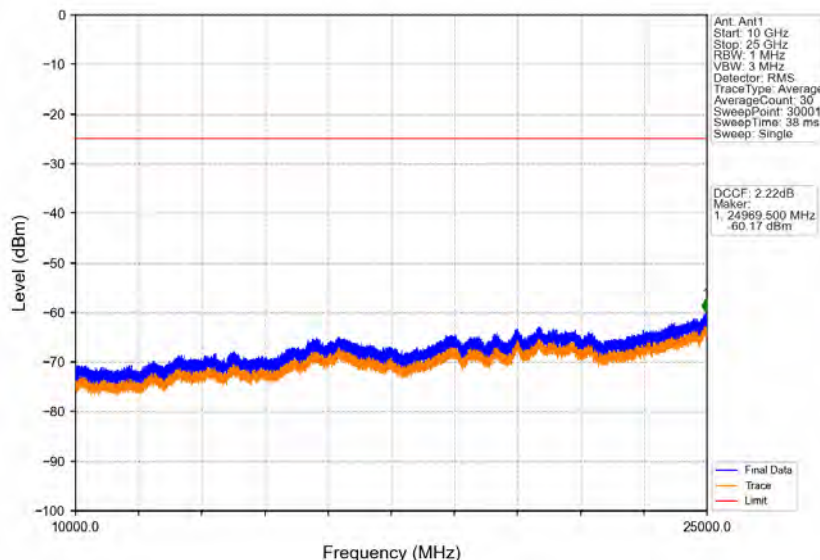
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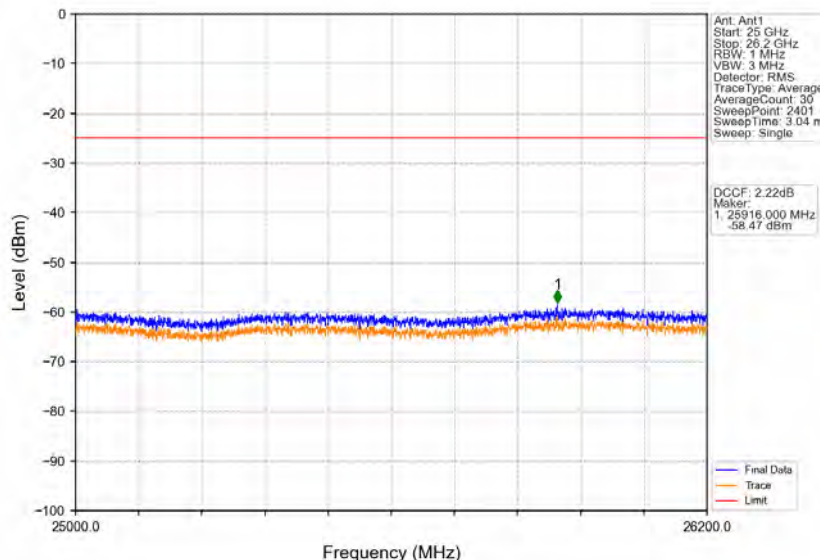
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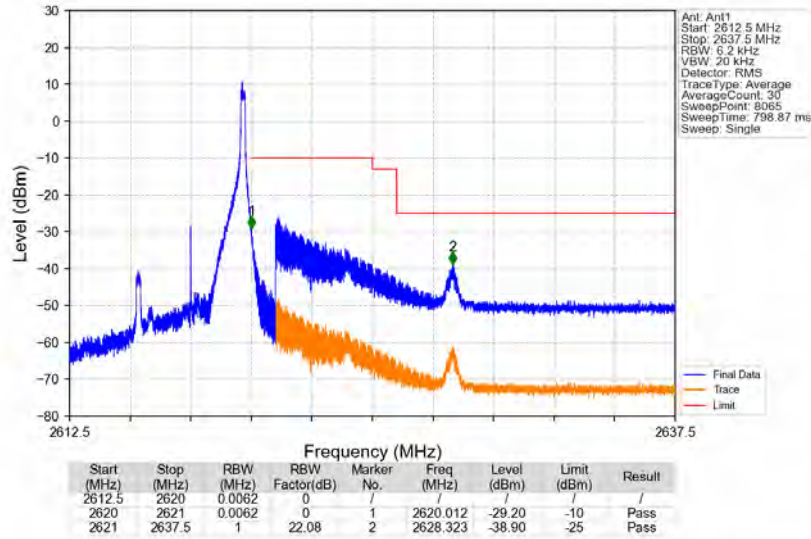
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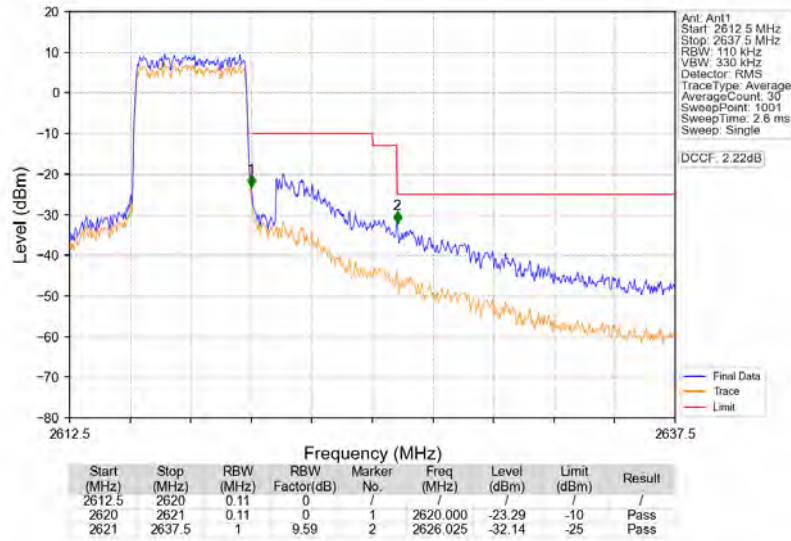
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### Band38\_5MHz\_16QAM\_HCH\_2617.5MHz\_RB\_1\_24\_NTNV



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5.2 B38\_10MHz

5.2.1 Test Result

Band: 38 / Bandwidth: 10MHz / NTV						
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
	2615	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
16QAM	2575	1	0	Refer To Test Graph		Pass
		50	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

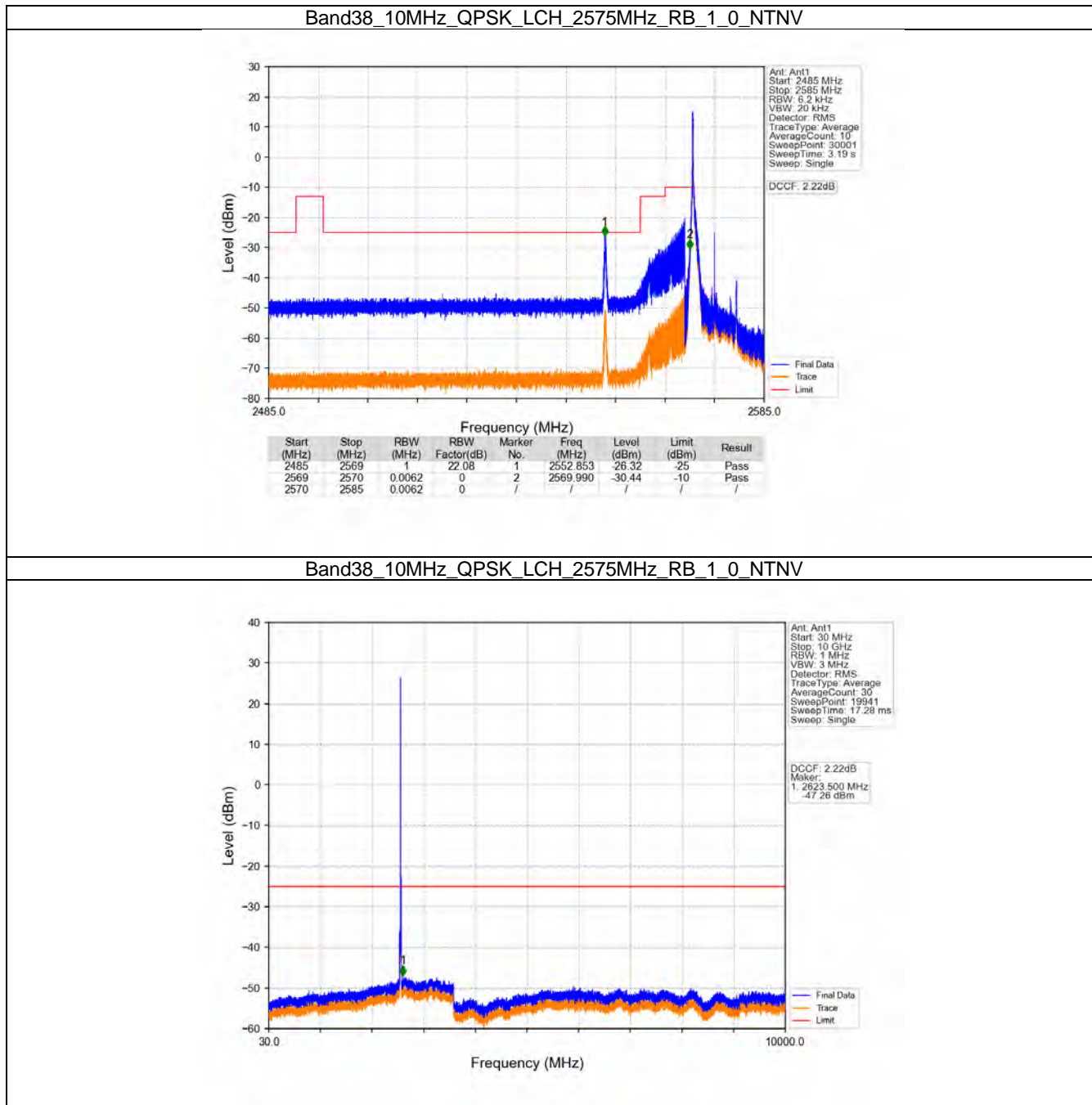


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5.2.2 Test Graph



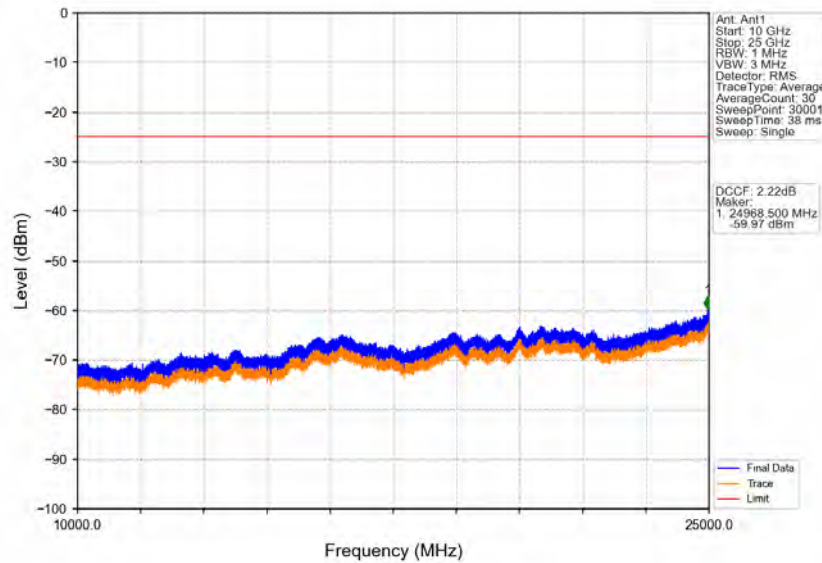
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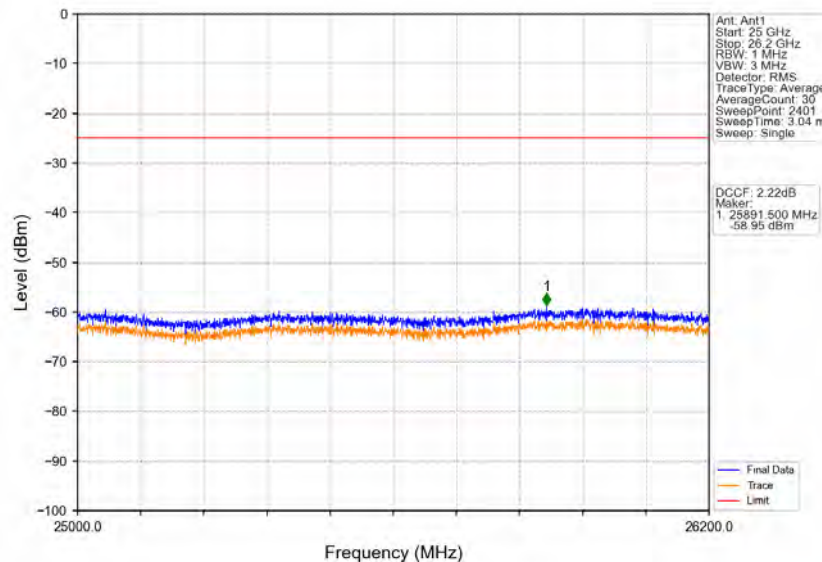
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Band38\_10MHz\_QPSK\_LCH\_2575MHz\_RB\_1\_0\_NTNV



Band38\_10MHz\_QPSK\_LCH\_2575MHz\_RB\_1\_0\_NTNV



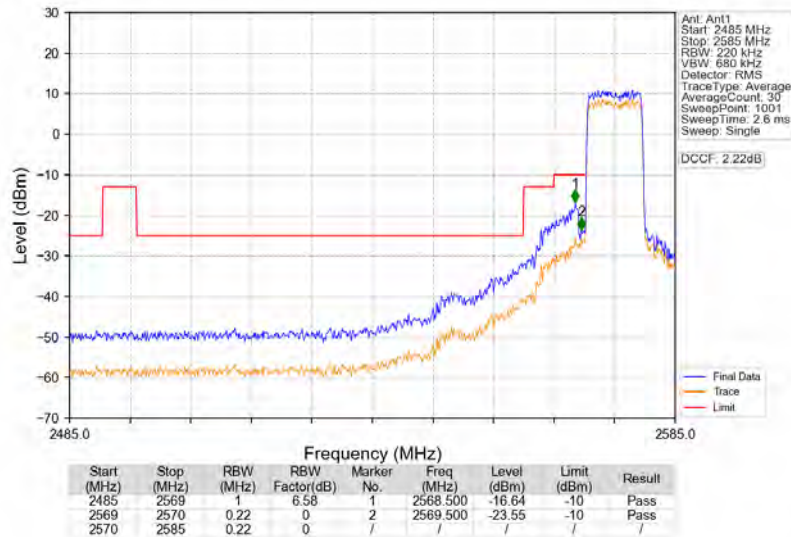
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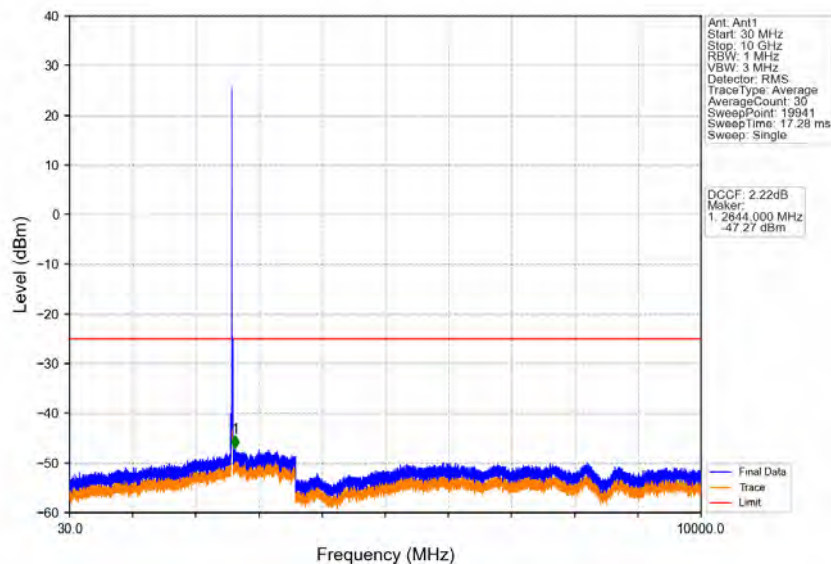
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### Band38\_10MHz\_QPSK\_LCH\_2575MHz\_RB\_50\_0\_NTNV



### Band38\_10MHz\_QPSK\_MCH\_2595MHz\_RB\_1\_0\_NTNV



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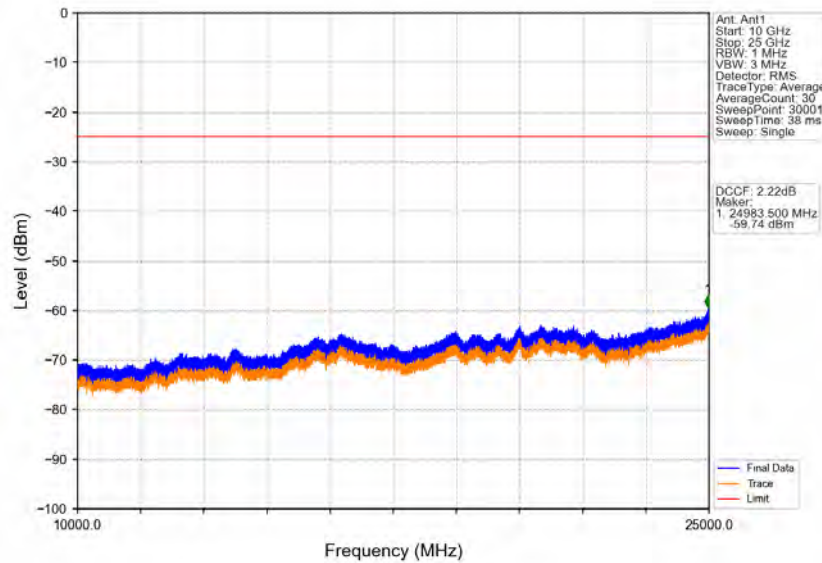
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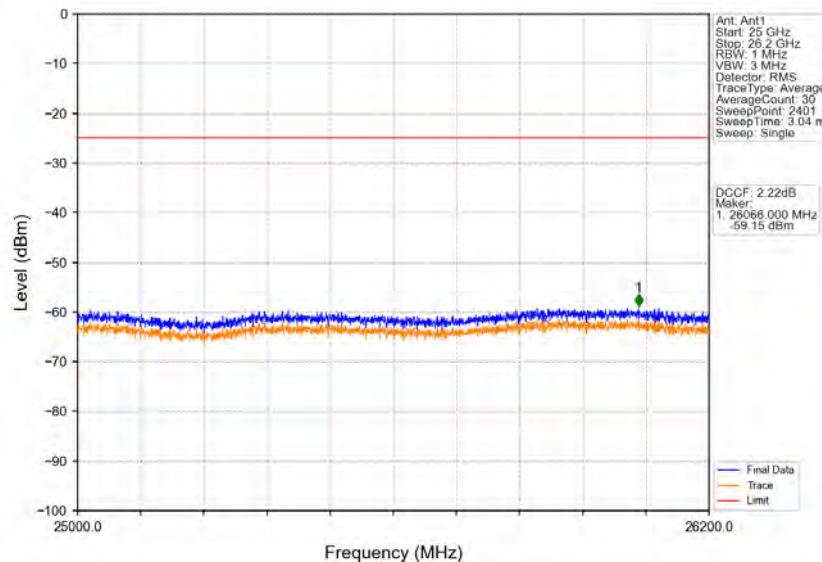
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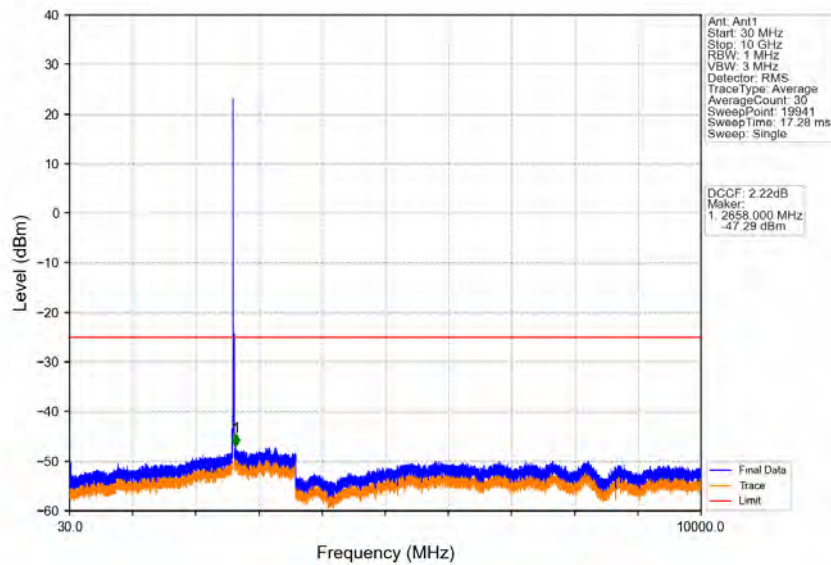
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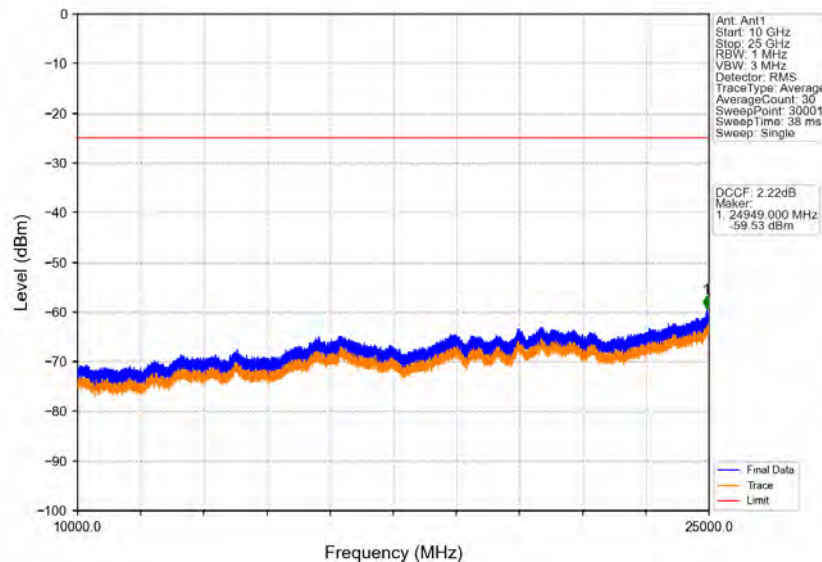
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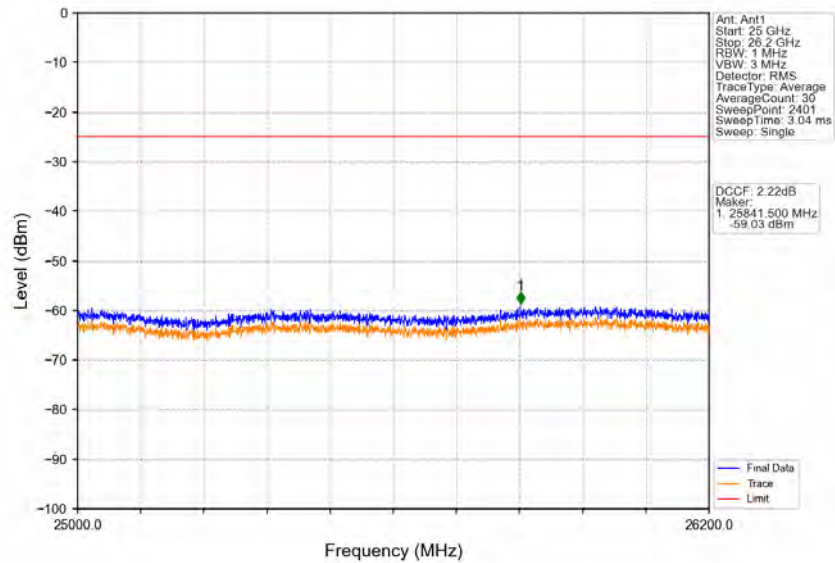
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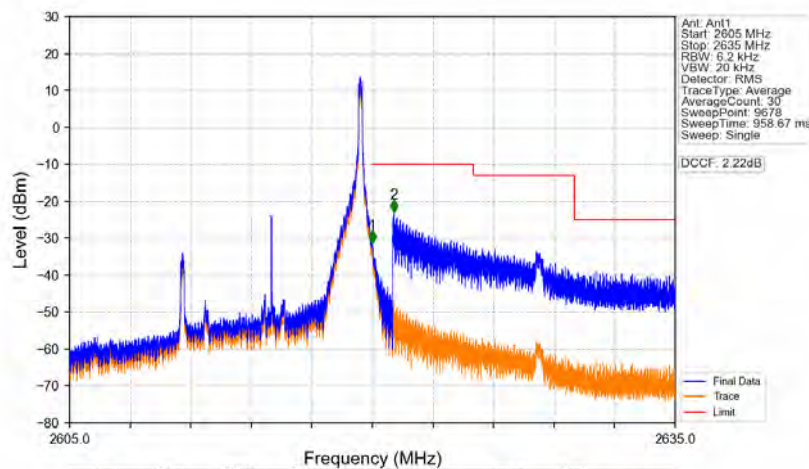
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Band38\_10MHz\_QPSK\_HCH\_2615MHz\_RB\_1\_0\_NTNV



Band38\_10MHz\_QPSK\_HCH\_2615MHz\_RB\_1\_49\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2605	2620	0.0062	0	/	/	/	/	/
2620	2621	0.0062	0	1	2620.002	-31.39	-10	Pass
2621	2635	1	22.08	2	2621.074	-23.00	-10	Pass



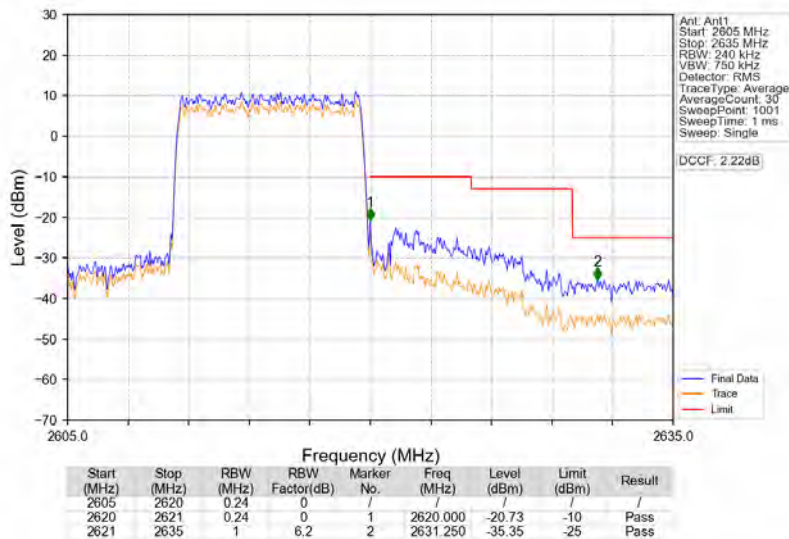
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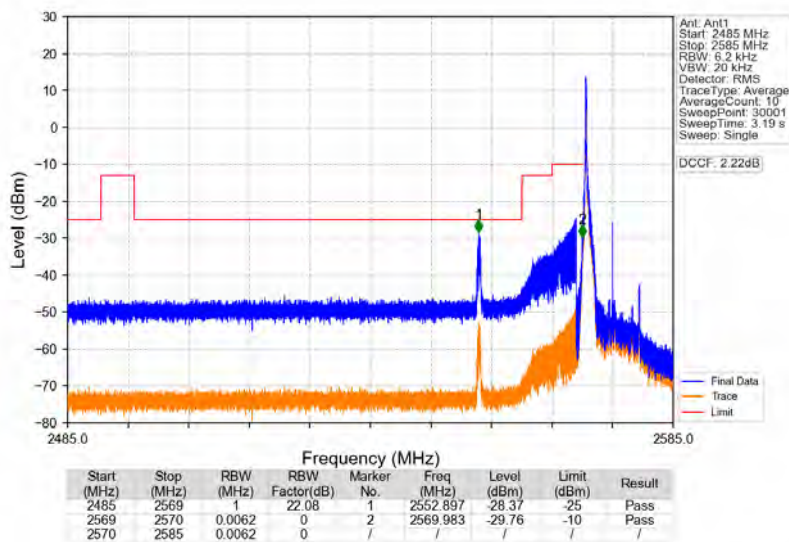
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### Band38\_10MHz\_QPSK\_HCH\_2615MHz\_RB\_50\_0\_NTV



### Band38\_10MHz\_16QAM\_LCH\_2575MHz\_RB\_1\_0\_NTV



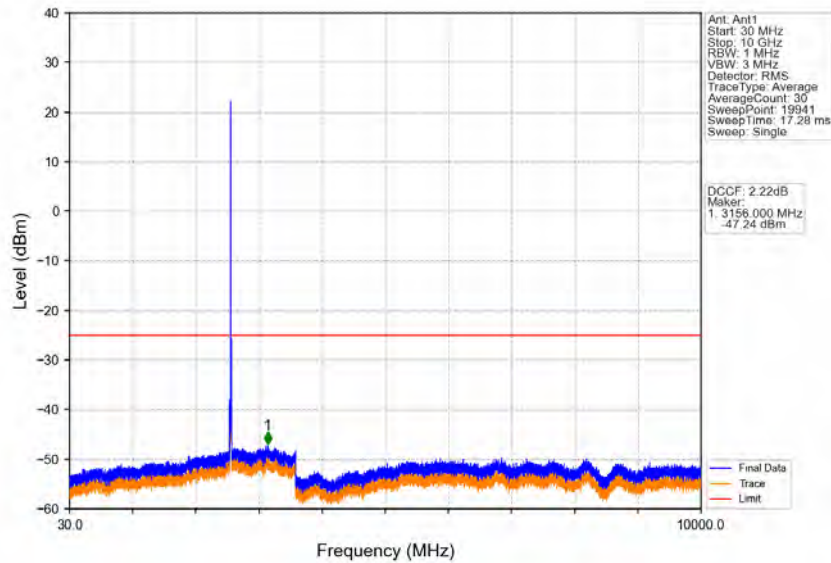
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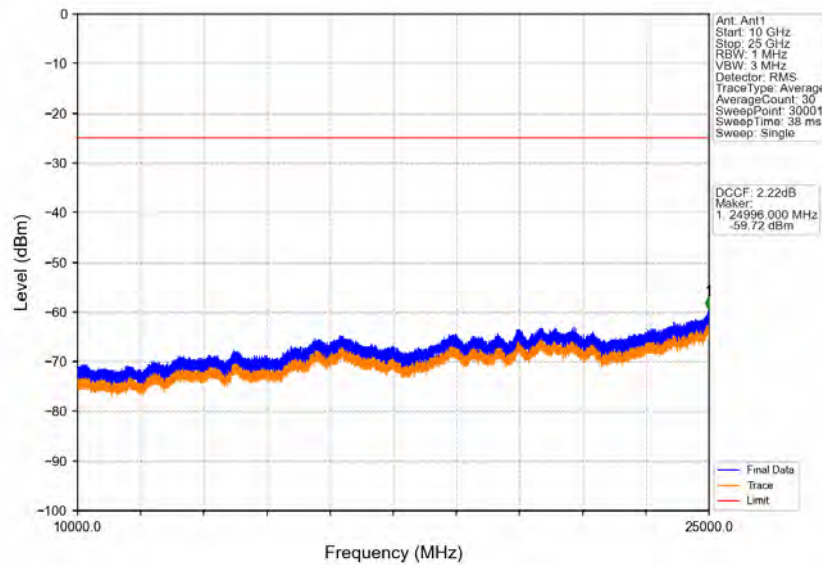
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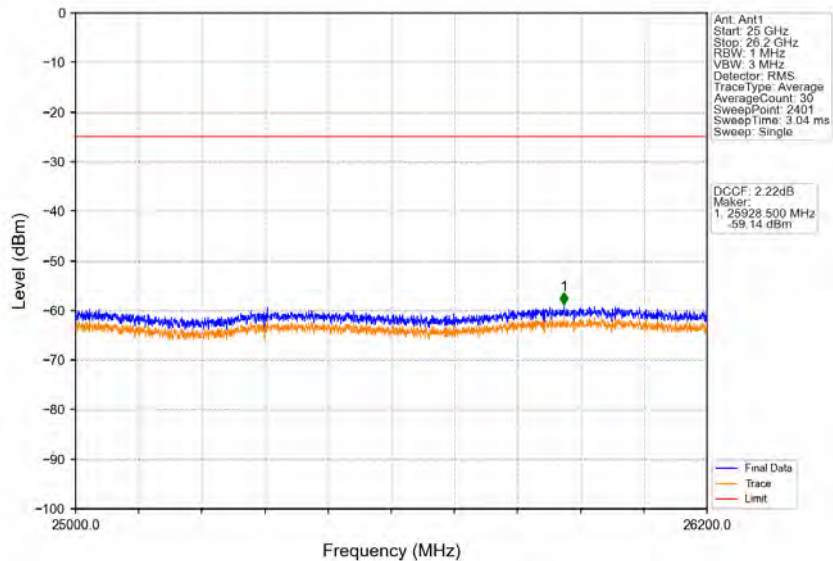
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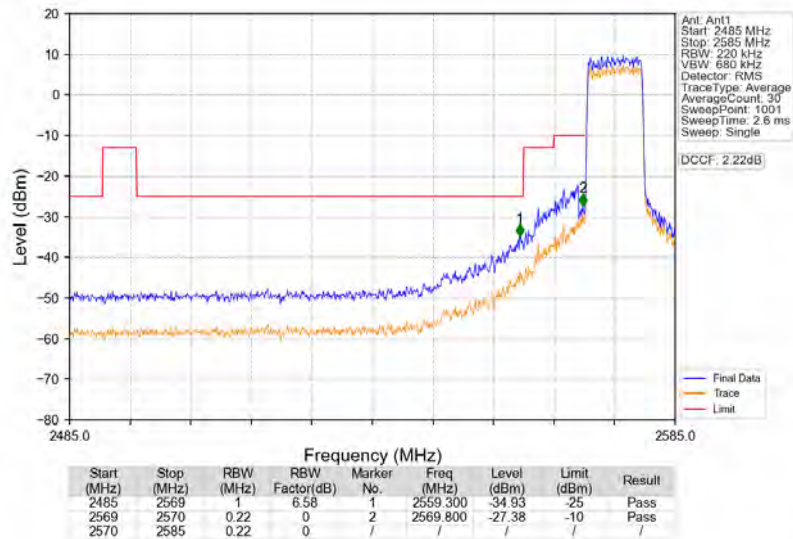
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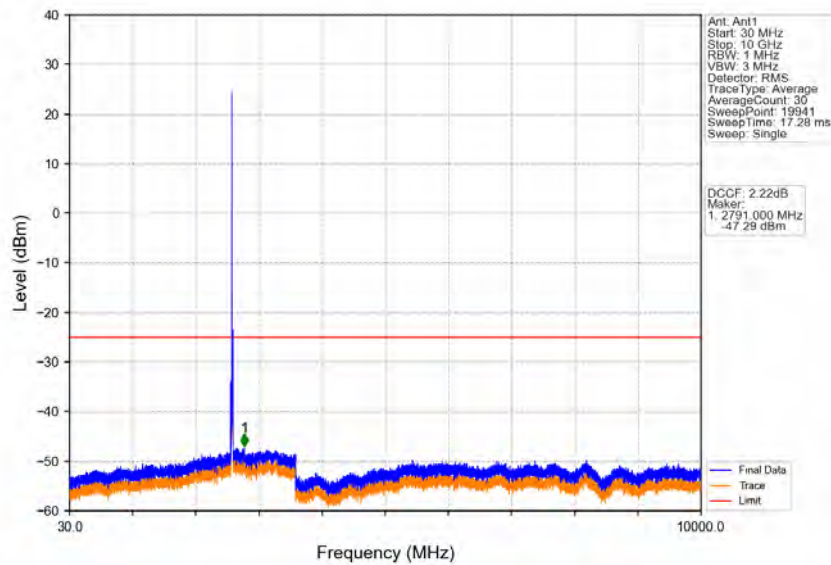
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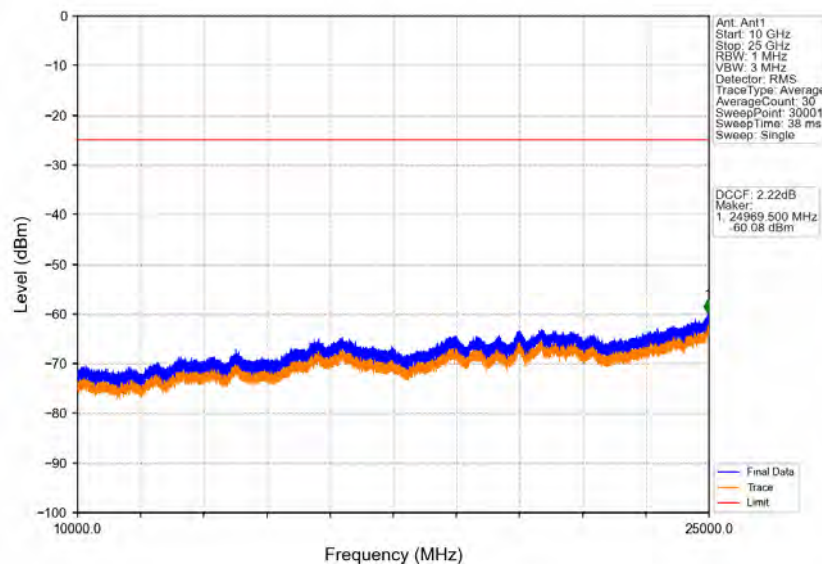
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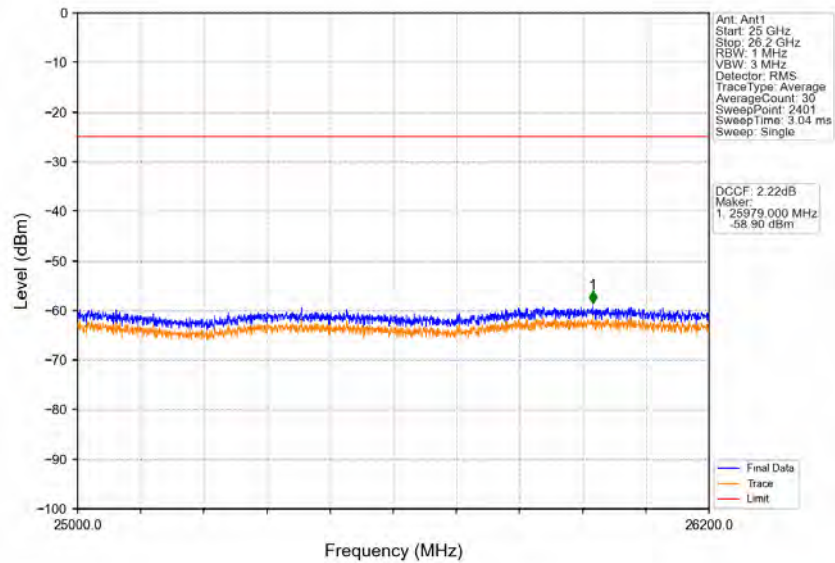
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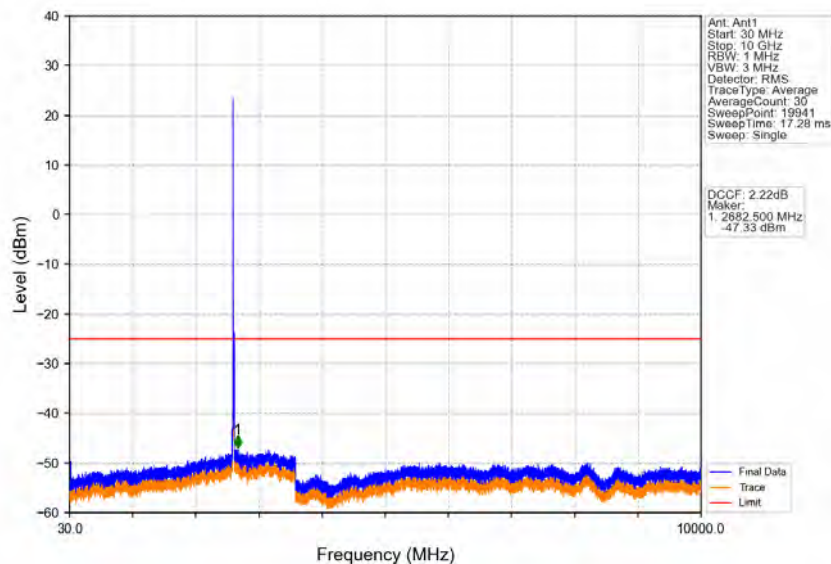
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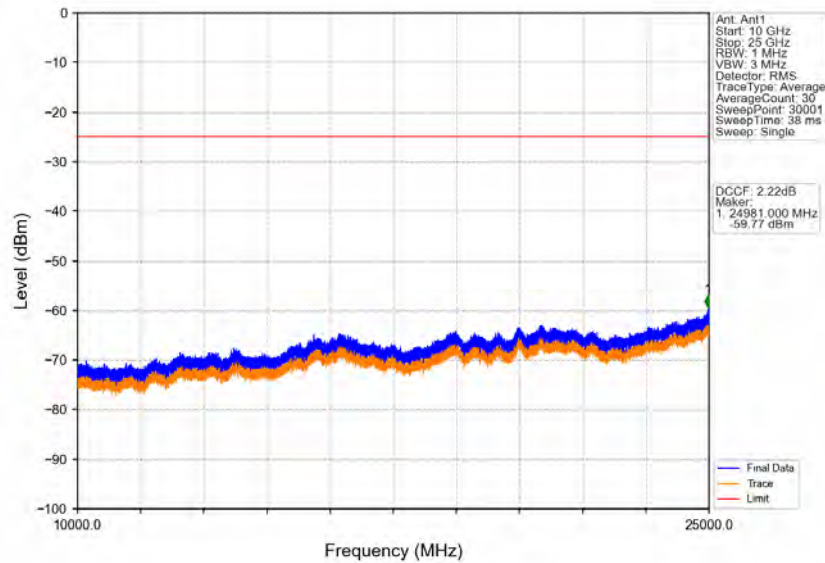
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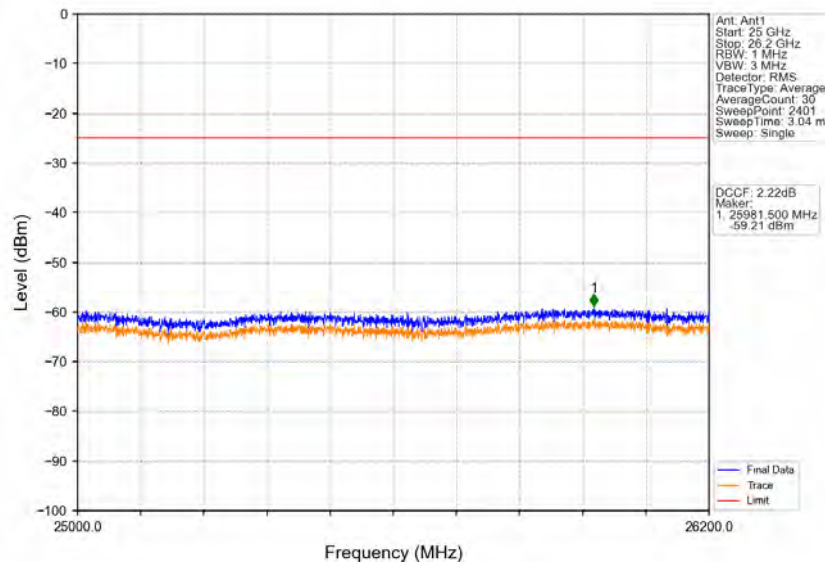
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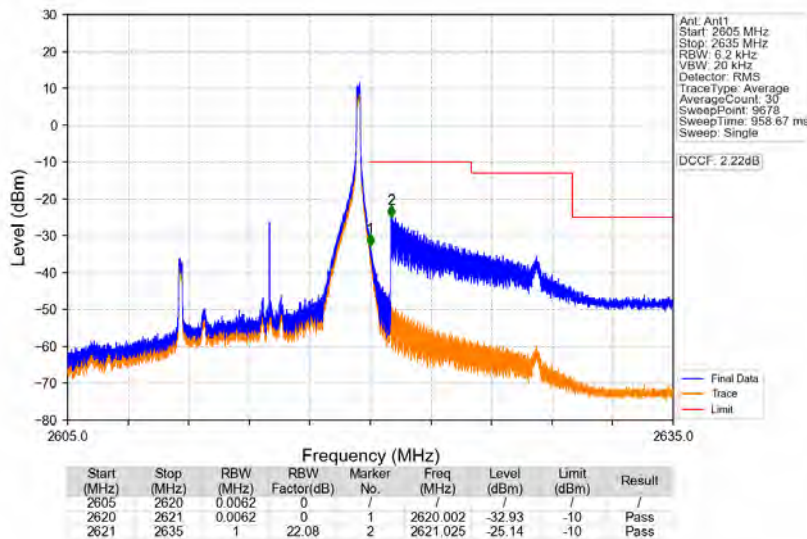
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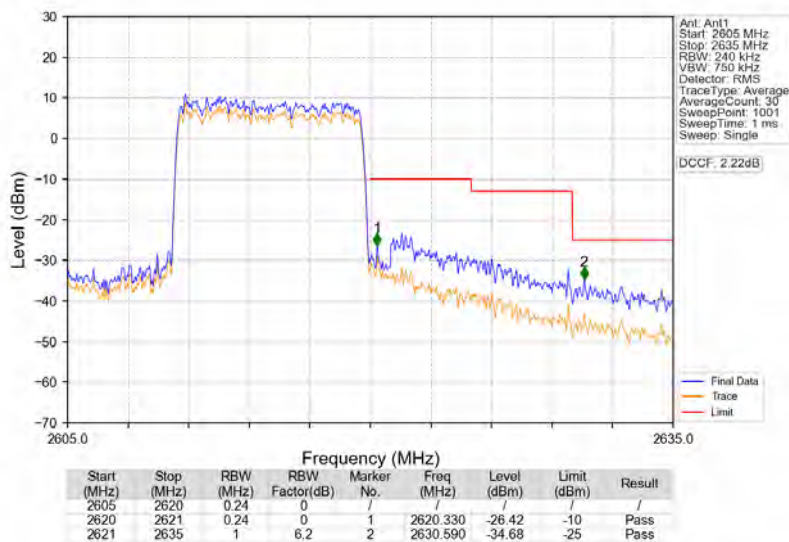
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5.3 B38\_15MHz

5.3.1 Test Result

Band: 38 / Bandwidth: 15MHz / NTV						
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
	2612.5	1	0	Refer To Test Graph		Pass
			74	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
			0	Refer To Test Graph		Pass
16QAM	2577.5	1	0	Refer To Test Graph		Pass
		75	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
			0	Refer To Test Graph		Pass



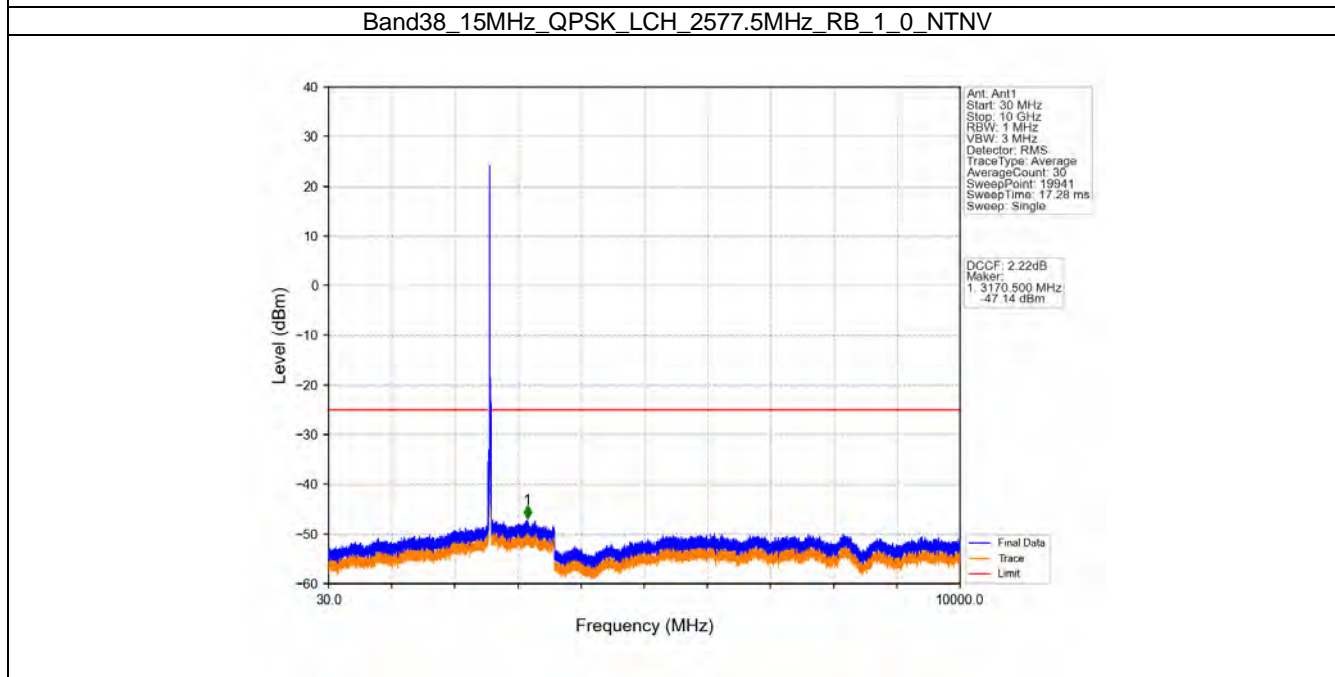
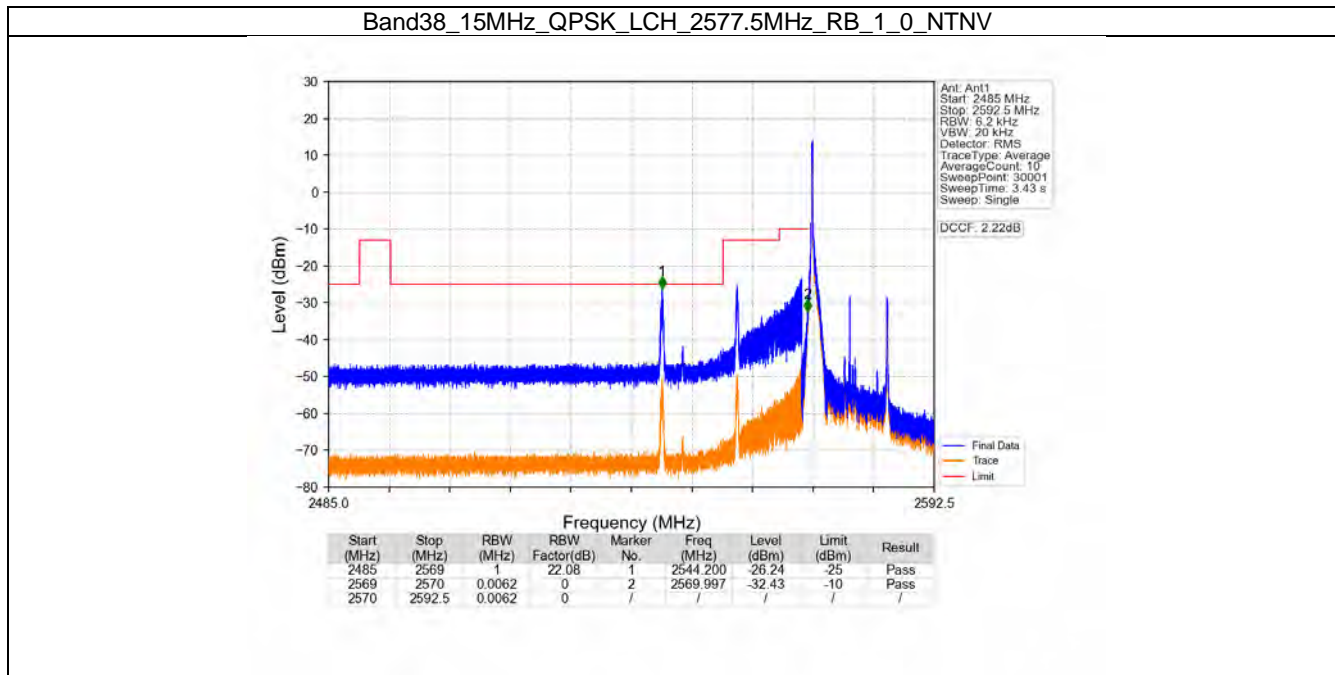
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5.3.2 Test Graph



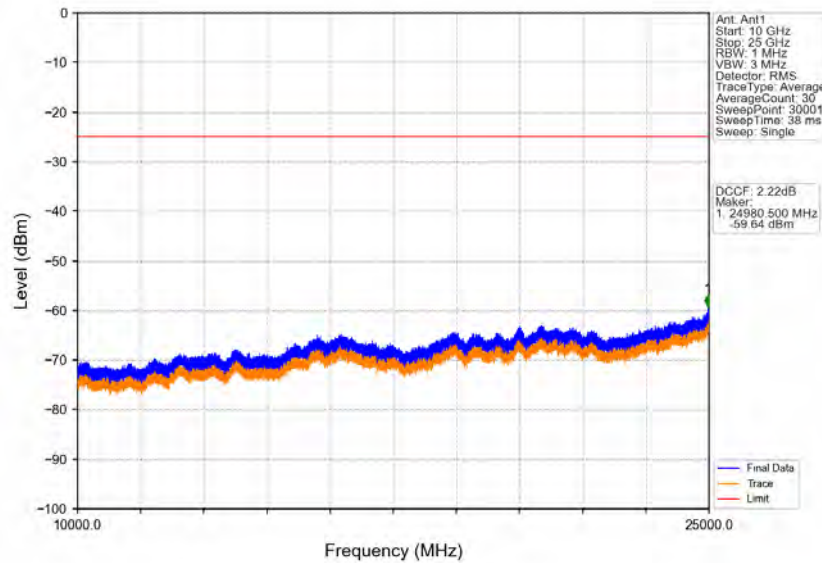
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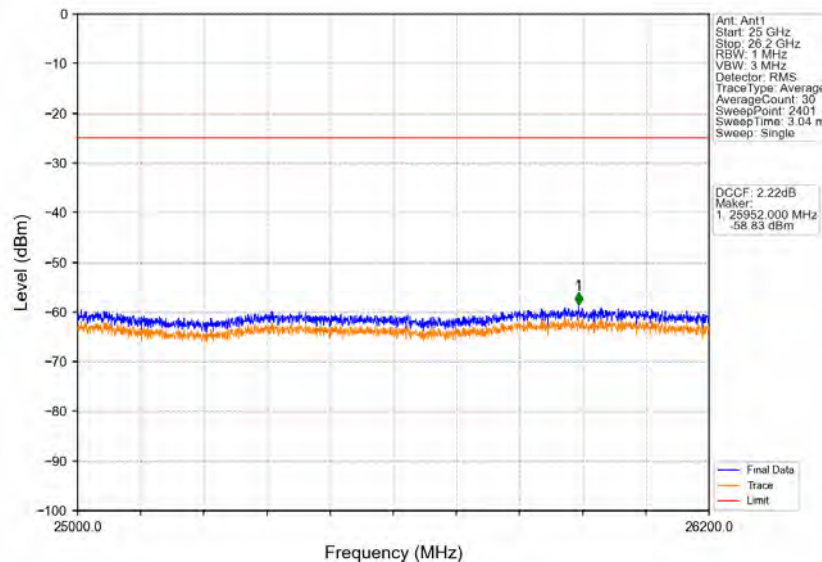
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Band38\_15MHz\_QPSK\_LCH\_2577.5MHz\_RB\_1\_0\_NTNV



Band38\_15MHz\_QPSK\_LCH\_2577.5MHz\_RB\_1\_0\_NTNV



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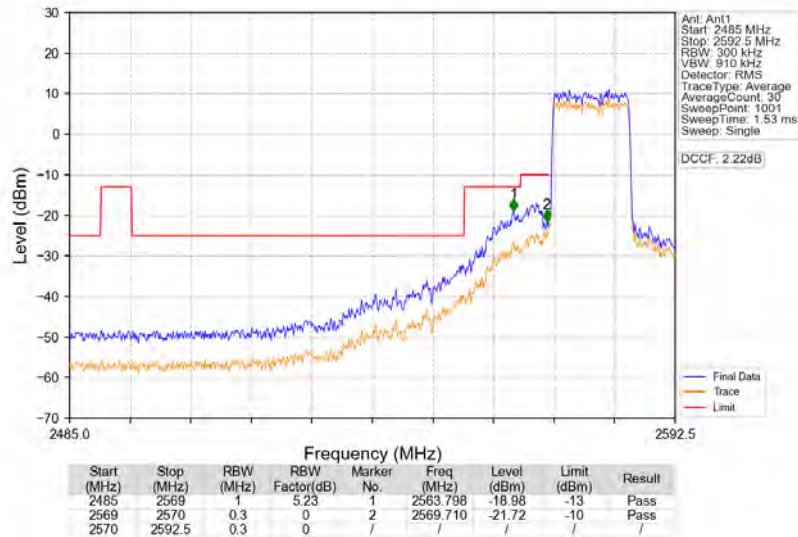
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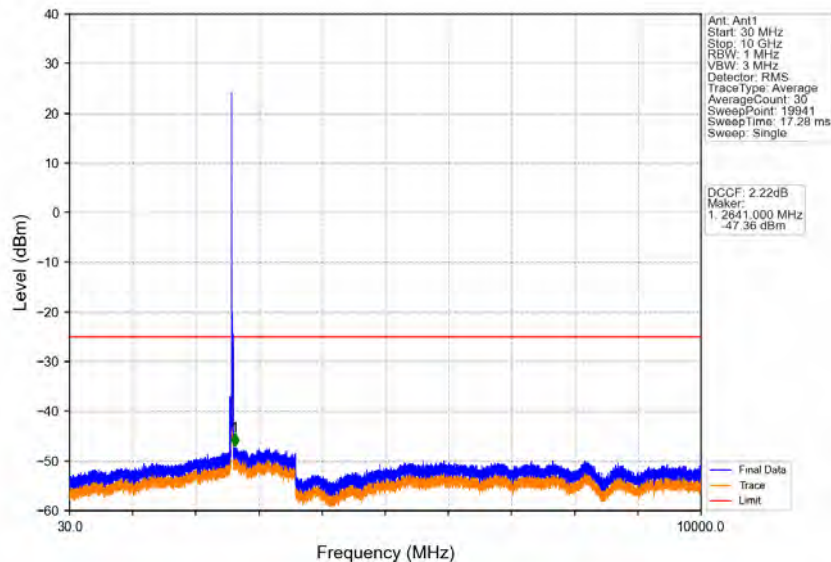
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### Band38\_15MHz\_QPSK\_LCH\_2577.5MHz\_RB\_75\_0\_NTNV



### Band38\_15MHz\_QPSK\_MCH\_2595MHz\_RB\_1\_0\_NTNV



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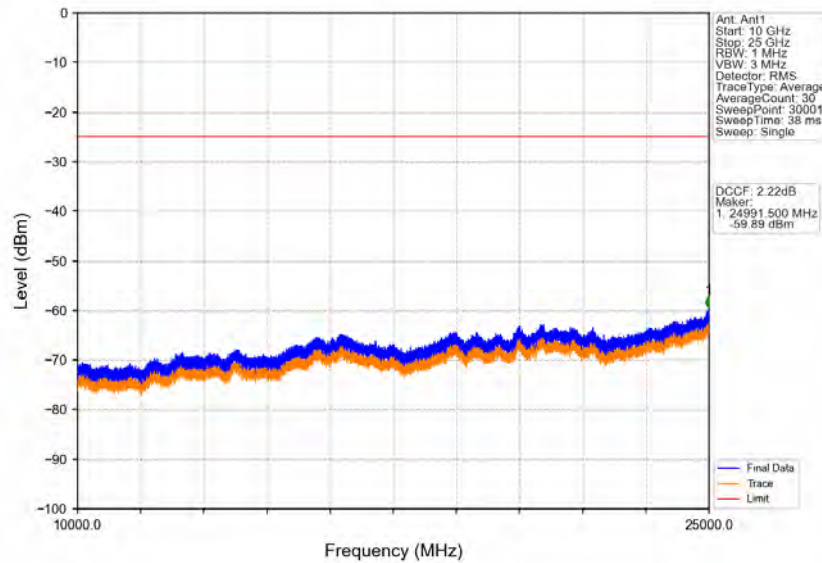
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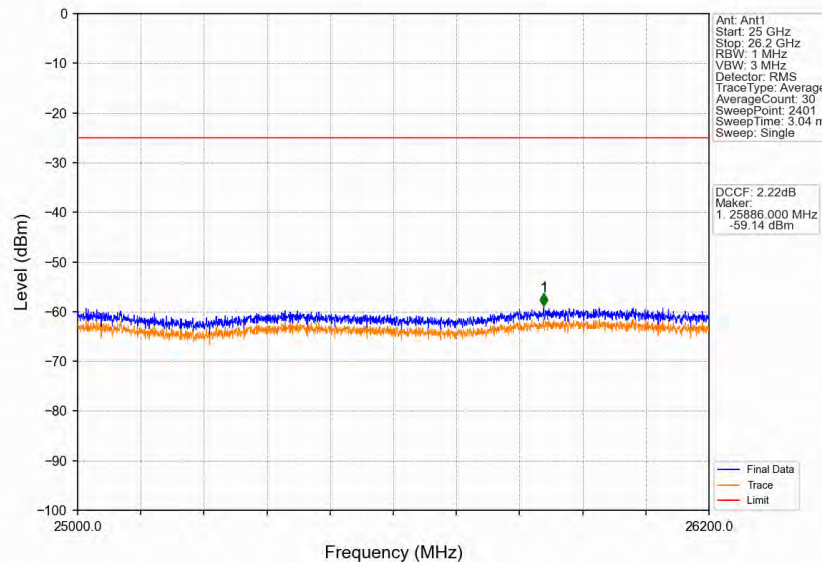
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Band38\_15MHz\_QPSK\_MCH\_2595MHz\_RB\_1\_0\_NTNV



Band38\_15MHz\_QPSK\_MCH\_2595MHz\_RB\_1\_0\_NTNV



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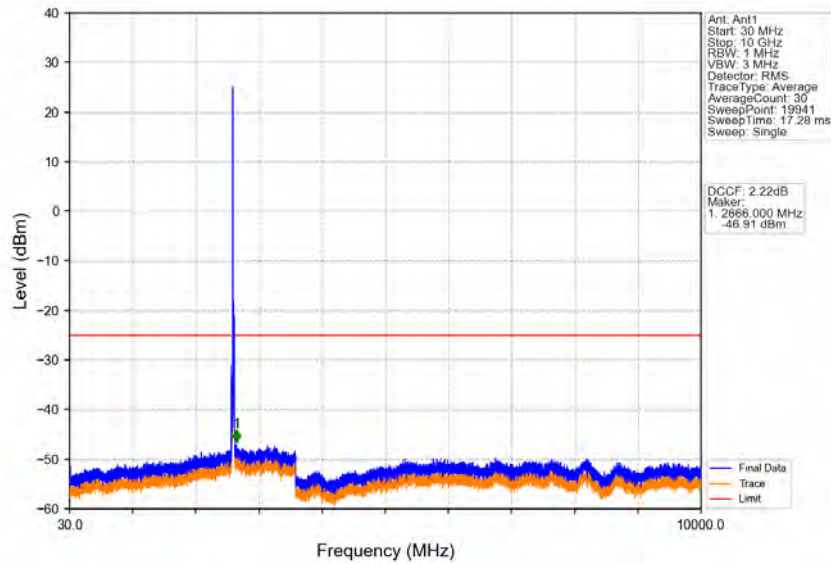
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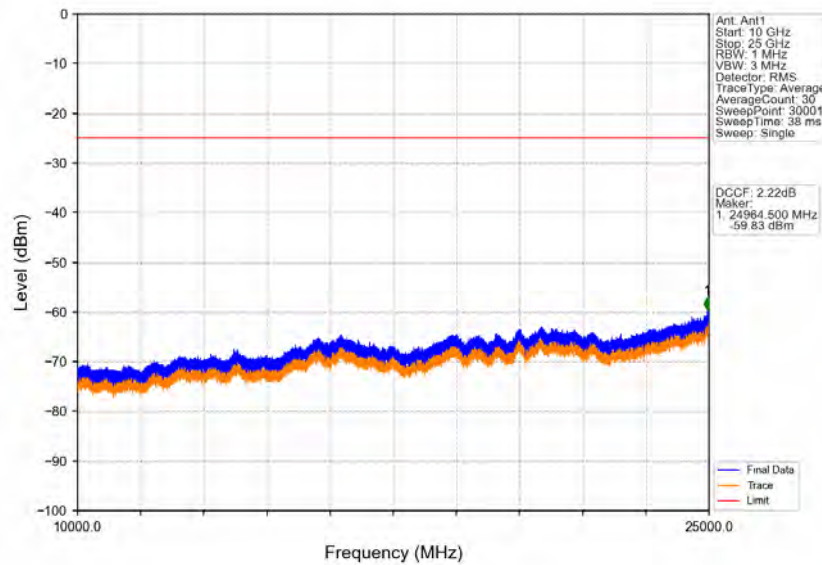
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Band38\_15MHz\_QPSK\_HCH\_2612.5MHz\_RB\_1\_0\_NTNV



Band38\_15MHz\_QPSK\_HCH\_2612.5MHz\_RB\_1\_0\_NTNV



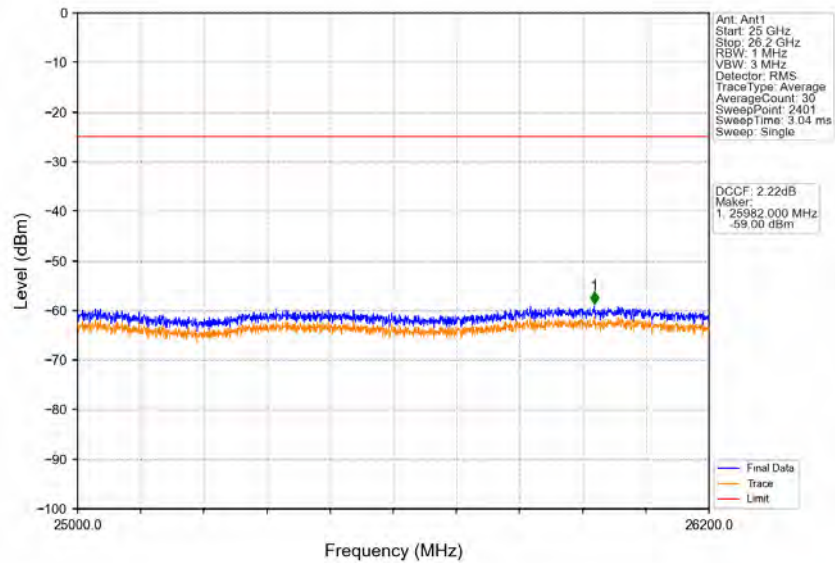
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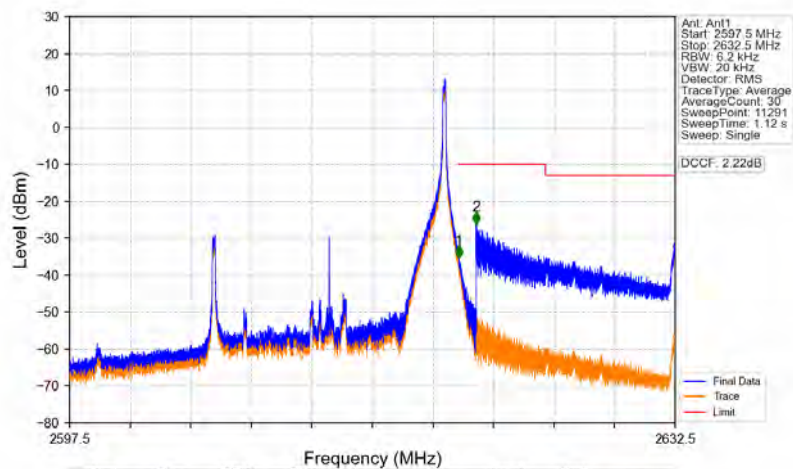
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Band38\_15MHz\_QPSK\_HCH\_2612.5MHz\_RB\_1\_0\_NTNV



Band38\_15MHz\_QPSK\_HCH\_2612.5MHz\_RB\_1\_74\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2597.5	2620	0.0062	0	/	/	/	/	/
2620	2621	0.0062	0	1	2620.000	-35.47	-10	Pass
2621	2632.5	1	22.08	2	2621.002	-26.34	-10	Pass



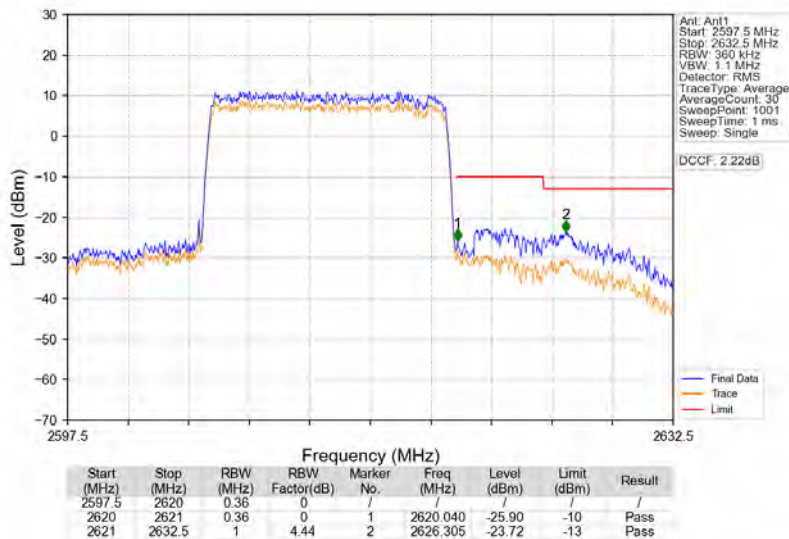
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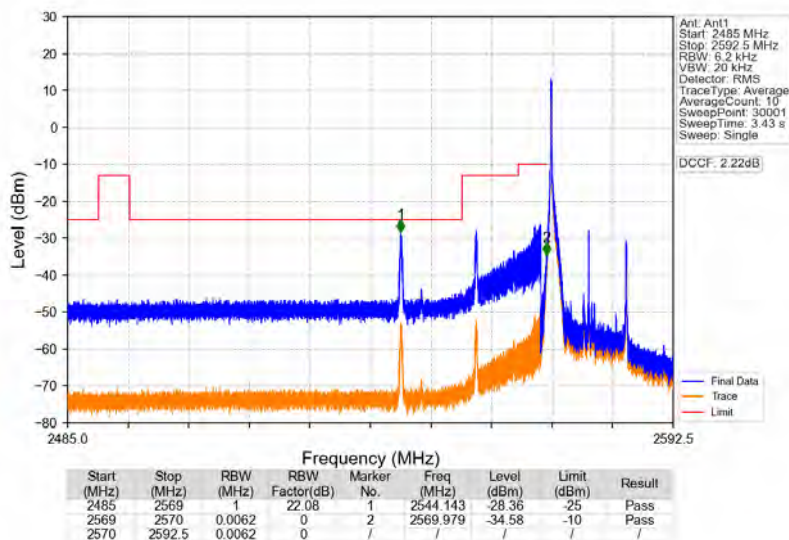
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### Band38\_15MHz\_QPSK\_HCH\_2612.5MHz\_RB\_75\_0\_NTNV



### Band38\_15MHz\_16QAM\_LCH\_2577.5MHz\_RB\_1\_0\_NTNV



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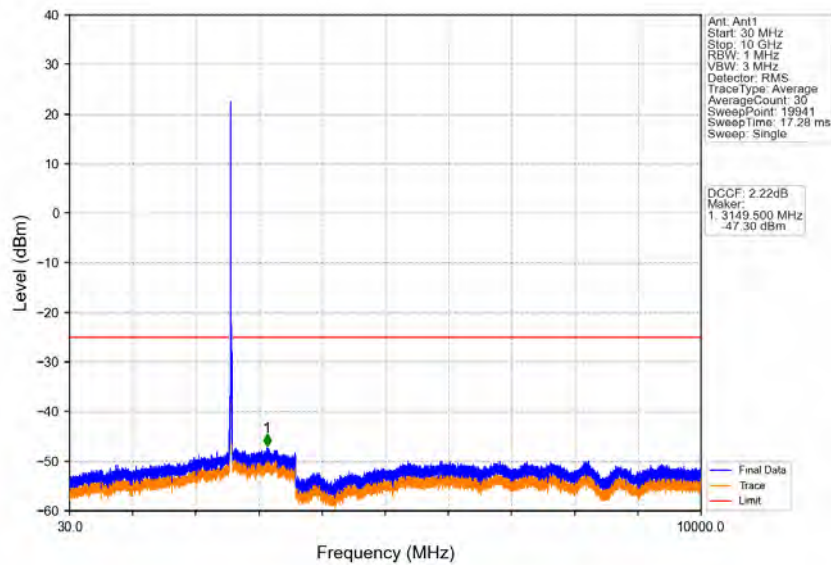
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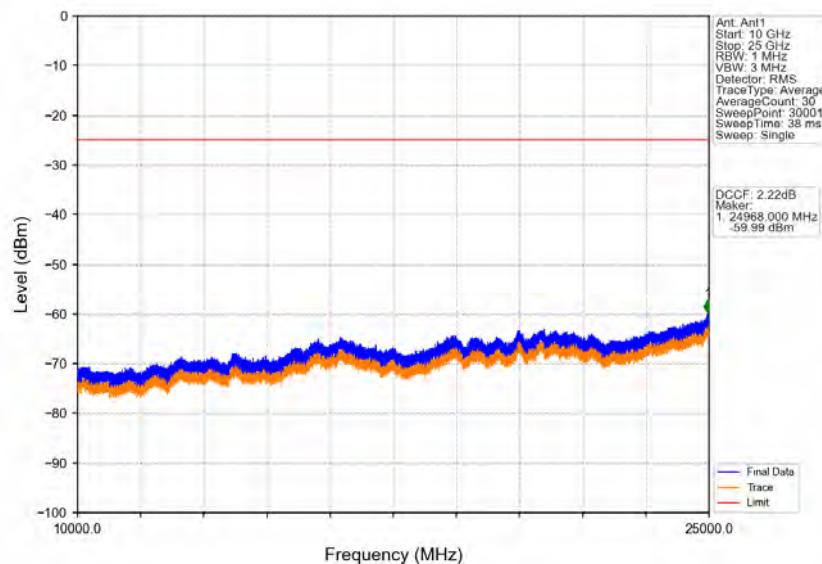
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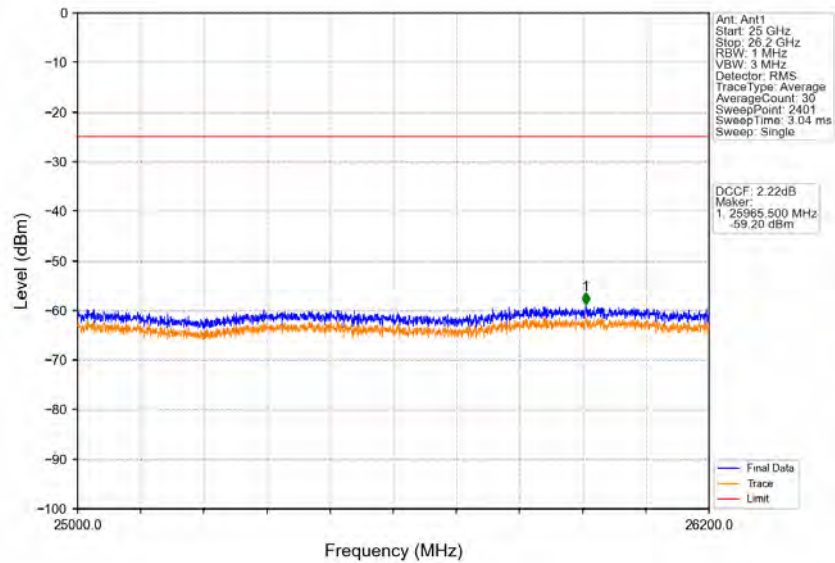
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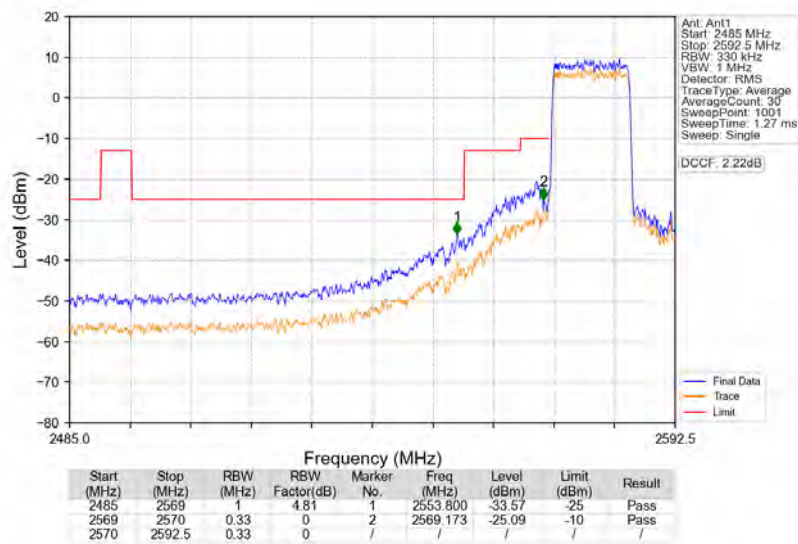
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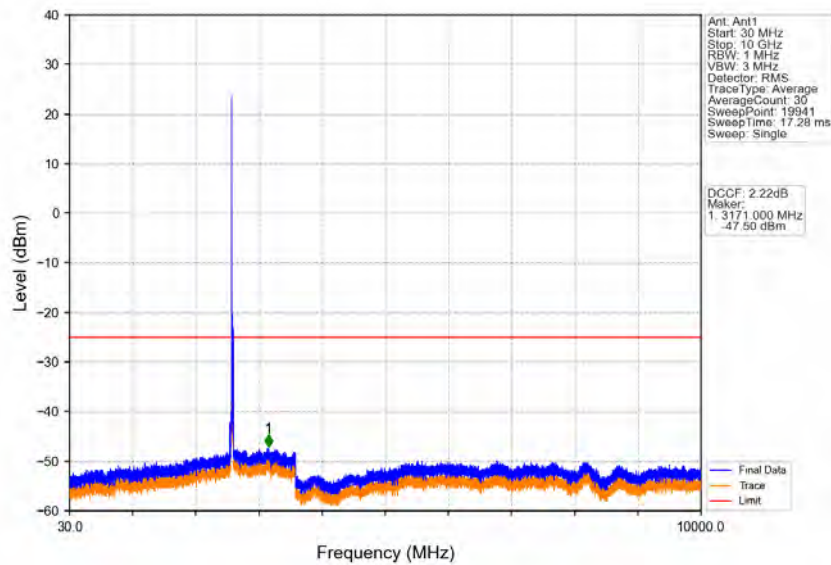
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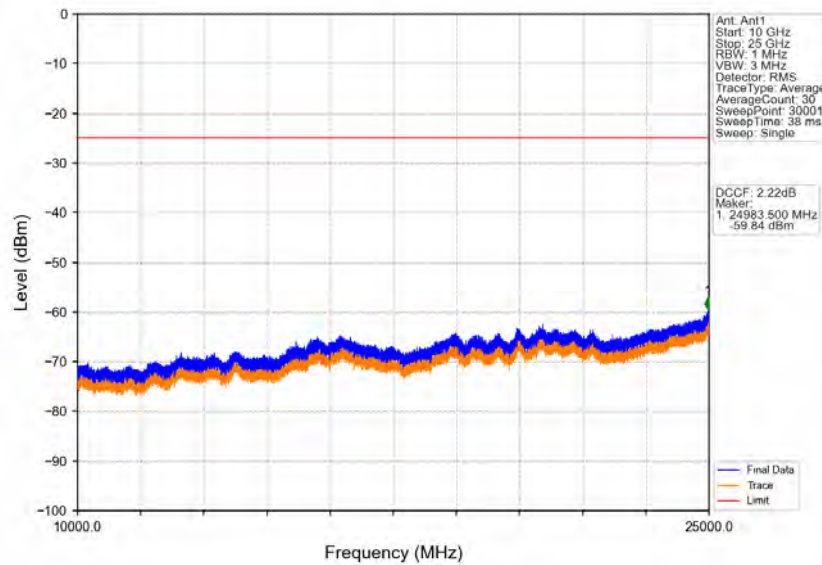
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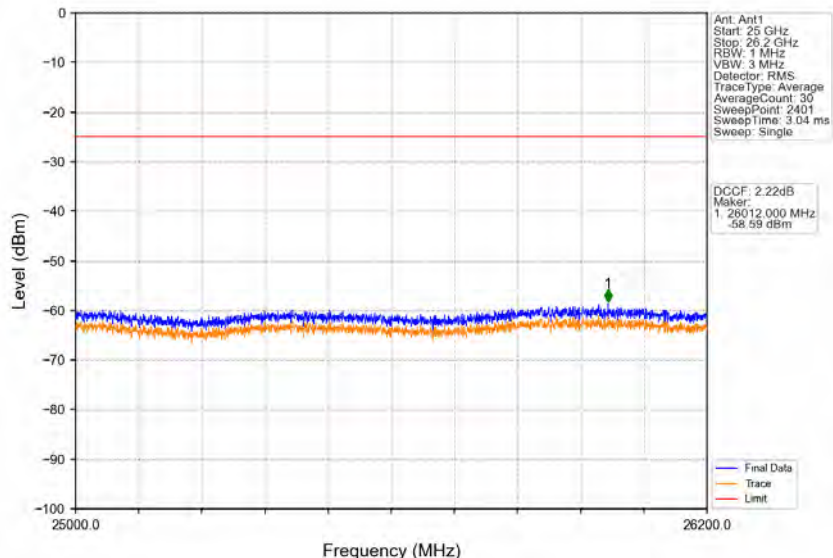
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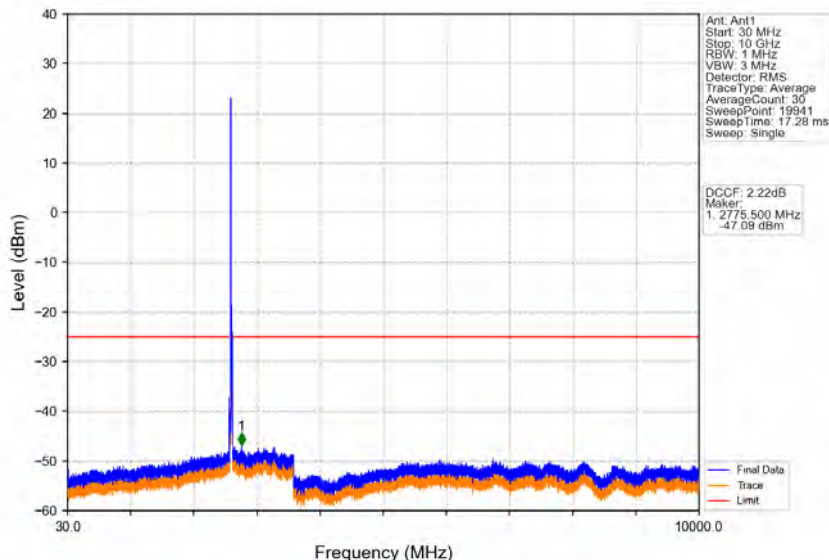
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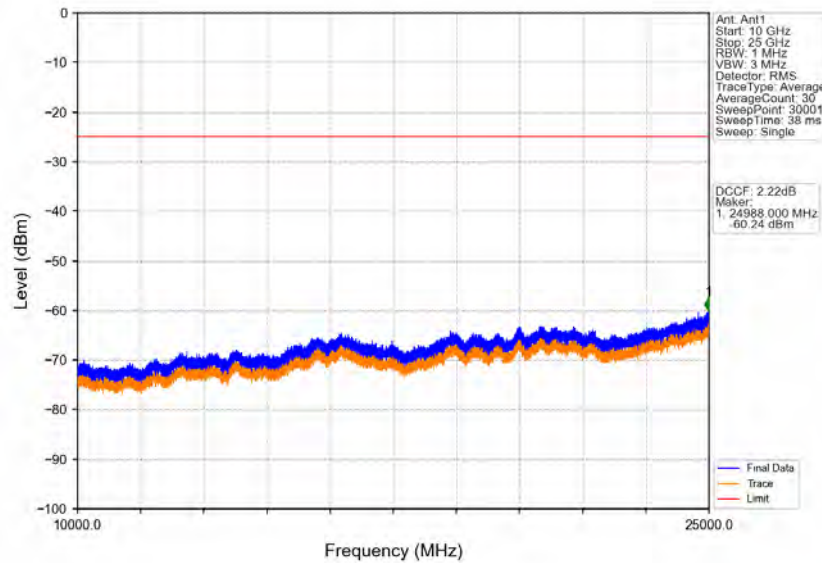


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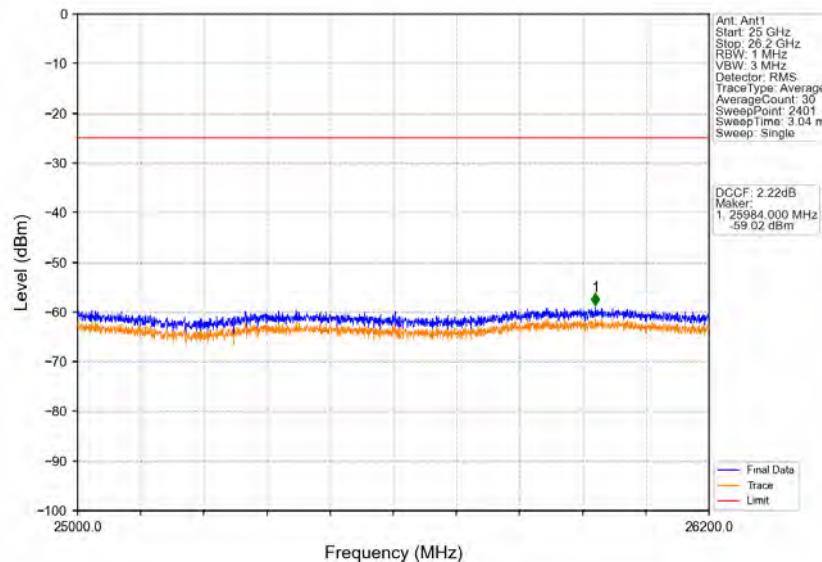
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Band38\_15MHz\_16QAM\_HCH\_2612.5MHz\_RB\_1\_0\_NTNV



Band38\_15MHz\_16QAM\_HCH\_2612.5MHz\_RB\_1\_0\_NTNV



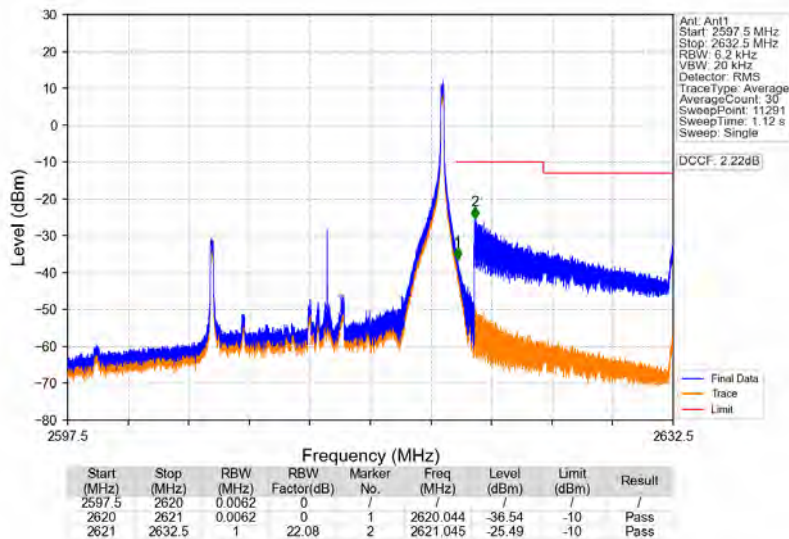
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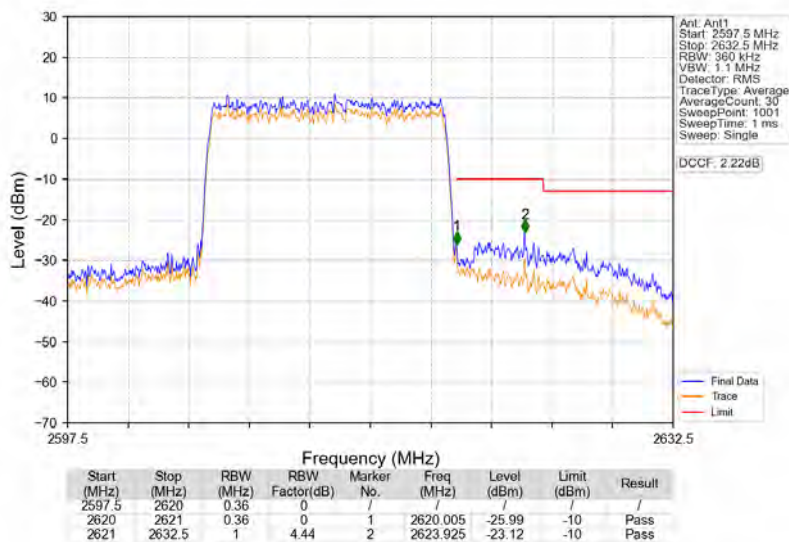
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### Band38\_15MHz\_16QAM\_HCH\_2612.5MHz\_RB\_1\_74\_NTNV



### Band38\_15MHz\_16QAM\_HCH\_2612.5MHz\_RB\_75\_0\_NTNV



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5.4 B38\_20MHz

5.4.1 Test Result

Band: 38 / Bandwidth: 20MHz / NTV						
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
	2610	1	0	Refer To Test Graph		Pass
			99	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
			0	Refer To Test Graph		Pass
16QAM	2580	1	0	Refer To Test Graph		Pass
		100	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
			0	Refer To Test Graph		Pass



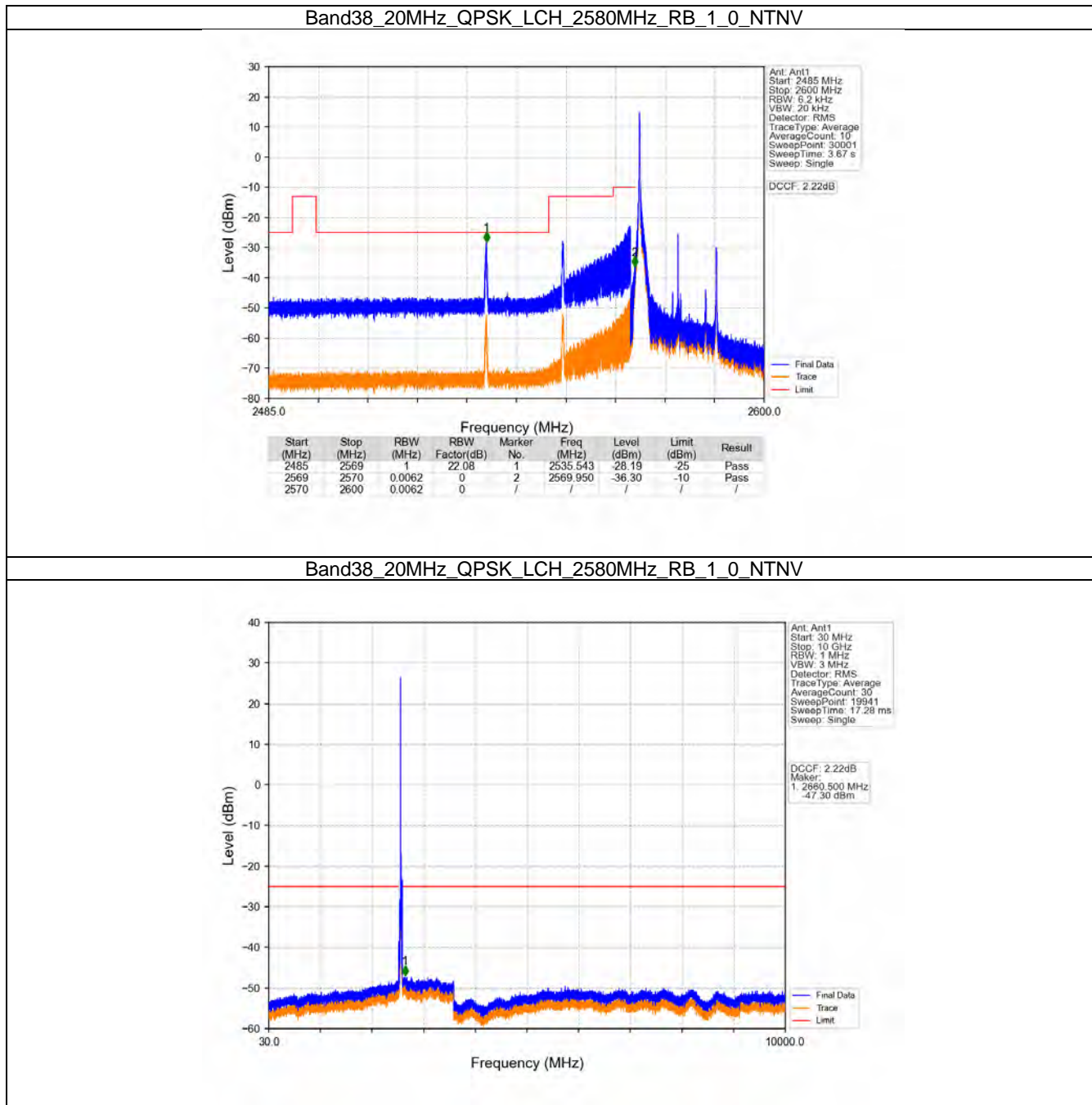
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## 5.4.2 Test Graph



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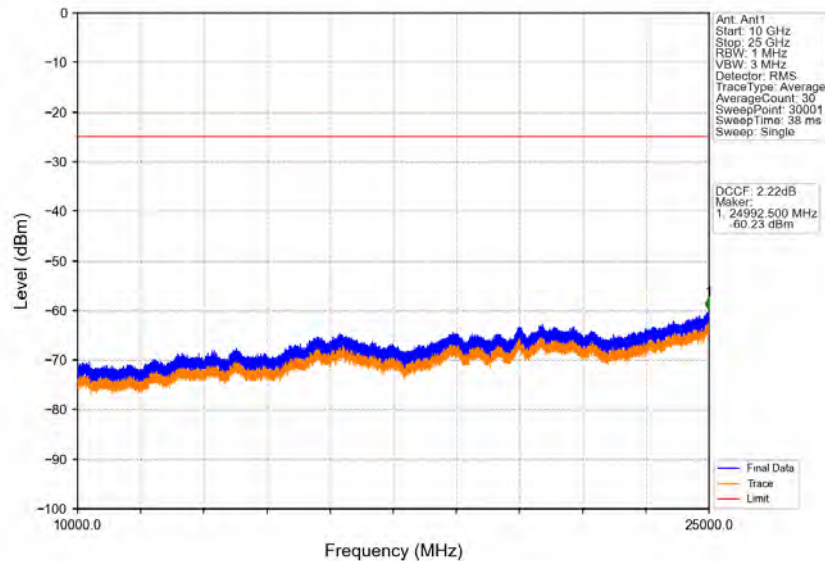
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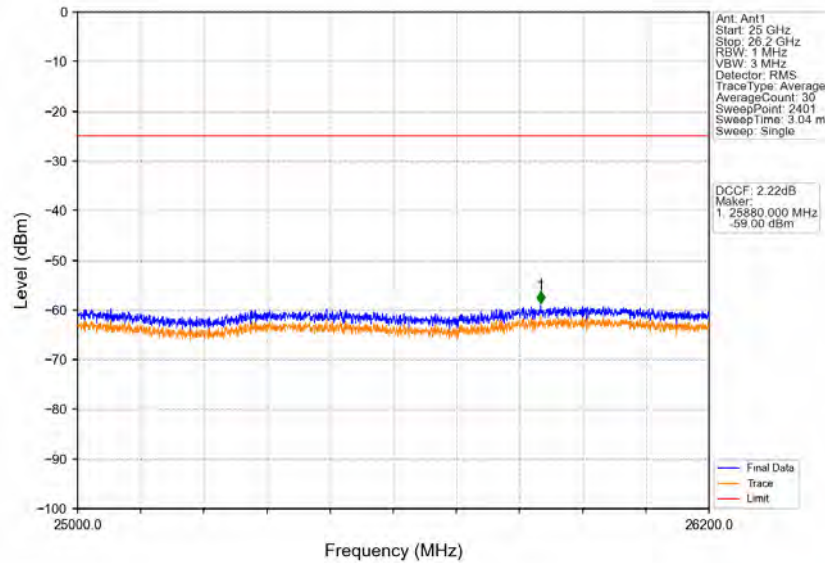
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Band38\_20MHz\_QPSK\_LCH\_2580MHz\_RB\_1\_0\_NTNV



Band38\_20MHz\_QPSK\_LCH\_2580MHz\_RB\_1\_0\_NTNV



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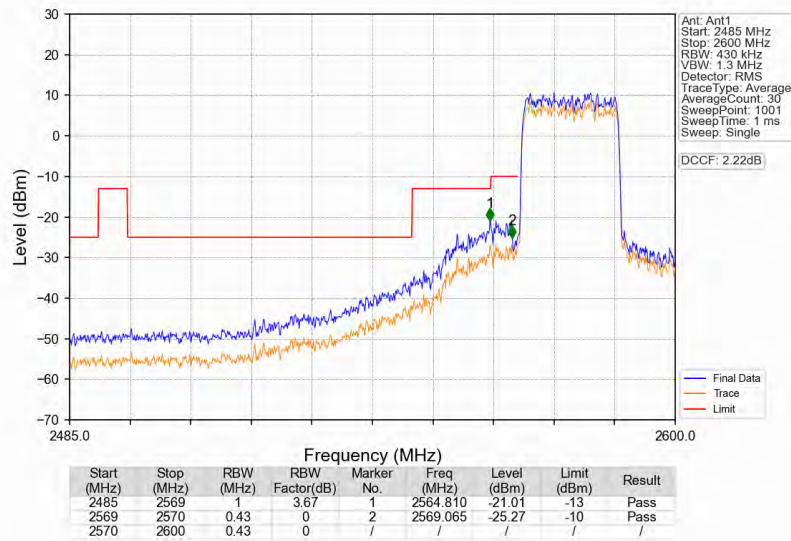
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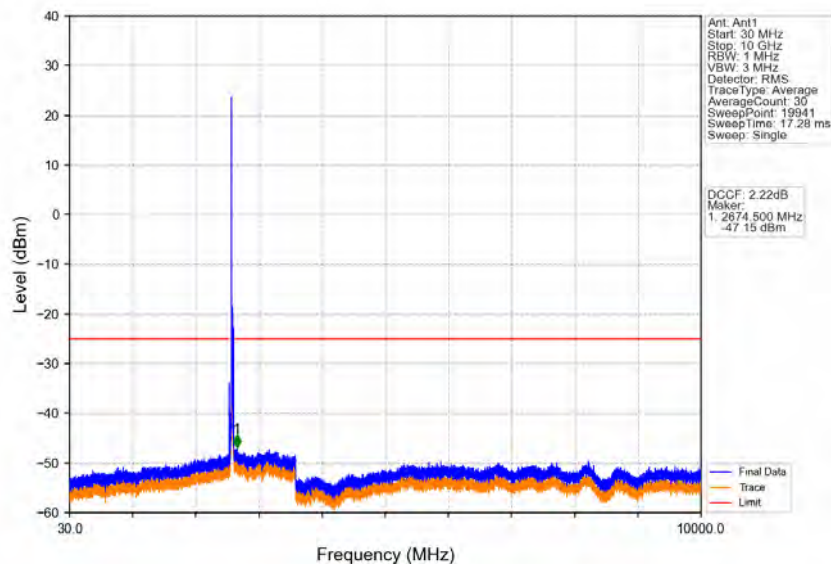


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### Band38\_20MHz\_QPSK\_LCH\_2580MHz\_RB\_100\_0\_NTNV



### Band38\_20MHz\_QPSK\_MCH\_2595MHz\_RB\_1\_0\_NTNV



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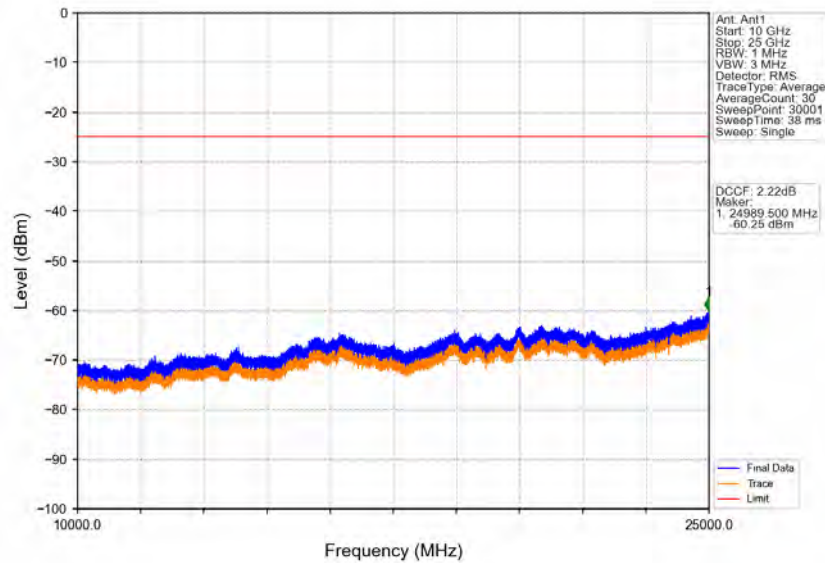
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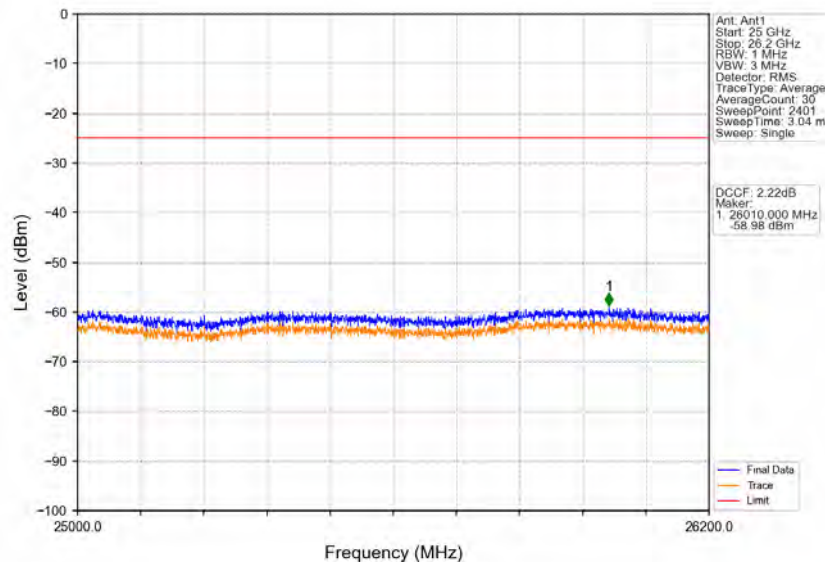
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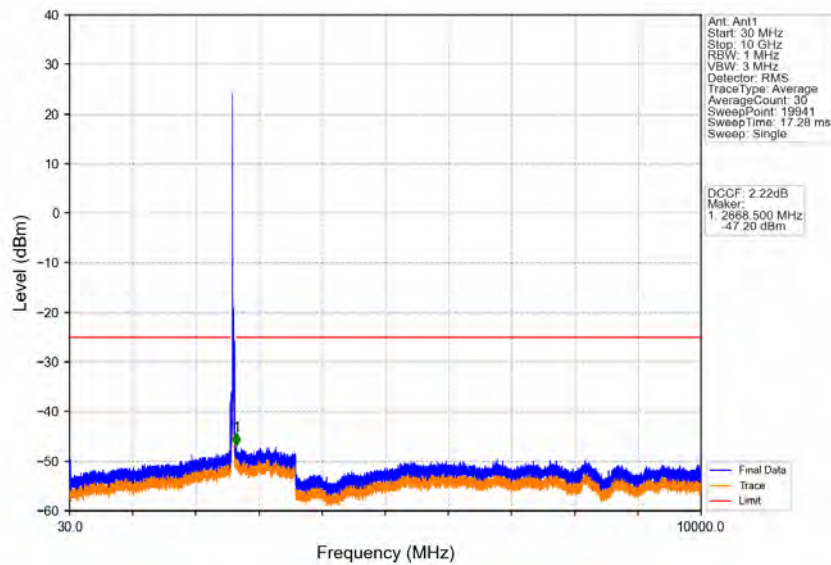
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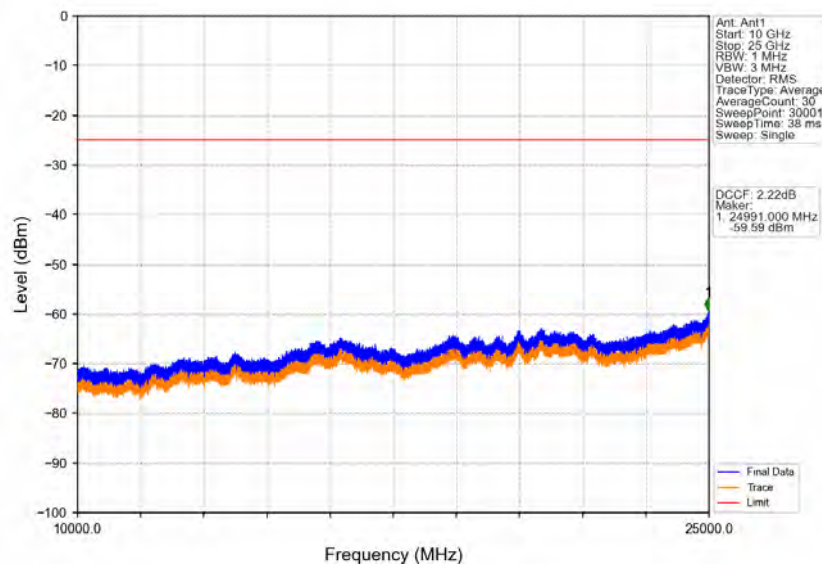
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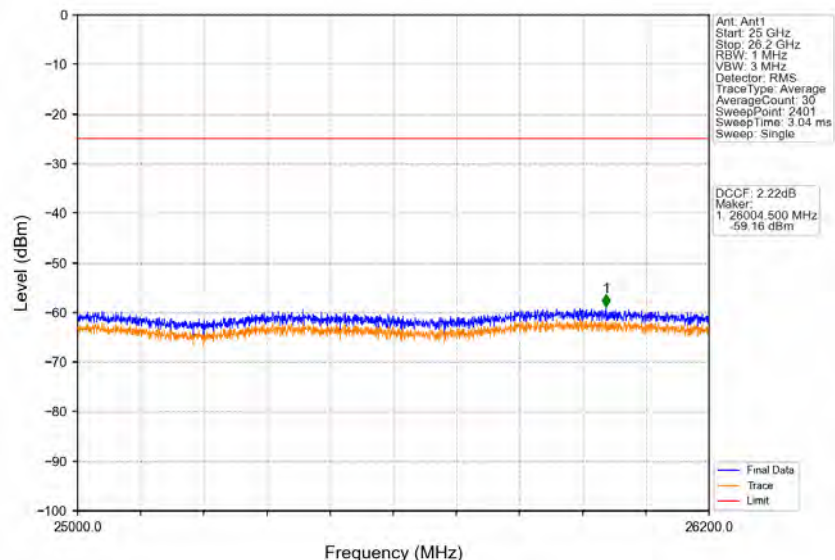
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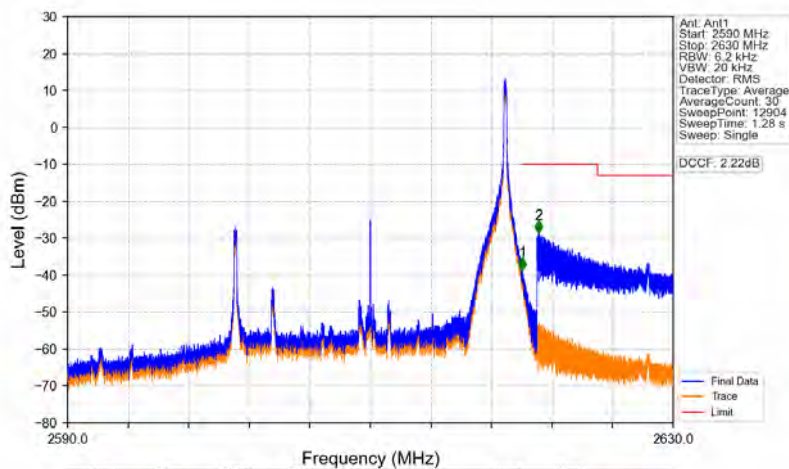
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Band38\_20MHz\_QPSK\_HCH\_2610MHz\_RB\_1\_0\_NTNV



Band38\_20MHz\_QPSK\_HCH\_2610MHz\_RB\_1\_99\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2590	2620	0.0062	0	/	/	/	/	/
2620	2621	0.0062	0	1	2620.033	-38.63	-10	Pass
2621	2630	1	22.08	2	2621.134	-28.65	-10	Pass



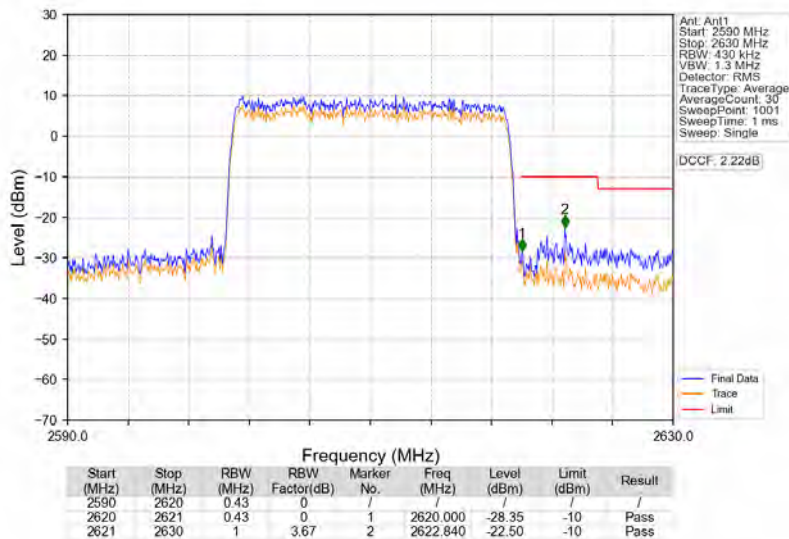
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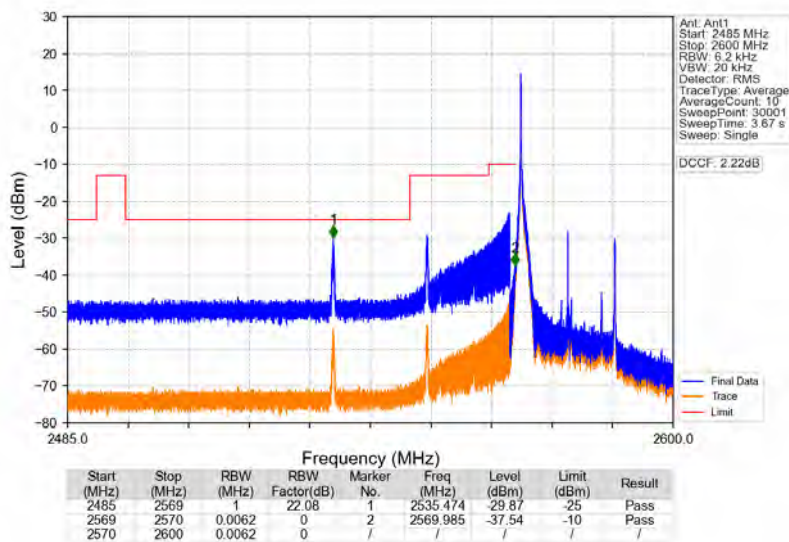
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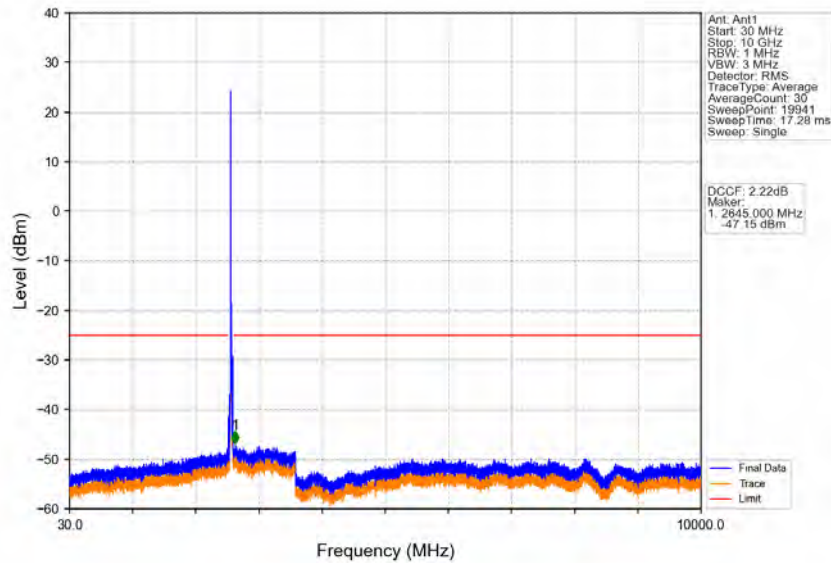
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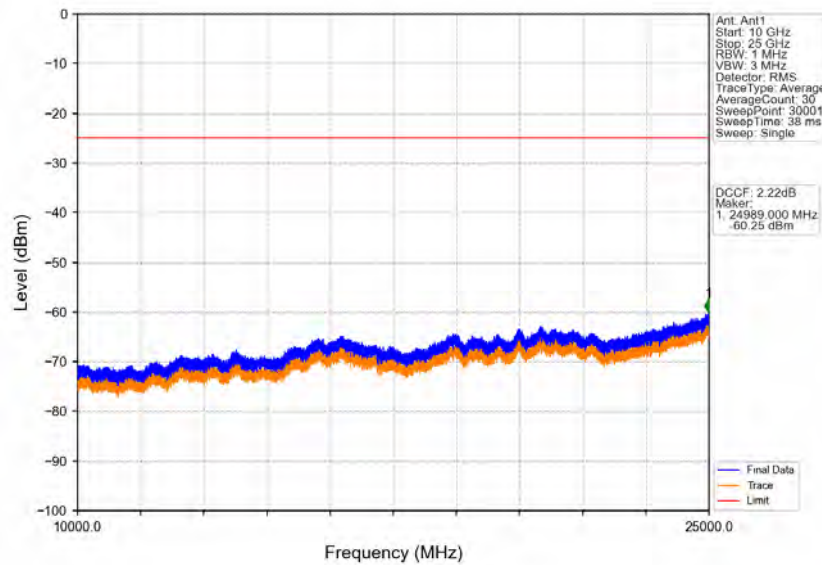
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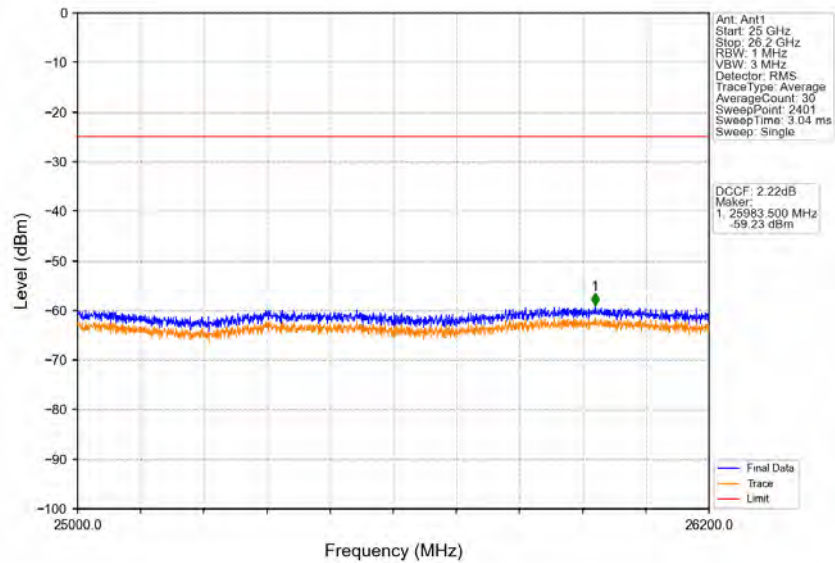
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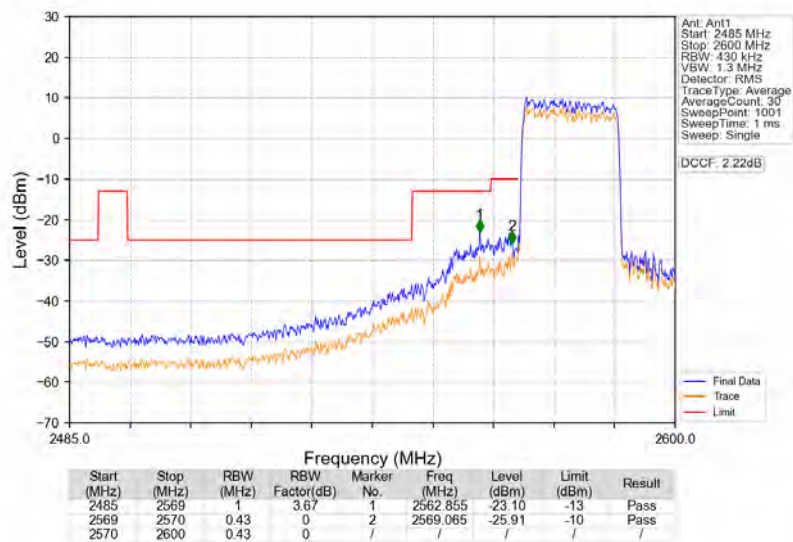
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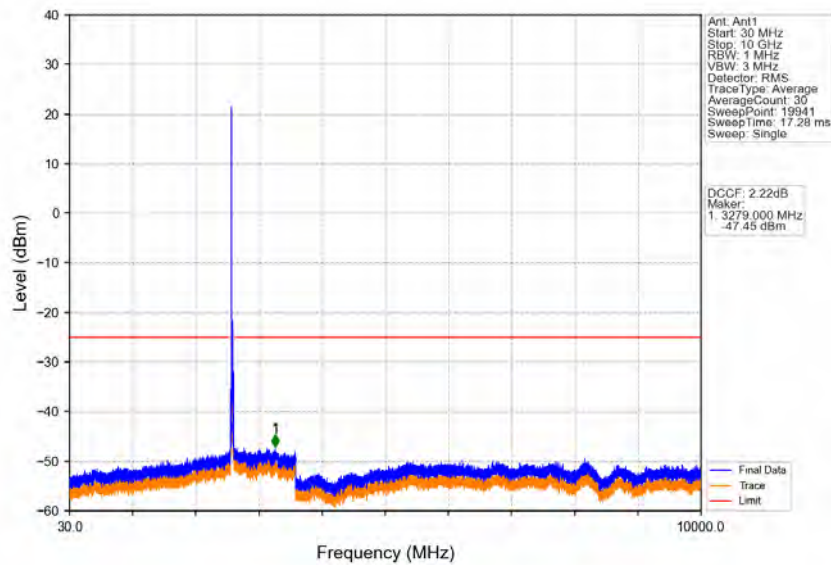
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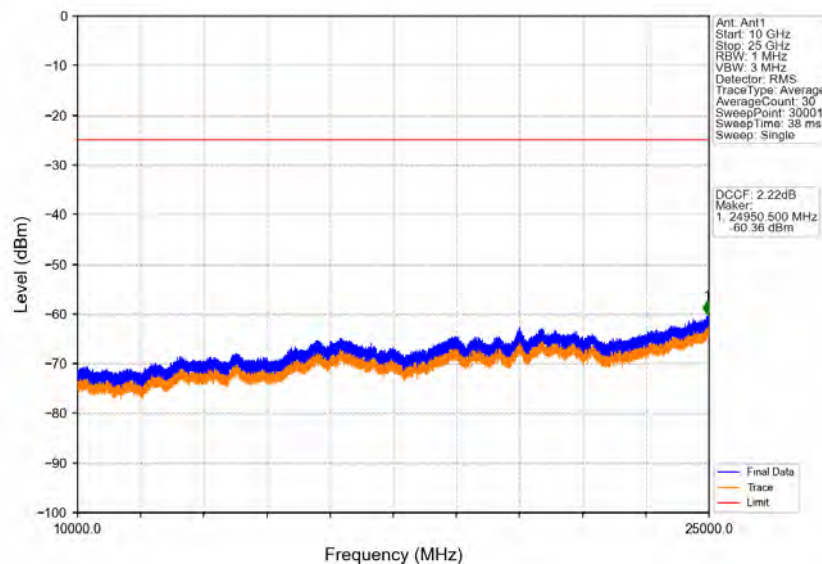
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Band38\_20MHz\_16QAM\_MCH\_2595MHz\_RB\_1\_0\_NTNV



Band38\_20MHz\_16QAM\_MCH\_2595MHz\_RB\_1\_0\_NTNV



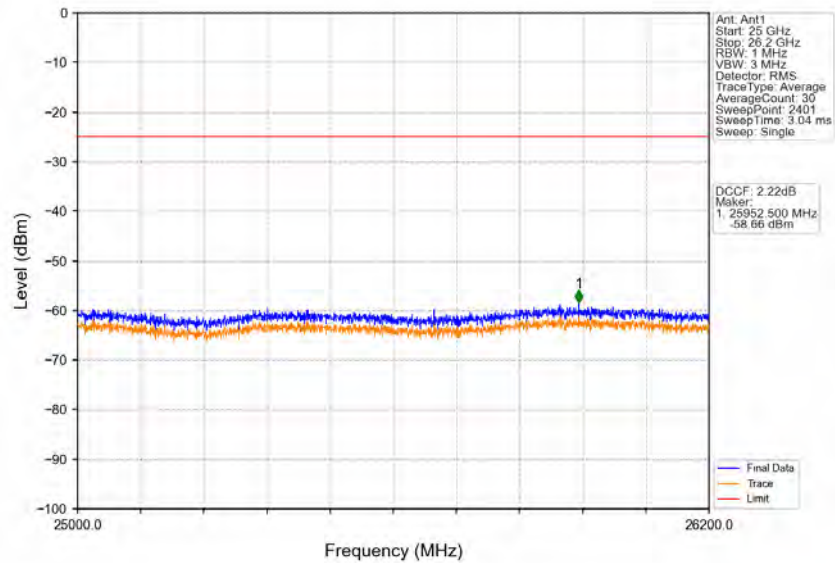
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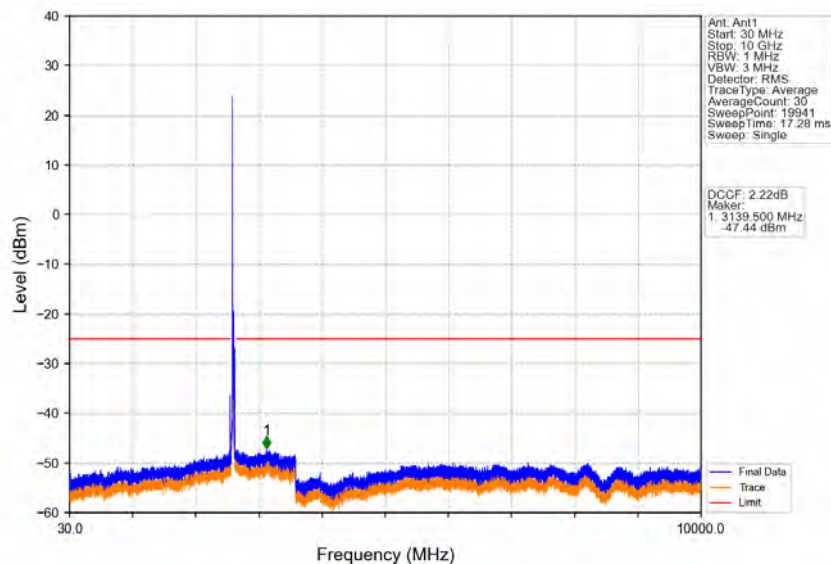
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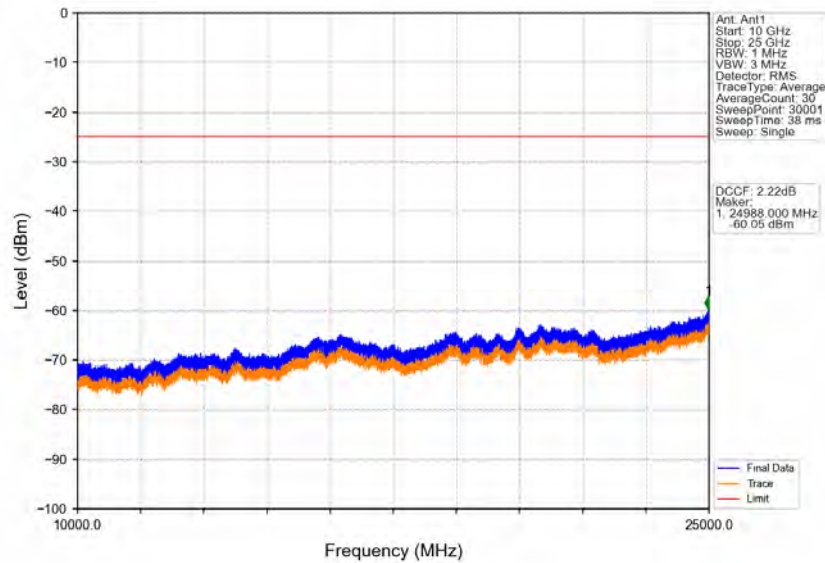
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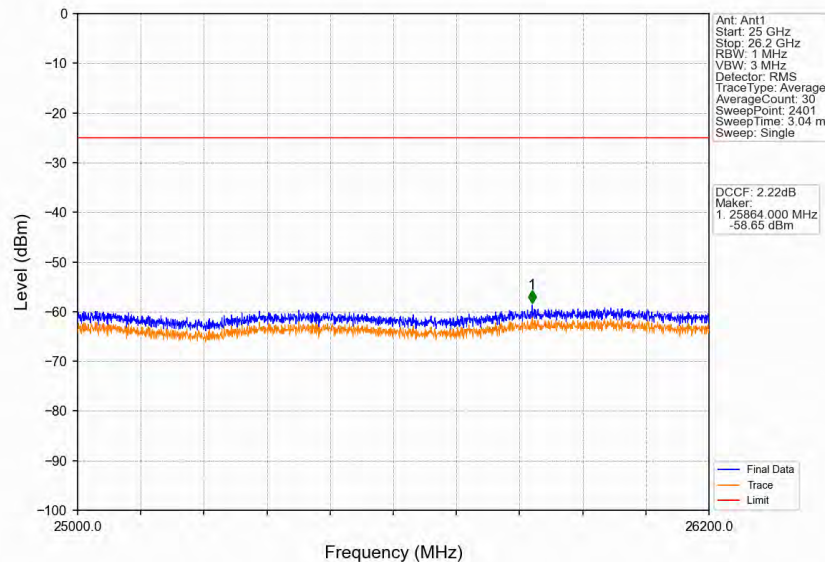
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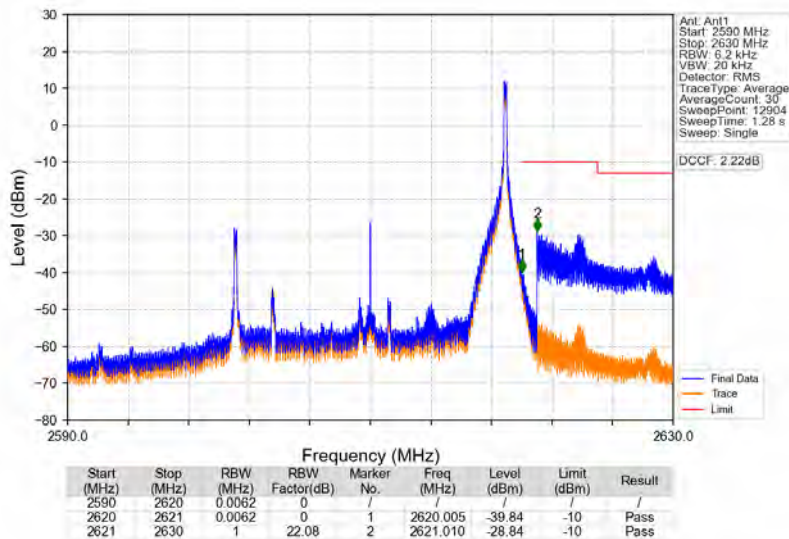
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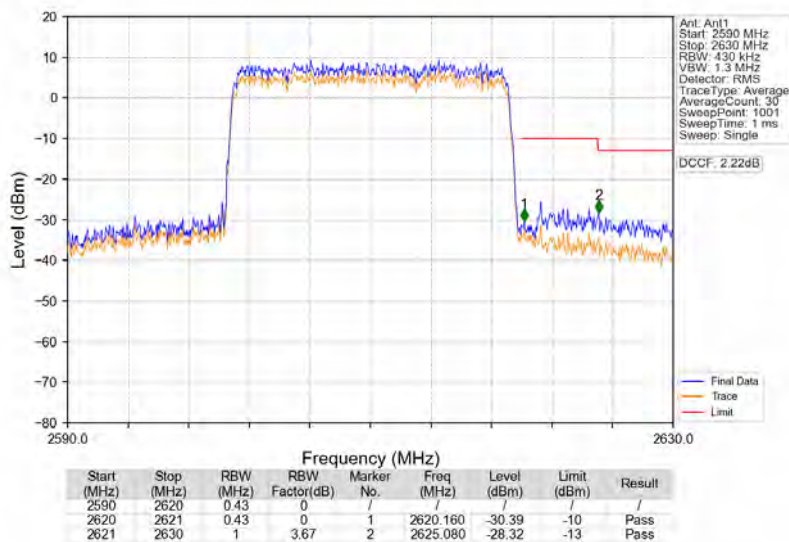
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### Band38\_20MHz\_16QAM\_HCH\_2610MHz\_RB\_1\_99\_NTNV



### Band38\_20MHz\_16QAM\_HCH\_2610MHz\_RB\_100\_0\_NTNV



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