



Report No.: SUCR240100000801

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Appendix B.19

LTE Band 38



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1. Effective (Isotropic) Radiated Power Output Data

1.1 B38_5MHz_EIRPant0

1.1.1 Test Result

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	23.01	2.14	25.15	<=33.00	Pass
			13	23.07	2.14	25.21	<=33.00	Pass
			24	22.97	2.14	25.11	<=33.00	Pass
		12	0	22.08	2.14	24.22	<=33.00	Pass
			6	22.23	2.14	24.37	<=33.00	Pass
			13	22.07	2.14	24.21	<=33.00	Pass
		25	0	22.14	2.14	24.28	<=33.00	Pass
	2595	1	0	23.50	2.14	25.64	<=33.00	Pass
			13	23.66	2.14	25.80	<=33.00	Pass
			24	23.31	2.14	25.45	<=33.00	Pass
		12	0	22.62	2.14	24.76	<=33.00	Pass
			6	22.74	2.14	24.88	<=33.00	Pass
			13	22.65	2.14	24.79	<=33.00	Pass
		25	0	22.61	2.14	24.75	<=33.00	Pass
	2617.5	1	0	23.72	2.14	25.86	<=33.00	Pass
			13	23.90	2.14	26.04	<=33.00	Pass
			24	23.72	2.14	25.86	<=33.00	Pass
		12	0	22.82	2.14	24.96	<=33.00	Pass
			6	22.82	2.14	24.96	<=33.00	Pass
			13	22.77	2.14	24.91	<=33.00	Pass
		25	0	22.84	2.14	24.98	<=33.00	Pass
16QAM	2572.5	1	0	22.10	2.14	24.24	<=33.00	Pass
			13	22.26	2.14	24.40	<=33.00	Pass
			24	22.38	2.14	24.52	<=33.00	Pass
		12	0	21.29	2.14	23.43	<=33.00	Pass
			6	21.52	2.14	23.66	<=33.00	Pass
			13	21.43	2.14	23.57	<=33.00	Pass
		25	0	21.52	2.14	23.66	<=33.00	Pass
	2595	1	0	22.60	2.14	24.74	<=33.00	Pass
			13	22.75	2.14	24.89	<=33.00	Pass
			24	22.58	2.14	24.72	<=33.00	Pass
		12	0	21.70	2.14	23.84	<=33.00	Pass
			6	21.79	2.14	23.93	<=33.00	Pass
			13	21.66	2.14	23.80	<=33.00	Pass
		25	0	21.71	2.14	23.85	<=33.00	Pass
	2617.5	1	0	22.75	2.14	24.89	<=33.00	Pass
			13	22.80	2.14	24.94	<=33.00	Pass
			24	22.69	2.14	24.83	<=33.00	Pass
		12	0	21.87	2.14	24.01	<=33.00	Pass



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		6	21.98	2.14	24.12	<=33.00	Pass
		13	21.86	2.14	24.00	<=33.00	Pass
		25	21.83	2.14	23.97	<=33.00	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	23.58	2.14	25.72	<=33.00	Pass
			25	23.74	2.14	25.88	<=33.00	Pass
			49	23.52	2.14	25.66	<=33.00	Pass
		25	0	22.65	2.14	24.79	<=33.00	Pass
			13	22.63	2.14	24.77	<=33.00	Pass
			25	22.59	2.14	24.73	<=33.00	Pass
		50	0	22.53	2.14	24.67	<=33.00	Pass
			0	23.70	2.14	25.84	<=33.00	Pass
			25	23.82	2.14	25.96	<=33.00	Pass
	2595	1	49	23.64	2.14	25.78	<=33.00	Pass
			0	22.72	2.14	24.86	<=33.00	Pass
			13	22.72	2.14	24.86	<=33.00	Pass
		25	25	22.62	2.14	24.76	<=33.00	Pass
			0	22.67	2.14	24.81	<=33.00	Pass
			0	23.79	2.14	25.93	<=33.00	Pass
		50	25	23.96	2.14	26.10	<=33.00	Pass
			49	23.83	2.14	25.97	<=33.00	Pass
			0	22.91	2.14	25.05	<=33.00	Pass
	2615	25	13	22.81	2.14	24.95	<=33.00	Pass
			25	22.75	2.14	24.89	<=33.00	Pass
			0	22.81	2.14	24.95	<=33.00	Pass
16QAM	2575	1	0	22.73	2.14	24.87	<=33.00	Pass
			25	22.73	2.14	24.87	<=33.00	Pass
			49	22.65	2.14	24.79	<=33.00	Pass
		25	0	21.66	2.14	23.80	<=33.00	Pass
			13	21.71	2.14	23.85	<=33.00	Pass
			25	21.68	2.14	23.82	<=33.00	Pass
		50	0	21.67	2.14	23.81	<=33.00	Pass
			0	22.43	2.14	24.57	<=33.00	Pass
			25	22.75	2.14	24.89	<=33.00	Pass
	2595	1	49	22.47	2.14	24.61	<=33.00	Pass
			0	21.82	2.14	23.96	<=33.00	Pass
			13	21.76	2.14	23.90	<=33.00	Pass
		25	25	21.68	2.14	23.82	<=33.00	Pass
			0	21.74	2.14	23.88	<=33.00	Pass
			0					



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	2615	1	0	22.42	2.14	24.56	<=33.00	Pass
			25	22.86	2.14	25.00	<=33.00	Pass
			49	22.66	2.14	24.80	<=33.00	Pass
		25	0	21.87	2.14	24.01	<=33.00	Pass
			13	21.83	2.14	23.97	<=33.00	Pass
			25	21.79	2.14	23.93	<=33.00	Pass
		50	0	21.91	2.14	24.05	<=33.00	Pass

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	23.60	2.14	25.74	<=33.00	Pass
			38	23.64	2.14	25.78	<=33.00	Pass
			74	23.51	2.14	25.65	<=33.00	Pass
		36	0	22.66	2.14	24.80	<=33.00	Pass
			18	22.64	2.14	24.78	<=33.00	Pass
			39	22.60	2.14	24.74	<=33.00	Pass
		75	0	22.69	2.14	24.83	<=33.00	Pass
	2595	1	0	23.60	2.14	25.74	<=33.00	Pass
			38	23.69	2.14	25.83	<=33.00	Pass
			74	23.58	2.14	25.72	<=33.00	Pass
		36	0	22.77	2.14	24.91	<=33.00	Pass
			18	22.71	2.14	24.85	<=33.00	Pass
			39	22.64	2.14	24.78	<=33.00	Pass
		75	0	22.71	2.14	24.85	<=33.00	Pass
	2612.5	1	0	23.73	2.14	25.87	<=33.00	Pass
			38	23.85	2.14	25.99	<=33.00	Pass
			74	23.65	2.14	25.79	<=33.00	Pass
		36	0	22.83	2.14	24.97	<=33.00	Pass
			18	22.84	2.14	24.98	<=33.00	Pass
			39	22.78	2.14	24.92	<=33.00	Pass
		75	0	22.85	2.14	24.99	<=33.00	Pass
16QAM	2577.5	1	0	22.61	2.14	24.75	<=33.00	Pass
			38	22.68	2.14	24.82	<=33.00	Pass
			74	22.52	2.14	24.66	<=33.00	Pass
		36	0	21.67	2.14	23.81	<=33.00	Pass
			18	21.70	2.14	23.84	<=33.00	Pass
			39	21.62	2.14	23.76	<=33.00	Pass
		75	0	21.67	2.14	23.81	<=33.00	Pass
	2595	1	0	22.51	2.14	24.65	<=33.00	Pass
			38	22.47	2.14	24.61	<=33.00	Pass
			74	22.41	2.14	24.55	<=33.00	Pass



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		36	0	21.74	2.14	23.88	<=33.00	Pass
			18	21.67	2.14	23.81	<=33.00	Pass
			39	21.62	2.14	23.76	<=33.00	Pass
		75	0	21.72	2.14	23.86	<=33.00	Pass
	2612.5	1	0	22.78	2.14	24.92	<=33.00	Pass
			38	22.91	2.14	25.05	<=33.00	Pass
			74	22.62	2.14	24.76	<=33.00	Pass
		36	0	21.90	2.14	24.04	<=33.00	Pass
			18	21.75	2.14	23.89	<=33.00	Pass
			39	21.77	2.14	23.91	<=33.00	Pass
		75	0	21.77	2.14	23.91	<=33.00	Pass
Note1: EIRP=Conducted Power+Antenna Gain								

Note1: EIRP=Conducted Power+Antenna Gain

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	23.52	2.14	25.66	<=33.00	Pass
			50	23.85	2.14	25.99	<=33.00	Pass
			99	23.49	2.14	25.63	<=33.00	Pass
		50	0	22.64	2.14	24.78	<=33.00	Pass
			25	22.60	2.14	24.74	<=33.00	Pass
			50	22.53	2.14	24.67	<=33.00	Pass
		100	0	22.58	2.14	24.72	<=33.00	Pass
	2595	1	0	23.53	2.14	25.67	<=33.00	Pass
			50	23.72	2.14	25.86	<=33.00	Pass
			99	23.58	2.14	25.72	<=33.00	Pass
		50	0	22.69	2.14	24.83	<=33.00	Pass
			25	22.68	2.14	24.82	<=33.00	Pass
			50	22.58	2.14	24.72	<=33.00	Pass
		100	0	22.66	2.14	24.80	<=33.00	Pass
	2610	1	0	23.66	2.14	25.80	<=33.00	Pass
			50	23.87	2.14	26.01	<=33.00	Pass
			99	23.55	2.14	25.69	<=33.00	Pass
		50	0	22.81	2.14	24.95	<=33.00	Pass
			25	22.78	2.14	24.92	<=33.00	Pass
			50	22.64	2.14	24.78	<=33.00	Pass
		100	0	22.74	2.14	24.88	<=33.00	Pass
16QAM	2580	1	0	22.59	2.14	24.73	<=33.00	Pass
			50	22.68	2.14	24.82	<=33.00	Pass
			99	22.42	2.14	24.56	<=33.00	Pass
		50	0	21.70	2.14	23.84	<=33.00	Pass
			25	21.71	2.14	23.85	<=33.00	Pass
			50	21.61	2.14	23.75	<=33.00	Pass



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		100	0	21.67	2.14	23.81	<=33.00	Pass	
	2595	1	0	22.72	2.14	24.86	<=33.00	Pass	
			50	22.60	2.14	24.74	<=33.00	Pass	
			99	22.25	2.14	24.39	<=33.00	Pass	
			0	21.79	2.14	23.93	<=33.00	Pass	
		50	25	21.72	2.14	23.86	<=33.00	Pass	
			50	21.65	2.14	23.79	<=33.00	Pass	
			100	0	21.72	2.14	23.86	<=33.00	Pass
	2610	1	0	22.17	2.14	24.31	<=33.00	Pass	
			50	23.05	2.14	25.19	<=33.00	Pass	
			99	22.78	2.14	24.92	<=33.00	Pass	
			0	21.91	2.14	24.05	<=33.00	Pass	
		50	25	21.83	2.14	23.97	<=33.00	Pass	
			50	21.74	2.14	23.88	<=33.00	Pass	
			100	0	21.80	2.14	23.94	<=33.00	Pass
	Note1: EIRP=Conducted Power+Antenna Gain								



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2. Frequency Stability

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	8	-1.193	-0.0005	/	Pass
					12	-3.540	-0.0014	/	Pass
					16	4.070	0.0016	/	Pass
				-30	12	-5.810	-0.0023	/	Pass
					12	0.073	0.0000	/	Pass
					12	1.937	0.0008	/	Pass
				0	12	-0.458	-0.0002	/	Pass
					12	-2.945	-0.0011	/	Pass
					12	-3.128	-0.0012	/	Pass
				40	12	-7.303	-0.0028	/	Pass
					12	-5.965	-0.0023	/	Pass
					12	-8.272	-0.0032	/	Pass
	2595	100	0	20	8	-2.098	-0.0008	/	Pass
					12	-10.549	-0.0040	/	Pass
					16	-7.340	-0.0028	/	Pass
				-30	12	-2.156	-0.0008	/	Pass
					12	-2.753	-0.0011	/	Pass
					12	-13.587	-0.0052	/	Pass
				0	12	-0.921	-0.0004	/	Pass
					12	-11.256	-0.0043	/	Pass
					12	-3.192	-0.0012	/	Pass
				40	12	-7.269	-0.0028	/	Pass
					12	-10.380	-0.0040	/	Pass
					12	-4.933	-0.0019	/	Pass
16QAM	2580	100	0	20	8	-4.933	-0.0019	/	Pass
					12	-1.830	-0.0007	/	Pass
					16	-2.147	-0.0008	/	Pass
				-30	12	-6.786	-0.0026	/	Pass
					12	-3.011	-0.0012	/	Pass
					12	-1.775	-0.0007	/	Pass



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				0	12	3.956	0.0015	/	Pass
				10	12	-3.600	-0.0014	/	Pass
				30	12	-4.551	-0.0018	/	Pass
				40	12	-7.206	-0.0028	/	Pass
				50	12	-6.660	-0.0026	/	Pass
	2595	100	0	20	8	-5.281	-0.0020	/	Pass
					12	-4.048	-0.0016	/	Pass
					16	-6.624	-0.0026	/	Pass
				-30	12	-3.086	-0.0012	/	Pass
				-20	12	-7.807	-0.0030	/	Pass
				-10	12	-8.358	-0.0032	/	Pass
				0	12	-4.042	-0.0016	/	Pass
				10	12	-4.967	-0.0019	/	Pass
				30	12	-7.199	-0.0028	/	Pass
				40	12	-2.211	-0.0009	/	Pass
				50	12	-11.708	-0.0045	/	Pass
	2610	100	0	20	8	-11.315	-0.0043	/	Pass
					12	-8.655	-0.0033	/	Pass
					16	-6.667	-0.0026	/	Pass
				-30	12	-6.462	-0.0025	/	Pass
				-20	12	-0.905	-0.0003	/	Pass
				-10	12	-7.140	-0.0027	/	Pass
				0	12	-5.427	-0.0021	/	Pass
				10	12	-10.760	-0.0041	/	Pass
				30	12	-3.114	-0.0012	/	Pass
				40	12	-8.622	-0.0033	/	Pass
				50	12	-5.114	-0.0020	/	Pass



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3. 99% & 26dB Bandwidth

3.1 Band38_OBW

3.1.1 Test Result

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	4.538	/	Pass
		2595	25	0	4.549	/	Pass
		2617.5	25	0	4.540	/	Pass
	16QAM	2572.5	25	0	4.558	/	Pass
		2595	25	0	4.540	/	Pass
		2617.5	25	0	4.532	/	Pass
10	QPSK	2575	50	0	9.071	/	Pass
		2595	50	0	9.070	/	Pass
		2615	50	0	9.071	/	Pass
	16QAM	2575	50	0	9.057	/	Pass
		2595	50	0	9.054	/	Pass
		2615	50	0	9.065	/	Pass
15	QPSK	2577.5	75	0	13.614	/	Pass
		2595	75	0	13.566	/	Pass
		2612.5	75	0	13.541	/	Pass
	16QAM	2577.5	75	0	13.591	/	Pass
		2595	75	0	13.553	/	Pass
		2612.5	75	0	13.622	/	Pass
20	QPSK	2580	100	0	18.139	/	Pass
		2595	100	0	18.074	/	Pass
		2610	100	0	18.150	/	Pass
	16QAM	2580	100	0	18.060	/	Pass
		2595	100	0	18.107	/	Pass
		2610	100	0	18.142	/	Pass



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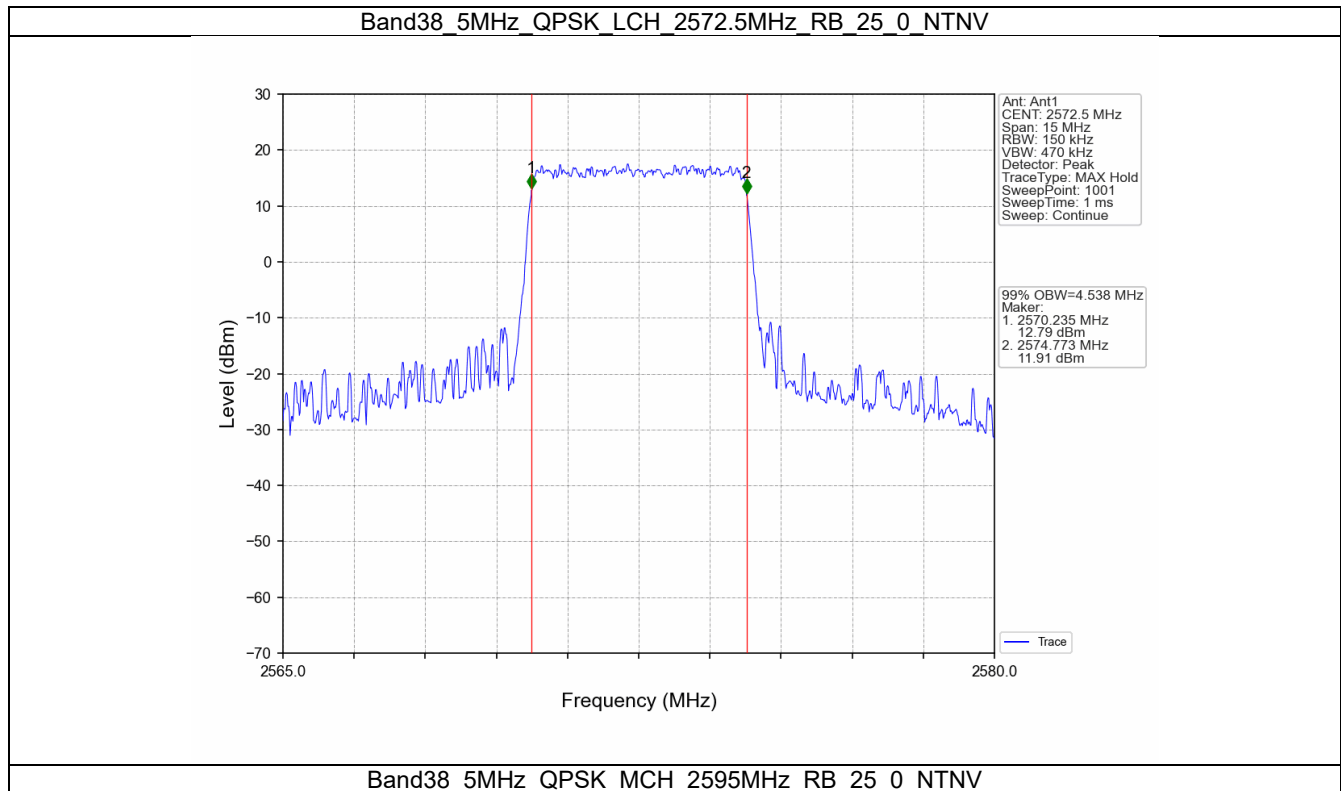
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3.1.2 Test Graph



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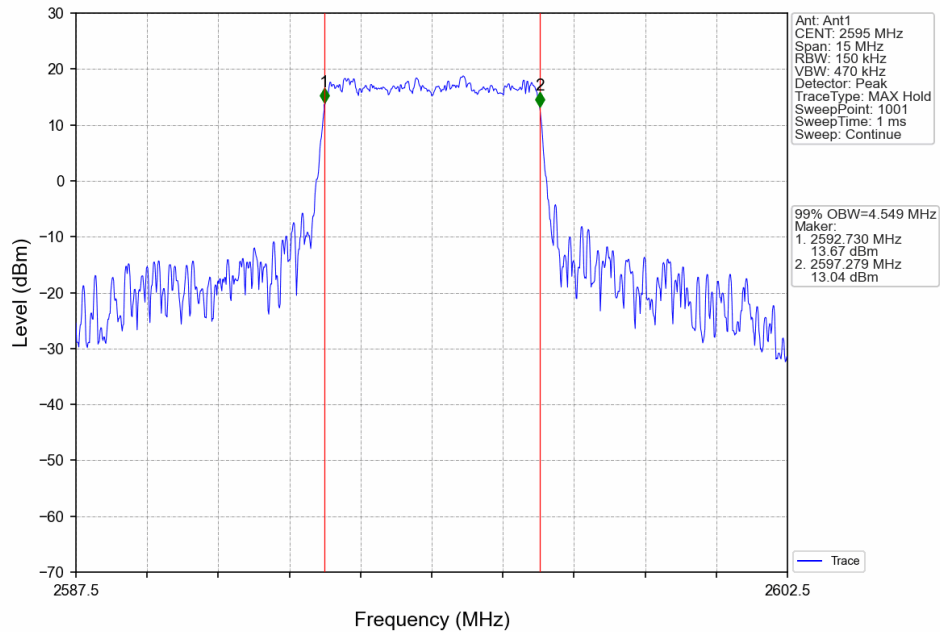
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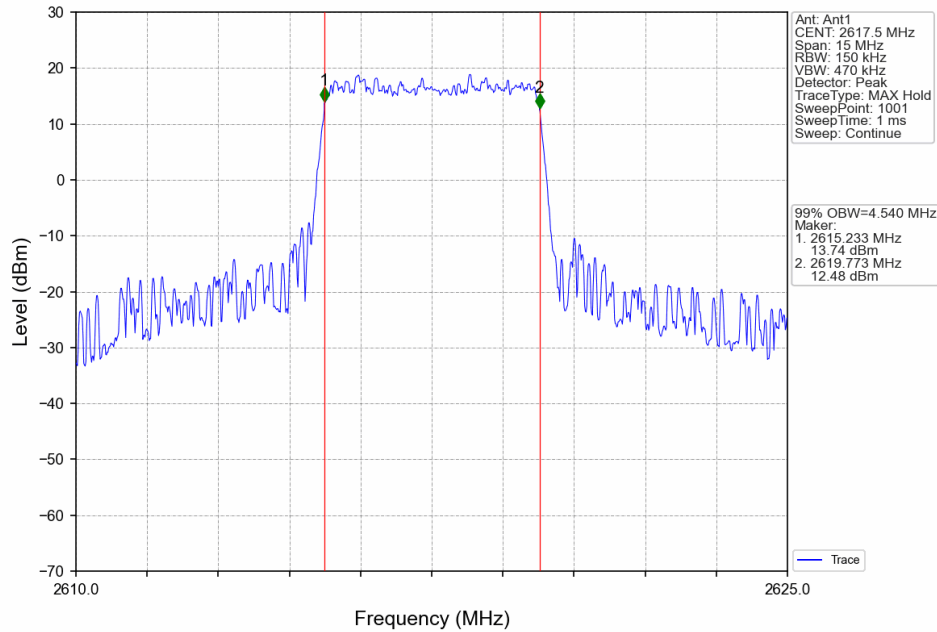
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Band38_5MHz_QPSK_HCH_2617.5MHz_RB_25_0_NTNV



Band38_5MHz_16QAM_LCH_2572.5MHz_RB_25_0_NTNV



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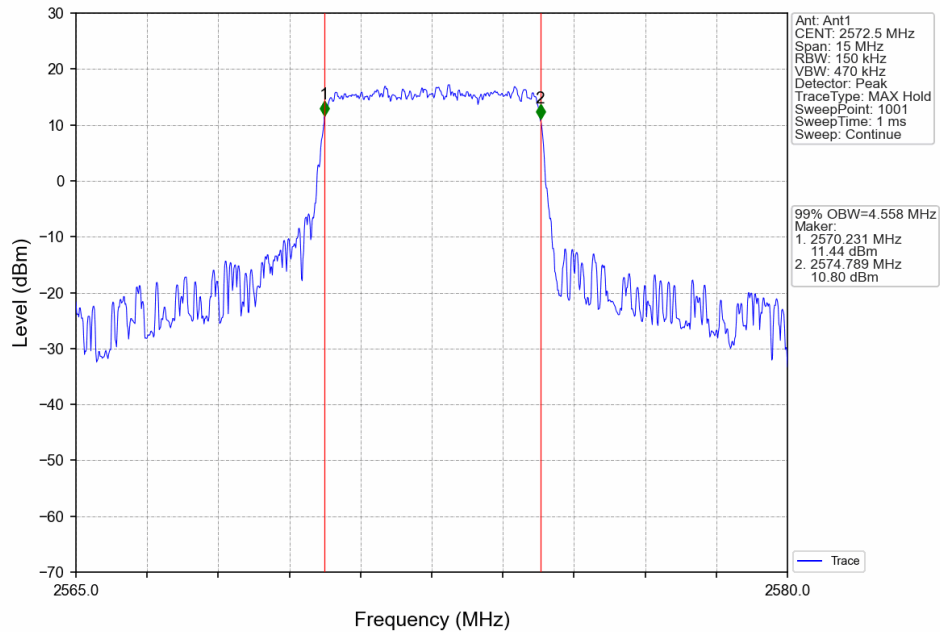
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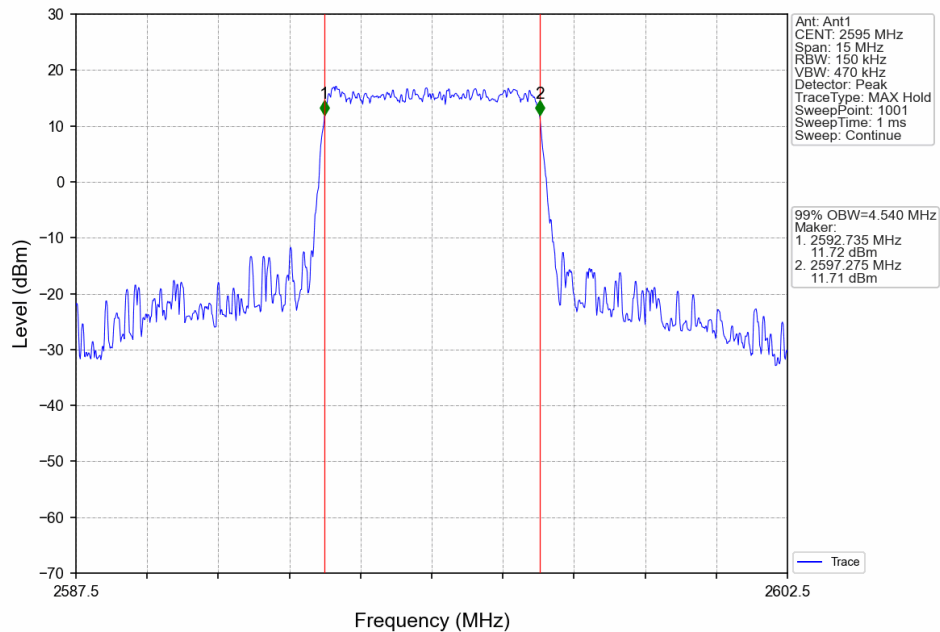
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Band38_5MHz_16QAM_HCH_2617.5MHz_RB_25_0_NTNV



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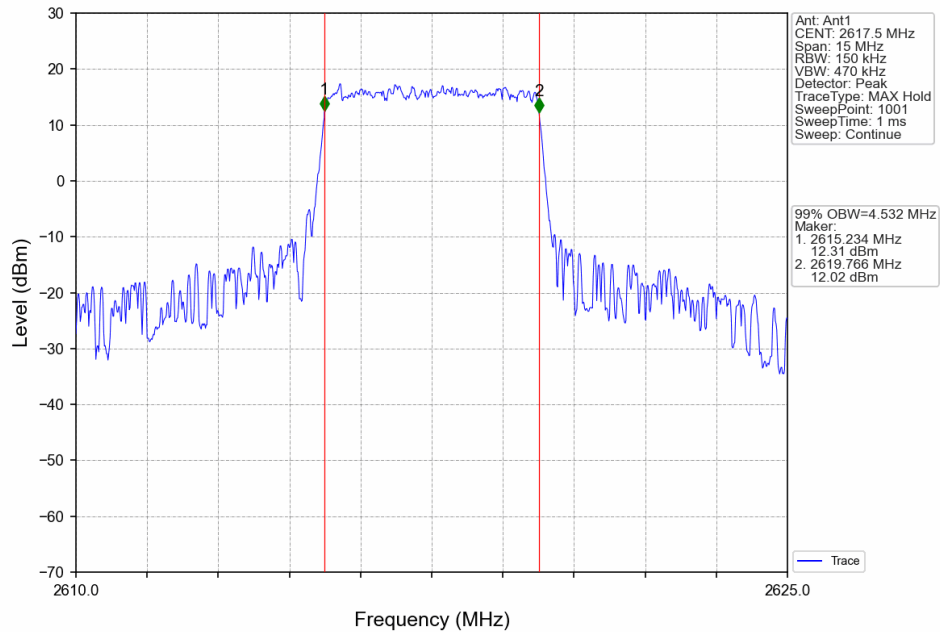
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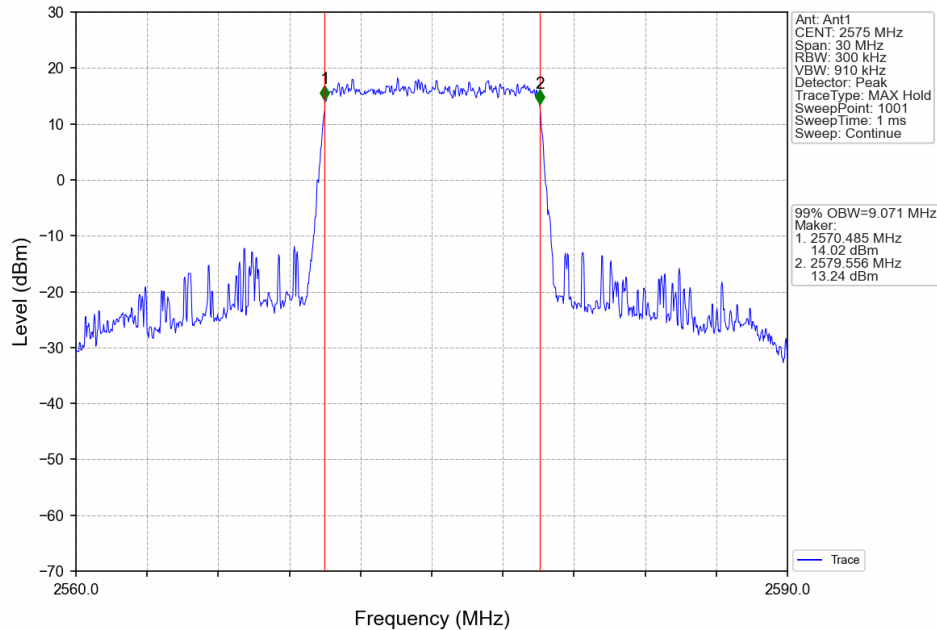
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Band38_10MHz_QPSK_LCH_2575MHz_RB_50_0_NTNV



Band38_10MHz_QPSK_MCH_2595MHz_RB_50_0_NTNV



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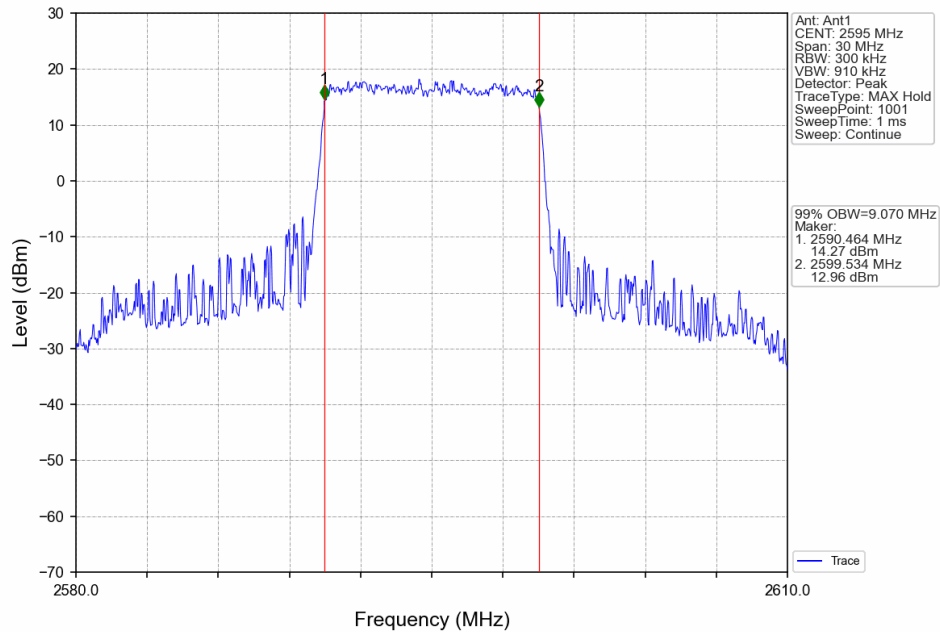
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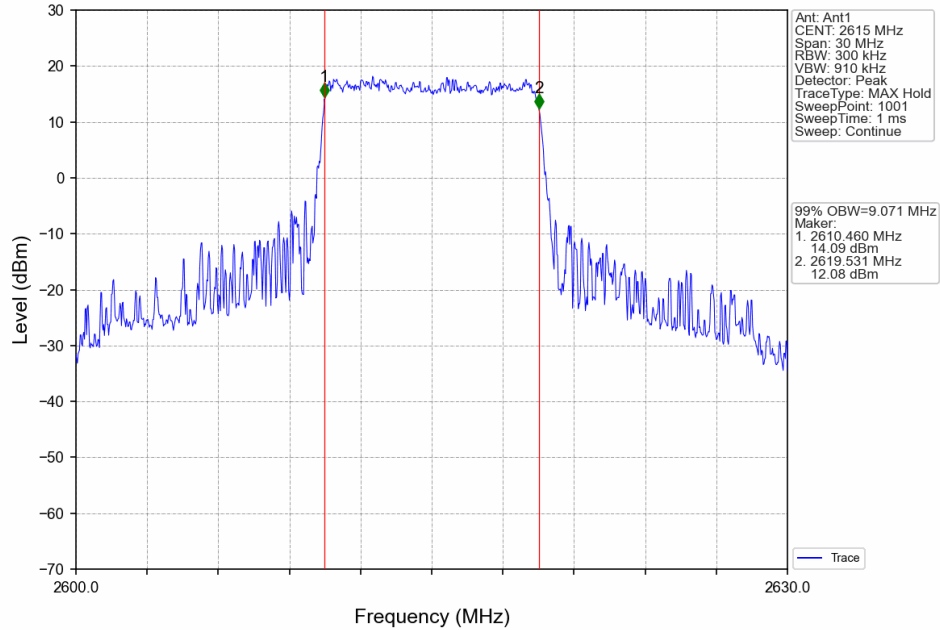
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Band38_10MHz_QPSK_HCH_2615MHz_RB_50_0_NTNV



Band38_10MHz_16QAM_LCH_2575MHz_RB_50_0_NTNV



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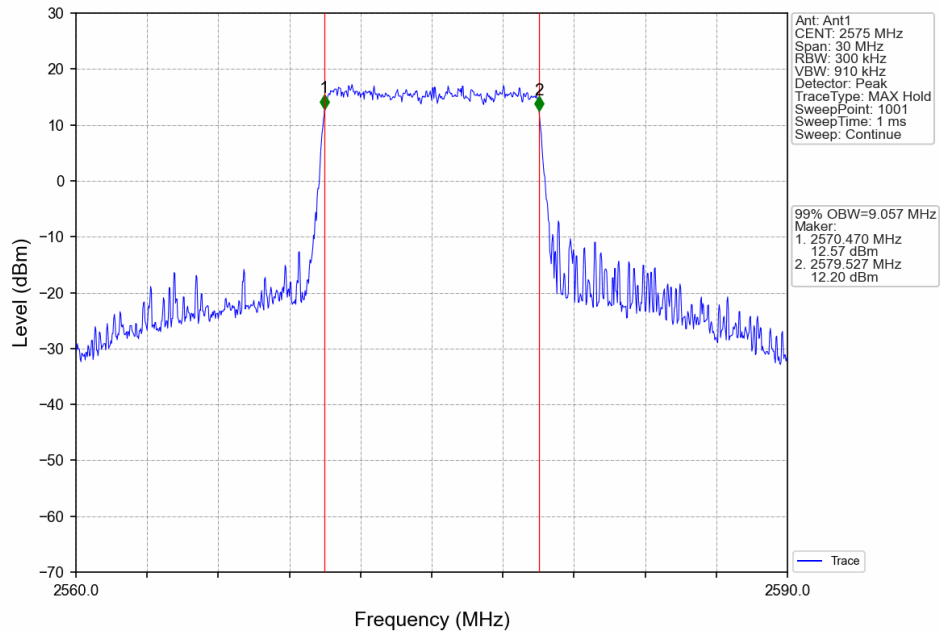
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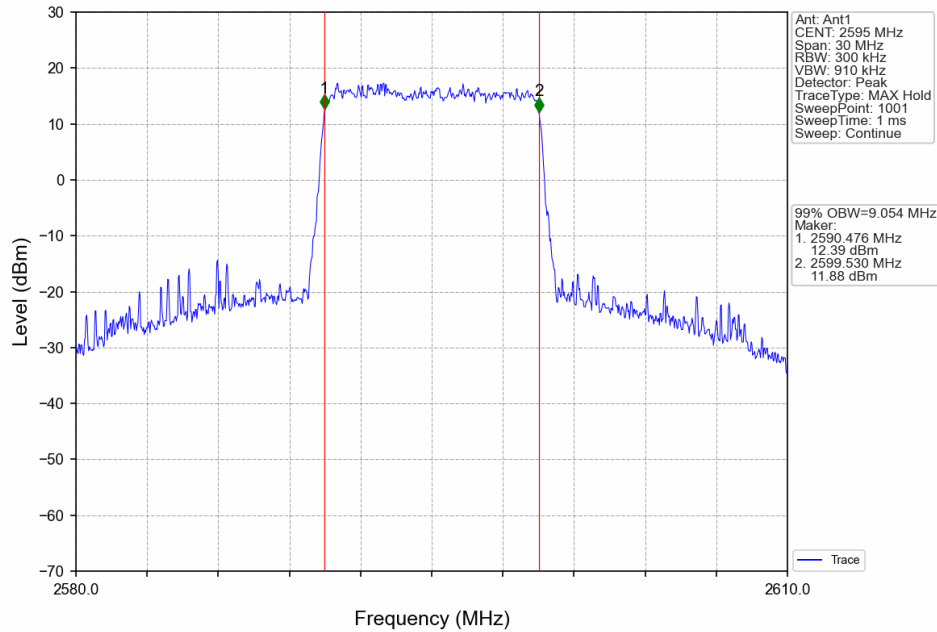
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Band38 10MHz 16QAM MCH 2595MHz RB 50 0 NTNV



Band38 10MHz 16QAM HCH 2615MHz RB 50 0 NTNV



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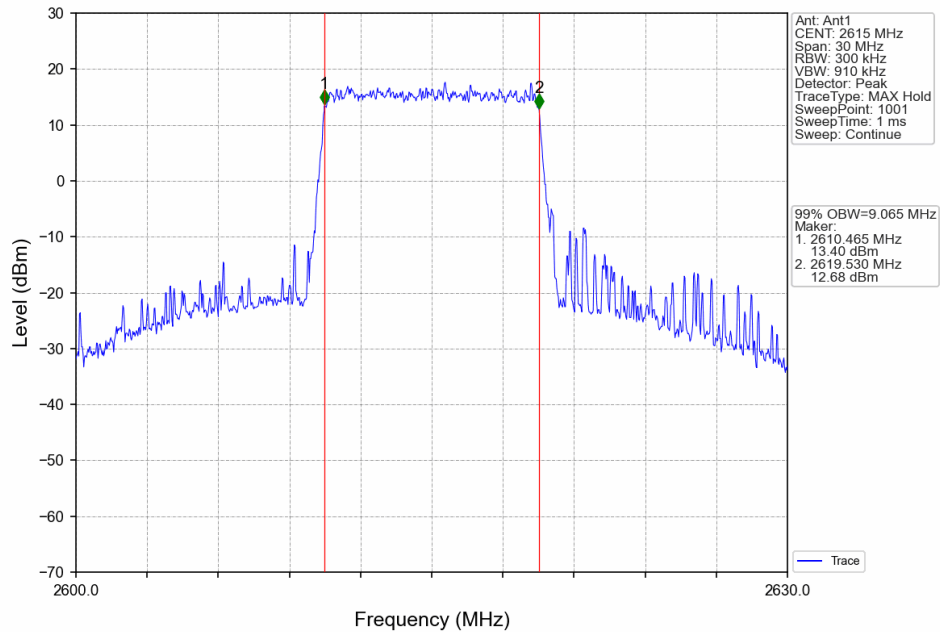
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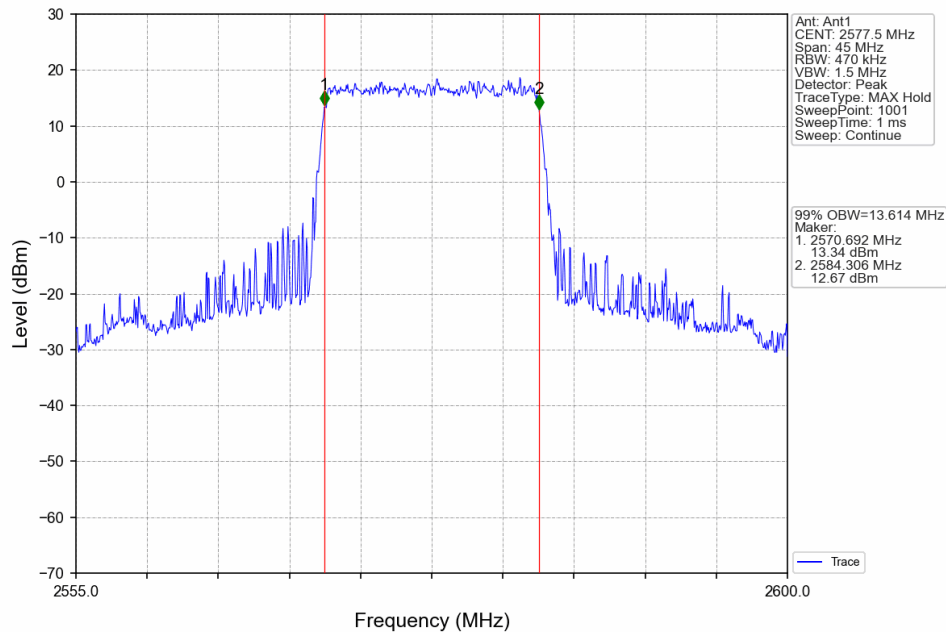
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Band38_15MHz_QPSK_LCH_2577.5MHz_RB_75_0_NTNV



Band38_15MHz_QPSK_MCH_2595MHz_RB_75_0_NTNV



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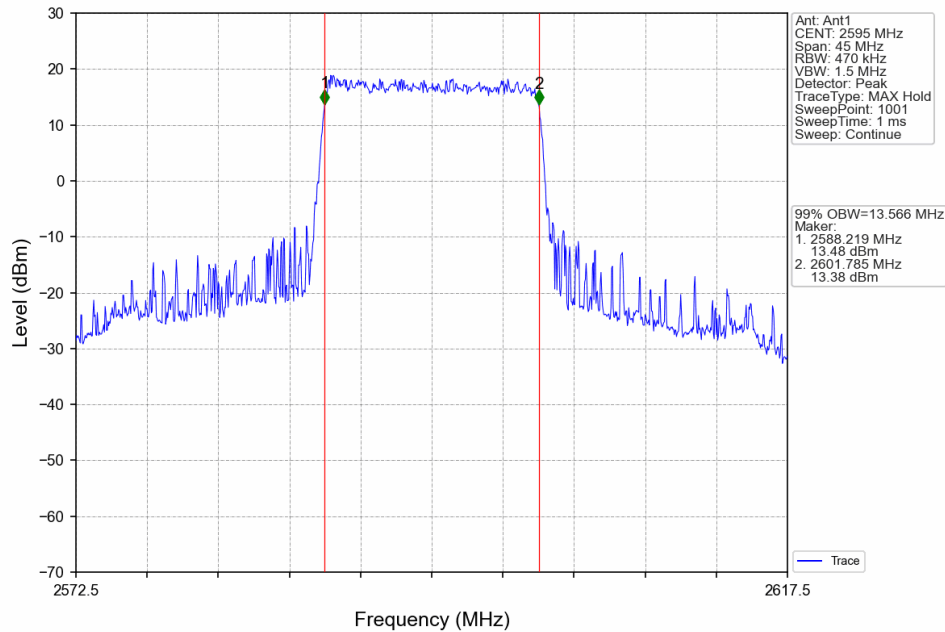
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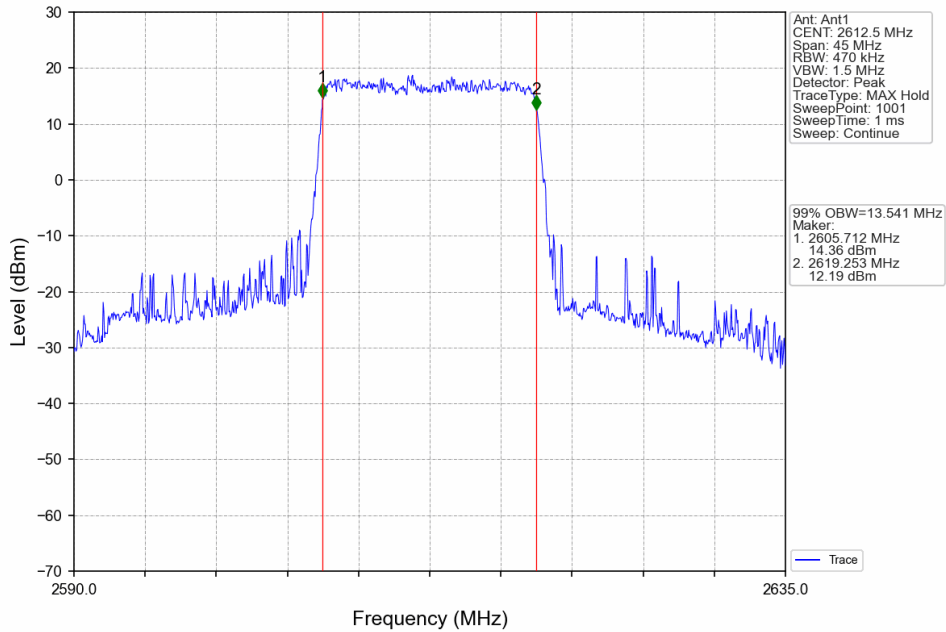
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Band38_15MHz_16QAM_LCH_2577.5MHz_RB_75_0_NTNV



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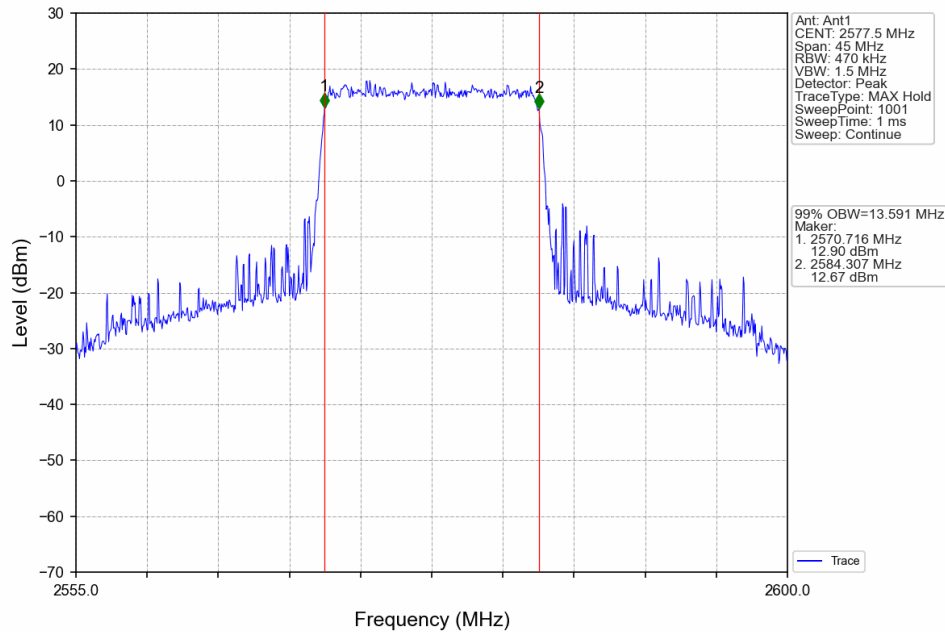
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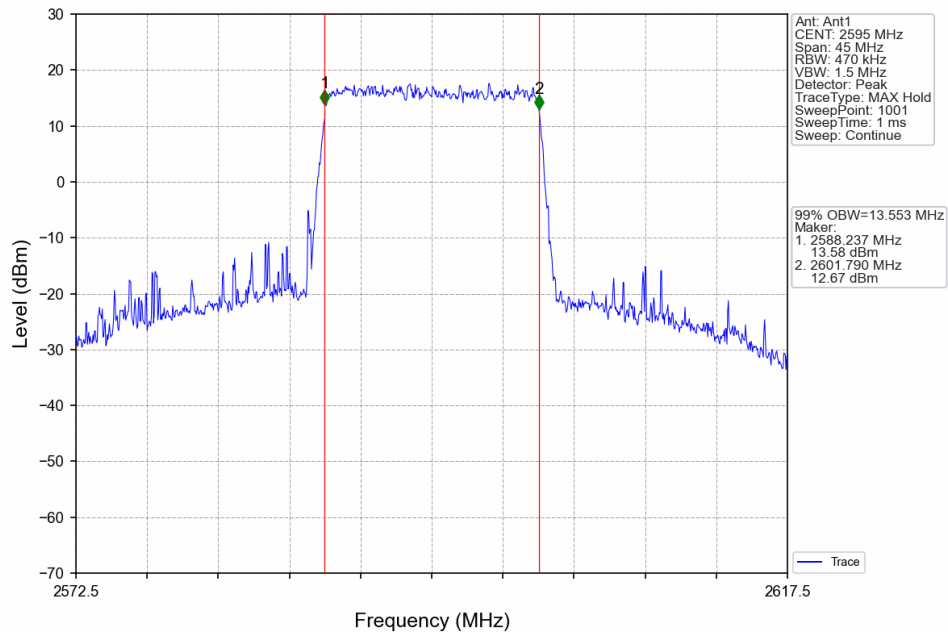
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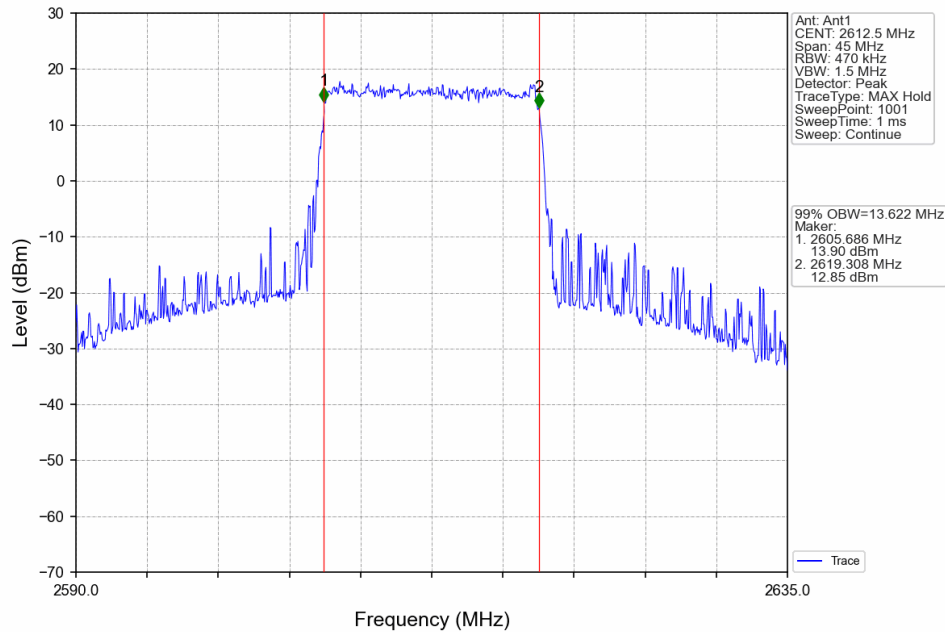
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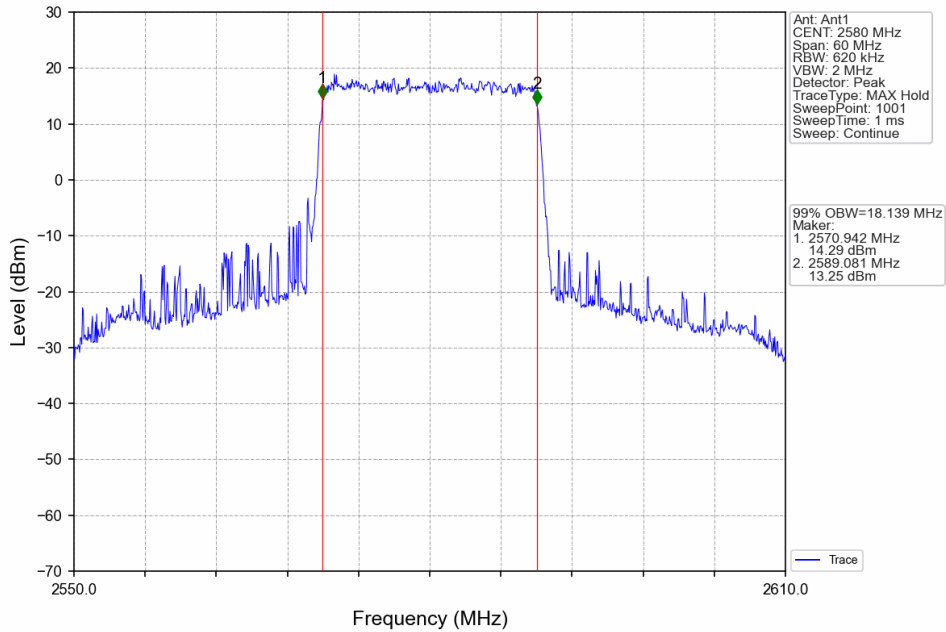
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Band38 20MHz QPSK LCH 2580MHz RB 100 0 NTN



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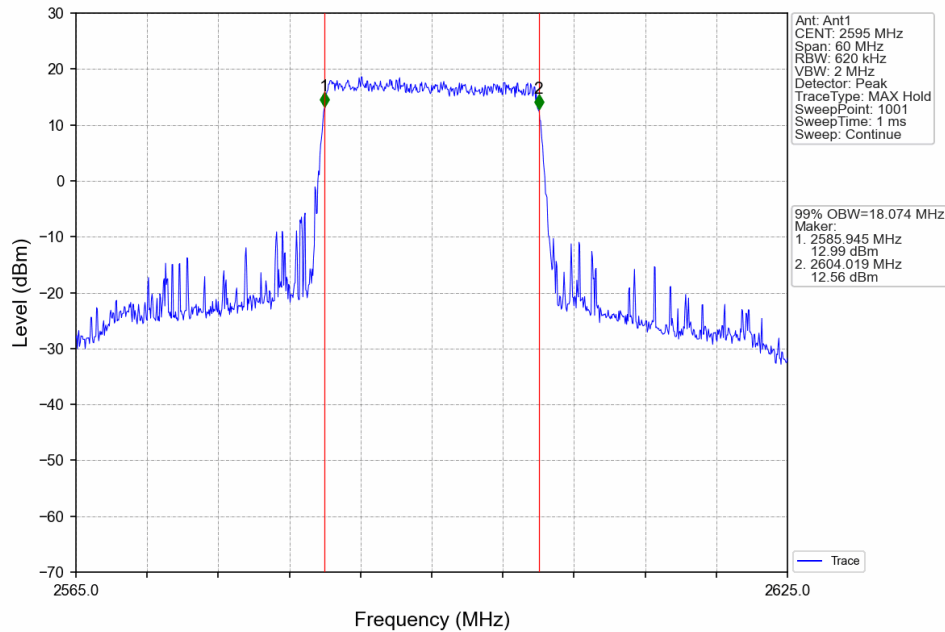
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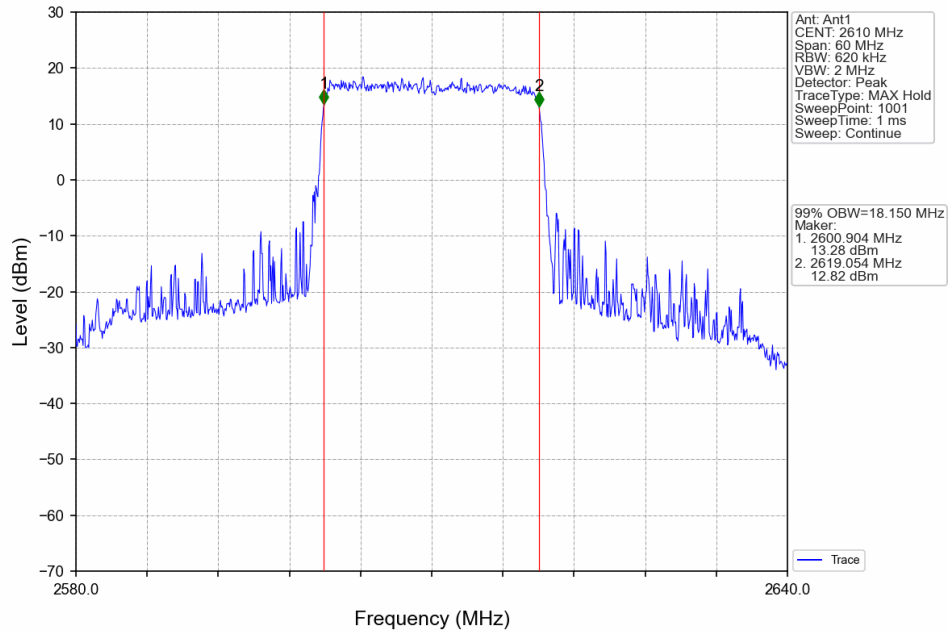
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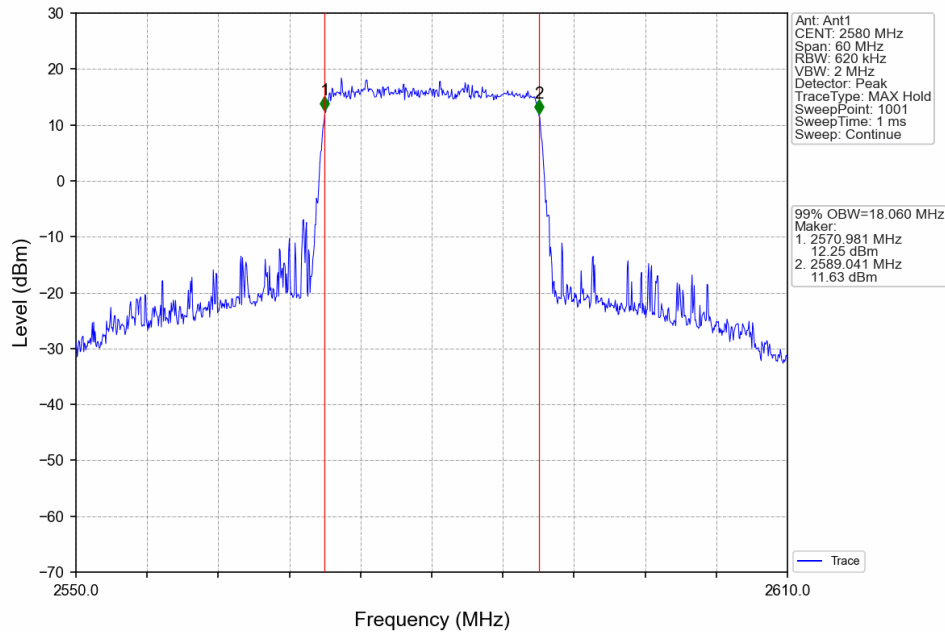
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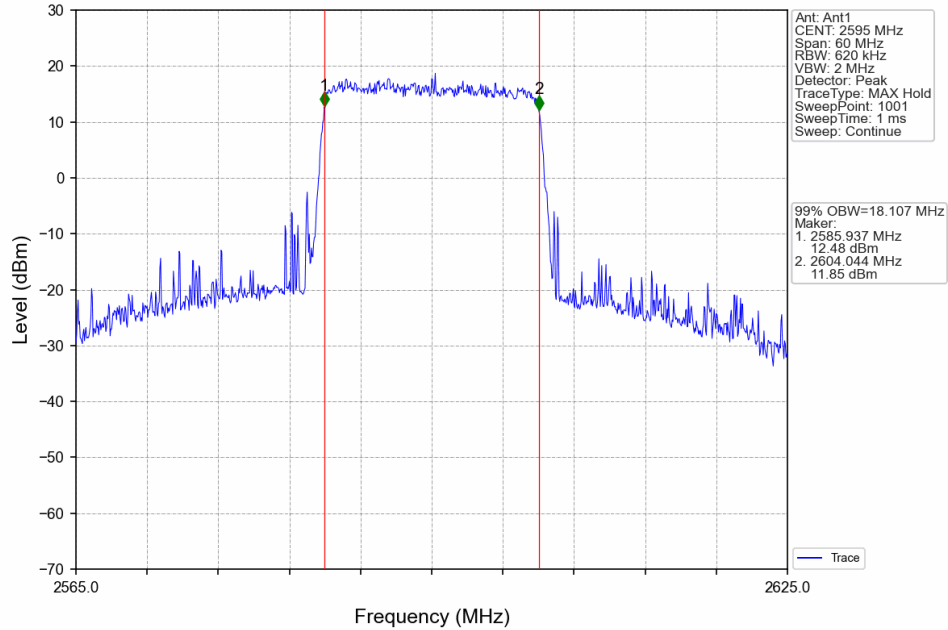
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Band38_20MHz_16QAM_MCH_2595MHz_RB_100_0_NTNV



Band38_20MHz_16QAM_HCH_2610MHz_RB_100_0_NTNV



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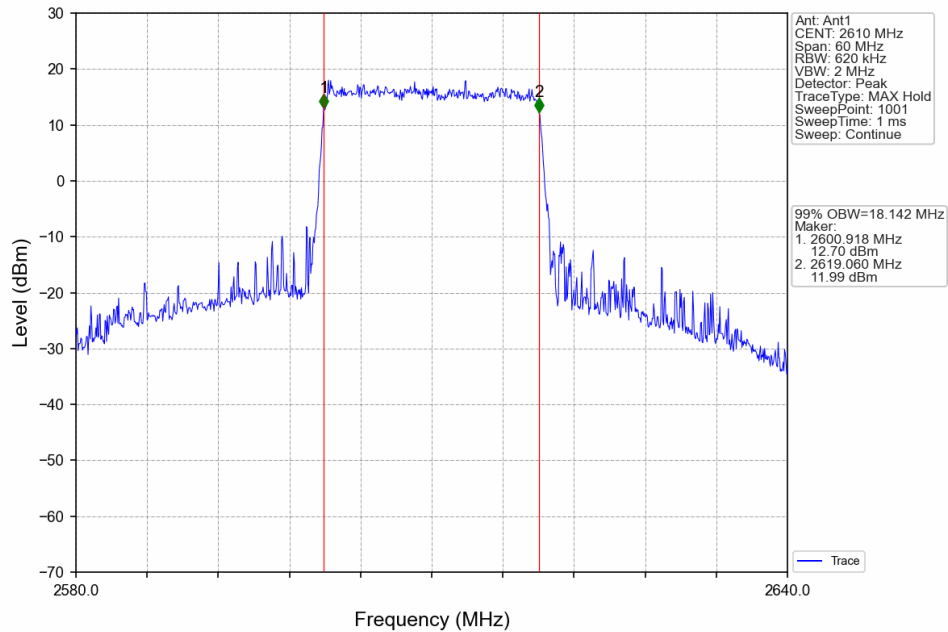
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3.2 Band38_XDB

3.2.1 Test Result

Band: 38 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2572.5	25	0	4.986	/	Pass
		2595	25	0	5.386	/	Pass
		2617.5	25	0	4.990	/	Pass
	16QAM	2572.5	25	0	5.338	/	Pass
		2595	25	0	5.012	/	Pass
		2617.5	25	0	5.160	/	Pass
10	QPSK	2575	50	0	9.938	/	Pass
		2595	50	0	10.781	/	Pass
		2615	50	0	11.681	/	Pass
	16QAM	2575	50	0	10.318	/	Pass
		2595	50	0	9.877	/	Pass
		2615	50	0	10.059	/	Pass
15	QPSK	2577.5	75	0	15.095	/	Pass
		2595	75	0	14.875	/	Pass
		2612.5	75	0	14.860	/	Pass
	16QAM	2577.5	75	0	17.875	/	Pass
		2595	75	0	15.271	/	Pass
		2612.5	75	0	15.448	/	Pass
20	QPSK	2580	100	0	20.210	/	Pass
		2595	100	0	20.898	/	Pass
		2610	100	0	21.548	/	Pass
	16QAM	2580	100	0	20.792	/	Pass
		2595	100	0	22.461	/	Pass
		2610	100	0	19.689	/	Pass



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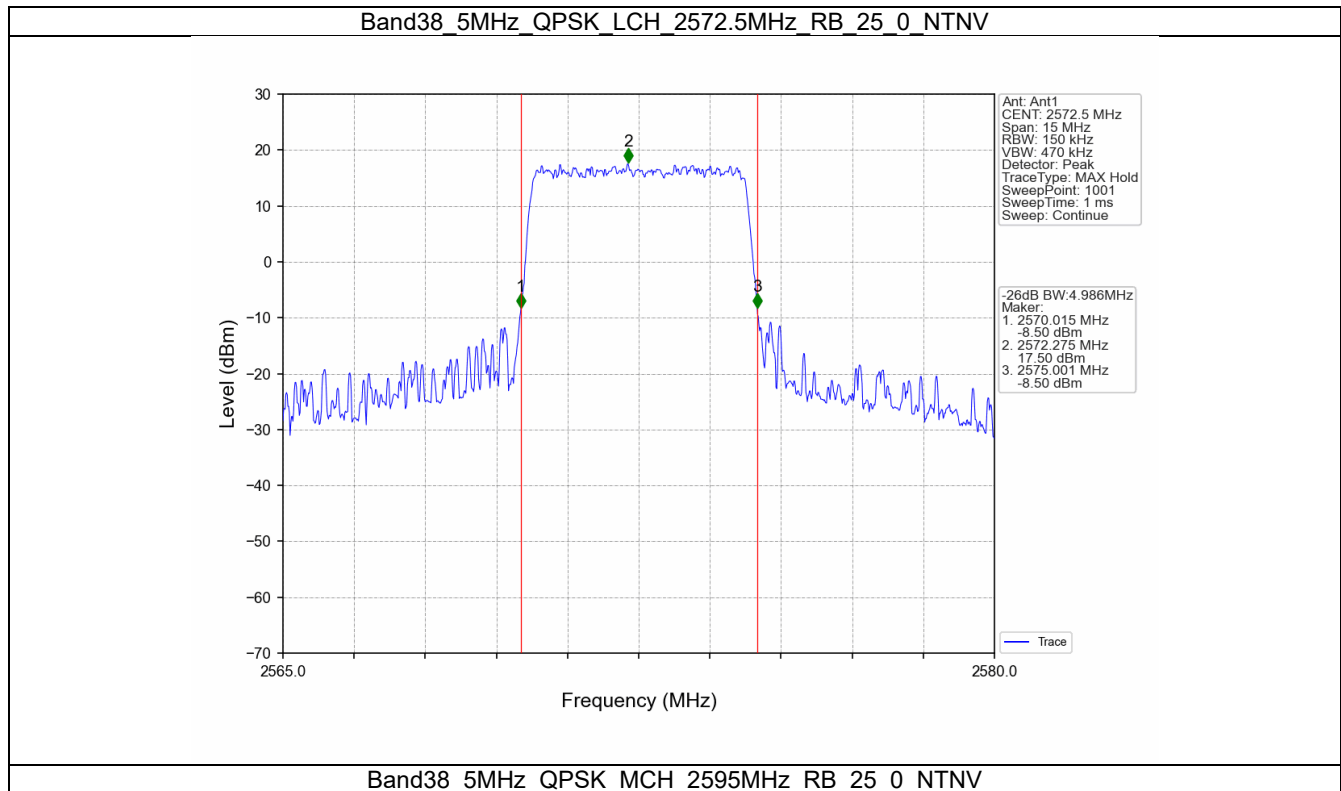
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3.2.2 Test Graph



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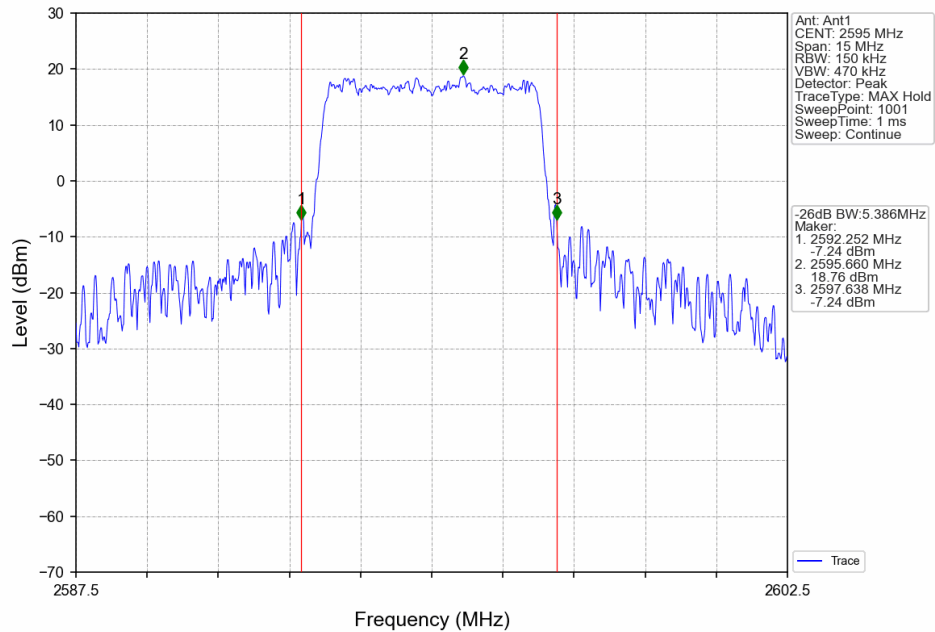
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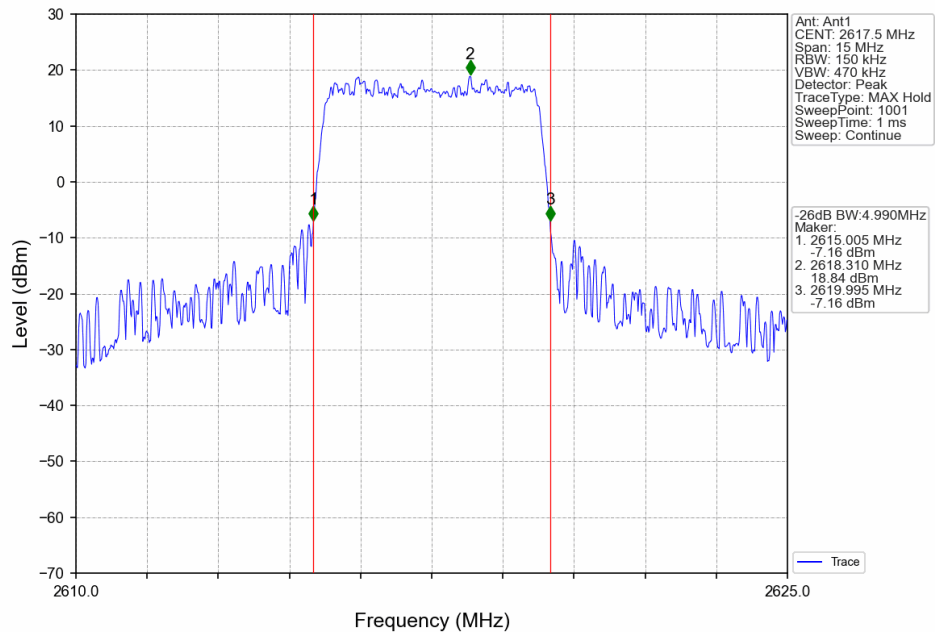
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Band38_5MHz_16QAM_LCH_2572.5MHz_RB_25_0_NTNV



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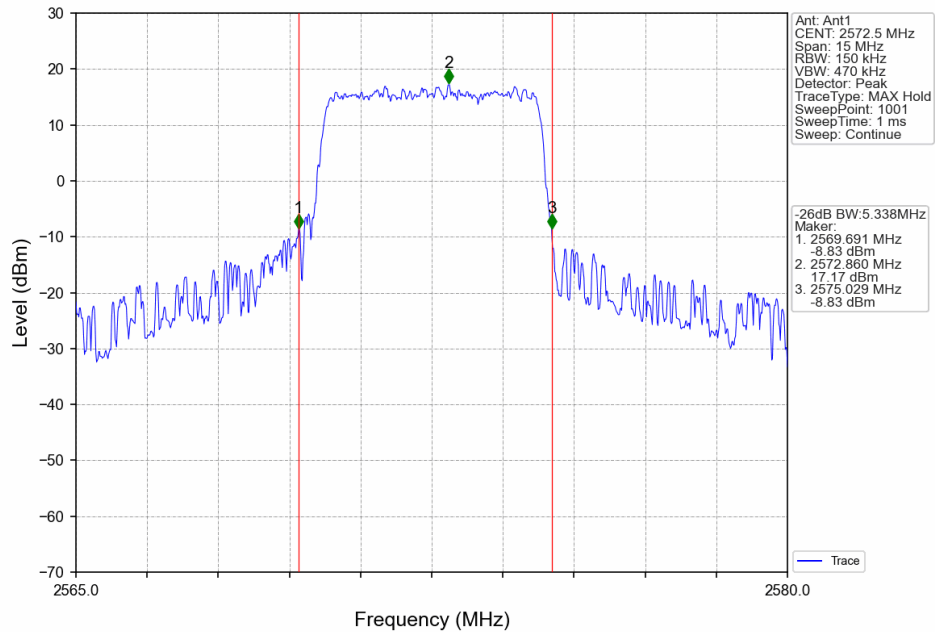
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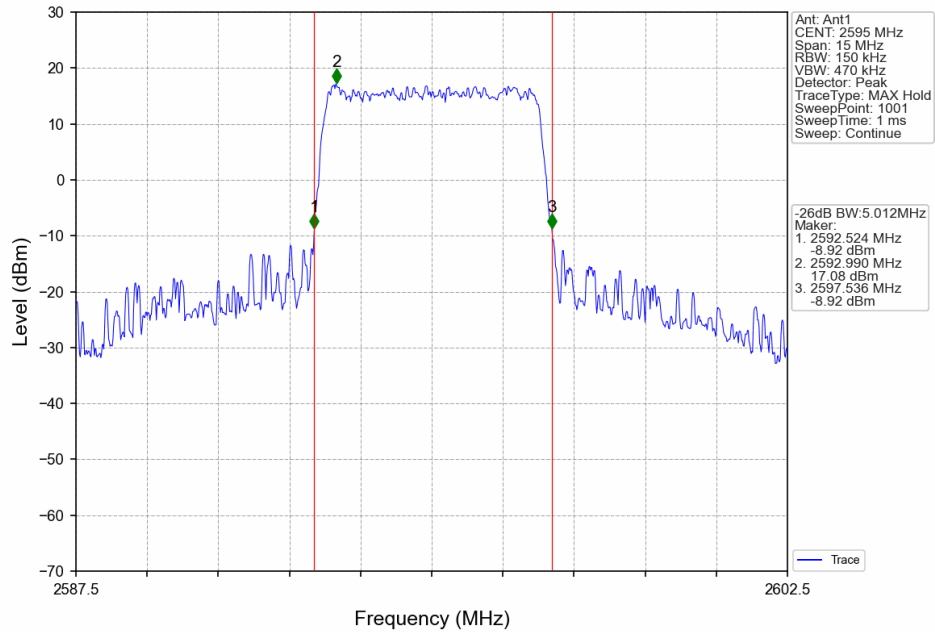
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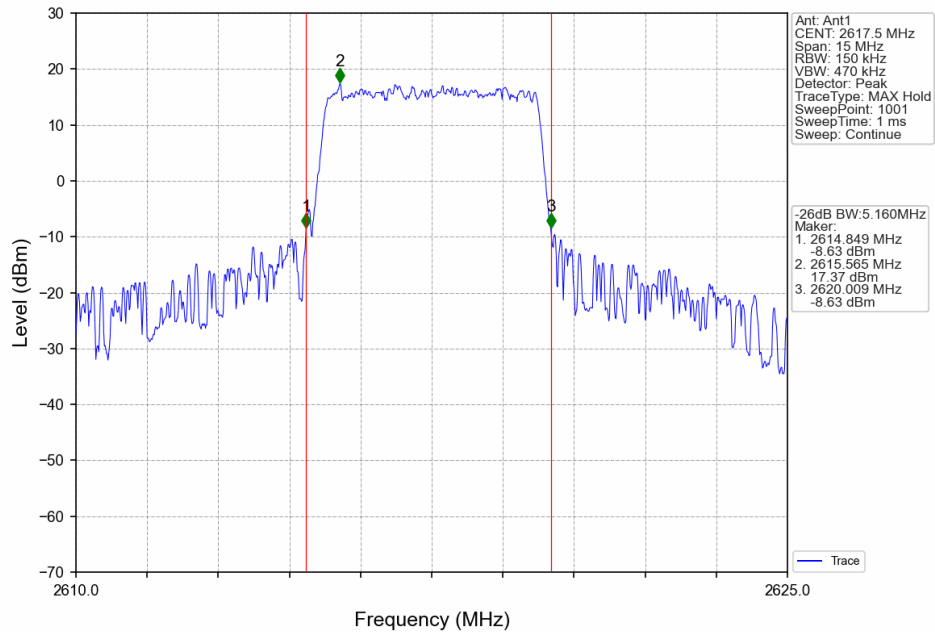
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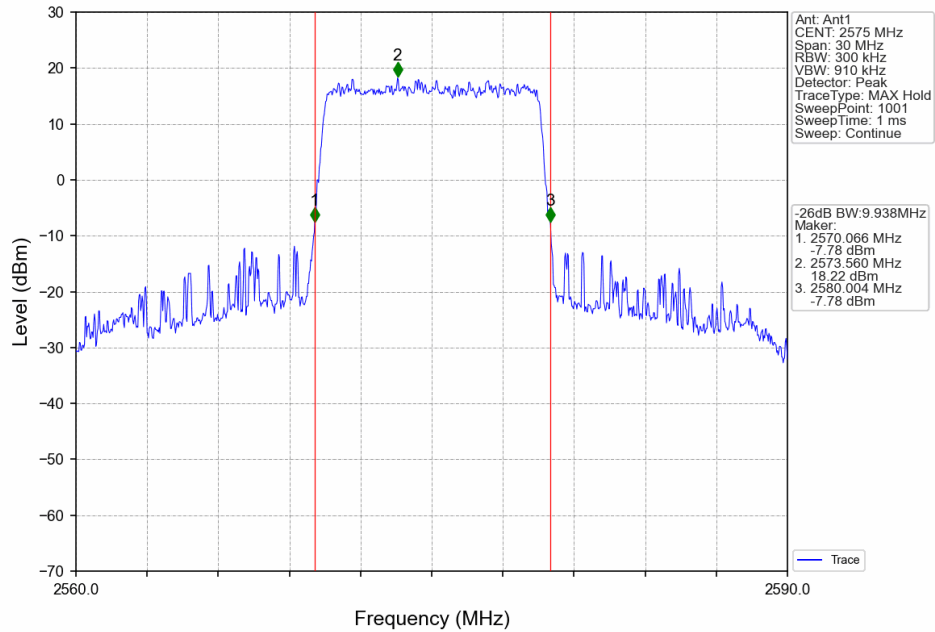
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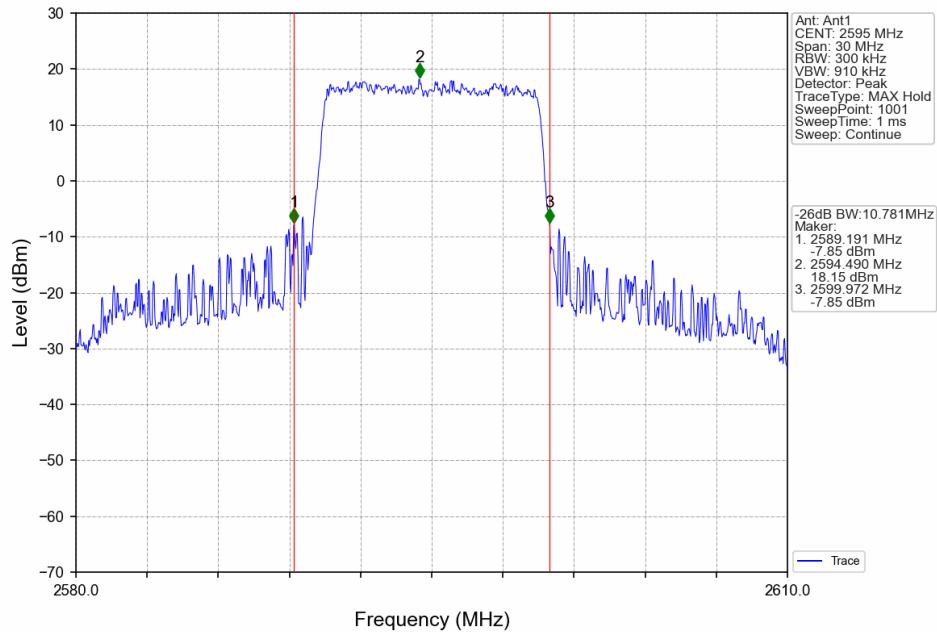
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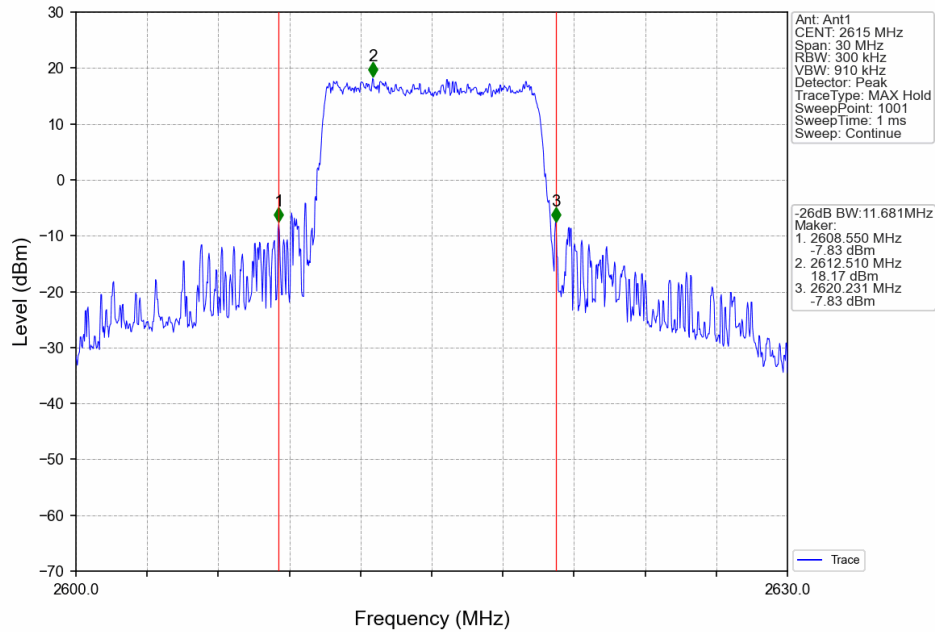
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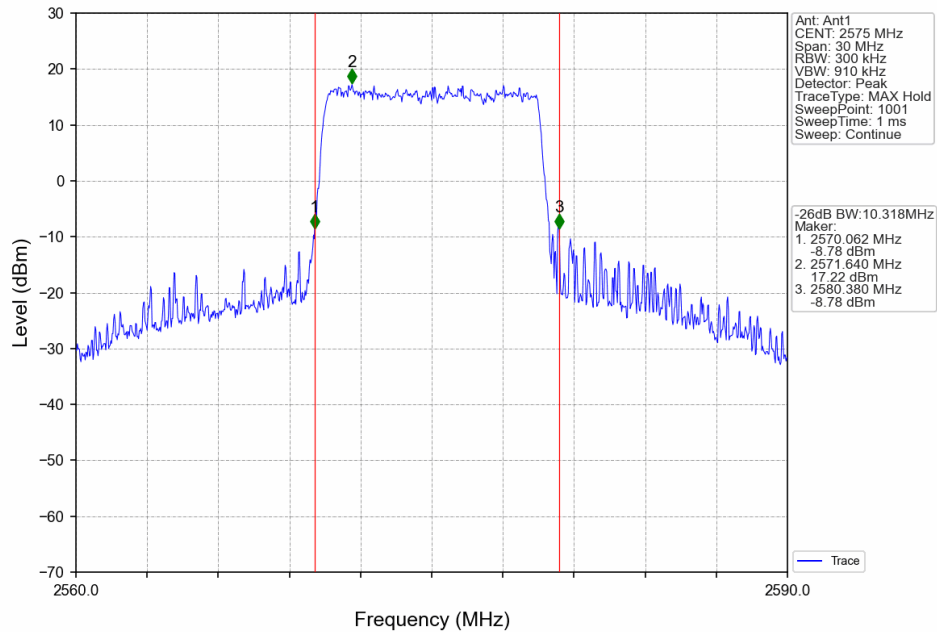
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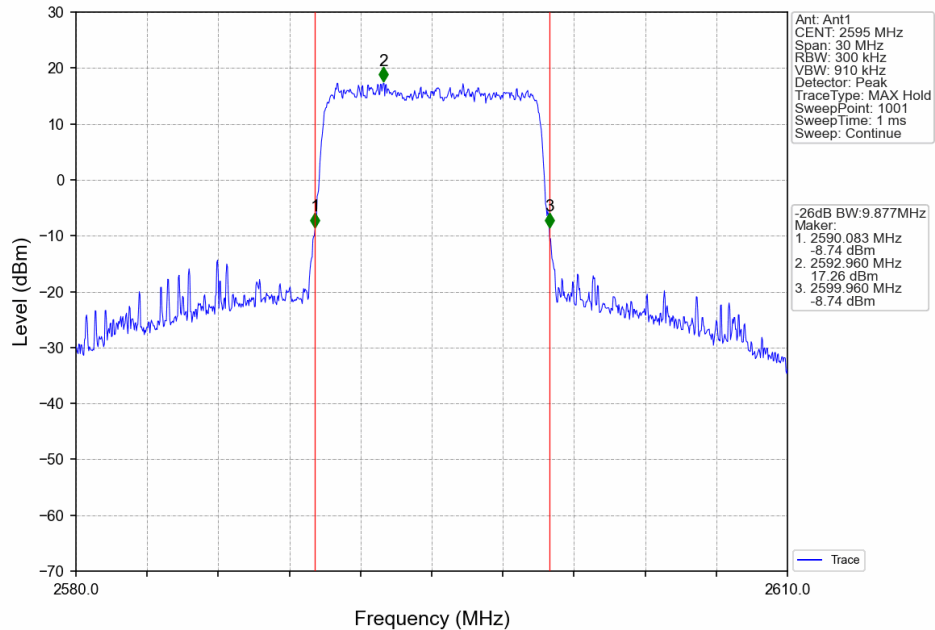
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Band38 10MHz 16QAM MCH 2595MHz RB 50 0 NTNV



Band38 10MHz 16QAM HCH 2615MHz RB 50 0 NTNV



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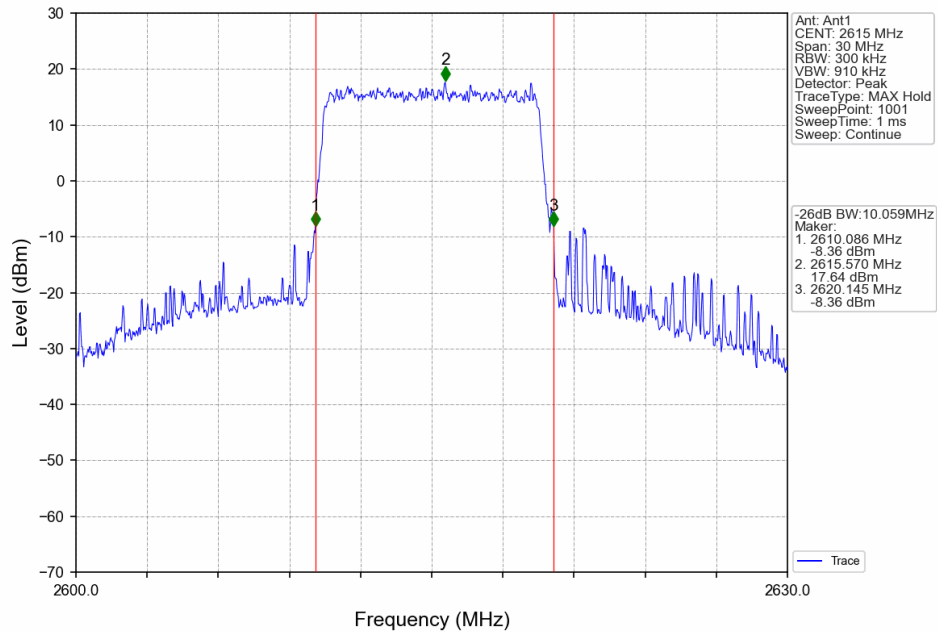
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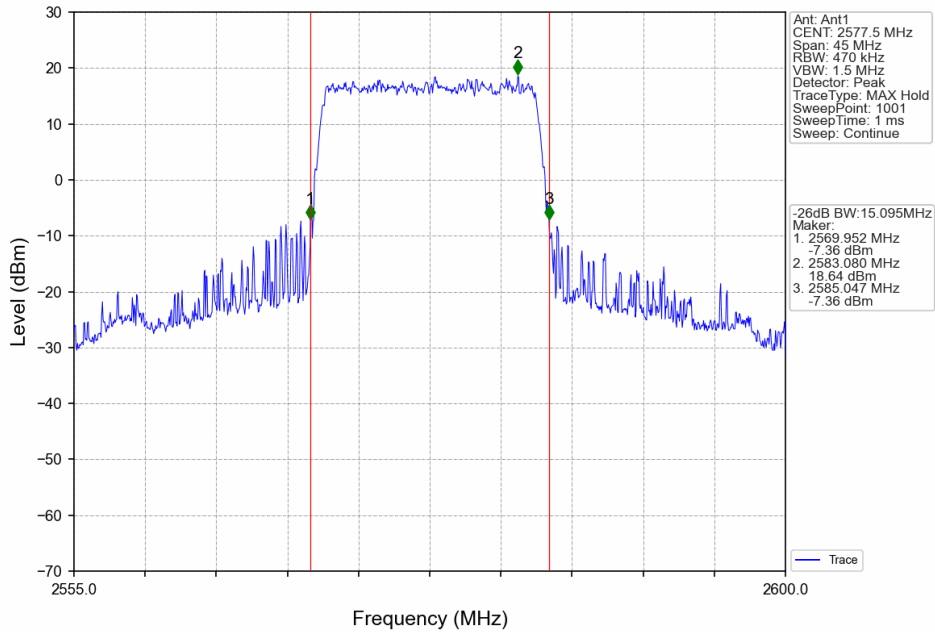
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Band38_15MHz_QPSK_MCH_2595MHz_RB_75_0_NTNV



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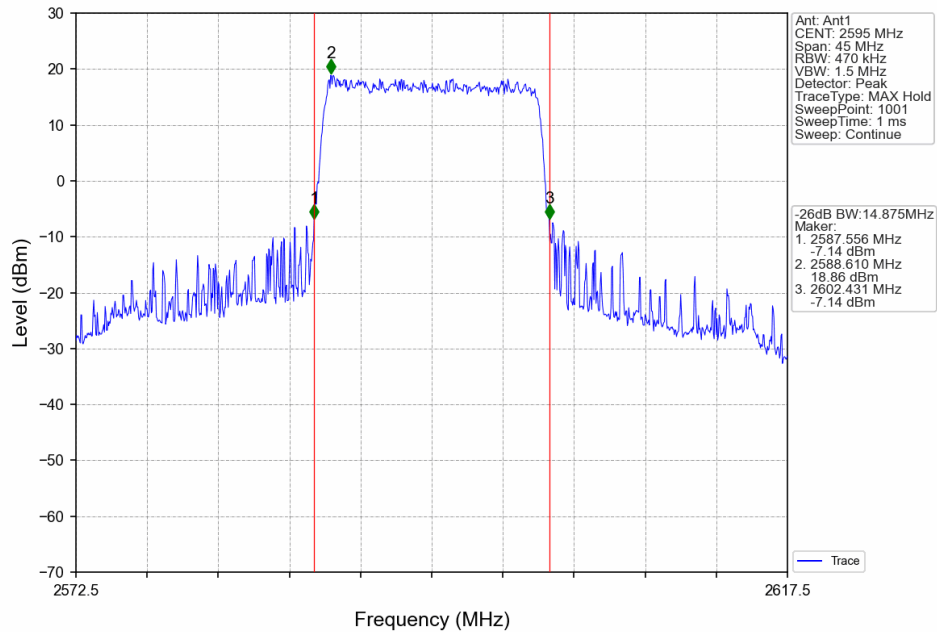
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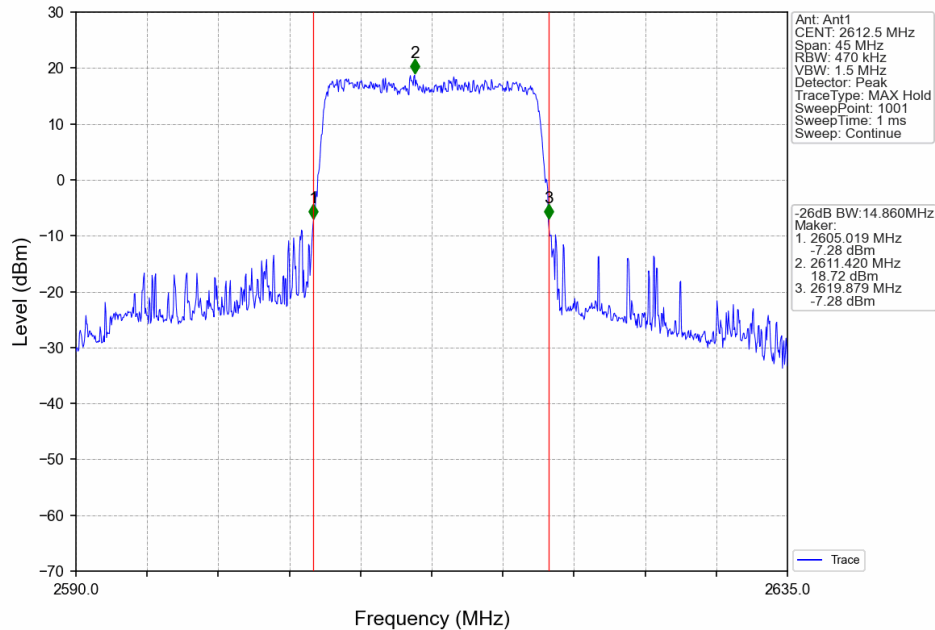
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Band38_15MHz_16QAM_LCH_2577.5MHz_RB_75_0_NTNV



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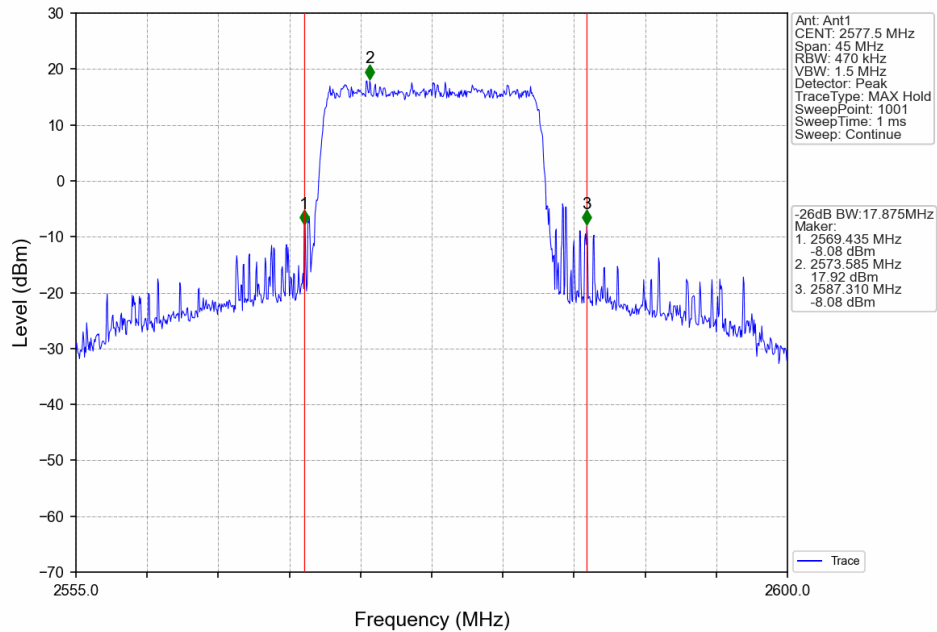
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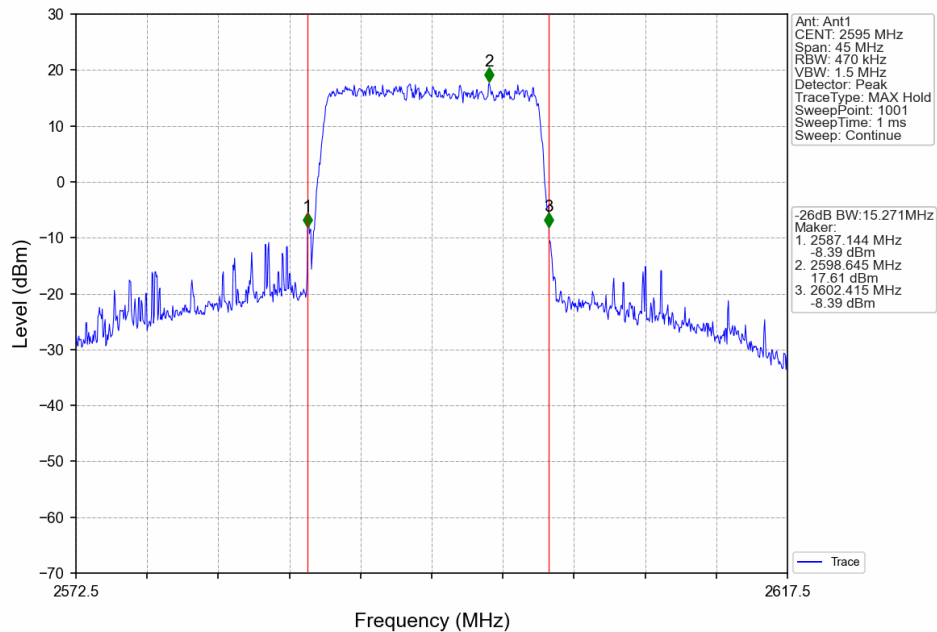
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Band38_15MHz_16QAM_HCH_2612.5MHz_RB_75_0_NTNV



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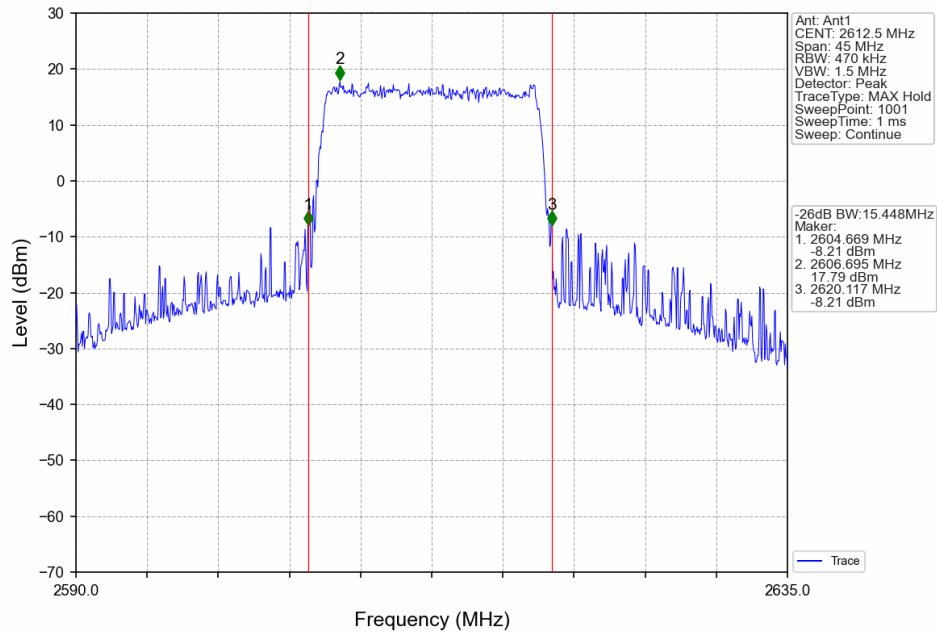
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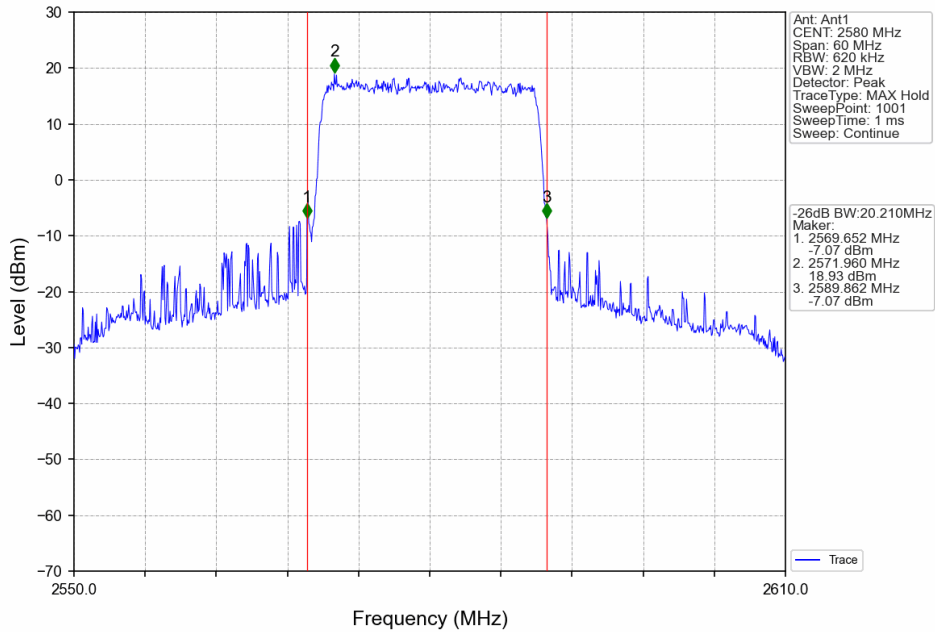
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Band38 20MHz QPSK LCH 2580MHz RB 100 0 NTN



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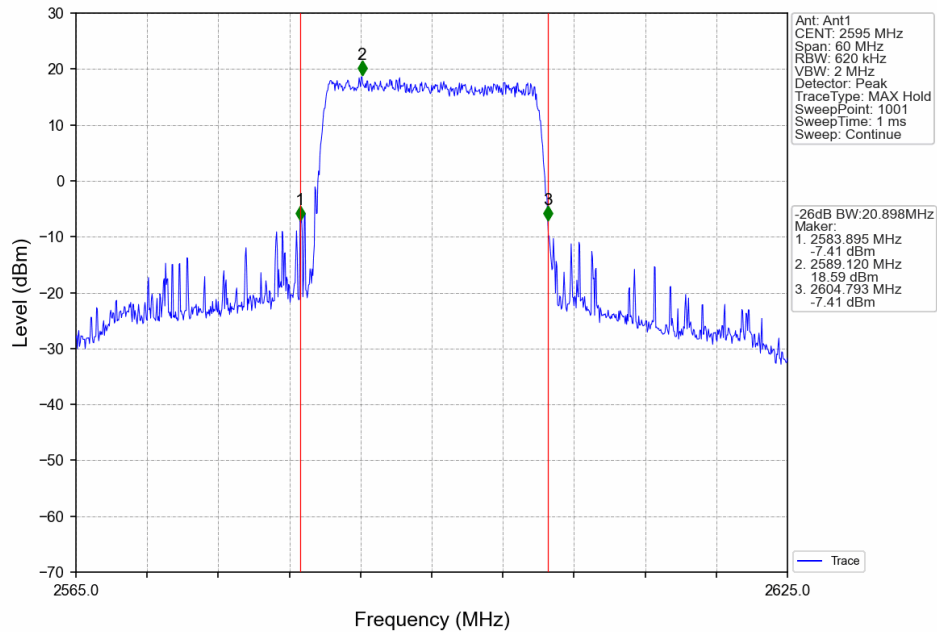
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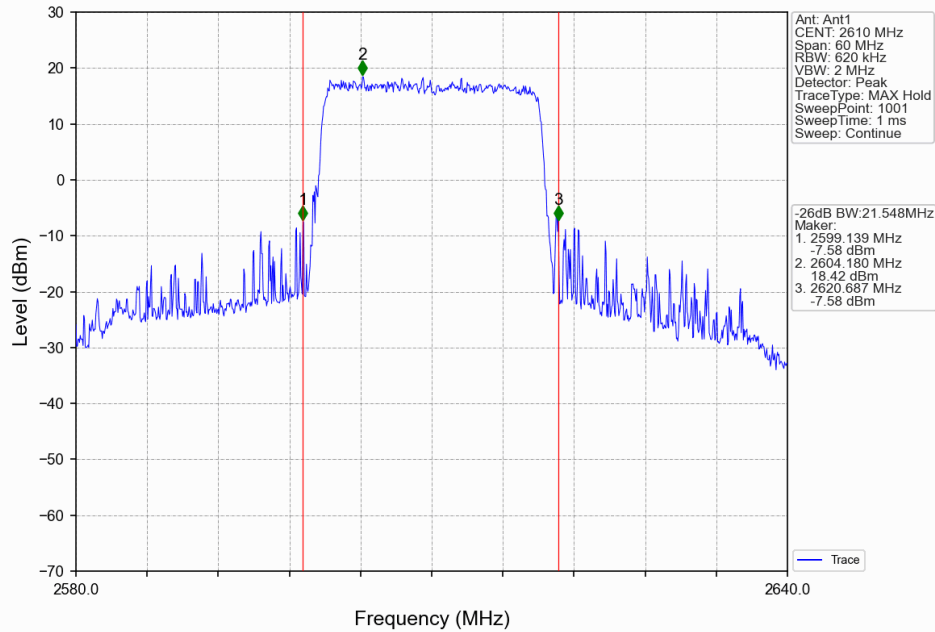
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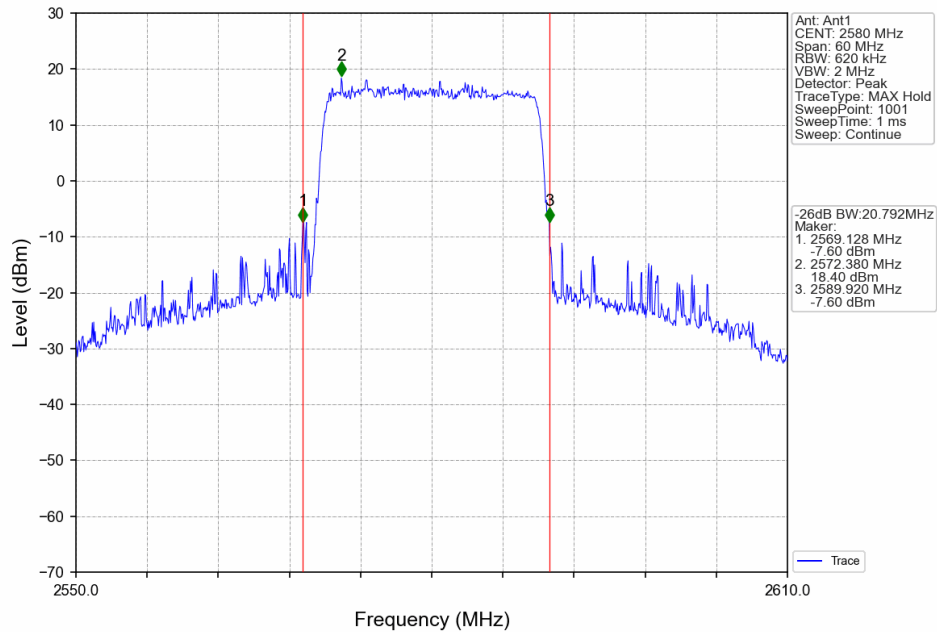
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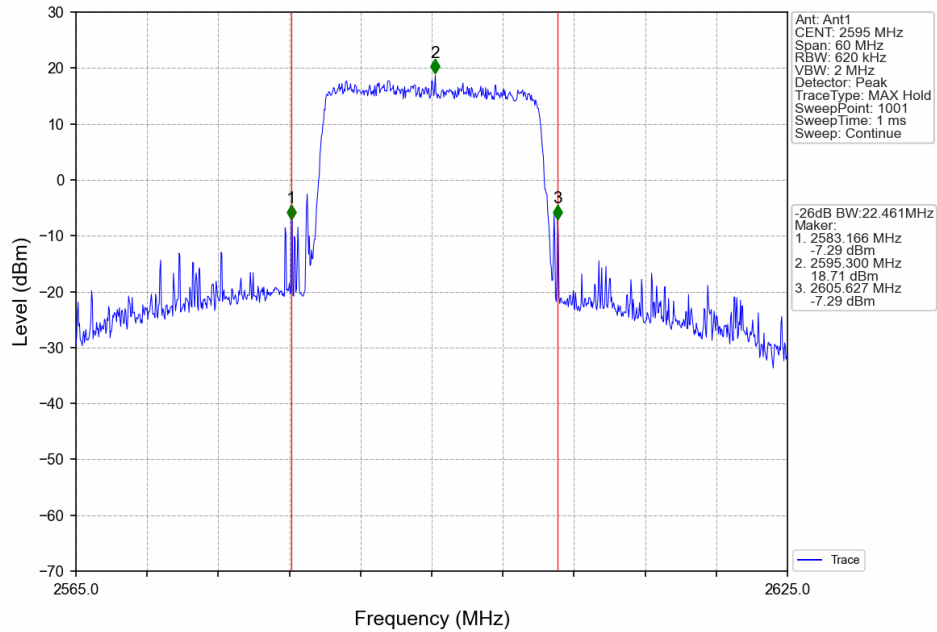
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Band38_20MHz_16QAM_MCH_2595MHz_RB_100_0_NTNV



Band38_20MHz_16QAM_HCH_2610MHz_RB_100_0_NTNV



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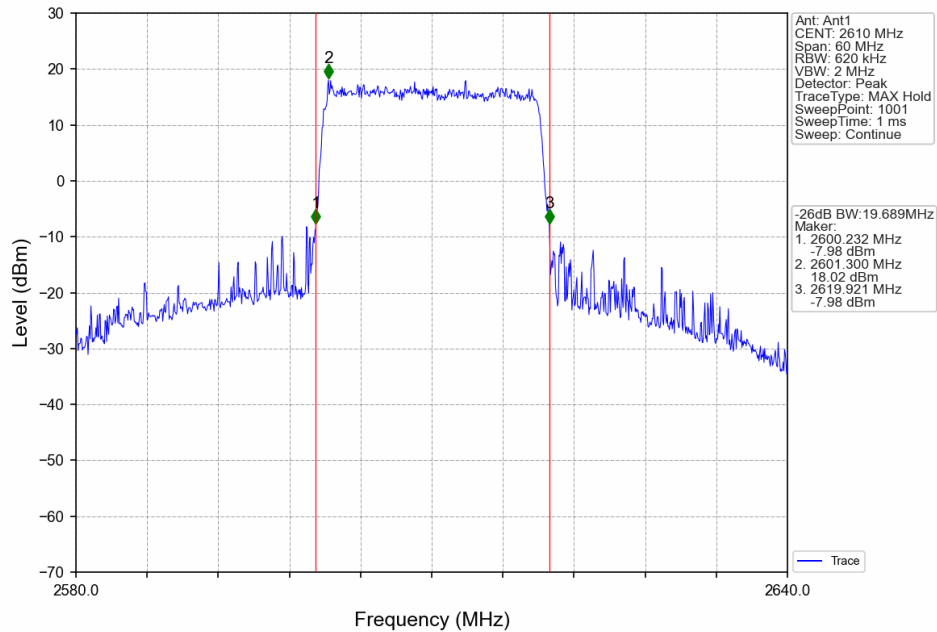
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4. Peak-Average Ratio

4.1 B38_5MHz

4.1.1 Test Result

Band: 38 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2572.5	25	0	7.69	<=13	Pass
	2595	25	0	7.70	<=13	Pass
	2617.5	25	0	7.57	<=13	Pass
16QAM	2572.5	25	0	8.46	<=13	Pass
	2595	25	0	8.35	<=13	Pass
	2617.5	25	0	8.62	<=13	Pass



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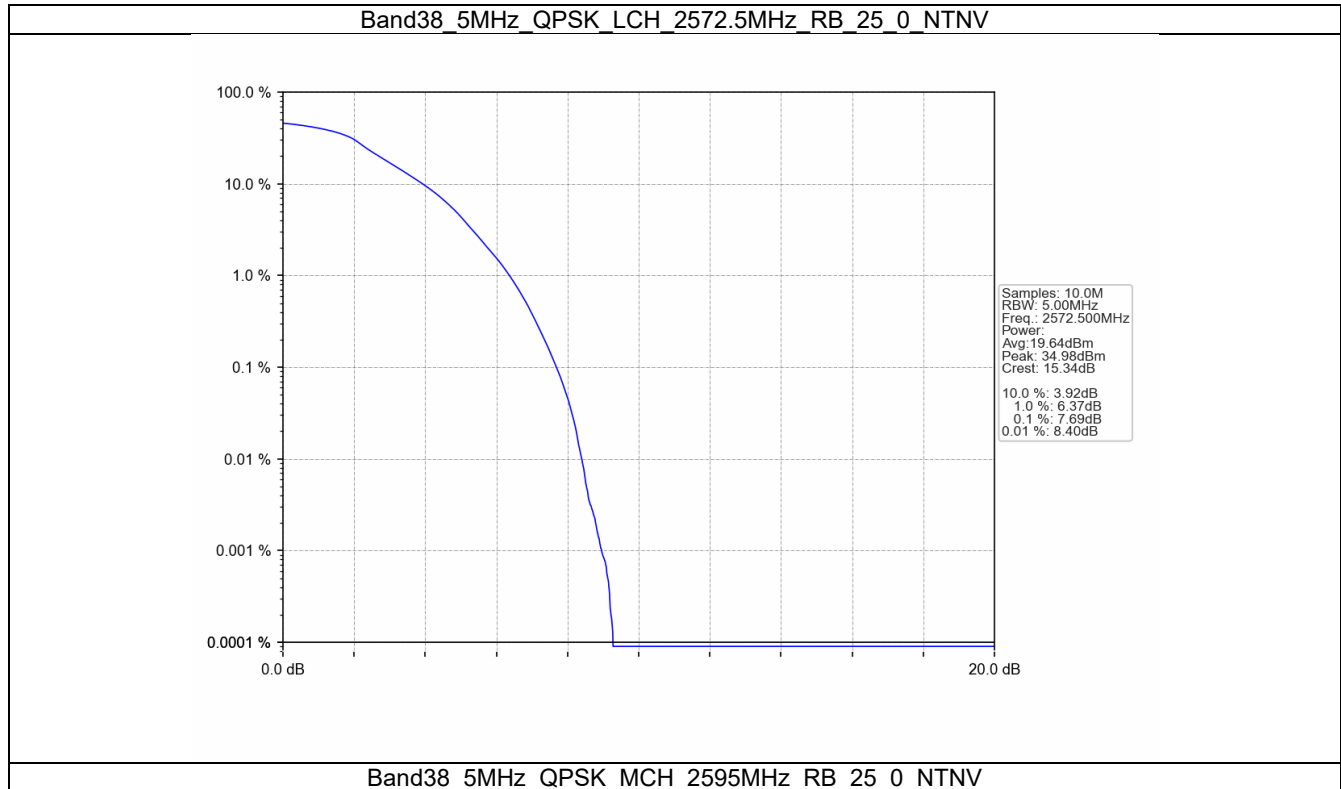
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4.1.2 Test Graph



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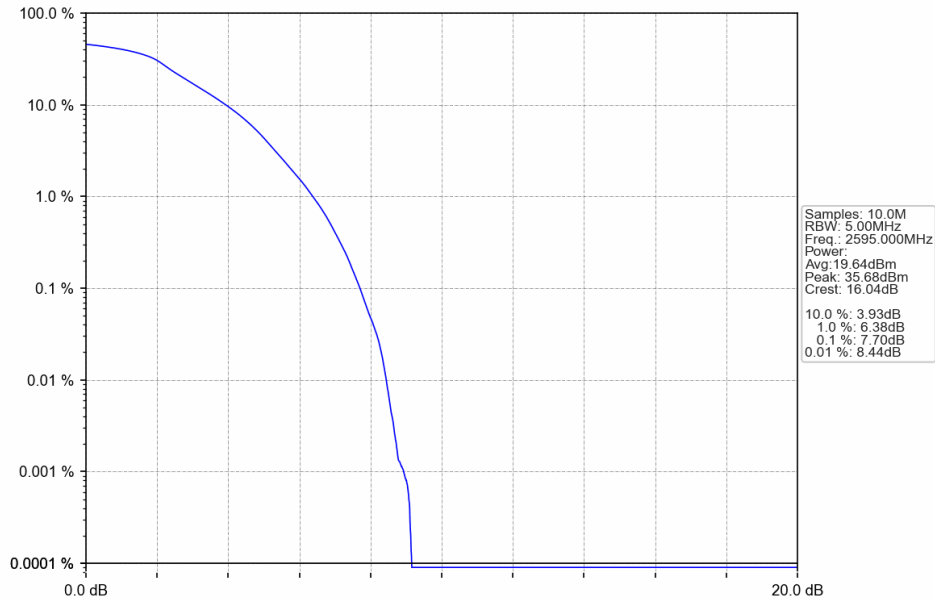
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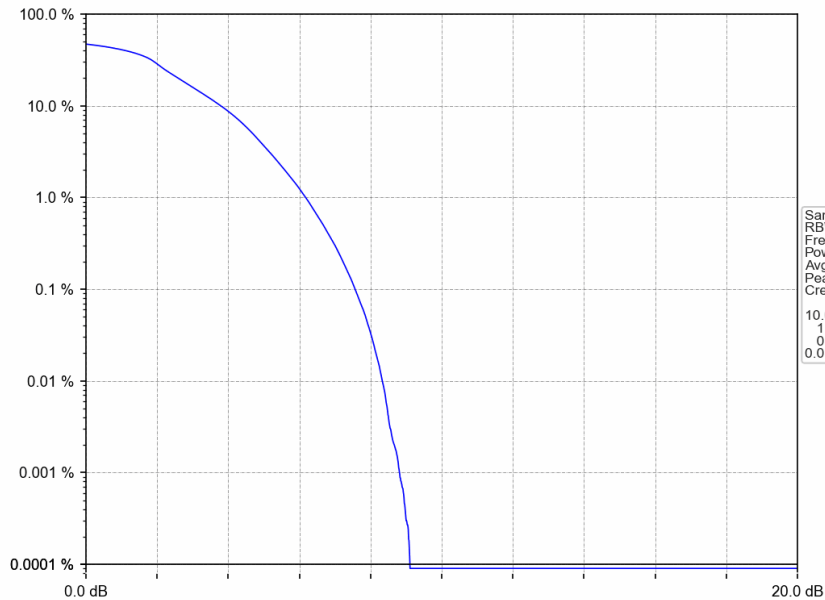
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Band38_5MHz_QPSK_HCH_2617.5MHz_RB_25_0_NTNV



Samples: 10.0M
RBW: 5.00MHz
Freq.: 2617.500MHz
Power:
Avg: 19.84dBm
Peak: 33.66dBm
Crest: 13.82dB
10.0%: 3.79dB
1.0%: 6.18dB
0.1%: 7.57dB
0.01%: 8.33dB

Band38_5MHz_16QAM_LCH_2572.5MHz_RB_25_0_NTNV



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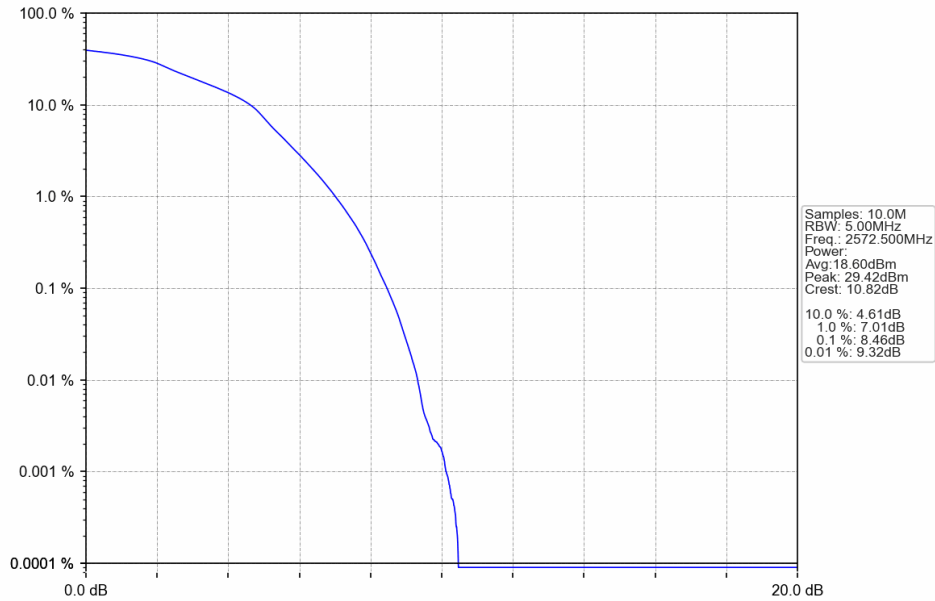
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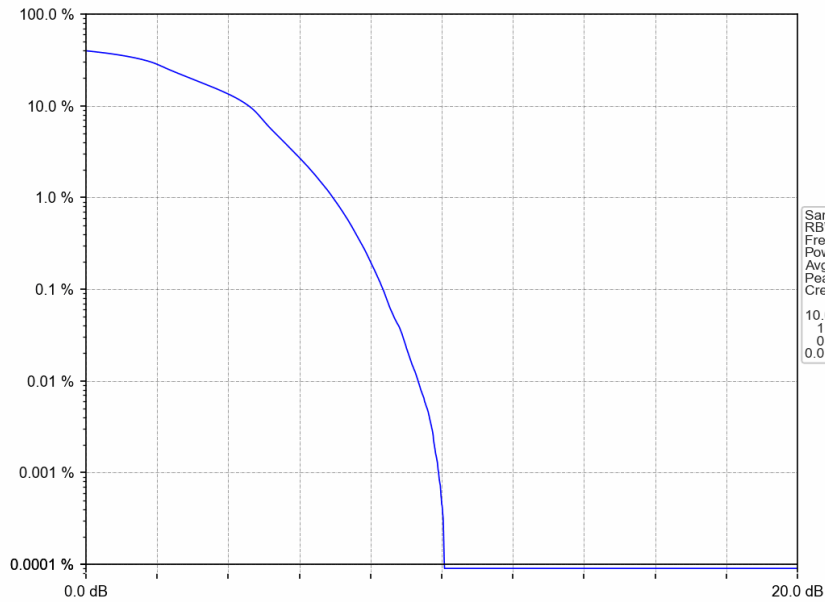
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Band38_5MHz_16QAM_HCH_2617.5MHz_RB_25_0_NTNV



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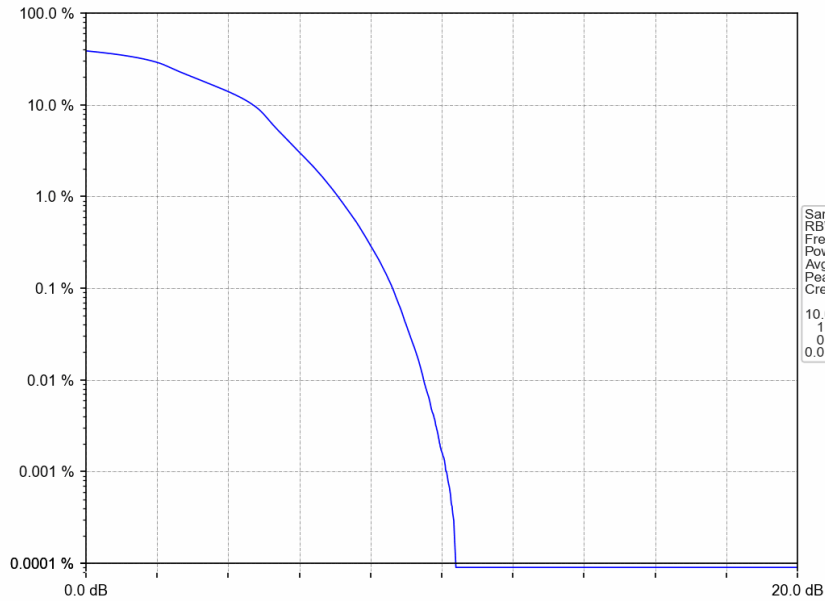
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4.2 B38_10MHz

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	7.71	<=13	Pass
	2595	50	0	7.74	<=13	Pass
	2615	50	0	7.68	<=13	Pass
16QAM	2575	50	0	8.41	<=13	Pass
	2595	50	0	8.53	<=13	Pass
	2615	50	0	8.45	<=13	Pass



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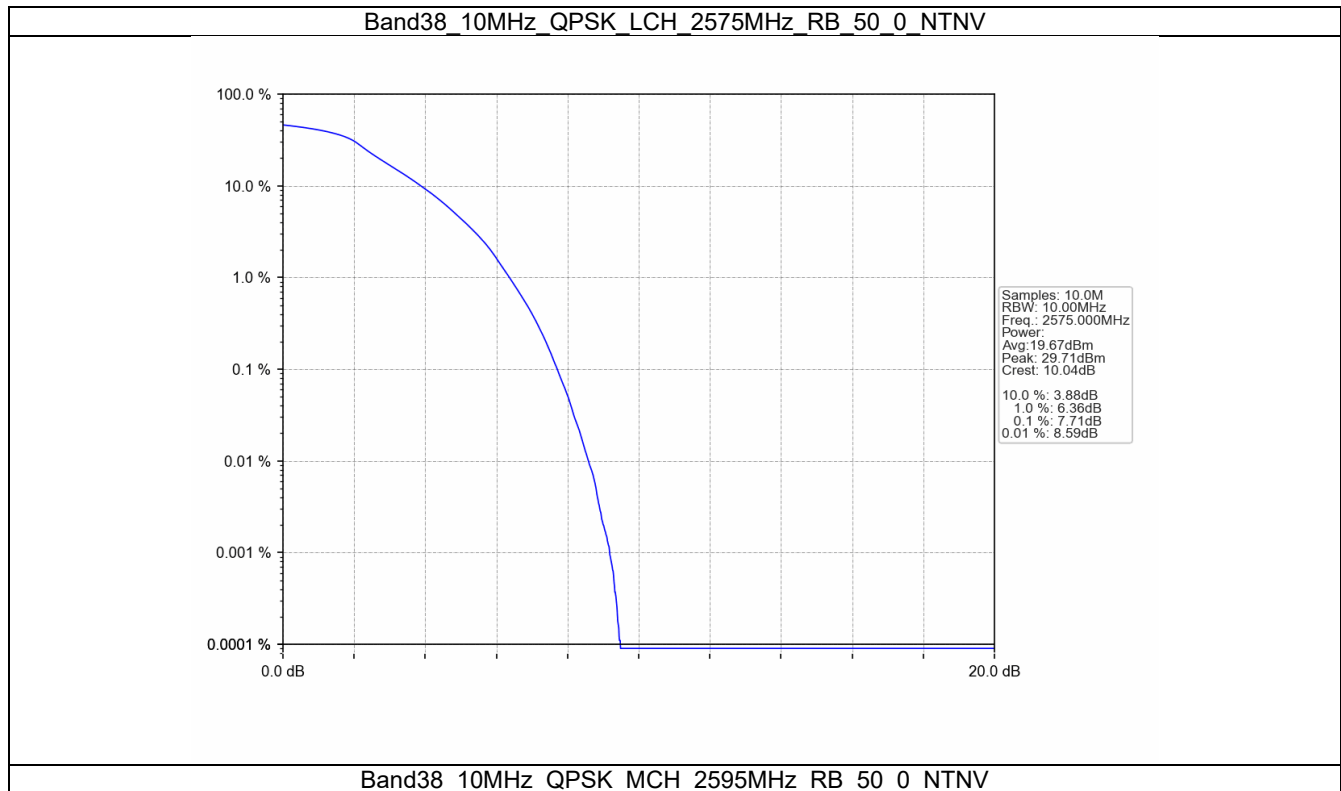
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4.2.2 Test Graph



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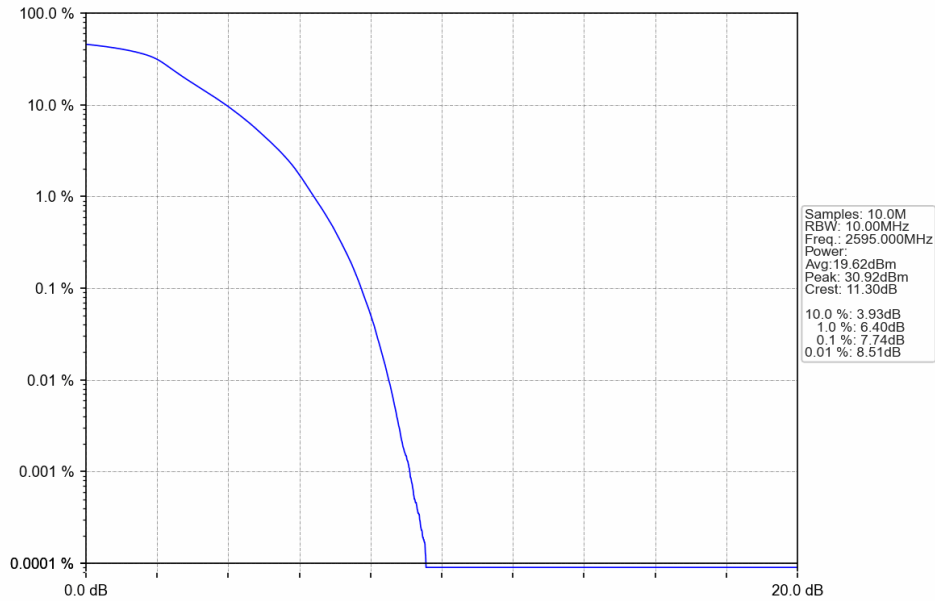
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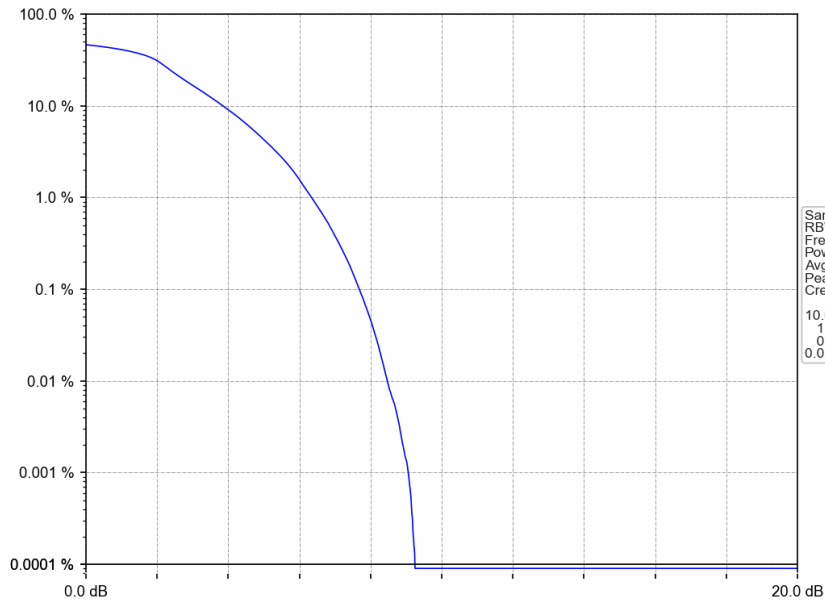
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Band38_10MHz_QPSK_HCH_2615MHz_RB_50_0_NTNV



Samples: 10.0M
RBW: 10.00MHz
Freq.: 2615.000MHz
Power:
Avg: 19.68dBm
Peak: 29.93dBm
Crest: 10.25dBm
10.0 %: 3.85dB
1.0 %: 6.34dB
0.1 %: 7.68dB
0.01 %: 8.47dB

Band38_10MHz_16QAM_LCH_2575MHz_RB_50_0_NTNV



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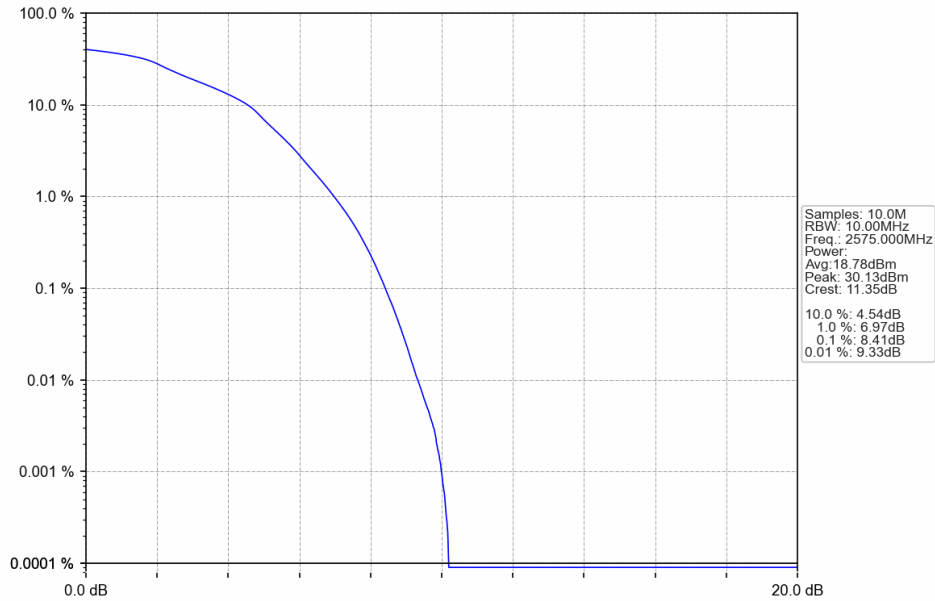
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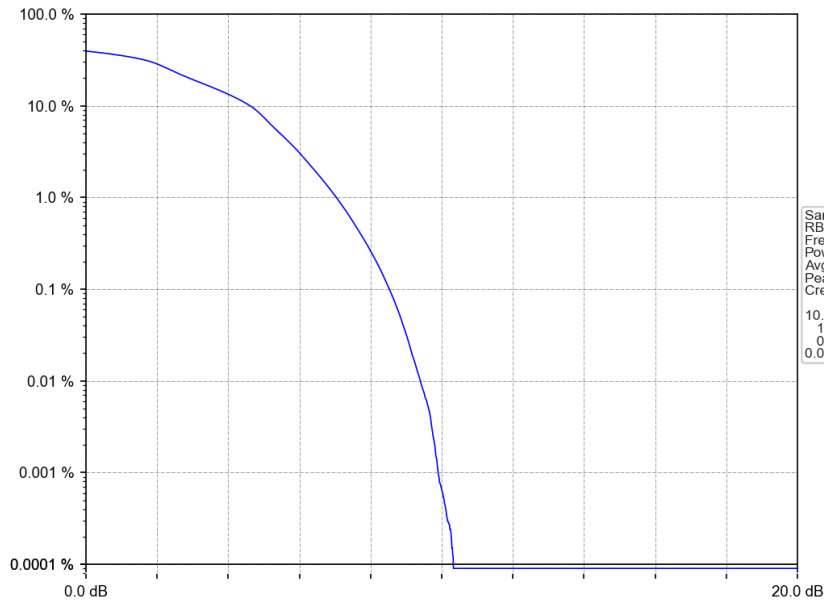
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Band38 10MHz 16QAM MCH 2595MHz RB 50 0 NTNV



Band38 10MHz 16QAM HCH 2615MHz RB 50 0 NTNV



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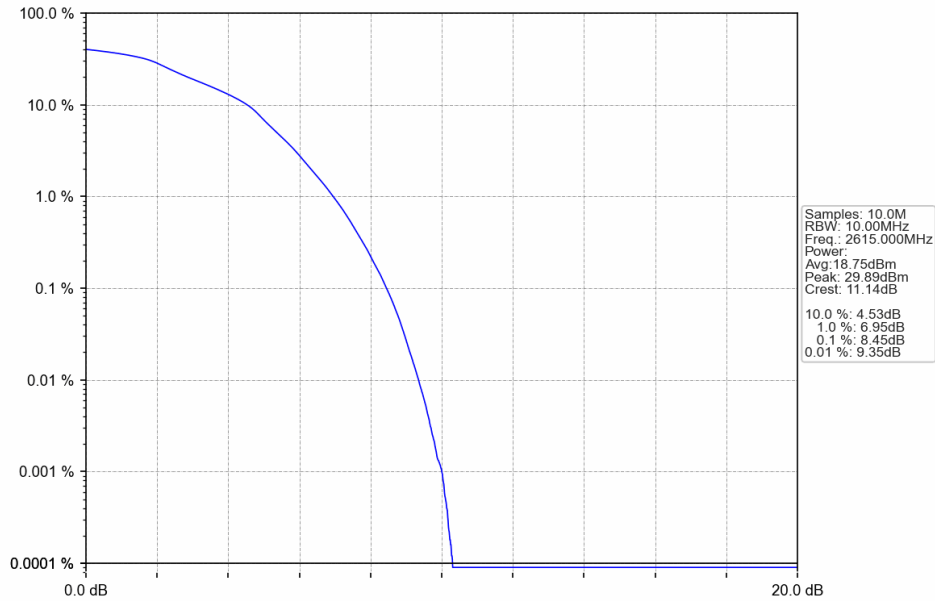
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4.3 B38_15MHz

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	7.89	<=13	Pass
	2595	75	0	8.14	<=13	Pass
	2612.5	75	0	7.82	<=13	Pass
16QAM	2577.5	75	0	8.60	<=13	Pass
	2595	75	0	8.55	<=13	Pass
	2612.5	75	0	8.51	<=13	Pass



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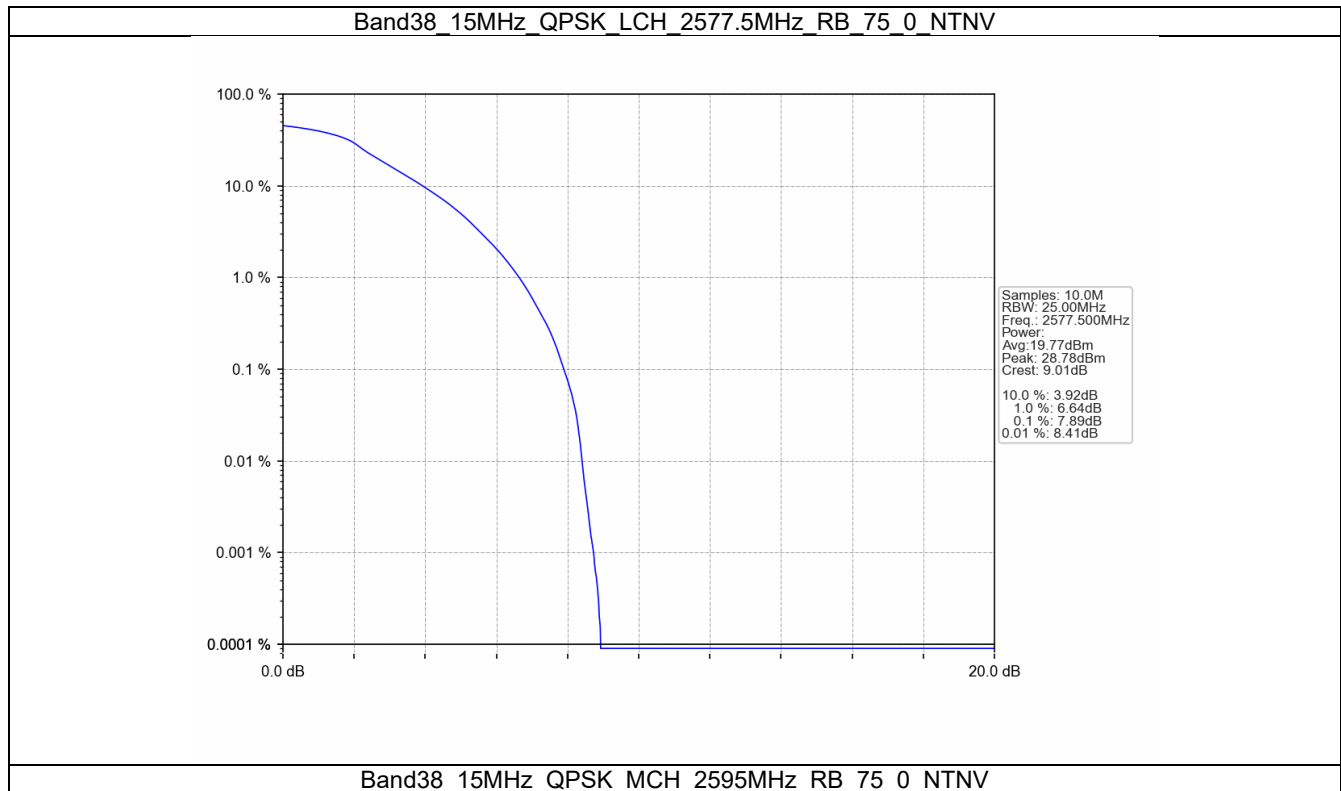
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4.3.2 Test Graph



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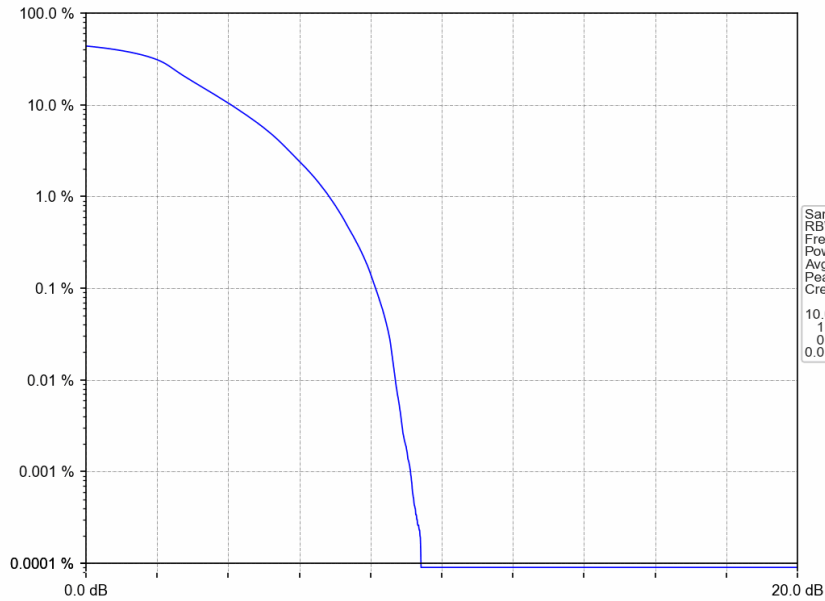
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Samples: 10.0M
RBW: 25.00MHz
Freq.: 2595.000MHz
Power:
Avg: 19.50dBm
Peak: 30.48dBm
Crest: 10.98dB

10.0 %: 4.08dB
1.0 %: 6.83dB
0.1 %: 8.14dB
0.01 %: 8.70dB



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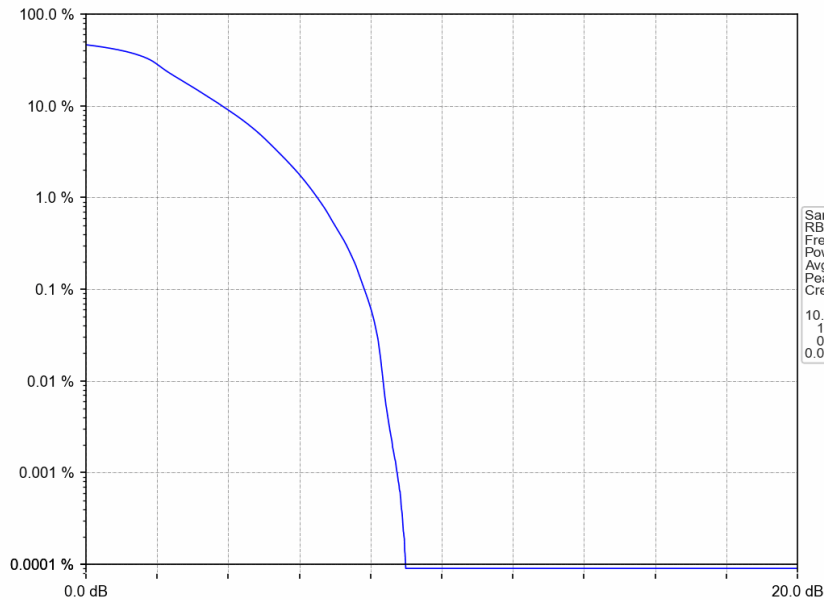
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Band38_15MHz_QPSK_HCH_2612.5MHz_RB_75_0_NTNV



Band38_15MHz_16QAM_LCH_2577.5MHz_RB_75_0_NTNV



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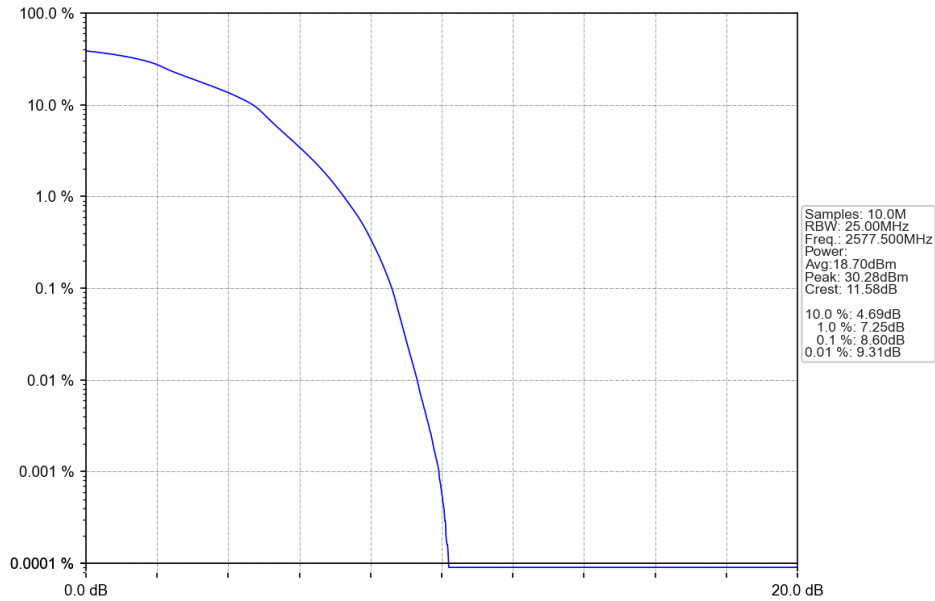
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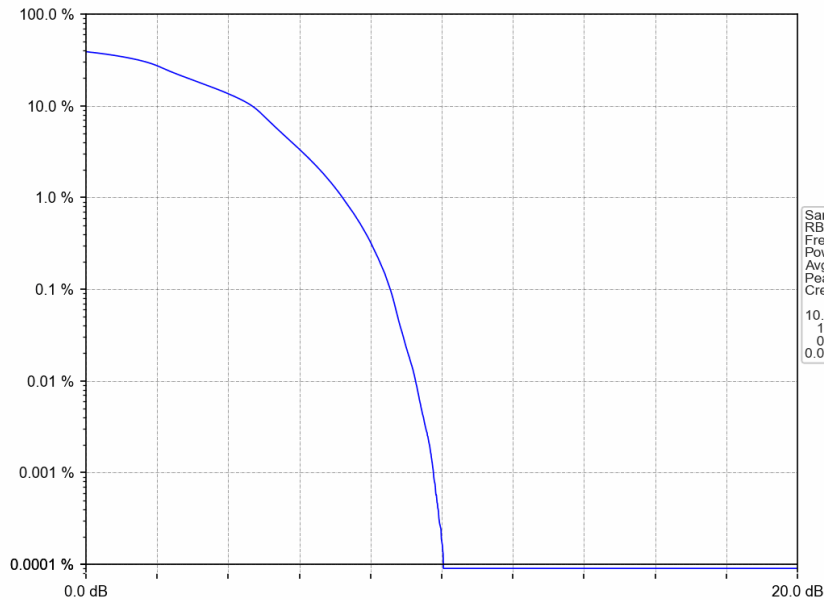
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Band38_15MHz_16QAM_MCH_2595MHz_RB_75_0_NTNV



Samples: 10.0M
RBW: 25.00MHz
Freq.: 2595.000MHz
Power:
Avg: 18.75dBm
Peak: 29.49dBm
Crest: 10.74dB
10.0 %: 4.66dB
1.0 %: 7.21dB
0.1 %: 8.55dB
0.01 %: 9.26dB

Band38_15MHz_16QAM_HCH_2612.5MHz_RB_75_0_NTNV



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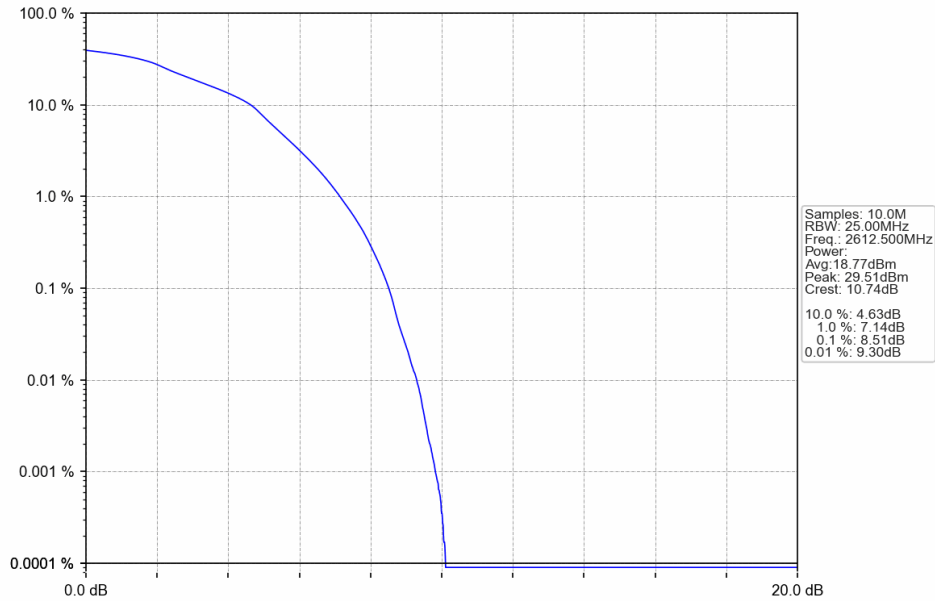
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4.4 B38_20MHz

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	7.66	<=13	Pass
	2595	100	0	7.64	<=13	Pass
	2610	100	0	7.88	<=13	Pass
16QAM	2580	100	0	8.33	<=13	Pass
	2595	100	0	8.50	<=13	Pass
	2610	100	0	8.13	<=13	Pass



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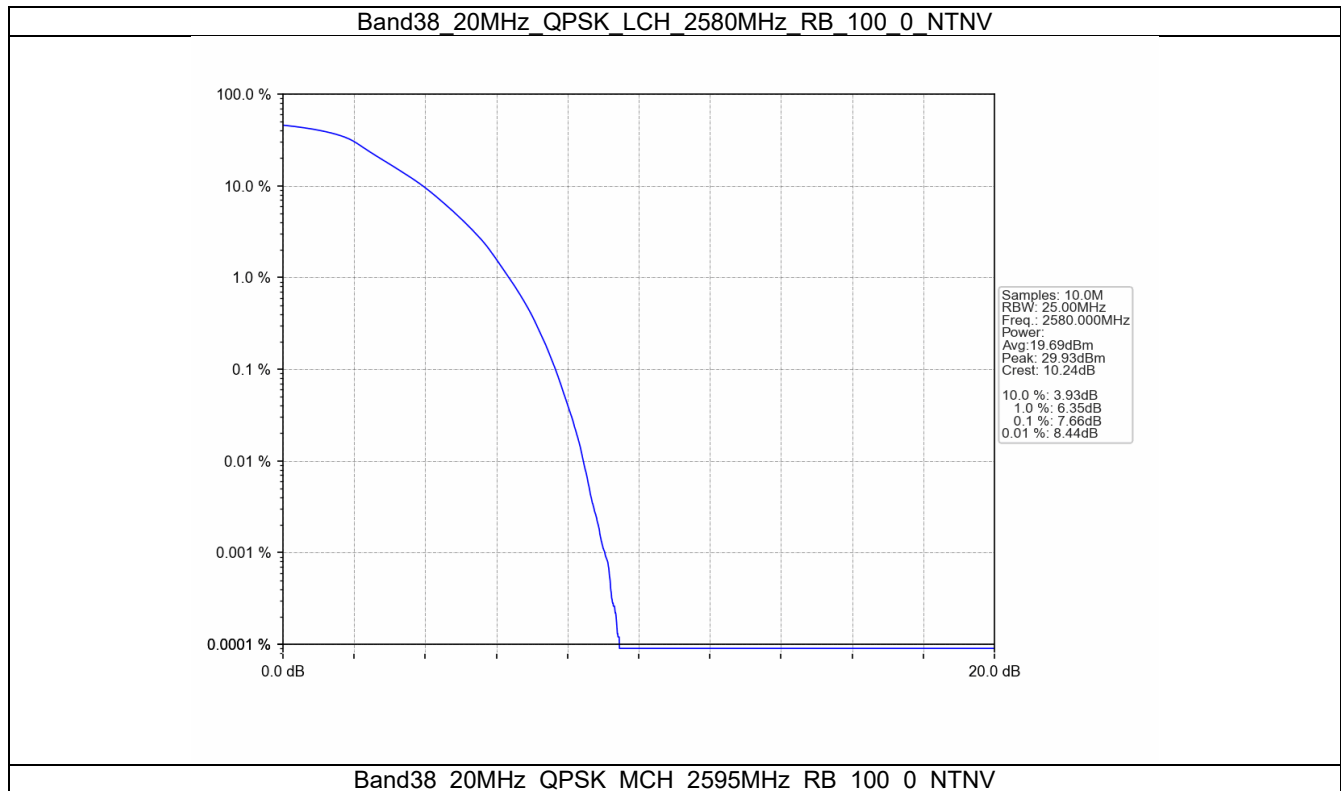
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4.4.2 Test Graph



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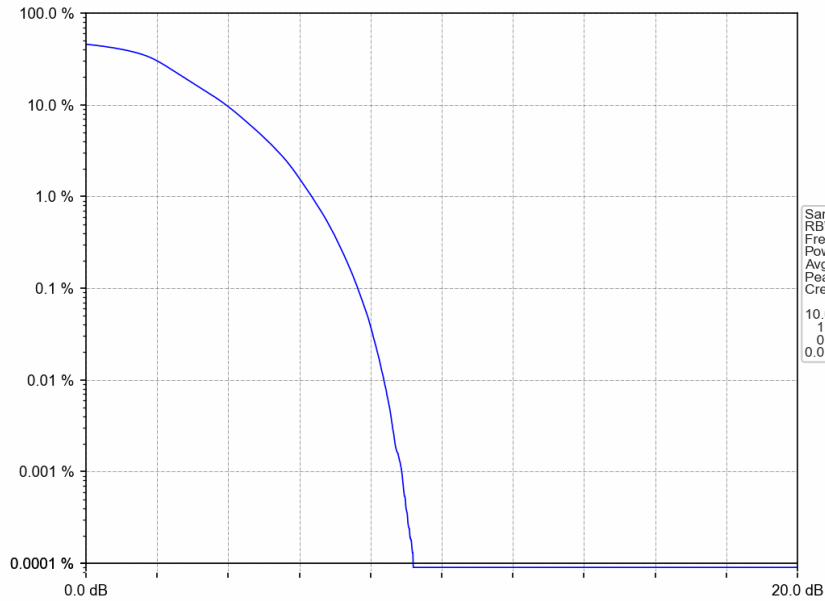
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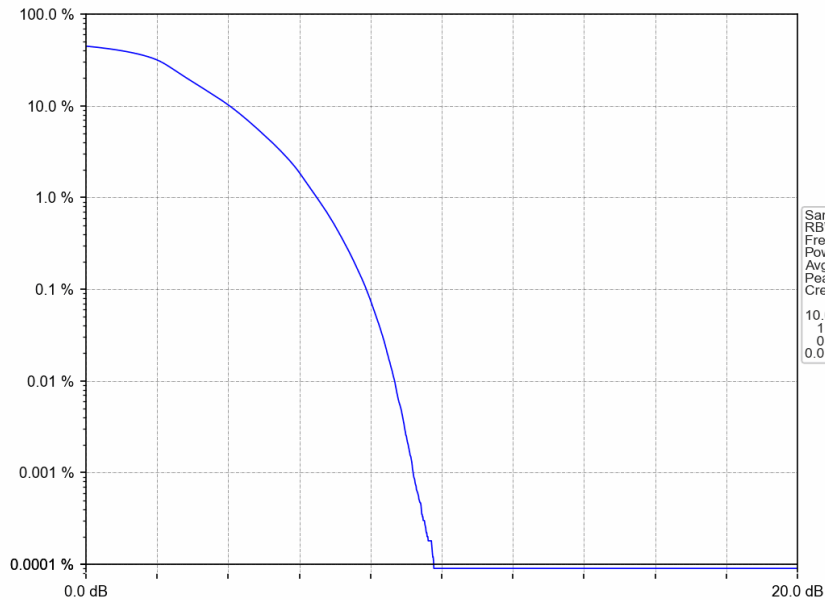


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Band38 20MHz QPSK HCH 2610MHz RB 100 0 NTN



Band38 20MHz 16QAM LCH 2580MHz RB 100 0 NTN



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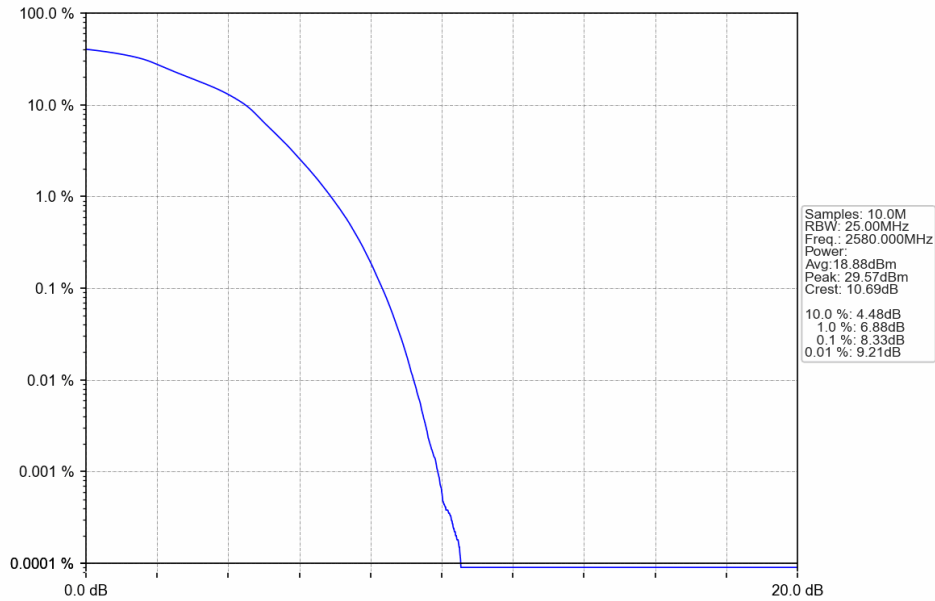
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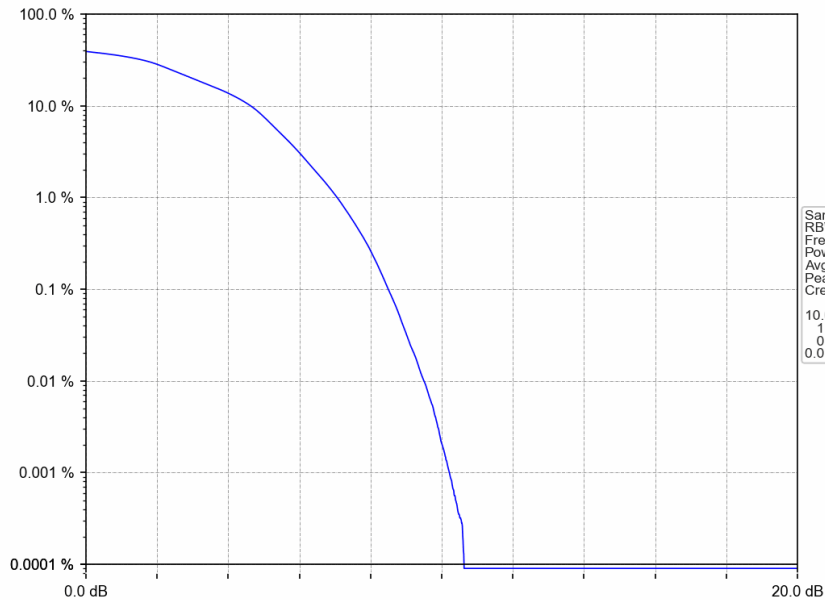
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Band38_20MHz_16QAM_MCH_2595MHz_RB_100_0_NTNV



Band38_20MHz_16QAM_HCH_2610MHz_RB_100_0_NTNV



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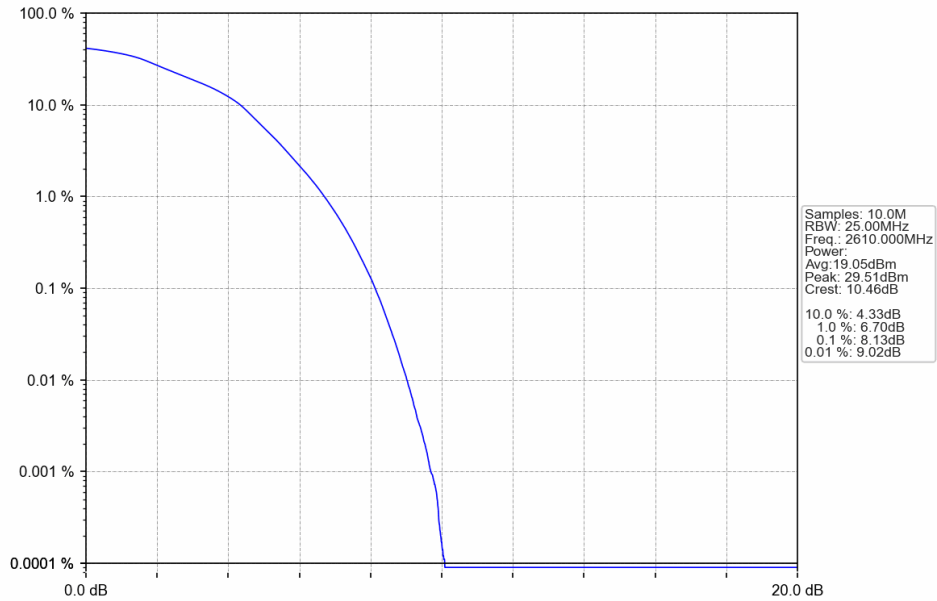
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5. Spurious Emission & Band Edges

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
16QAM	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



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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
16QAM	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



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		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
16QAM	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



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		100	0	Refer To Test Graph	Pass
16QAM	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



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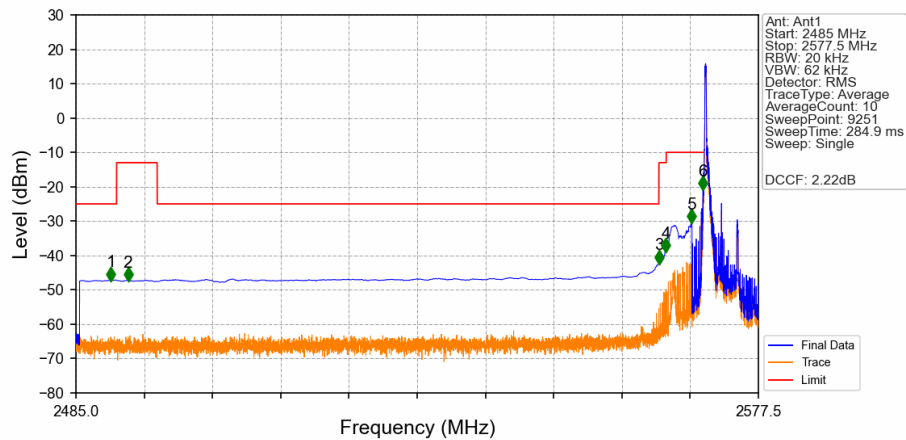
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5.2 Test Graph

5.2.1 B38_5MHz

Band38_5MHz_QPSK_LCH_2572.5MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2489.730	-47.11	-25	Pass
2490.5	2496	1	CHP	2	2492.060	-47.15	-13	Pass
2496	2564	1	CHP	3	2564.000	-42.19	-25	Pass
2564	2565	1	CHP	4	2564.980	-38.84	-13	Pass
2565	2569	1	CHP	5	2568.420	-30.31	-10	Pass
2569	2570	0.02	/	6	2569.990	-20.71	-10	Pass
2570	2577.5	0.02	/	/	/	/	/	/

Band38_5MHz_QPSK_LCH_2572.5MHz_RB_1_0_NTNV



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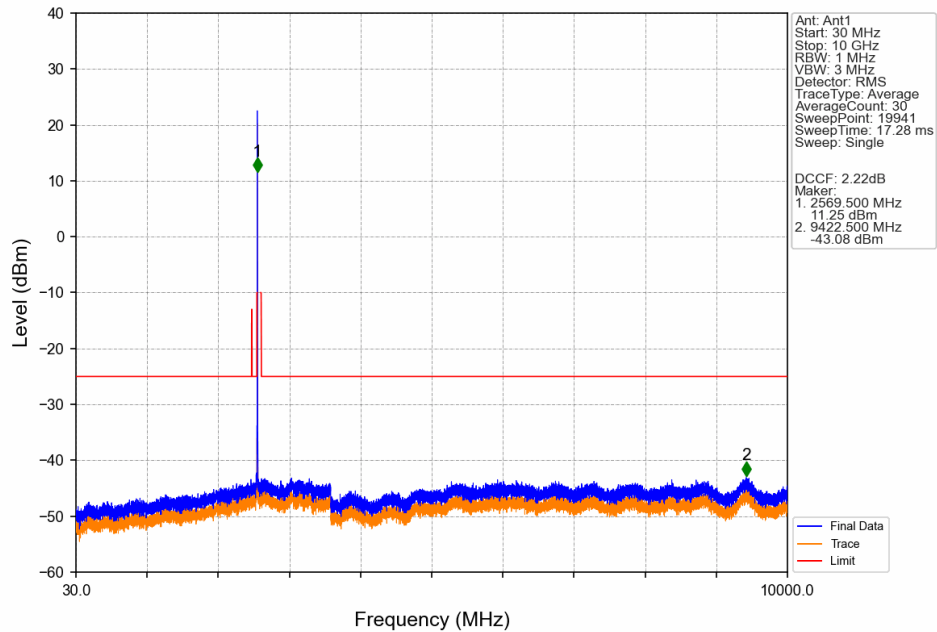
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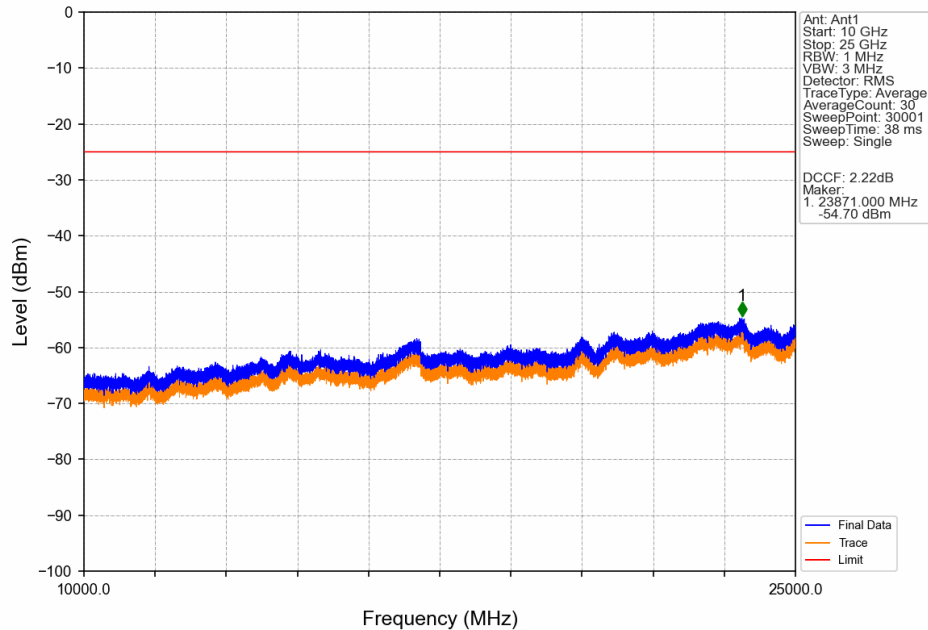
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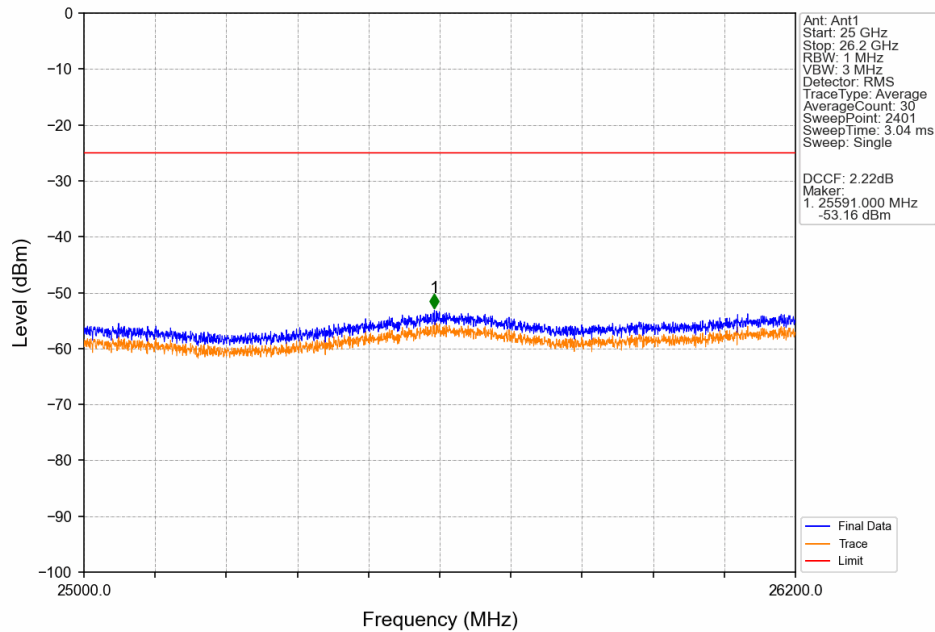
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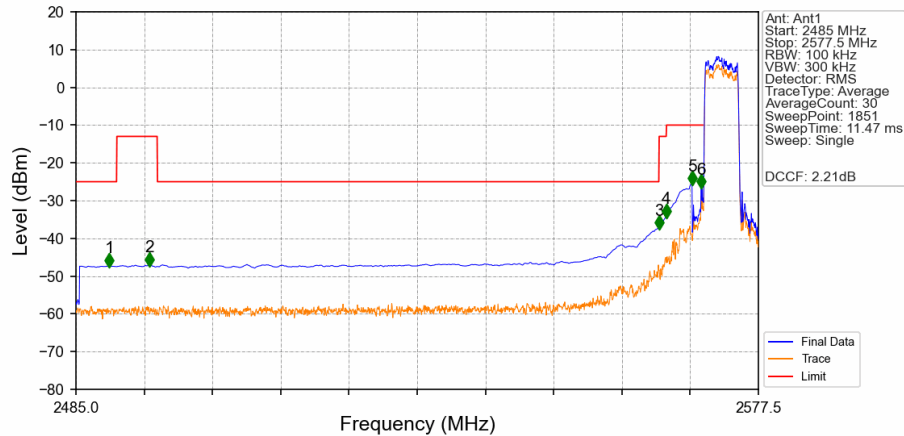
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Band38_5MHz_QPSK_LCH_2572.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2489.500	-47.34	-25	Pass
2490.5	2496	1	CHP	2	2494.950	-47.09	-13	Pass
2496	2564	1	CHP	3	2564.000	-37.31	-25	Pass
2564	2565	1	CHP	4	2565.000	-34.27	-13	Pass
2565	2569	1	CHP	5	2568.500	-25.65	-10	Pass
2569	2570	0.1	/	6	2569.750	-26.45	-10	Pass
2570	2577.5	0.1	/	/	/	/	/	/

Band38_5MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV



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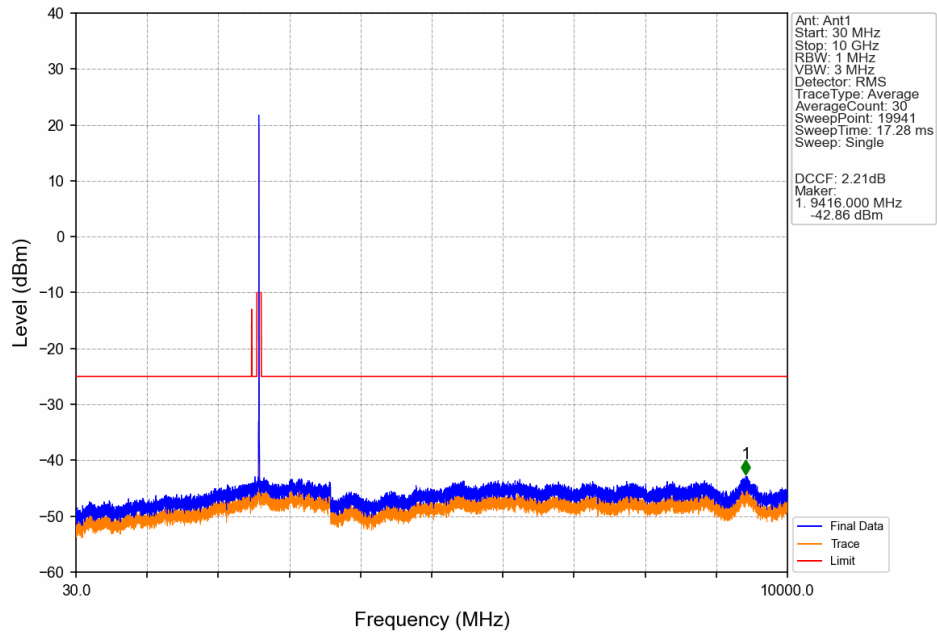
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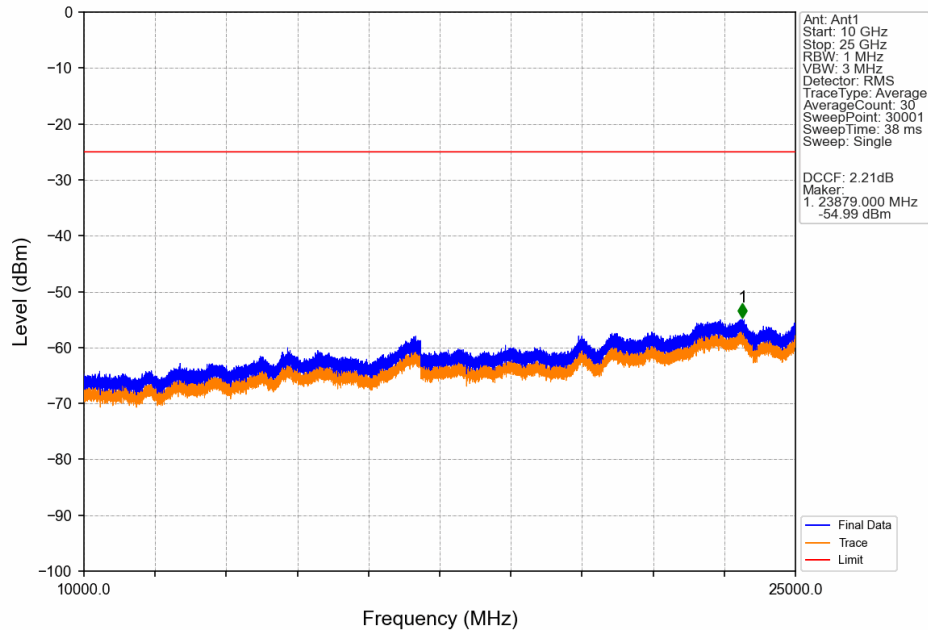
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Band38_5MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV



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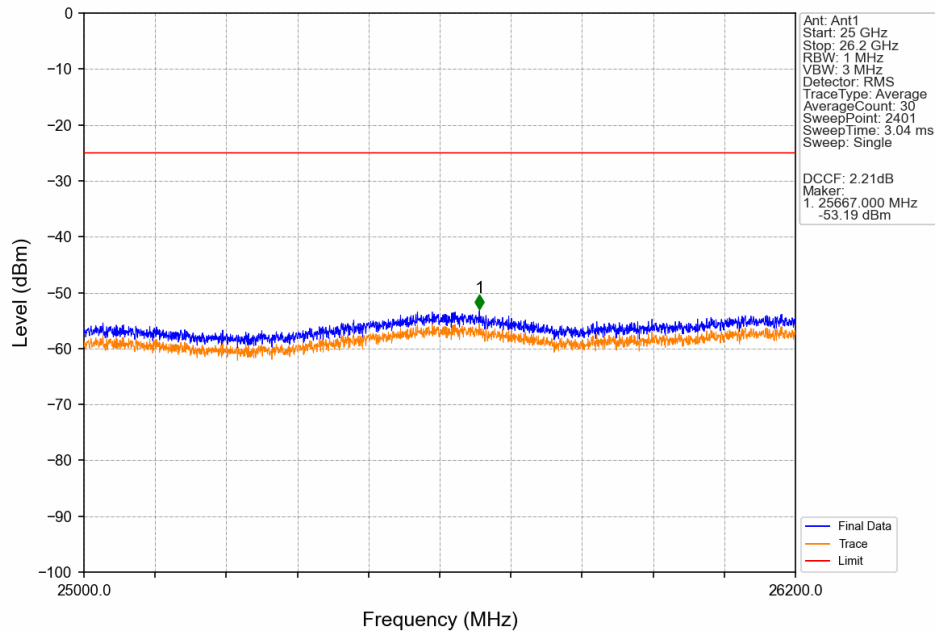
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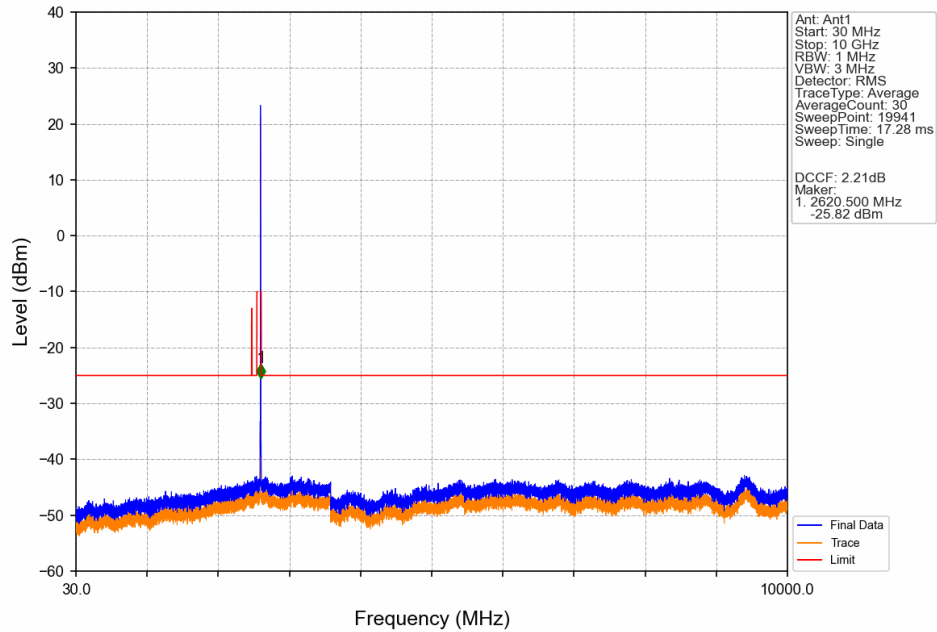
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Band38_5MHz_QPSK_HCH_2617.5MHz_RB_1_0_NTNV



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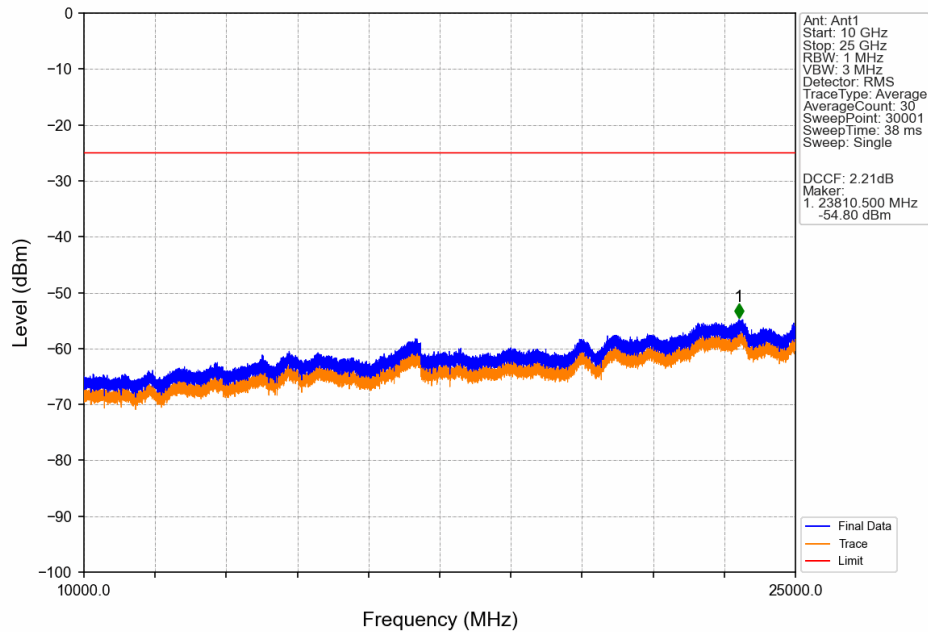
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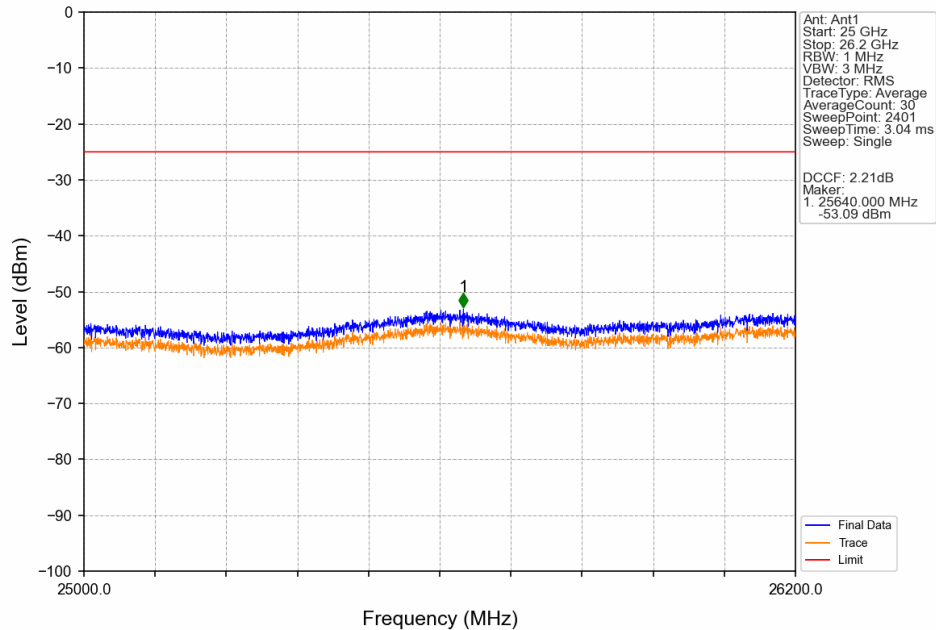
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Band38_5MHz_QPSK_HCH_2617.5MHz_RB_1_24_NTNV



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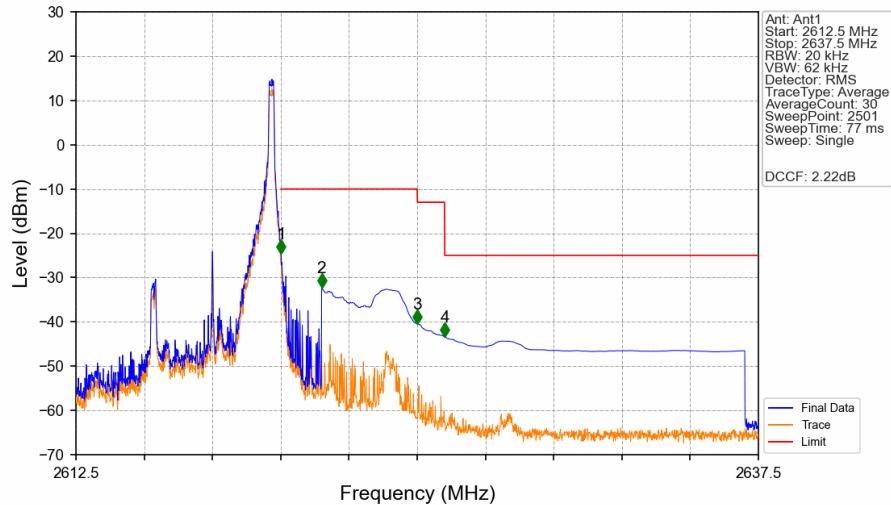
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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2612.5	2620	0.02	/	/	/	/	/	/
2620	2621	0.02	/	1	2620.010	-24.57	-10	Pass
2621	2625	1	CHP	2	2621.500	-32.23	-10	Pass
2625	2626	1	CHP	3	2625.010	-40.36	-13	Pass
2626	2637.5	1	CHP	4	2626.010	-43.42	-25	Pass



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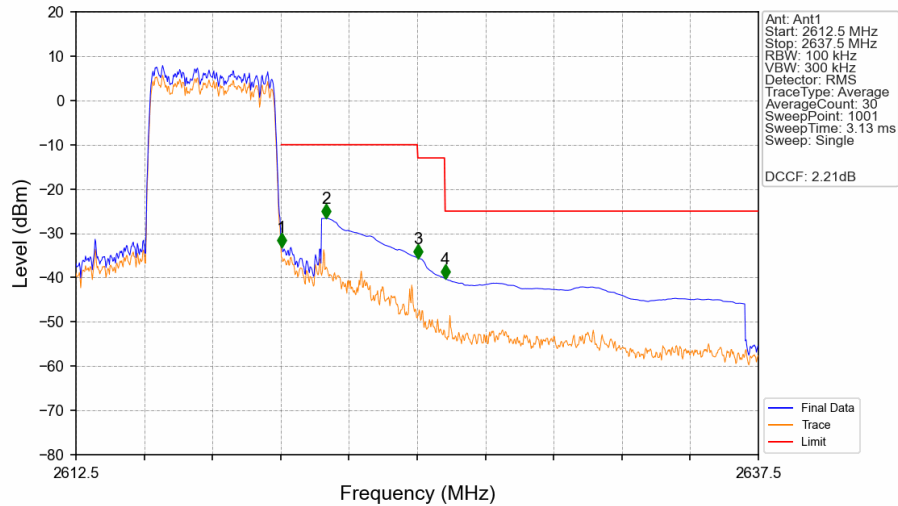
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Band38_5MHz_QPSK_HCH_2617.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2612.5	2620	0.1	/	/	/	/	/	/
2620	2621	0.1	/	1	2620.025	-33.13	-10	Pass
2621	2625	1	CHP	2	2621.675	-26.62	-10	Pass
2625	2626	1	CHP	3	2625.025	-35.61	-13	Pass
2626	2637.5	1	CHP	4	2626.025	-40.21	-25	Pass

Band38_5MHz_16QAM_LCH_2572.5MHz_RB_1_0_NTNV



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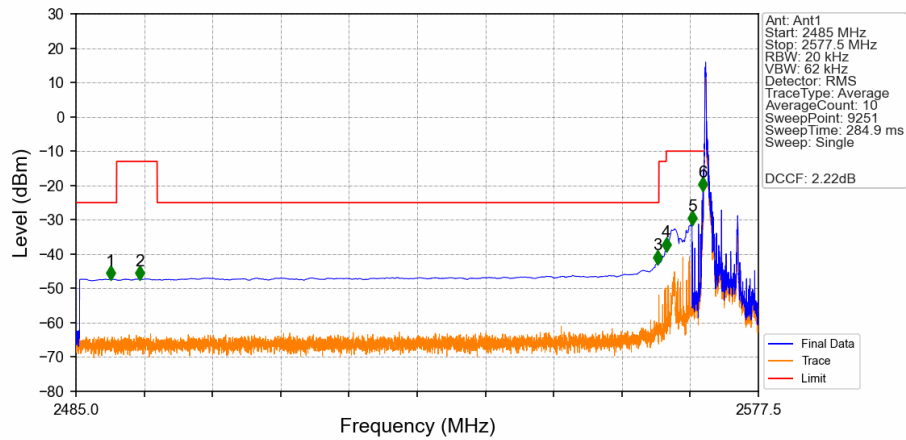
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2485	2490.5	1	CHP	1	2489.690	-47.19	-25	Pass
2490.5	2496	1	CHP	2	2493.630	-47.22	-13	Pass
2496	2564	1	CHP	3	2563.790	-42.67	-25	Pass
2564	2565	1	CHP	4	2564.990	-38.88	-13	Pass
2565	2569	1	CHP	5	2568.490	-31.17	-10	Pass
2569	2570	0.02	/	6	2569.990	-21.42	-10	Pass
2570	2577.5	0.02	/	/	/	/	/	/



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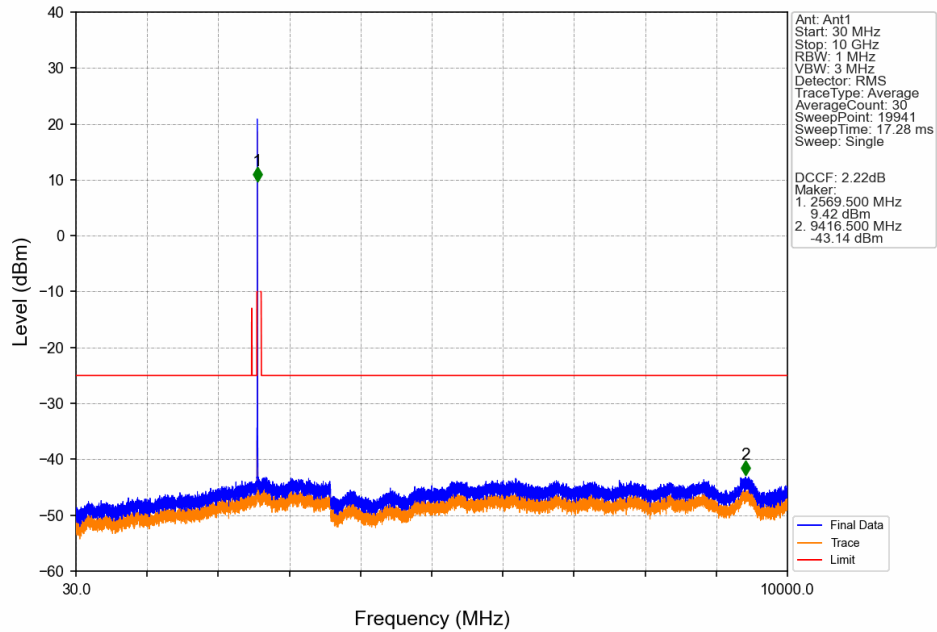
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Band38_5MHz_16QAM_LCH_2572.5MHz_RB_1_0_NTNV



Band38_5MHz_16QAM_LCH_2572.5MHz_RB_1_0_NTNV



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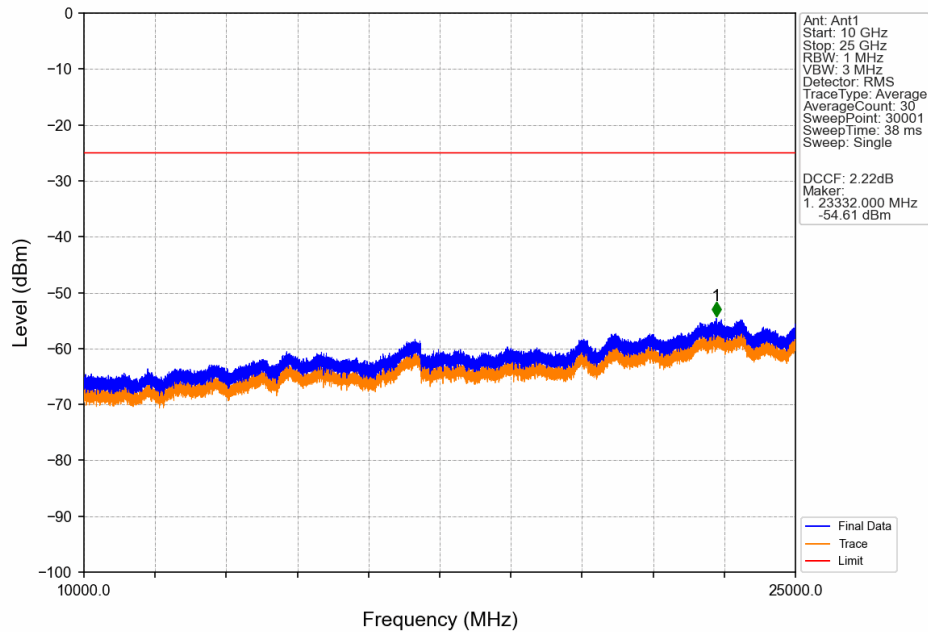
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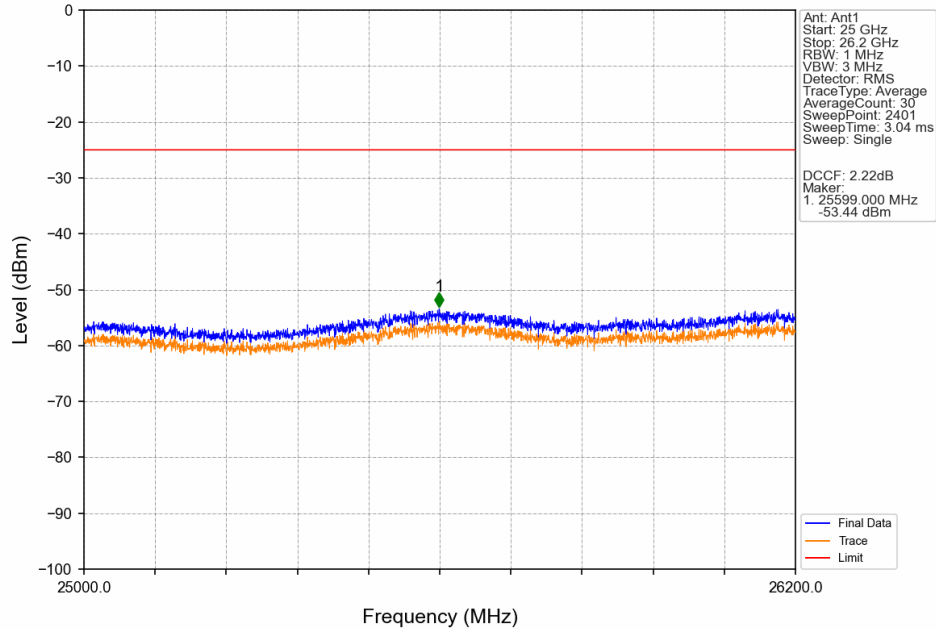
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