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Appendix B.5

LTE Band 4



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1. Effective (Isotropic) Radiated Power Output Data

1.1 B4_1.4MHz_EIRPAnt0

1.1.1 Test Result

Band: 4 / Bandwidth: 1.4MHz / NTN/V								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1710.7	1	0	23.61	2.34	25.95	<=30	Pass
			2	23.79	2.34	26.13	<=30	Pass
			5	23.59	2.34	25.93	<=30	Pass
		3	0	23.66	2.34	26.00	<=30	Pass
			2	23.72	2.34	26.06	<=30	Pass
			3	23.70	2.34	26.04	<=30	Pass
		6	0	22.64	2.34	24.98	<=30	Pass
	1732.5	1	0	23.45	2.34	25.79	<=30	Pass
			2	23.60	2.34	25.94	<=30	Pass
			5	23.43	2.34	25.77	<=30	Pass
		3	0	23.56	2.34	25.90	<=30	Pass
			2	23.59	2.34	25.93	<=30	Pass
			3	23.55	2.34	25.89	<=30	Pass
		6	0	22.50	2.34	24.84	<=30	Pass
	1754.3	1	0	23.39	2.34	25.73	<=30	Pass
			2	23.58	2.34	25.92	<=30	Pass
			5	23.36	2.34	25.70	<=30	Pass
		3	0	23.52	2.34	25.86	<=30	Pass
			2	23.52	2.34	25.86	<=30	Pass
			3	23.48	2.34	25.82	<=30	Pass
		6	0	22.49	2.34	24.83	<=30	Pass
16QAM	1710.7	1	0	22.67	2.34	25.01	<=30	Pass
			2	22.83	2.34	25.17	<=30	Pass
			5	22.66	2.34	25.00	<=30	Pass
		3	0	22.72	2.34	25.06	<=30	Pass
			2	22.71	2.34	25.05	<=30	Pass
			3	22.69	2.34	25.03	<=30	Pass
		6	0	21.80	2.34	24.14	<=30	Pass
	1732.5	1	0	22.70	2.34	25.04	<=30	Pass
			2	22.84	2.34	25.18	<=30	Pass
			5	22.66	2.34	25.00	<=30	Pass
		3	0	22.63	2.34	24.97	<=30	Pass
			2	22.67	2.34	25.01	<=30	Pass
			3	22.62	2.34	24.96	<=30	Pass
		6	0	21.52	2.34	23.86	<=30	Pass
	1754.3	1	0	22.74	2.34	25.08	<=30	Pass
			2	22.89	2.34	25.23	<=30	Pass
			5	22.71	2.34	25.05	<=30	Pass
		3	0	22.65	2.34	24.99	<=30	Pass



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		2	22.65	2.34	24.99	<=30	Pass
		3	22.62	2.34	24.96	<=30	Pass
	6	0	21.56	2.34	23.90	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.2 B4_3MHz_EIRP

1.2.1 Test Result

Band: 4 / Bandwidth: 3MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1711.5	1	0	23.66	2.34	26.00	<=30	Pass
			7	23.61	2.34	25.95	<=30	Pass
			14	23.55	2.34	25.89	<=30	Pass
		8	0	22.64	2.34	24.98	<=30	Pass
			4	22.67	2.34	25.01	<=30	Pass
			7	22.63	2.34	24.97	<=30	Pass
		15	0	22.59	2.34	24.93	<=30	Pass
	1732.5	1	0	23.54	2.34	25.88	<=30	Pass
			7	23.55	2.34	25.89	<=30	Pass
			14	23.56	2.34	25.90	<=30	Pass
		8	0	22.51	2.34	24.85	<=30	Pass
			4	22.50	2.34	24.84	<=30	Pass
			7	22.48	2.34	24.82	<=30	Pass
		15	0	22.47	2.34	24.81	<=30	Pass
	1753.5	1	0	23.48	2.34	25.82	<=30	Pass
			7	23.46	2.34	25.80	<=30	Pass
			14	23.45	2.34	25.79	<=30	Pass
		8	0	22.47	2.34	24.81	<=30	Pass
			4	22.49	2.34	24.83	<=30	Pass
			7	22.42	2.34	24.76	<=30	Pass
		15	0	22.48	2.34	24.82	<=30	Pass
16QAM	1711.5	1	0	22.79	2.34	25.13	<=30	Pass
			7	22.85	2.34	25.19	<=30	Pass
			14	22.83	2.34	25.17	<=30	Pass
		8	0	21.82	2.34	24.16	<=30	Pass
			4	21.88	2.34	24.22	<=30	Pass
			7	21.84	2.34	24.18	<=30	Pass
		15	0	21.71	2.34	24.05	<=30	Pass
	1732.5	1	0	22.62	2.34	24.96	<=30	Pass
			7	22.62	2.34	24.96	<=30	Pass
			14	22.55	2.34	24.89	<=30	Pass
		8	0	21.76	2.34	24.10	<=30	Pass
			4	21.74	2.34	24.08	<=30	Pass
			7	21.71	2.34	24.05	<=30	Pass
		15	0	21.57	2.34	23.91	<=30	Pass



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	1753.5	1	0	22.75	2.34	25.09	<=30	Pass
			7	22.65	2.34	24.99	<=30	Pass
			14	22.60	2.34	24.94	<=30	Pass
		8	0	21.56	2.34	23.90	<=30	Pass
			4	21.55	2.34	23.89	<=30	Pass
			7	21.51	2.34	23.85	<=30	Pass
		15	0	21.57	2.34	23.91	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.3 B4_5MHz_EIRP

1.3.1 Test Result

Band: 4 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1712.5	1	0	23.57	2.34	25.91	<=30	Pass
			13	23.60	2.34	25.94	<=30	Pass
			24	23.49	2.34	25.83	<=30	Pass
		12	0	22.57	2.34	24.91	<=30	Pass
			6	22.64	2.34	24.98	<=30	Pass
			13	22.58	2.34	24.92	<=30	Pass
		25	0	22.59	2.34	24.93	<=30	Pass
	1732.5	1	0	23.47	2.34	25.81	<=30	Pass
			13	23.57	2.34	25.91	<=30	Pass
			24	23.39	2.34	25.73	<=30	Pass
		12	0	22.50	2.34	24.84	<=30	Pass
			6	22.54	2.34	24.88	<=30	Pass
			13	22.49	2.34	24.83	<=30	Pass
		25	0	22.49	2.34	24.83	<=30	Pass
	1752.5	1	0	23.46	2.34	25.80	<=30	Pass
			13	23.56	2.34	25.90	<=30	Pass
			24	23.42	2.34	25.76	<=30	Pass
		12	0	22.50	2.34	24.84	<=30	Pass
			6	22.53	2.34	24.87	<=30	Pass
			13	22.52	2.34	24.86	<=30	Pass
		25	0	22.51	2.34	24.85	<=30	Pass
16QAM	1712.5	1	0	22.76	2.34	25.10	<=30	Pass
			13	22.81	2.34	25.15	<=30	Pass
			24	22.71	2.34	25.05	<=30	Pass
		12	0	21.64	2.34	23.98	<=30	Pass
			6	21.73	2.34	24.07	<=30	Pass
			13	21.68	2.34	24.02	<=30	Pass
		25	0	21.69	2.34	24.03	<=30	Pass
	1732.5	1	0	22.70	2.34	25.04	<=30	Pass
			13	22.74	2.34	25.08	<=30	Pass
			24	22.60	2.34	24.94	<=30	Pass



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		12	0	21.53	2.34	23.87	<=30	Pass
			6	21.55	2.34	23.89	<=30	Pass
			13	21.49	2.34	23.83	<=30	Pass
		25	0	21.57	2.34	23.91	<=30	Pass
	1752.5	1	0	22.72	2.34	25.06	<=30	Pass
			13	22.80	2.34	25.14	<=30	Pass
			24	22.66	2.34	25.00	<=30	Pass
		12	0	21.49	2.34	23.83	<=30	Pass
			6	21.54	2.34	23.88	<=30	Pass
			13	21.47	2.34	23.81	<=30	Pass
		25	0	21.59	2.34	23.93	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.4 B4_10MHz_EIRP

1.4.1 Test Result

Band: 4 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1715	1	0	23.62	2.34	25.96	<=30	Pass
			25	23.71	2.34	26.05	<=30	Pass
			49	23.52	2.34	25.86	<=30	Pass
		25	0	22.59	2.34	24.93	<=30	Pass
			13	22.66	2.34	25.00	<=30	Pass
			25	22.63	2.34	24.97	<=30	Pass
		50	0	22.61	2.34	24.95	<=30	Pass
	1732.5	1	0	23.60	2.34	25.94	<=30	Pass
			25	23.77	2.34	26.11	<=30	Pass
			49	23.40	2.34	25.74	<=30	Pass
		25	0	22.55	2.34	24.89	<=30	Pass
			13	22.59	2.34	24.93	<=30	Pass
			25	22.50	2.34	24.84	<=30	Pass
		50	0	22.50	2.34	24.84	<=30	Pass
	1750	1	0	23.40	2.34	25.74	<=30	Pass
			25	23.64	2.34	25.98	<=30	Pass
			49	23.37	2.34	25.71	<=30	Pass
		25	0	22.48	2.34	24.82	<=30	Pass
			13	22.59	2.34	24.93	<=30	Pass
			25	22.52	2.34	24.86	<=30	Pass
		50	0	22.52	2.34	24.86	<=30	Pass
16QAM	1715	1	0	22.80	2.34	25.14	<=30	Pass
			25	22.99	2.34	25.33	<=30	Pass
			49	22.74	2.34	25.08	<=30	Pass
		25	0	21.73	2.34	24.07	<=30	Pass
			13	21.80	2.34	24.14	<=30	Pass
			25	21.74	2.34	24.08	<=30	Pass



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	1732.5	50	0	21.63	2.34	23.97	<=30	Pass
		1	0	22.65	2.34	24.99	<=30	Pass
			25	22.78	2.34	25.12	<=30	Pass
			49	22.53	2.34	24.87	<=30	Pass
			0	21.70	2.34	24.04	<=30	Pass
		25	13	21.70	2.34	24.04	<=30	Pass
			25	21.61	2.34	23.95	<=30	Pass
		50	0	21.59	2.34	23.93	<=30	Pass
	1750	1	0	22.69	2.34	25.03	<=30	Pass
			25	22.88	2.34	25.22	<=30	Pass
			49	22.58	2.34	24.92	<=30	Pass
			0	21.58	2.34	23.92	<=30	Pass
		25	13	21.63	2.34	23.97	<=30	Pass
			25	21.59	2.34	23.93	<=30	Pass
			50	21.52	2.34	23.86	<=30	Pass
		50	0	21.52	2.34	23.86	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.5 B4_15MHz_EIRP

1.5.1 Test Result

Band: 4 / Bandwidth: 15MHz / NTNv								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1717.5	1	0	23.60	2.34	25.94	<=30	Pass
			38	23.61	2.34	25.95	<=30	Pass
			74	23.47	2.34	25.81	<=30	Pass
		36	0	22.62	2.34	24.96	<=30	Pass
			18	22.67	2.34	25.01	<=30	Pass
			39	22.64	2.34	24.98	<=30	Pass
		75	0	22.63	2.34	24.97	<=30	Pass
	1732.5	1	0	23.60	2.34	25.94	<=30	Pass
			38	23.59	2.34	25.93	<=30	Pass
			74	23.40	2.34	25.74	<=30	Pass
		36	0	22.62	2.34	24.96	<=30	Pass
			18	22.56	2.34	24.90	<=30	Pass
			39	22.53	2.34	24.87	<=30	Pass
		75	0	22.58	2.34	24.92	<=30	Pass
	1747.5	1	0	23.42	2.34	25.76	<=30	Pass
			38	23.50	2.34	25.84	<=30	Pass
			74	23.37	2.34	25.71	<=30	Pass
		36	0	22.50	2.34	24.84	<=30	Pass
			18	22.56	2.34	24.90	<=30	Pass
			39	22.58	2.34	24.92	<=30	Pass
		75	0	22.50	2.34	24.84	<=30	Pass
16QAM	1717.5	1	0	22.80	2.34	25.14	<=30	Pass
			38	22.82	2.34	25.16	<=30	Pass



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		36	74	22.70	2.34	25.04	<=30	Pass
			0	21.69	2.34	24.03	<=30	Pass
			18	21.71	2.34	24.05	<=30	Pass
			39	21.66	2.34	24.00	<=30	Pass
		75	0	21.63	2.34	23.97	<=30	Pass
	1732.5	1	0	22.63	2.34	24.97	<=30	Pass
			38	22.61	2.34	24.95	<=30	Pass
			74	22.45	2.34	24.79	<=30	Pass
		36	0	21.65	2.34	23.99	<=30	Pass
			18	21.60	2.34	23.94	<=30	Pass
			39	21.54	2.34	23.88	<=30	Pass
		75	0	21.61	2.34	23.95	<=30	Pass
	1747.5	1	0	22.92	2.34	25.26	<=30	Pass
			38	22.99	2.34	25.33	<=30	Pass
			74	22.85	2.34	25.19	<=30	Pass
		36	0	21.55	2.34	23.89	<=30	Pass
			18	21.54	2.34	23.88	<=30	Pass
			39	21.51	2.34	23.85	<=30	Pass
		75	0	21.54	2.34	23.88	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.6 B4_20MHz_EIRP

1.6.1 Test Result

Band: 4 / Bandwidth: 20MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1720	1	0	23.59	2.34	25.93	<=30	Pass
			50	23.77	2.34	26.11	<=30	Pass
			99	23.40	2.34	25.74	<=30	Pass
		50	0	22.57	2.34	24.91	<=30	Pass
			25	22.59	2.34	24.93	<=30	Pass
			50	22.52	2.34	24.86	<=30	Pass
		100	0	22.52	2.34	24.86	<=30	Pass
	1732.5	1	0	23.52	2.34	25.86	<=30	Pass
			50	23.73	2.34	26.07	<=30	Pass
			99	23.23	2.34	25.57	<=30	Pass
		50	0	22.57	2.34	24.91	<=30	Pass
			25	22.53	2.34	24.87	<=30	Pass
			50	22.43	2.34	24.77	<=30	Pass
		100	0	22.48	2.34	24.82	<=30	Pass
	1745	1	0	23.43	2.34	25.77	<=30	Pass
			50	23.69	2.34	26.03	<=30	Pass
			99	23.38	2.34	25.72	<=30	Pass
		50	0	22.47	2.34	24.81	<=30	Pass
			25	22.50	2.34	24.84	<=30	Pass



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			50	22.50	2.34	24.84	<=30	Pass		
		100	0	22.46	2.34	24.80	<=30	Pass		
16QAM	1720	1	0	22.80	2.34	25.14	<=30	Pass		
			50	22.97	2.34	25.31	<=30	Pass		
			99	22.59	2.34	24.93	<=30	Pass		
		50	0	21.65	2.34	23.99	<=30	Pass		
			25	21.69	2.34	24.03	<=30	Pass		
			50	21.56	2.34	23.90	<=30	Pass		
		100	0	21.61	2.34	23.95	<=30	Pass		
		1732.5	1	0	22.95	2.34	25.29	<=30	Pass	
				50	23.11	2.34	25.45	<=30	Pass	
	99			22.75	2.34	25.09	<=30	Pass		
	50		0	21.68	2.34	24.02	<=30	Pass		
			25	21.63	2.34	23.97	<=30	Pass		
			50	21.47	2.34	23.81	<=30	Pass		
	100		0	21.58	2.34	23.92	<=30	Pass		
	1745		1	0	22.68	2.34	25.02	<=30	Pass	
				50	22.92	2.34	25.26	<=30	Pass	
		99		22.52	2.34	24.86	<=30	Pass		
		50	0	21.61	2.34	23.95	<=30	Pass		
			25	21.61	2.34	23.95	<=30	Pass		
			50	21.56	2.34	23.90	<=30	Pass		
		100	0	21.59	2.34	23.93	<=30	Pass		
		Note1: EIRP=Conducted Power+Antenna Gain								



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2. Frequency Stability

2.6 B4_20MHz

2.6.1 Test Result

Band: 4 / Bandwidth: 20MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1720	100	0	20	8	-6.077	-0.0035	/	Pass
					12	-5.740	-0.0033	/	Pass
					16	-5.681	-0.0033	/	Pass
				-30	12	-2.205	-0.0013	/	Pass
				-20	12	-3.681	-0.0021	/	Pass
				-10	12	-3.369	-0.0020	/	Pass
				0	12	-1.828	-0.0011	/	Pass
				10	12	-0.213	-0.0001	/	Pass
				30	12	-4.223	-0.0025	/	Pass
				40	12	-4.700	-0.0027	/	Pass
	50	12	-4.415	-0.0026	/	Pass			
	1732.5	100	0	20	8	-2.386	-0.0014	/	Pass
					12	-7.144	-0.0041	/	Pass
					16	-4.372	-0.0025	/	Pass
				-30	12	-7.968	-0.0046	/	Pass
				-20	12	-9.412	-0.0054	/	Pass
				-10	12	-0.960	-0.0006	/	Pass
				0	12	-1.728	-0.0010	/	Pass
				10	12	-5.146	-0.0030	/	Pass
				30	12	-3.846	-0.0022	/	Pass
				40	12	-5.449	-0.0031	/	Pass
	50	12	-6.709	-0.0039	/	Pass			
	1745	100	0	20	8	-7.231	-0.0041	/	Pass
					12	-6.941	-0.0040	/	Pass
					16	-6.983	-0.0040	/	Pass
				-30	12	-4.093	-0.0023	/	Pass
				-20	12	-3.260	-0.0019	/	Pass
				-10	12	-8.224	-0.0047	/	Pass
				0	12	-2.893	-0.0017	/	Pass
				10	12	-4.993	-0.0029	/	Pass
30				12	-3.423	-0.0020	/	Pass	
40				12	-2.925	-0.0017	/	Pass	
50	12	-5.298	-0.0030	/	Pass				
16QAM	1720	100	0	20	8	-0.307	-0.0002	/	Pass
					12	-2.363	-0.0014	/	Pass
					16	-0.972	-0.0006	/	Pass
				-30	12	-4.518	-0.0026	/	Pass
				-20	12	-4.749	-0.0028	/	Pass
				-10	12	-4.179	-0.0024	/	Pass



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				0	12	-6.015	-0.0035	/	Pass
				10	12	-5.930	-0.0034	/	Pass
				30	12	-4.053	-0.0024	/	Pass
				40	12	-3.312	-0.0019	/	Pass
				50	12	-2.059	-0.0012	/	Pass
	1732.5	100	0	20	8	-7.288	-0.0042	/	Pass
					12	-4.395	-0.0025	/	Pass
					16	-6.788	-0.0039	/	Pass
				-30	12	-0.831	-0.0005	/	Pass
				-20	12	-0.681	-0.0004	/	Pass
				-10	12	-4.598	-0.0027	/	Pass
				0	12	-7.539	-0.0044	/	Pass
				10	12	-1.480	-0.0009	/	Pass
				30	12	3.114	0.0018	/	Pass
				40	12	0.932	0.0005	/	Pass
				50	12	-2.186	-0.0013	/	Pass
	1745	100	0	20	8	-3.608	-0.0021	/	Pass
					12	-3.510	-0.0020	/	Pass
					16	-2.422	-0.0014	/	Pass
				-30	12	-4.676	-0.0027	/	Pass
				-20	12	-4.453	-0.0026	/	Pass
				-10	12	-3.304	-0.0019	/	Pass
				0	12	-5.579	-0.0032	/	Pass
				10	12	-5.647	-0.0032	/	Pass
				30	12	-5.856	-0.0034	/	Pass
				40	12	-7.314	-0.0042	/	Pass
				50	12	-2.117	-0.0012	/	Pass



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3. 99% & 26dB Bandwidth

3.1 Band4_OBW

3.1.1 Test Result

Band: 4 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	1710.7	6	0	1.118	/	Pass
		1732.5	6	0	1.115	/	Pass
		1754.3	6	0	1.111	/	Pass
	16QAM	1710.7	6	0	1.100	/	Pass
		1732.5	6	0	1.104	/	Pass
		1754.3	6	0	1.109	/	Pass
3	QPSK	1711.5	15	0	2.726	/	Pass
		1732.5	15	0	2.734	/	Pass
		1753.5	15	0	2.729	/	Pass
	16QAM	1711.5	15	0	2.717	/	Pass
		1732.5	15	0	2.724	/	Pass
		1753.5	15	0	2.718	/	Pass
5	QPSK	1712.5	25	0	4.575	/	Pass
		1732.5	25	0	4.563	/	Pass
		1752.5	25	0	4.560	/	Pass
	16QAM	1712.5	25	0	4.560	/	Pass
		1732.5	25	0	4.576	/	Pass
		1752.5	25	0	4.589	/	Pass
10	QPSK	1715	50	0	9.053	/	Pass
		1732.5	50	0	9.057	/	Pass
		1750	50	0	9.083	/	Pass
	16QAM	1715	50	0	9.077	/	Pass
		1732.5	50	0	9.055	/	Pass
		1750	50	0	9.054	/	Pass
15	QPSK	1717.5	75	0	13.604	/	Pass
		1732.5	75	0	13.595	/	Pass
		1747.5	75	0	13.623	/	Pass
	16QAM	1717.5	75	0	13.630	/	Pass
		1732.5	75	0	13.609	/	Pass
		1747.5	75	0	13.652	/	Pass
20	QPSK	1720	100	0	18.074	/	Pass
		1732.5	100	0	18.133	/	Pass
		1745	100	0	18.153	/	Pass
	16QAM	1720	100	0	18.119	/	Pass
		1732.5	100	0	18.136	/	Pass
		1745	100	0	18.166	/	Pass



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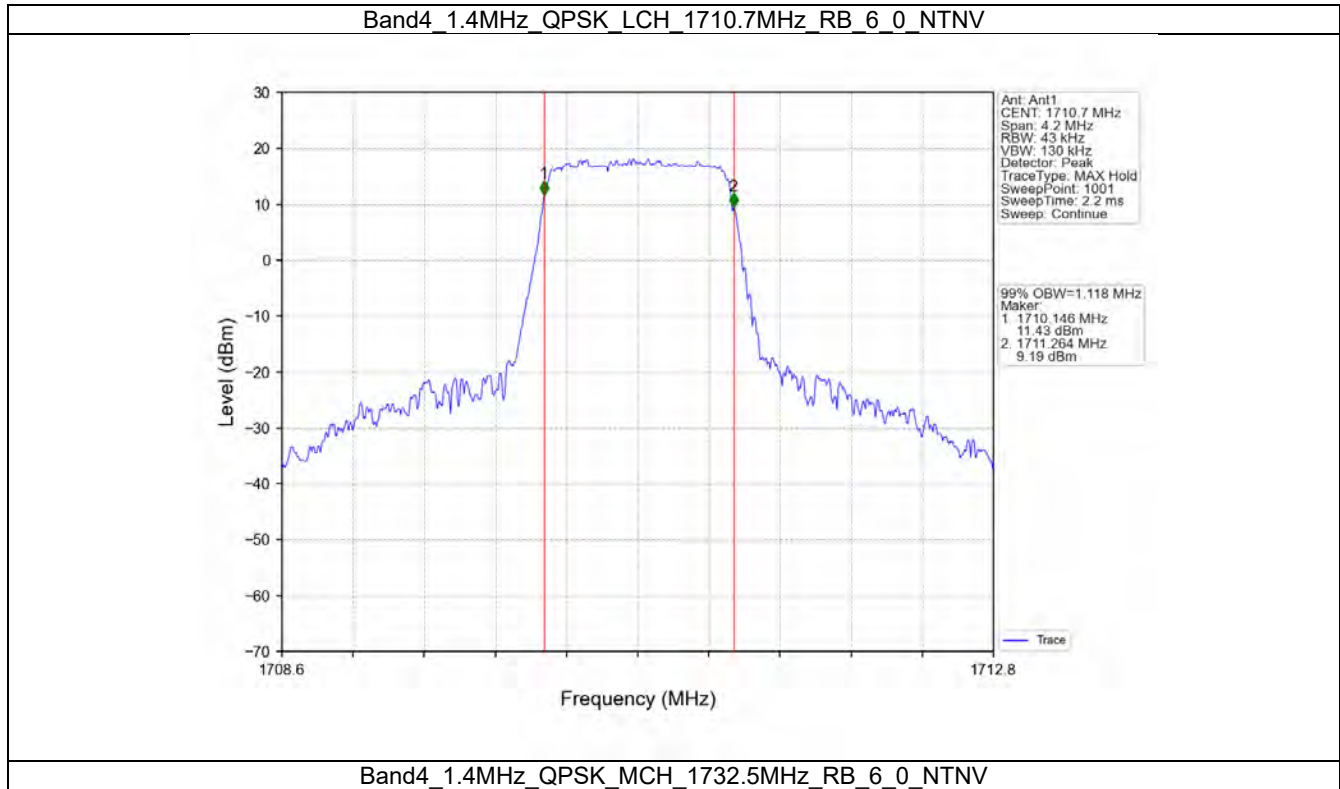
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3.1.2 Test Graph



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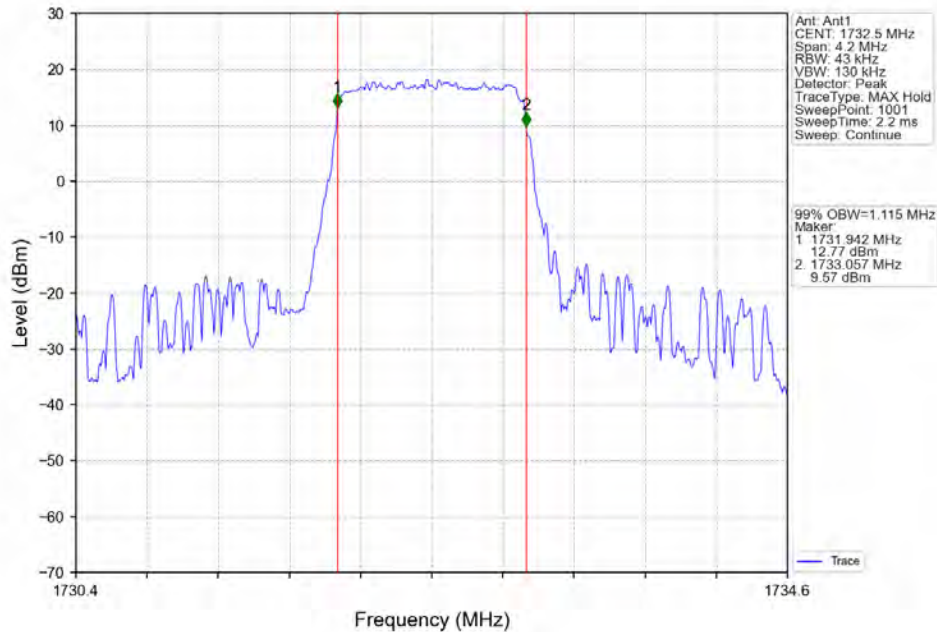
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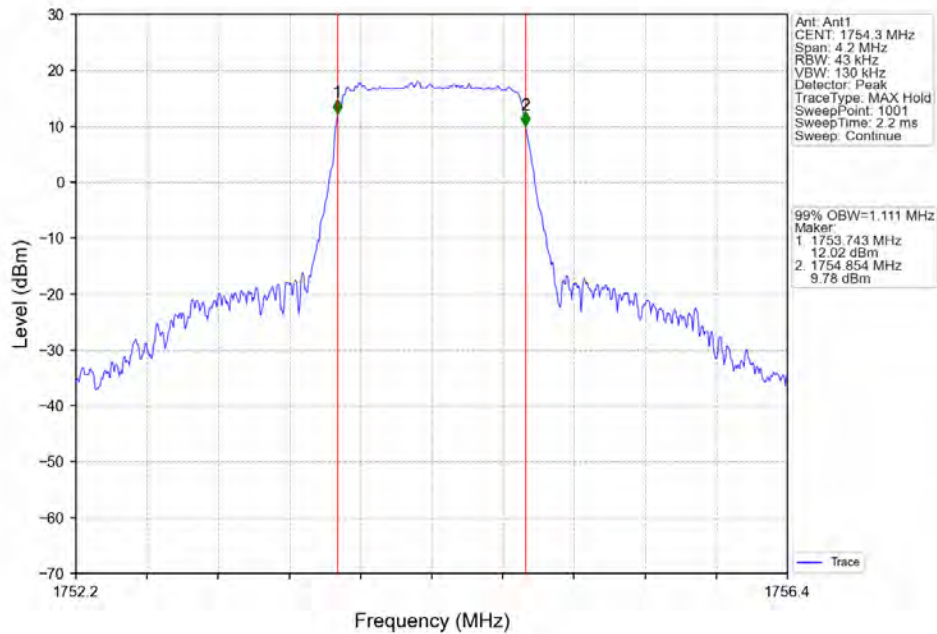
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Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV



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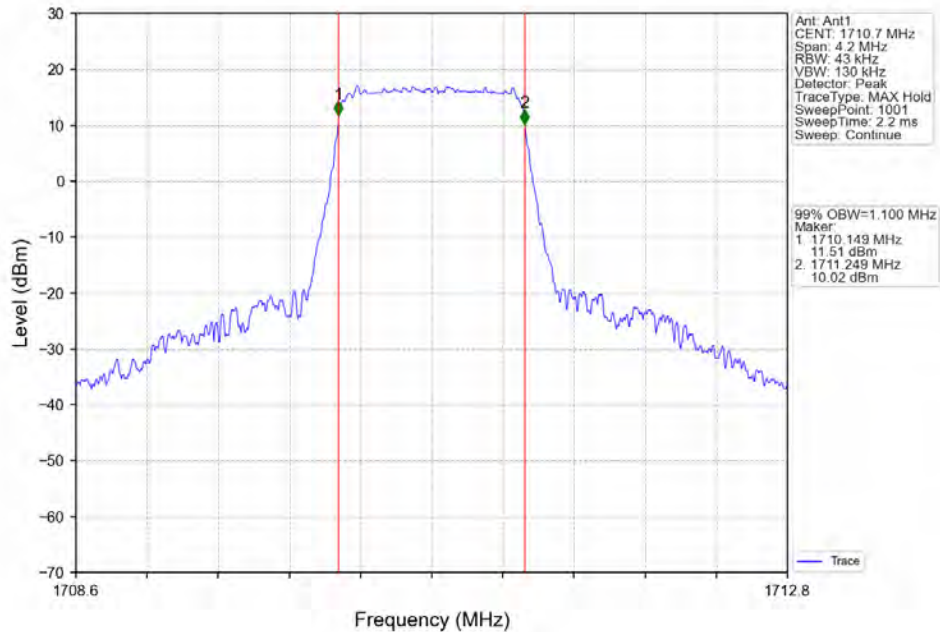
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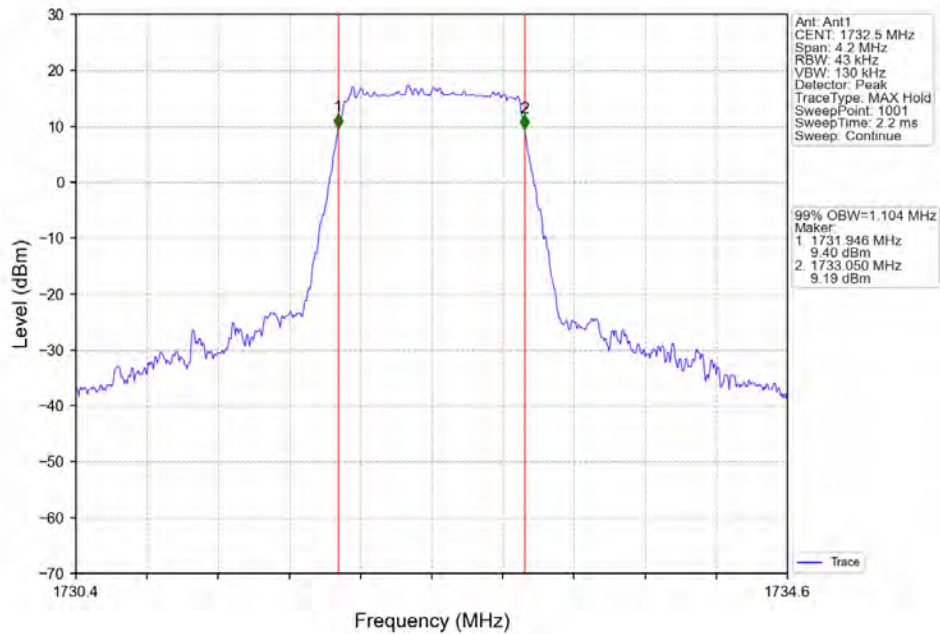
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Band4 1.4MHz 16QAM MCH 1732.5MHz RB 6 0 NTNV



Band4 1.4MHz 16QAM HCH 1754.3MHz RB 6 0 NTNV



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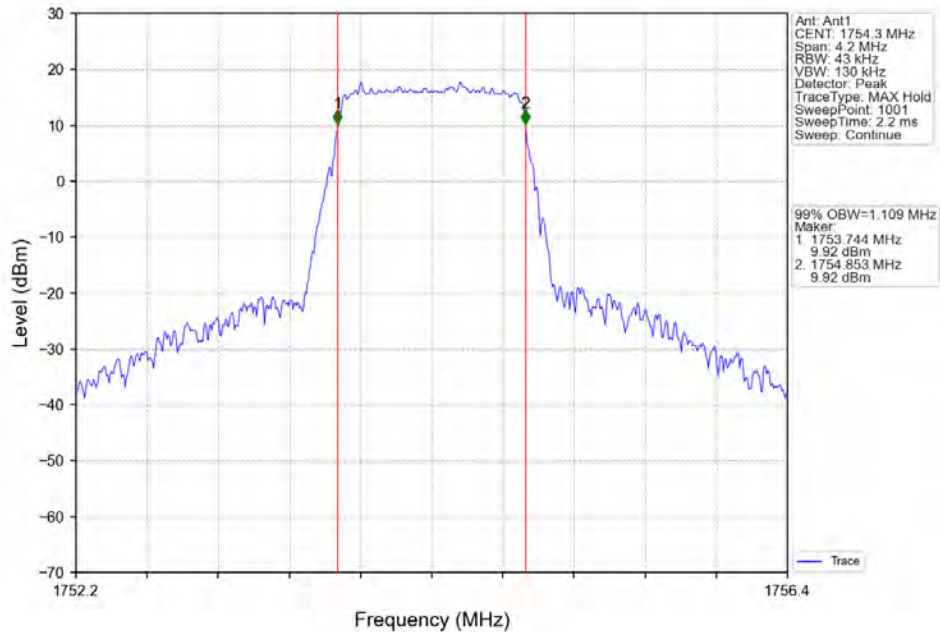
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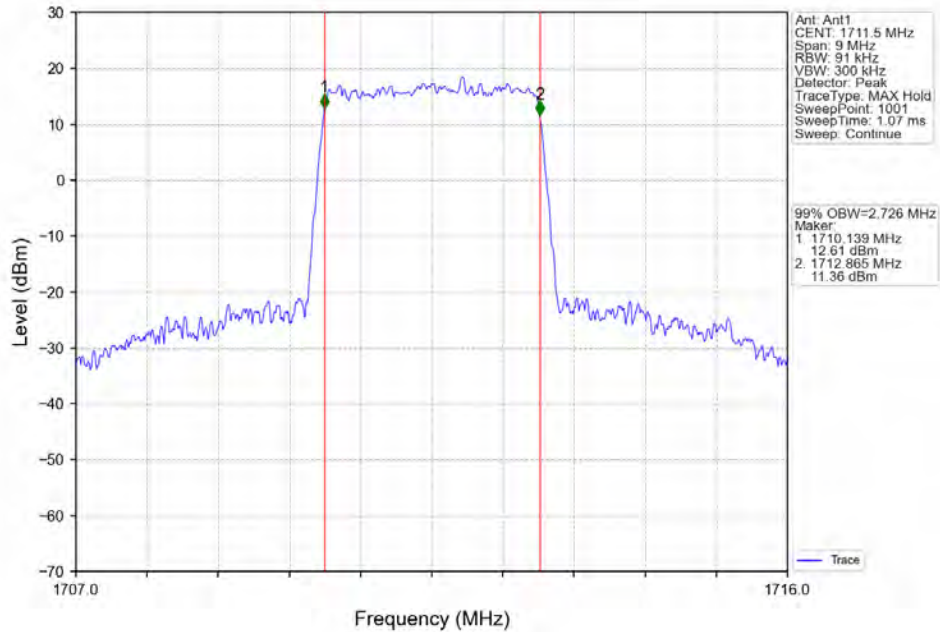
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Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV



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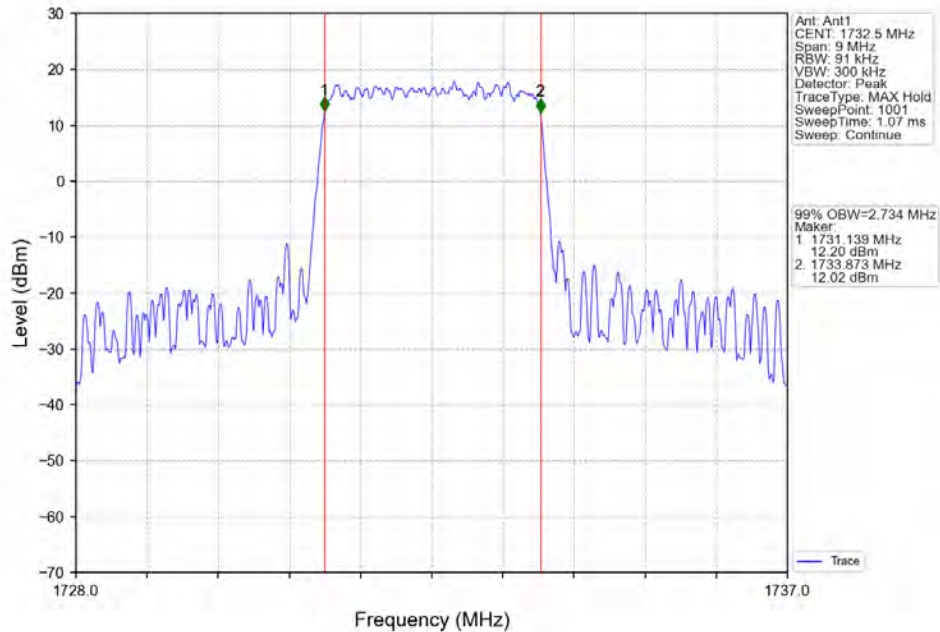
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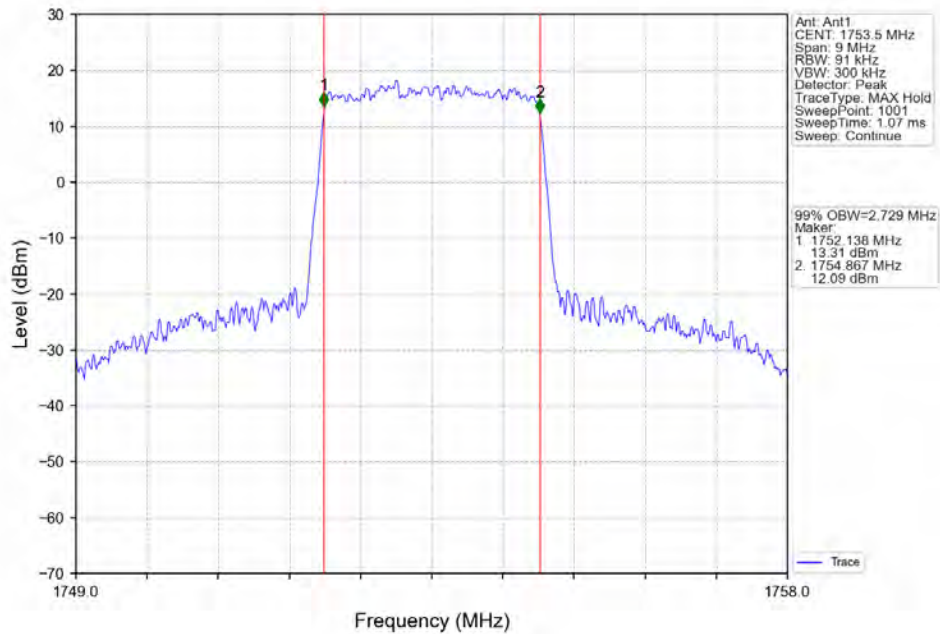
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Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV



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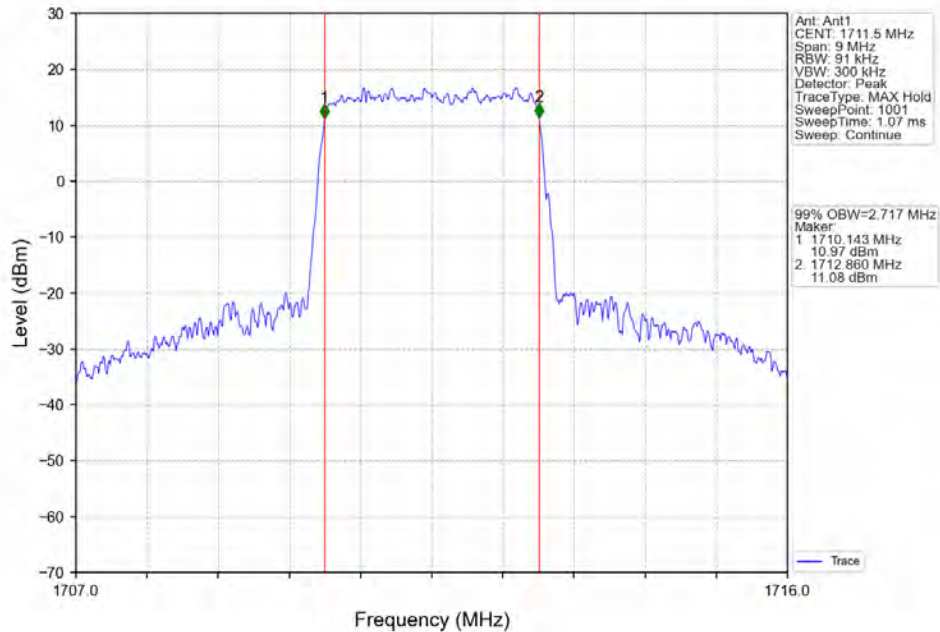
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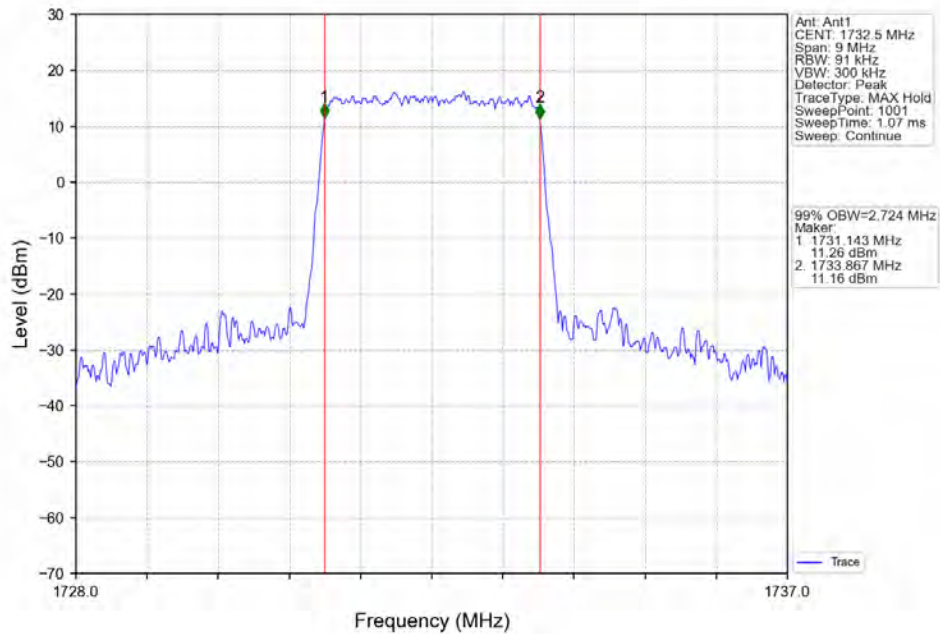
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Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV



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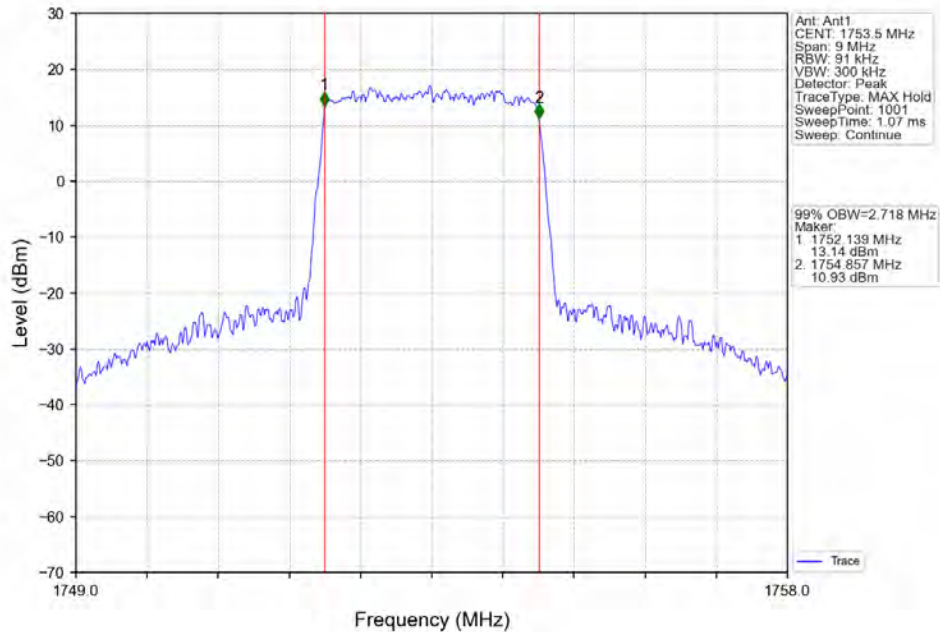
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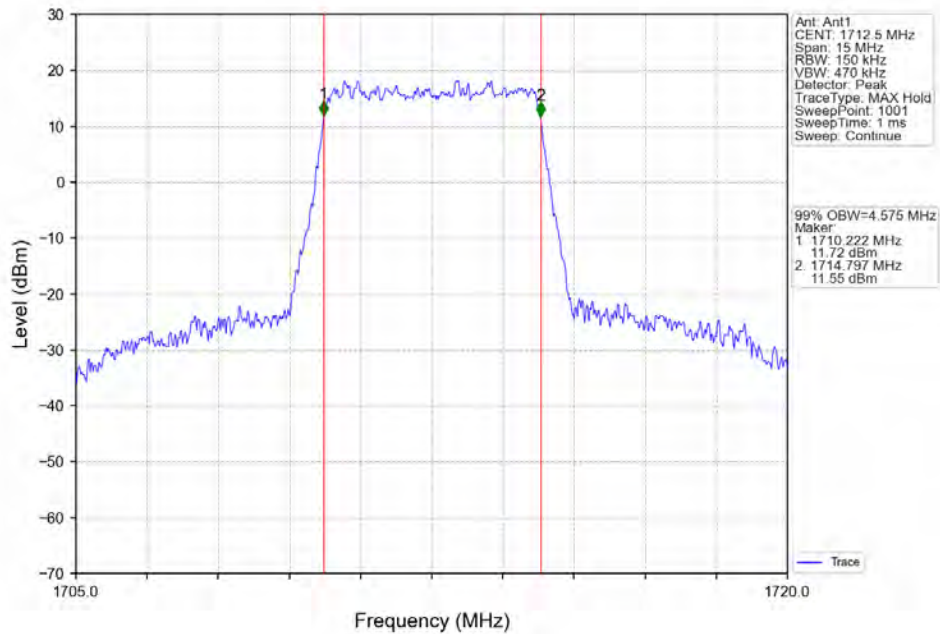
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Band4 5MHz QPSK LCH 1712.5MHz RB 25 0 NTNV



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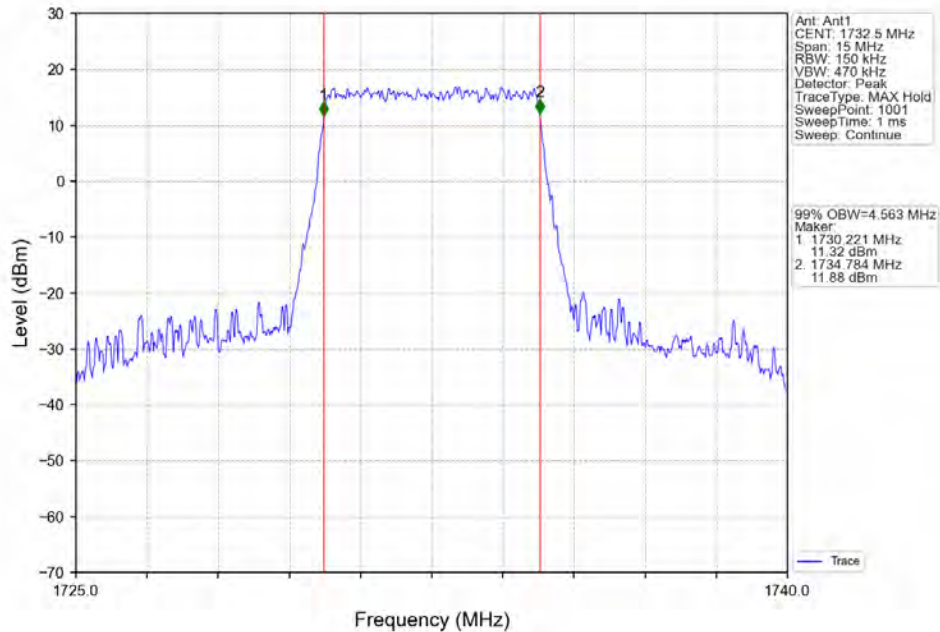
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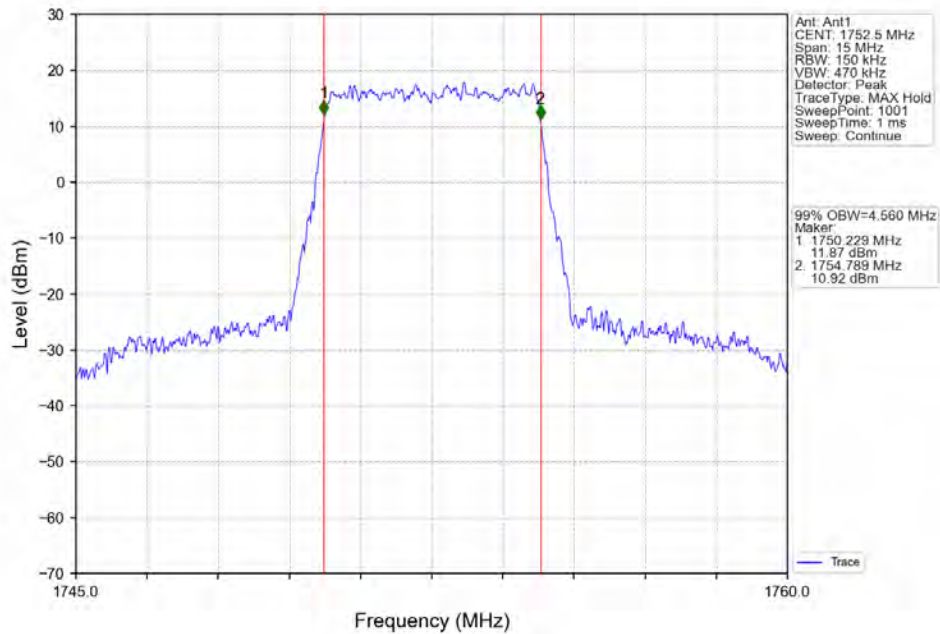
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Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV



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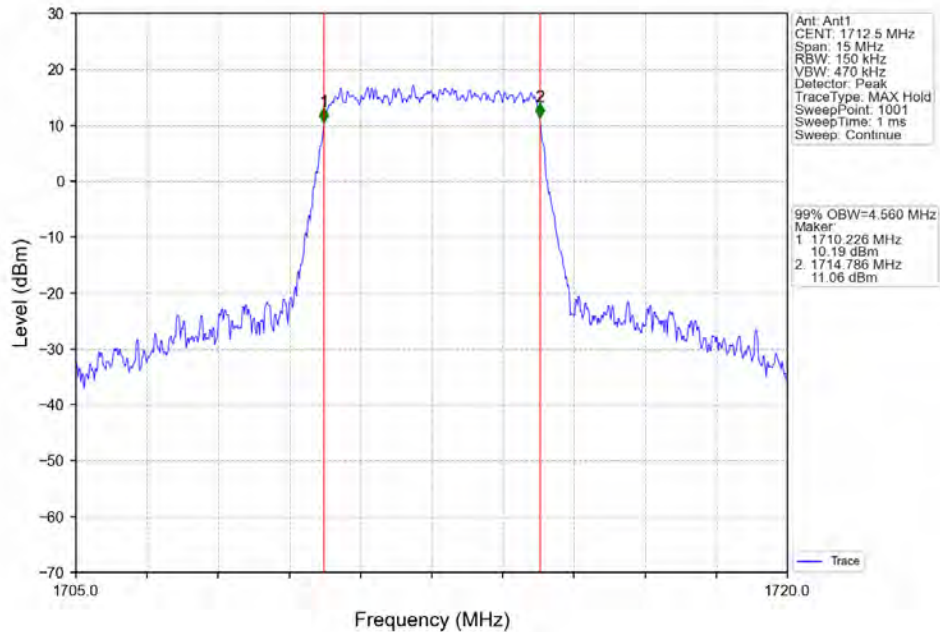
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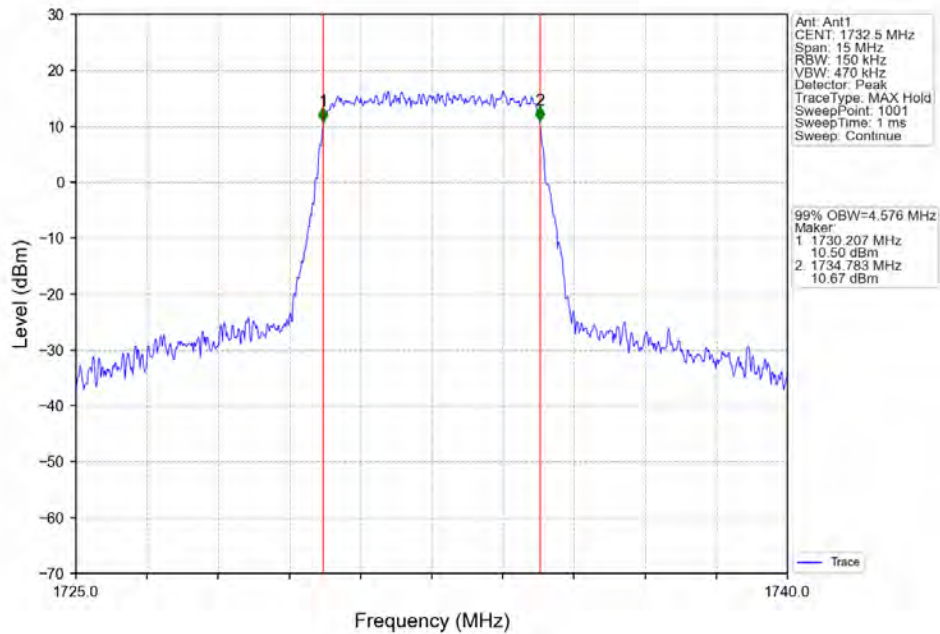
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Band4_5MHz_16QAM_HCH_1752.5MHz_RB_25_0_NTNV



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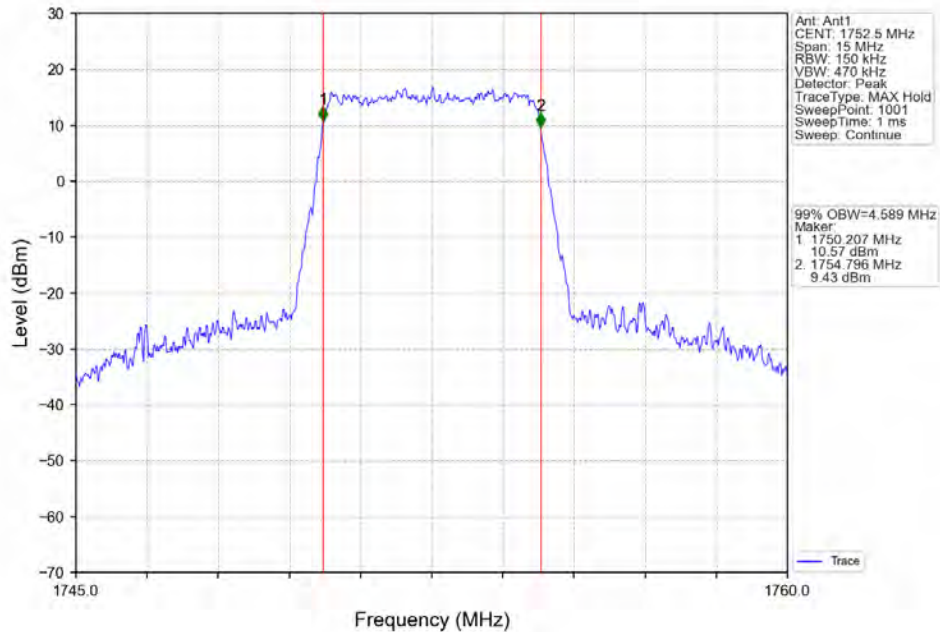
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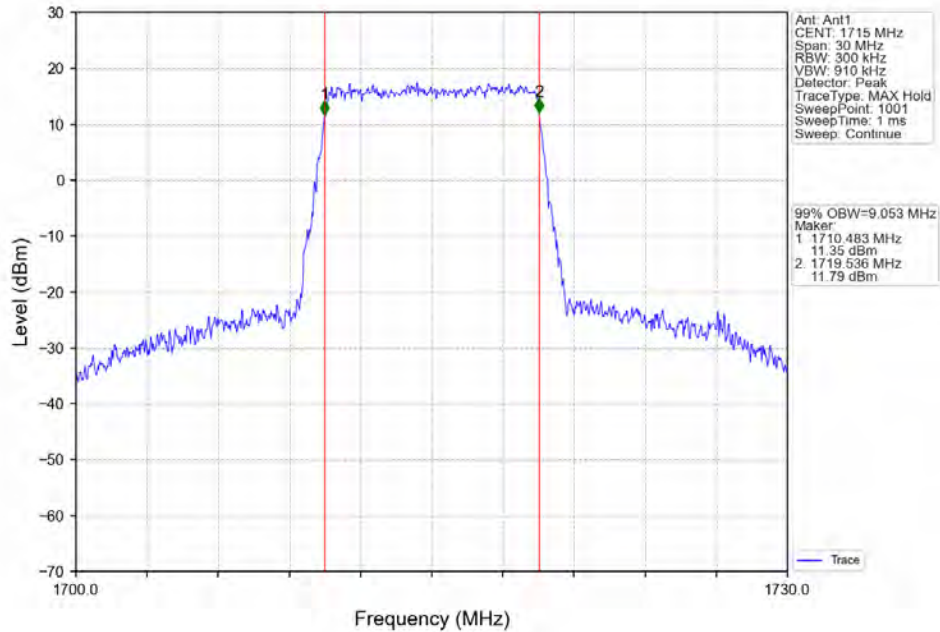
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Band4_10MHz_QPSK_MCH_1732.5MHz_RB_50_0_NTNV



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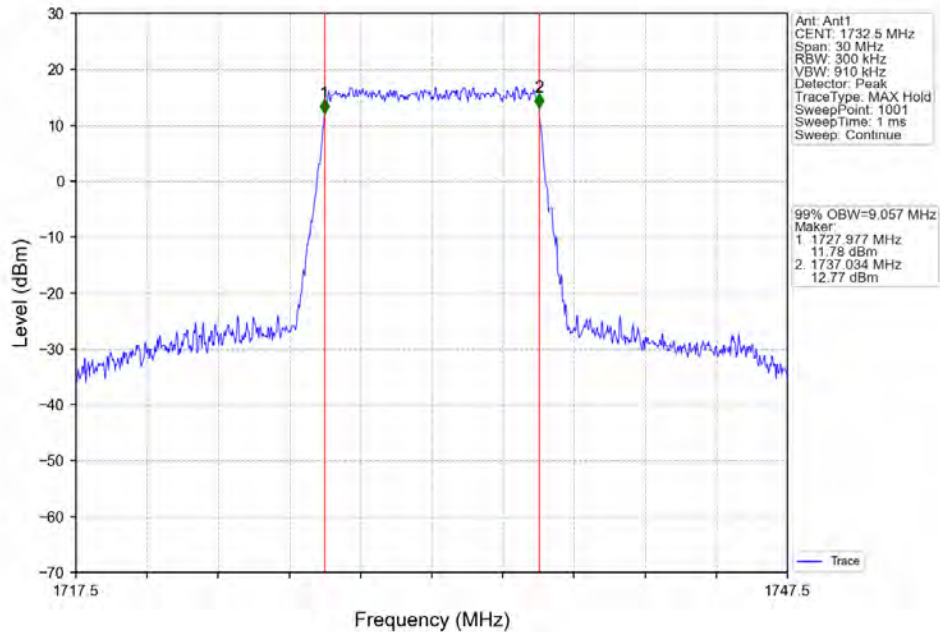
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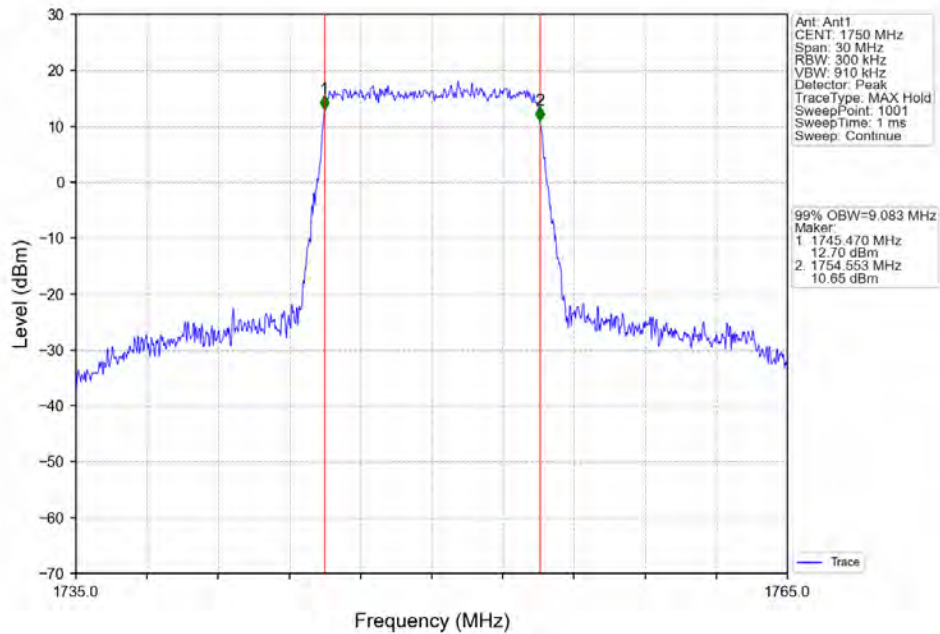
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Band4_10MHz_16QAM_LCH_1715MHz_RB_50_0_NTNV



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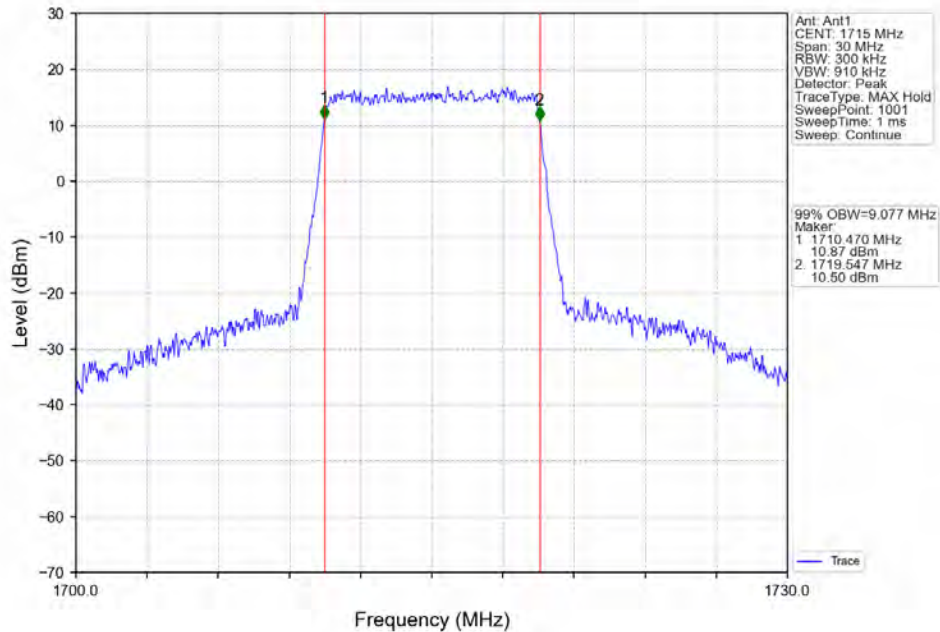
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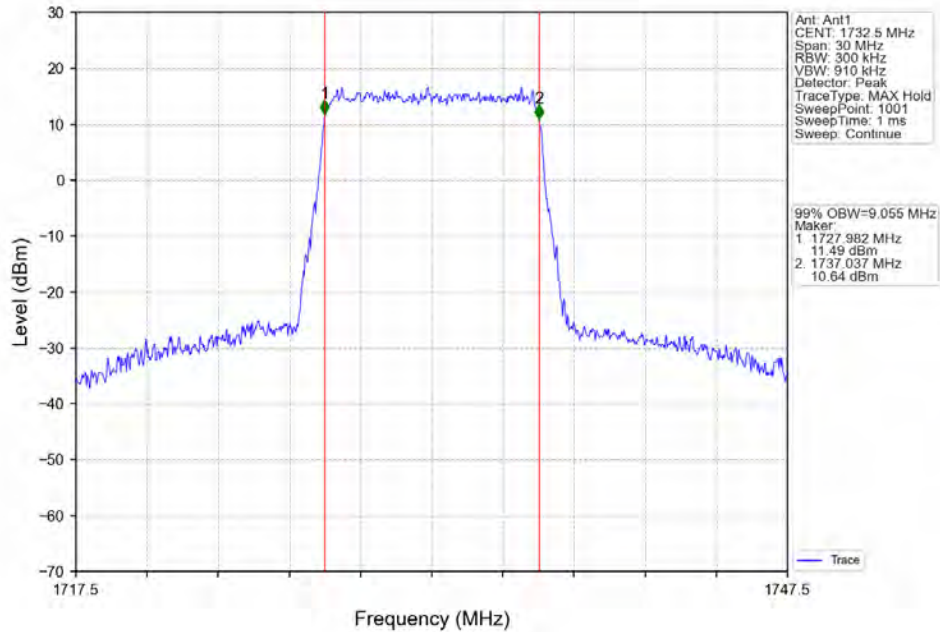
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Band4_10MHz_16QAM_HCH_1750MHz_RB_50_0_NTNV



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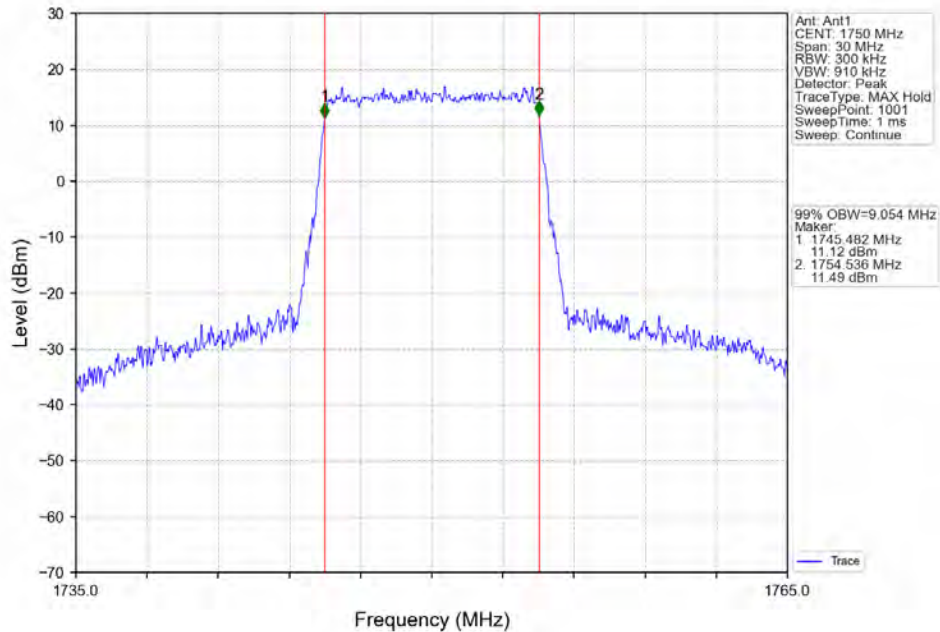
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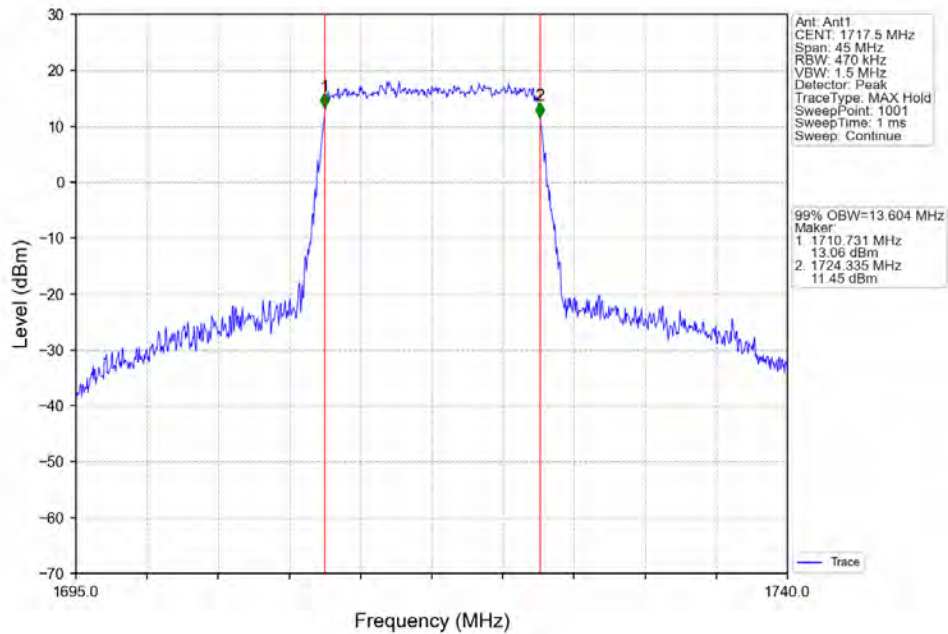
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Band4_15MHz_QPSK_MCH_1732.5MHz_RB_75_0_NTNV



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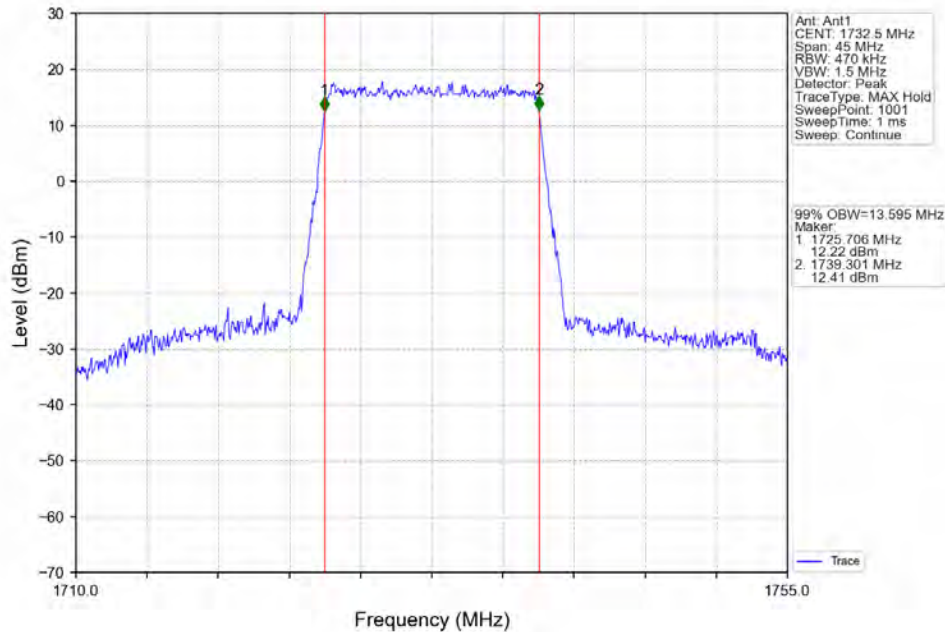
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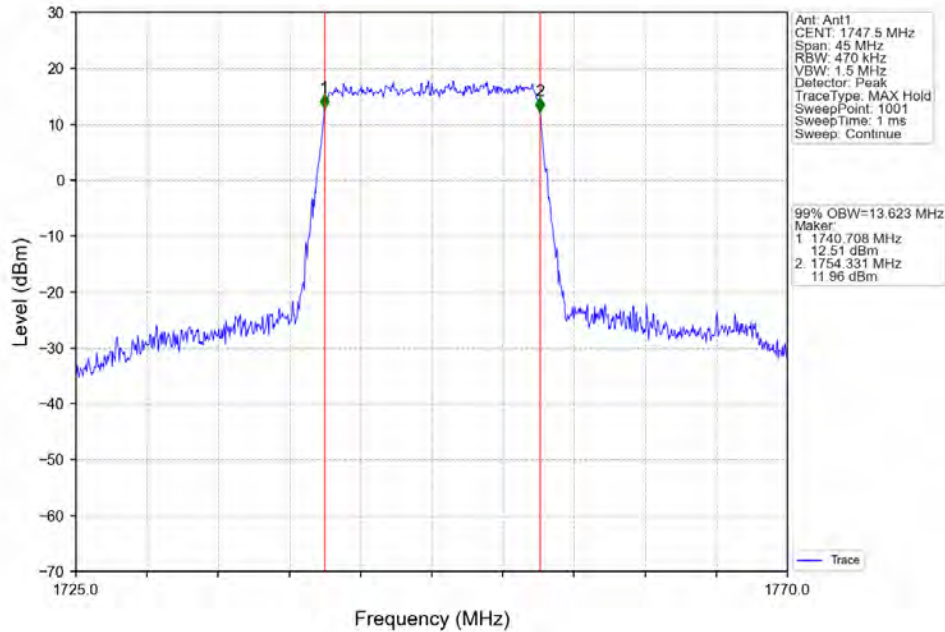
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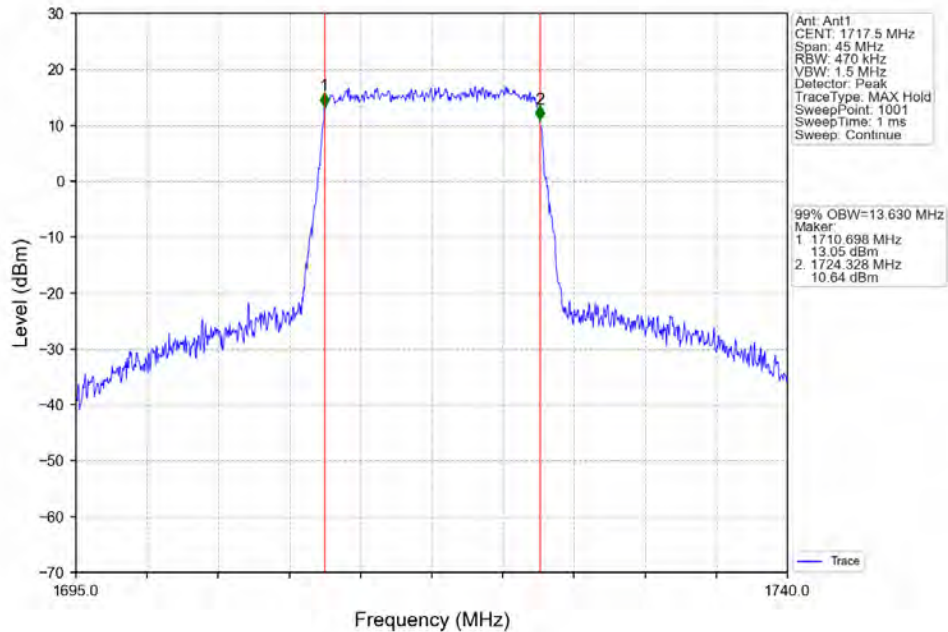
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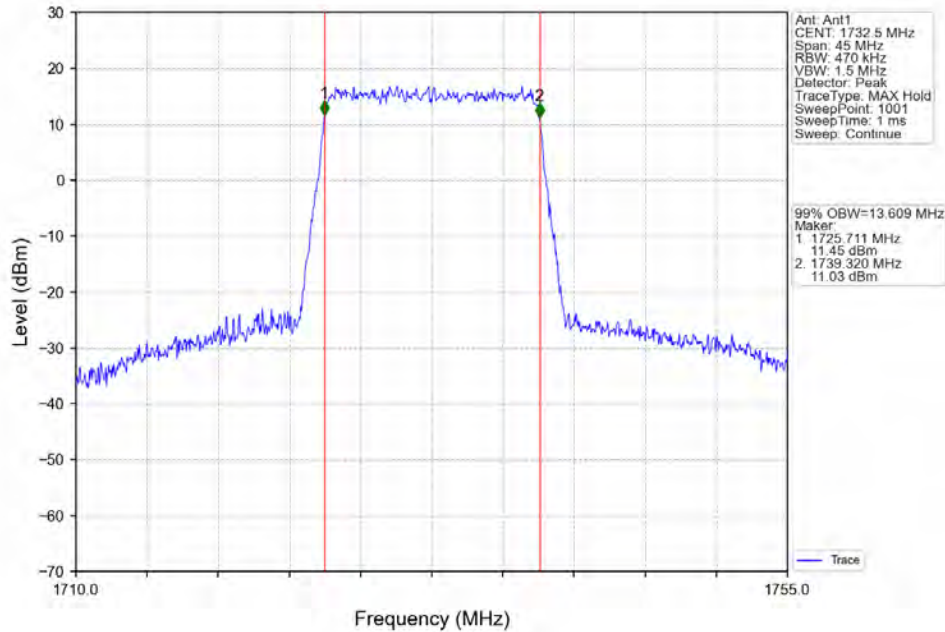
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Band4_15MHz_16QAM_MCH_1732.5MHz_RB_75_0_NTNV



Band4_15MHz_16QAM_HCH_1747.5MHz_RB_75_0_NTNV



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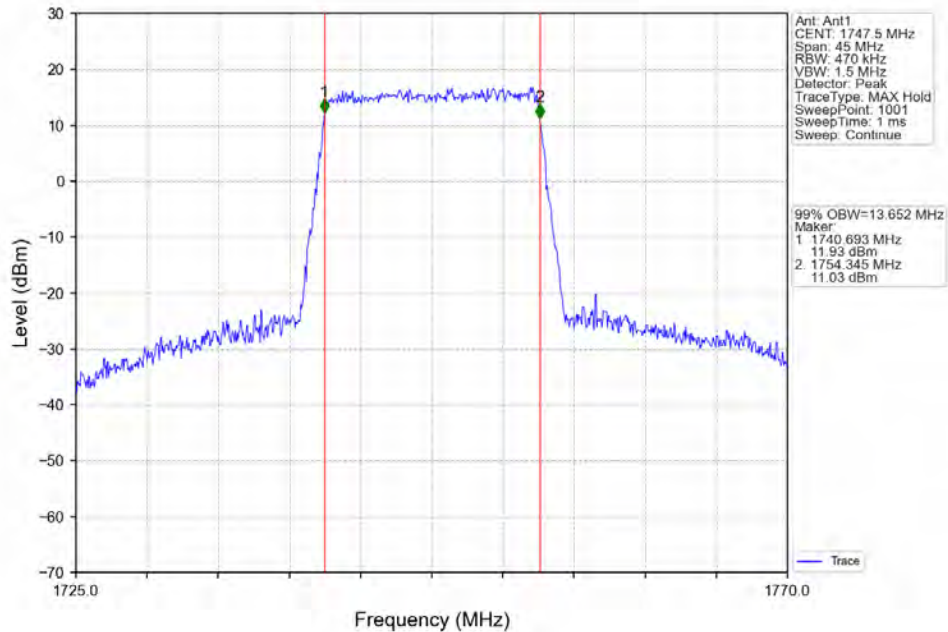
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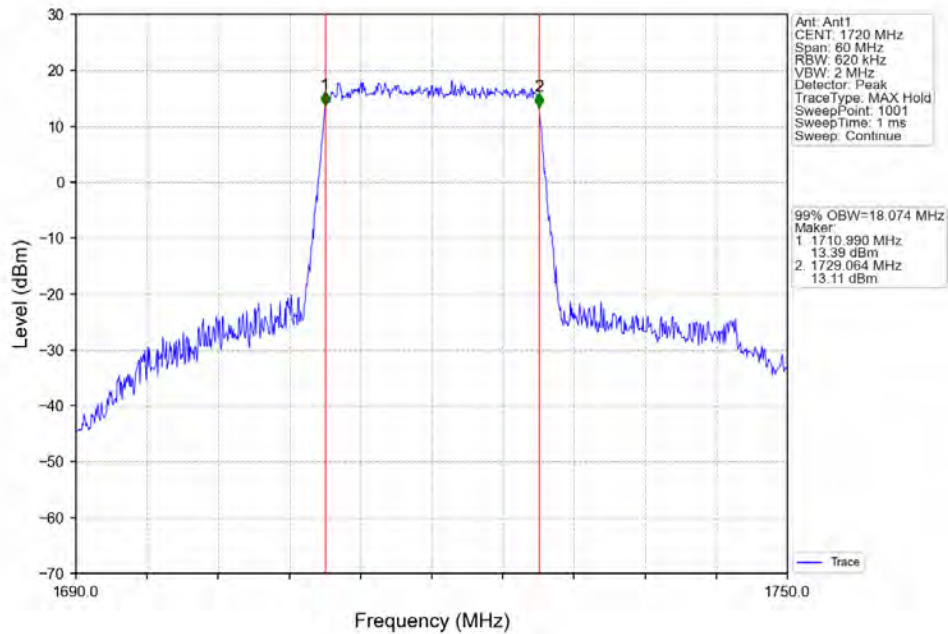
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Band4_20MHz_QPSK_LCH_1720MHz_RB_100_0_NTNV



Band4_20MHz_QPSK_MCH_1732.5MHz_RB_100_0_NTNV



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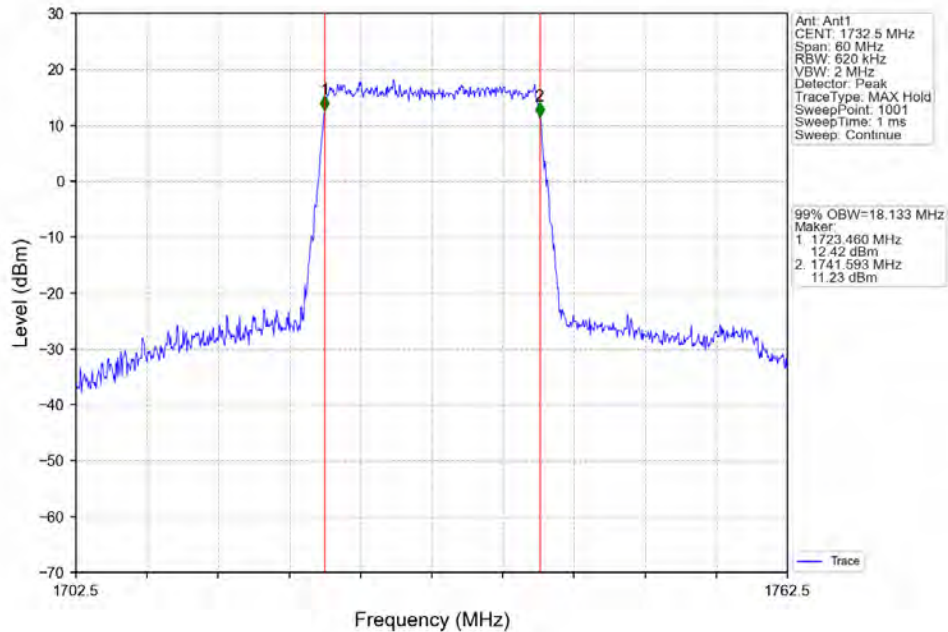
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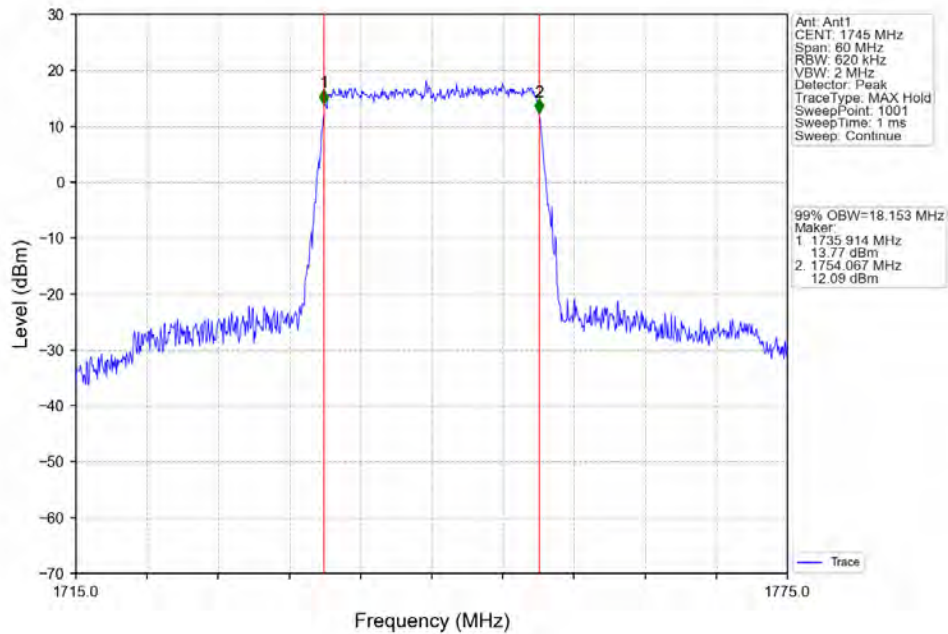
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Band4_20MHz_QPSK_HCH_1745MHz_RB_100_0_NTNV



Band4_20MHz_16QAM_LCH_1720MHz_RB_100_0_NTNV



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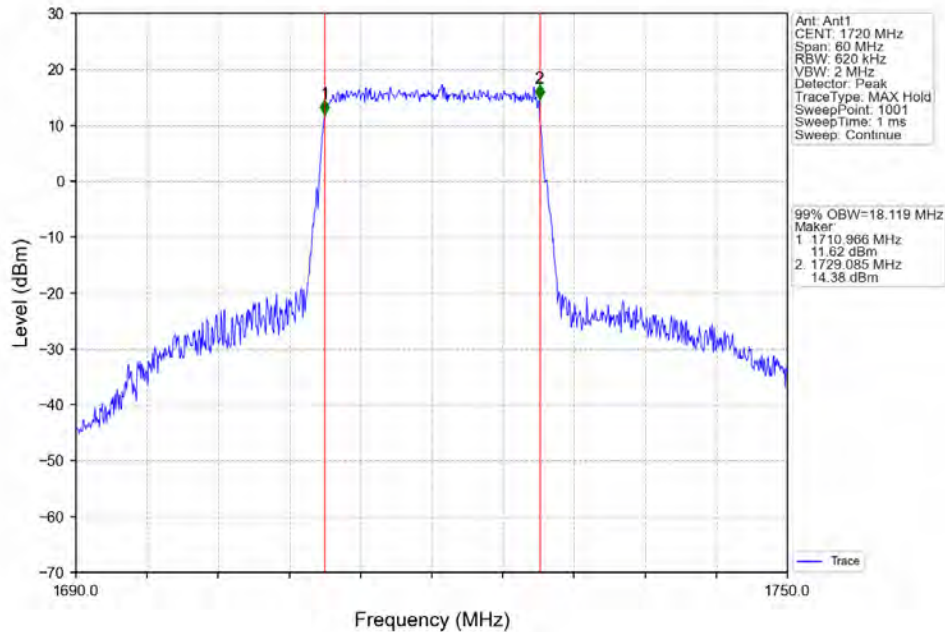
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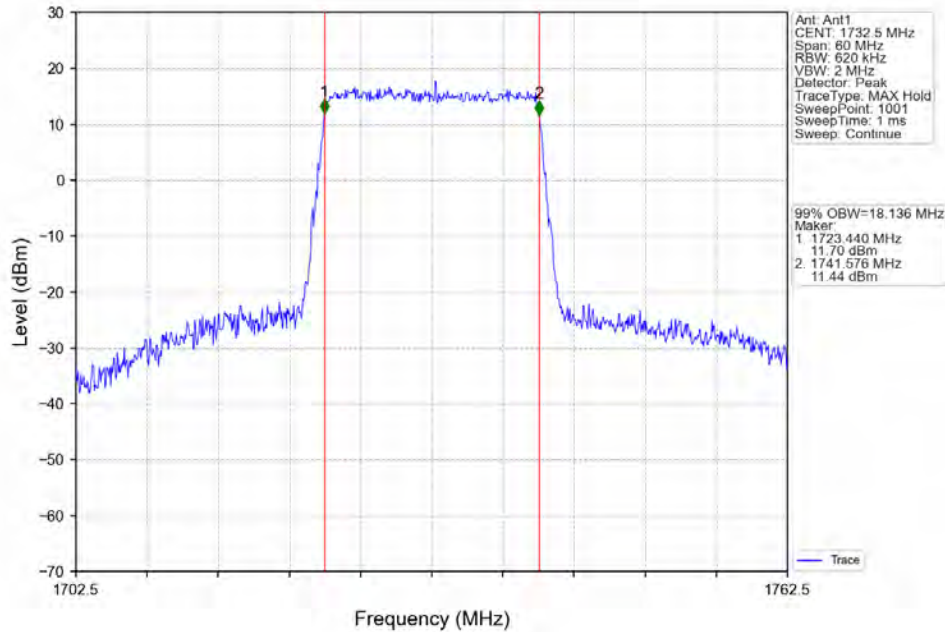
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Band4_20MHz_16QAM_MCH_1732.5MHz_RB_100_0_NTNV



Band4_20MHz_16QAM_HCH_1745MHz_RB_100_0_NTNV



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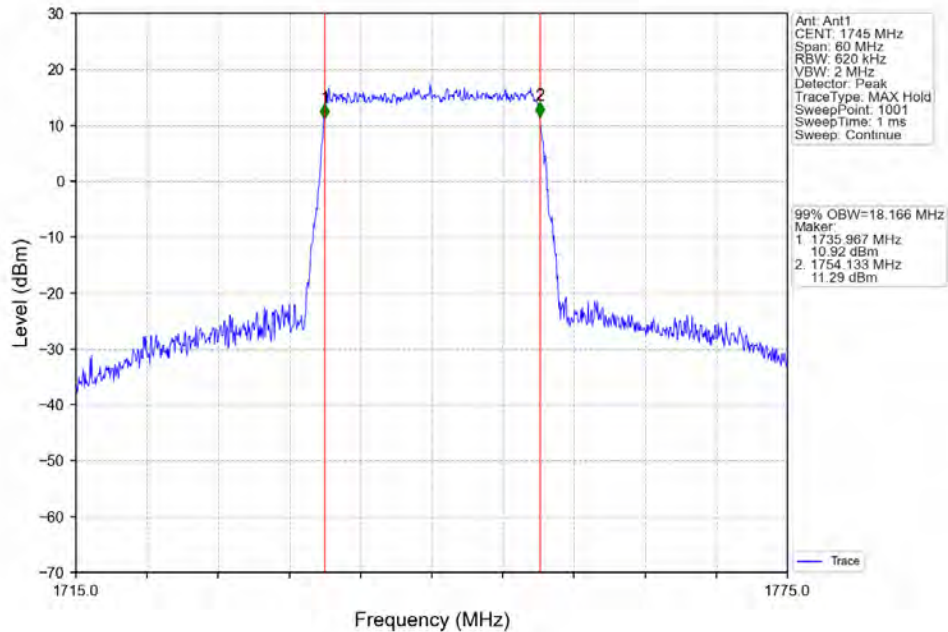
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3.2 Band4_XDB

3.2.1 Test Result

Band: 4 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	1710.7	6	0	1.331	/	Pass
		1732.5	6	0	1.332	/	Pass
		1754.3	6	0	1.317	/	Pass
	16QAM	1710.7	6	0	1.307	/	Pass
		1732.5	6	0	1.319	/	Pass
		1754.3	6	0	1.347	/	Pass
3	QPSK	1711.5	15	0	3.001	/	Pass
		1732.5	15	0	3.003	/	Pass
		1753.5	15	0	3.001	/	Pass
	16QAM	1711.5	15	0	3.022	/	Pass
		1732.5	15	0	2.988	/	Pass
		1753.5	15	0	2.992	/	Pass
5	QPSK	1712.5	25	0	5.226	/	Pass
		1732.5	25	0	5.272	/	Pass
		1752.5	25	0	5.242	/	Pass
	16QAM	1712.5	25	0	5.247	/	Pass
		1732.5	25	0	5.269	/	Pass
		1752.5	25	0	5.309	/	Pass
10	QPSK	1715	50	0	10.284	/	Pass
		1732.5	50	0	10.247	/	Pass
		1750	50	0	10.252	/	Pass
	16QAM	1715	50	0	10.270	/	Pass
		1732.5	50	0	10.154	/	Pass
		1750	50	0	10.196	/	Pass
15	QPSK	1717.5	75	0	15.395	/	Pass
		1732.5	75	0	15.289	/	Pass
		1747.5	75	0	15.320	/	Pass
	16QAM	1717.5	75	0	15.336	/	Pass
		1732.5	75	0	15.297	/	Pass
		1747.5	75	0	15.399	/	Pass
20	QPSK	1720	100	0	19.935	/	Pass
		1732.5	100	0	20.080	/	Pass
		1745	100	0	20.191	/	Pass
	16QAM	1720	100	0	20.225	/	Pass
		1732.5	100	0	20.220	/	Pass
		1745	100	0	20.192	/	Pass



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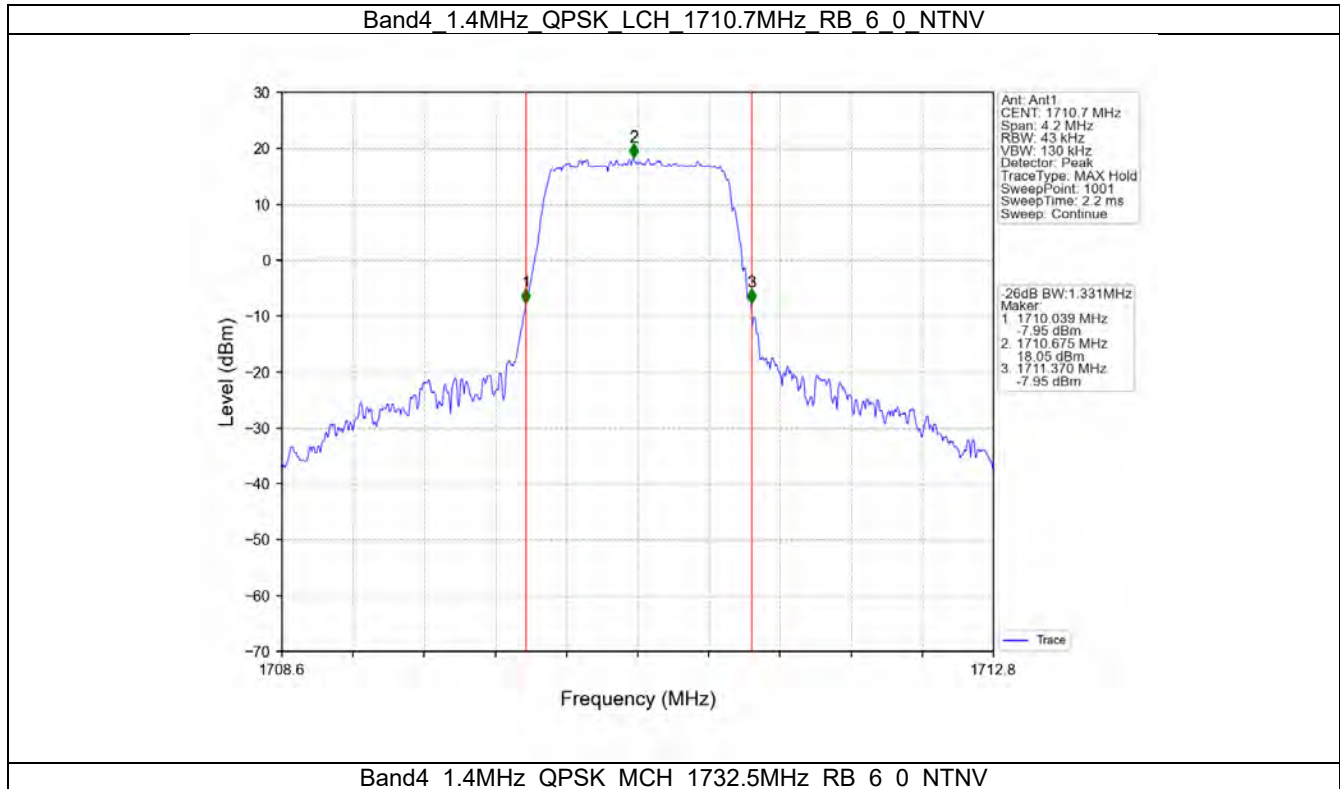
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3.2.2 Test Graph



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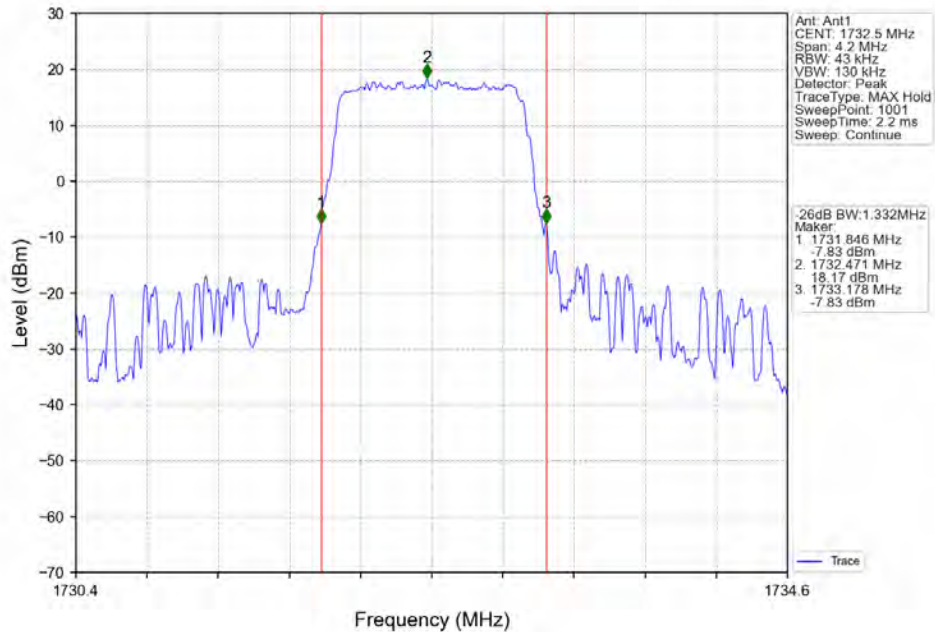
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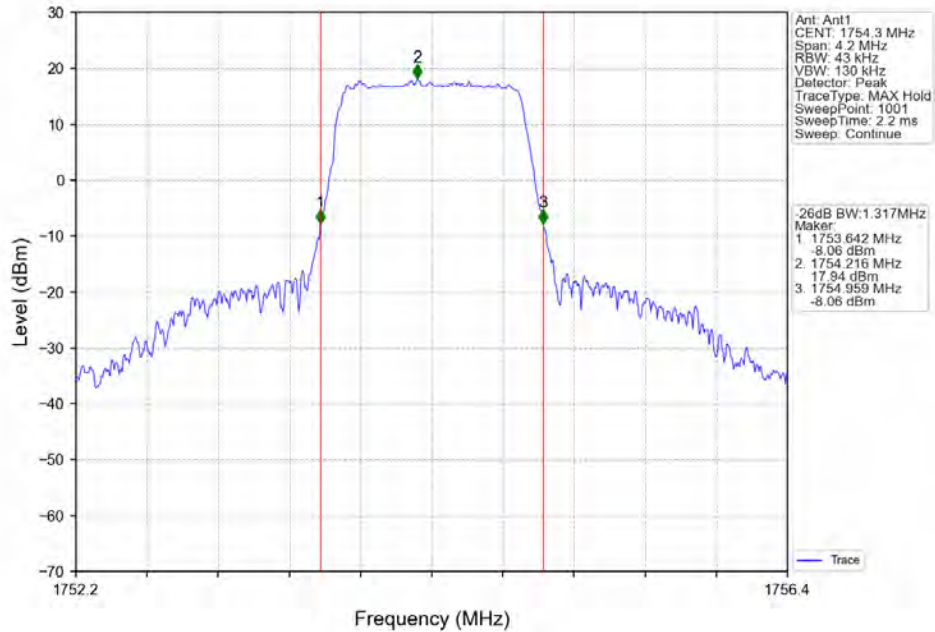
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Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV



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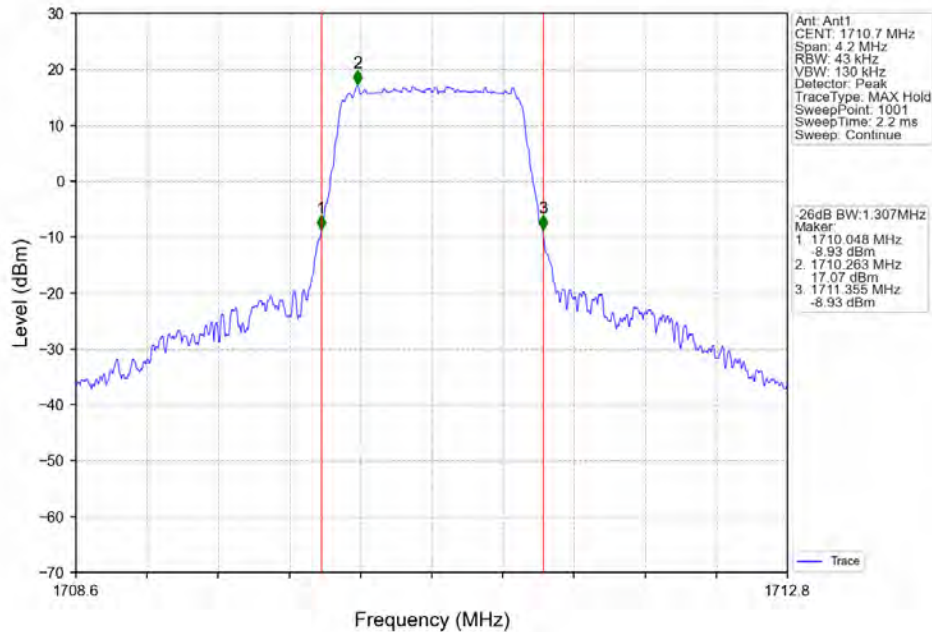
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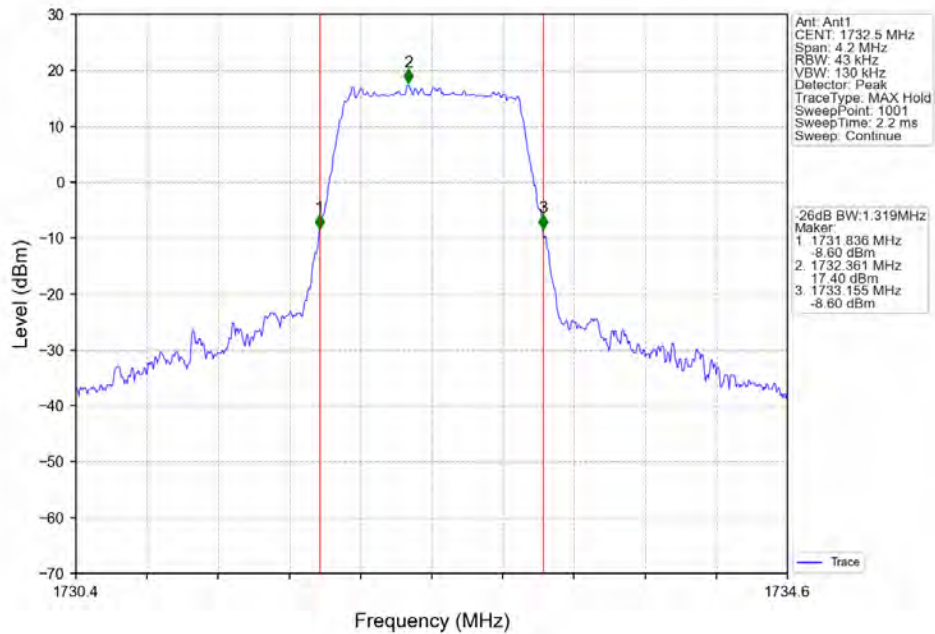
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Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV



Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_6_0_NTNV



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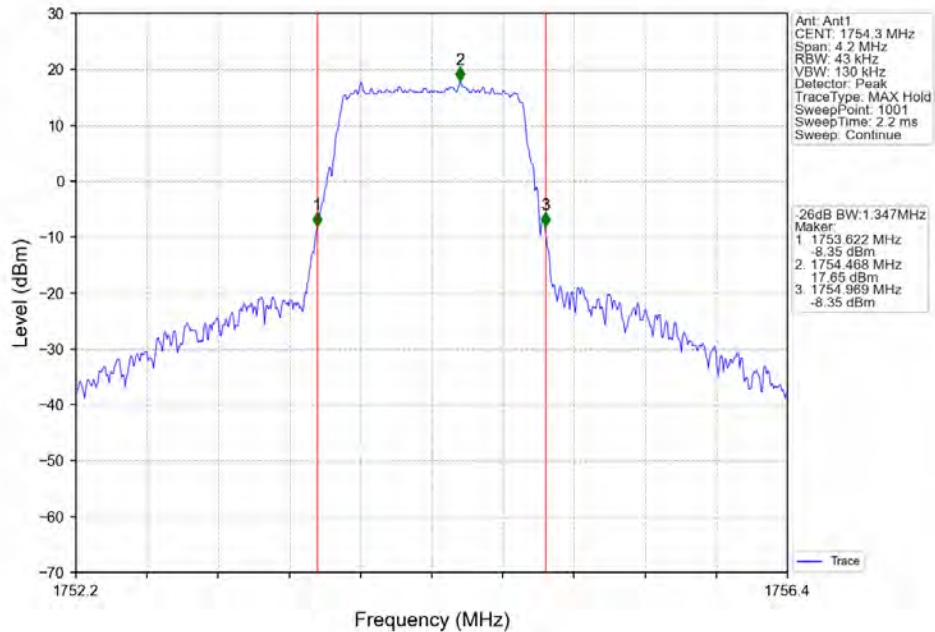
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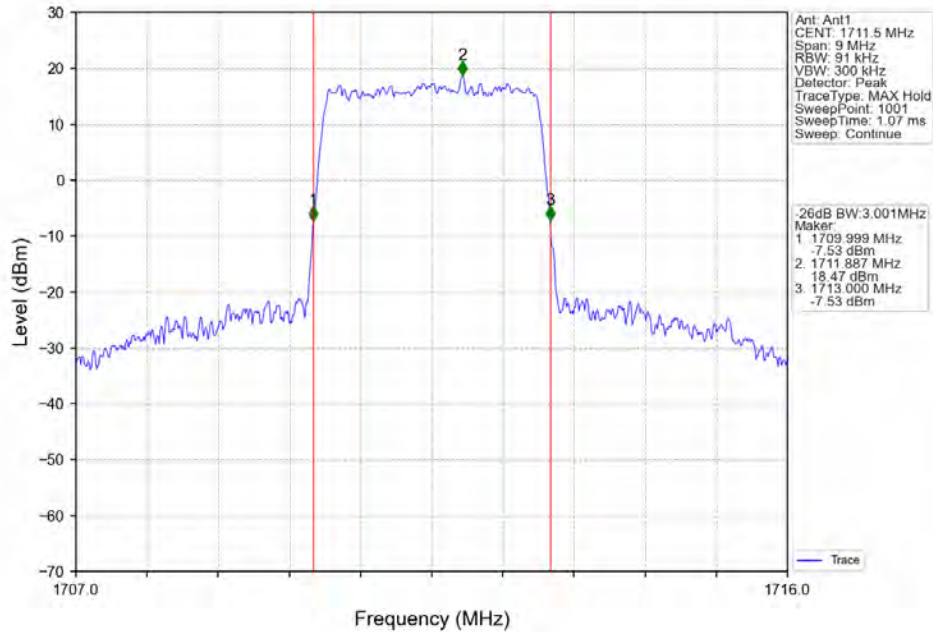
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Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV



Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV



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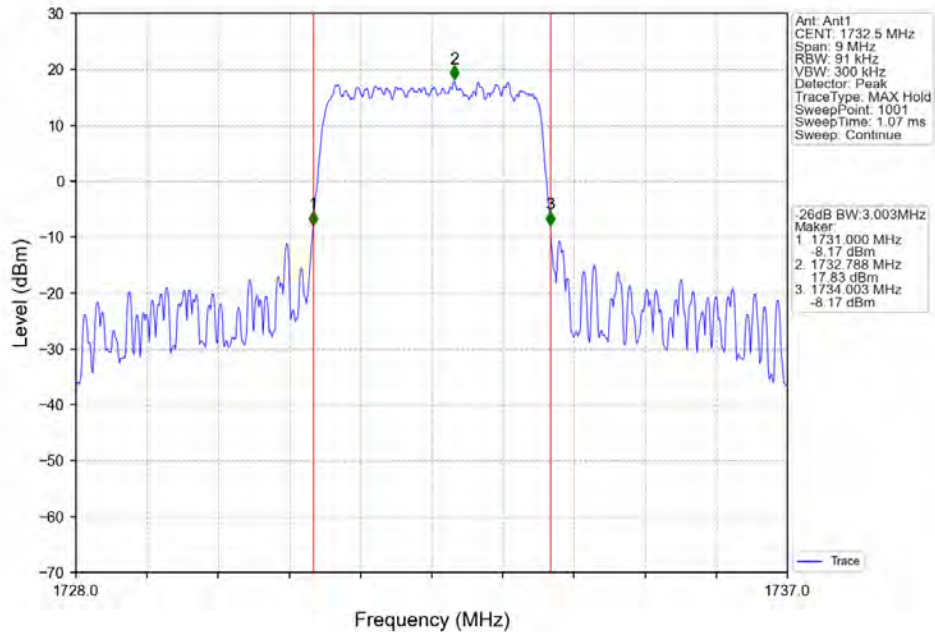
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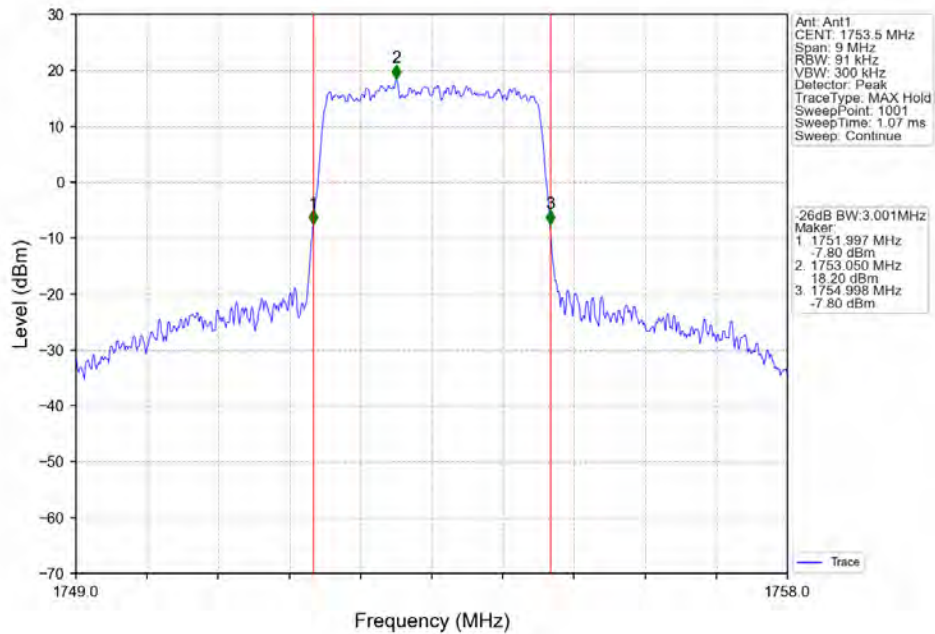
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Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV



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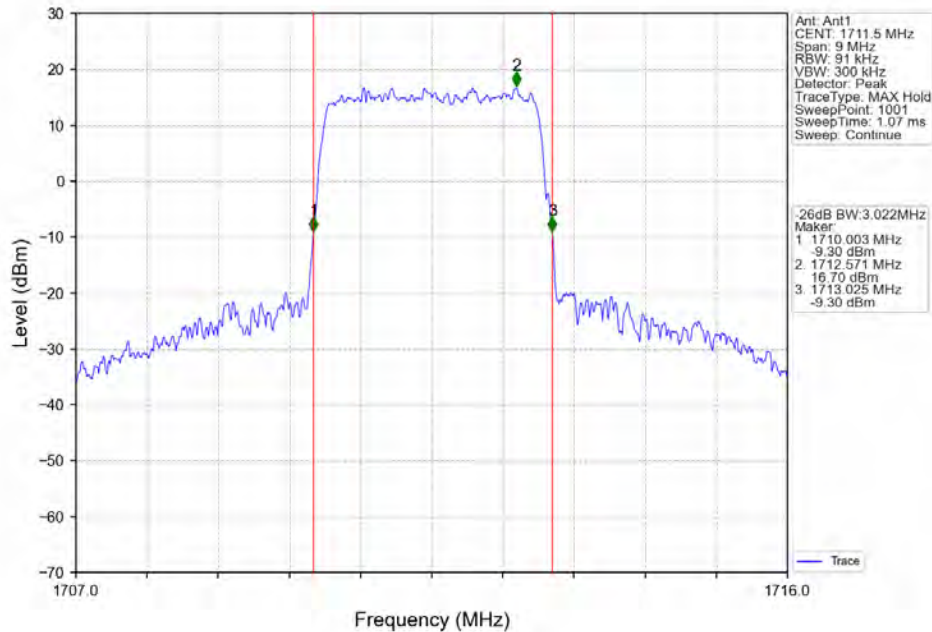
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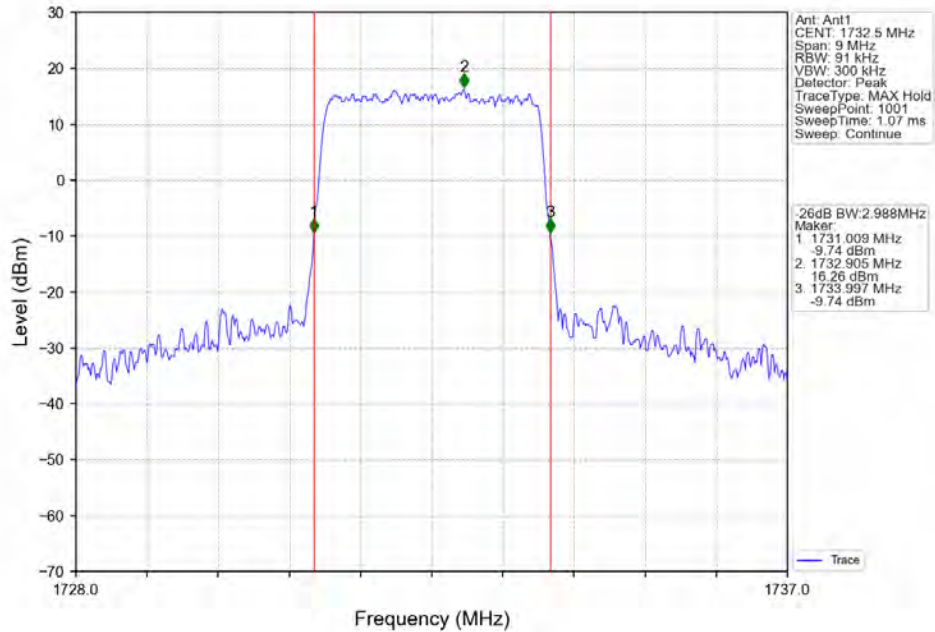
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Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV



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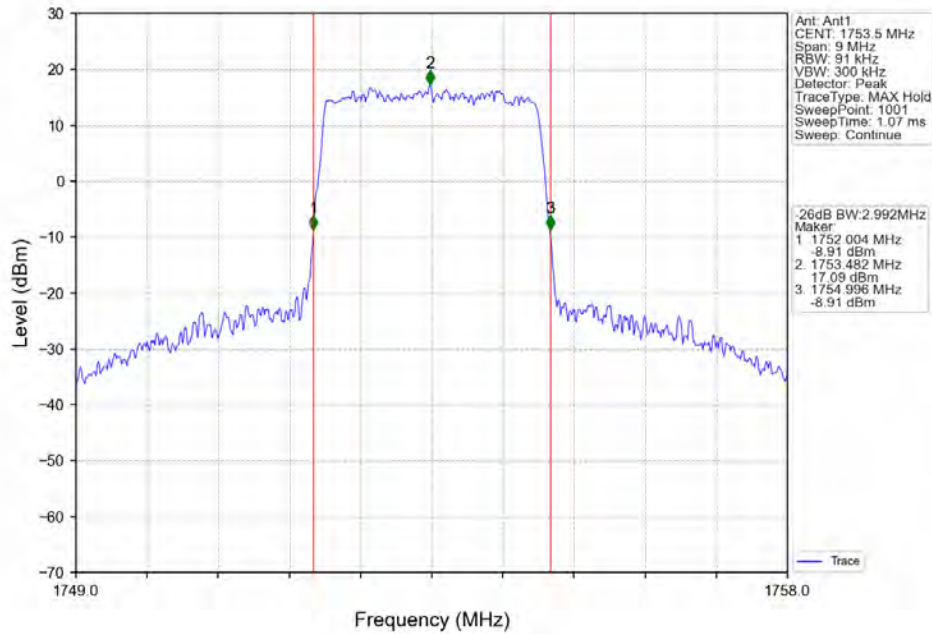
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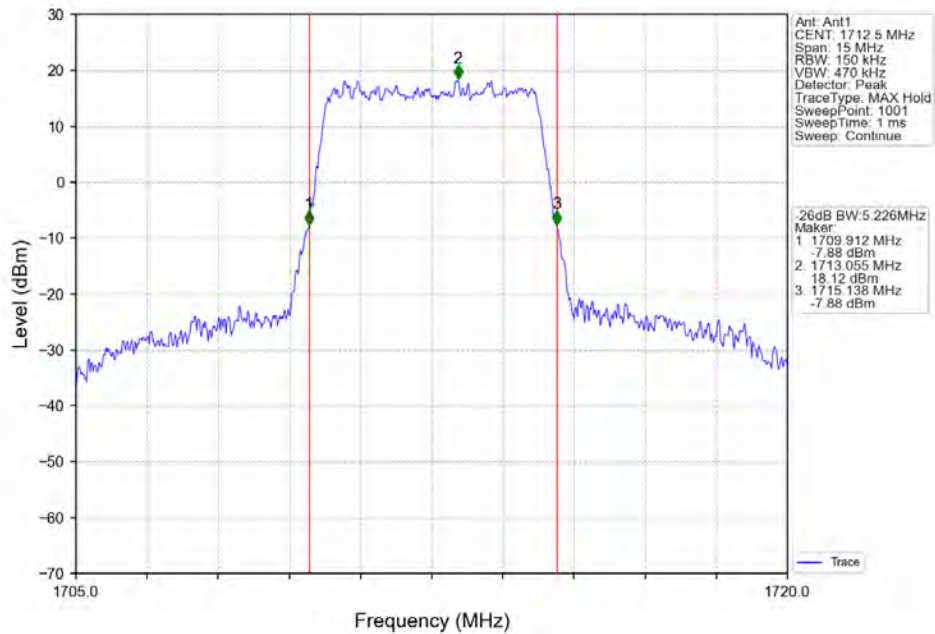
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Band4_5MHz_QPSK_MCH_1732.5MHz_RB_25_0_NTNV



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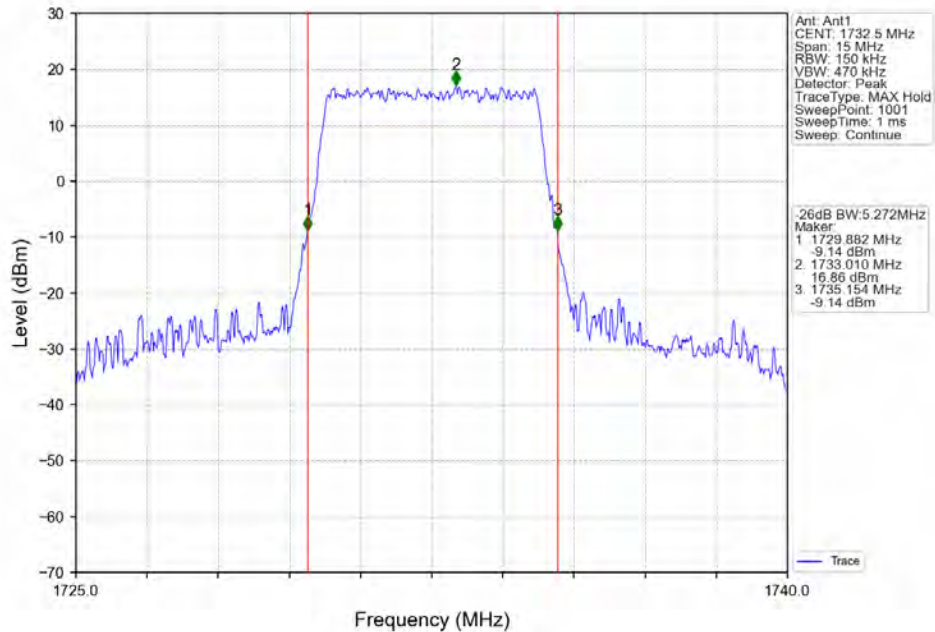
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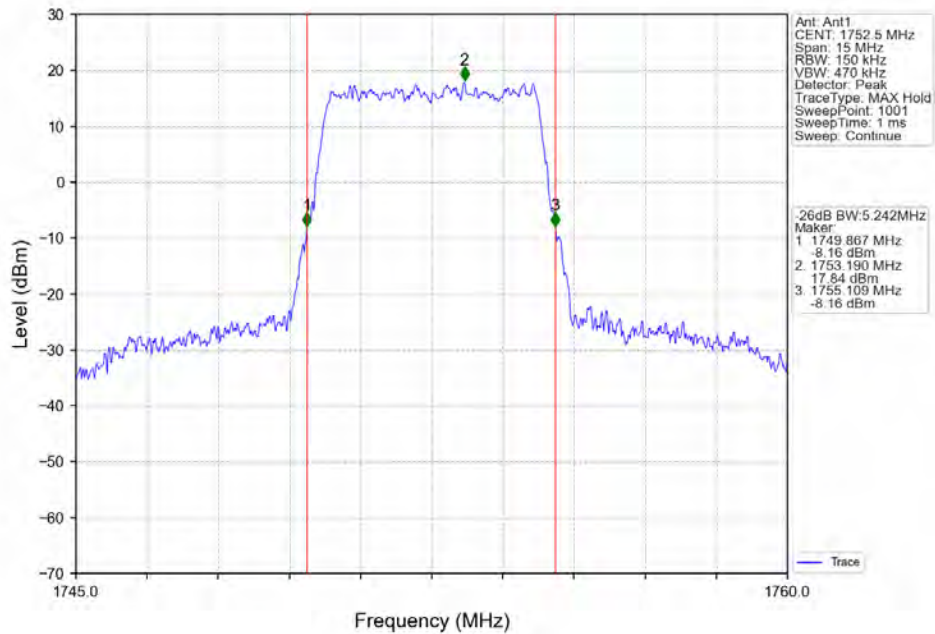
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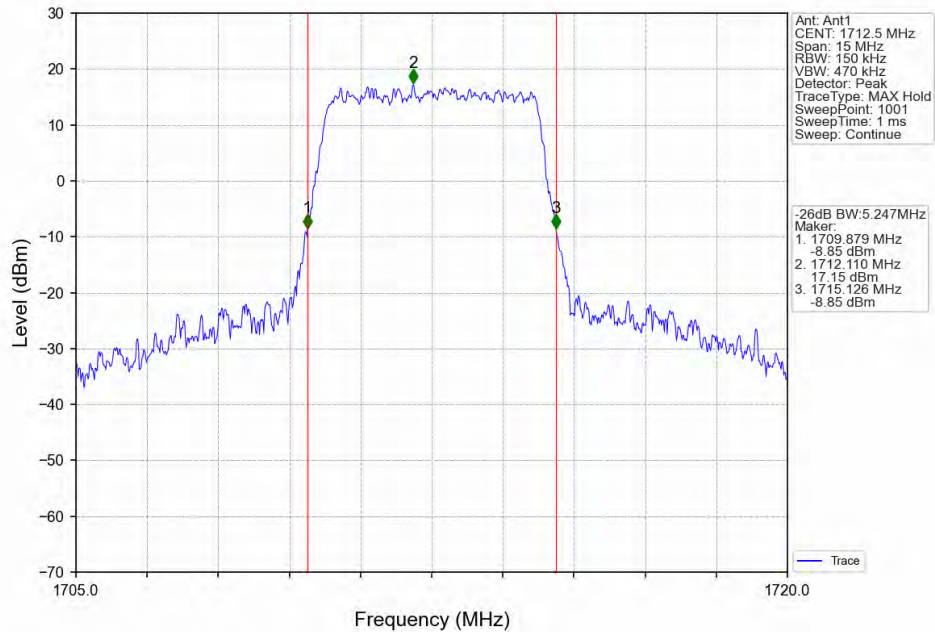
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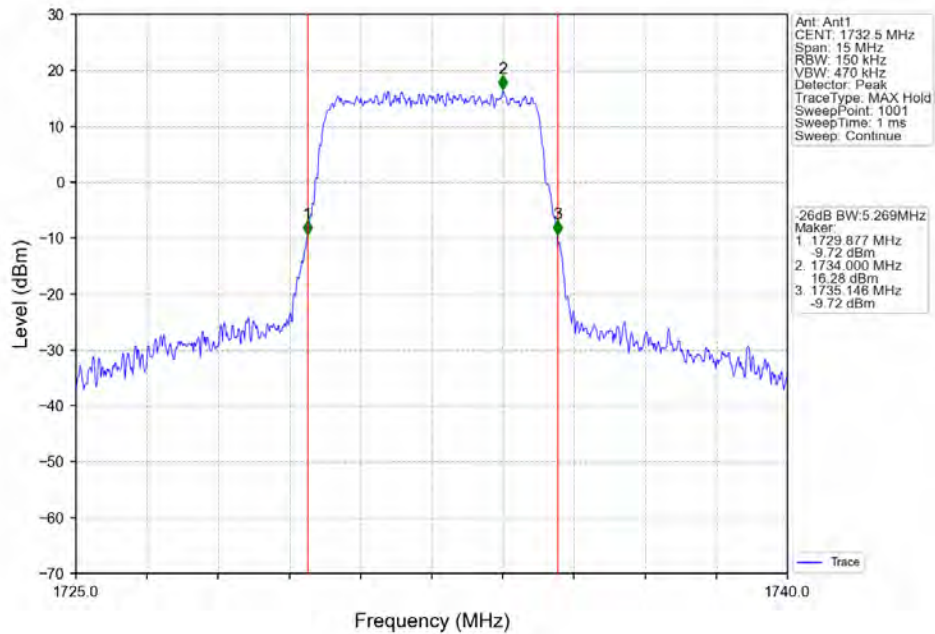
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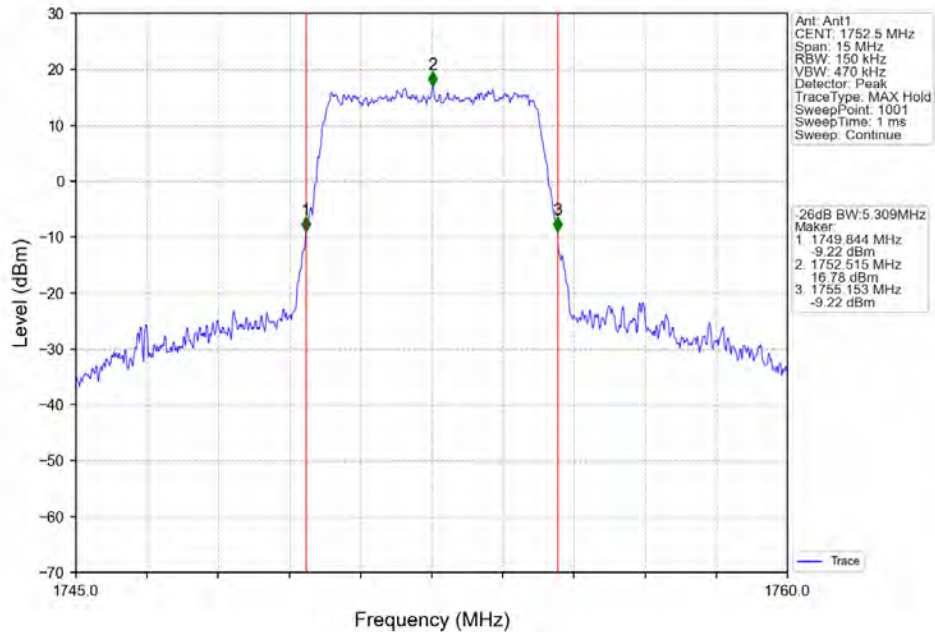
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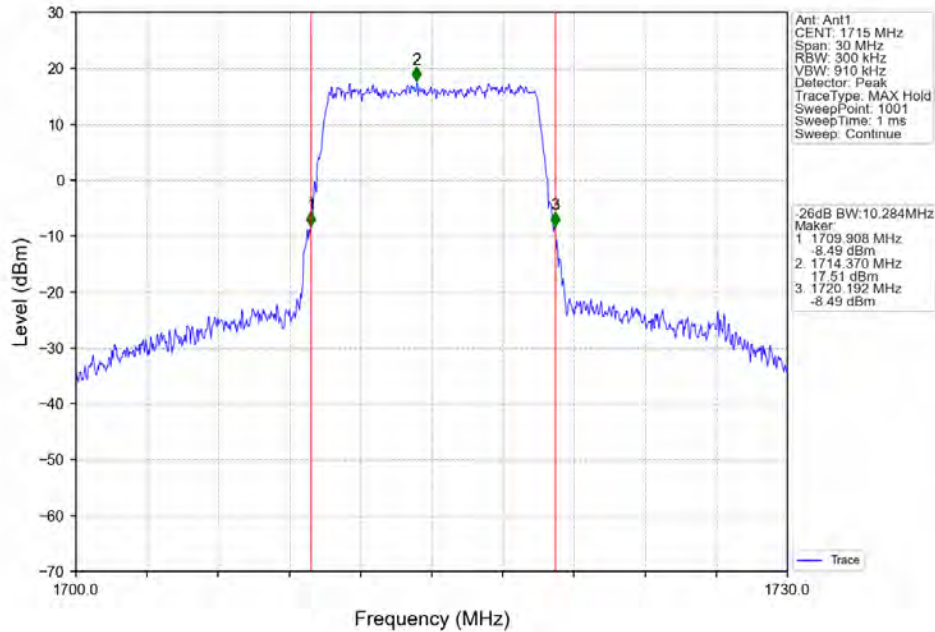
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Band4_10MHz_QPSK_MCH_1732.5MHz_RB_50_0_NTNV



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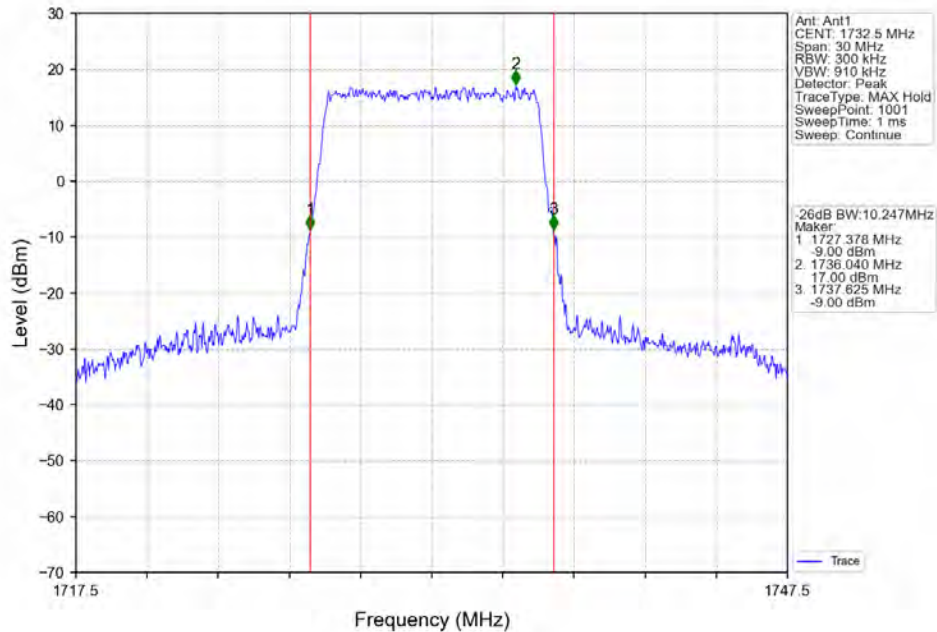
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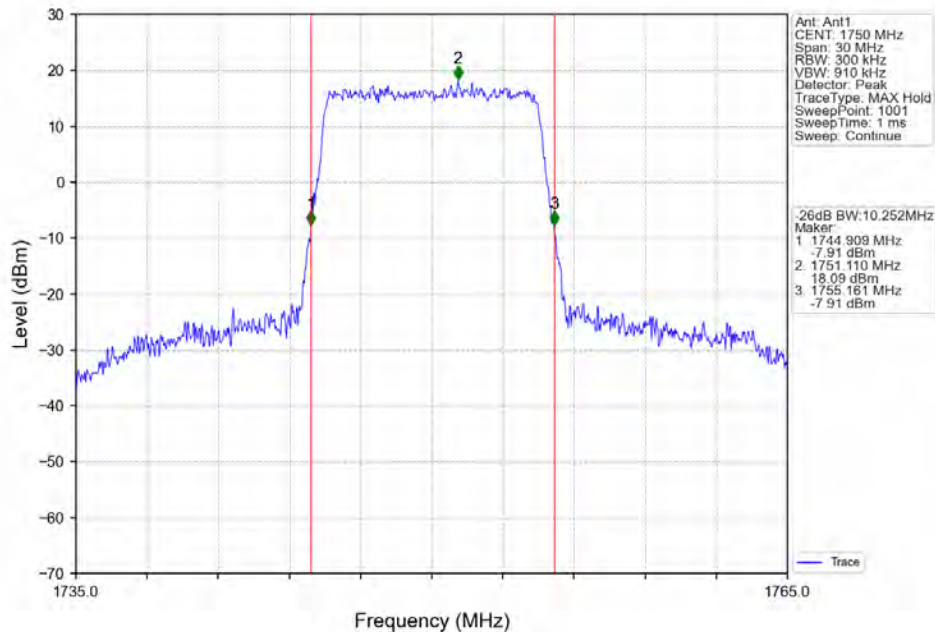
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Band4_10MHz_16QAM_LCH_1715MHz_RB_50_0_NTNV



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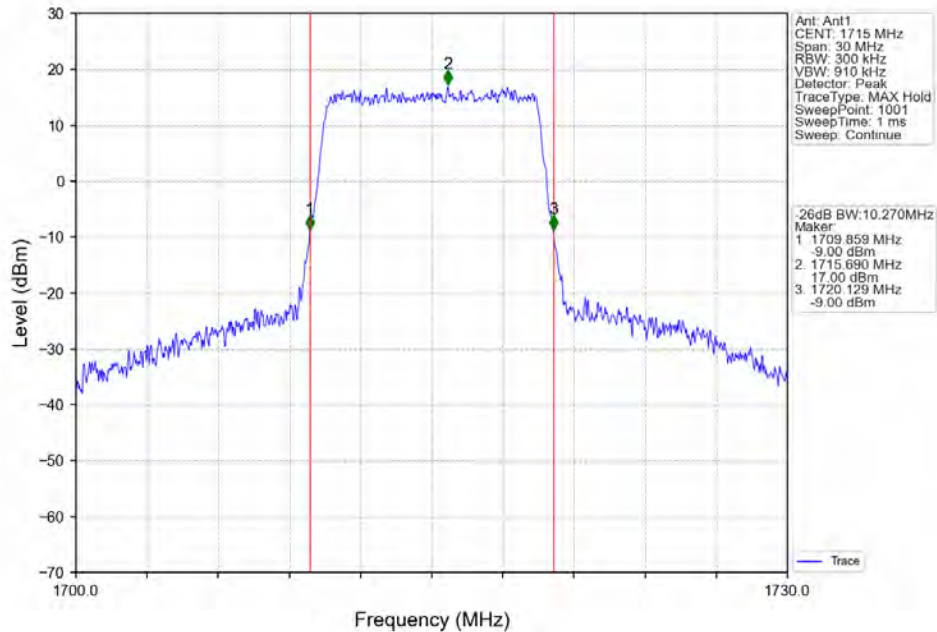
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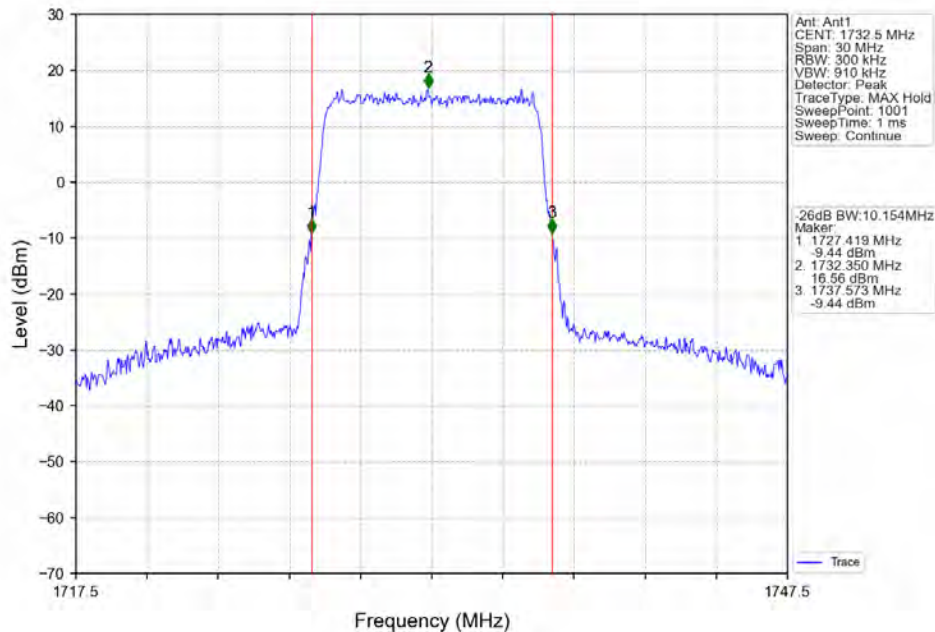
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Band4_10MHz_16QAM_HCH_1750MHz_RB_50_0_NTNV



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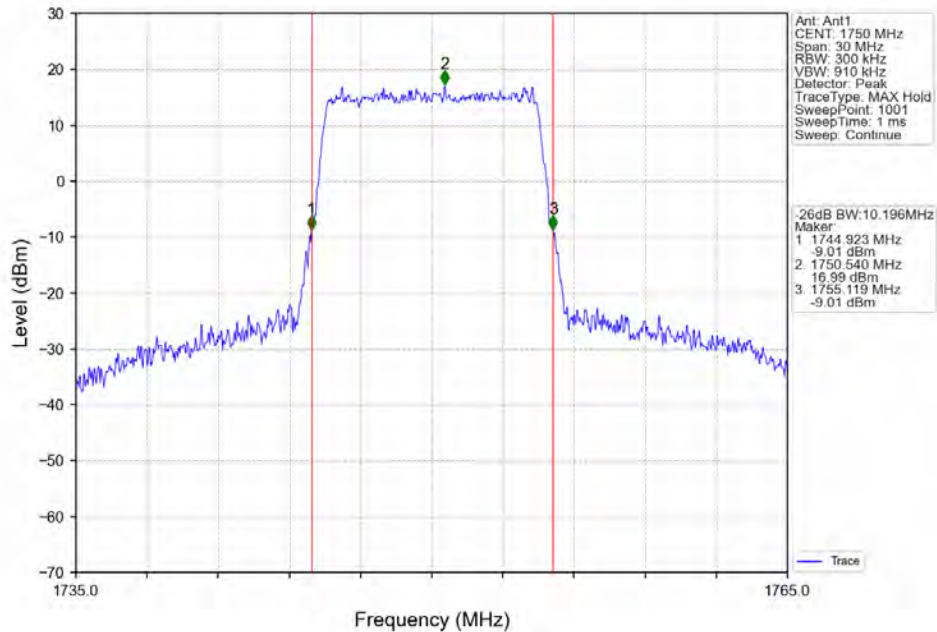
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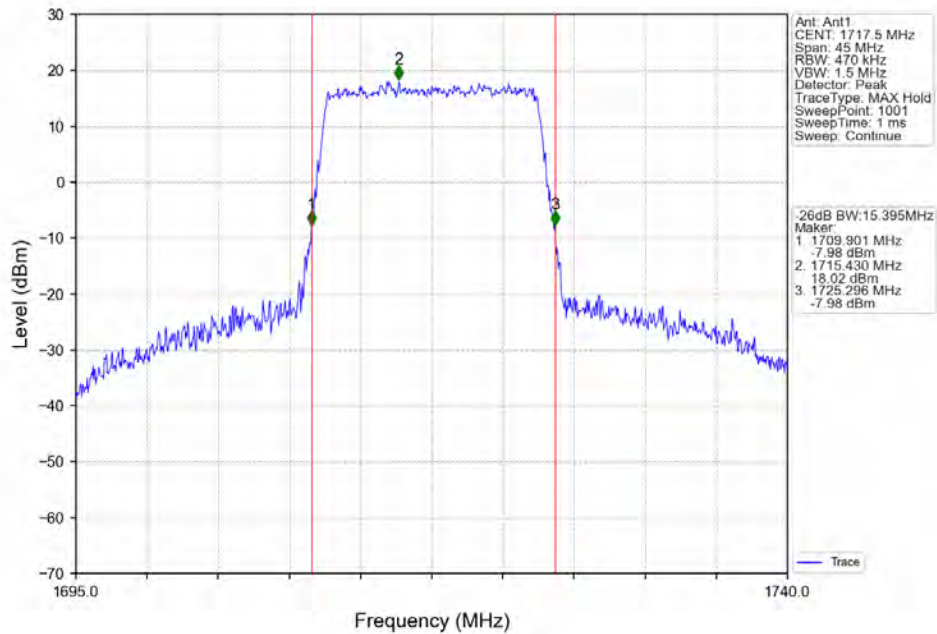
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Band4_15MHz_QPSK_MCH_1732.5MHz_RB_75_0_NTNV



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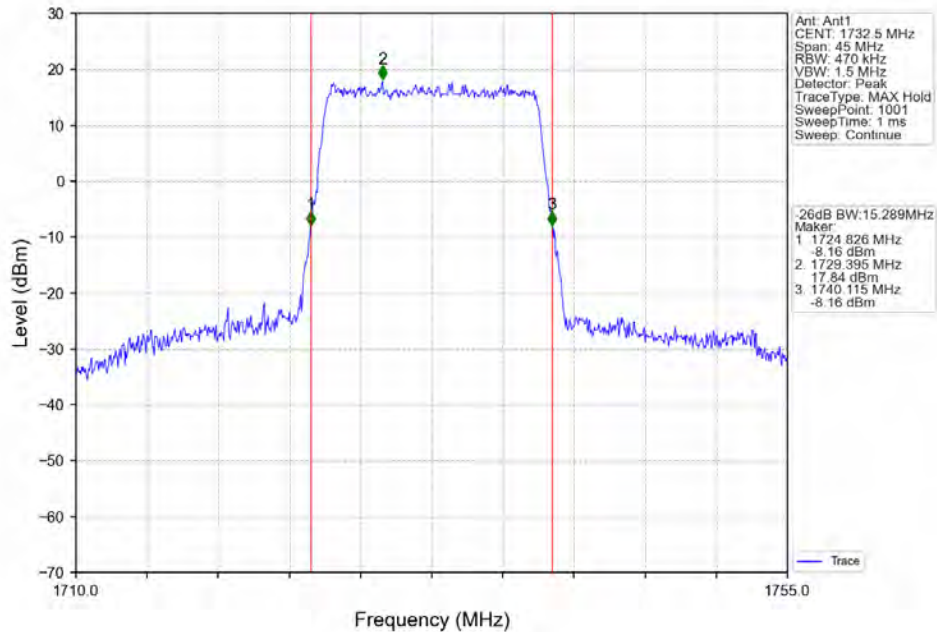
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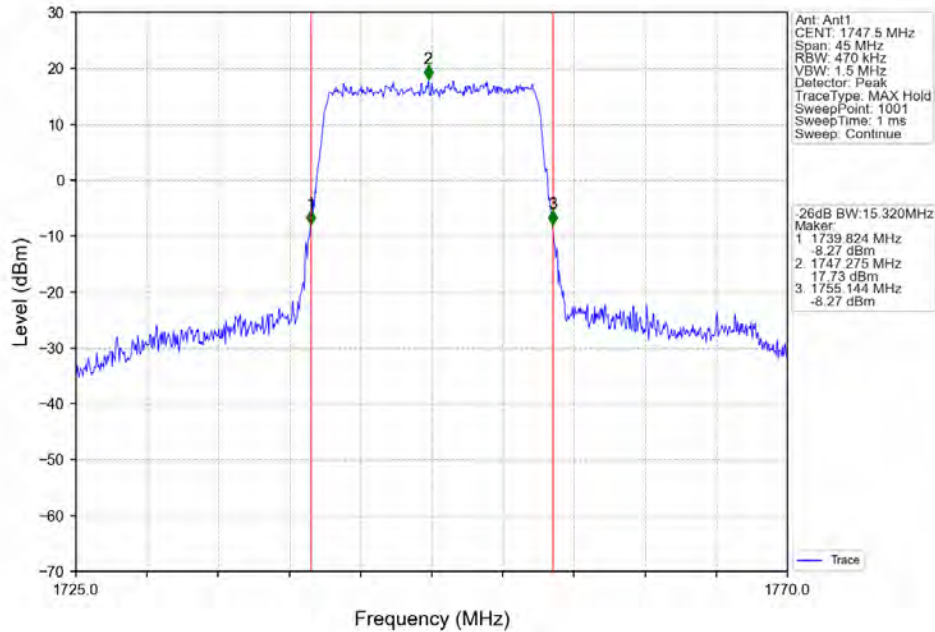
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Band4_15MHz_16QAM_LCH_1717.5MHz_RB_75_0_NTNV



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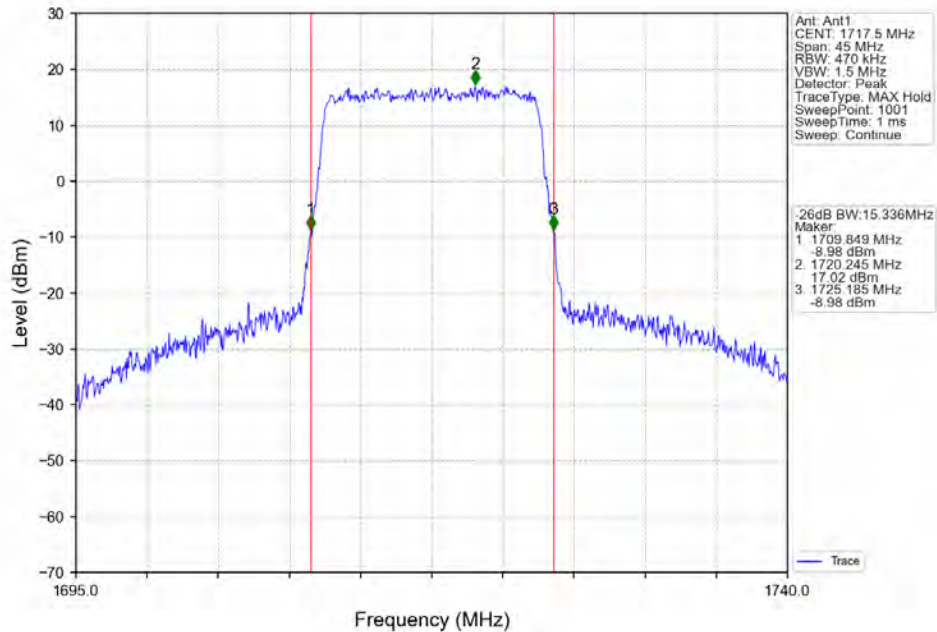
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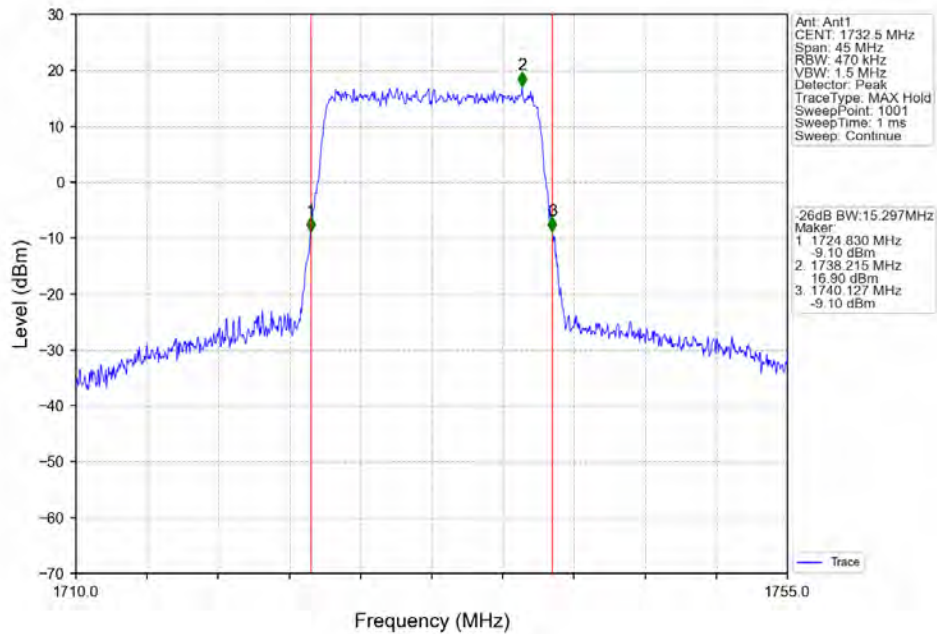
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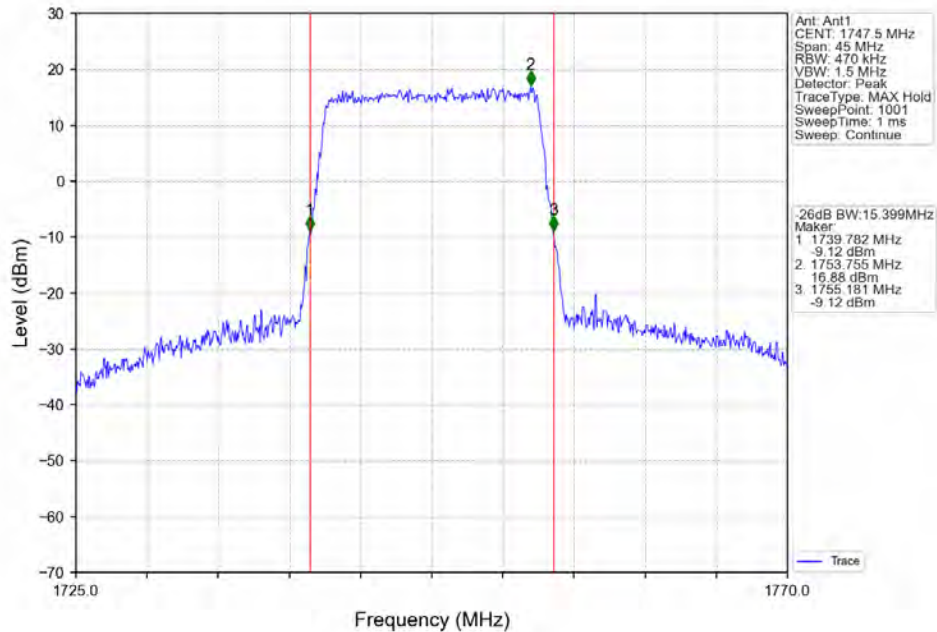
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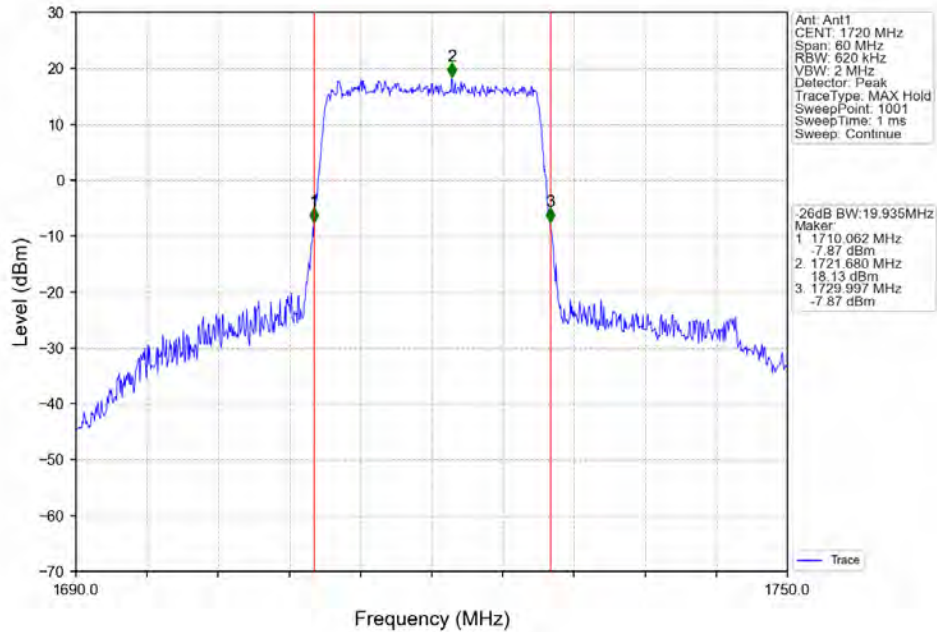
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Band4_20MHz_QPSK_LCH_1720MHz_RB_100_0_NTNV



Band4_20MHz_QPSK_MCH_1732.5MHz_RB_100_0_NTNV



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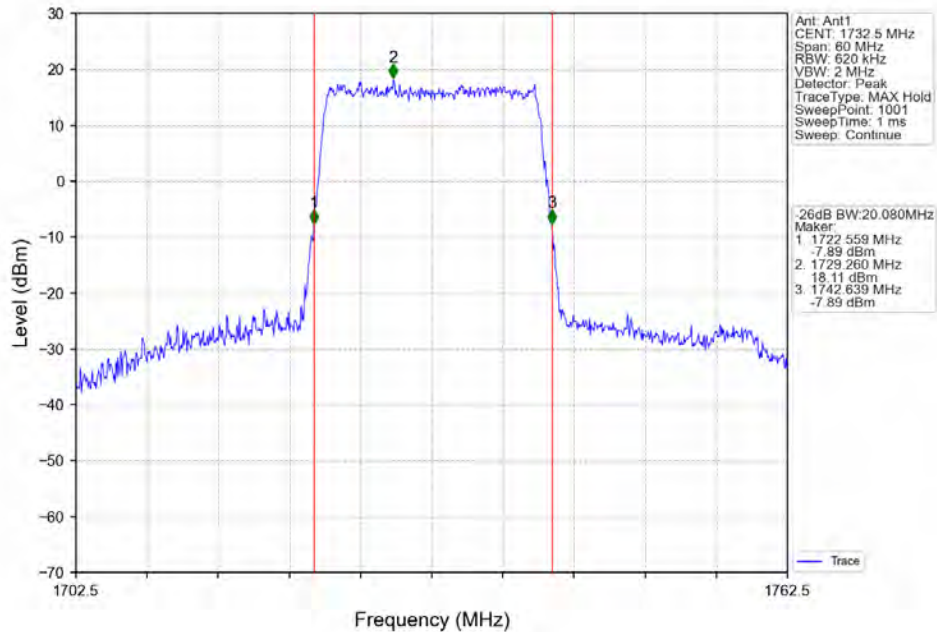
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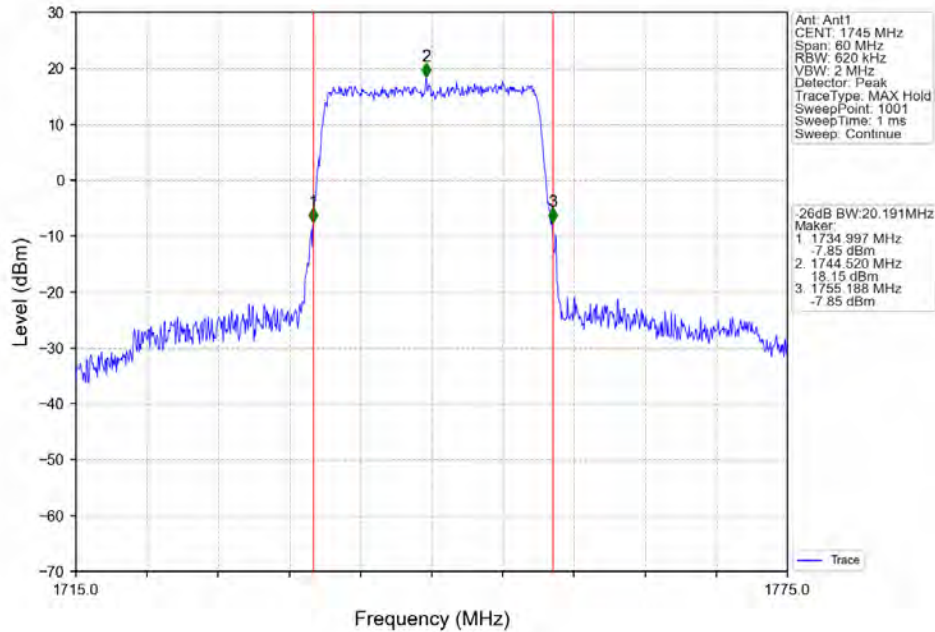
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Band4_20MHz_QPSK_HCH_1745MHz_RB_100_0_NTNV



Band4_20MHz_16QAM_LCH_1720MHz_RB_100_0_NTNV



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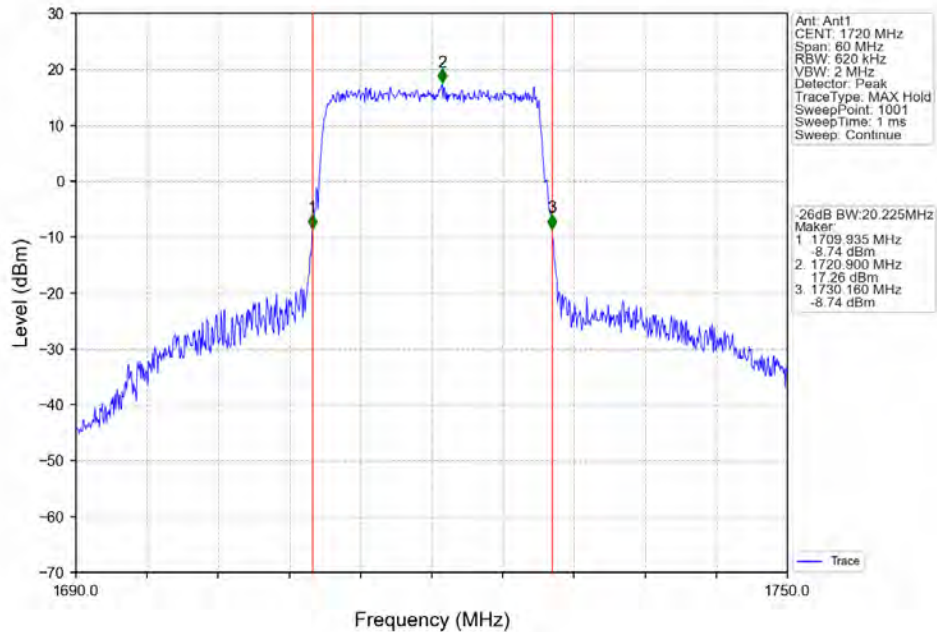
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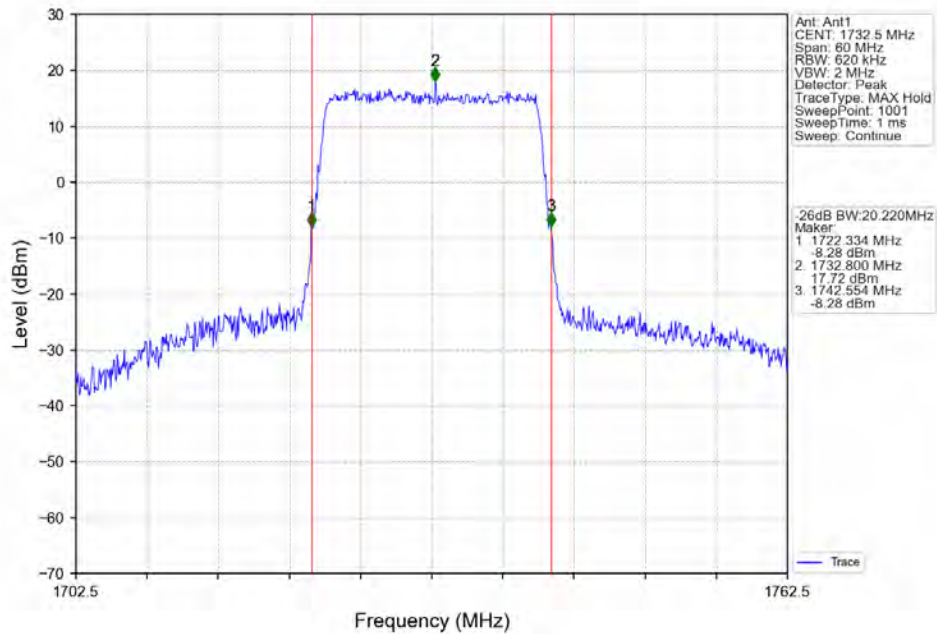
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Band4_20MHz_16QAM_HCH_1745MHz_RB_100_0_NTNV



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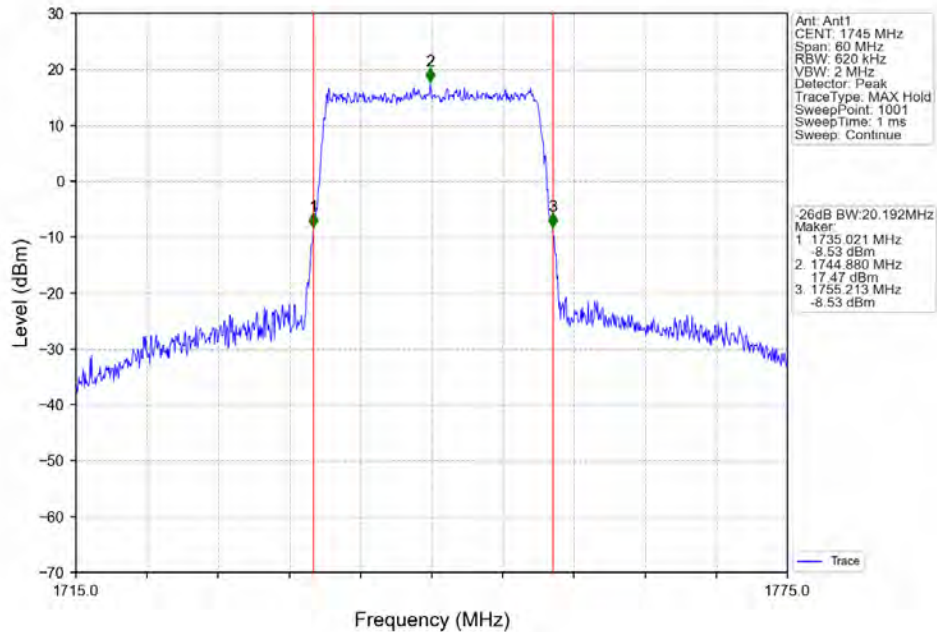
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4. Peak-Average Ratio

4.1 B4_1.4MHz

4.1.1 Test Result

Band: 4 / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1710.7	6	0	5.20	<=13	Pass
	1732.5	6	0	5.59	<=13	Pass
	1754.3	6	0	5.14	<=13	Pass
16QAM	1710.7	6	0	6.06	<=13	Pass
	1732.5	6	0	6.36	<=13	Pass
	1754.3	6	0	5.93	<=13	Pass



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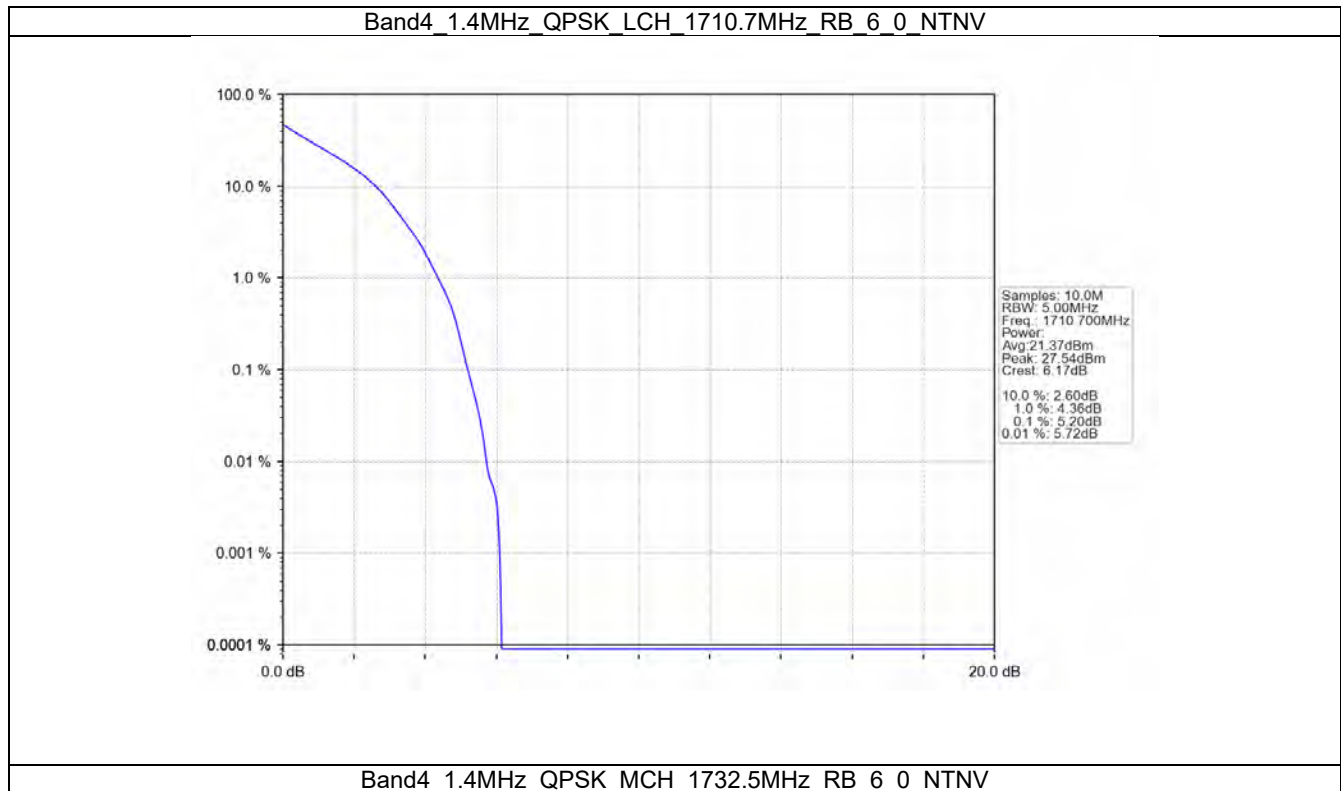
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4.1.2 Test Graph



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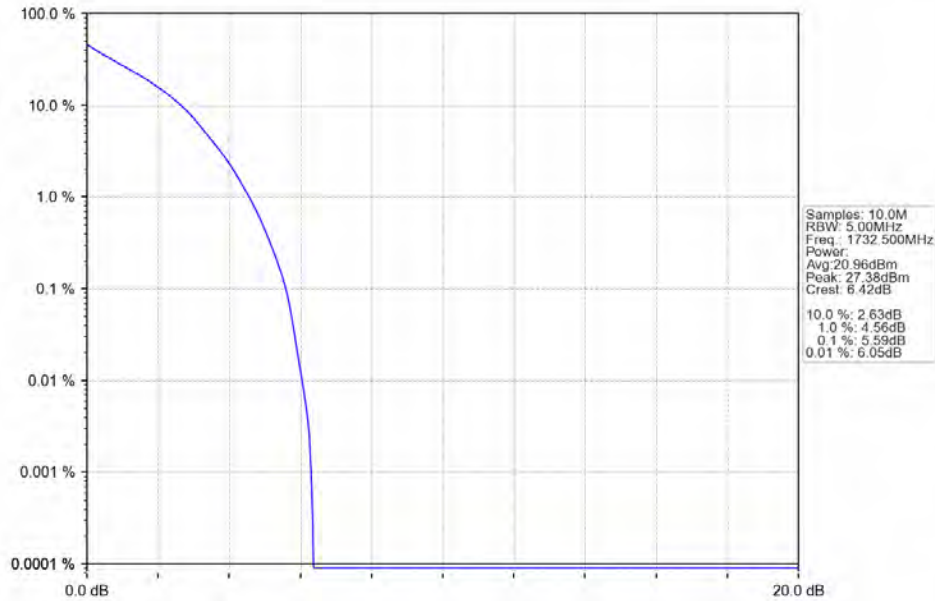
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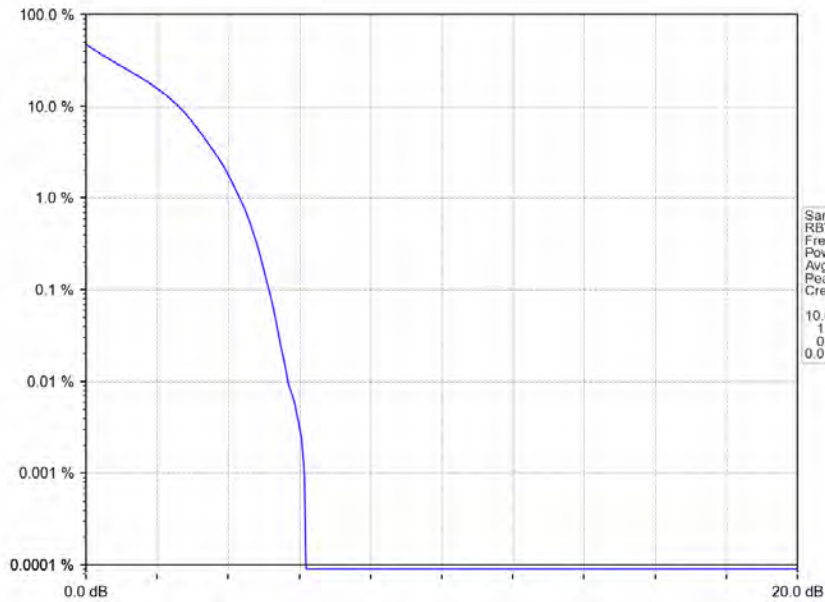
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Band4 1.4MHz QPSK HCH 1754.3MHz RB 6 0 NTNV



Band4 1.4MHz 16QAM LCH 1710.7MHz RB 6 0 NTNV



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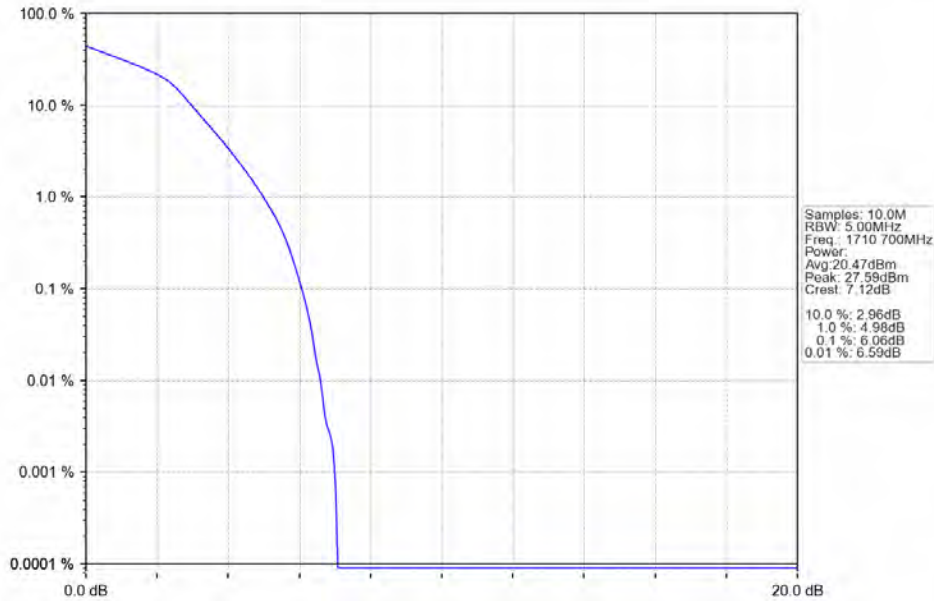
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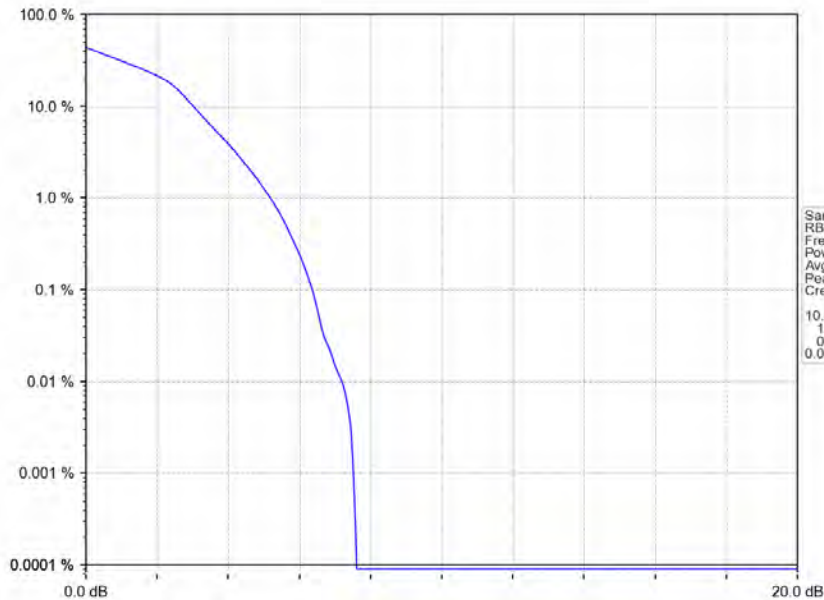
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Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV



Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_6_0_NTNV



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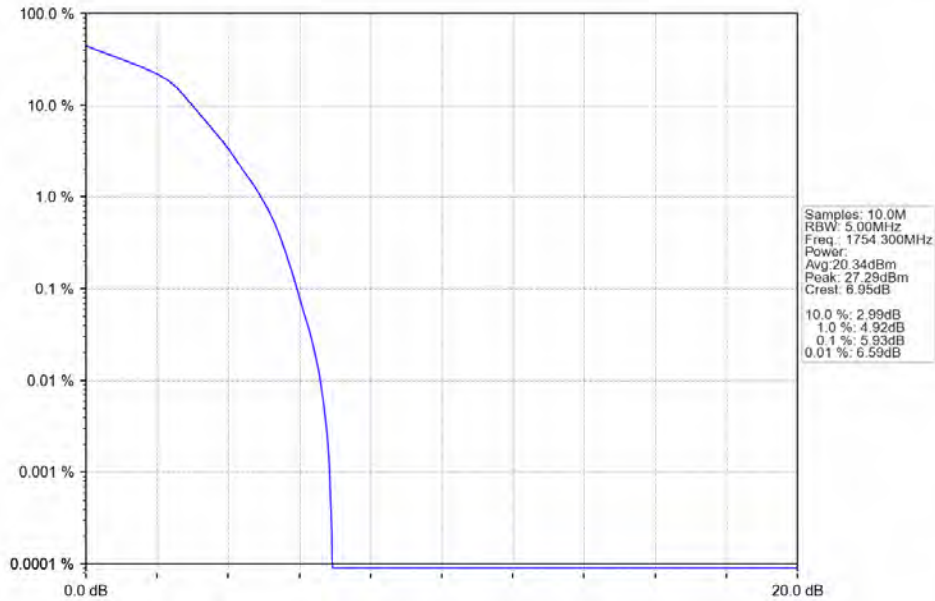
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4.2 B4_3MHz

4.2.1 Test Result

Band: 4 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1711.5	15	0	5.37	<=13	Pass
	1732.5	15	0	5.58	<=13	Pass
	1753.5	15	0	5.26	<=13	Pass
16QAM	1711.5	15	0	6.17	<=13	Pass
	1732.5	15	0	6.42	<=13	Pass
	1753.5	15	0	6.06	<=13	Pass



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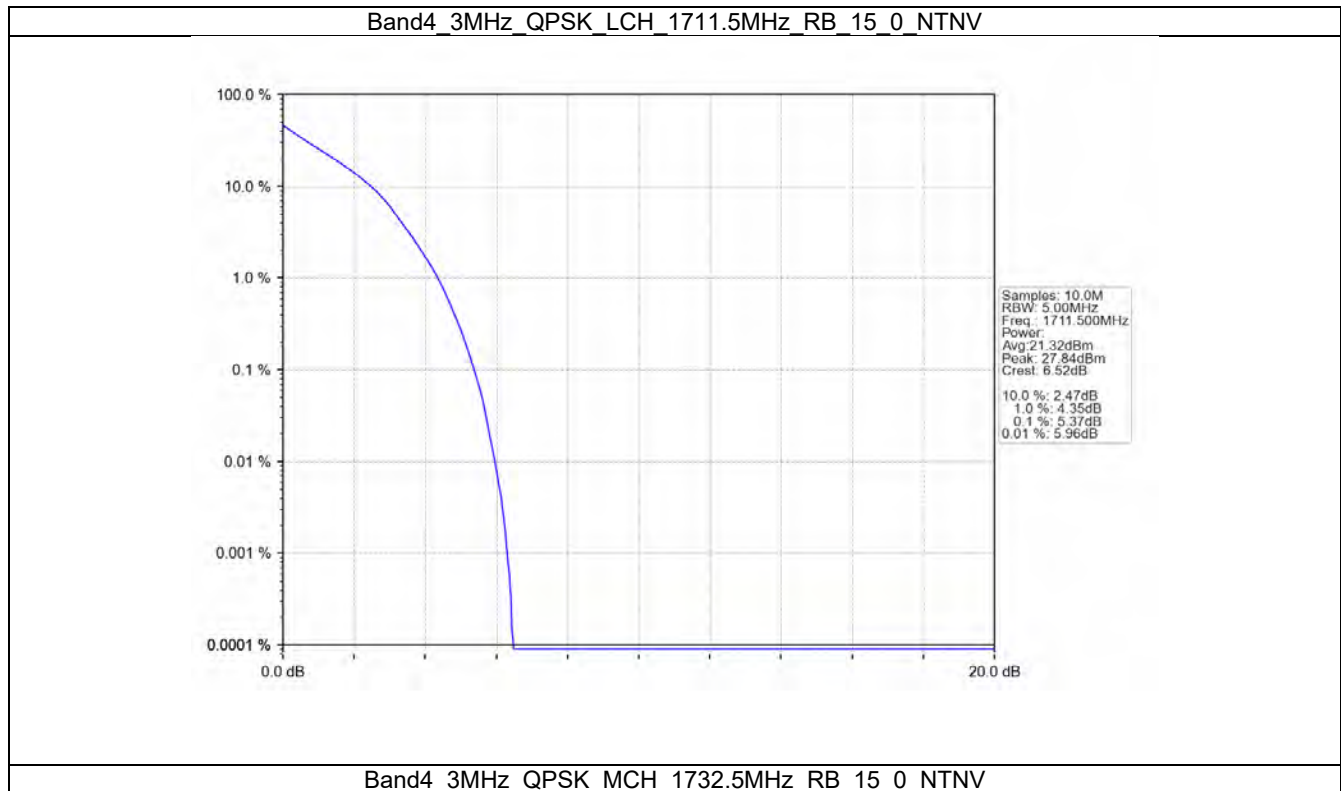
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4.2.2 Test Graph



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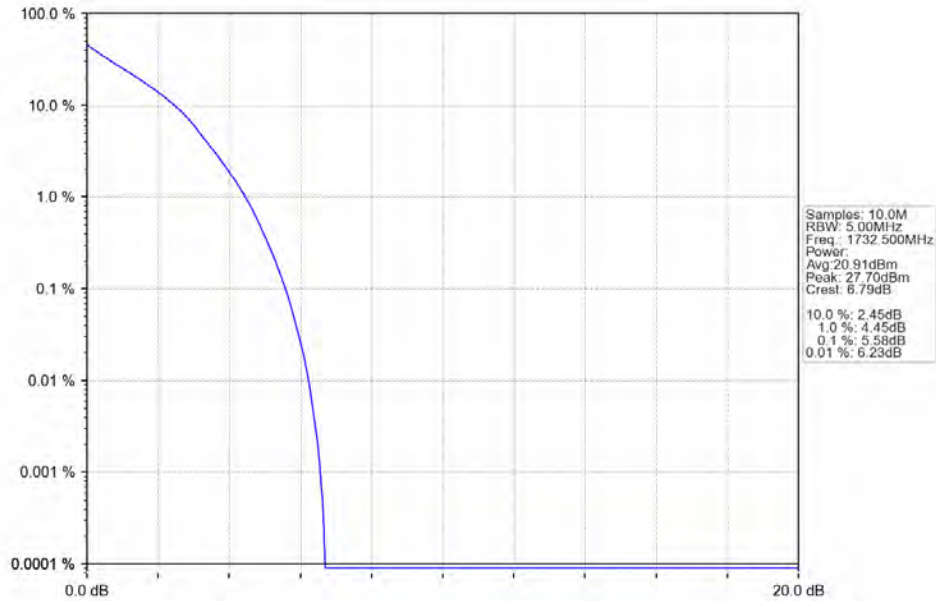
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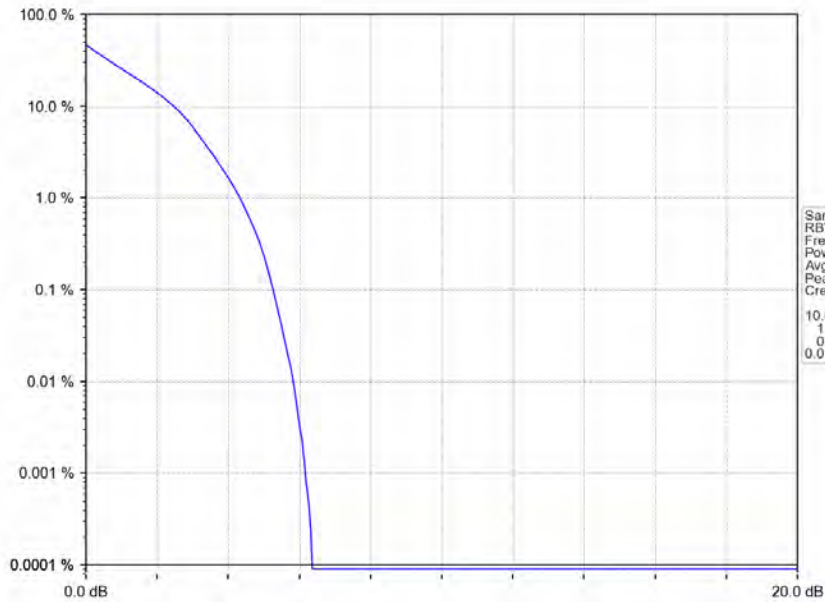
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Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV



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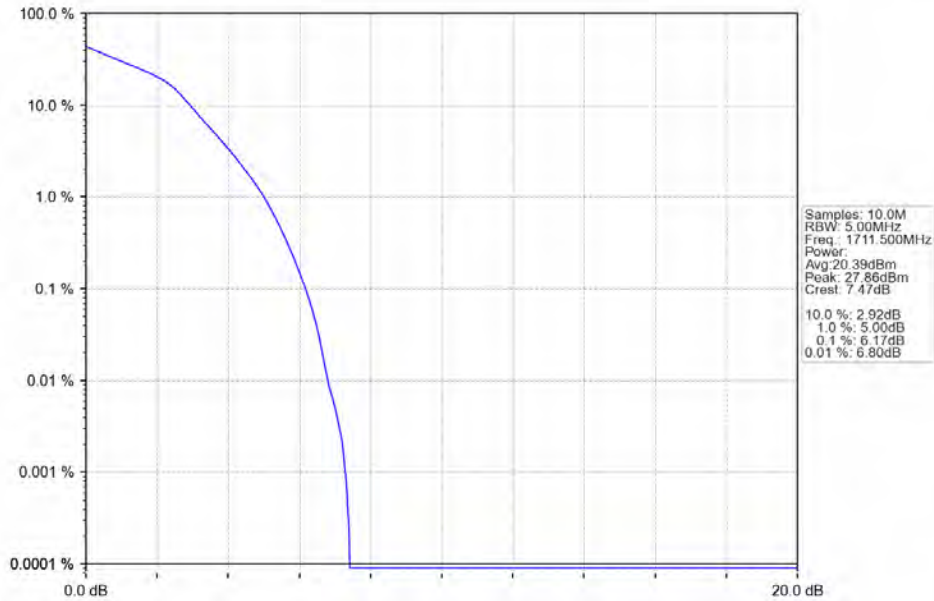
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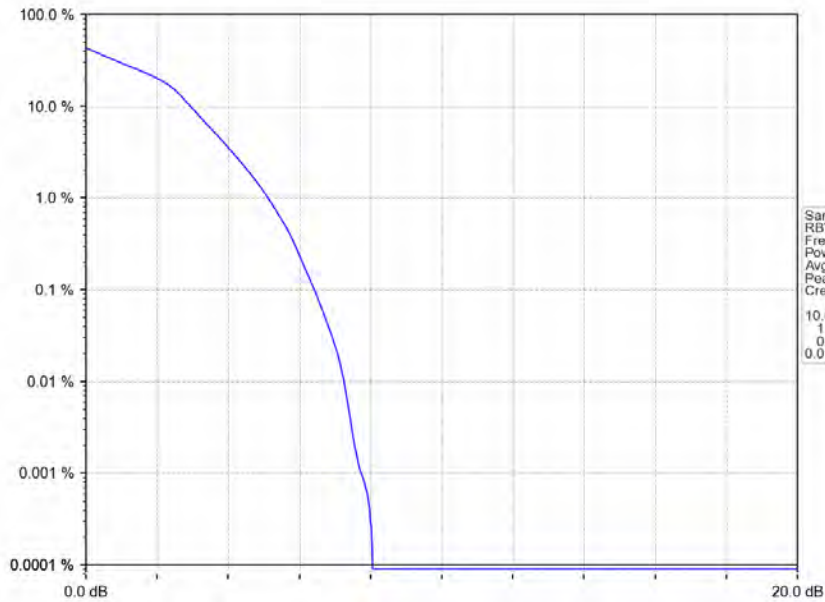
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Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV



Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV



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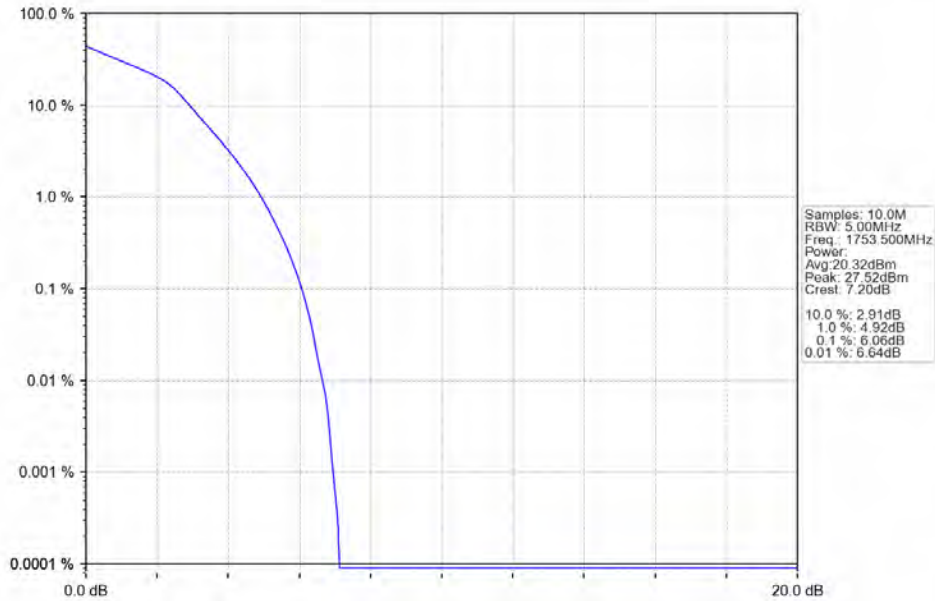
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4.3 B4_5MHz

4.3.1 Test Result

Band: 4 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1712.5	25	0	5.54	<=13	Pass
	1732.5	25	0	5.74	<=13	Pass
	1752.5	25	0	5.52	<=13	Pass
16QAM	1712.5	25	0	6.21	<=13	Pass
	1732.5	25	0	6.42	<=13	Pass
	1752.5	25	0	6.25	<=13	Pass



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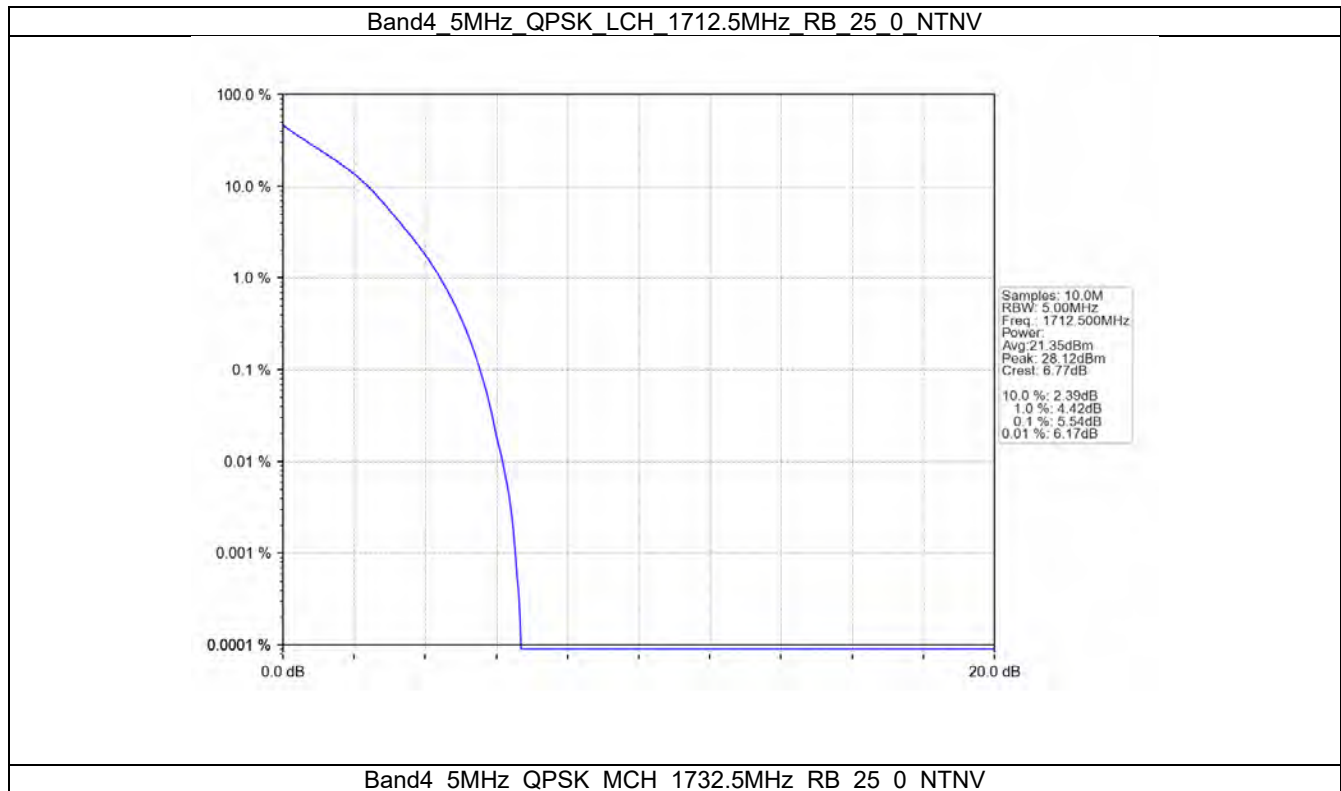
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4.3.2 Test Graph



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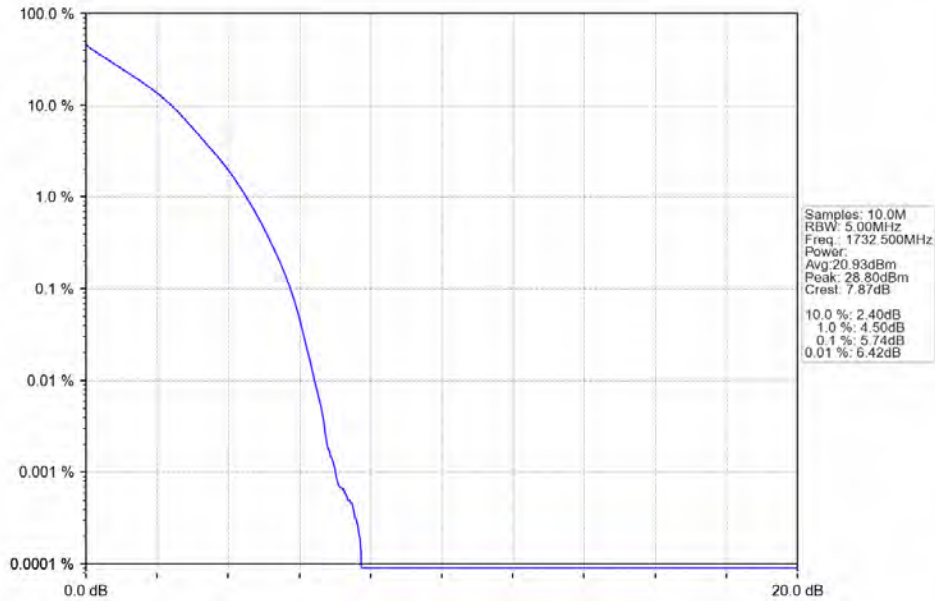
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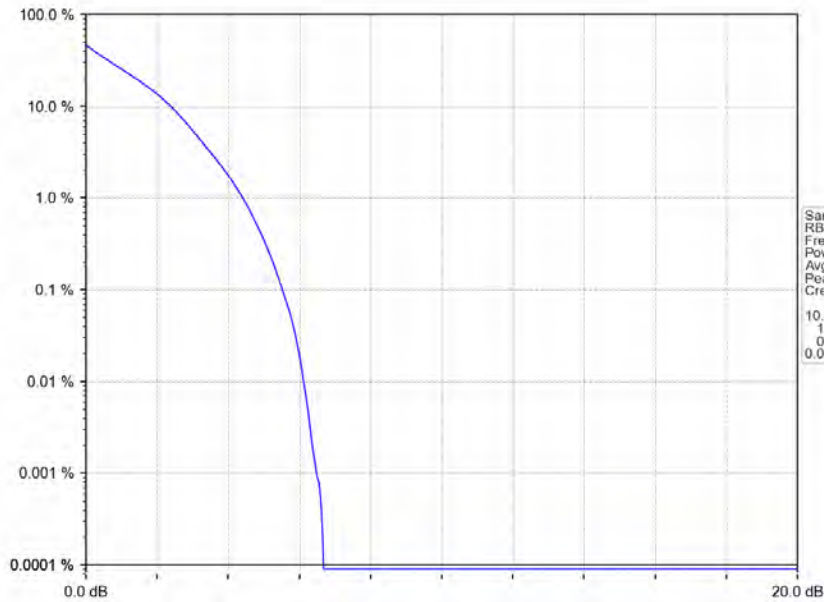
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Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNV



Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV



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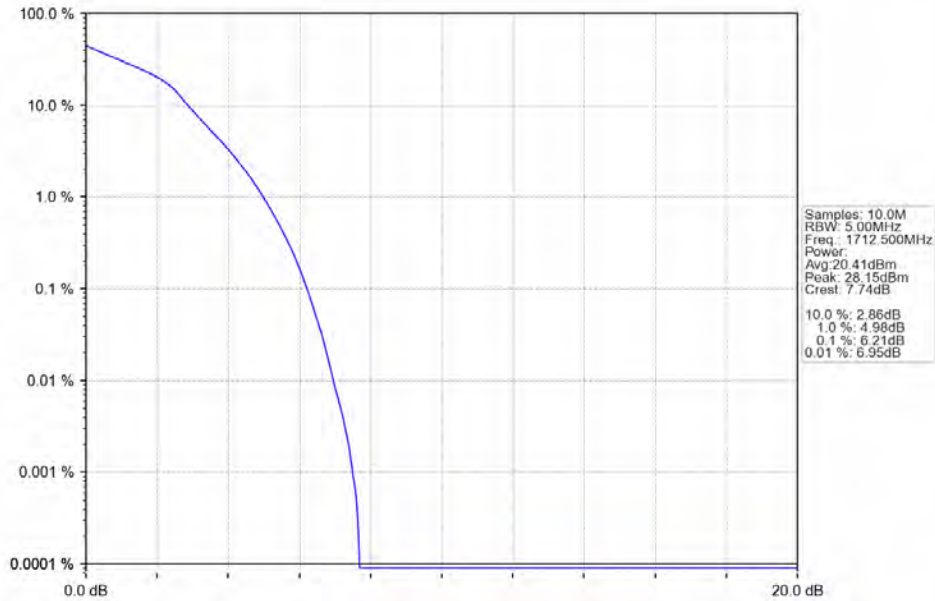
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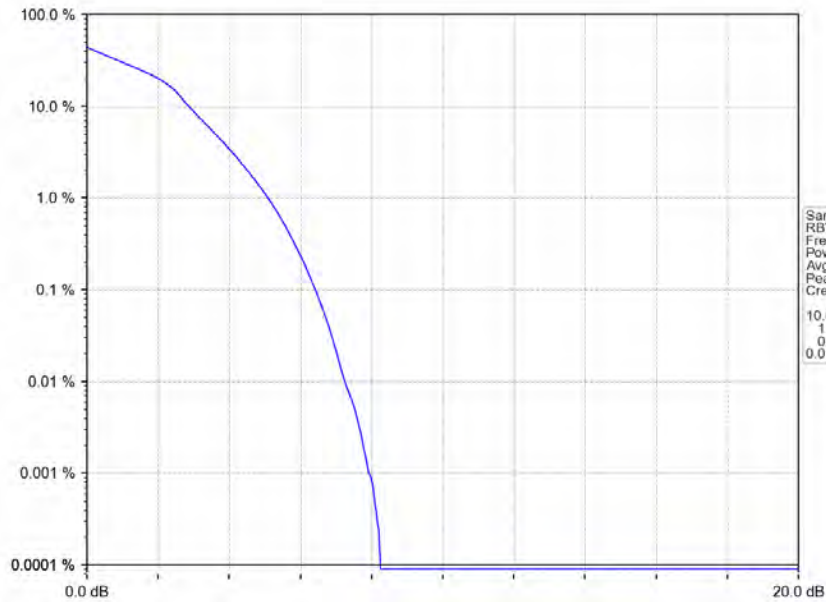
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Band4_5MHz_16QAM_MCH_1732.5MHz_RB_25_0_NTNV



Band4_5MHz_16QAM_HCH_1752.5MHz_RB_25_0_NTNV



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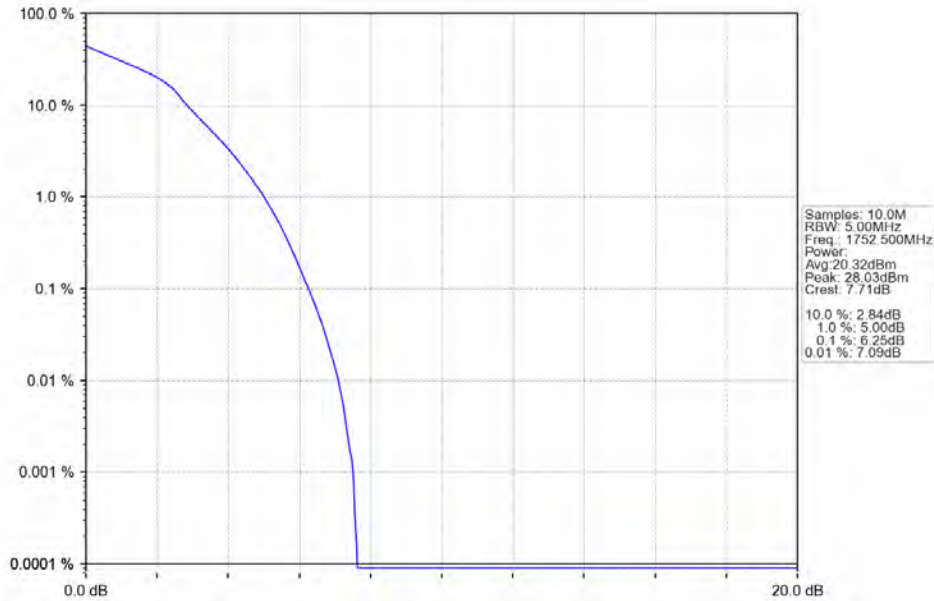
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4.4 B4_10MHz

4.4.1 Test Result

Band: 4 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1715	50	0	5.51	<=13	Pass
	1732.5	50	0	5.69	<=13	Pass
	1750	50	0	5.55	<=13	Pass
16QAM	1715	50	0	6.23	<=13	Pass
	1732.5	50	0	6.44	<=13	Pass
	1750	50	0	6.30	<=13	Pass



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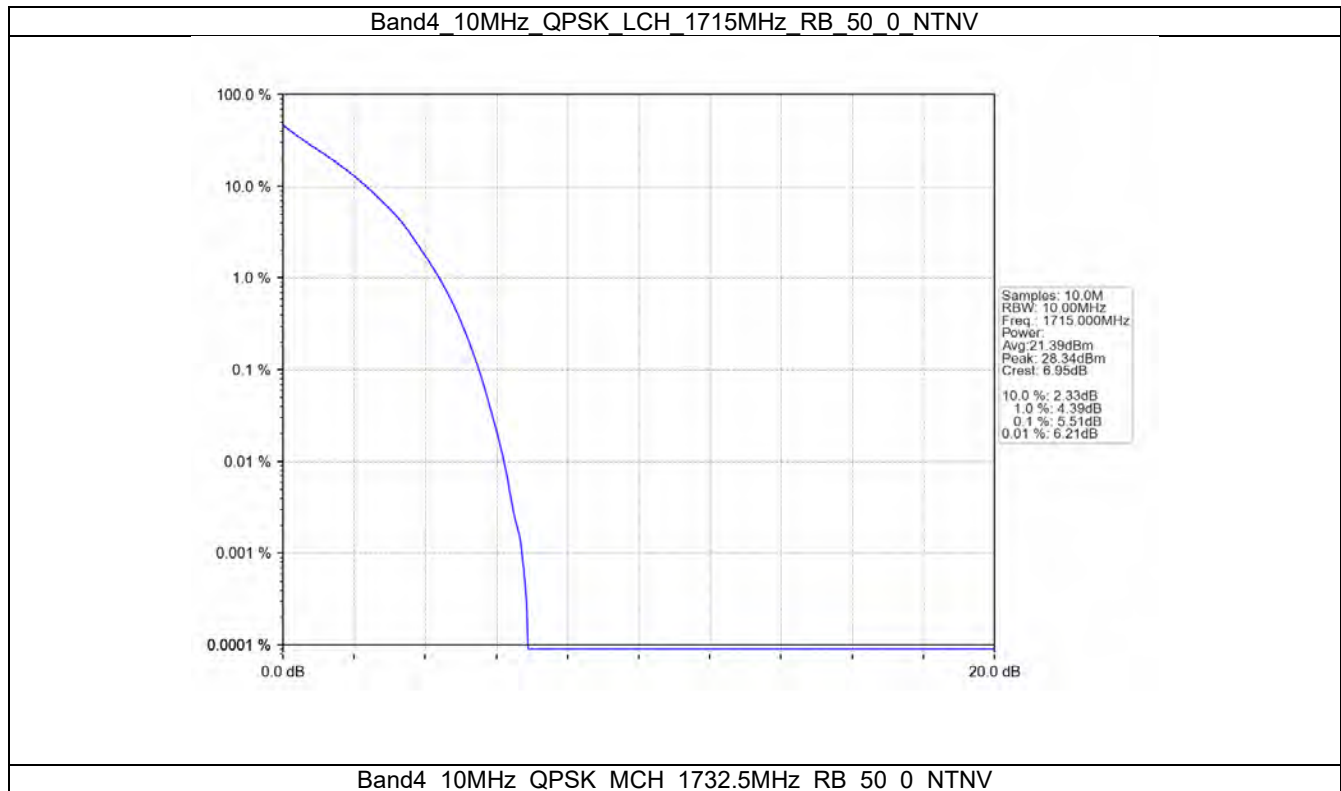
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4.4.2 Test Graph



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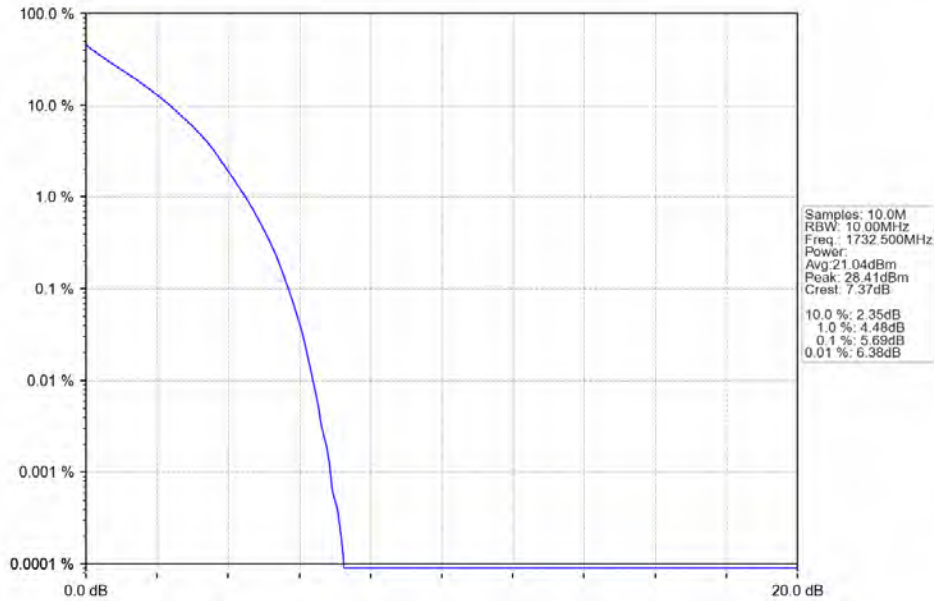
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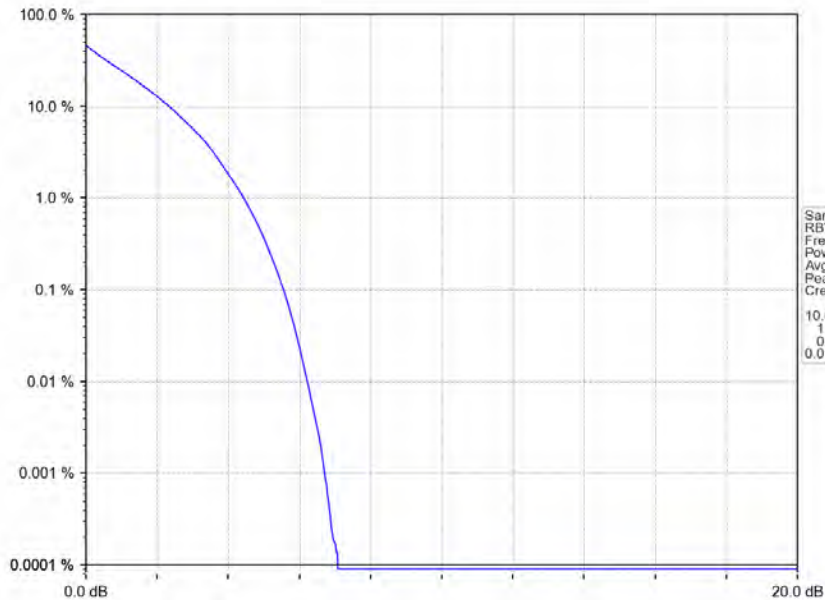
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Band4 10MHz QPSK HCH 1750MHz RB 50 0 NTNV



Band4 10MHz 16QAM LCH 1715MHz RB 50 0 NTNV



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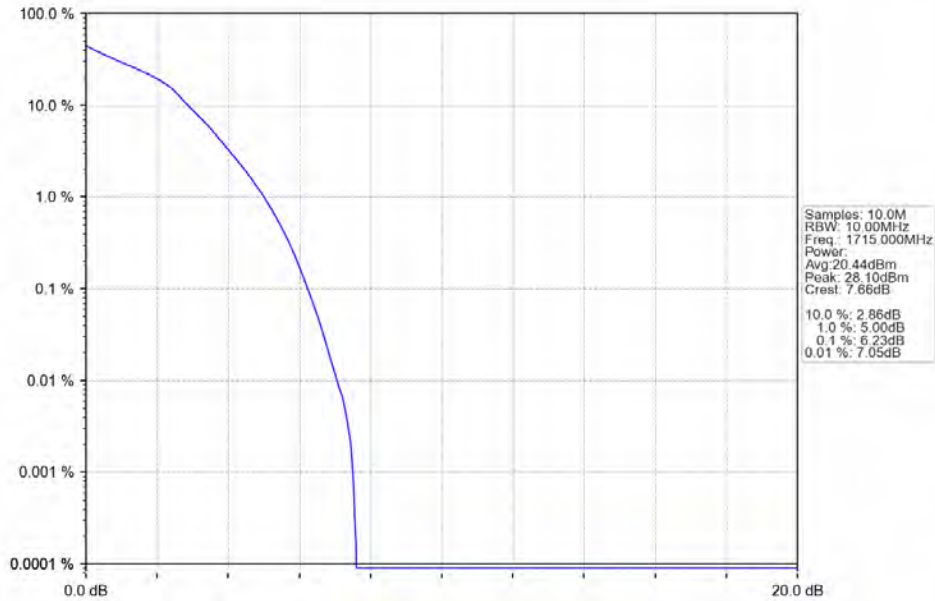
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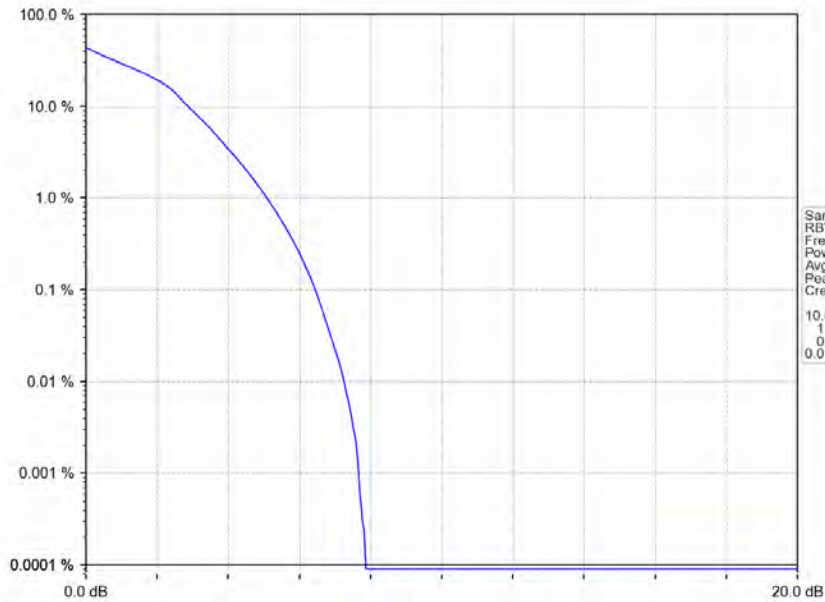
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Band4_10MHz_16QAM_HCH_1750MHz_RB_50_0_NTNV



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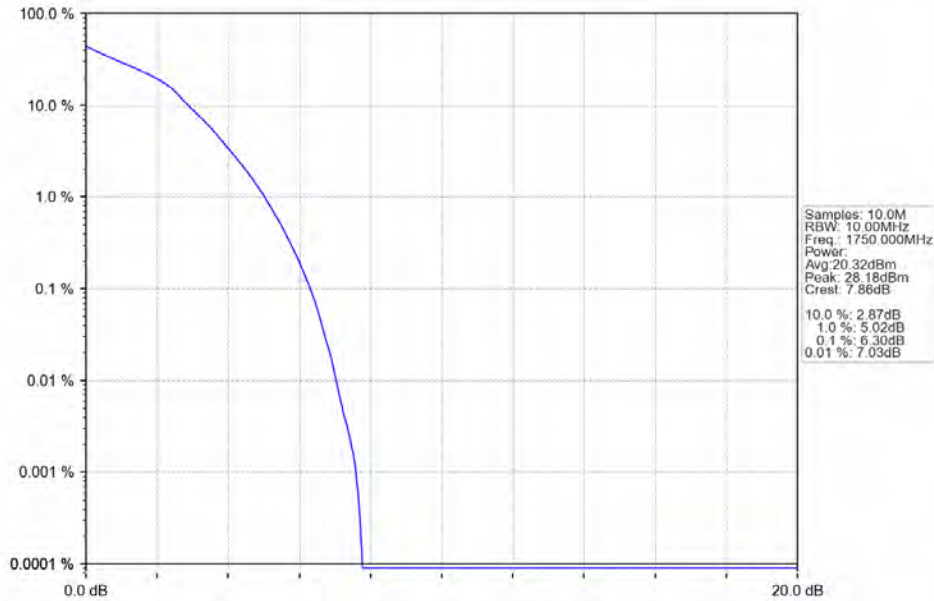
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4.5 B4_15MHz

4.5.1 Test Result

Band: 4 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1717.5	75	0	5.72	<=13	Pass
	1732.5	75	0	5.94	<=13	Pass
	1747.5	75	0	5.82	<=13	Pass
16QAM	1717.5	75	0	6.27	<=13	Pass
	1732.5	75	0	6.47	<=13	Pass
	1747.5	75	0	6.35	<=13	Pass



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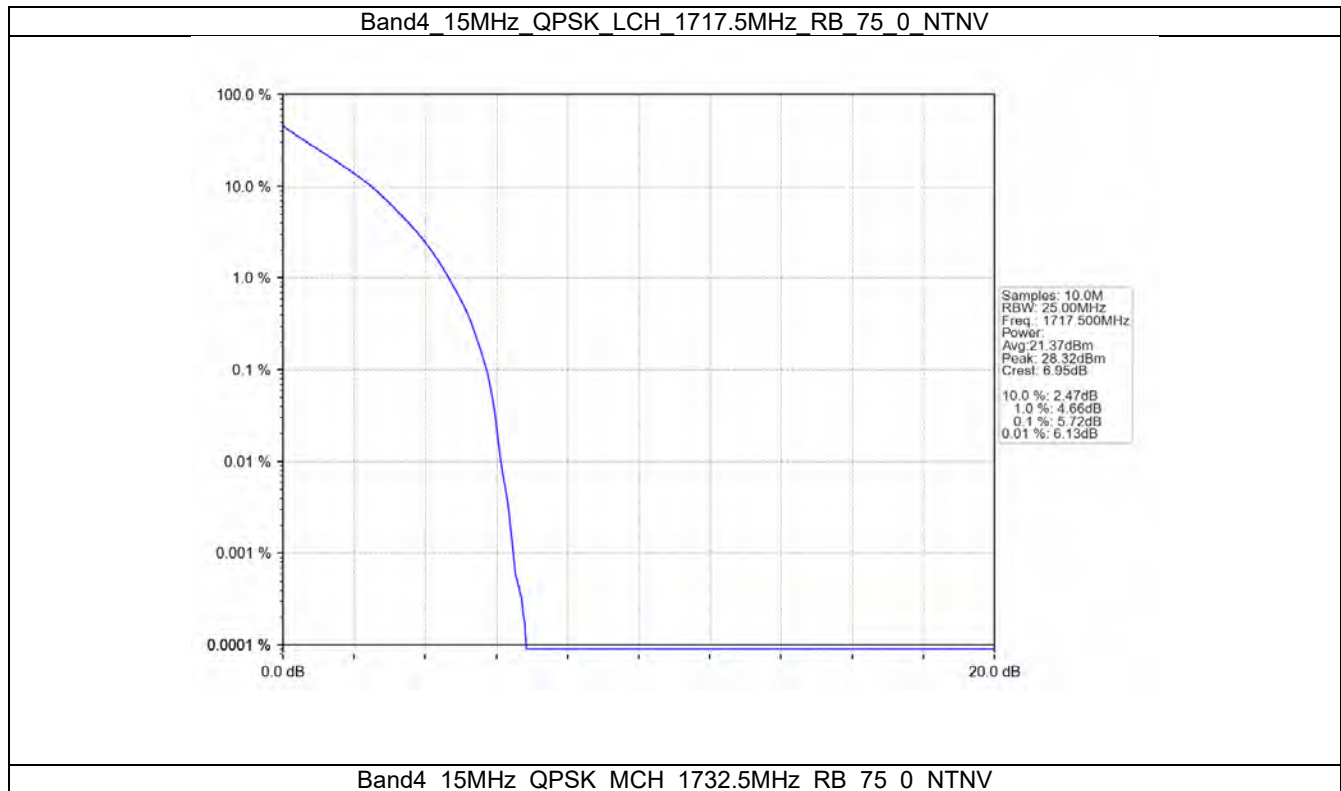
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4.5.2 Test Graph



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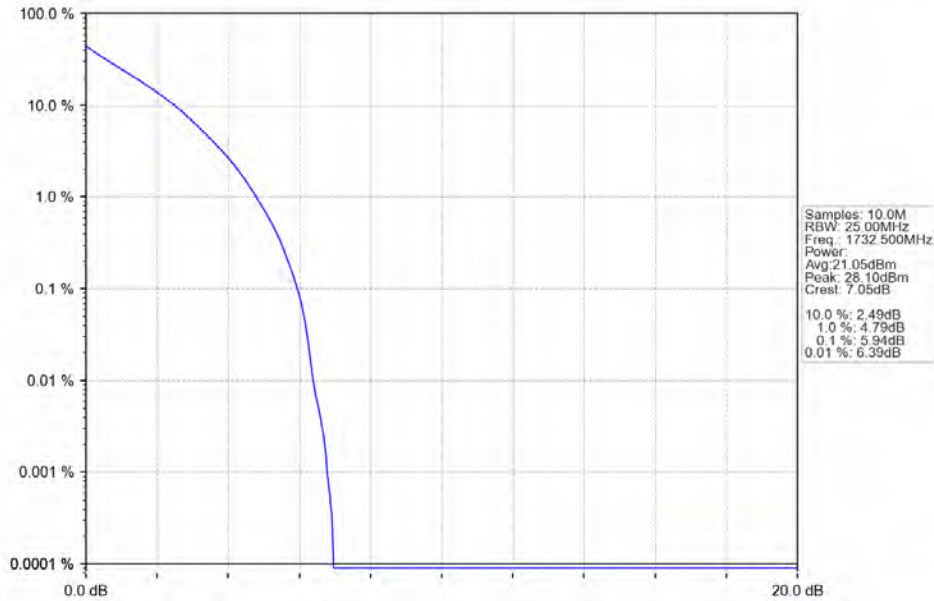
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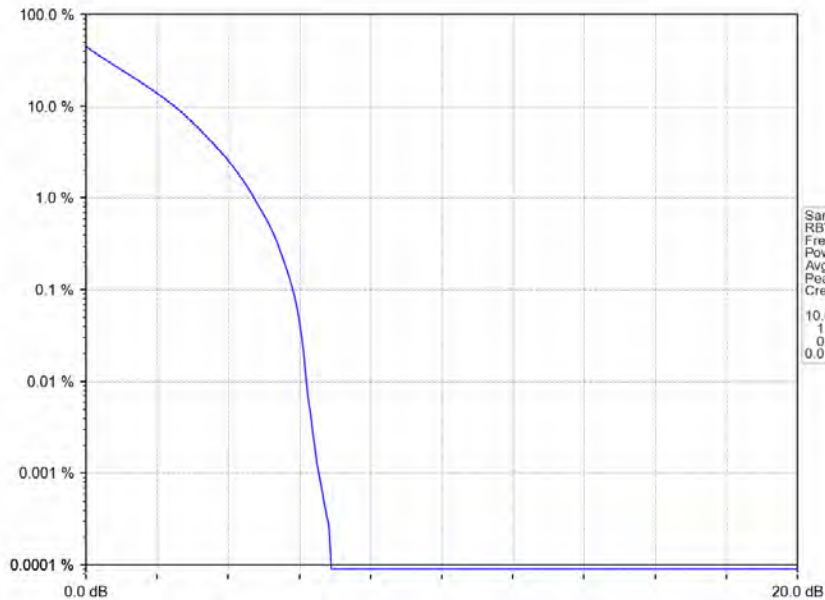
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Band4_15MHz_QPSK_HCH_1747.5MHz_RB_75_0_NTNV



Samples: 10.0M
RBW: 25.00MHz
Freq: 1747.500MHz
Power:
Avg: 21.17dBm
Peak: 28.15dBm
Crest: 6.98dB
10.0 %: 2.48dB
1.0 %: 4.72dB
0.1 %: 5.82dB
0.01 %: 6.19dB

Band4_15MHz_16QAM_LCH_1717.5MHz_RB_75_0_NTNV



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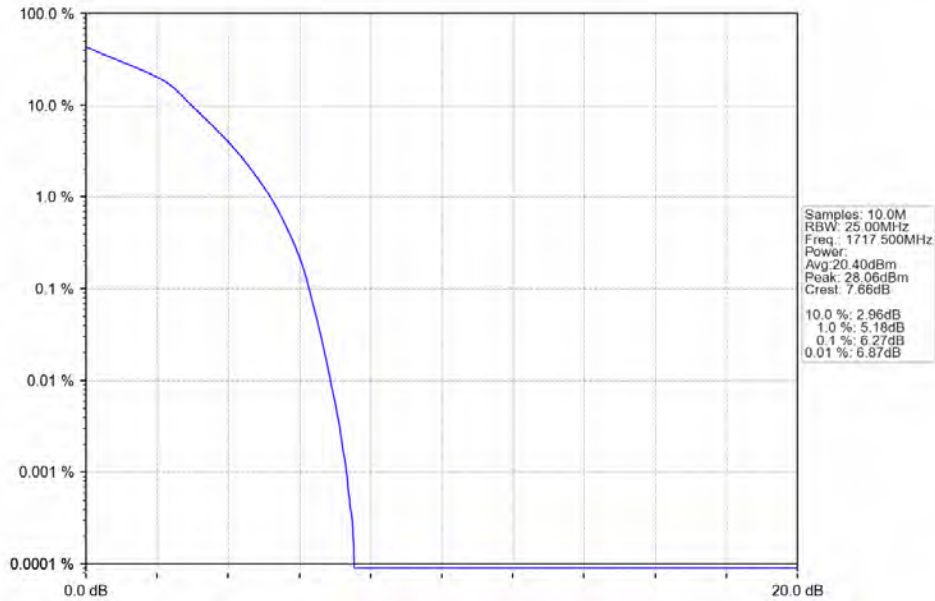
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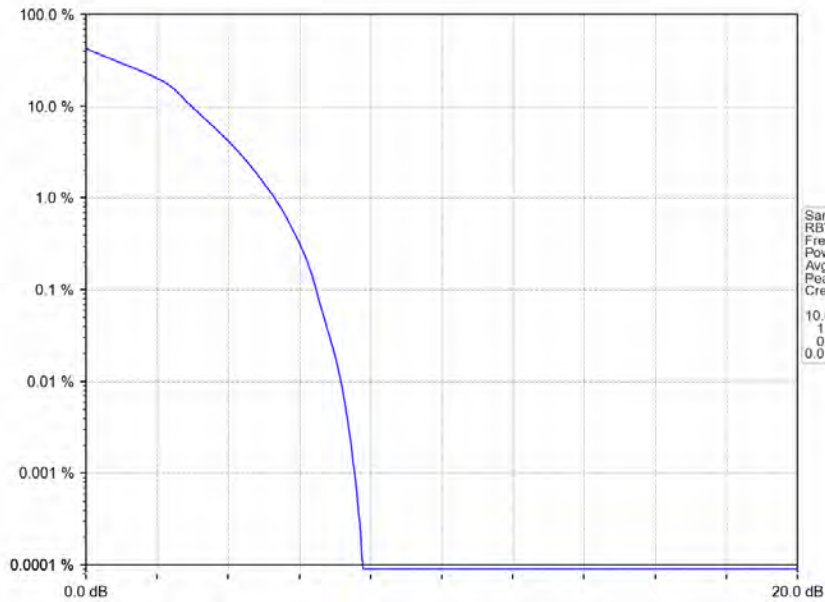
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Band4_15MHz_16QAM_MCH_1732.5MHz_RB_75_0_NTNV



Band4_15MHz_16QAM_HCH_1747.5MHz_RB_75_0_NTNV



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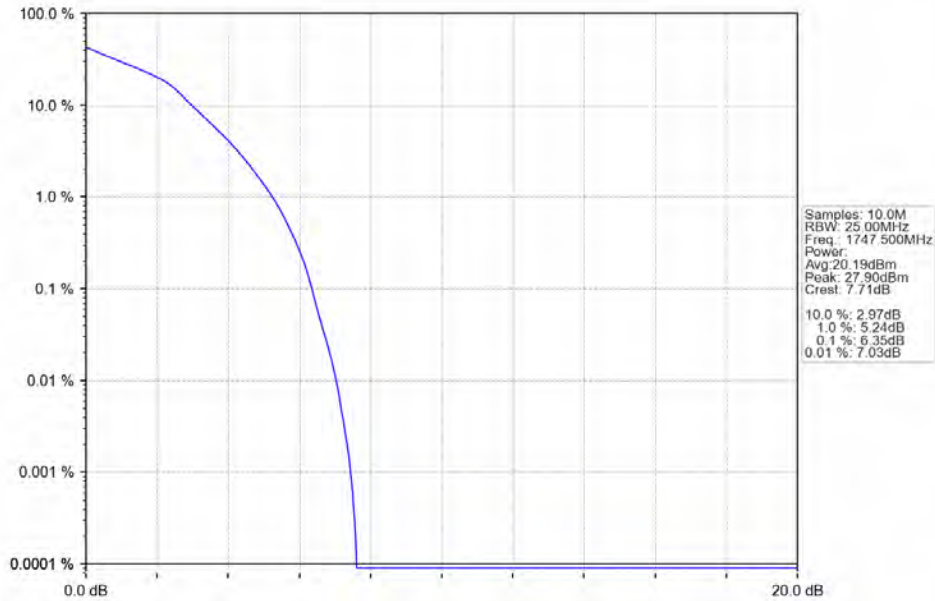
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4.6 B4_20MHz

4.6.1 Test Result

Band: 4 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1720	100	0	5.50	<=13	Pass
	1732.5	100	0	5.66	<=13	Pass
	1745	100	0	5.66	<=13	Pass
16QAM	1720	100	0	6.27	<=13	Pass
	1732.5	100	0	6.40	<=13	Pass
	1745	100	0	6.35	<=13	Pass



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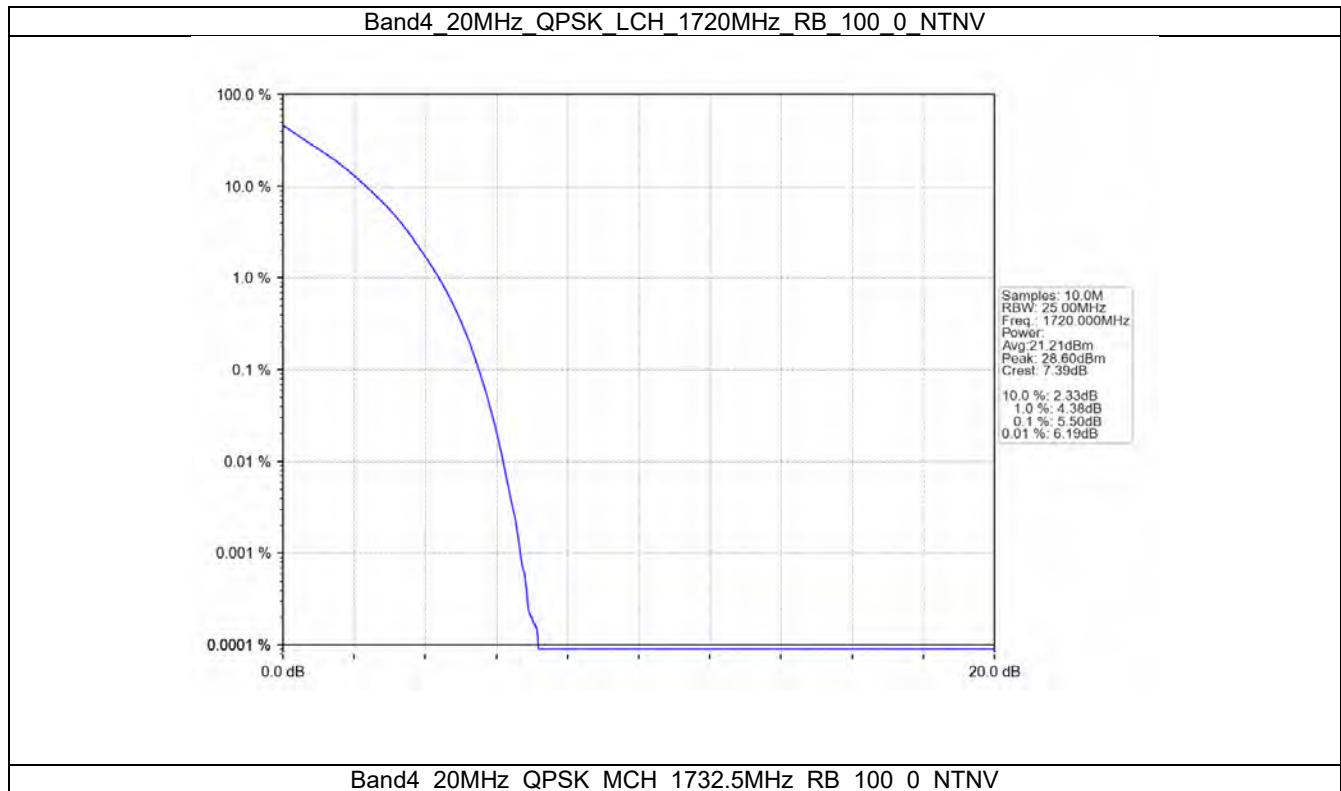
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4.6.2 Test Graph



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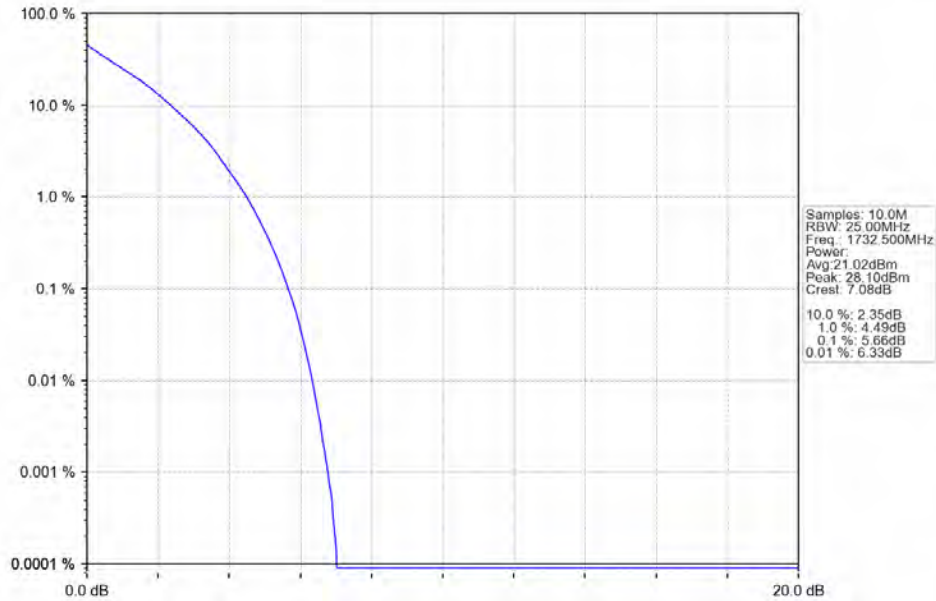
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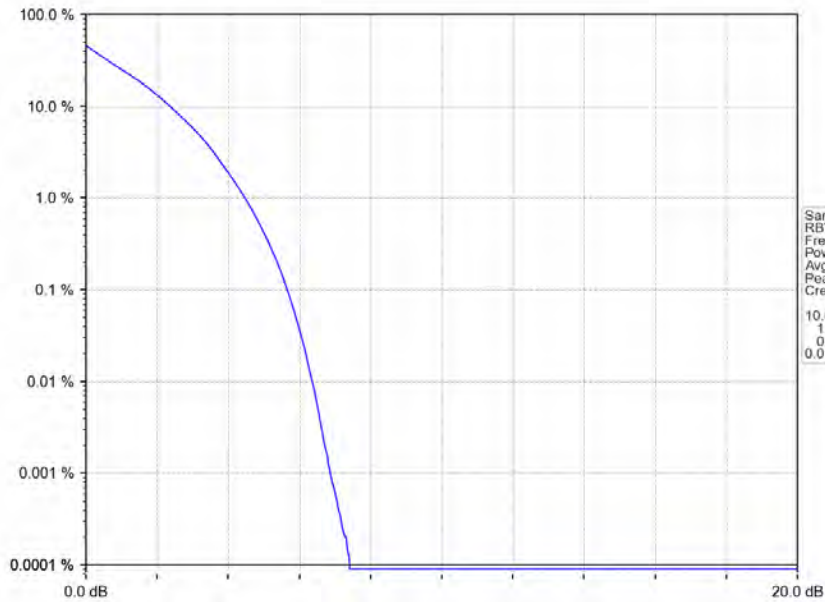
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Band4_20MHz_QPSK_HCH_1745MHz_RB_100_0_NTNV



Samples: 10.0M
RBW: 25.00MHz
Freq.: 1745.000MHz
Power:
Avg 21.07dBm
Peak: 28.59dBm
Crest: 7.52dB
10.0%: 2.36dB
1.0%: 4.47dB
0.1%: 5.66dB
0.01%: 6.36dB

Band4_20MHz_16QAM_LCH_1720MHz_RB_100_0_NTNV



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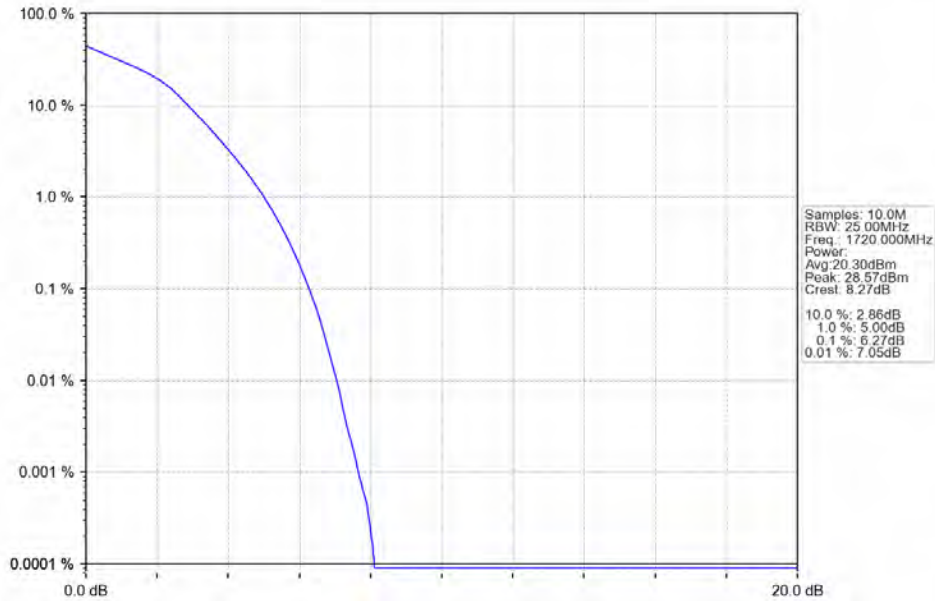
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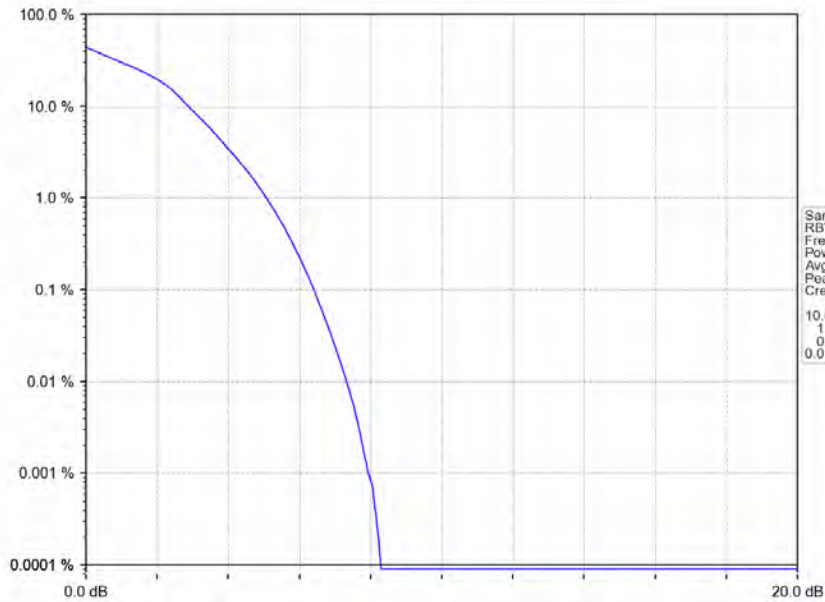
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Band4_20MHz_16QAM_MCH_1732.5MHz_RB_100_0_NTNV



Band4_20MHz_16QAM_HCH_1745MHz_RB_100_0_NTNV



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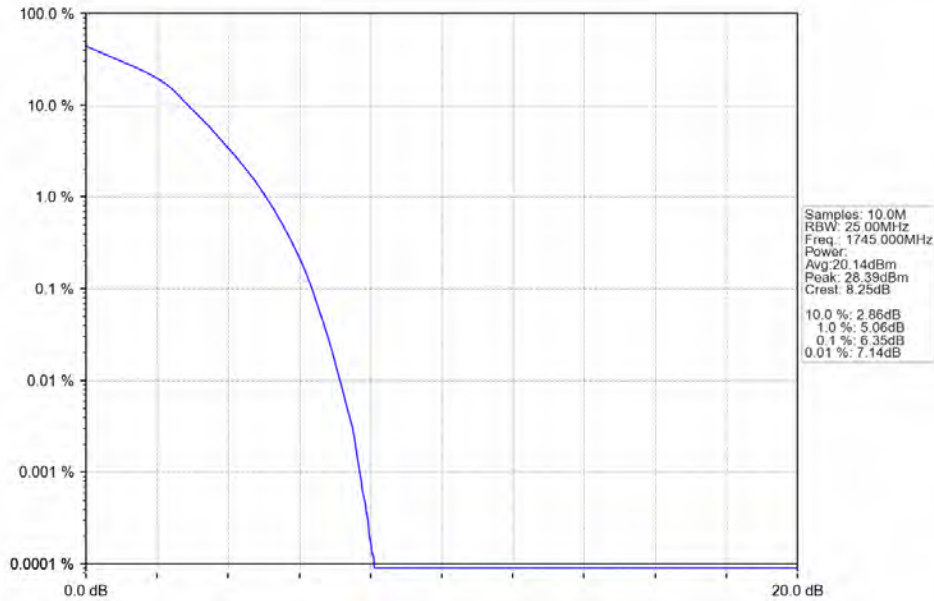
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5. Spurious Emission & Band Edges

5.1 B4_1.4MHz

5.1.1 Test Result

Band: 4 / Bandwidth: 1.4MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	1710.7	1	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
	1754.3	1	0	Refer To Test Graph		Pass
			5	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
16QAM	1710.7	1	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
	1754.3	1	0	Refer To Test Graph		Pass
			5	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass



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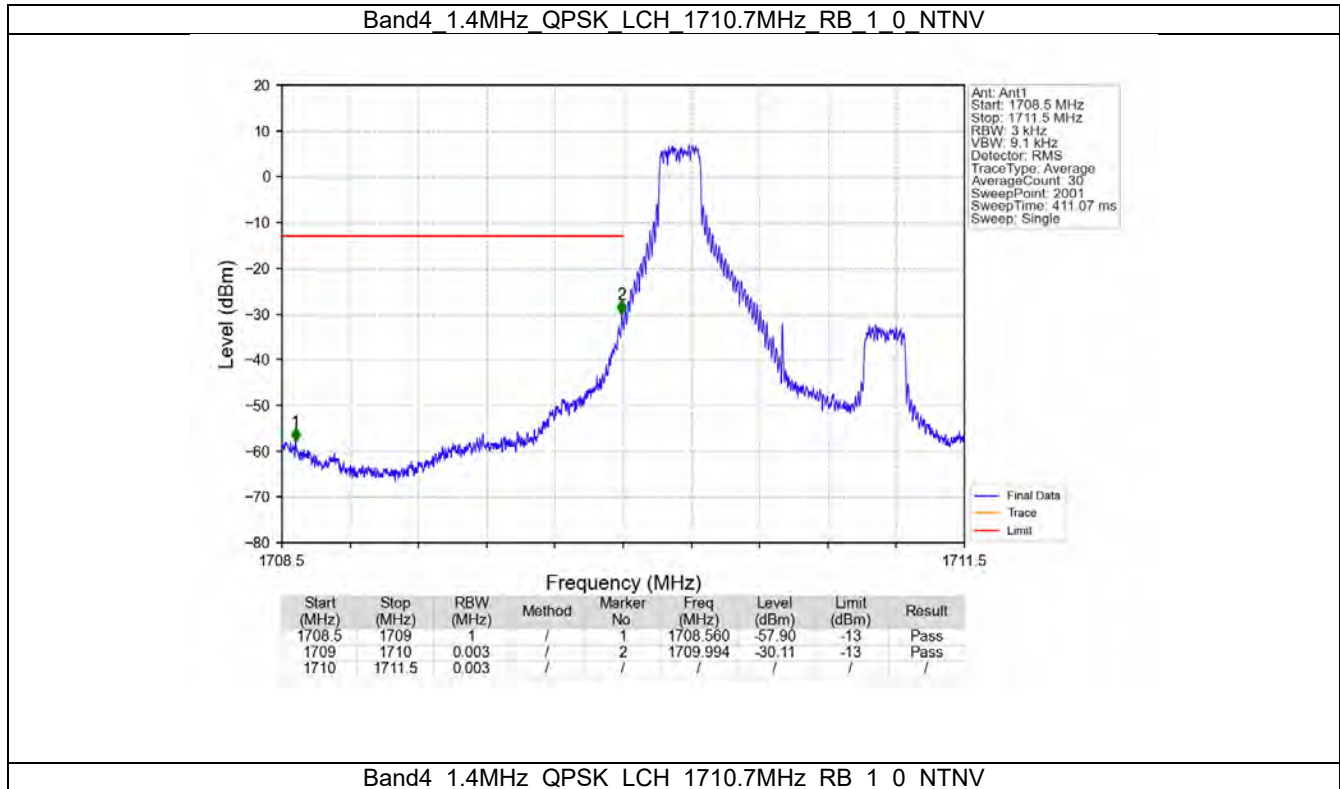
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5.1.2 Test Graph



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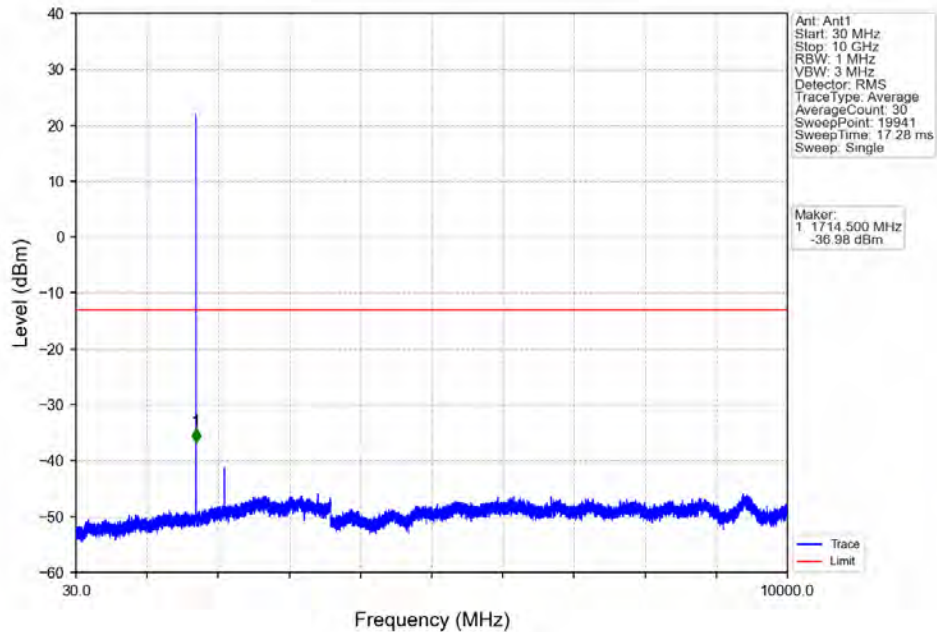
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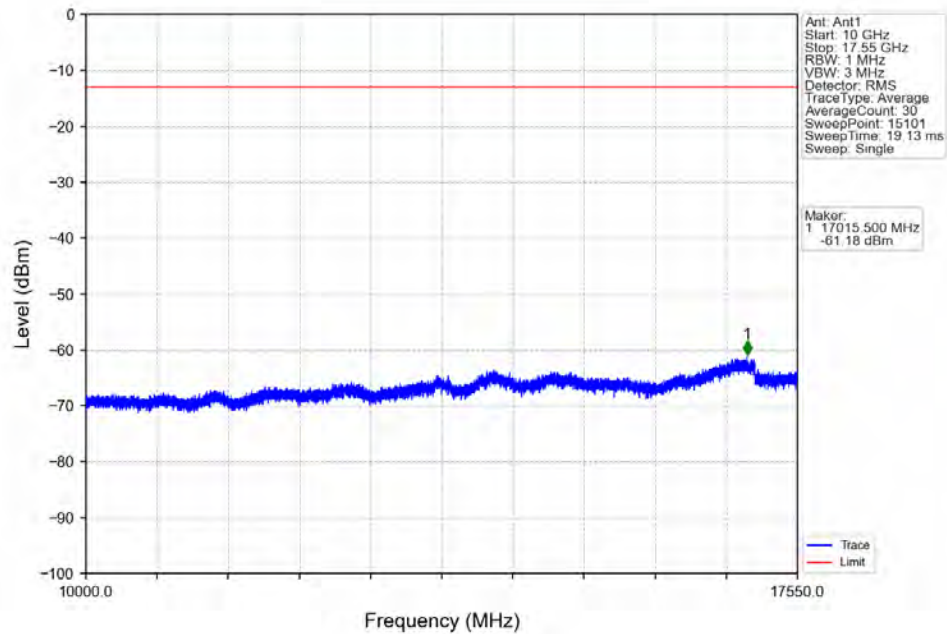
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Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_1_0_NTNV



Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_6_0_NTNV



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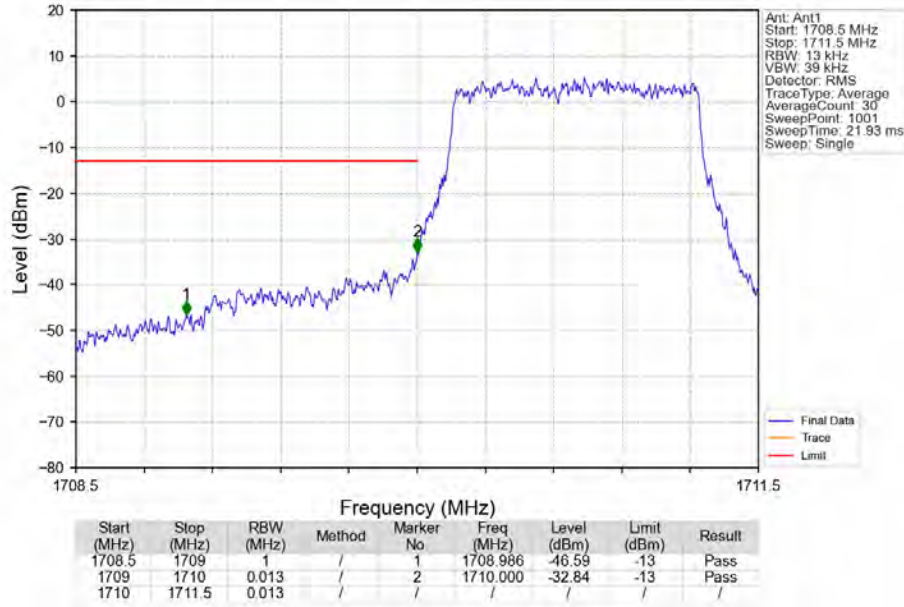
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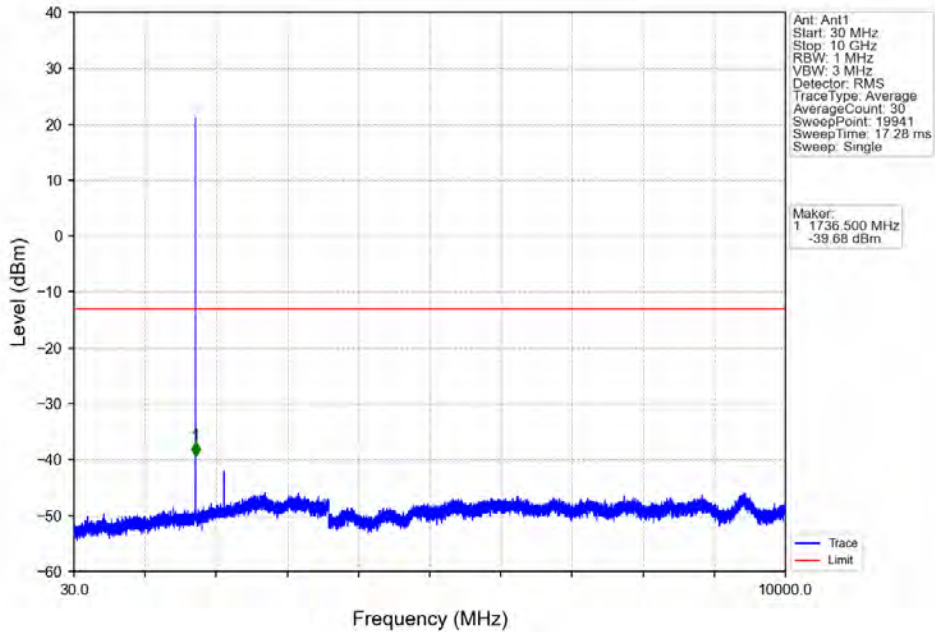
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Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



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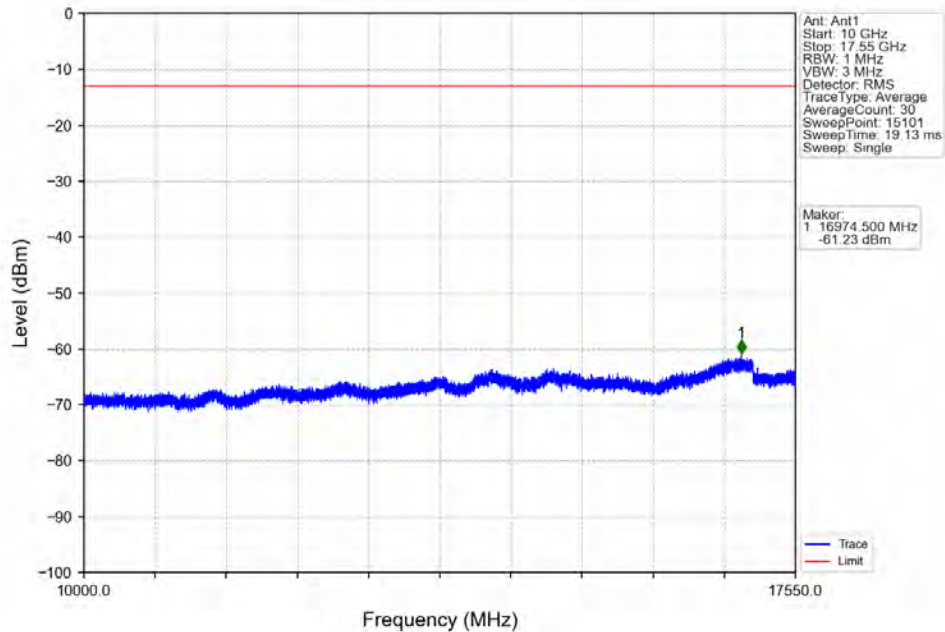
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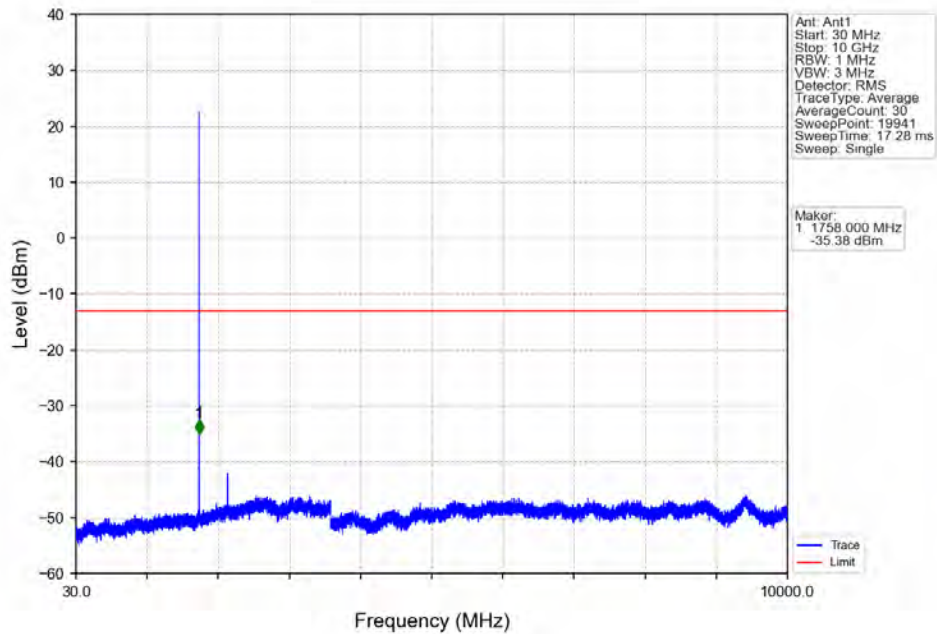
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Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_1_0_NTNV



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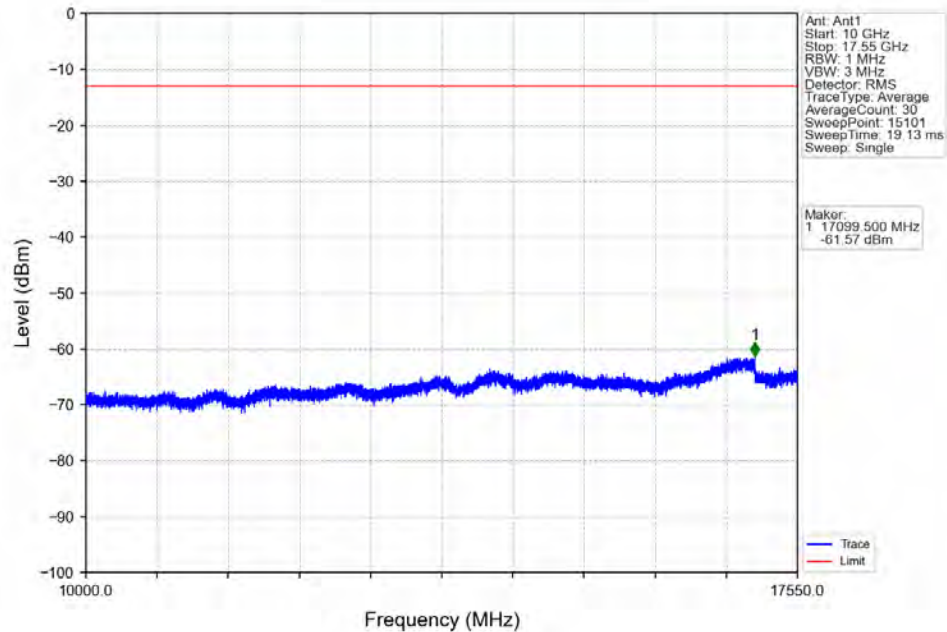
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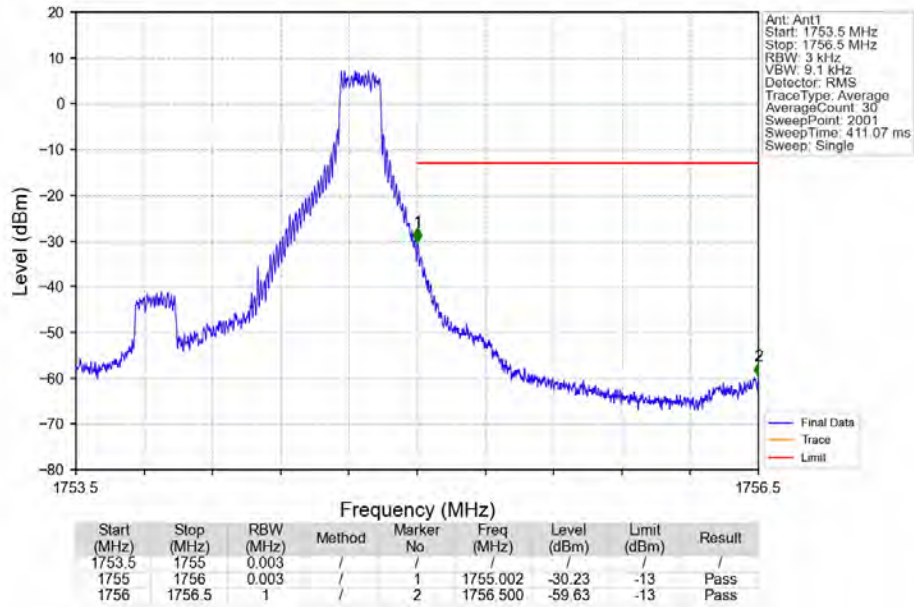
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Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_1_5_NTNV



Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



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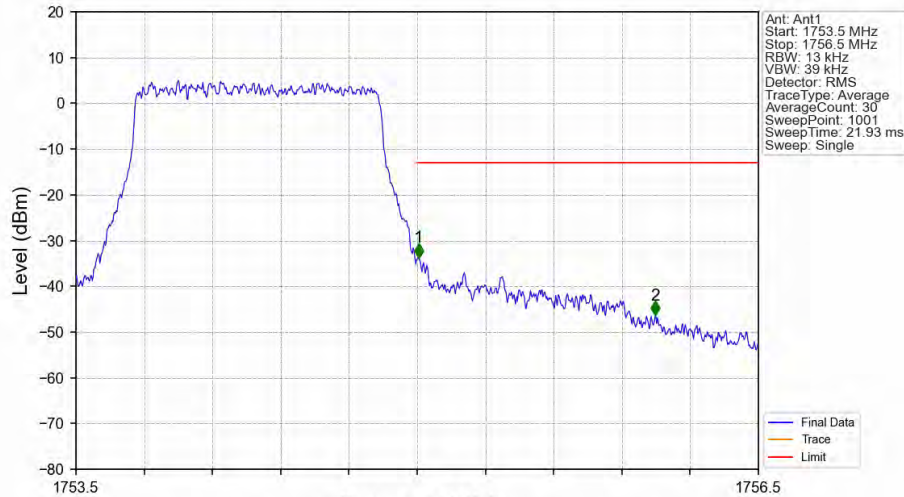
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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1753.5	1755	0.013	/	/	/	/	/	/
1755	1756	0.013	/	1	1755.006	-33.70	-13	Pass
1756	1756.5	1	/	2	1756.047	-46.31	-13	Pass



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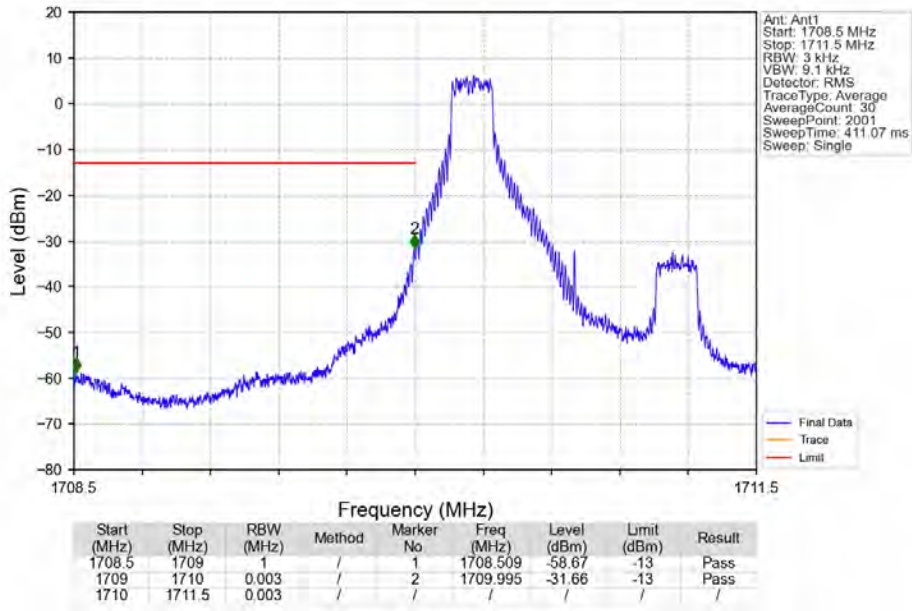
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Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_1_0_NTNV



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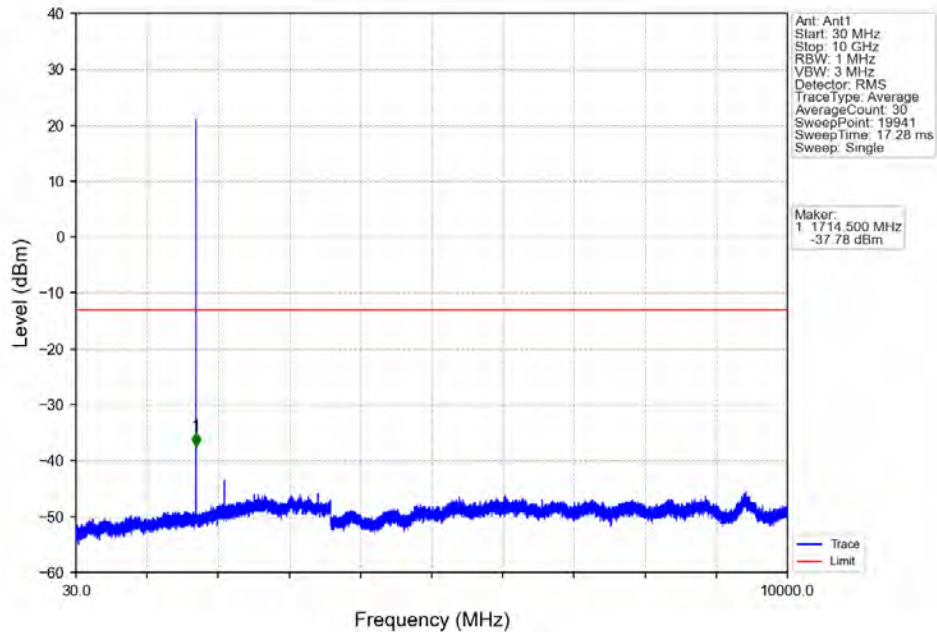
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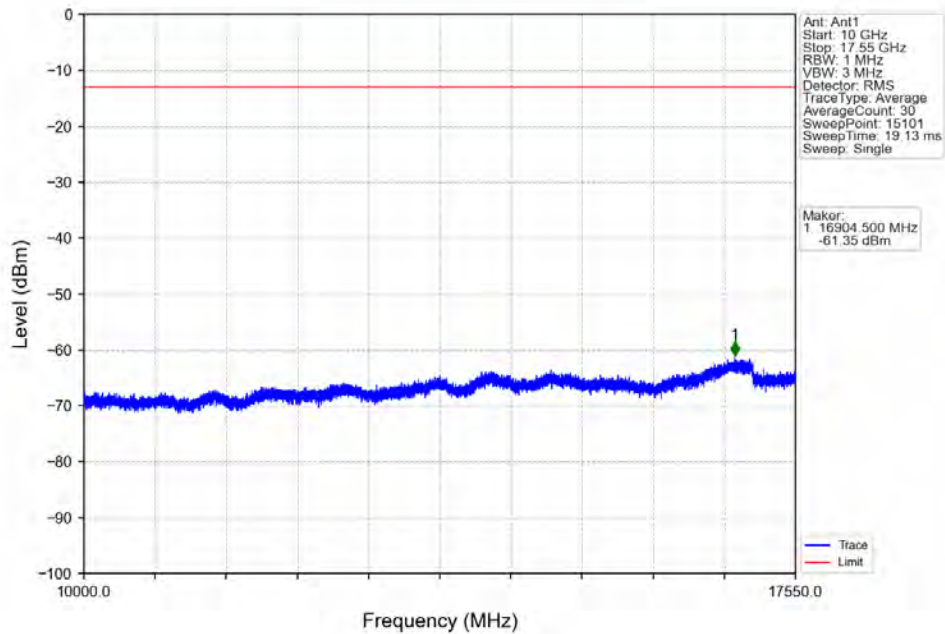
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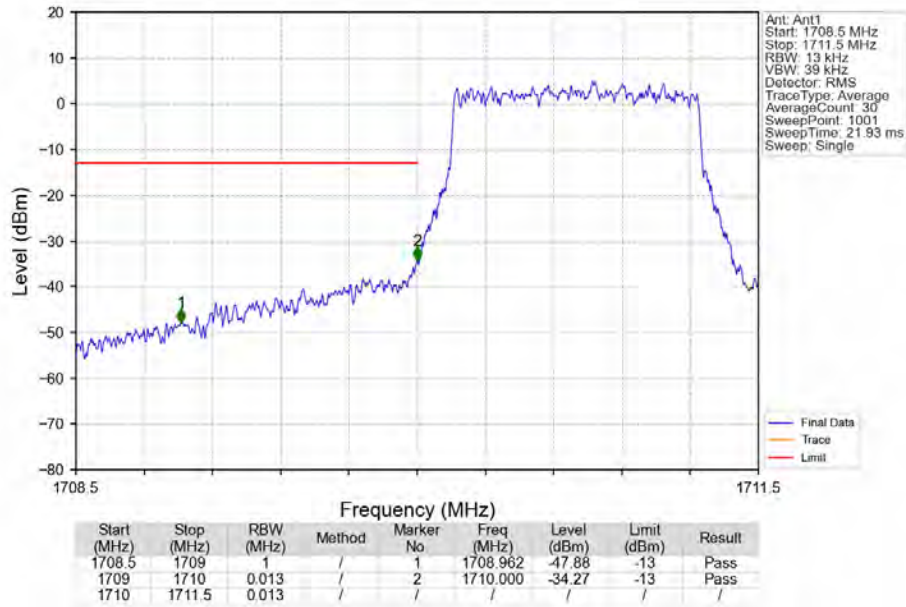
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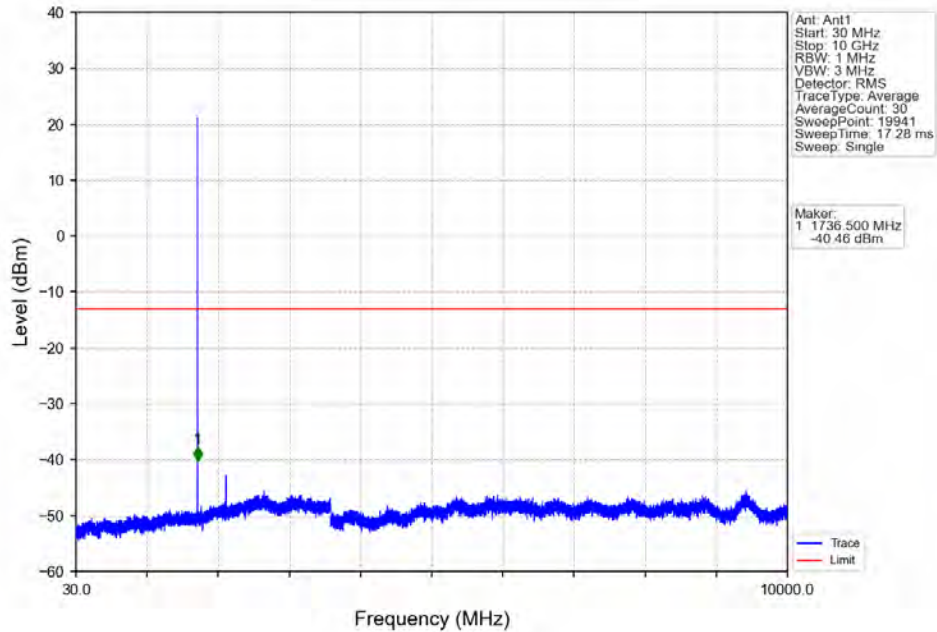
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Band4 1.4MHz 16QAM MCH 1732.5MHz_RB 1_0 NTN



Band4 1.4MHz 16QAM MCH 1732.5MHz_RB 1_0 NTN



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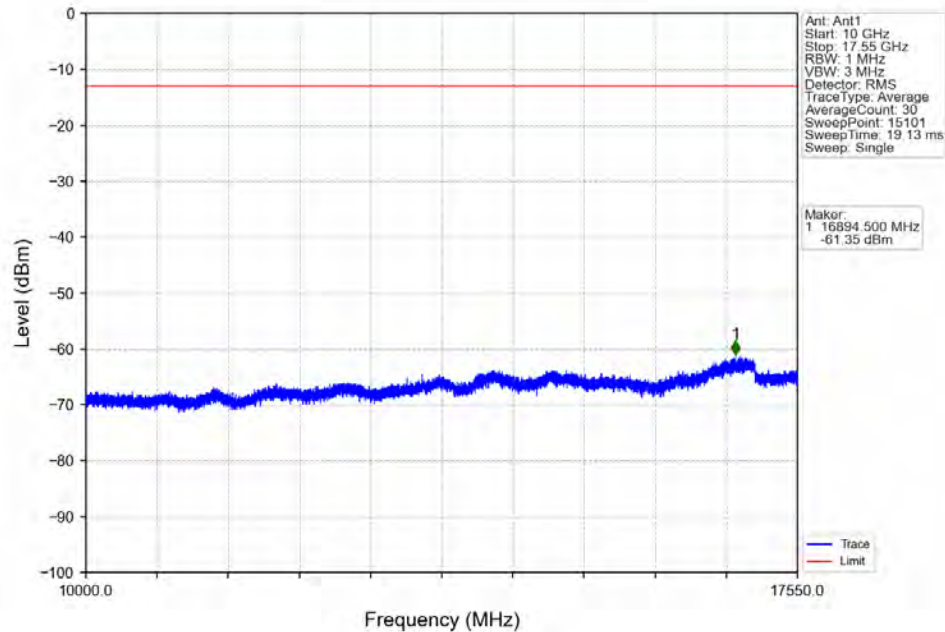
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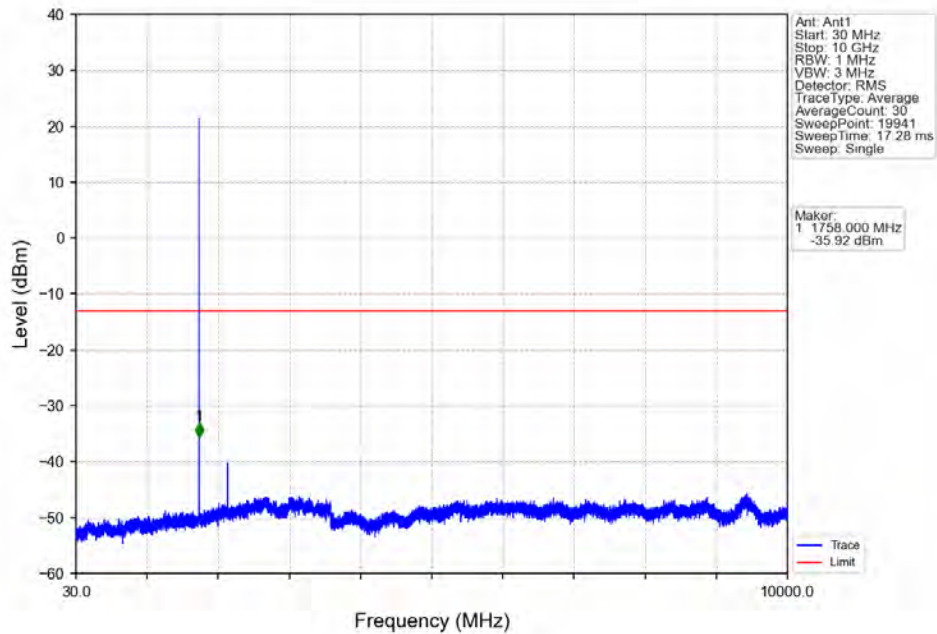
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Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_1_0_NTNV



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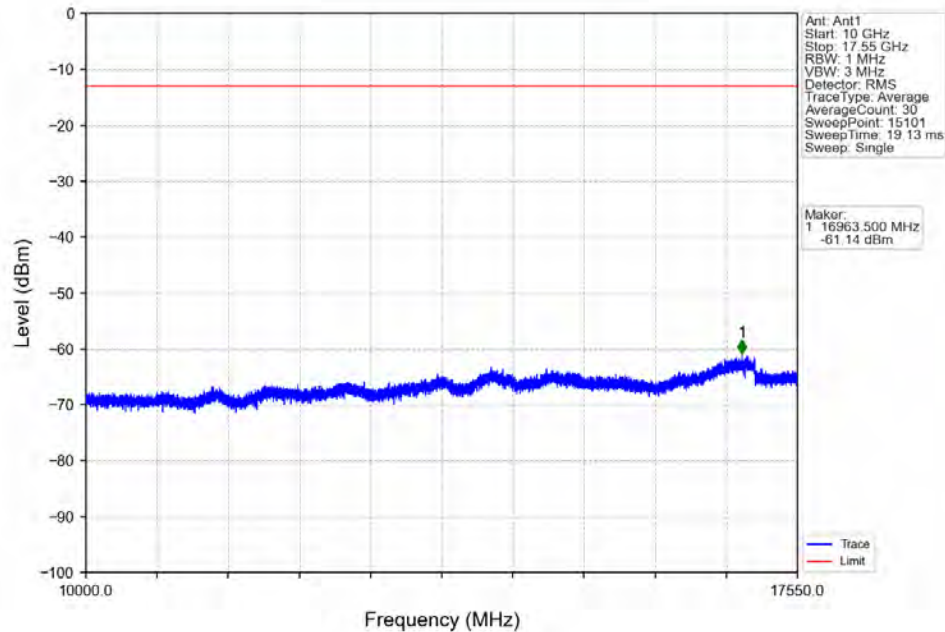
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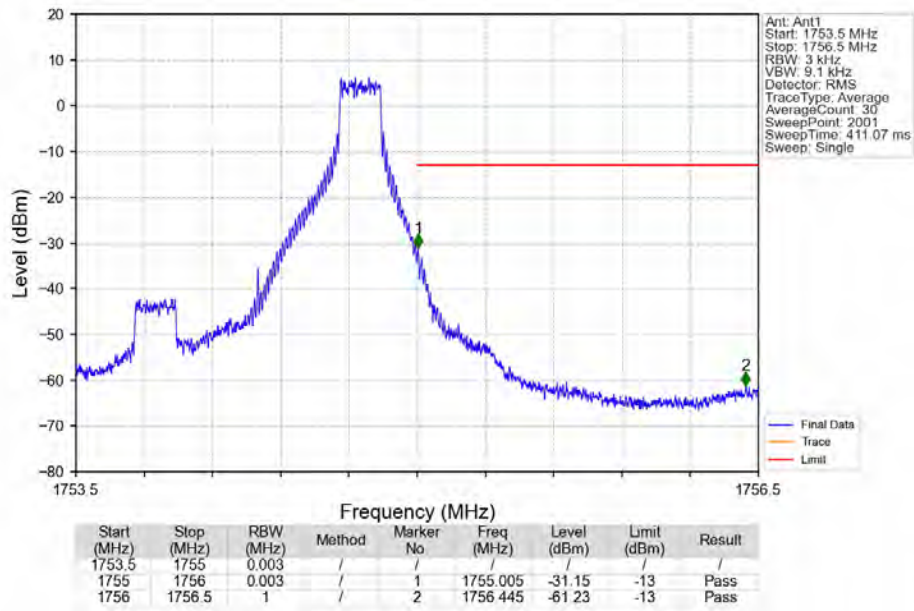
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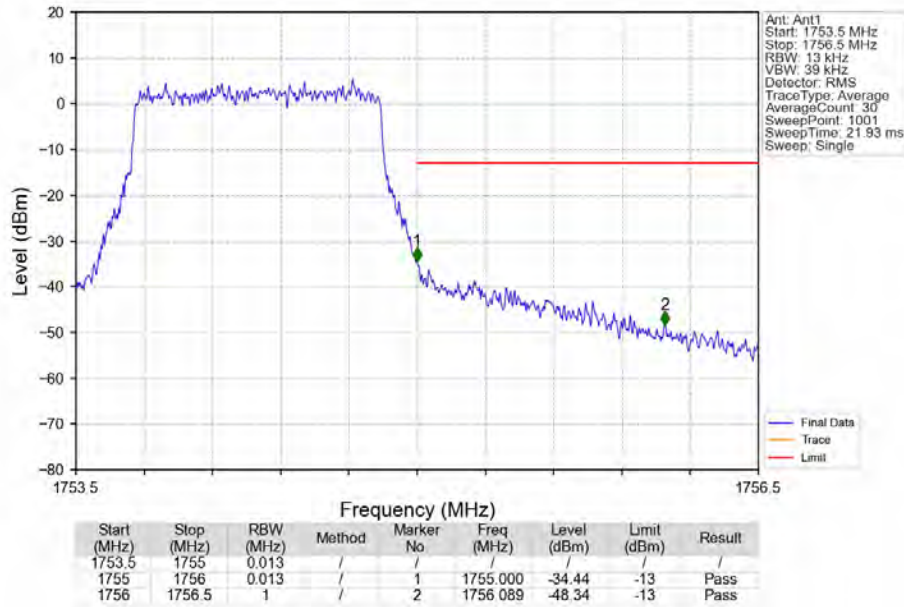
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5.2 B4_3MHz

5.2.1 Test Result

Band: 4 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	1711.5	1	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
	1753.5	1	0	Refer To Test Graph		Pass
			14	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
16QAM	1711.5	1	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
	1753.5	1	0	Refer To Test Graph		Pass
			14	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass



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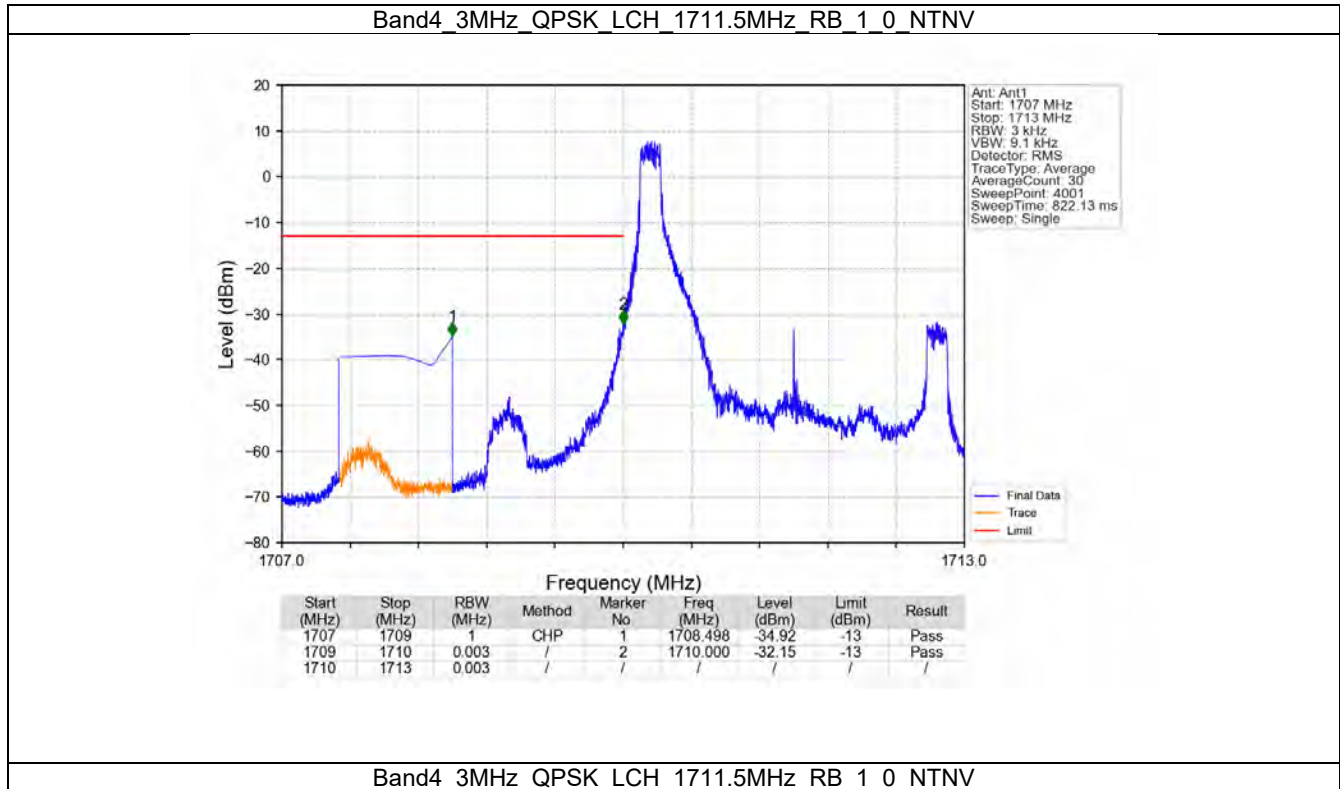
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5.2.2 Test Graph



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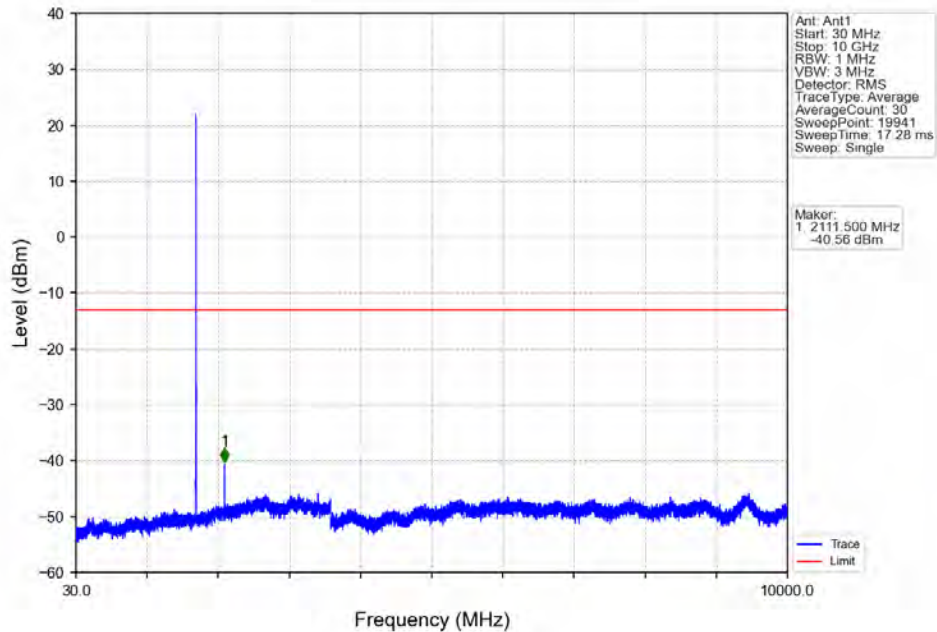
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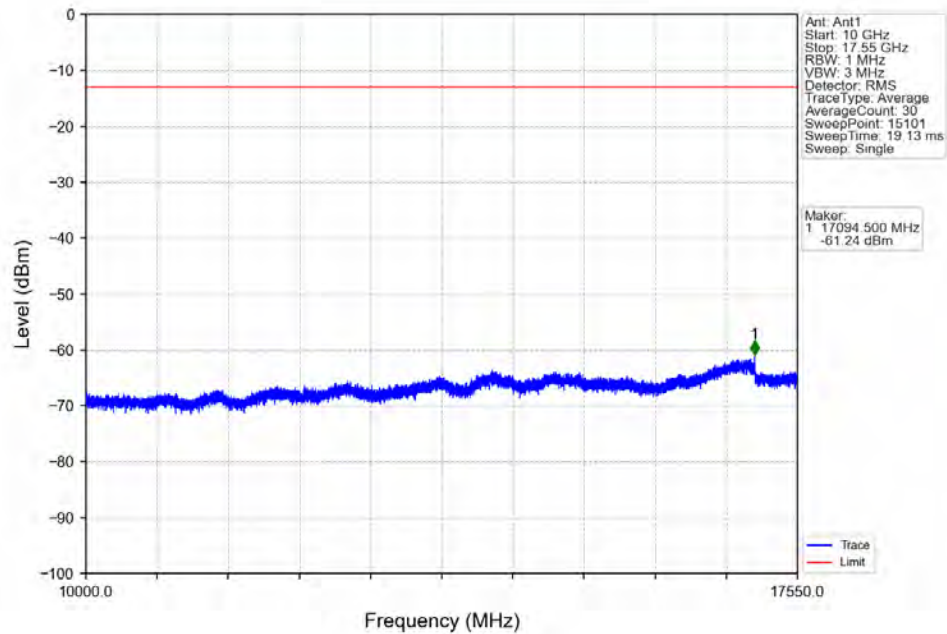
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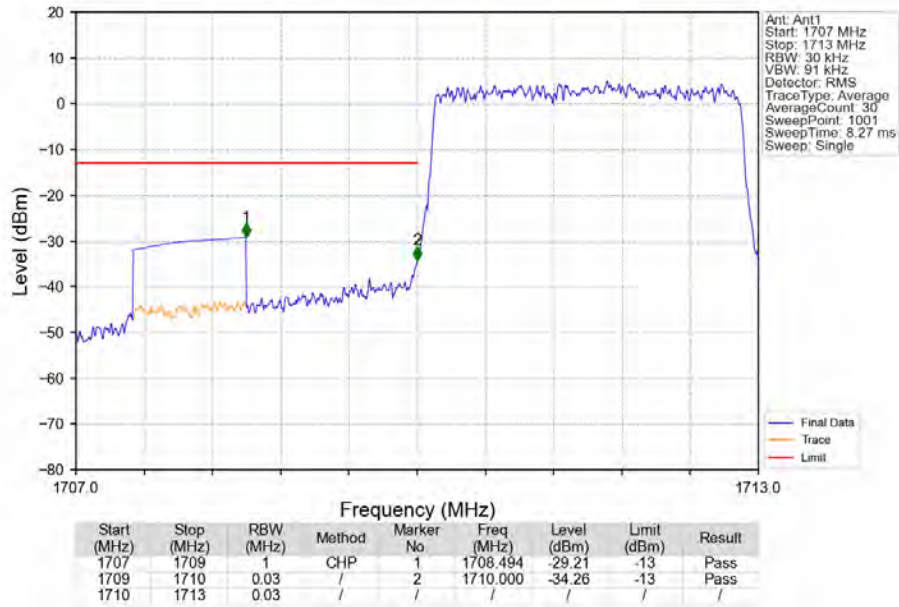
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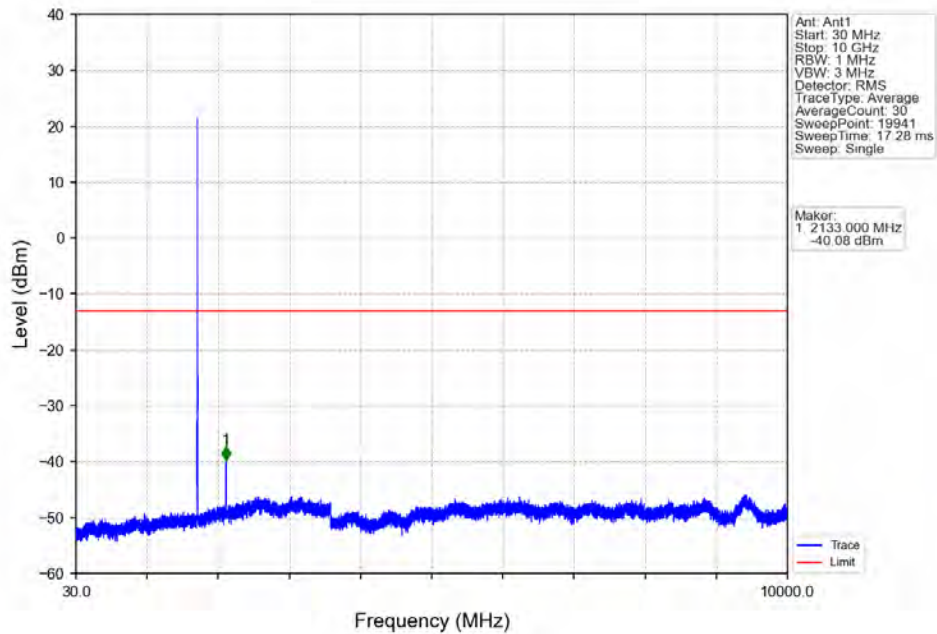
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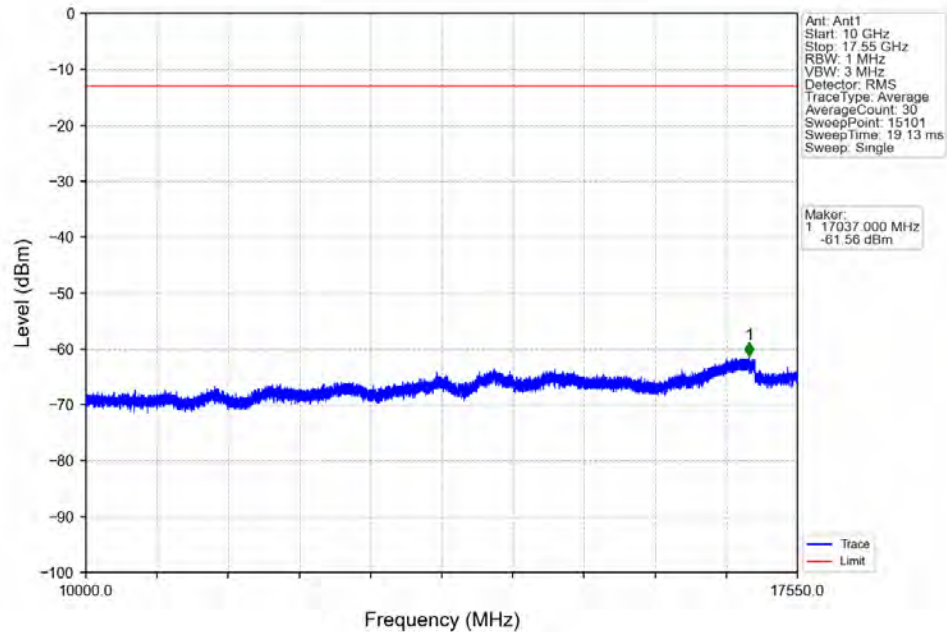
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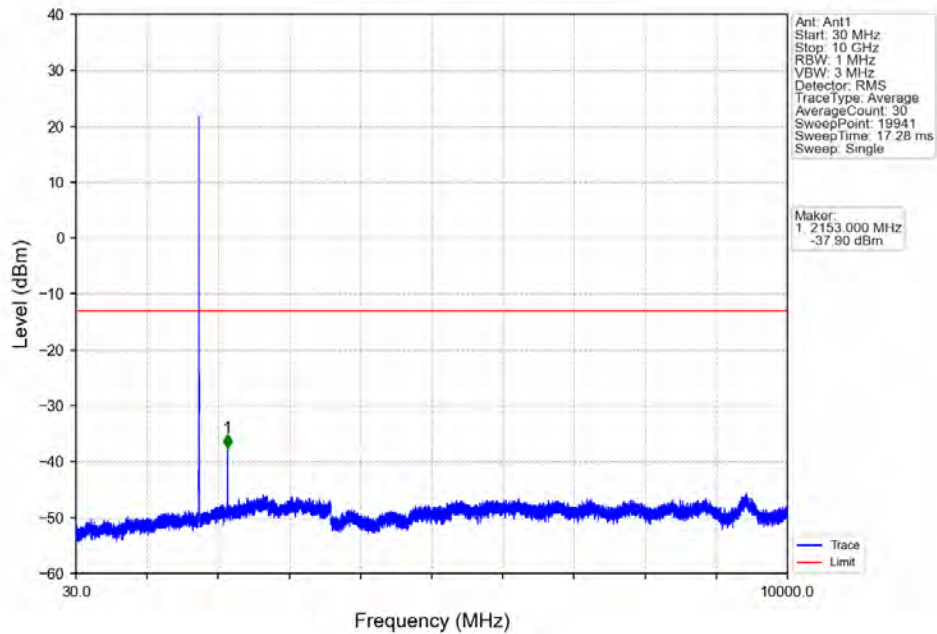
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Band4_3MHz_QPSK_HCH_1753.5MHz_RB_1_0_NTNV



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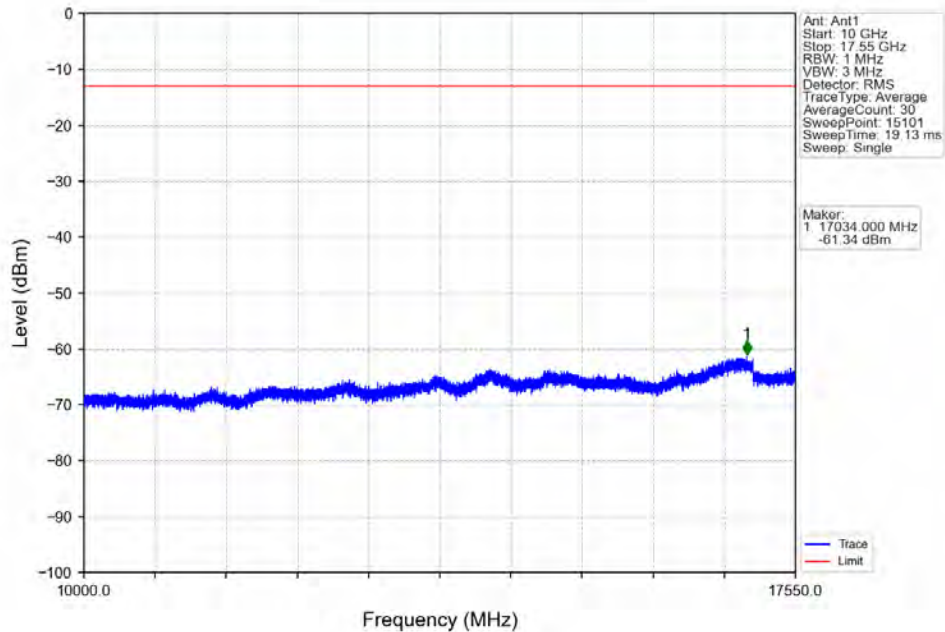
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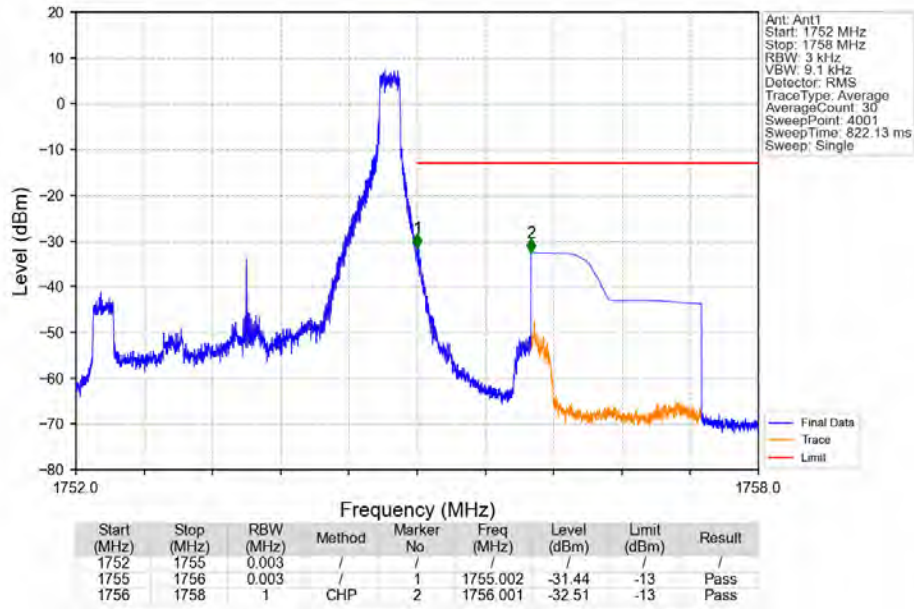
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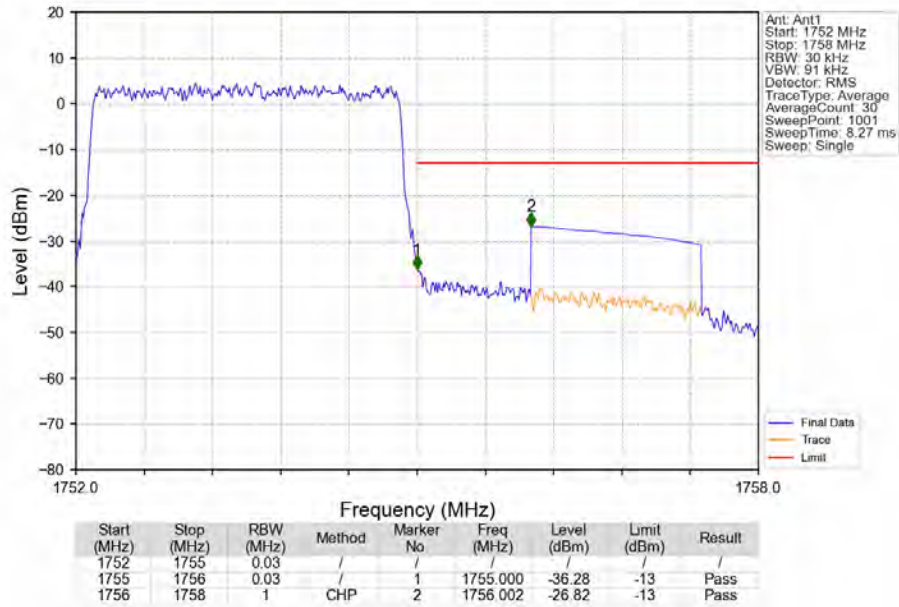
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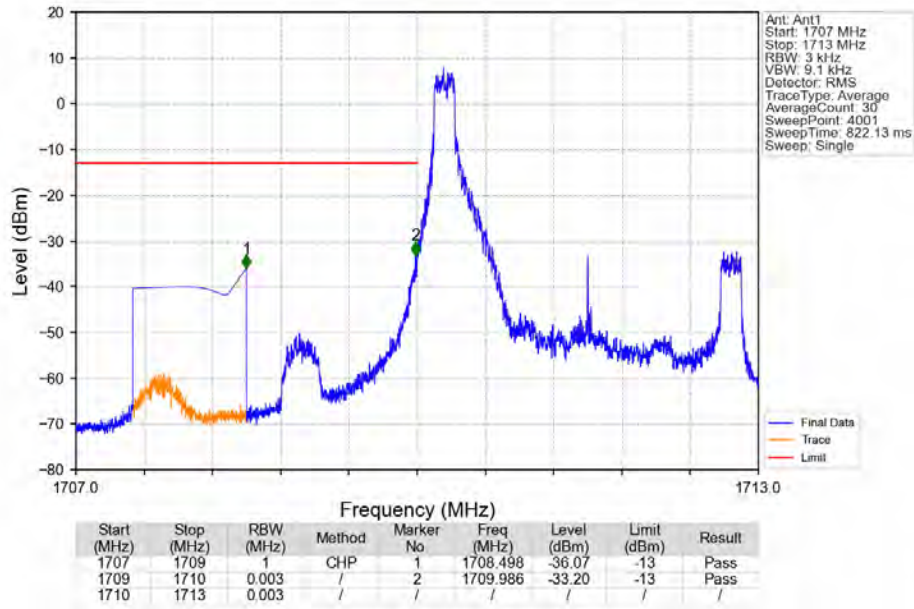
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Band4_3MHz_16QAM_LCH_1711.5MHz_RB_1_0_NTNV



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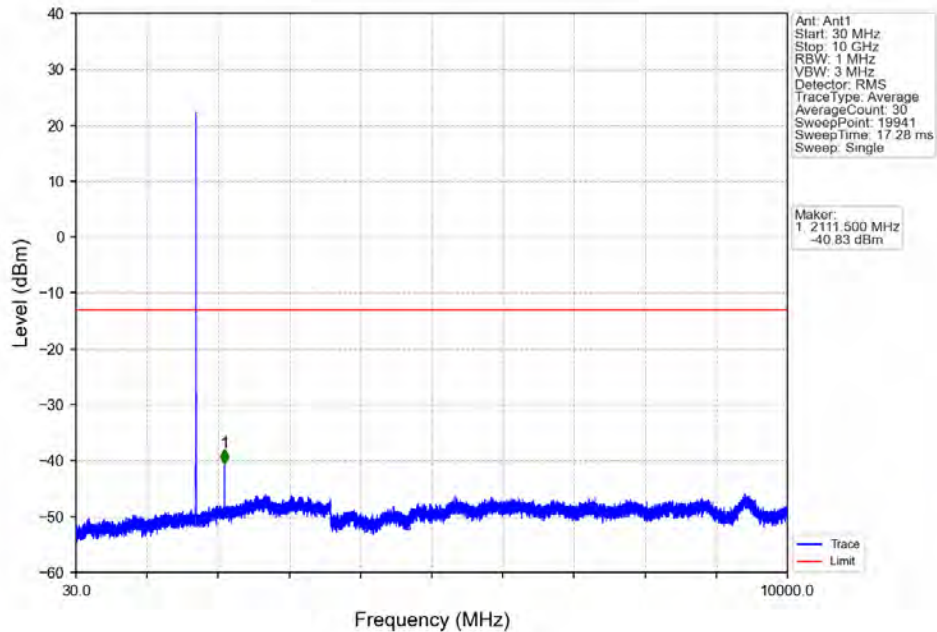
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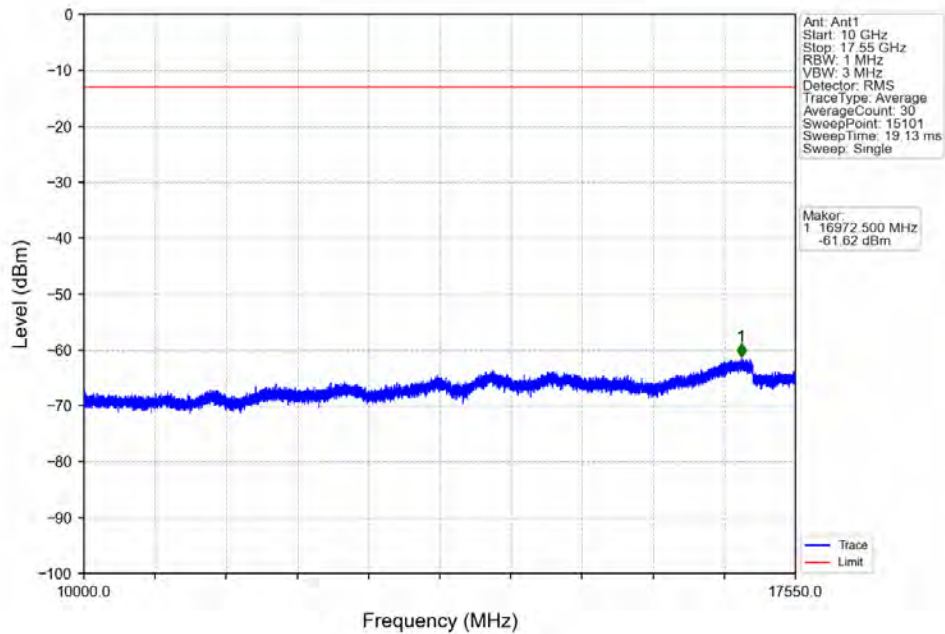
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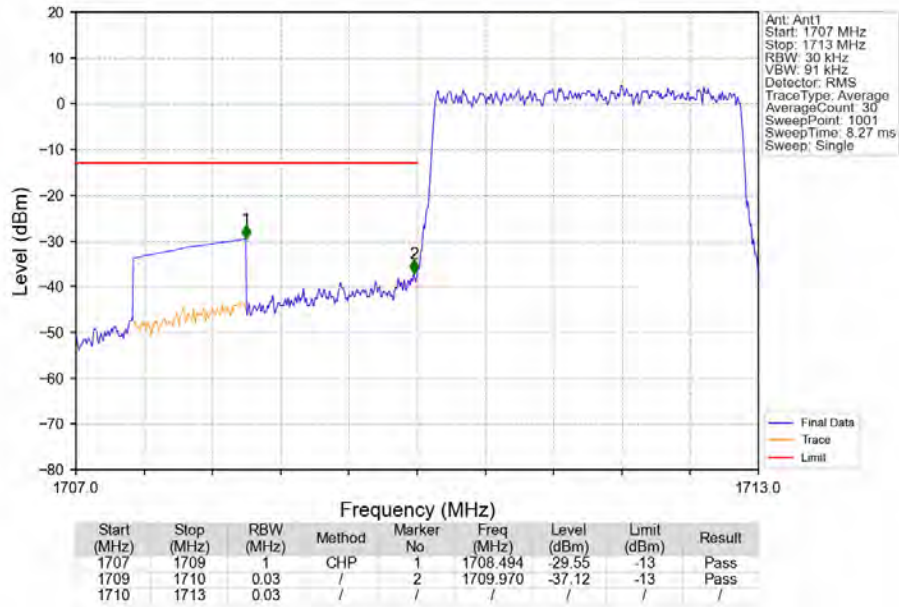
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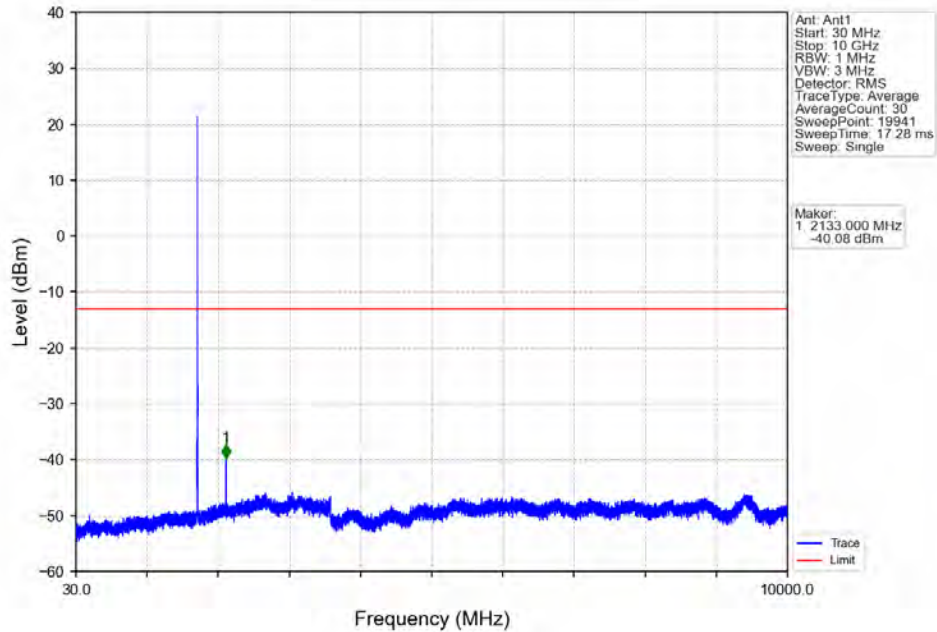
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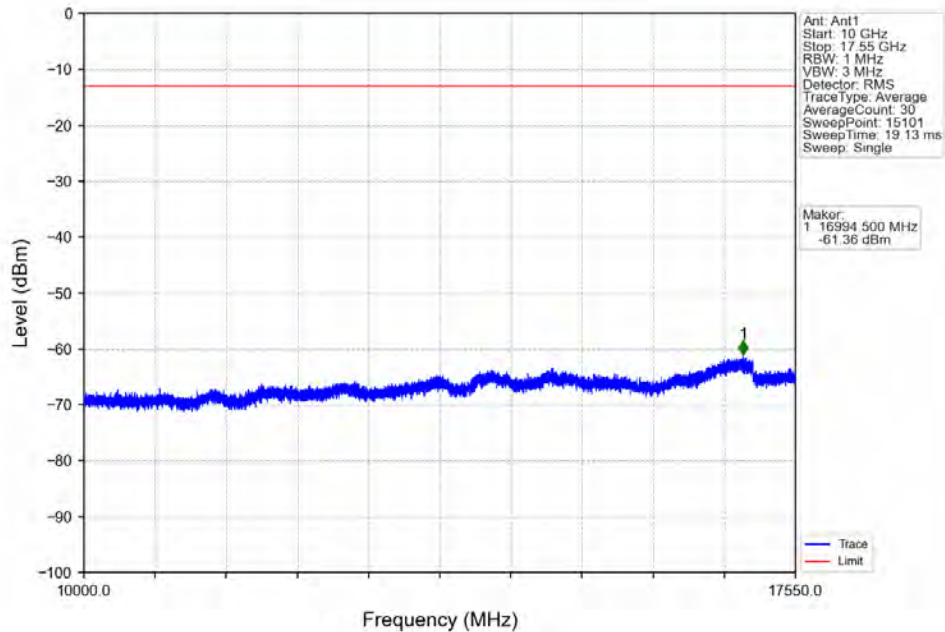
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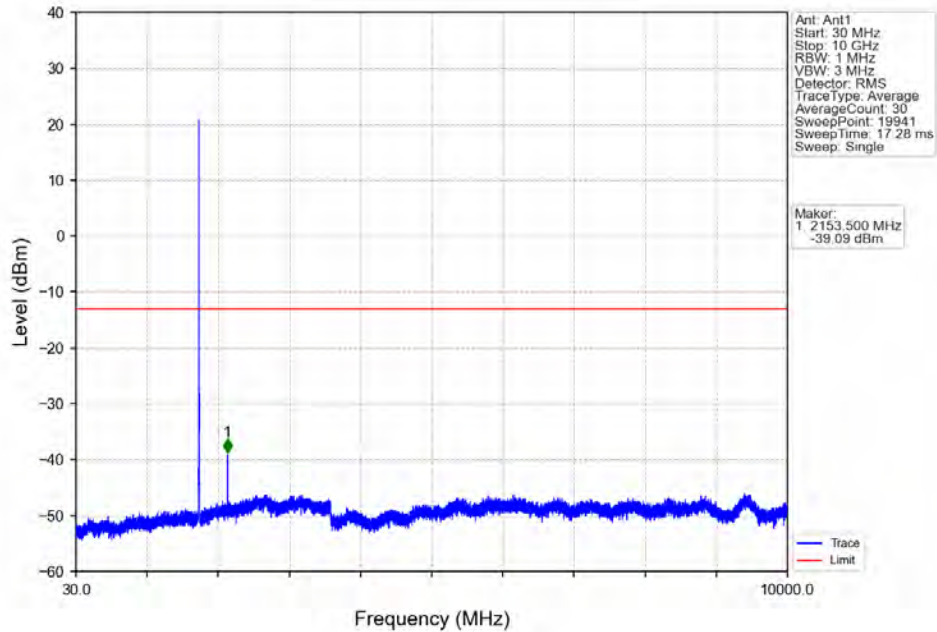
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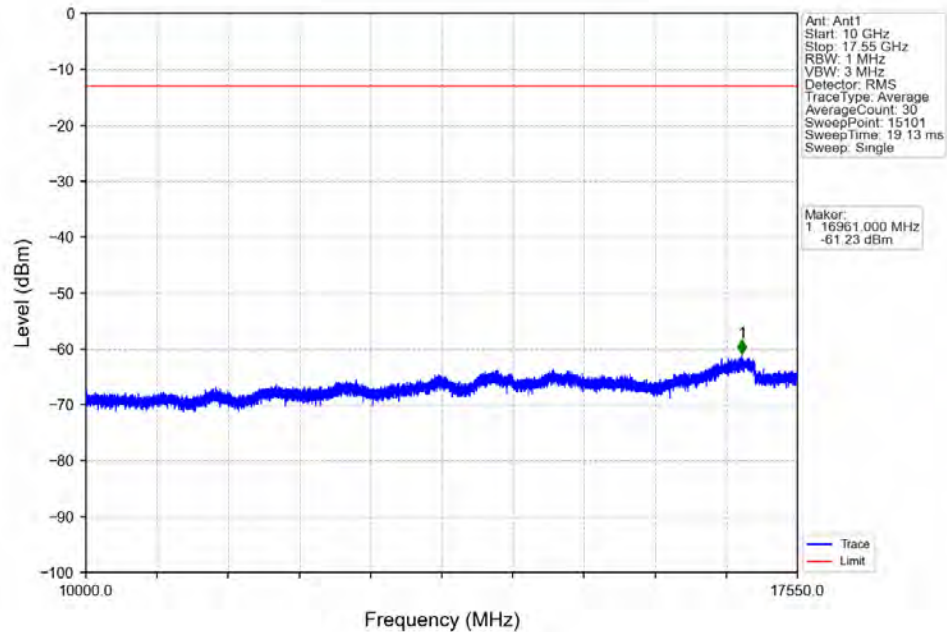
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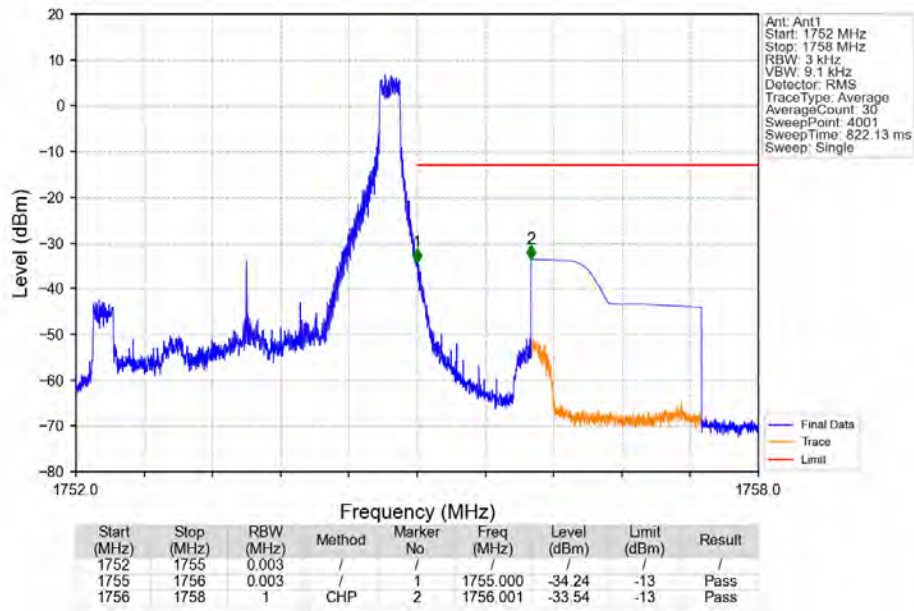
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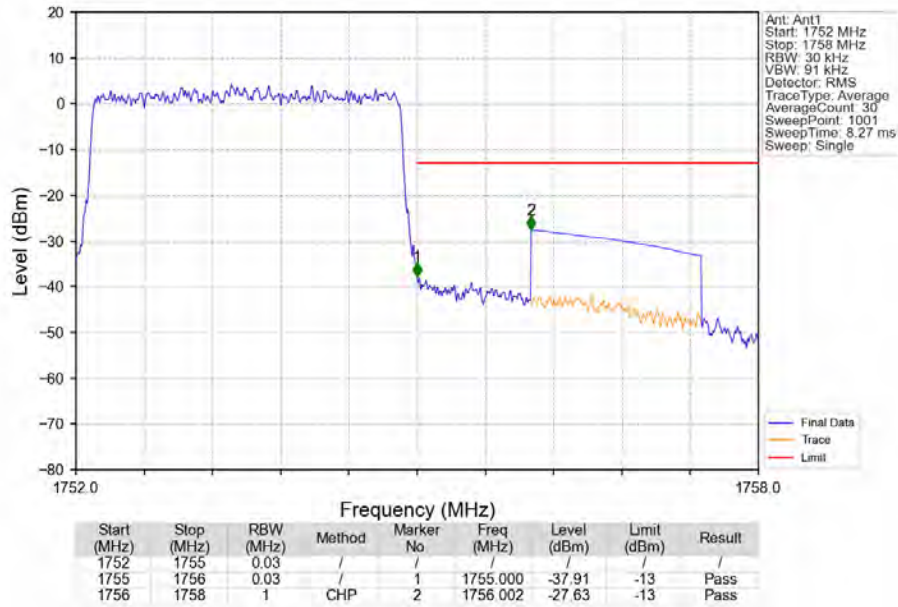
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5.3 B4_5MHz

5.3.1 Test Result

Band: 4 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	1712.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
	1752.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
16QAM	1712.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
	1752.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass



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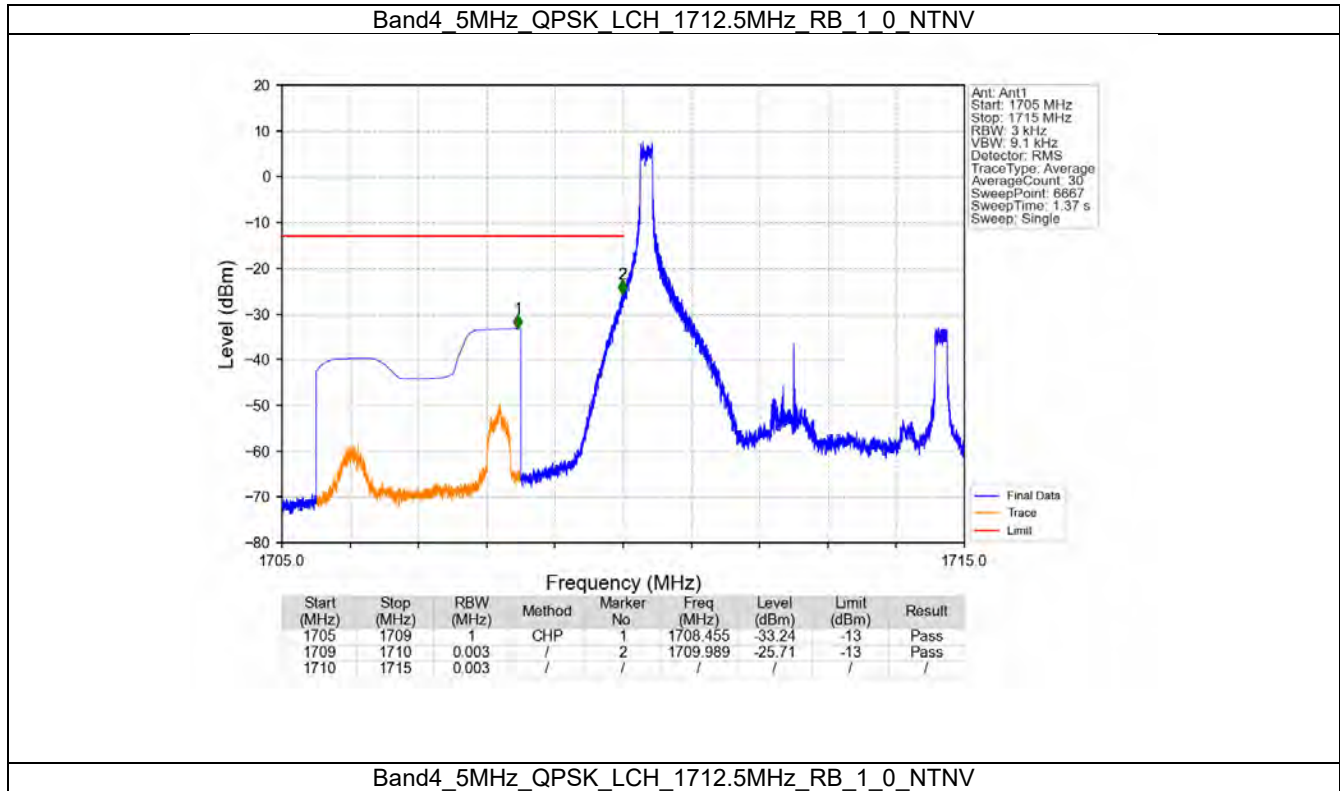
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5.3.2 Test Graph



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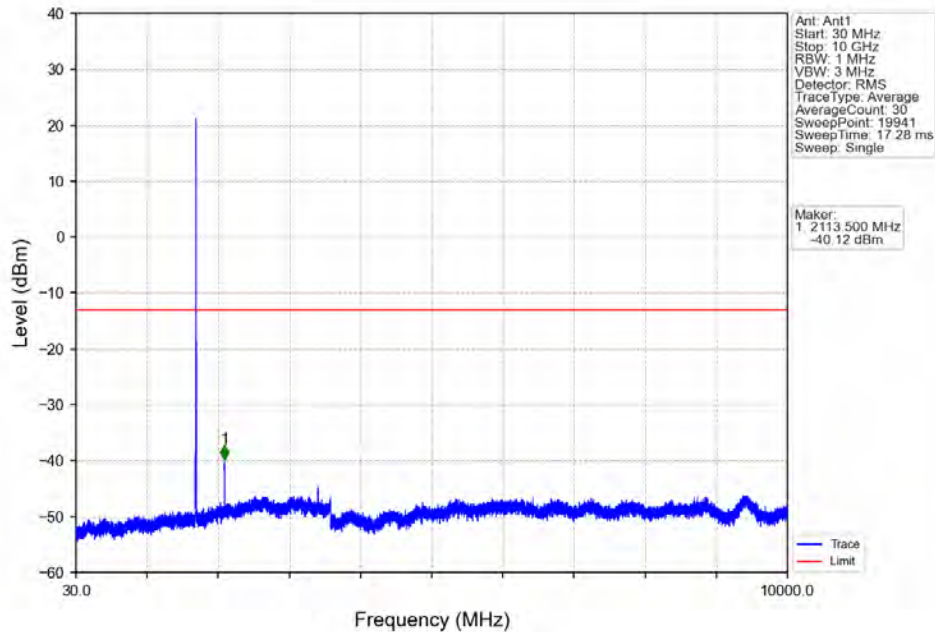
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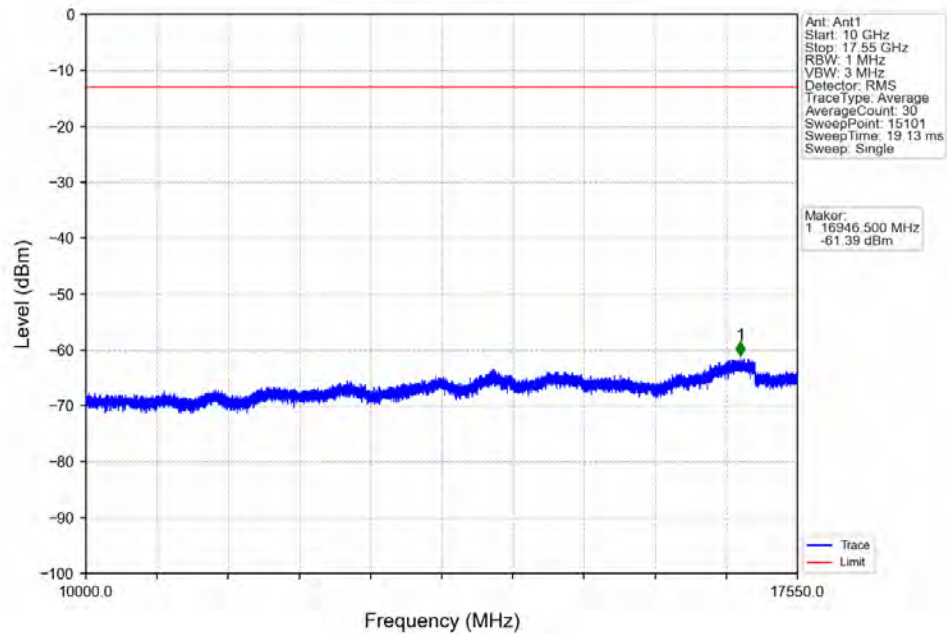
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Band4_5MHz_QPSK_LCH_1712.5MHz_RB_1_0_NTNV



Band4_5MHz_QPSK_LCH_1712.5MHz_RB_25_0_NTNV



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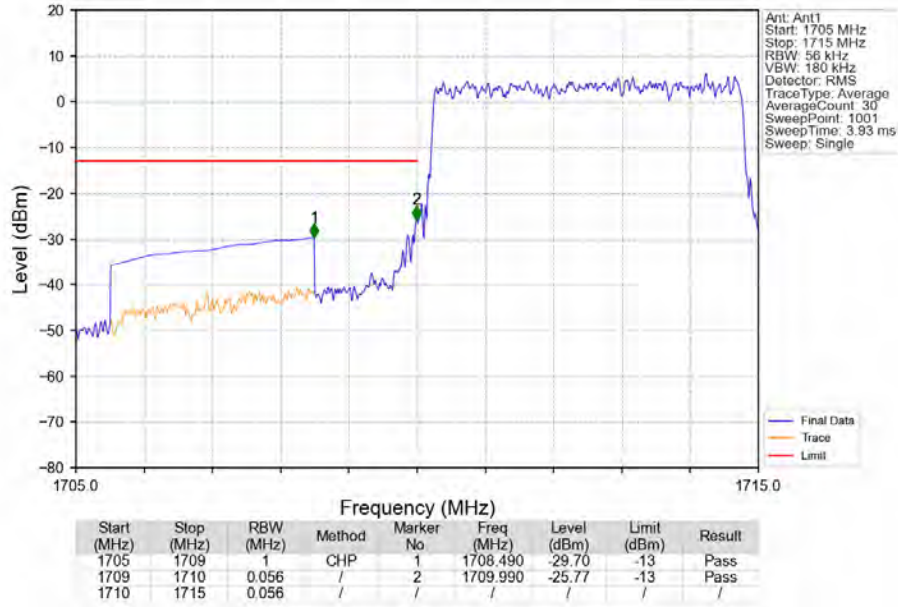
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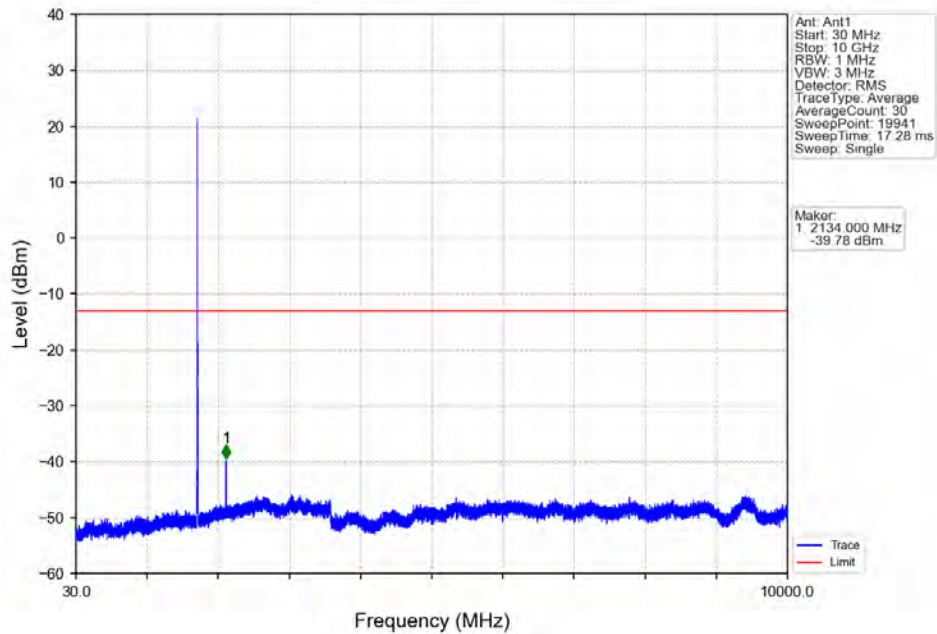
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Band4_5MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



Band4_5MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



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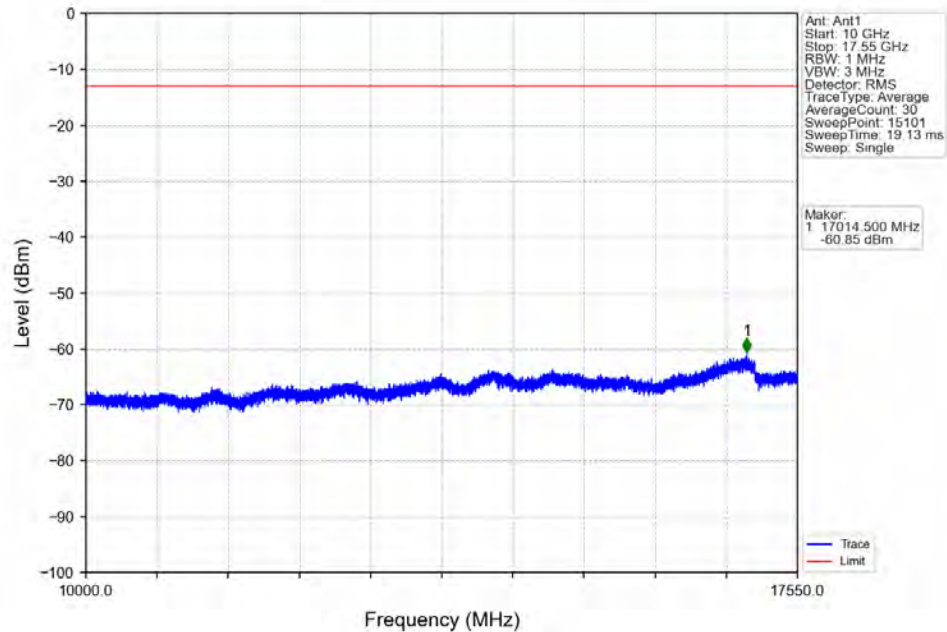
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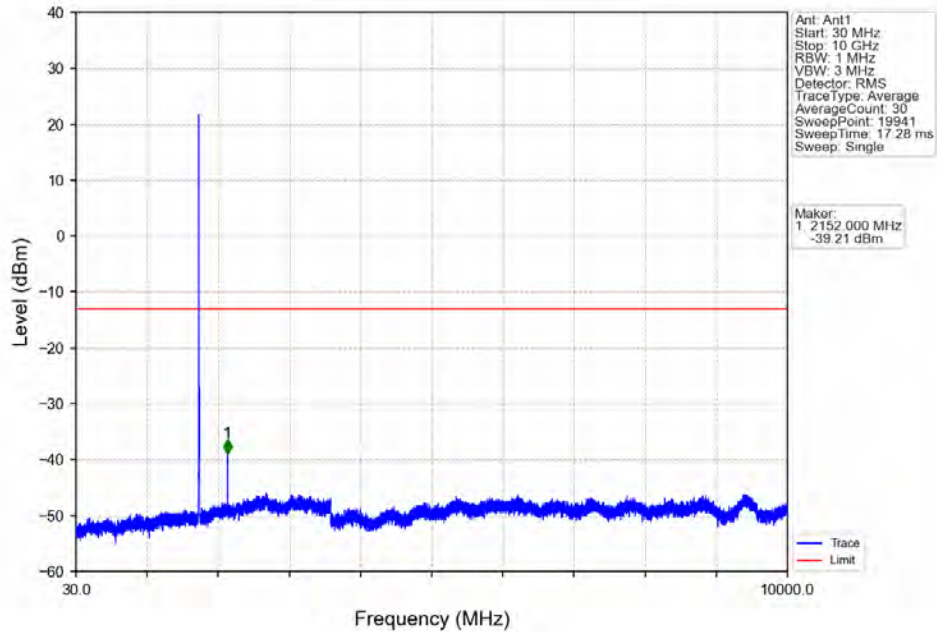
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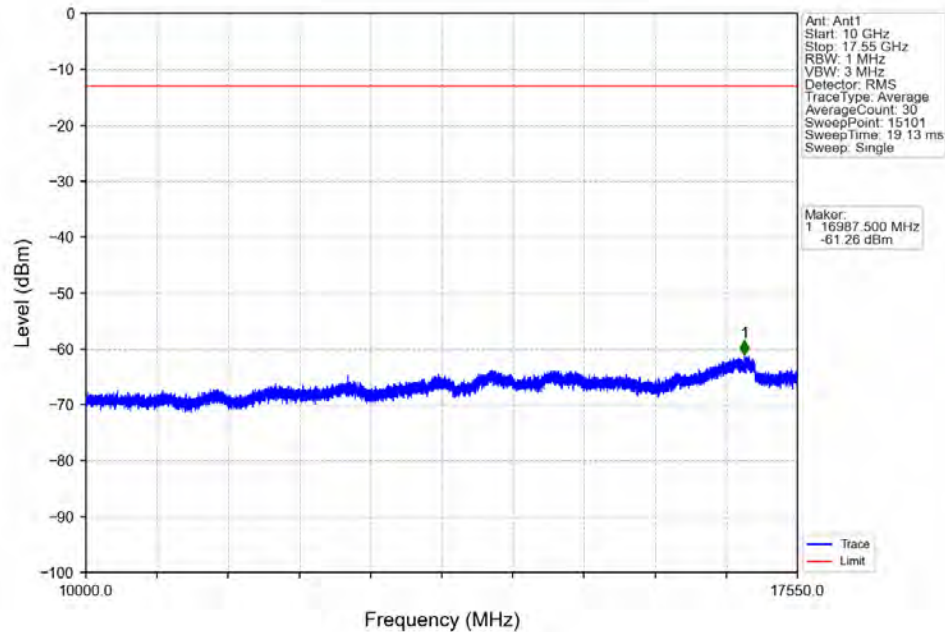
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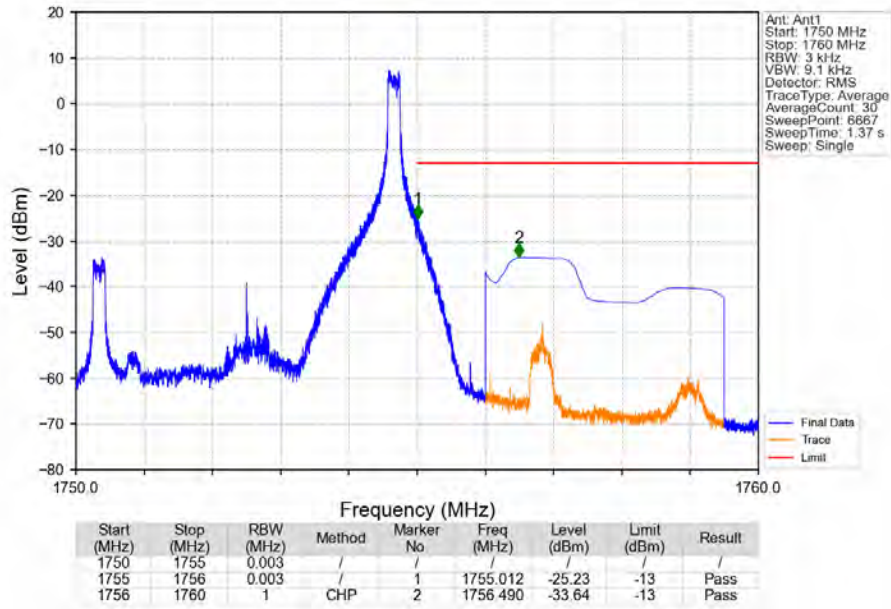
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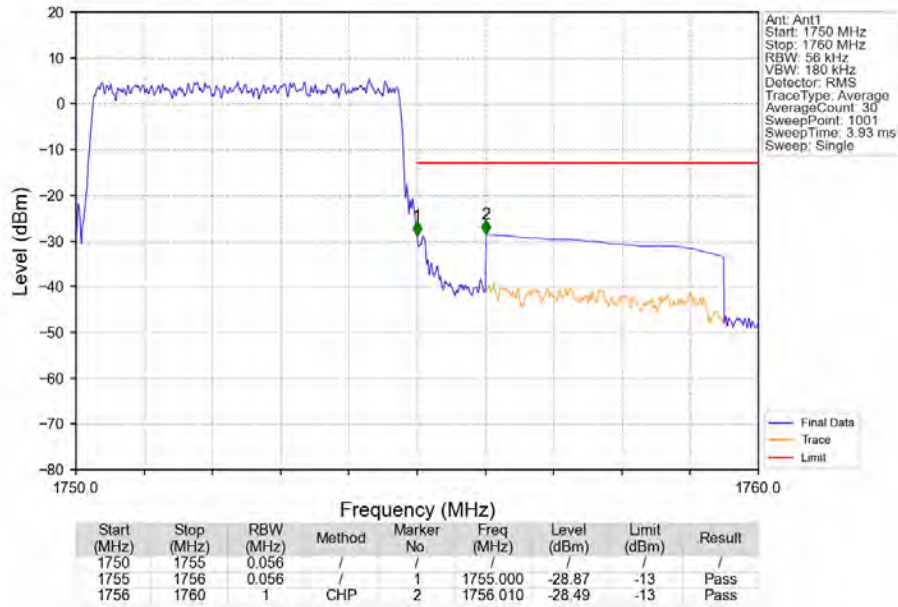
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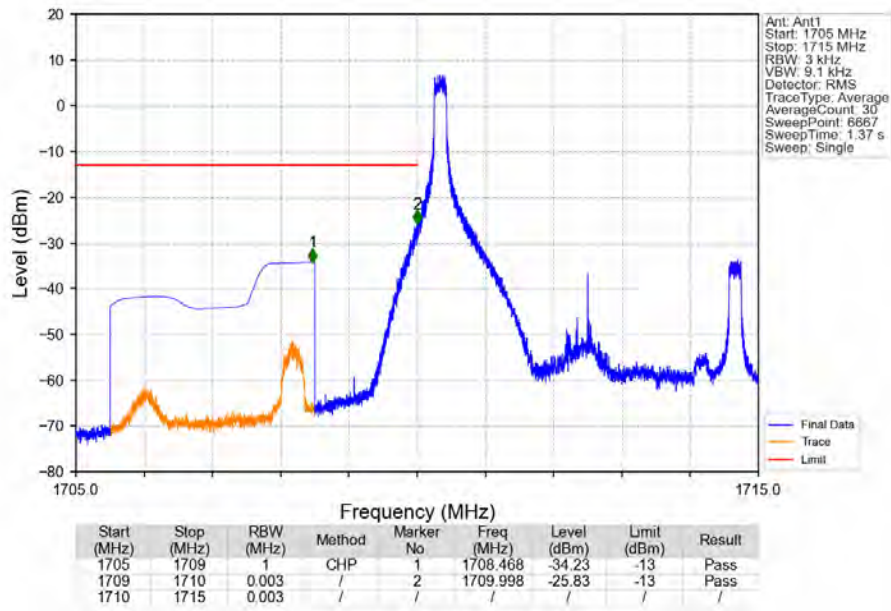
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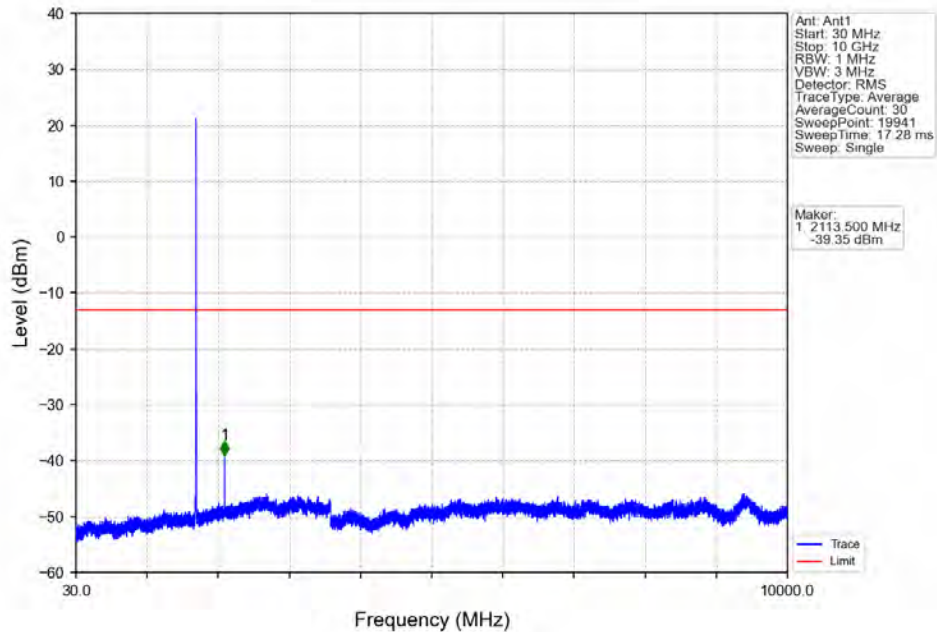
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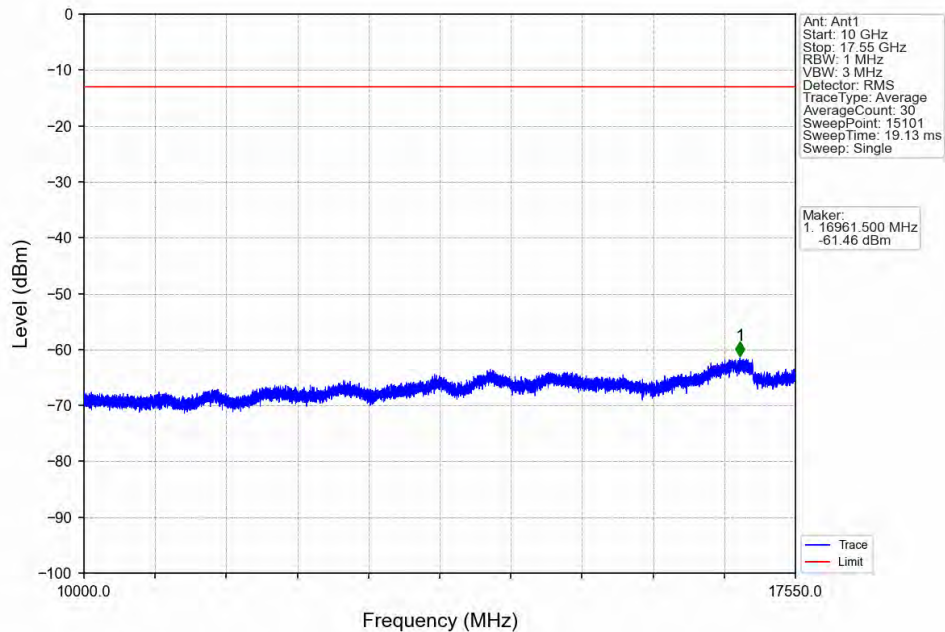
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Band4_5MHz_16QAM_LCH_1712.5MHz_RB_1_0_NTNV



Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV



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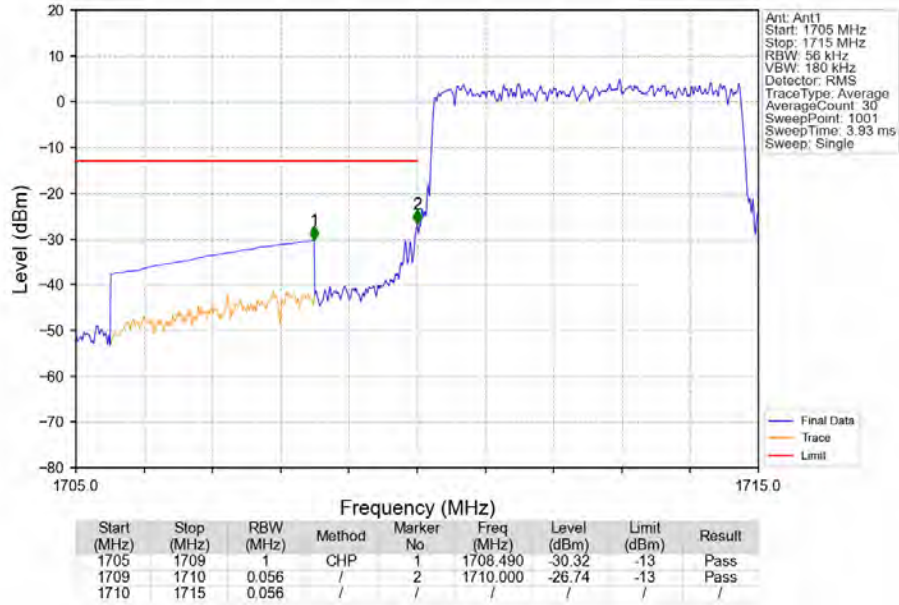
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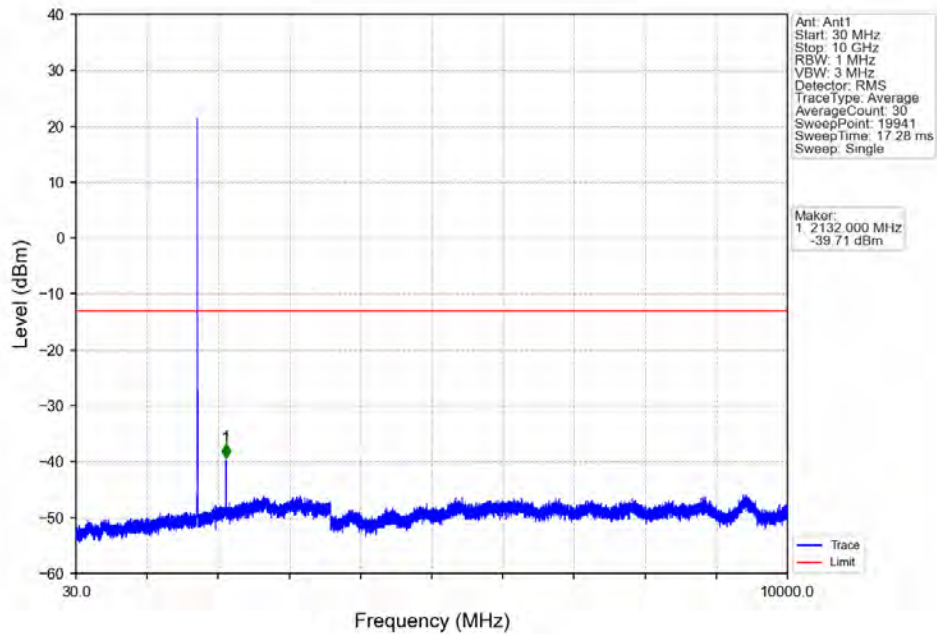
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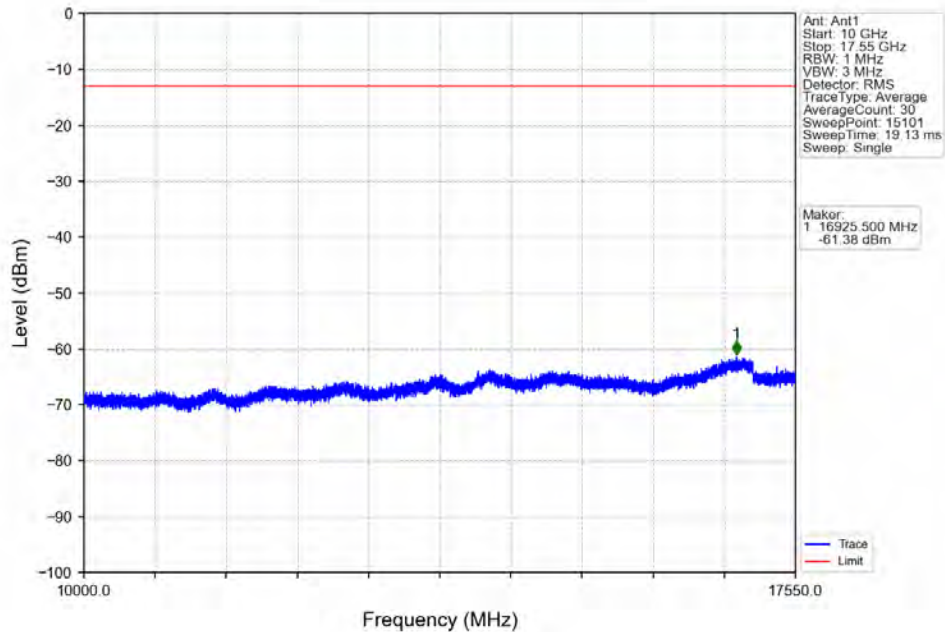
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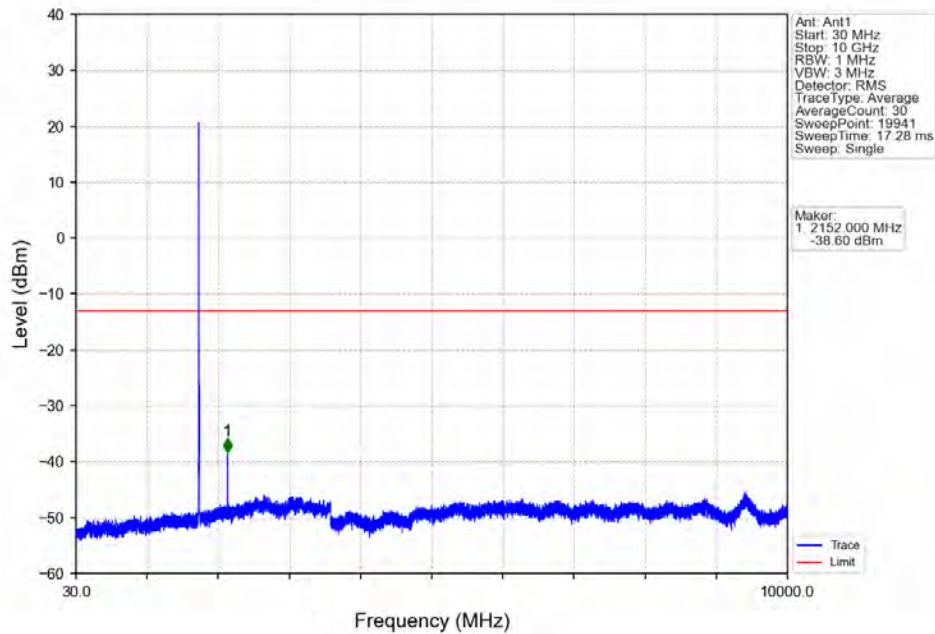
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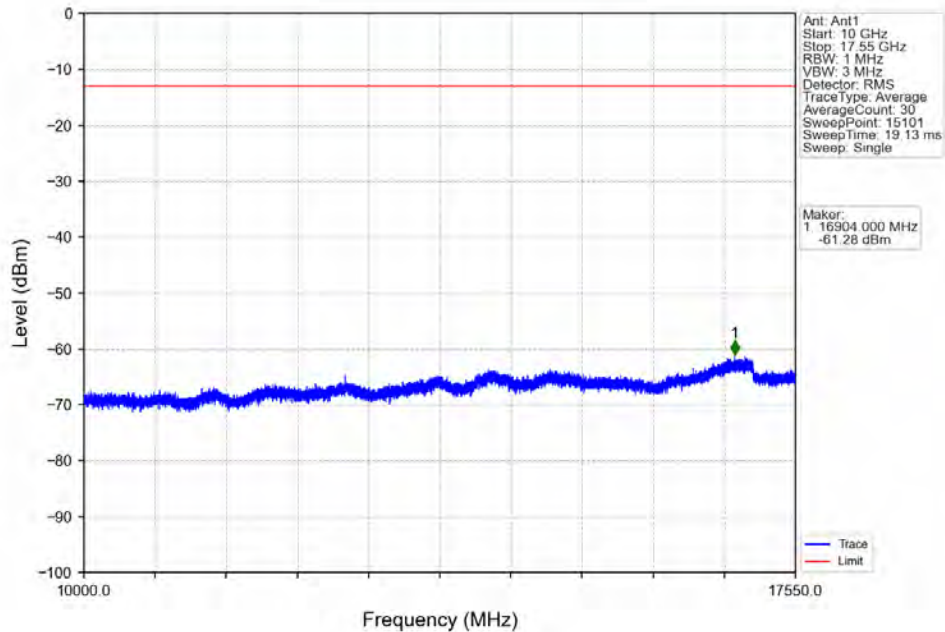
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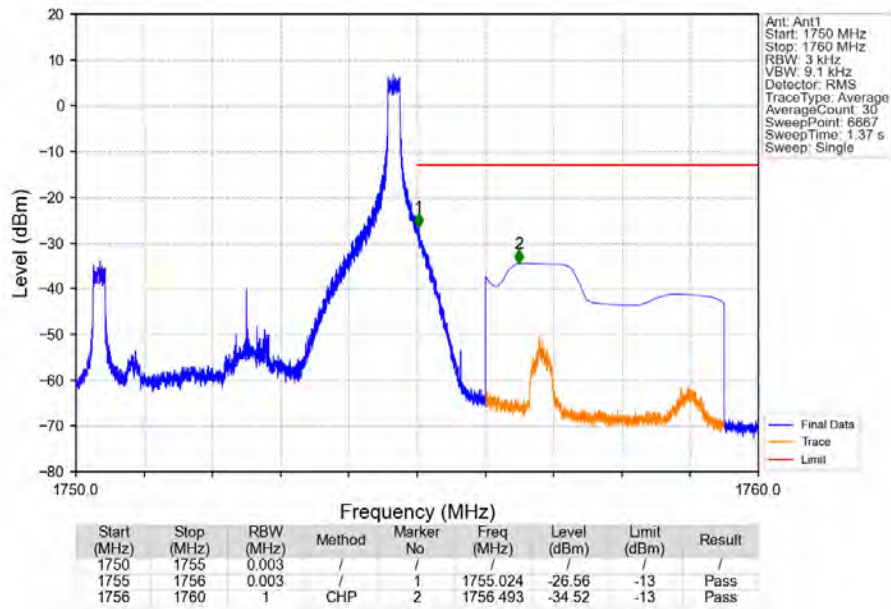
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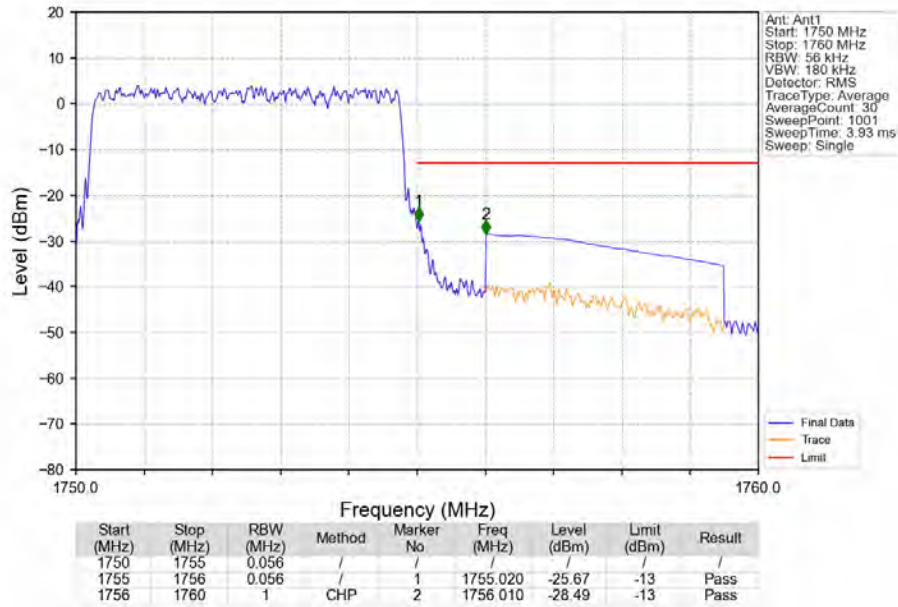
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5.4 B4_10MHz

5.4.1 Test Result

Band: 4 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	1715	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
	1750	1	49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
16QAM	1715	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
	1750	1	49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass



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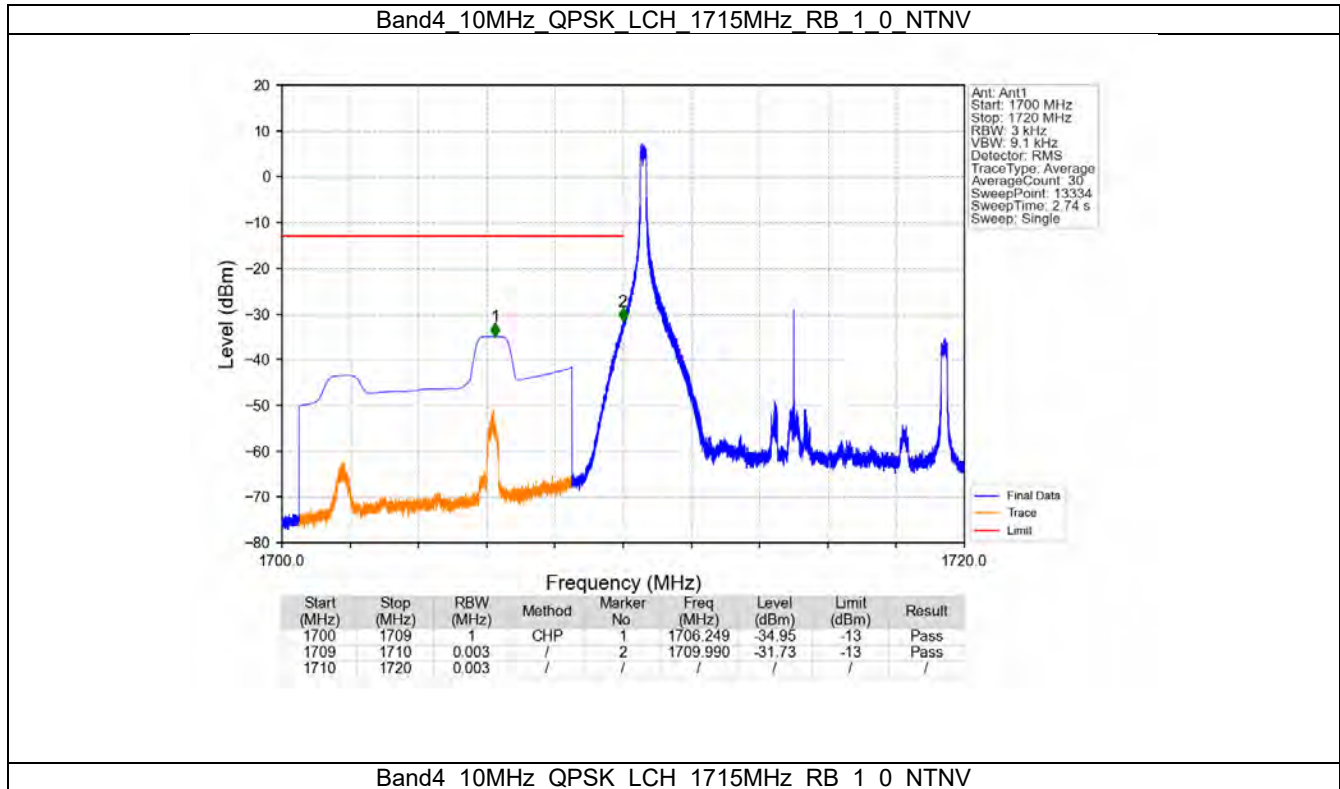
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5.4.2 Test Graph



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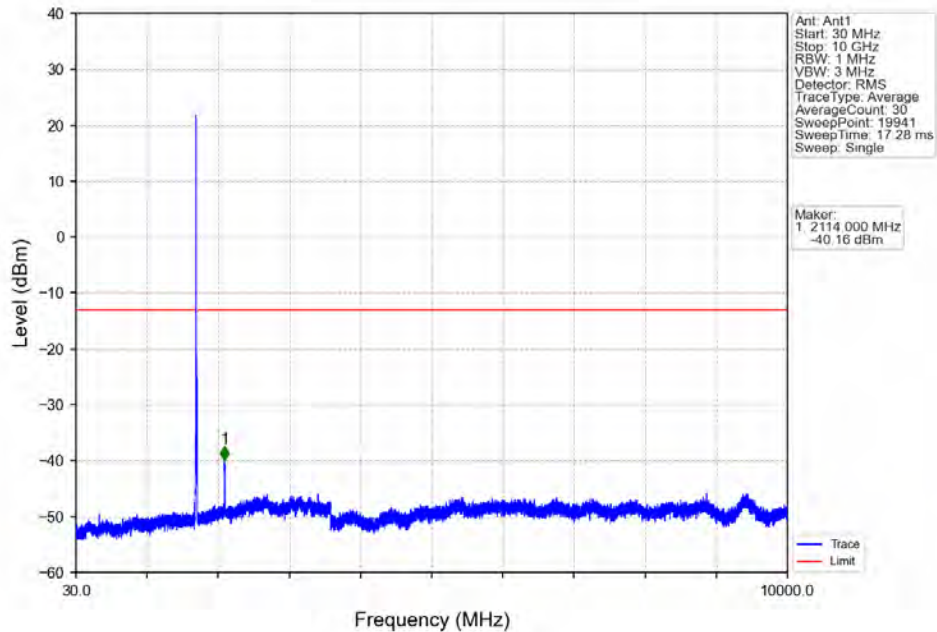
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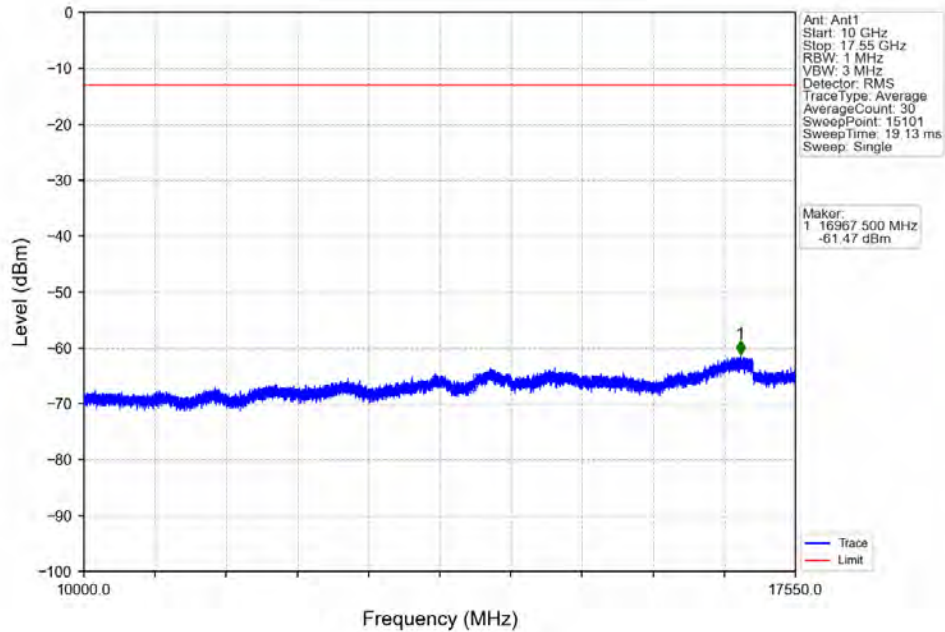
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Band4_10MHz_QPSK_LCH_1715MHz_RB_50_0_NTNV



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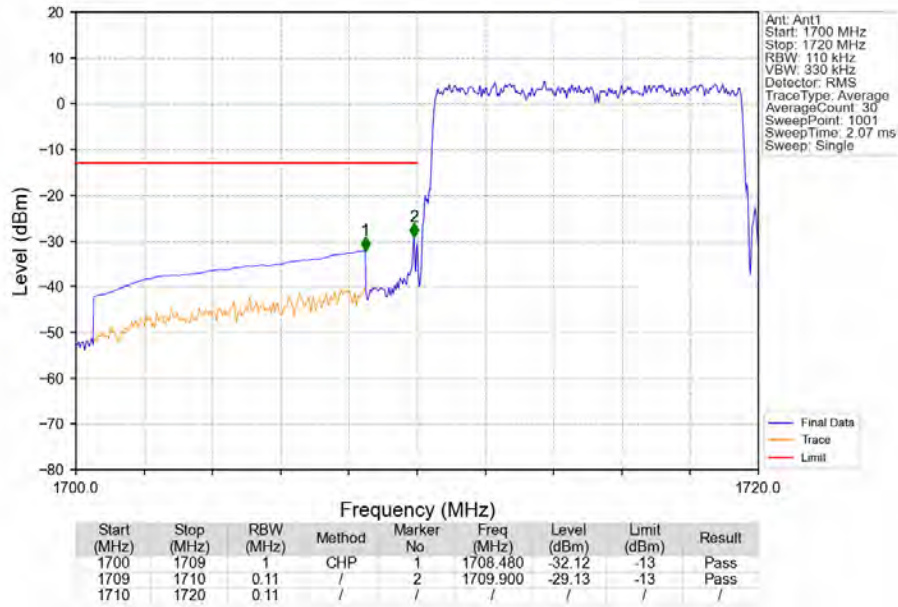
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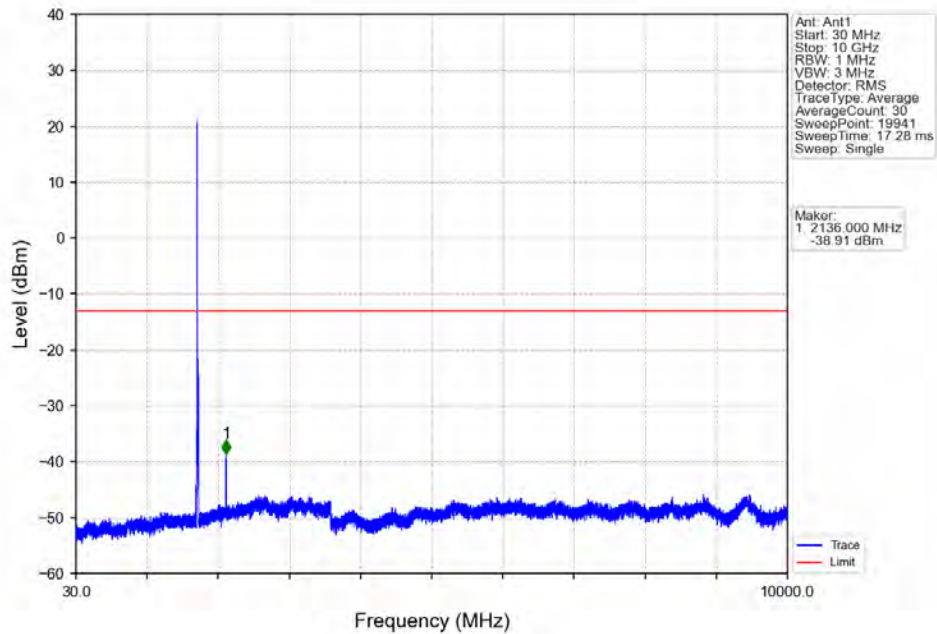
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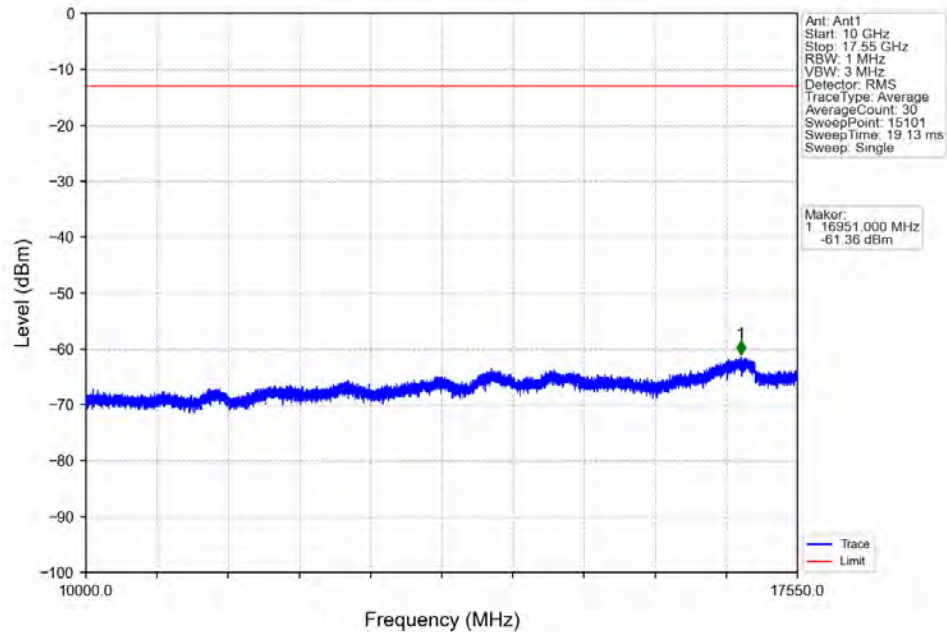
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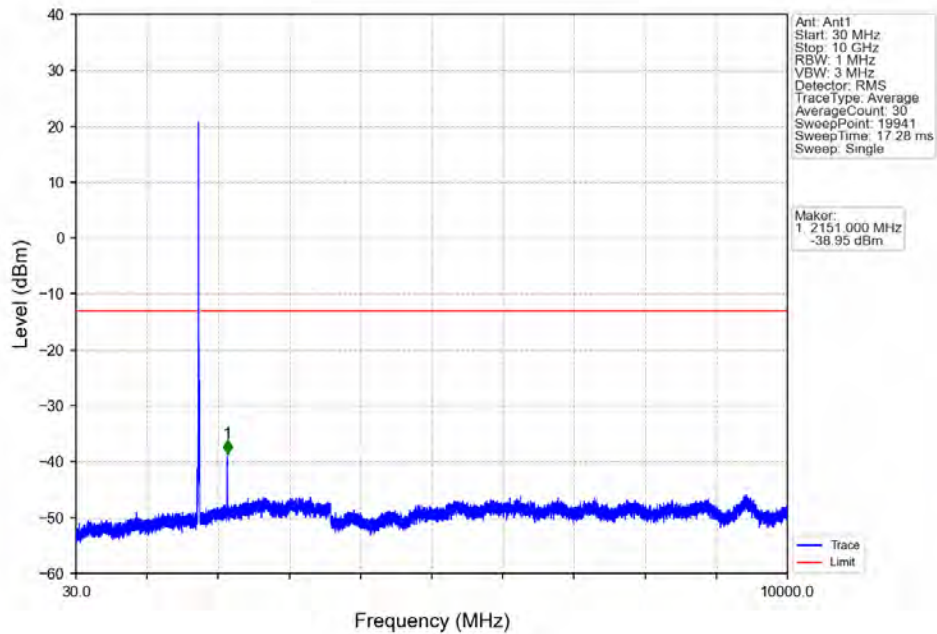
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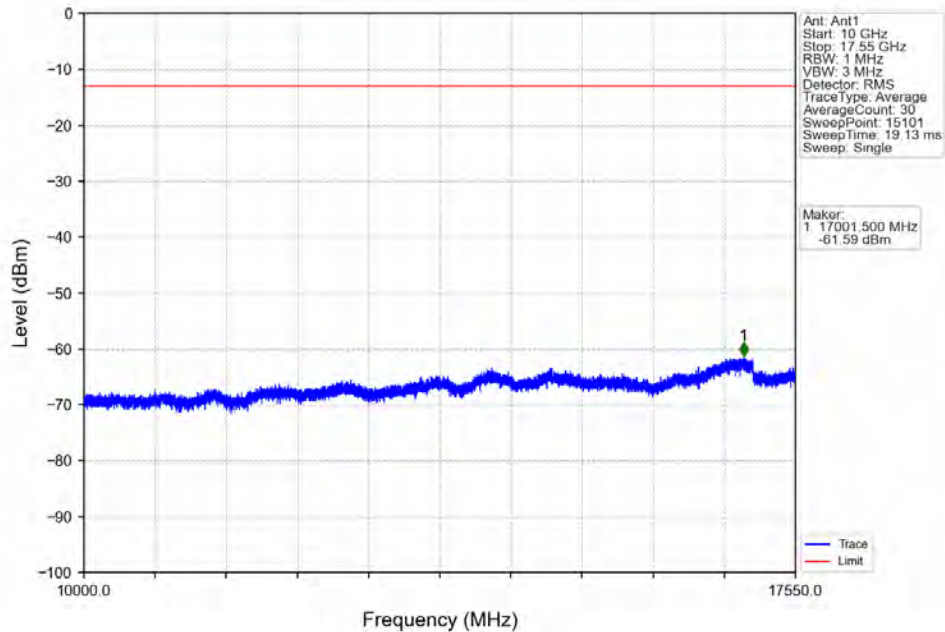
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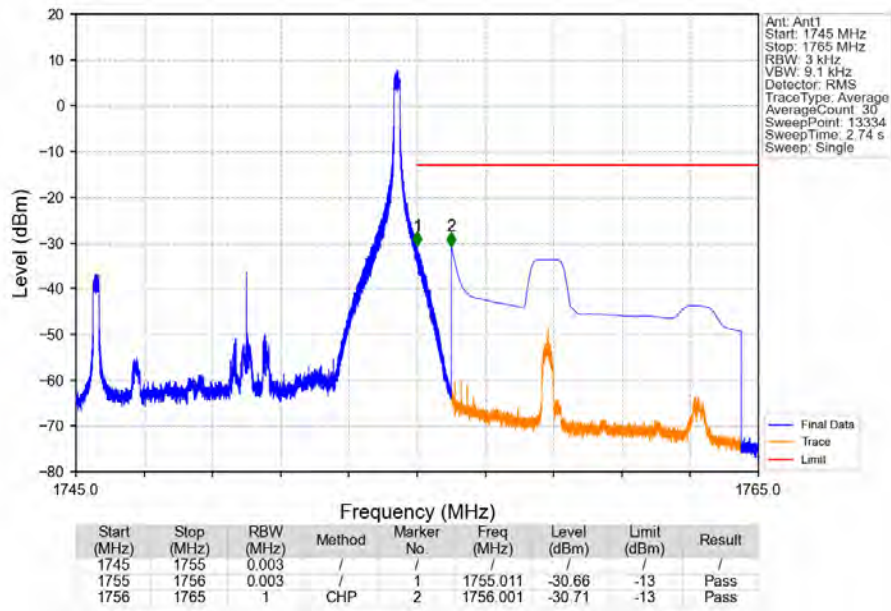
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Band4 10MHz QPSK HCH 1750MHz RB 1 49 NTN



Band4 10MHz QPSK HCH 1750MHz RB 50 0 NTN



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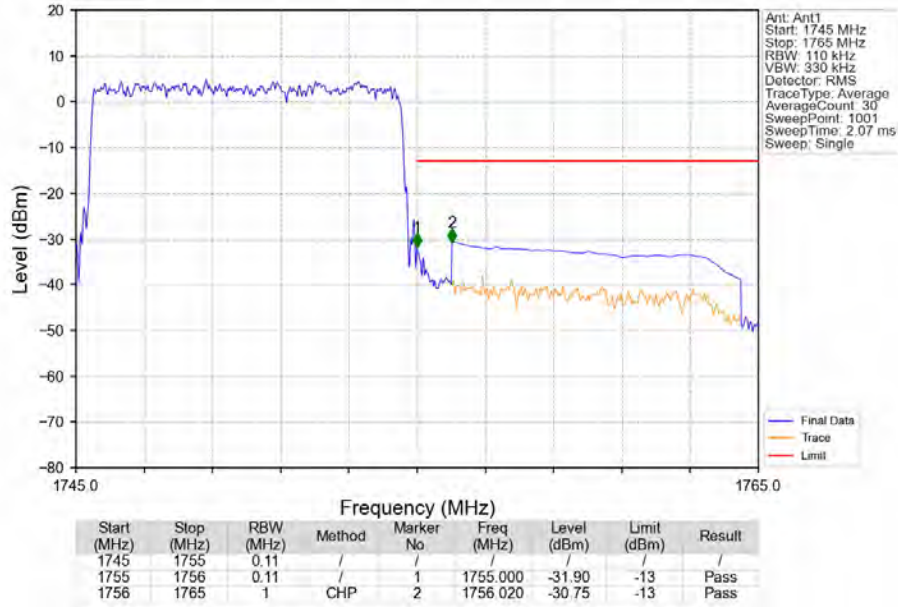
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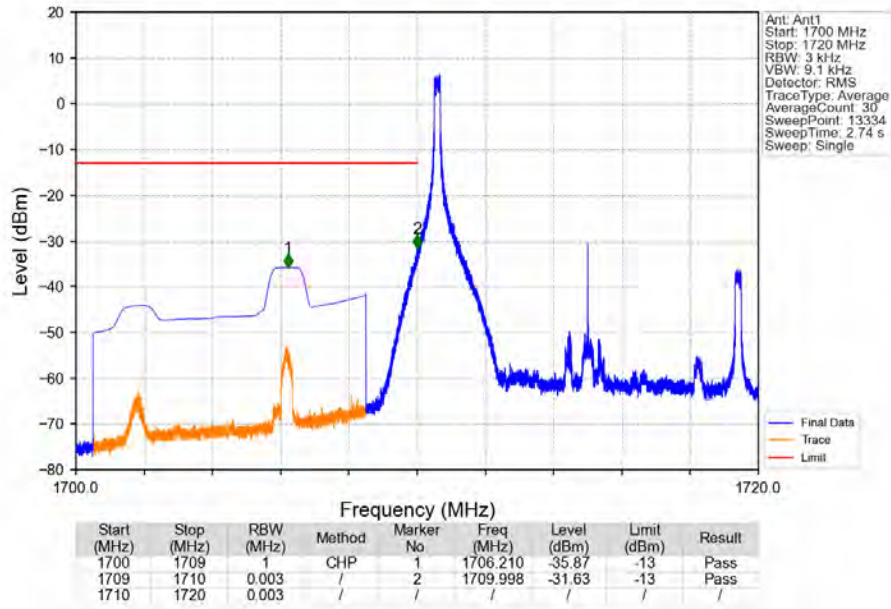
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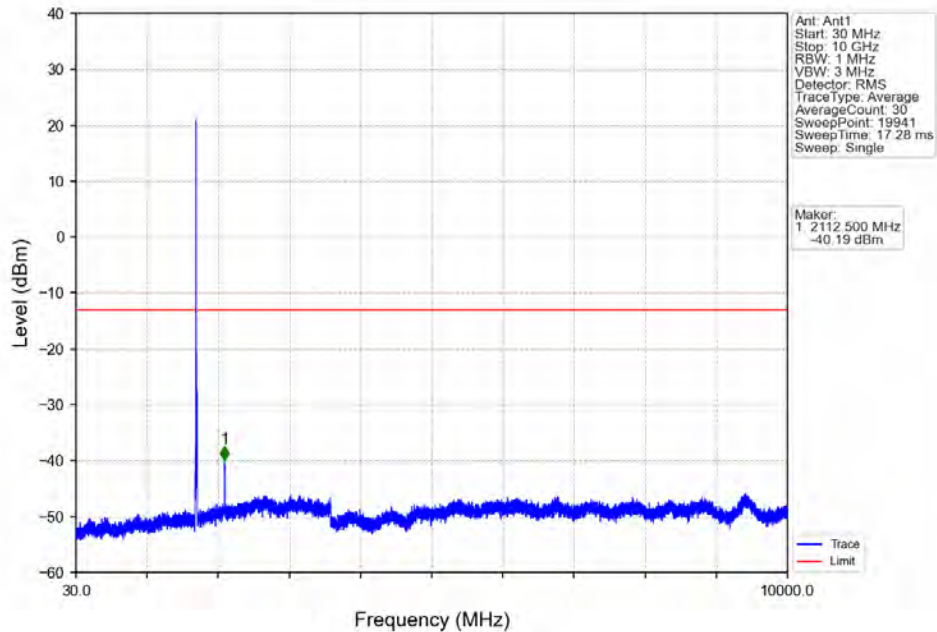
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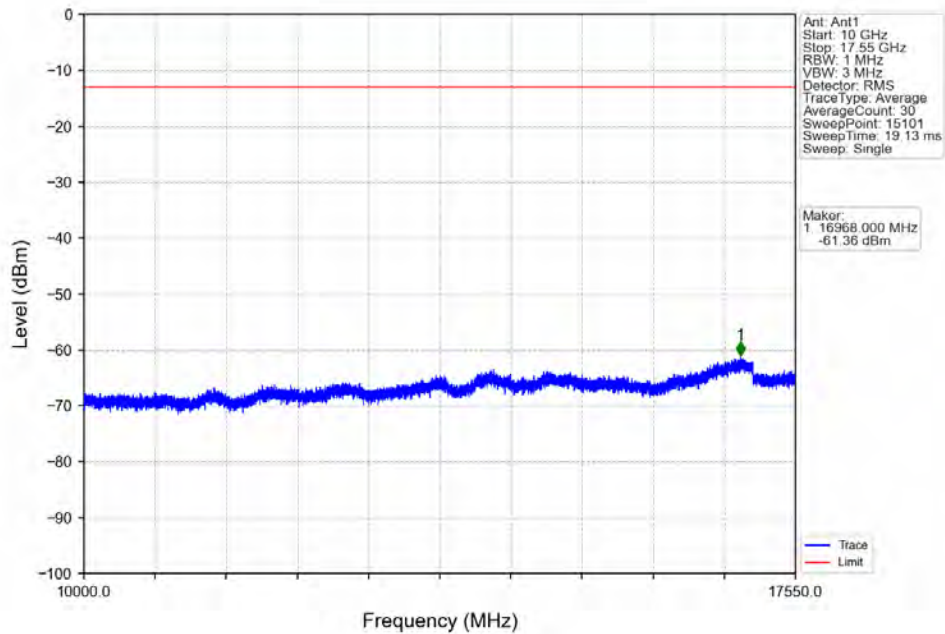
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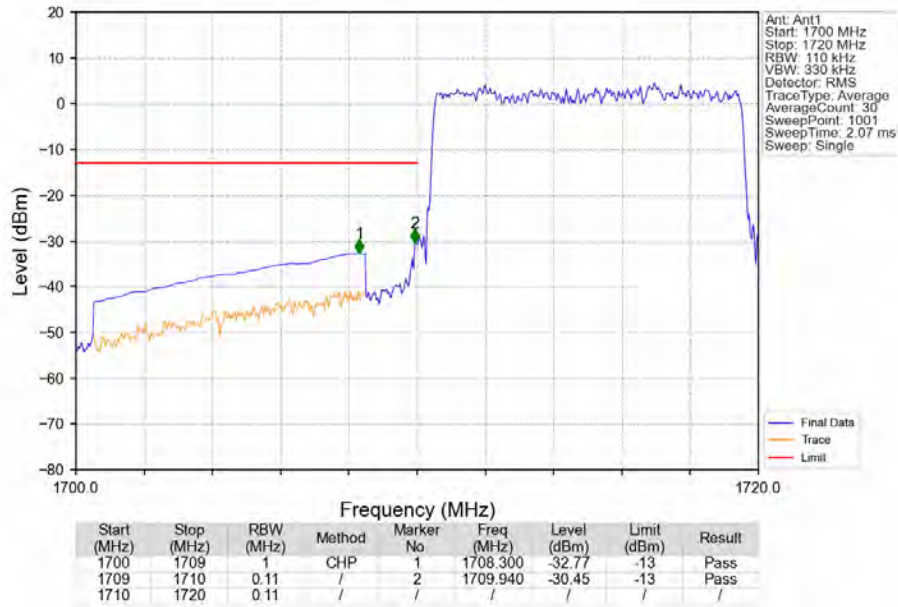
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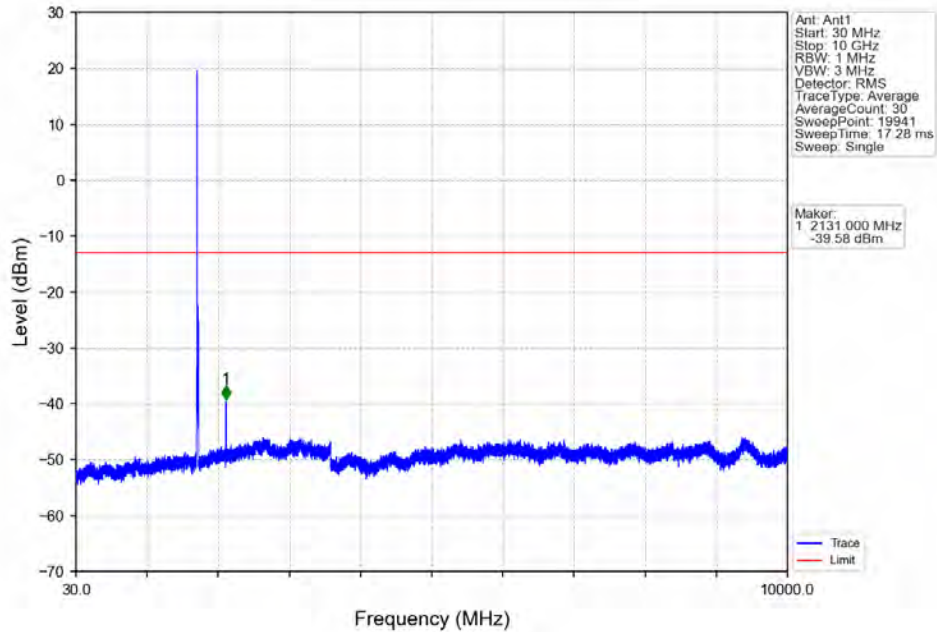
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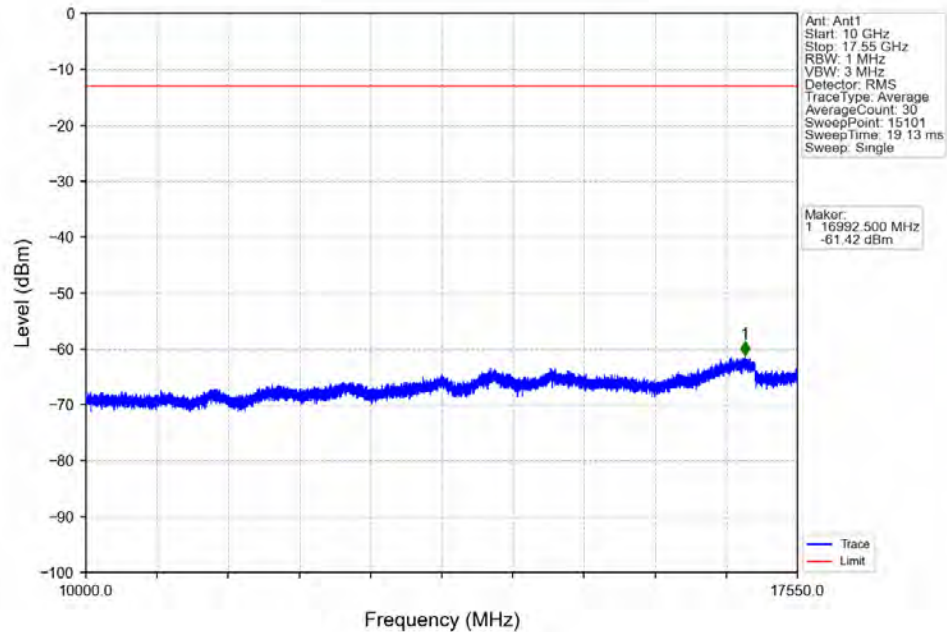
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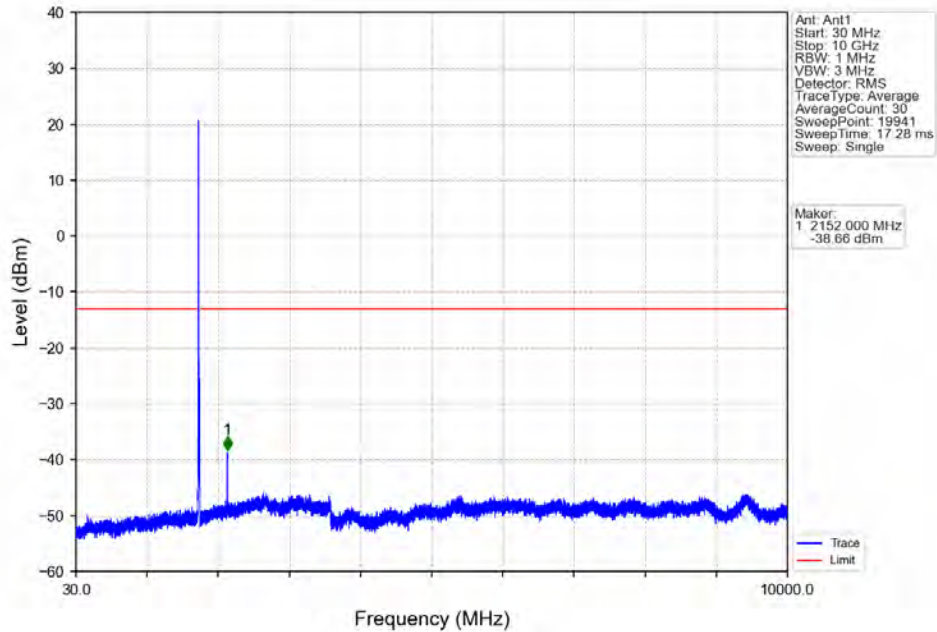
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Band4_10MHz_16QAM_HCH_1750MHz_RB_1_0_NTNV



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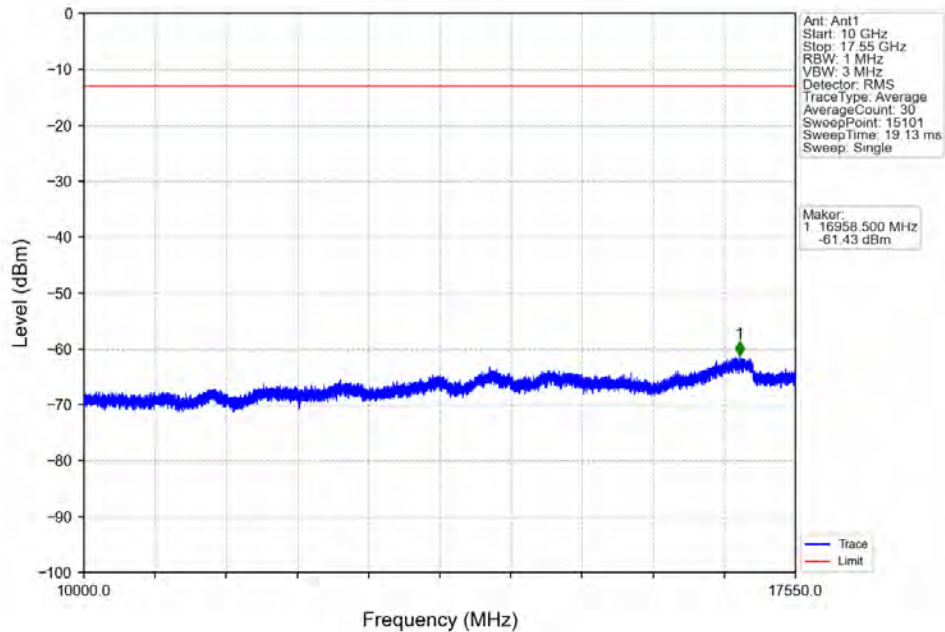
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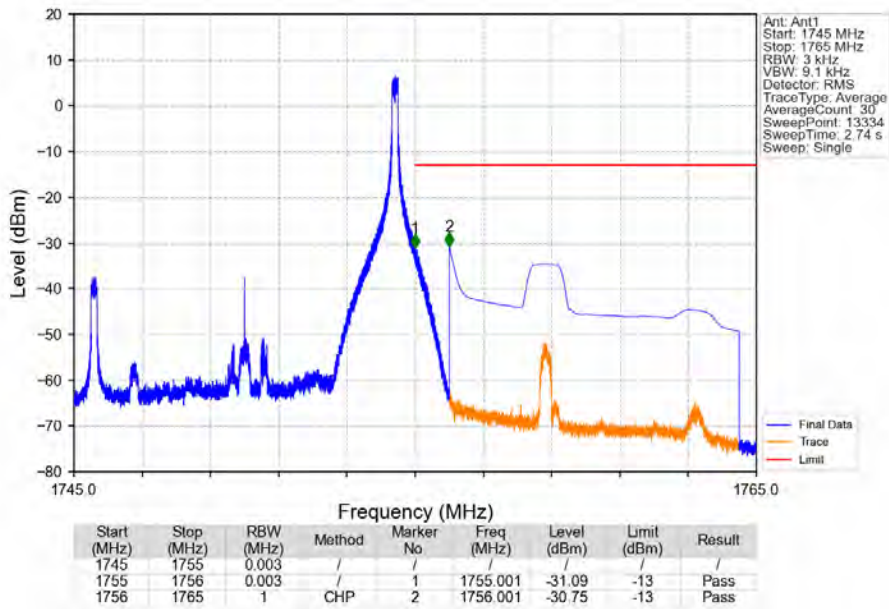
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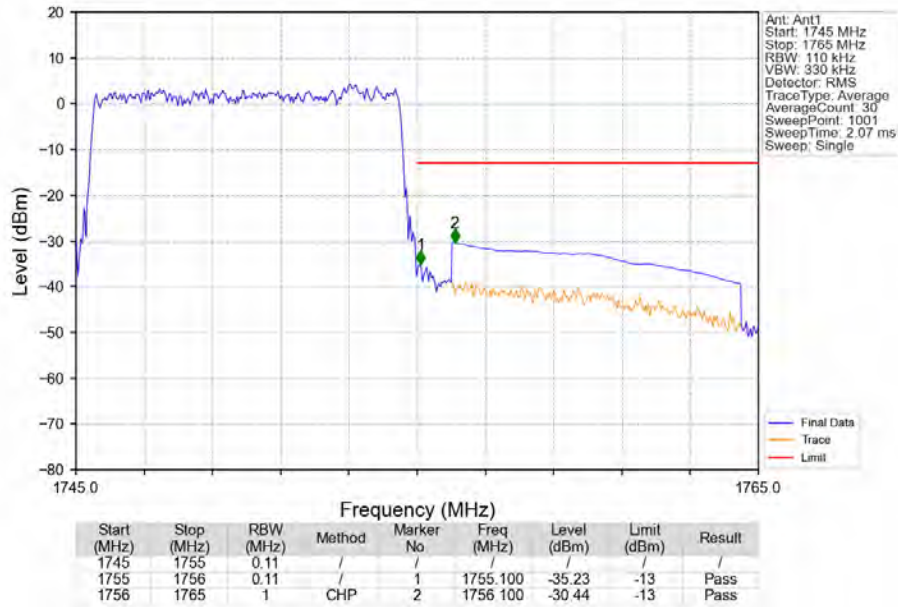
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5.5 B4_15MHz

5.5.1 Test Result

Band: 4 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	1717.5	1	0	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
	1747.5	1	0	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
16QAM	1717.5	1	0	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
	1747.5	1	0	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass



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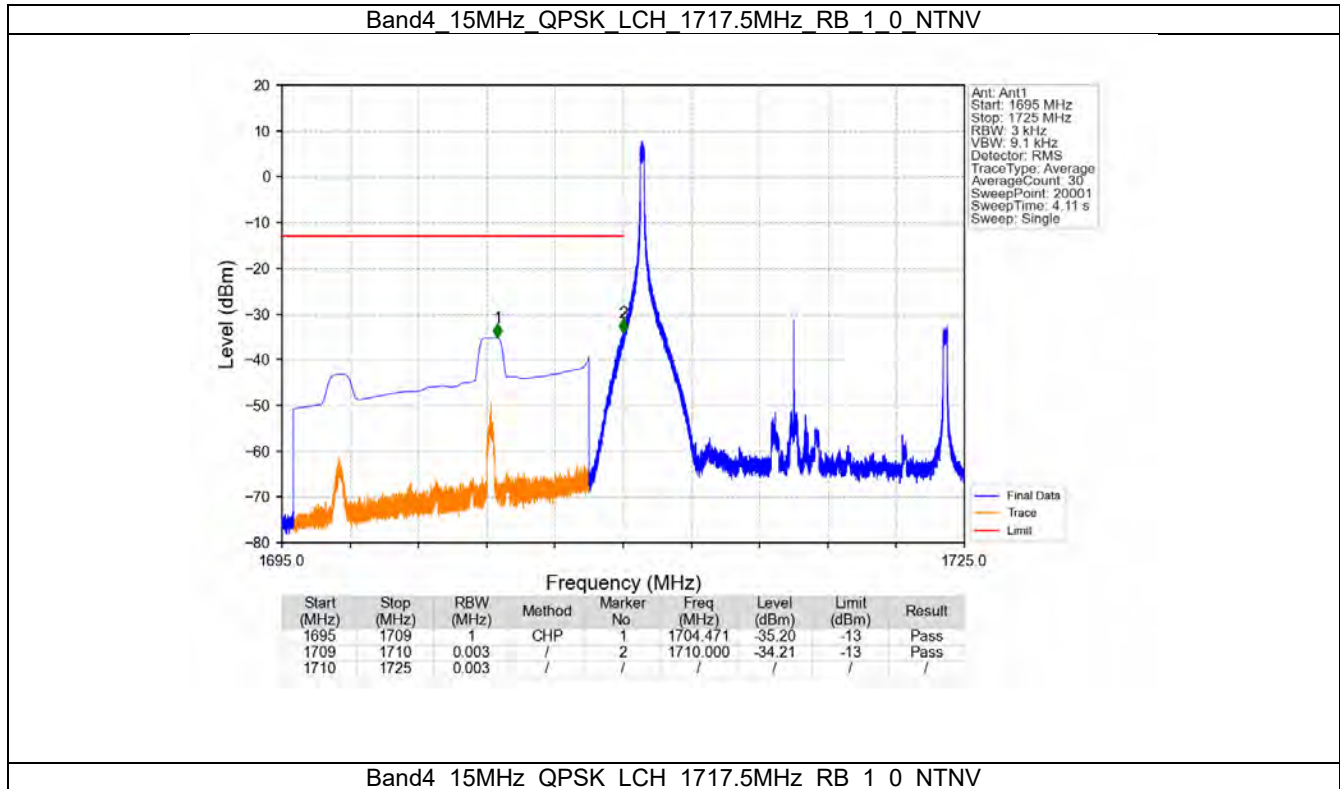
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5.5.2 Test Graph



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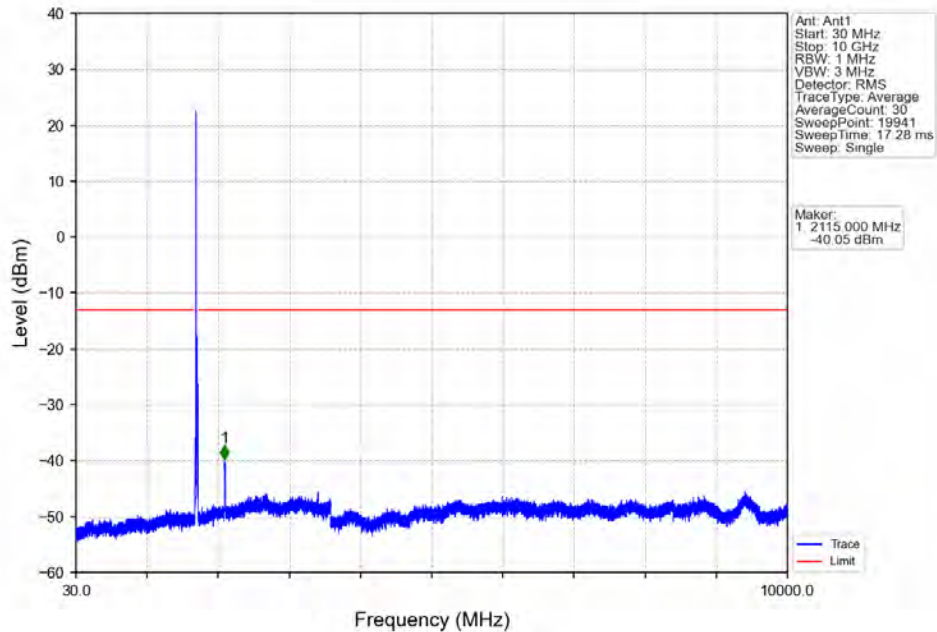
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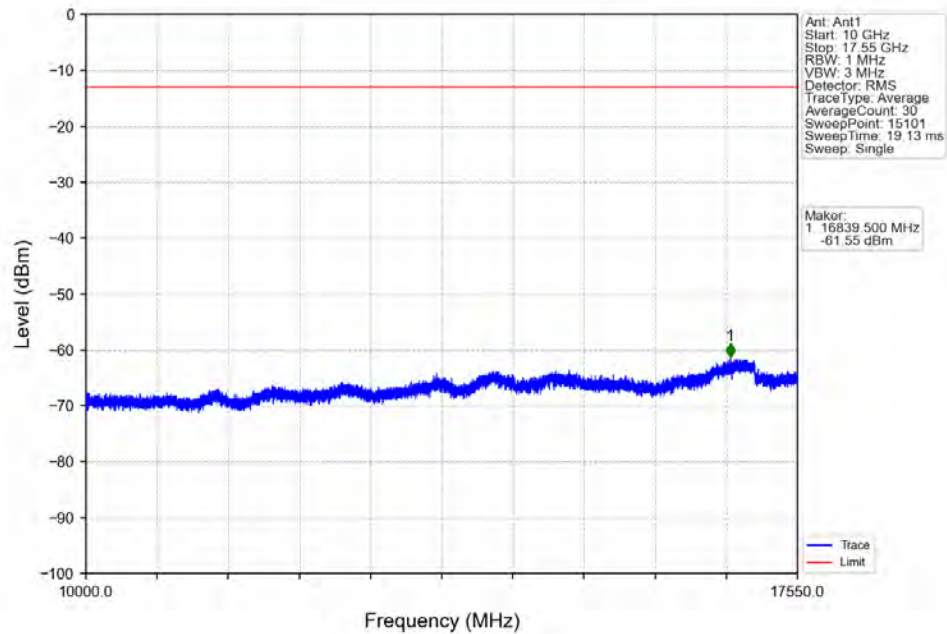
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Band4_15MHz_QPSK_LCH_1717.5MHz_RB_75_0_NTNV



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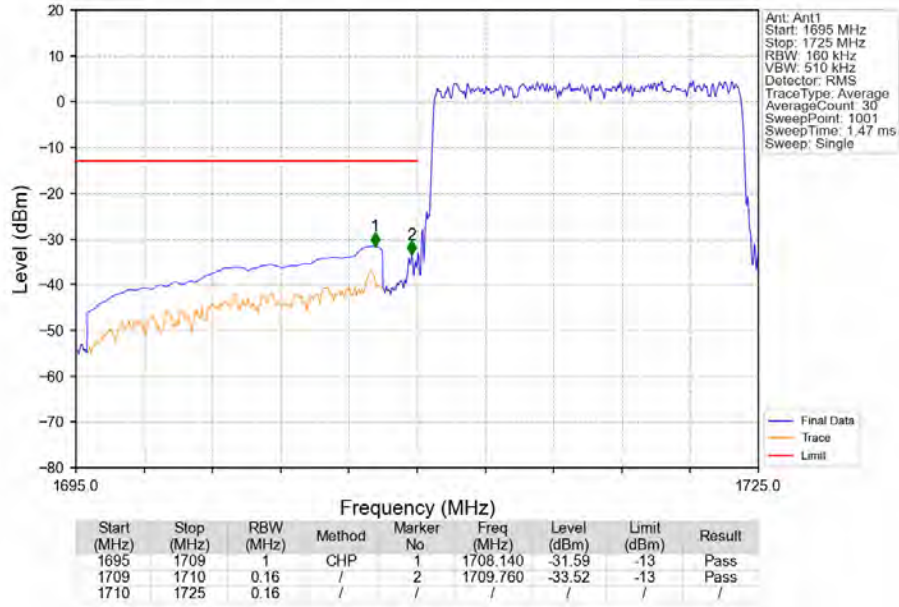
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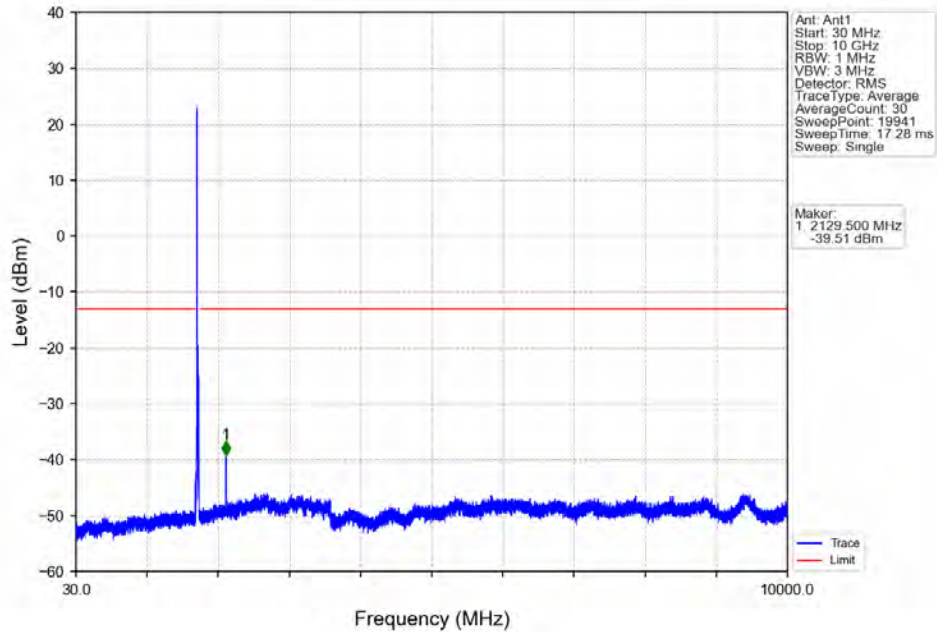
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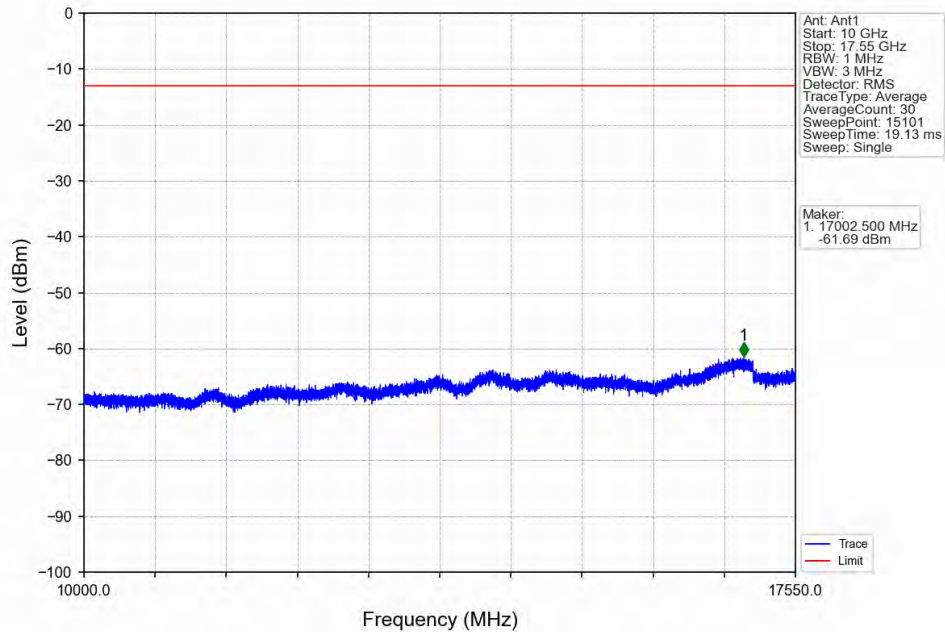
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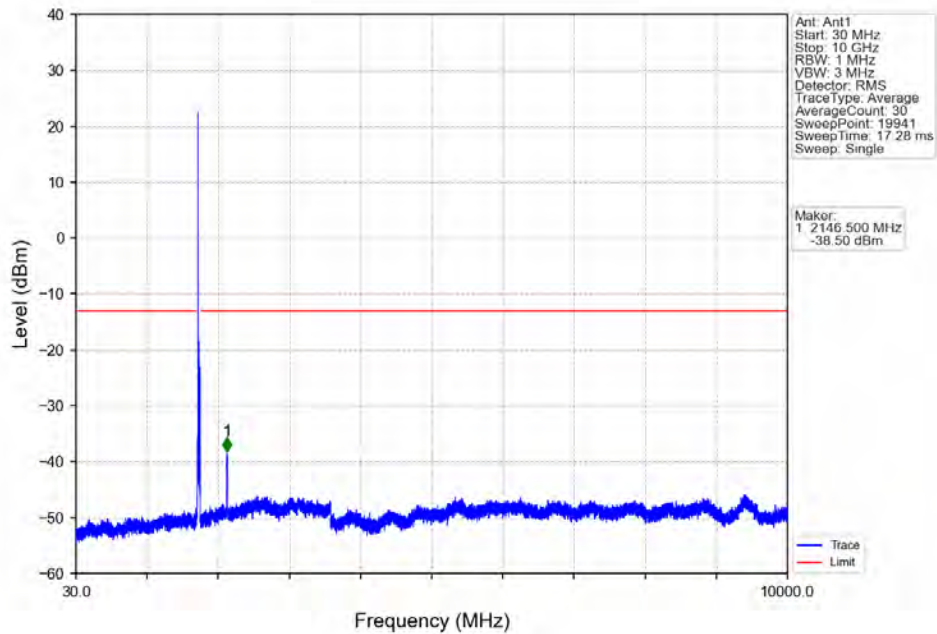
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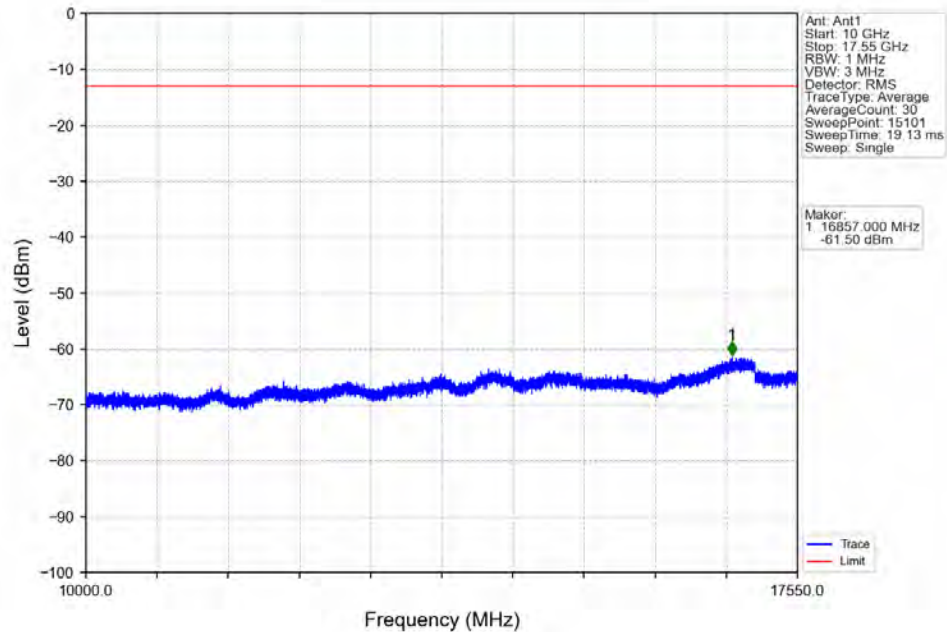
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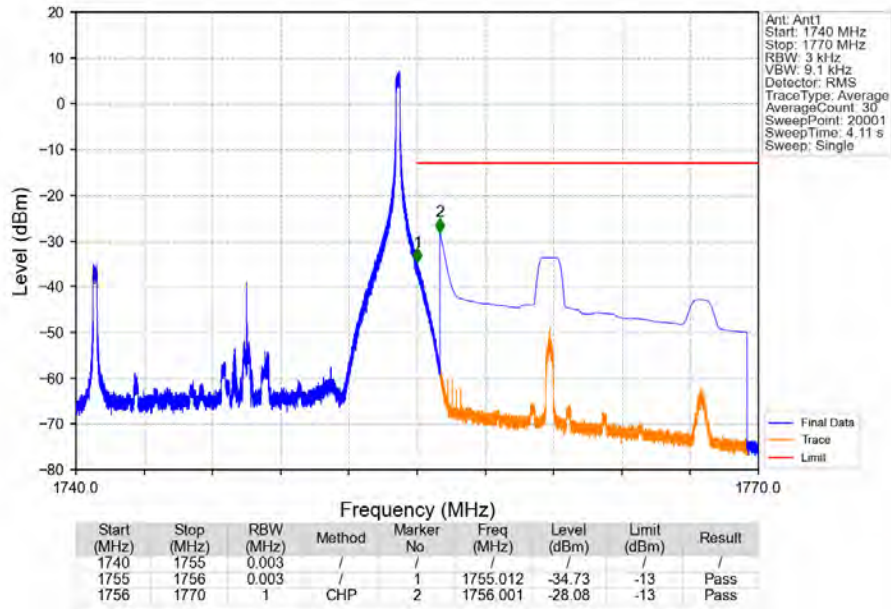
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Band4_15MHz_QPSK_HCH_1747.5MHz_RB_1_74_NTNV



Band4_15MHz_QPSK_HCH_1747.5MHz_RB_75_0_NTNV



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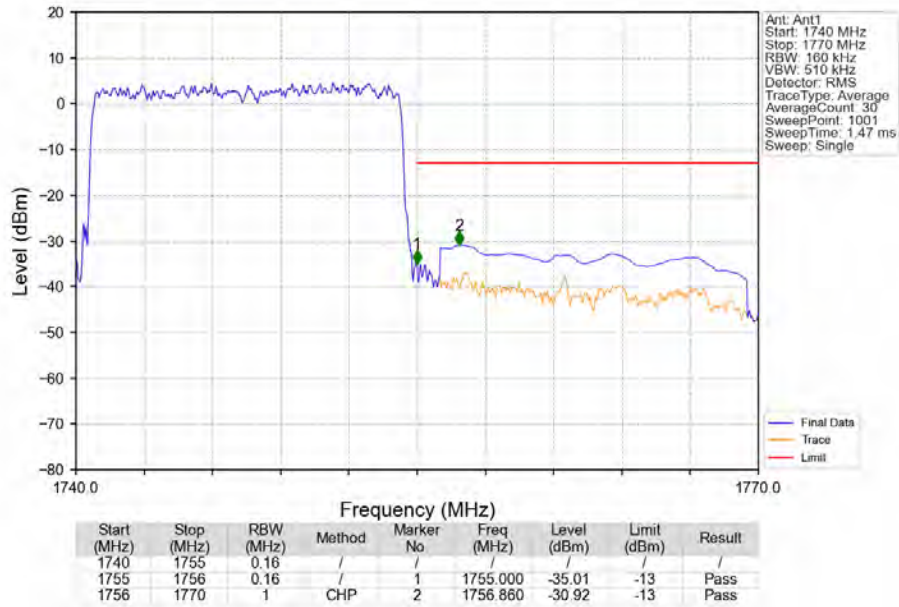
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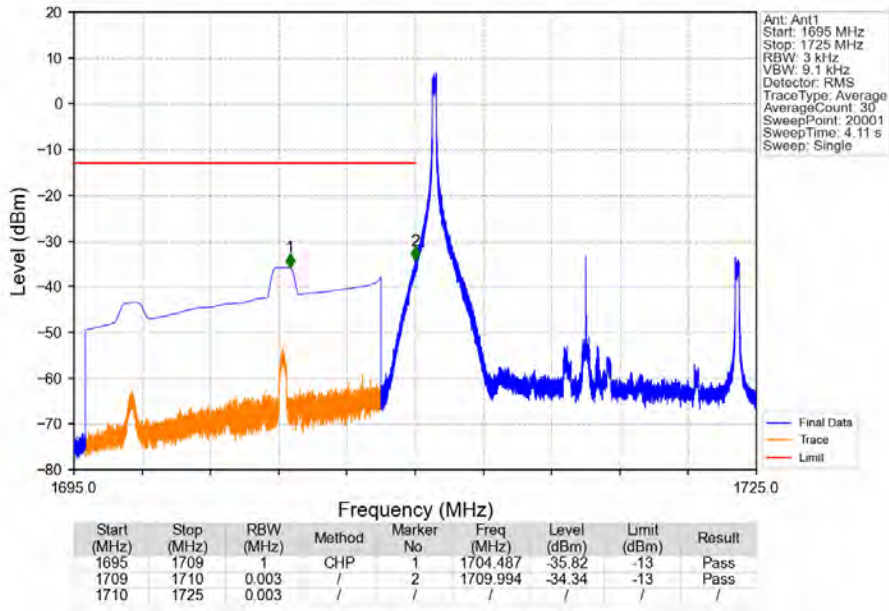
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Band4_15MHz_16QAM_LCH_1717.5MHz_RB_1_0_NTNV



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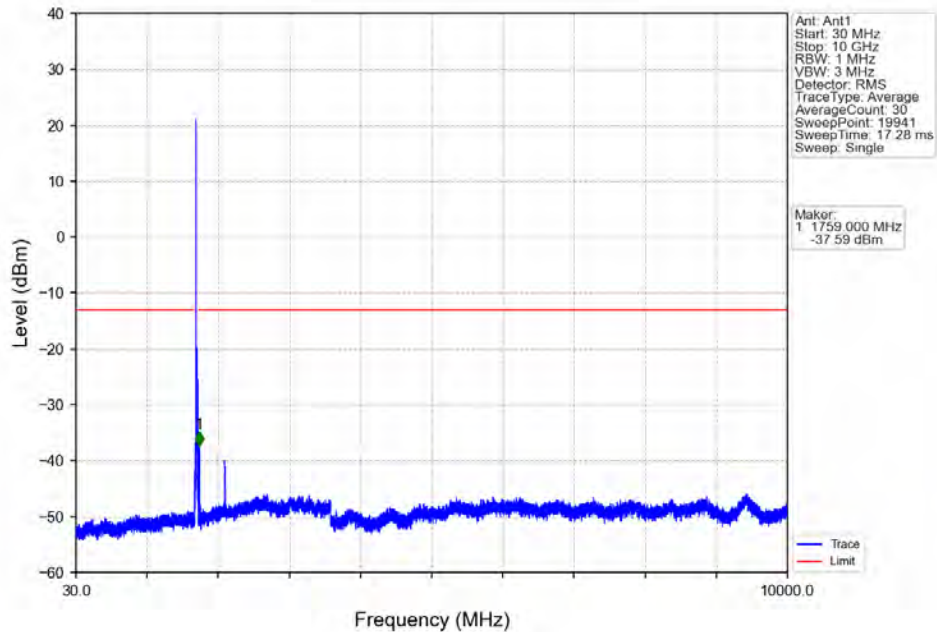
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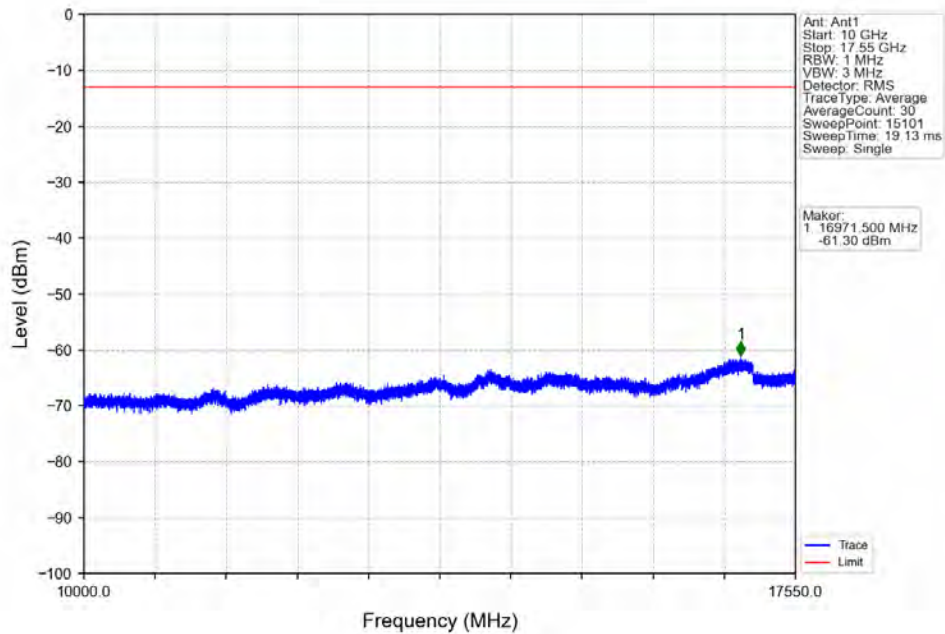
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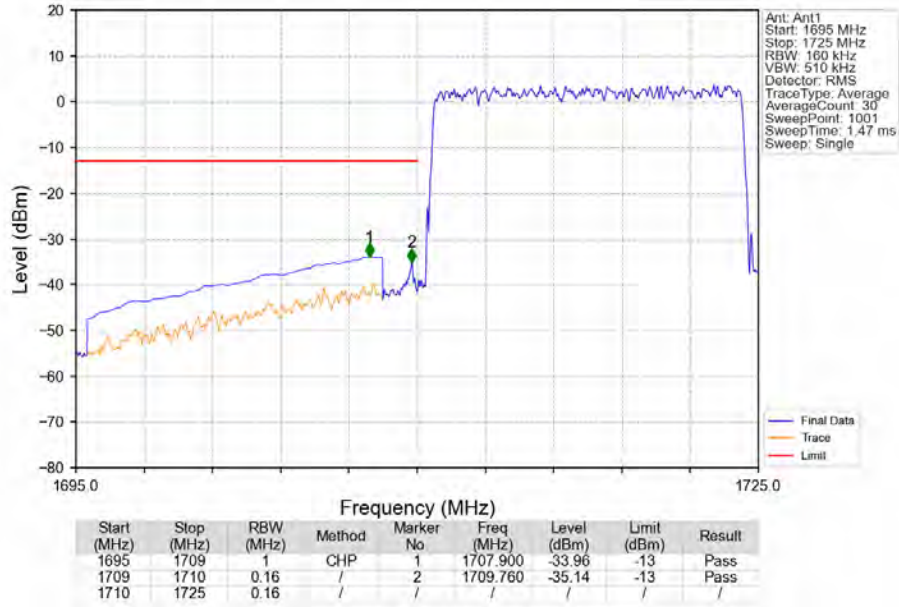
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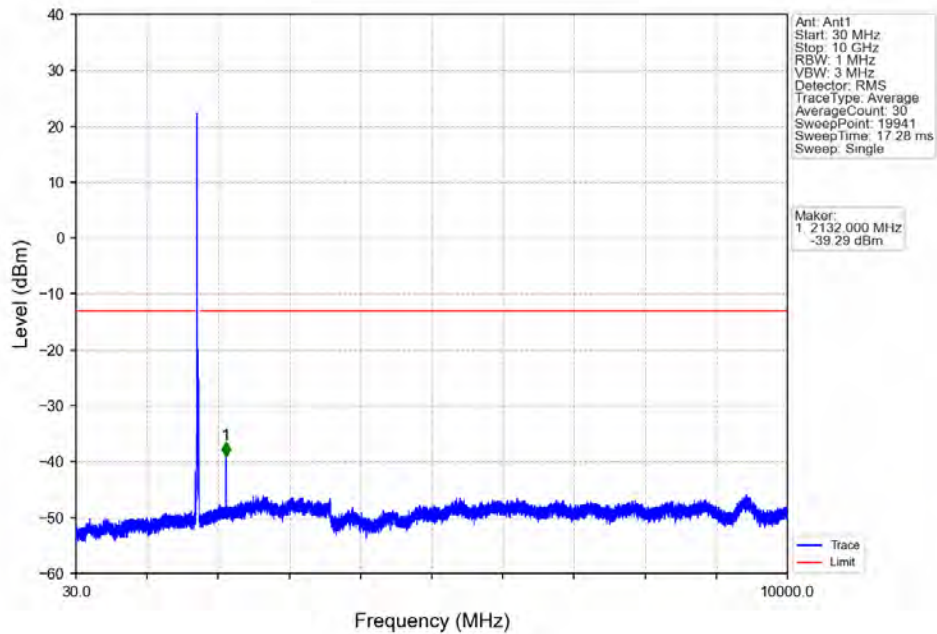
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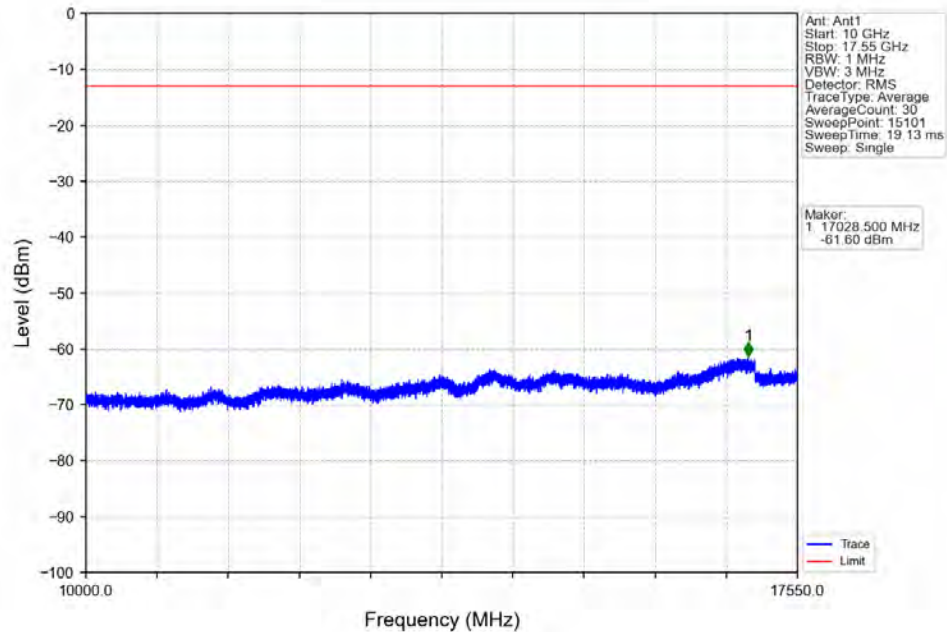
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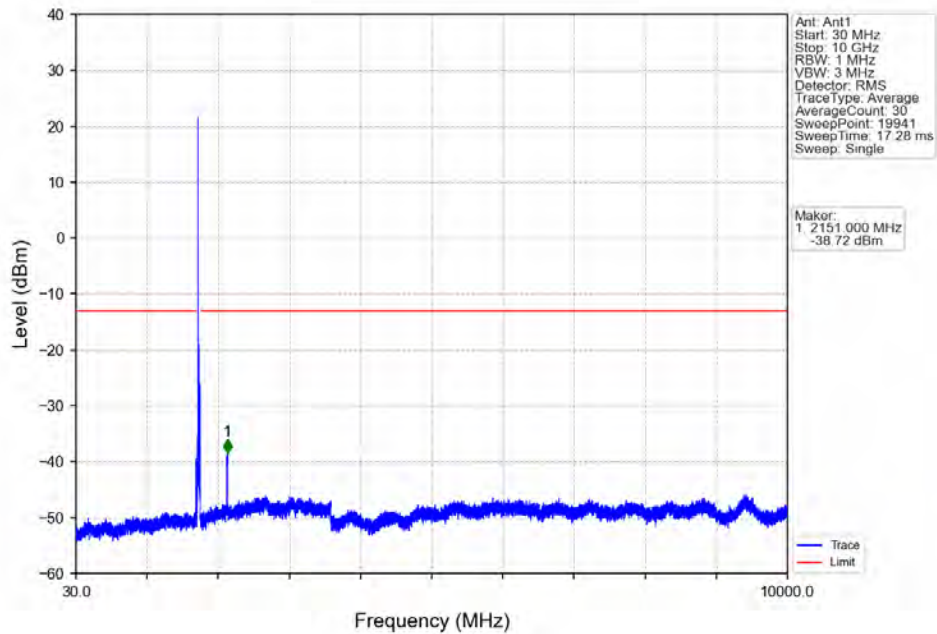
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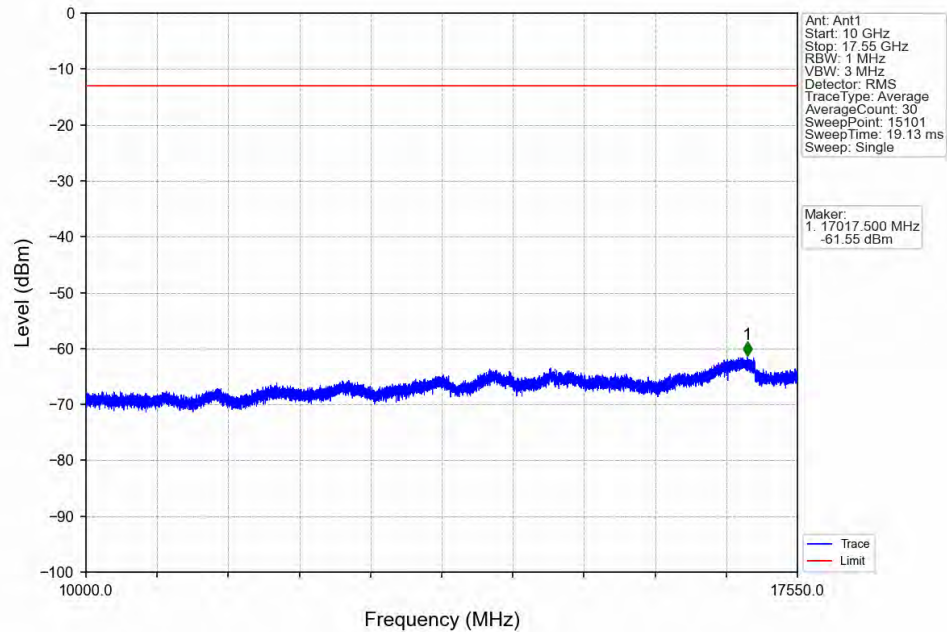
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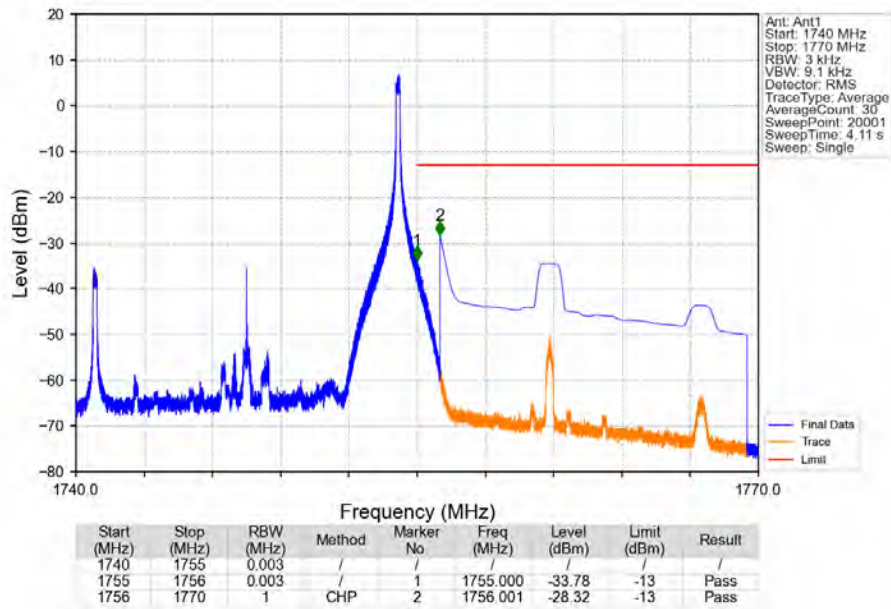
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Band4 15MHz 16QAM HCH 1747.5MHz RB 1 74 NTN



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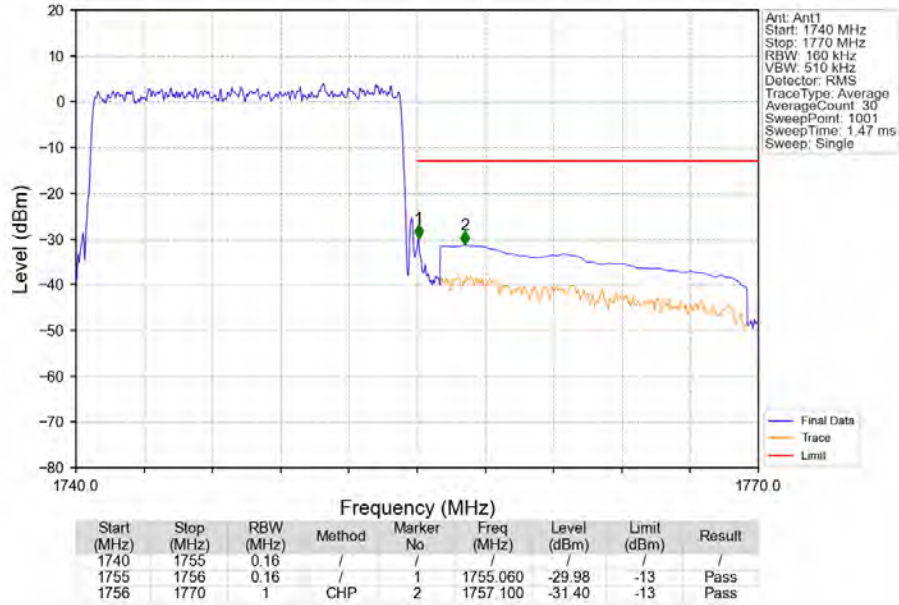
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5.6 B4_20MHz

5.6.1 Test Result

Band: 4 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	1720	1	0	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
	1745	1	0	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
16QAM	1720	1	0	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
	1745	1	0	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass



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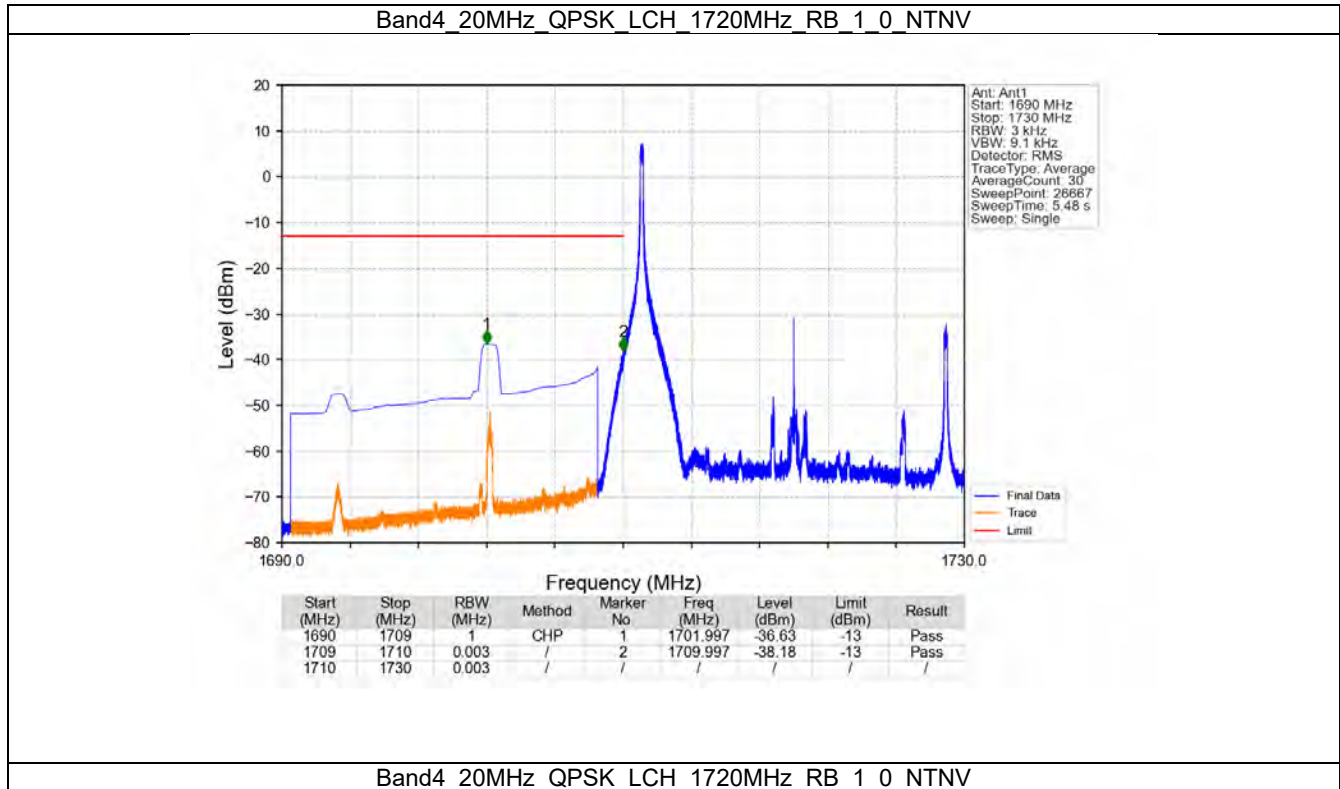
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5.6.2 Test Graph



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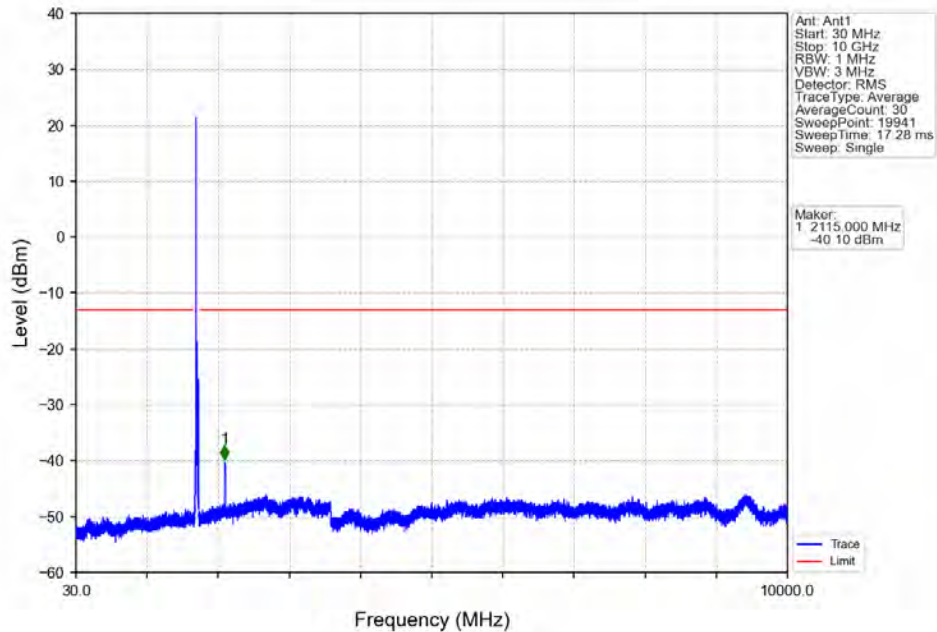
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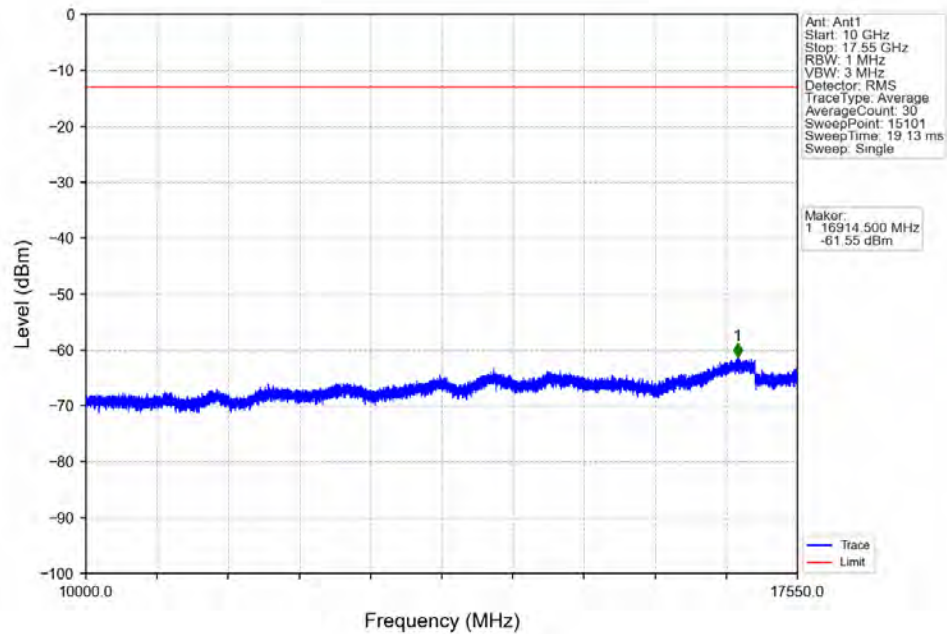
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Band4_20MHz_QPSK_LCH_1720MHz_RB_1_0_NTNV



Band4_20MHz_QPSK_LCH_1720MHz_RB_100_0_NTNV



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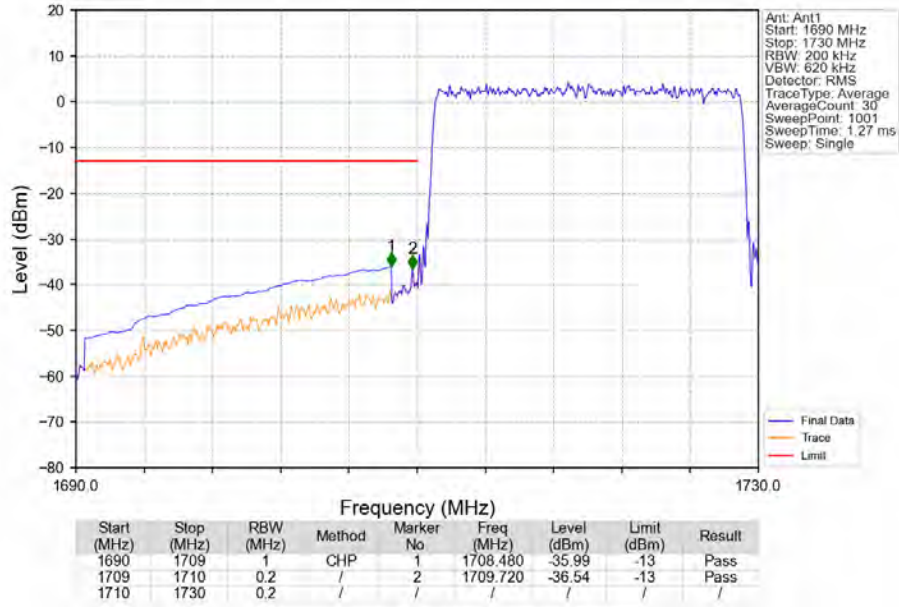
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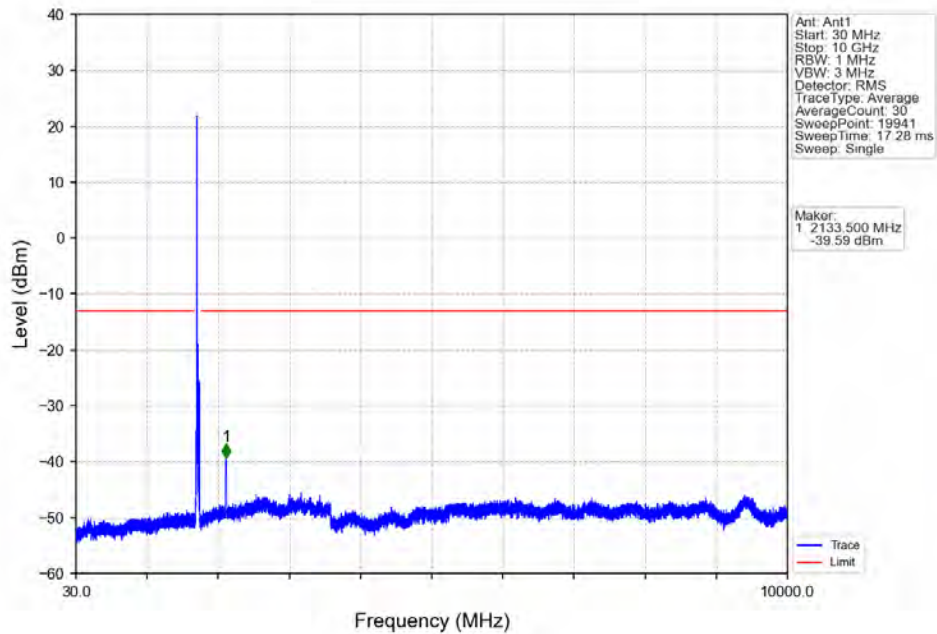
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Band4_20MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



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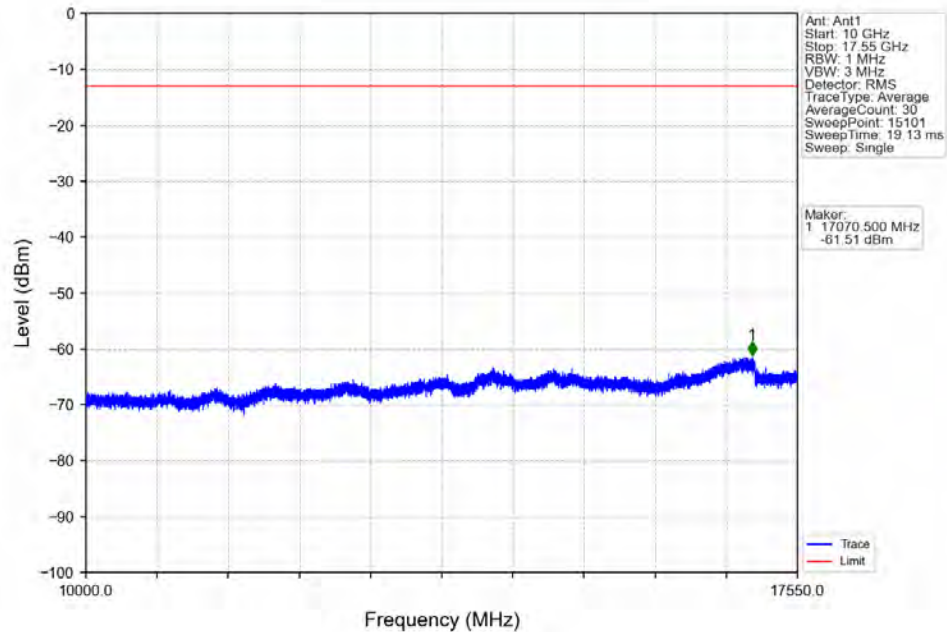
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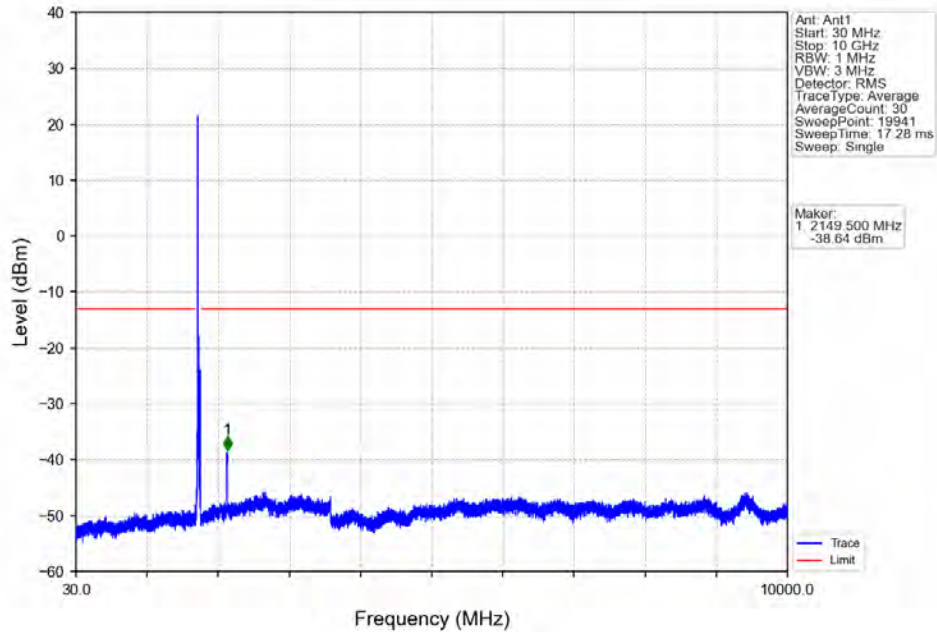
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Band4_20MHz_QPSK_HCH_1745MHz_RB_1_0_NTNV



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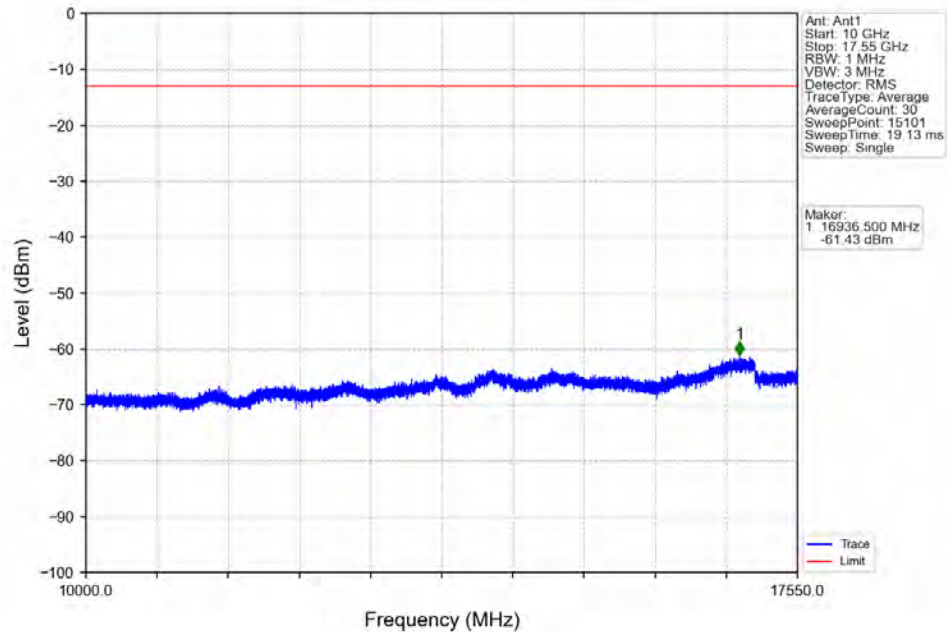
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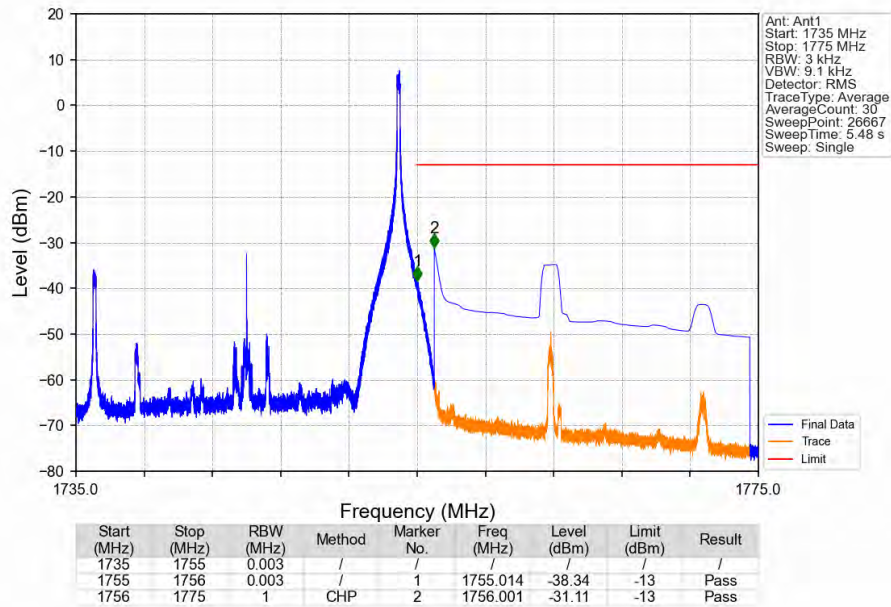
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Band4 20MHz QPSK HCH 1745MHz RB 1 99 NTNV



Band4 20MHz QPSK HCH 1745MHz RB 100 0 NTNV



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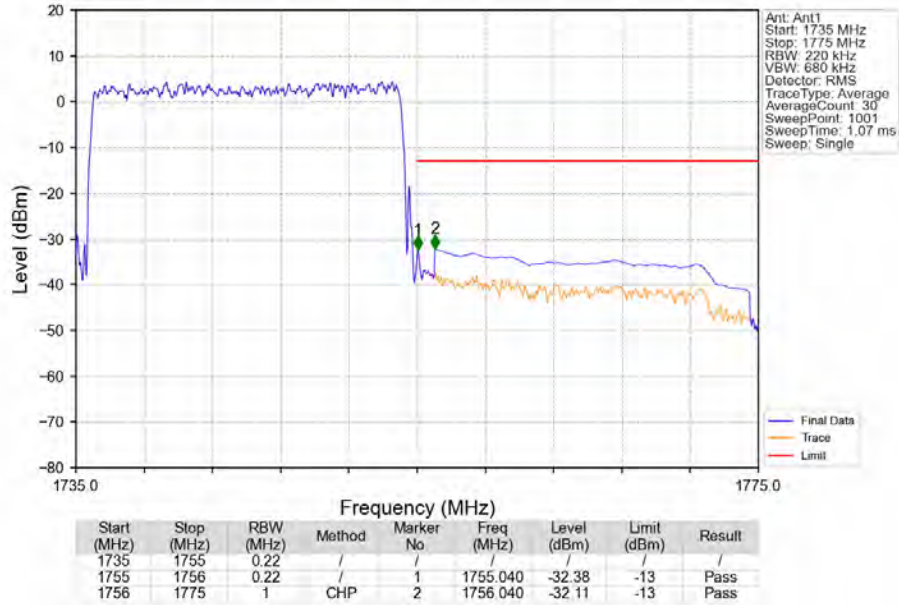
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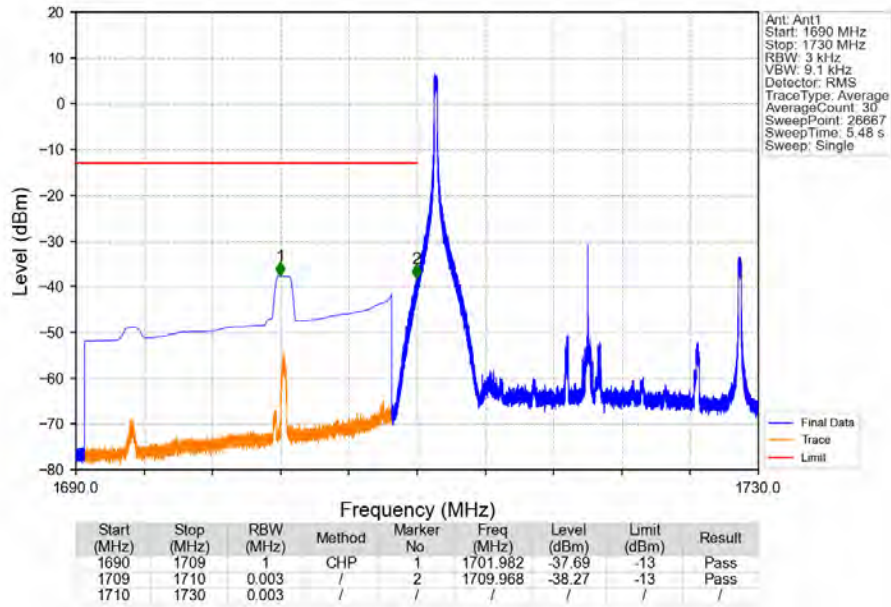
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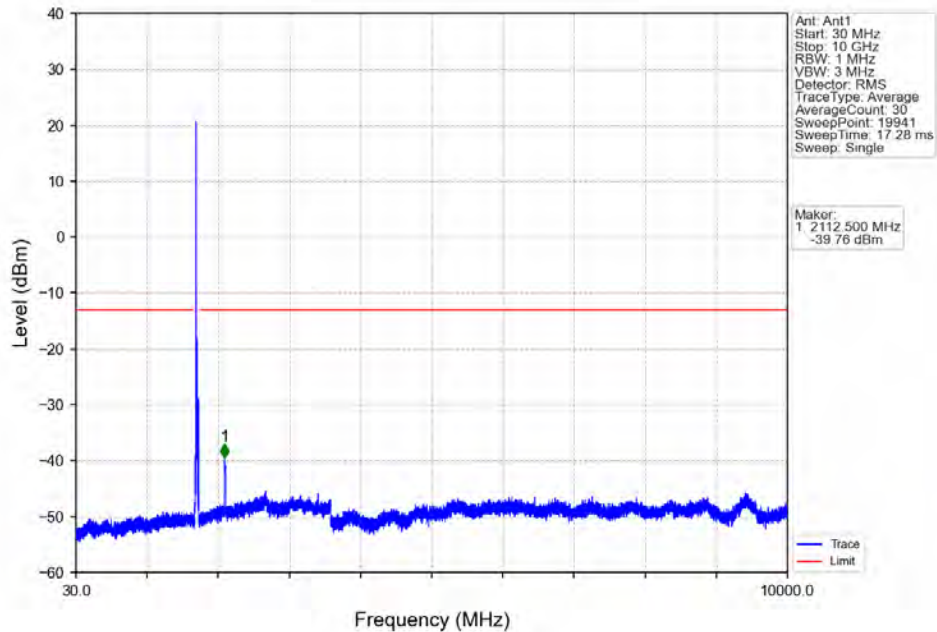
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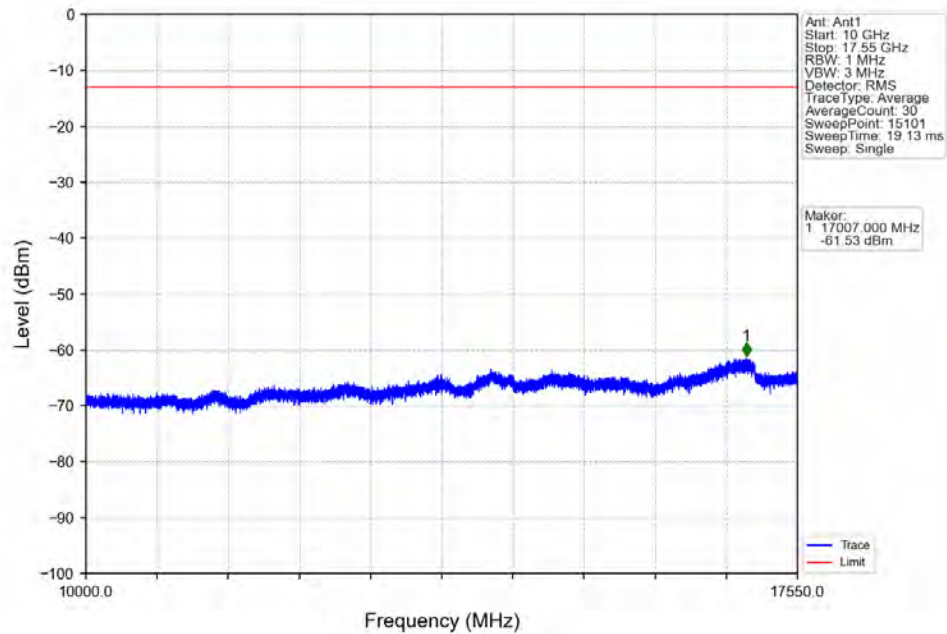
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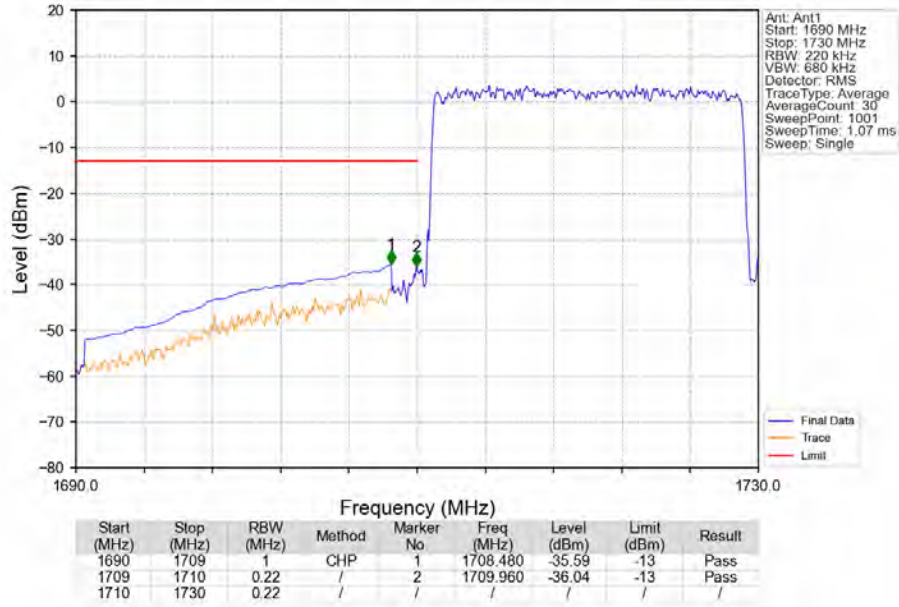
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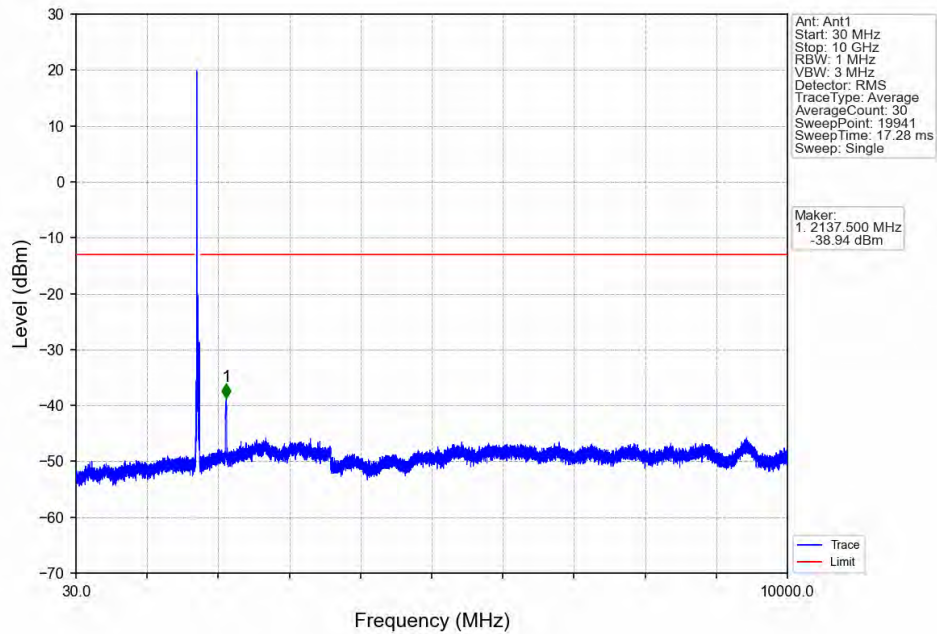
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Band4_20MHz_16QAM_MCH_1732.5MHz_RB_1_0_NTNV



Band4_20MHz_16QAM_MCH_1732.5MHz_RB_1_0_NTNV



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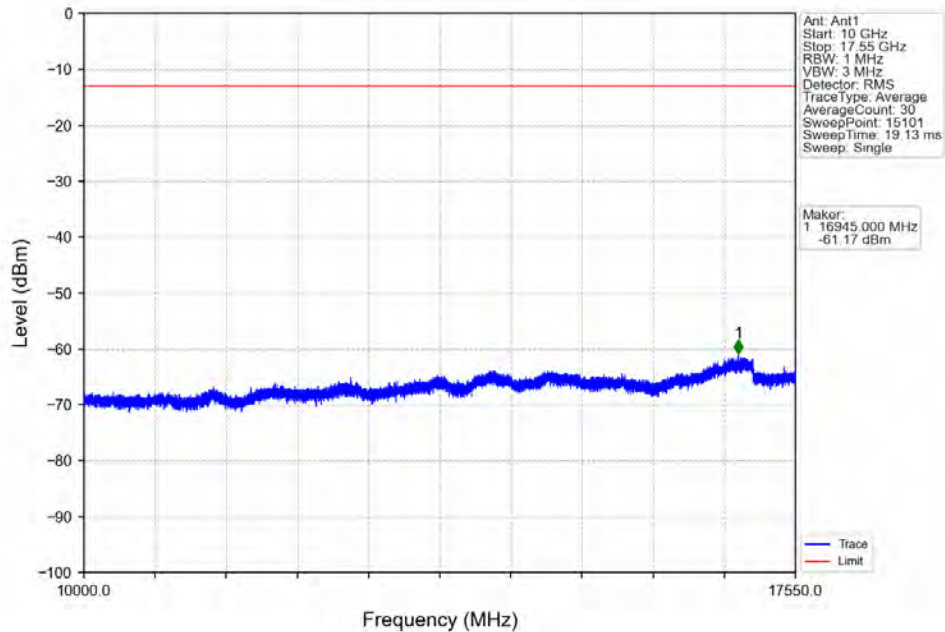
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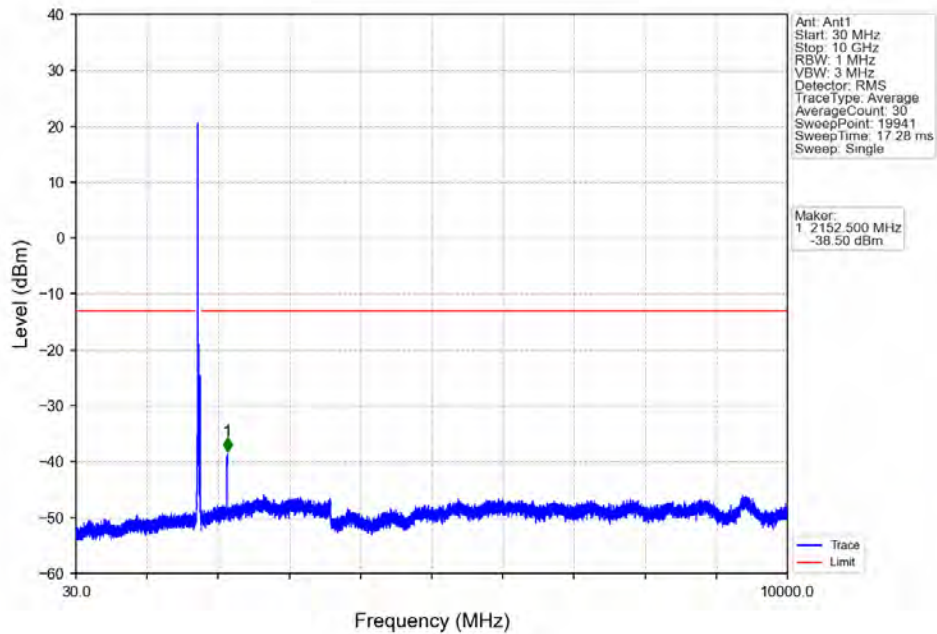
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Band4_20MHz_16QAM_HCH_1745MHz_RB_1_0_NTNV



Band4_20MHz_16QAM_HCH_1745MHz_RB_1_0_NTNV



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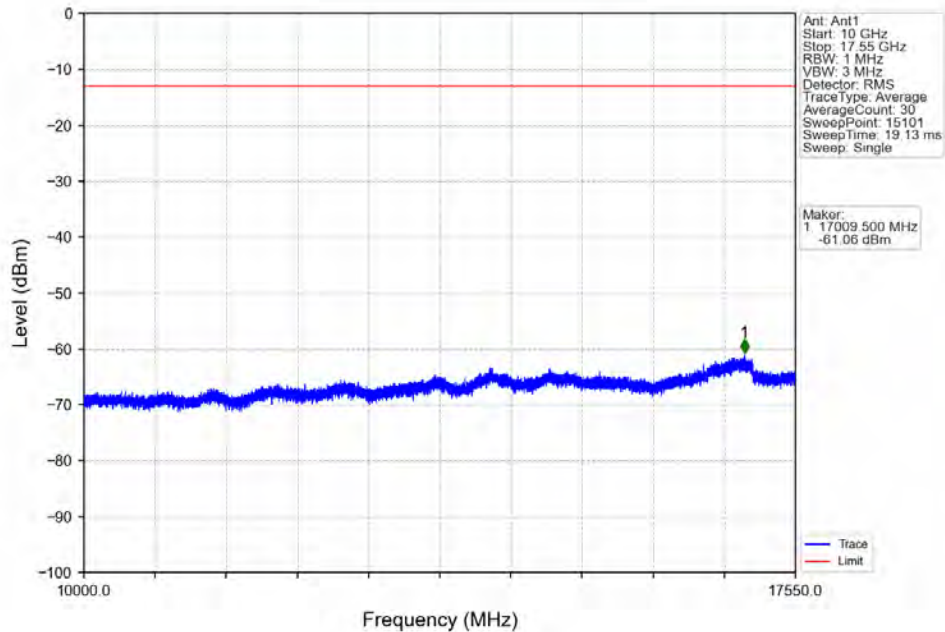
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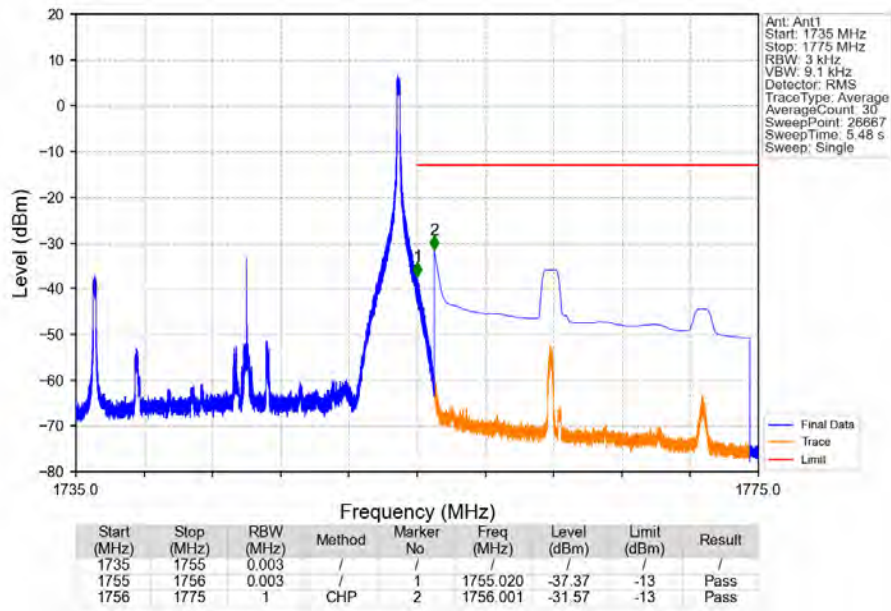
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Band4_20MHz_16QAM_HCH_1745MHz_RB_1_99_NTNV



Band4_20MHz_16QAM_HCH_1745MHz_RB_100_0_NTNV



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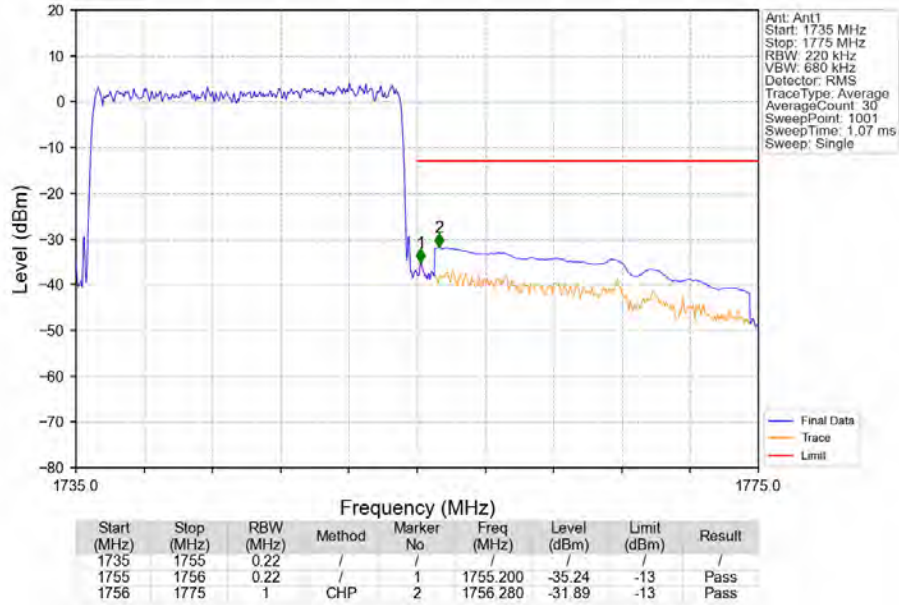
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6. Field Strength of Spurious Radiation

Test Band = LTE_B4_TM1

Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3422	65.76	-45.33	28.73	-46.10	-13.00	33.10	Horizontal
2	5133.5	63.99	-42.53	31.70	-42.10	-13.00	29.10	Horizontal
3	8371.5	42.15	-36.99	36.39	-53.71	-13.00	40.71	Horizontal
4	11094	42.06	-37.55	40.19	-50.56	-13.00	37.56	Horizontal
5	15287.5	38.85	-36.09	39.88	-52.62	-13.00	39.62	Horizontal
6	17991	38.09	-43.11	48.04	-52.24	-13.00	39.24	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3422	60.72	-45.33	28.73	-51.14	-13.00	38.14	Vertical
2	5133.5	63.07	-42.53	31.70	-43.02	-13.00	30.02	Vertical
3	7929.5	42.05	-37.42	36.44	-54.19	-13.00	41.19	Vertical
4	13553	40.46	-37.91	40.01	-52.70	-13.00	39.70	Vertical
5	16400	39.38	-34.82	38.80	-51.90	-13.00	38.90	Vertical
6	17986.5	37.80	-43.15	47.96	-52.65	-13.00	39.65	Vertical



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Test Band = LTE_B4_TM1

Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3447	63.88	-45.26	28.88	-47.76	-13.00	34.76	Horizontal
2	5171	62.03	-42.54	31.84	-43.93	-13.00	30.93	Horizontal
3	6894.5	44.23	-39.22	35.42	-54.83	-13.00	41.83	Horizontal
4	8393	42.14	-36.99	36.47	-53.64	-13.00	40.64	Horizontal
5	11028.5	41.29	-37.15	40.13	-50.99	-13.00	37.99	Horizontal
6	16390	39.13	-34.88	38.77	-52.24	-13.00	39.24	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3447	58.55	-45.26	28.88	-53.09	-13.00	40.09	Vertical
2	5171	64.38	-42.54	31.84	-41.58	-13.00	28.58	Vertical
3	6894.5	45.77	-39.22	35.42	-53.29	-13.00	40.29	Vertical
4	11129	42.32	-38.07	40.20	-50.81	-13.00	37.81	Vertical
5	13405.5	41.70	-38.76	39.62	-52.70	-13.00	39.70	Vertical
6	16374.5	39.26	-34.96	38.72	-52.24	-13.00	39.24	Vertical



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Test Band = LTE_B4_TM1
Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3472	63.76	-45.19	28.99	-47.70	-13.00	34.70	Horizontal
2	5208	60.89	-42.53	31.85	-45.05	-13.00	32.05	Horizontal
3	6944	45.25	-39.44	35.31	-54.14	-13.00	41.14	Horizontal
4	9891	41.23	-35.03	38.53	-50.53	-13.00	37.53	Horizontal
5	13569	40.91	-37.89	40.04	-52.20	-13.00	39.20	Horizontal
6	17990.5	37.89	-43.12	48.03	-52.46	-13.00	39.46	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3472	58.93	-45.19	28.99	-52.53	-13.00	39.53	Vertical
2	5208.5	59.80	-42.53	31.85	-46.14	-13.00	33.14	Vertical
3	6944.5	46.04	-39.44	35.31	-53.35	-13.00	40.35	Vertical
4	9912.5	40.71	-35.29	38.61	-51.23	-13.00	38.23	Vertical
5	13012.5	42.10	-38.83	39.24	-52.75	-13.00	39.75	Vertical
6	16352	39.69	-35.08	38.66	-51.99	-13.00	38.99	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

---End of Attachment---



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