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Rev.: 01
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Appendix B.12

LTE Band 17



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1. Effective (Isotropic) Radiated Power Output Data

1.1 B17_5MHz_ERP ANT1

1.1.1 Test Result

Band: 17 / Bandwidth: 5MHz / NTNv										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	706.5	1	0	23.22	-5.7	15.37	<=34.77	Pass		
			13	23.27	-5.7	15.42	<=34.77	Pass		
			24	23.15	-5.7	15.3	<=34.77	Pass		
		12	0	22.11	-5.7	14.26	<=34.77	Pass		
			6	22.21	-5.7	14.36	<=34.77	Pass		
			13	22.2	-5.7	14.35	<=34.77	Pass		
		25	0	22.19	-5.7	14.34	<=34.77	Pass		
		710	1	0	23.13	-5.7	15.28	<=34.77	Pass	
				13	23.26	-5.7	15.41	<=34.77	Pass	
	24			23.12	-5.7	15.27	<=34.77	Pass		
	12		0	22.15	-5.7	14.3	<=34.77	Pass		
			6	22.18	-5.7	14.33	<=34.77	Pass		
			13	22.2	-5.7	14.35	<=34.77	Pass		
	25		0	22.15	-5.7	14.3	<=34.77	Pass		
	713.5		1	0	23.25	-5.7	15.4	<=34.77	Pass	
				13	23.32	-5.7	15.47	<=34.77	Pass	
		24		23.06	-5.7	15.21	<=34.77	Pass		
		12	0	22.22	-5.7	14.37	<=34.77	Pass		
			6	22.23	-5.7	14.38	<=34.77	Pass		
			13	22.18	-5.7	14.33	<=34.77	Pass		
		25	0	22.2	-5.7	14.35	<=34.77	Pass		
		16QAM	706.5	1	0	22.17	-5.7	14.32	<=34.77	Pass
					13	22.2	-5.7	14.35	<=34.77	Pass
	24				22.14	-5.7	14.29	<=34.77	Pass	
12	0			21.1	-5.7	13.25	<=34.77	Pass		
	6			21.25	-5.7	13.4	<=34.77	Pass		
	13			21.25	-5.7	13.4	<=34.77	Pass		
25	0			21.21	-5.7	13.36	<=34.77	Pass		
710	1			0	22.27	-5.7	14.42	<=34.77	Pass	
				13	22.3	-5.7	14.45	<=34.77	Pass	
			24	22.31	-5.7	14.46	<=34.77	Pass		
	12		0	21.19	-5.7	13.34	<=34.77	Pass		
			6	21.3	-5.7	13.45	<=34.77	Pass		
			13	21.16	-5.7	13.31	<=34.77	Pass		
	25		0	21.14	-5.7	13.29	<=34.77	Pass		
	713.5		1	0	22.36	-5.7	14.51	<=34.77	Pass	
				13	22.4	-5.7	14.55	<=34.77	Pass	



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			24	22.24	-5.7	14.39	<=34.77	Pass		
		12	0	21.27	-5.7	13.42	<=34.77	Pass		
			6	21.18	-5.7	13.33	<=34.77	Pass		
			13	21.3	-5.7	13.45	<=34.77	Pass		
			25	0	21.24	-5.7	13.39	<=34.77	Pass	
64QAM	706.5	1	0	21.27	-5.7	13.42	<=34.77	Pass		
			13	21.27	-5.7	13.42	<=34.77	Pass		
			24	21.12	-5.7	13.27	<=34.77	Pass		
		12	0	20.16	-5.7	12.31	<=34.77	Pass		
			6	20.27	-5.7	12.42	<=34.77	Pass		
			13	20.22	-5.7	12.37	<=34.77	Pass		
		25	0	20.18	-5.7	12.33	<=34.77	Pass		
		710	1	0	21.32	-5.7	13.47	<=34.77	Pass	
				13	21.56	-5.7	13.71	<=34.77	Pass	
	24			21.36	-5.7	13.51	<=34.77	Pass		
	12		0	20.2	-5.7	12.35	<=34.77	Pass		
			6	20.21	-5.7	12.36	<=34.77	Pass		
			13	20.21	-5.7	12.36	<=34.77	Pass		
	25		0	20.17	-5.7	12.32	<=34.77	Pass		
	713.5		1	0	21.42	-5.7	13.57	<=34.77	Pass	
				13	21.43	-5.7	13.58	<=34.77	Pass	
		24		21.35	-5.7	13.5	<=34.77	Pass		
		12	0	20.21	-5.7	12.36	<=34.77	Pass		
			6	20.24	-5.7	12.39	<=34.77	Pass		
			13	20.14	-5.7	12.29	<=34.77	Pass		
		25	0	20.22	-5.7	12.37	<=34.77	Pass		
		Note1: ERP=Conducted Power+Antenna Gain-2.15								



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1.2 B17_10MHz_ERP

1.2.1 Test Result

Band: 17 / Bandwidth: 10MHz / NTNV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	709	1	0	23.17	-5.7	15.32	<=34.77	Pass		
			25	23.22	-5.7	15.37	<=34.77	Pass		
			49	23.14	-5.7	15.29	<=34.77	Pass		
		25	0	22.1	-5.7	14.25	<=34.77	Pass		
			13	22.22	-5.7	14.37	<=34.77	Pass		
			25	22.18	-5.7	14.33	<=34.77	Pass		
		50	0	22.15	-5.7	14.3	<=34.77	Pass		
		710	1	0	23.2	-5.7	15.35	<=34.77	Pass	
				25	23.28	-5.7	15.43	<=34.77	Pass	
	49			23.18	-5.7	15.33	<=34.77	Pass		
	25		0	22.18	-5.7	14.33	<=34.77	Pass		
			13	22.19	-5.7	14.34	<=34.77	Pass		
			25	22.23	-5.7	14.38	<=34.77	Pass		
	50		0	22.15	-5.7	14.3	<=34.77	Pass		
	711		1	0	23.15	-5.7	15.3	<=34.77	Pass	
				25	23.26	-5.7	15.41	<=34.77	Pass	
		49		23.15	-5.7	15.3	<=34.77	Pass		
		25	0	22.18	-5.7	14.33	<=34.77	Pass		
			13	22.19	-5.7	14.34	<=34.77	Pass		
			25	22.2	-5.7	14.35	<=34.77	Pass		
		50	0	22.18	-5.7	14.33	<=34.77	Pass		
		16QAM	709	1	0	22.33	-5.7	14.48	<=34.77	Pass
					25	22.27	-5.7	14.42	<=34.77	Pass
	49				22.21	-5.7	14.36	<=34.77	Pass	
25	0			21.11	-5.7	13.26	<=34.77	Pass		
	13			21.24	-5.7	13.39	<=34.77	Pass		
	25			21.2	-5.7	13.35	<=34.77	Pass		
50	0			21.1	-5.7	13.25	<=34.77	Pass		
710	1			0	22.27	-5.7	14.42	<=34.77	Pass	
				25	22.3	-5.7	14.45	<=34.77	Pass	
			49	22.22	-5.7	14.37	<=34.77	Pass		
	25		0	21.16	-5.7	13.31	<=34.77	Pass		
			13	21.17	-5.7	13.32	<=34.77	Pass		
			25	21.23	-5.7	13.38	<=34.77	Pass		
	50		0	21.15	-5.7	13.3	<=34.77	Pass		
	711		1	0	22.38	-5.7	14.53	<=34.77	Pass	
				25	22.44	-5.7	14.59	<=34.77	Pass	
49				22.37	-5.7	14.52	<=34.77	Pass		
25			0	21.22	-5.7	13.37	<=34.77	Pass		
			13	21.19	-5.7	13.34	<=34.77	Pass		



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			25	21.24	-5.7	13.39	<=34.77	Pass
		50	0	21.16	-5.7	13.31	<=34.77	Pass
64QAM	709	1	0	21.35	-5.7	13.5	<=34.77	Pass
			25	21.45	-5.7	13.6	<=34.77	Pass
			49	21.35	-5.7	13.5	<=34.77	Pass
		25	0	20.13	-5.7	12.28	<=34.77	Pass
			13	20.25	-5.7	12.4	<=34.77	Pass
			25	20.18	-5.7	12.33	<=34.77	Pass
	50	0	20.14	-5.7	12.29	<=34.77	Pass	
	710	1	0	21.32	-5.7	13.47	<=34.77	Pass
			25	21.41	-5.7	13.56	<=34.77	Pass
			49	21.28	-5.7	13.43	<=34.77	Pass
		25	0	20.19	-5.7	12.34	<=34.77	Pass
			13	20.21	-5.7	12.36	<=34.77	Pass
			25	20.23	-5.7	12.38	<=34.77	Pass
	50	0	20.18	-5.7	12.33	<=34.77	Pass	
	711	1	0	21.3	-5.7	13.45	<=34.77	Pass
			25	21.4	-5.7	13.55	<=34.77	Pass
			49	21.24	-5.7	13.39	<=34.77	Pass
		25	0	20.2	-5.7	12.35	<=34.77	Pass
			13	20.18	-5.7	12.33	<=34.77	Pass
			25	20.22	-5.7	12.37	<=34.77	Pass
	50	0	20.17	-5.7	12.32	<=34.77	Pass	
Note1: ERP=Conducted Power+Antenna Gain-2.15								



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2. Frequency Stability

2.1 B17_5MHz

2.1.1 Test Result

Band: 17 / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	706.5	25	0	20	3.5	0.130	0.0002	/	Pass
					3.91	-0.396	-0.0006	/	Pass
					4.35	-0.484	-0.0007	/	Pass
				-30	3.91	-1.289	-0.0018	/	Pass
				-20	3.91	0.360	0.0005	/	Pass
				-10	3.91	0.492	0.0007	/	Pass
				0	3.91	-0.270	-0.0004	/	Pass
				10	3.91	0.276	0.0004	/	Pass
				30	3.91	-0.169	-0.0002	/	Pass
				40	3.91	-0.497	-0.0007	/	Pass
	50	3.91	-0.058	-0.0001	/	Pass			
	710	25	0	20	3.5	2.642	0.0037	/	Pass
					3.91	2.177	0.0031	/	Pass
					4.35	2.108	0.0030	/	Pass
				-30	3.91	1.147	0.0016	/	Pass
				-20	3.91	1.838	0.0026	/	Pass
				-10	3.91	0.721	0.0010	/	Pass
				0	3.91	1.014	0.0014	/	Pass
				10	3.91	1.351	0.0019	/	Pass
				30	3.91	0.966	0.0014	/	Pass
				40	3.91	0.273	0.0004	/	Pass
	50	3.91	0.282	0.0004	/	Pass			
	713.5	25	0	20	3.5	1.834	0.0026	/	Pass
					3.91	1.833	0.0026	/	Pass
					4.35	0.813	0.0011	/	Pass
				-30	3.91	0.674	0.0009	/	Pass
				-20	3.91	0.376	0.0005	/	Pass
				-10	3.91	1.096	0.0015	/	Pass
				0	3.91	1.042	0.0015	/	Pass
				10	3.91	1.285	0.0018	/	Pass
30				3.91	0.729	0.0010	/	Pass	
40				3.91	0.021	0.0000	/	Pass	
50	3.91	0.049	0.0001	/	Pass				
16QAM	706.5	25	0	20	3.5	-1.121	-0.0016	/	Pass
					3.91	-0.174	-0.0002	/	Pass
				-30	4.35	-0.819	-0.0012	/	Pass
					3.91	-0.644	-0.0009	/	Pass
					3.91	-0.009	0.0000	/	Pass



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64QAM	710	25	0	-10	3.91	-0.444	-0.0006	/	Pass			
				0	3.91	0.055	0.0001	/	Pass			
				10	3.91	-0.333	-0.0005	/	Pass			
				30	3.91	-0.781	-0.0011	/	Pass			
				40	3.91	-0.284	-0.0004	/	Pass			
				50	3.91	-0.533	-0.0008	/	Pass			
	713.5	25	0	20	3.5	0.594	0.0008	/	Pass			
					3.91	0.610	0.0009	/	Pass			
					4.35	0.726	0.0010	/	Pass			
				-30	3.91	0.270	0.0004	/	Pass			
				-20	3.91	0.427	0.0006	/	Pass			
				-10	3.91	0.308	0.0004	/	Pass			
				0	3.91	0.754	0.0011	/	Pass			
				10	3.91	0.225	0.0003	/	Pass			
				30	3.91	-0.420	-0.0006	/	Pass			
				40	3.91	-0.196	-0.0003	/	Pass			
				50	3.91	0.151	0.0002	/	Pass			
				706.5	25	0	20	3.5	0.841	0.0012	/	Pass
								3.91	0.216	0.0003	/	Pass
								4.35	-0.319	-0.0004	/	Pass
	-30	3.91	0.645				0.0009	/	Pass			
	-20	3.91	0.522				0.0007	/	Pass			
	-10	3.91	0.122				0.0002	/	Pass			
	0	3.91	0.435				0.0006	/	Pass			
	10	3.91	-0.343				-0.0005	/	Pass			
	30	3.91	0.355				0.0005	/	Pass			
	40	3.91	0.308				0.0004	/	Pass			
	50	3.91	0.751				0.0011	/	Pass			
	710	25	0				20	3.5	-0.219	-0.0003	/	Pass
								3.91	-0.196	-0.0003	/	Pass
								4.35	0.068	0.0001	/	Pass
				-30	3.91	-1.141	-0.0016	/	Pass			
				-20	3.91	-1.263	-0.0018	/	Pass			
				-10	3.91	-0.200	-0.0003	/	Pass			
				0	3.91	-0.374	-0.0005	/	Pass			
10				3.91	-0.629	-0.0009	/	Pass				
30				3.91	-1.460	-0.0021	/	Pass				
40				3.91	-0.361	-0.0005	/	Pass				
50				3.91	-0.664	-0.0009	/	Pass				
710				25	0	20	3.5	0.699	0.0010	/	Pass	
							3.91	-0.064	-0.0001	/	Pass	
							4.35	0.895	0.0013	/	Pass	
	-30	3.91	0.337			0.0005	/	Pass				
	-20	3.91	-0.005			0.0000	/	Pass				
	-10	3.91	0.387			0.0005	/	Pass				
	0	3.91	0.513			0.0007	/	Pass				
	10	3.91	-0.640			-0.0009	/	Pass				
	30	3.91	-0.274			-0.0004	/	Pass				
	40	3.91	0.137			0.0002	/	Pass				
	50	3.91	-0.613			-0.0009	/	Pass				



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713.5	25	0	20	3.5	-0.764	-0.0011	/	Pass
				3.91	-0.326	-0.0005	/	Pass
				4.35	-0.671	-0.0009	/	Pass
			-30	3.91	0.148	0.0002	/	Pass
			-20	3.91	-0.520	-0.0007	/	Pass
			-10	3.91	-0.957	-0.0013	/	Pass
			0	3.91	0.191	0.0003	/	Pass
			10	3.91	0.278	0.0004	/	Pass
			30	3.91	-0.325	-0.0005	/	Pass
			40	3.91	0.391	0.0005	/	Pass
		50	3.91	-0.393	-0.0006	/	Pass	



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2.2 B17_10MHz

2.2.1 Test Result

Band: 17 / Bandwidth: 10MHz										
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict	
		Size	Offset				Result	Limit		
QPSK	709	50	0	20	3.5	0.479	0.0007	/	Pass	
					3.91	0.310	0.0004	/	Pass	
					4.35	0.761	0.0011	/	Pass	
				-30	3.91	0.037	0.0001	/	Pass	
					-20	3.91	-0.093	-0.0001	/	Pass
					-10	3.91	0.835	0.0012	/	Pass
				0	3.91	-0.064	-0.0001	/	Pass	
					10	3.91	0.169	0.0002	/	Pass
					30	3.91	0.380	0.0005	/	Pass
	40	3.91	0.750		0.0011	/	Pass			
	50	3.91	0.822		0.0012	/	Pass			
	710	50	0	20	3.5	-0.667	-0.0009	/	Pass	
					3.91	0.018	0.0000	/	Pass	
					4.35	-0.297	-0.0004	/	Pass	
				-30	3.91	-0.496	-0.0007	/	Pass	
					-20	3.91	-0.515	-0.0007	/	Pass
					-10	3.91	-0.274	-0.0004	/	Pass
				0	3.91	-0.131	-0.0002	/	Pass	
					10	3.91	-0.169	-0.0002	/	Pass
					30	3.91	-0.366	-0.0005	/	Pass
	40	3.91	-0.712		-0.0010	/	Pass			
	50	3.91	0.111		0.0002	/	Pass			
	711	50	0	20	3.5	-0.657	-0.0009	/	Pass	
					3.91	-0.416	-0.0006	/	Pass	
					4.35	0.617	0.0009	/	Pass	
				-30	3.91	-0.013	0.0000	/	Pass	
					-20	3.91	0.059	0.0001	/	Pass
-10					3.91	0.219	0.0003	/	Pass	
0				3.91	-0.316	-0.0004	/	Pass		
				10	3.91	-0.031	0.0000	/	Pass	
				30	3.91	-0.936	-0.0013	/	Pass	
	40	3.91	-0.735	-0.0010	/	Pass				
	50	3.91	-0.805	-0.0011	/	Pass				
16QAM	709	50	0	20	3.5	0.486	0.0007	/	Pass	
					3.91	1.181	0.0017	/	Pass	
					4.35	0.883	0.0012	/	Pass	
				-30	3.91	0.779	0.0011	/	Pass	
					-20	3.91	1.583	0.0022	/	Pass
					-10	3.91	0.585	0.0008	/	Pass
0	3.91	0.612	0.0009	/	Pass					



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64QAM	710	50	0	10	3.91	-0.124	-0.0002	/	Pass			
				30	3.91	-0.086	-0.0001	/	Pass			
				40	3.91	0.609	0.0009	/	Pass			
				50	3.91	-0.334	-0.0005	/	Pass			
				20	3.5	0.094	0.0001	/	Pass			
					3.91	0.055	0.0001	/	Pass			
					4.35	-0.130	-0.0002	/	Pass			
				-30	3.91	0.491	0.0007	/	Pass			
				-20	3.91	-0.244	-0.0003	/	Pass			
				-10	3.91	-0.869	-0.0012	/	Pass			
				0	3.91	-0.899	-0.0013	/	Pass			
				10	3.91	-0.562	-0.0008	/	Pass			
				30	3.91	-0.579	-0.0008	/	Pass			
				40	3.91	-0.604	-0.0009	/	Pass			
	50	3.91	-0.806	-0.0011	/	Pass						
	711	50	0	20	3.5	0.107	0.0002	/	Pass			
					3.91	-1.028	-0.0014	/	Pass			
					4.35	-0.406	-0.0006	/	Pass			
				-30	3.91	-1.055	-0.0015	/	Pass			
				-20	3.91	-0.982	-0.0014	/	Pass			
				-10	3.91	-1.523	-0.0021	/	Pass			
				0	3.91	-0.955	-0.0013	/	Pass			
				10	3.91	-0.677	-0.0010	/	Pass			
				30	3.91	0.115	0.0002	/	Pass			
				40	3.91	-0.763	-0.0011	/	Pass			
				50	3.91	-1.347	-0.0019	/	Pass			
				709	50	0	20	3.5	-0.631	-0.0009	/	Pass
								3.91	-0.018	0.0000	/	Pass
4.35								-0.072	-0.0001	/	Pass	
-30	3.91	0.721	0.0010				/	Pass				
-20	3.91	0.006	0.0000				/	Pass				
-10	3.91	0.952	0.0013				/	Pass				
0	3.91	0.928	0.0013				/	Pass				
10	3.91	0.575	0.0008				/	Pass				
30	3.91	0.876	0.0012				/	Pass				
40	3.91	0.043	0.0001				/	Pass				
50	3.91	0.433	0.0006				/	Pass				
710	50	0	20				3.5	-0.628	-0.0009	/	Pass	
							3.91	0.374	0.0005	/	Pass	
							4.35	-0.356	-0.0005	/	Pass	
			-30	3.91	-0.286	-0.0004	/	Pass				
			-20	3.91	-0.332	-0.0005	/	Pass				
			-10	3.91	-0.587	-0.0008	/	Pass				
			0	3.91	0.100	0.0001	/	Pass				
			10	3.91	-0.226	-0.0003	/	Pass				
			30	3.91	0.115	0.0002	/	Pass				
			40	3.91	-0.275	-0.0004	/	Pass				
			50	3.91	0.340	0.0005	/	Pass				
			711	50	0	20	3.5	-0.341	-0.0005	/	Pass	
							3.91	-0.329	-0.0005	/	Pass	



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				4.35	-0.239	-0.0003	/	Pass	
				-30	3.91	-0.093	-0.0001	/	Pass
				-20	3.91	-0.752	-0.0011	/	Pass
				-10	3.91	-0.738	-0.0010	/	Pass
				0	3.91	-0.425	-0.0006	/	Pass
				10	3.91	-0.101	-0.0001	/	Pass
				30	3.91	-0.210	-0.0003	/	Pass
				40	3.91	-1.186	-0.0017	/	Pass
				50	3.91	-1.094	-0.0015	/	Pass



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3. 99% & 26dB Bandwidth

3.1 Band17_OBW

3.1.1 Test Result

Band: 17 / NTV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	706.5	25	0	4.599	/	Pass
		710	25	0	4.587	/	Pass
		713.5	25	0	4.578	/	Pass
	16QAM	706.5	25	0	4.573	/	Pass
		710	25	0	4.576	/	Pass
		713.5	25	0	4.589	/	Pass
	64QAM	706.5	25	0	4.567	/	Pass
		710	25	0	4.582	/	Pass
		713.5	25	0	4.578	/	Pass
10	QPSK	709	50	0	9.070	/	Pass
		710	50	0	9.066	/	Pass
		711	50	0	9.062	/	Pass
	16QAM	709	50	0	9.079	/	Pass
		710	50	0	9.045	/	Pass
		711	50	0	9.064	/	Pass
	64QAM	709	50	0	9.056	/	Pass
		710	50	0	9.057	/	Pass
		711	50	0	9.048	/	Pass

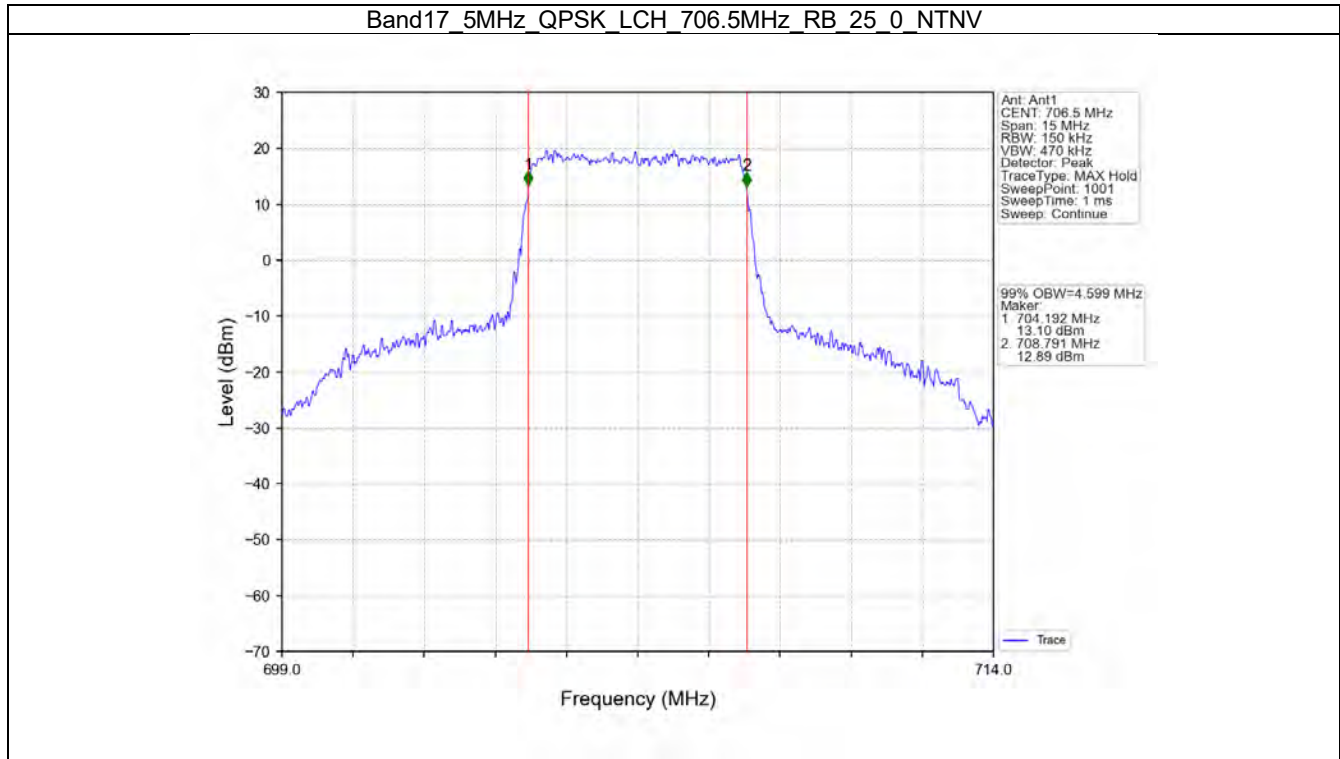


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3.1.2 Test Graph

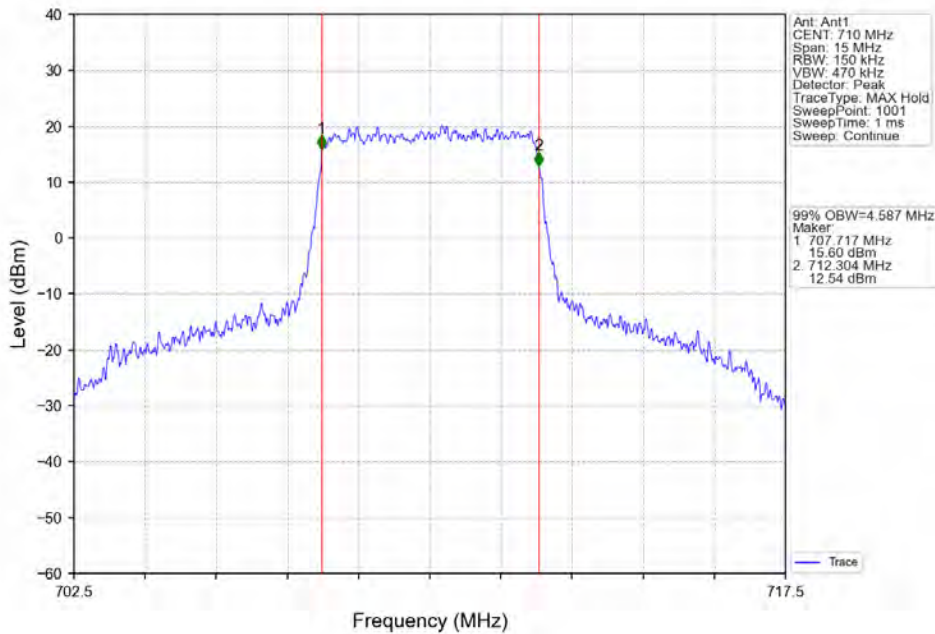


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Band17_5MHz_QPSK_MCH_710MHz_RB_25_0_NTNV

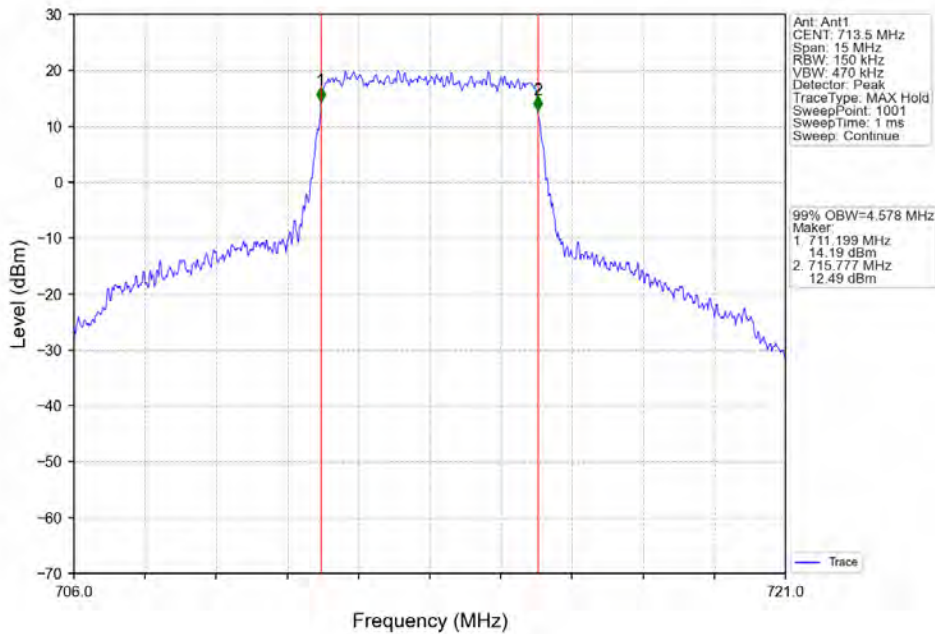


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Band17_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV

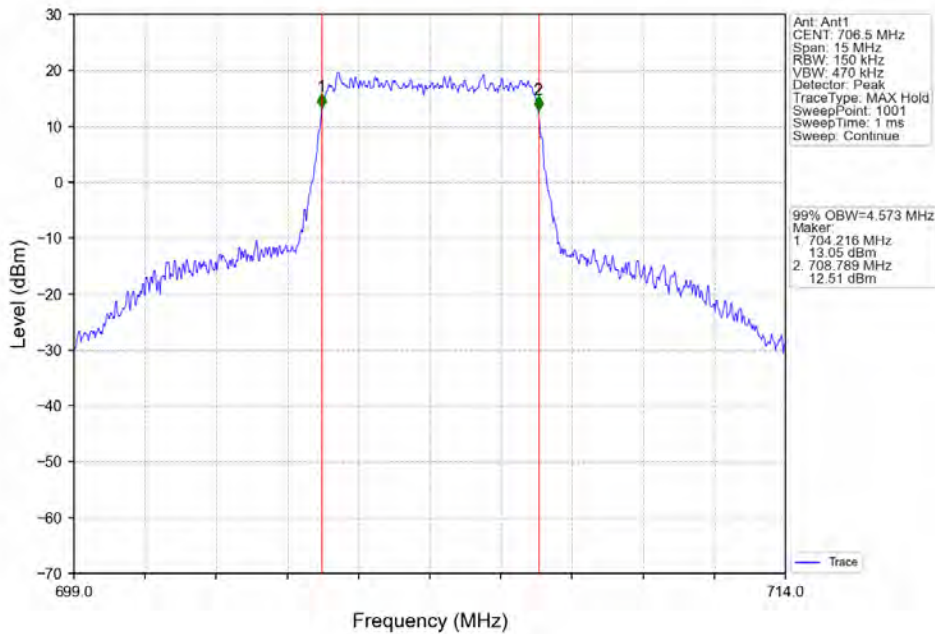


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Band17_5MHz_16QAM_LCH_706.5MHz_RB_25_0_NTNV

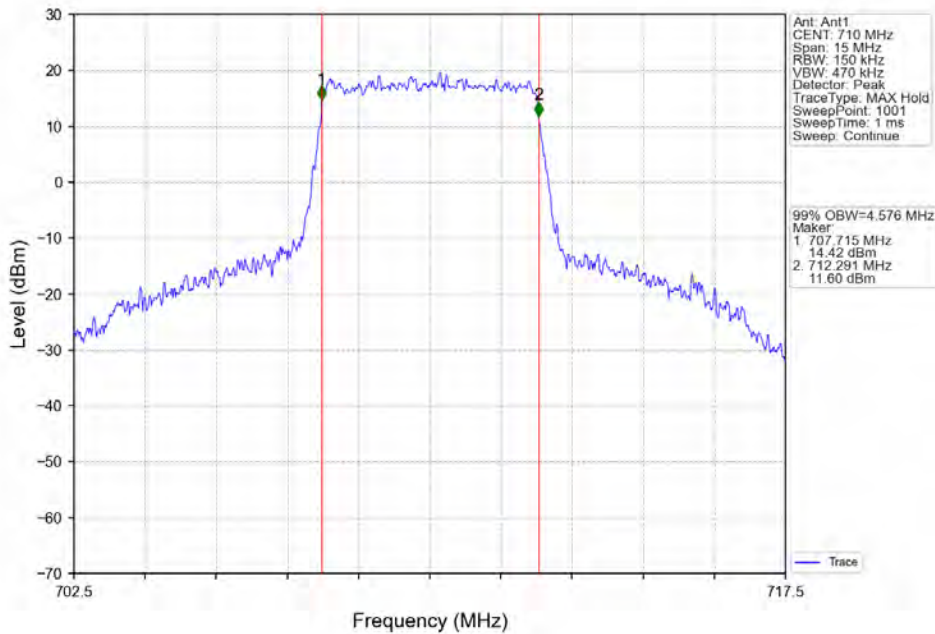


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Band17_5MHz_16QAM_MCH_710MHz_RB_25_0_NTNV



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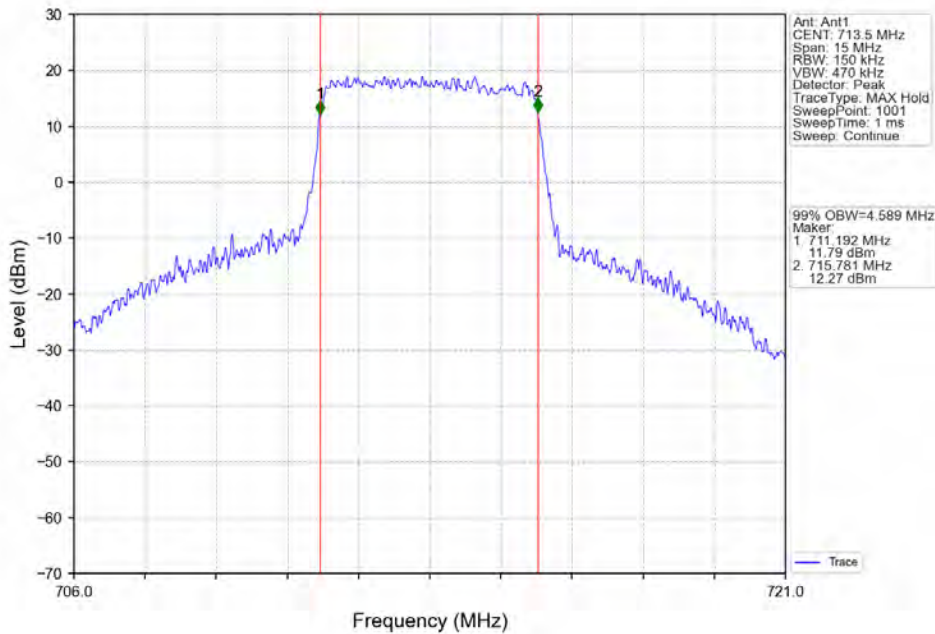
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Band17_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



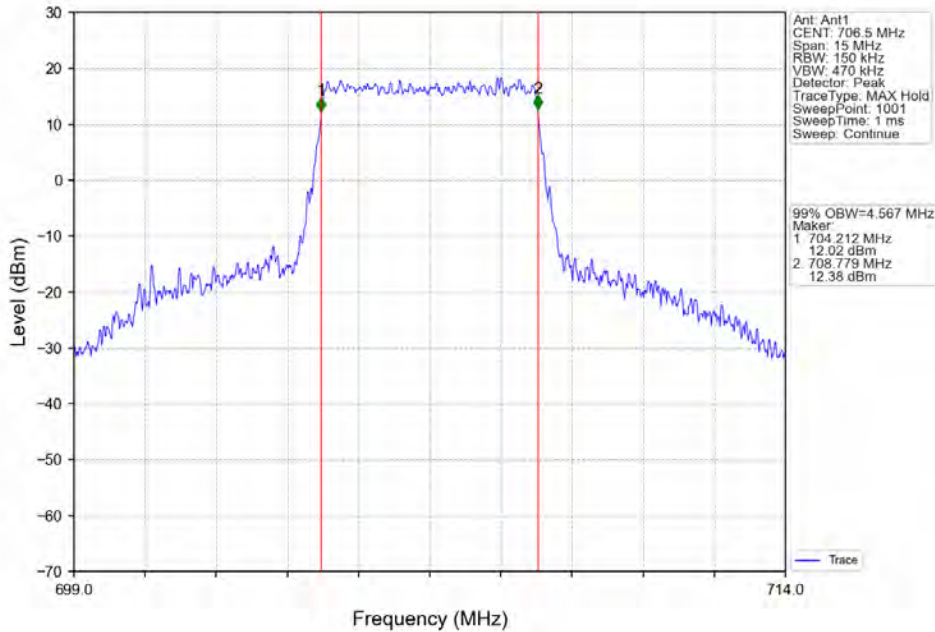
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Band17_5MHz_64QAM_LCH_706.5MHz_RB_25_0_NTNV



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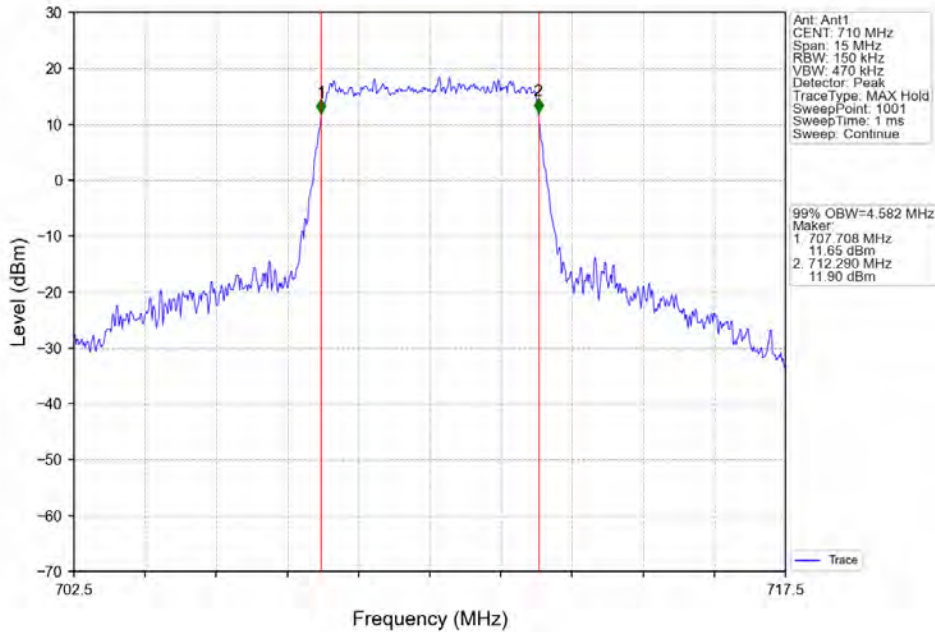
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Band17_5MHz_64QAM_MCH_710MHz_RB_25_0_NTNV



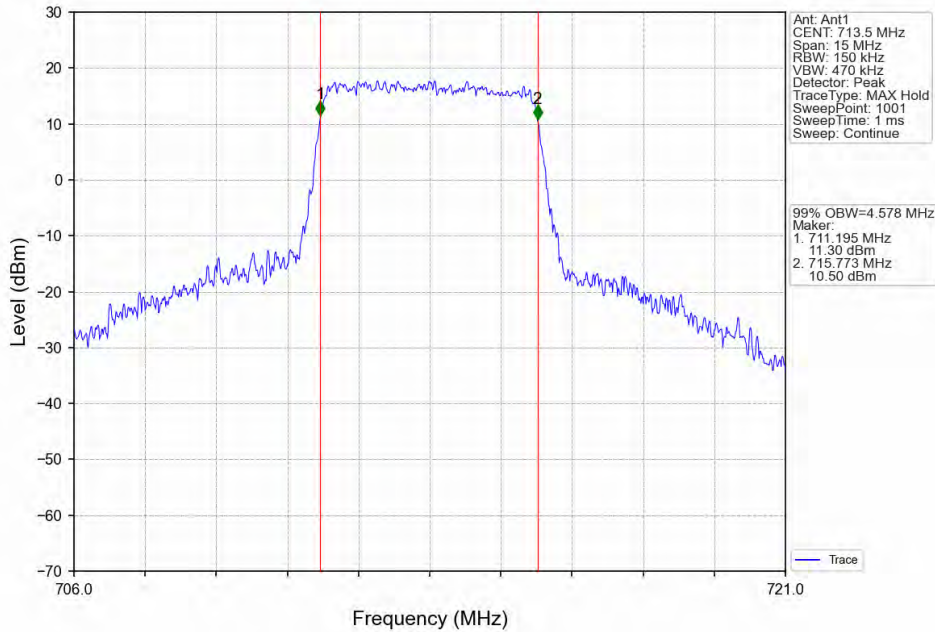
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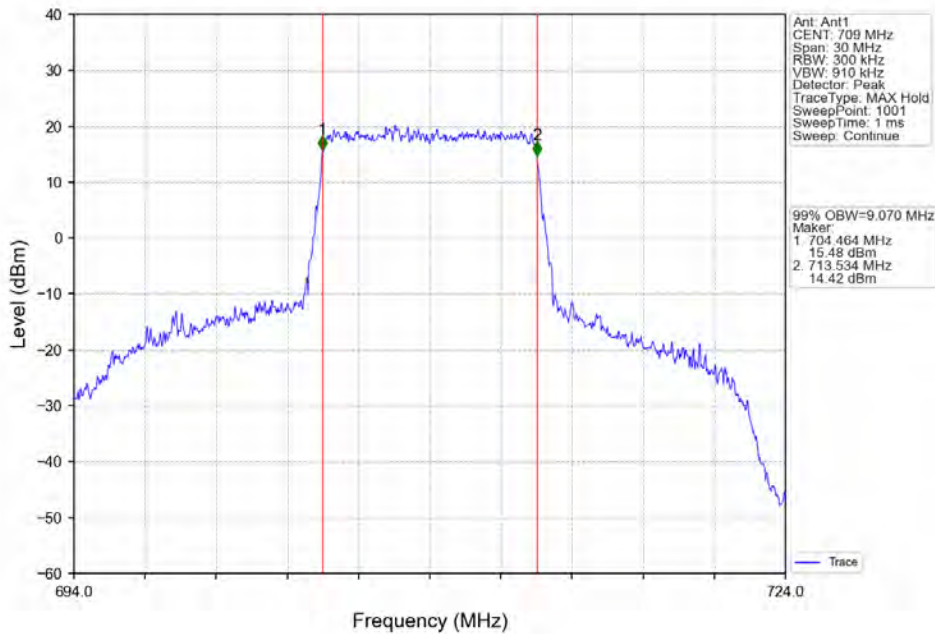


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Band17_10MHz_QPSK_LCH_709MHz_RB_50_0_NTNV

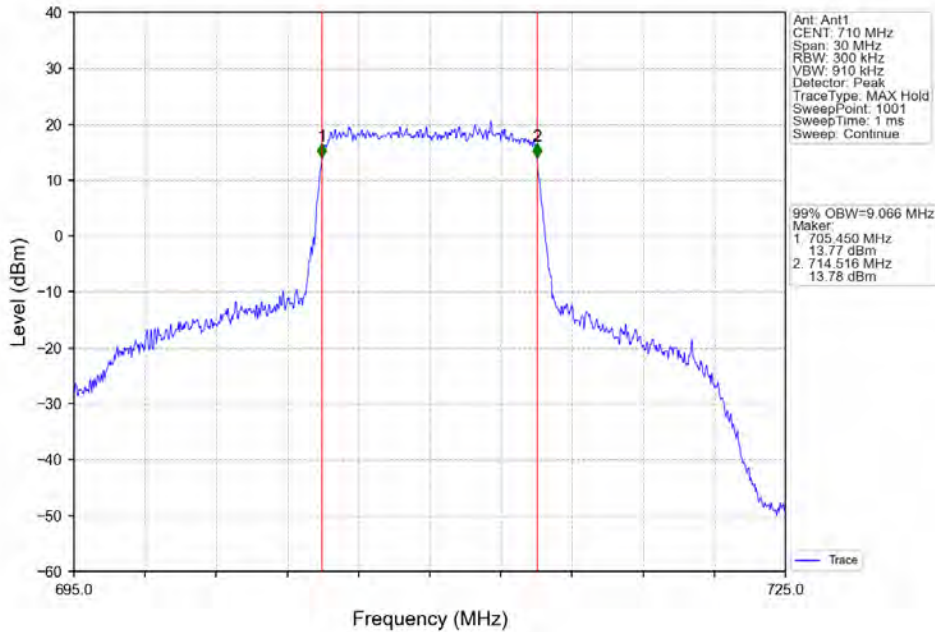


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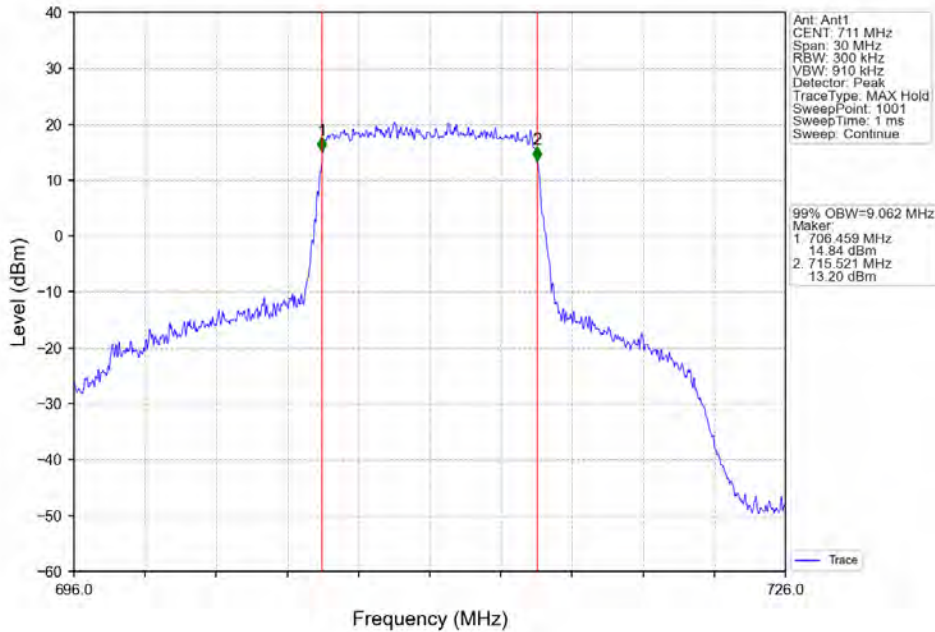
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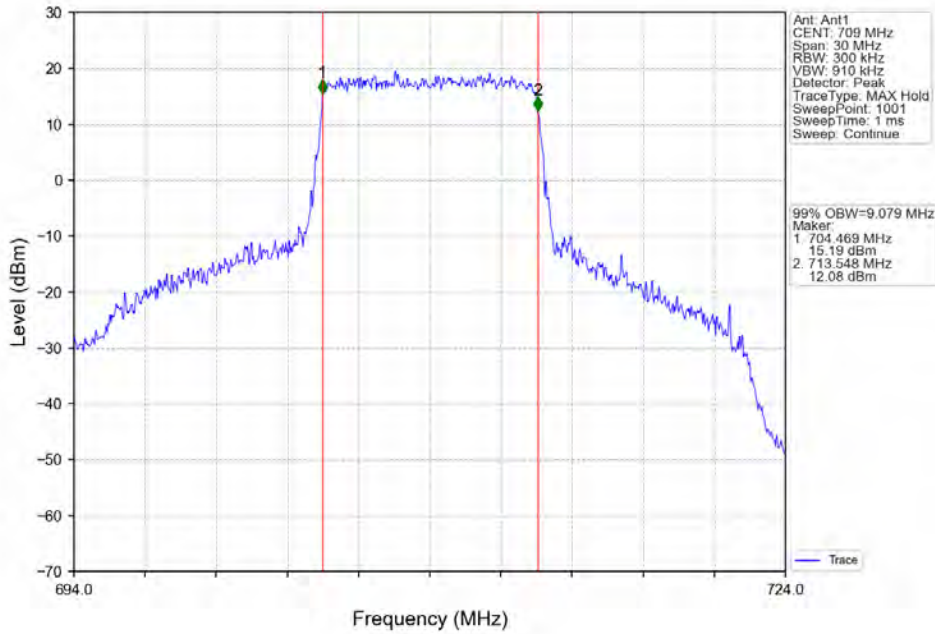
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Band17_10MHz_16QAM_LCH_709MHz_RB_50_0_NTNV

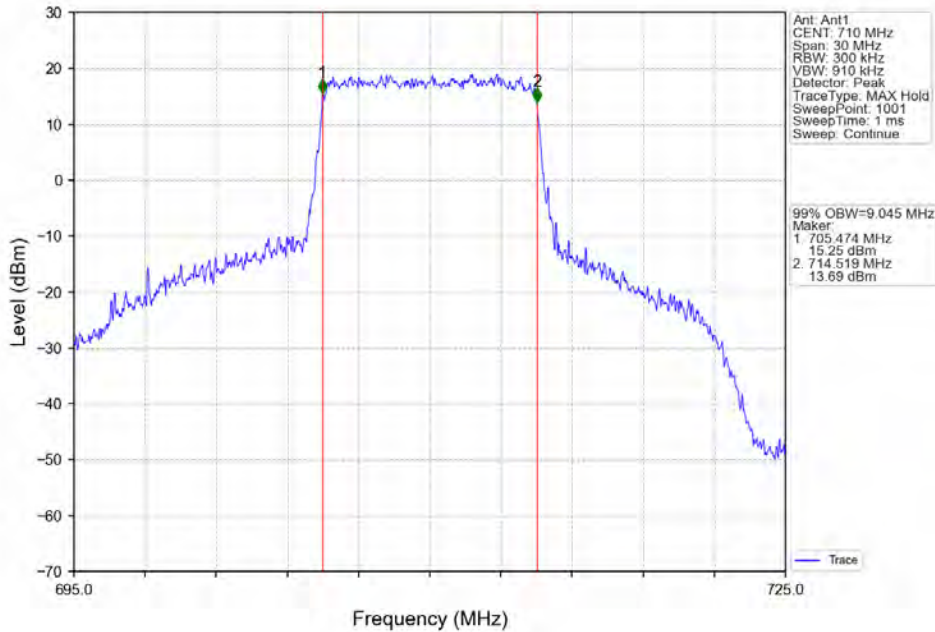


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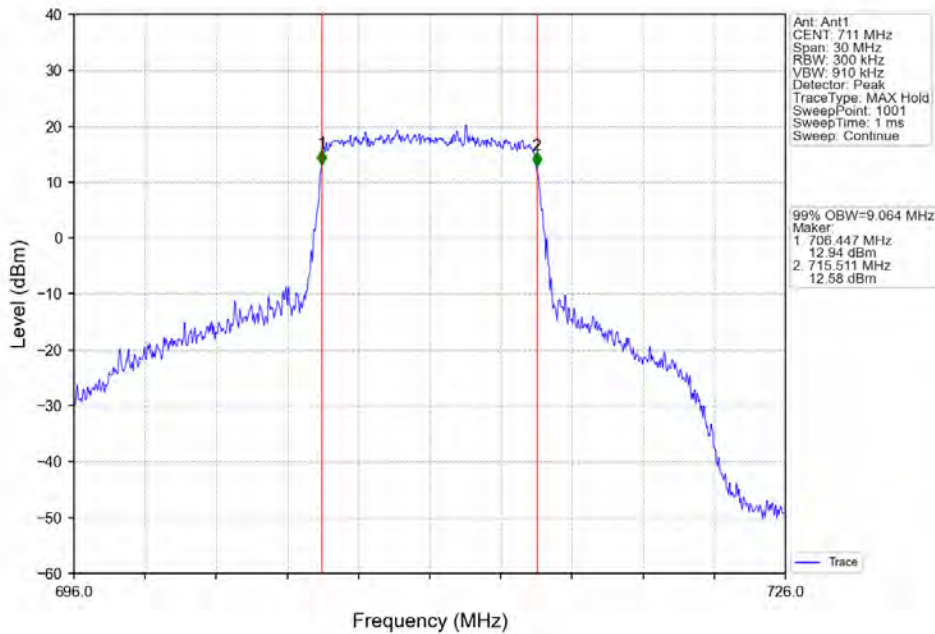
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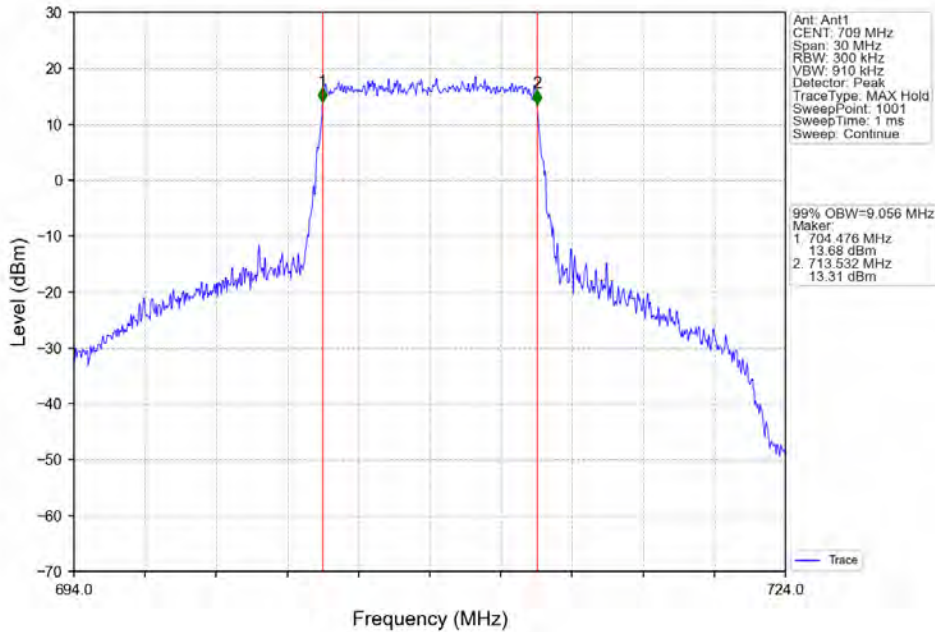
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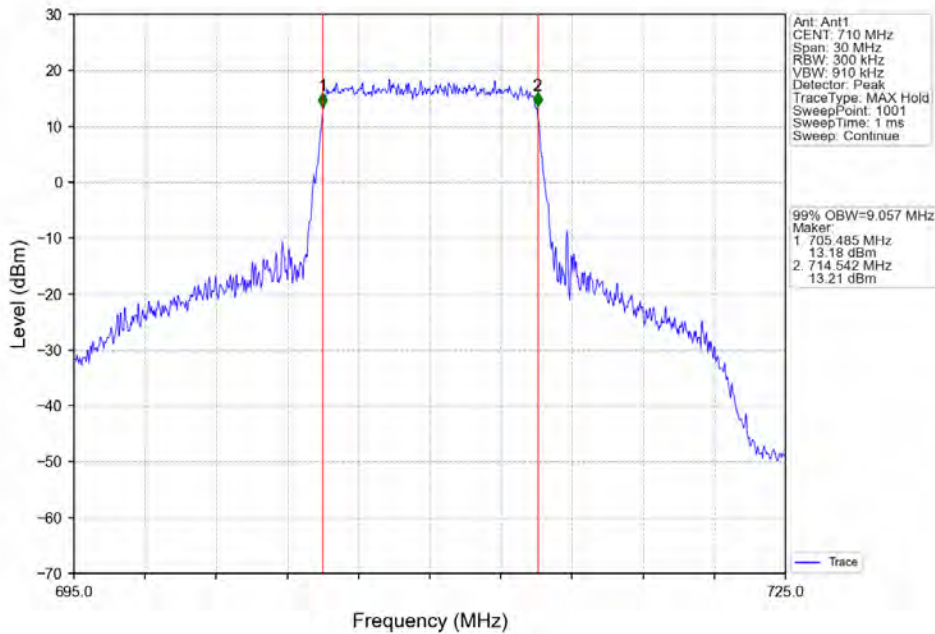
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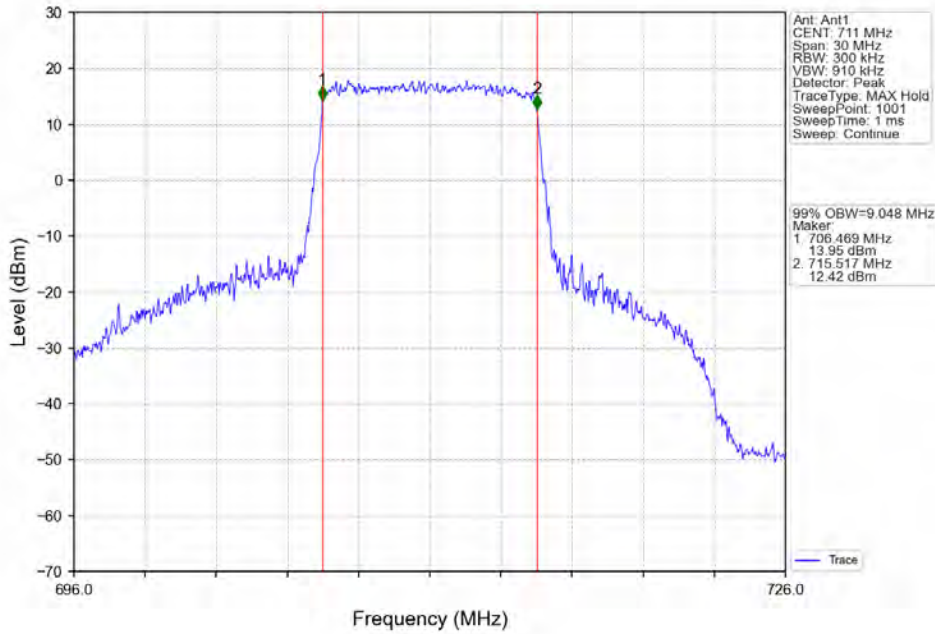


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Band17_10MHz_64QAM_HCH_711MHz_RB_50_0_NTNV



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3.2 Band17_XDB

3.2.1 Test Result

Band: 17 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	706.5	25	0	5.282	/	Pass
		710	25	0	5.208	/	Pass
		713.5	25	0	5.308	/	Pass
	16QAM	706.5	25	0	5.249	/	Pass
		710	25	0	5.221	/	Pass
		713.5	25	0	5.259	/	Pass
	64QAM	706.5	25	0	5.223	/	Pass
		710	25	0	5.242	/	Pass
		713.5	25	0	5.244	/	Pass
10	QPSK	709	50	0	10.269	/	Pass
		710	50	0	10.115	/	Pass
		711	50	0	10.144	/	Pass
	16QAM	709	50	0	10.157	/	Pass
		710	50	0	10.226	/	Pass
		711	50	0	10.085	/	Pass
	64QAM	709	50	0	10.184	/	Pass
		710	50	0	10.128	/	Pass
		711	50	0	10.232	/	Pass

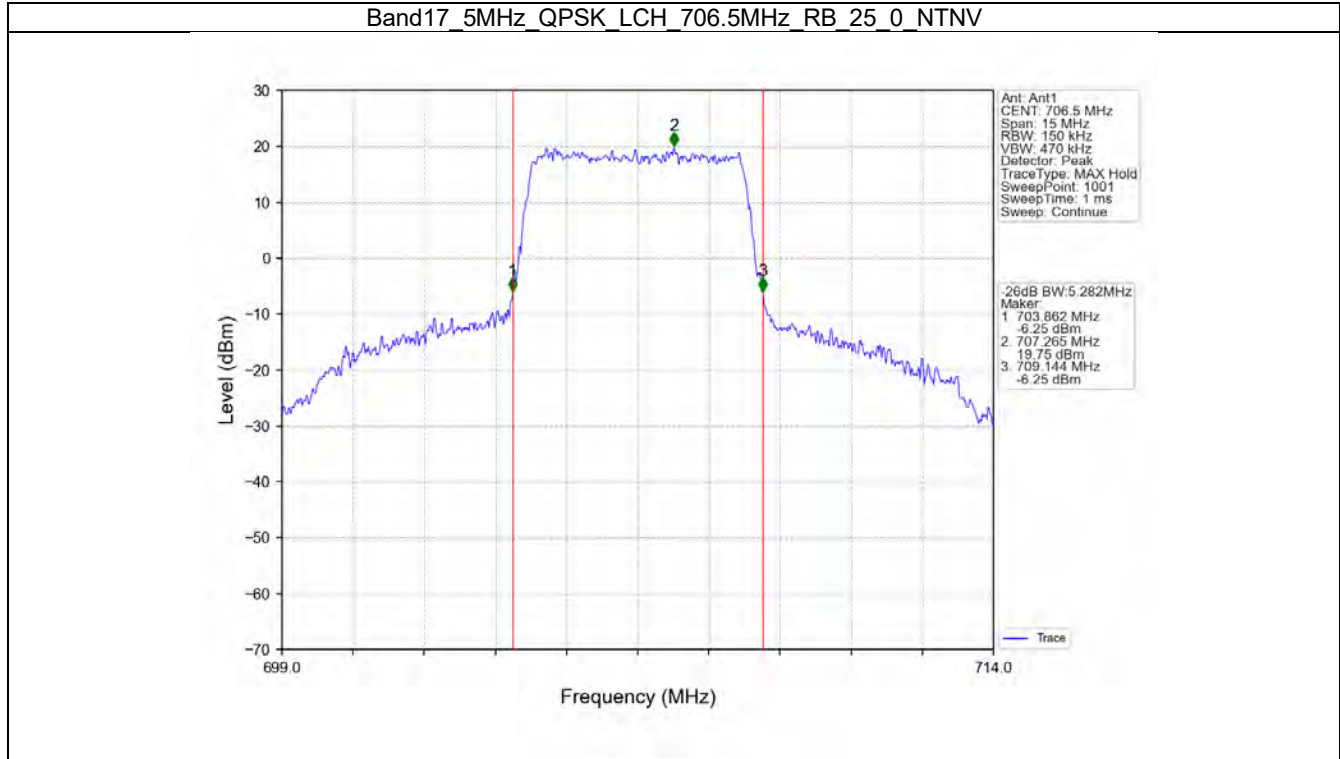


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3.2.2 Test Graph

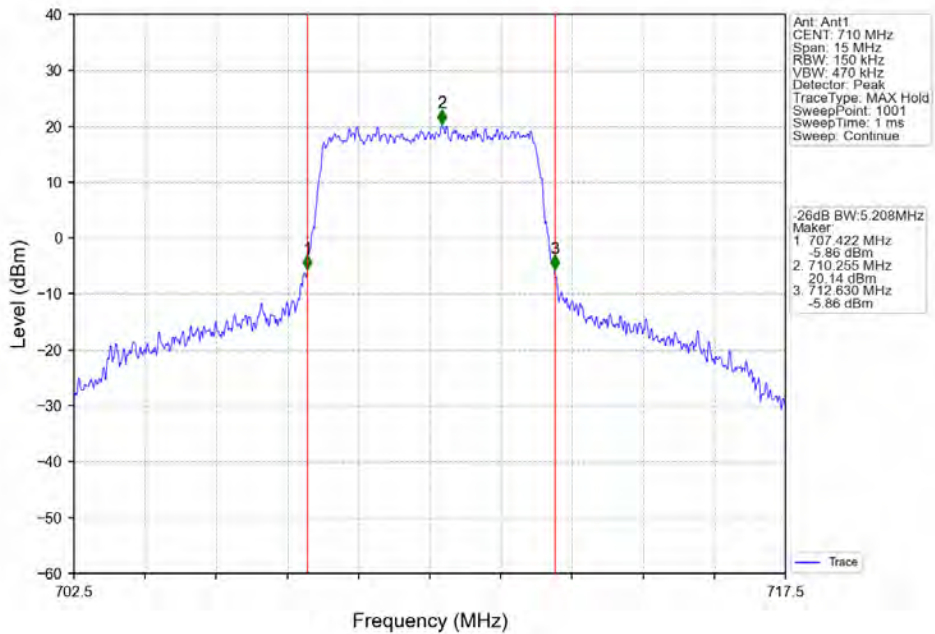


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Band17_5MHz QPSK MCH_710MHz_RB_25_0_NTNV

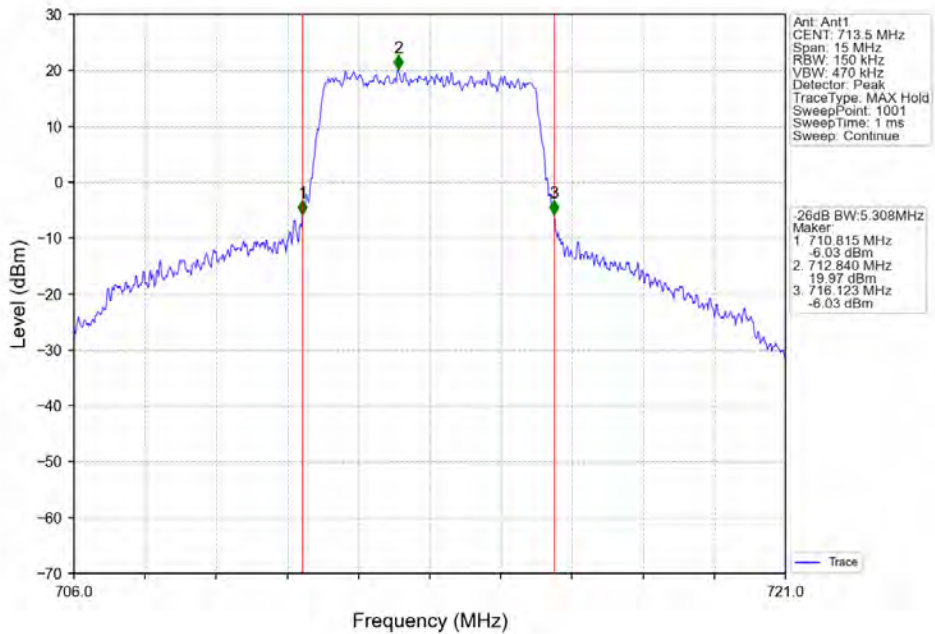


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Band17_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV

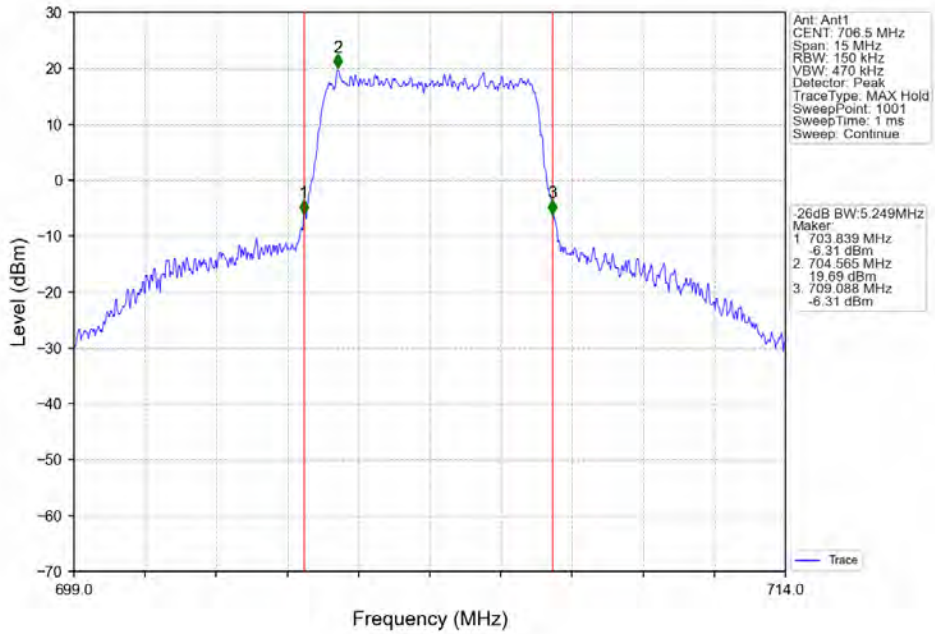


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Band17_5MHz_16QAM_LCH_706.5MHz_RB_25_0_NTNV



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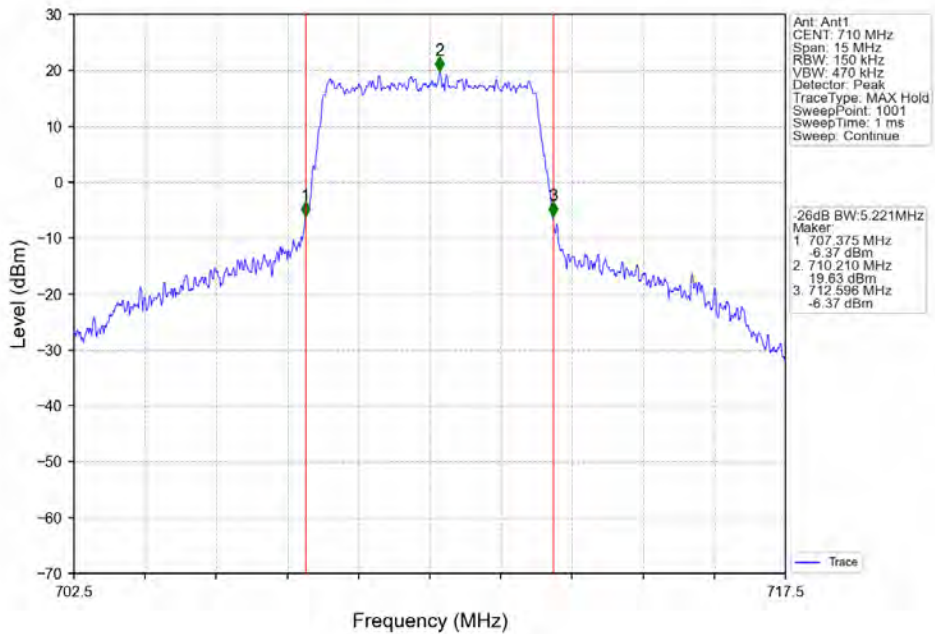
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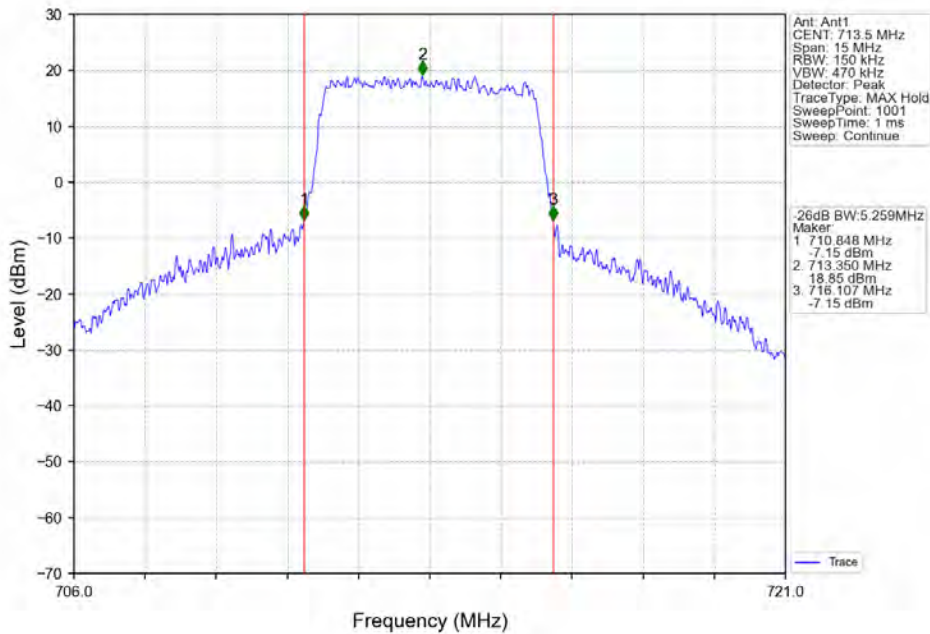
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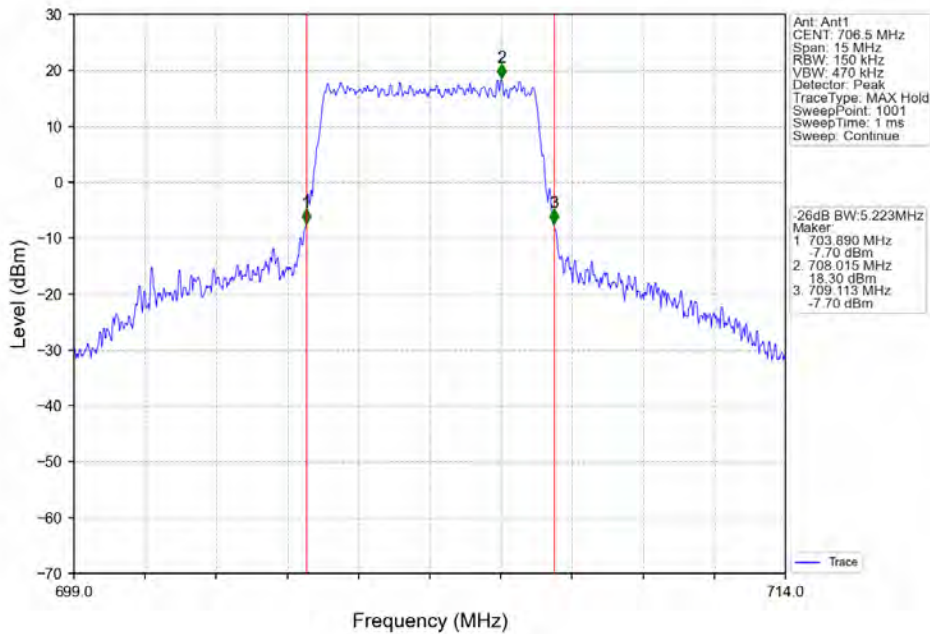
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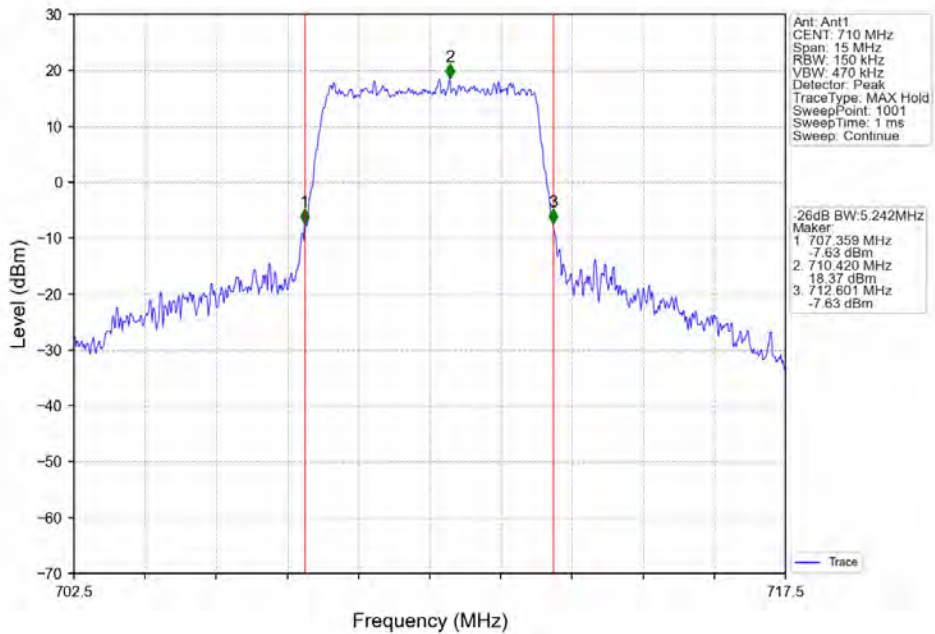
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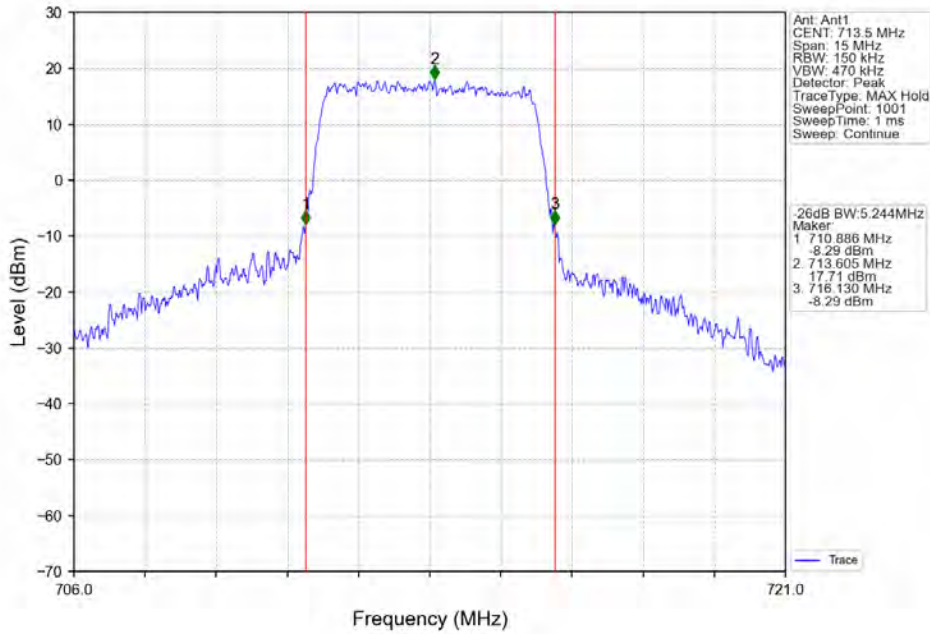
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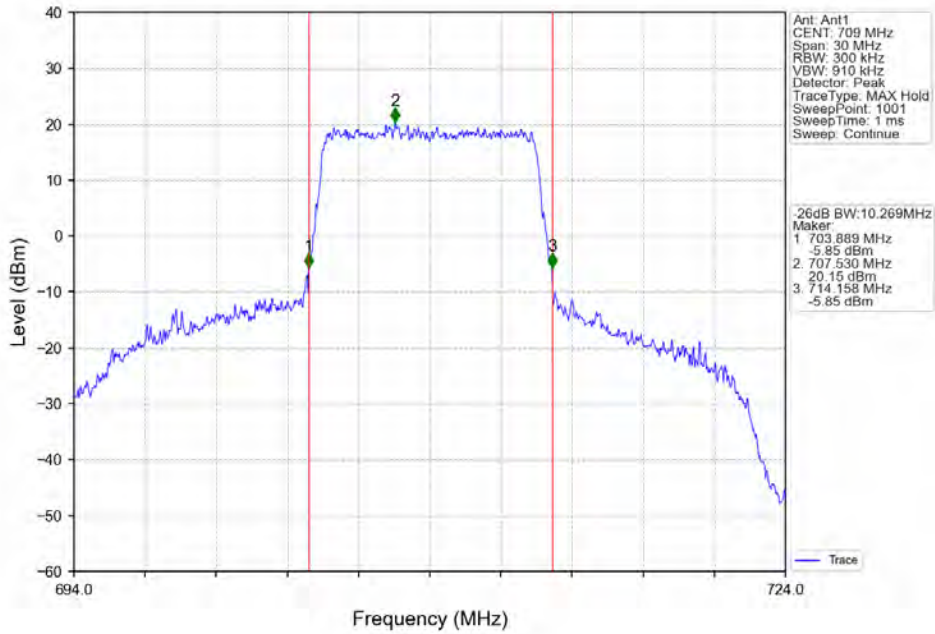
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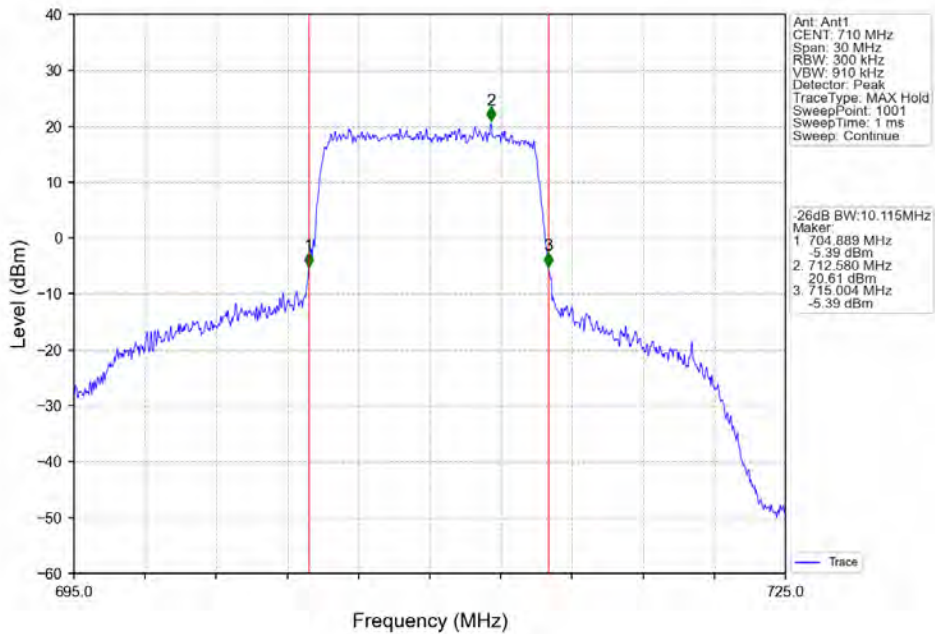


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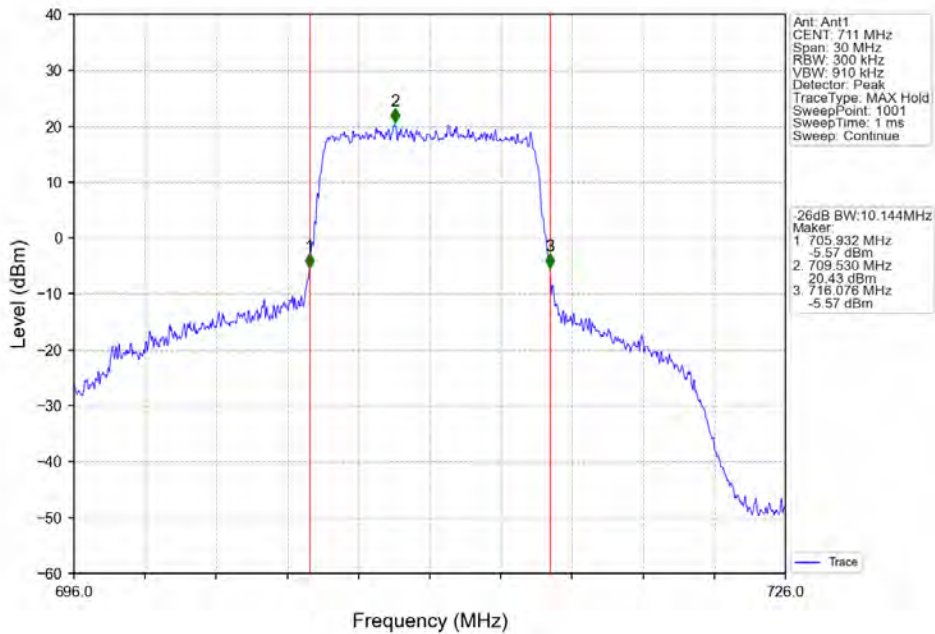


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Band17_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV

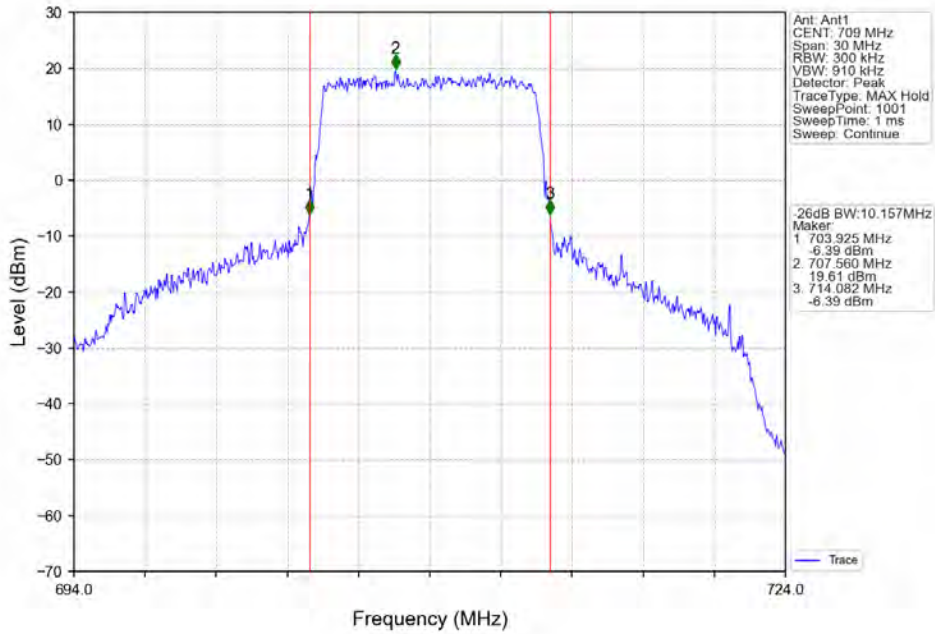


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Band17_10MHz_16QAM_LCH_709MHz_RB_50_0_NTNV

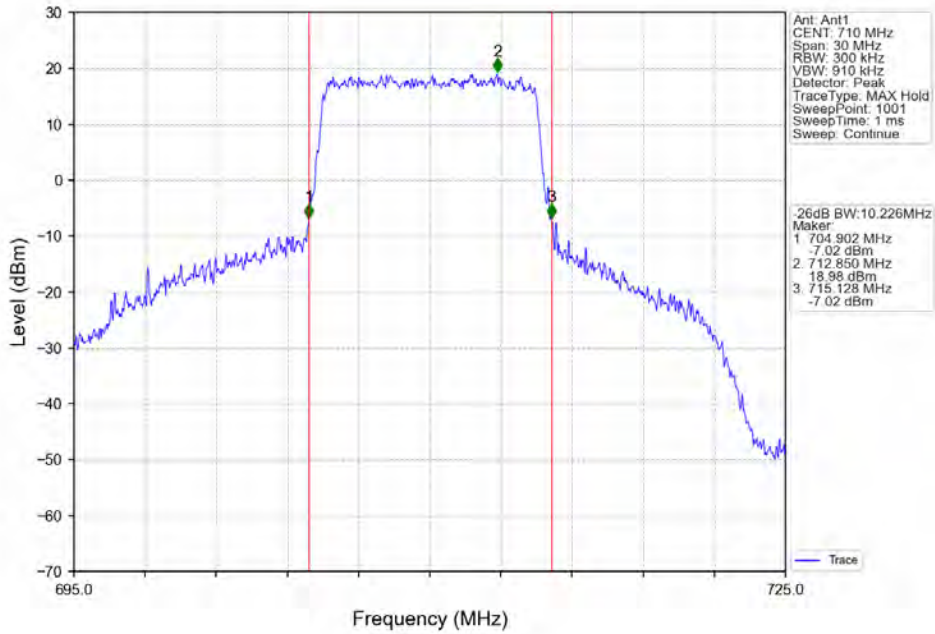


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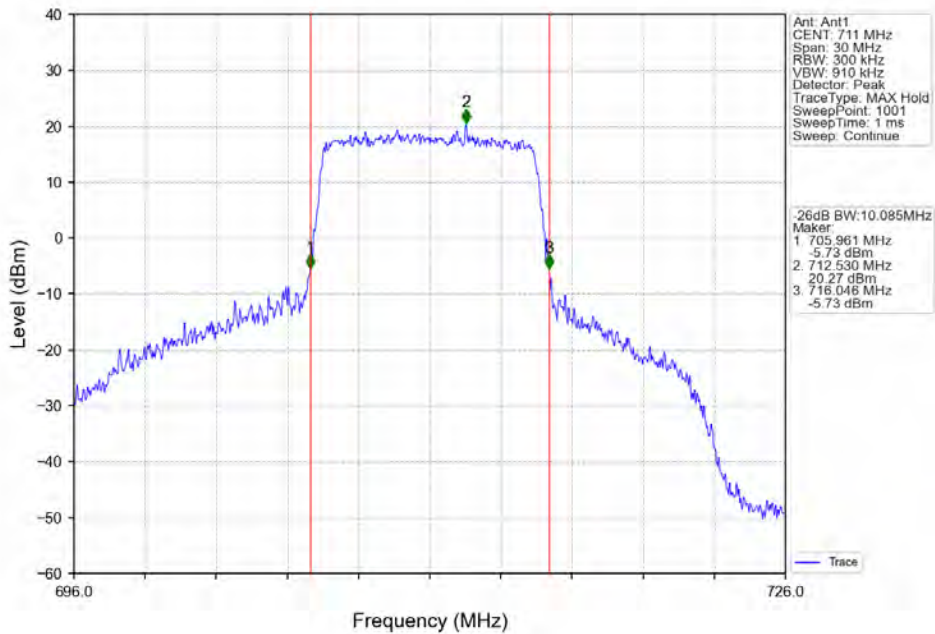


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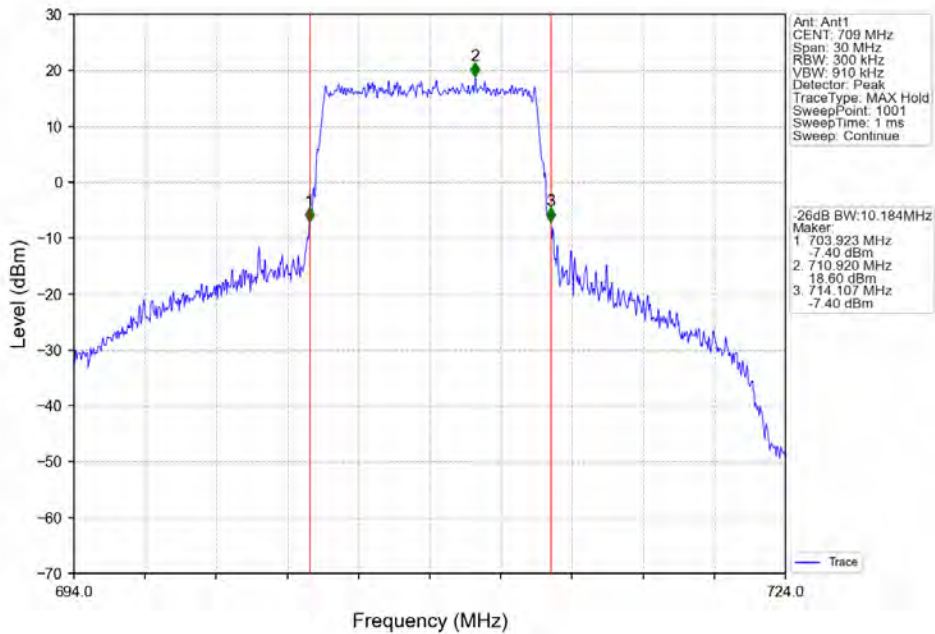


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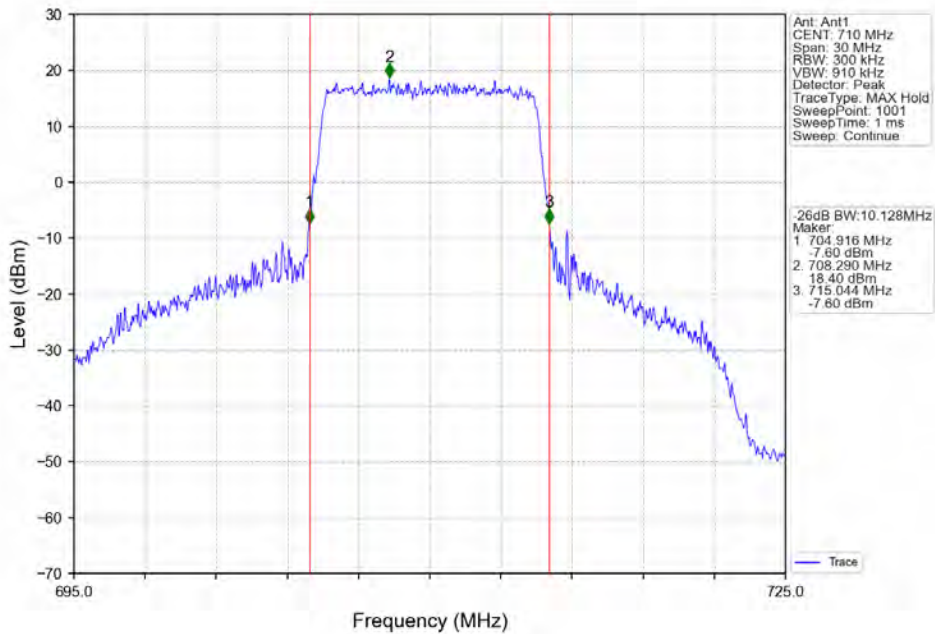


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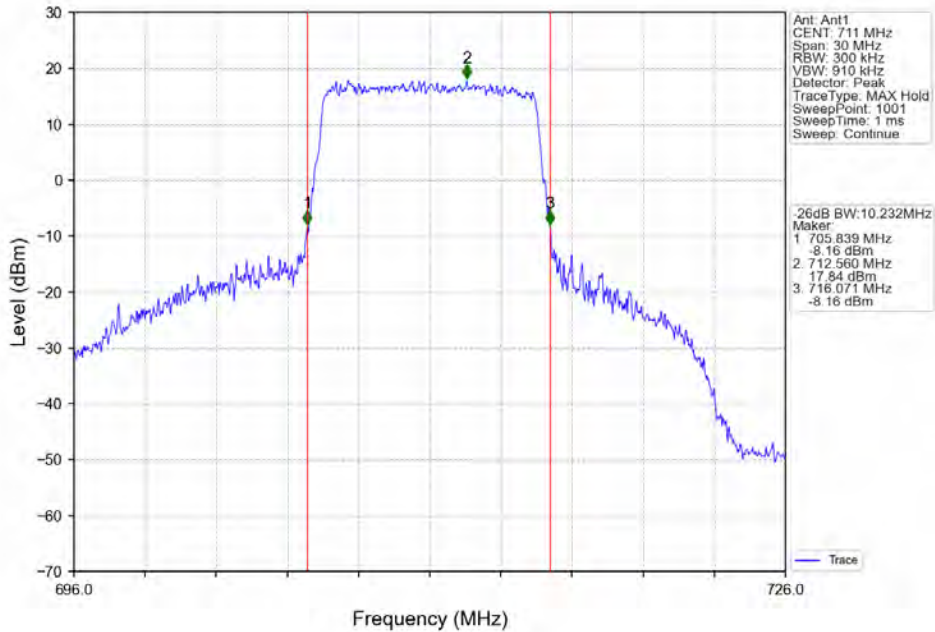


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4. Peak-Average Ratio

4.1 B17_5MHz

4.1.1 Test Result

Band: 17 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	706.5	25	0	4.75	<=13	Pass
	710	25	0	4.81	<=13	Pass
	713.5	25	0	4.53	<=13	Pass
16QAM	706.5	25	0	5.57	<=13	Pass
	710	25	0	5.66	<=13	Pass
	713.5	25	0	5.35	<=13	Pass
64QAM	706.5	25	0	6.10	<=13	Pass
	710	25	0	6.20	<=13	Pass
	713.5	25	0	5.94	<=13	Pass

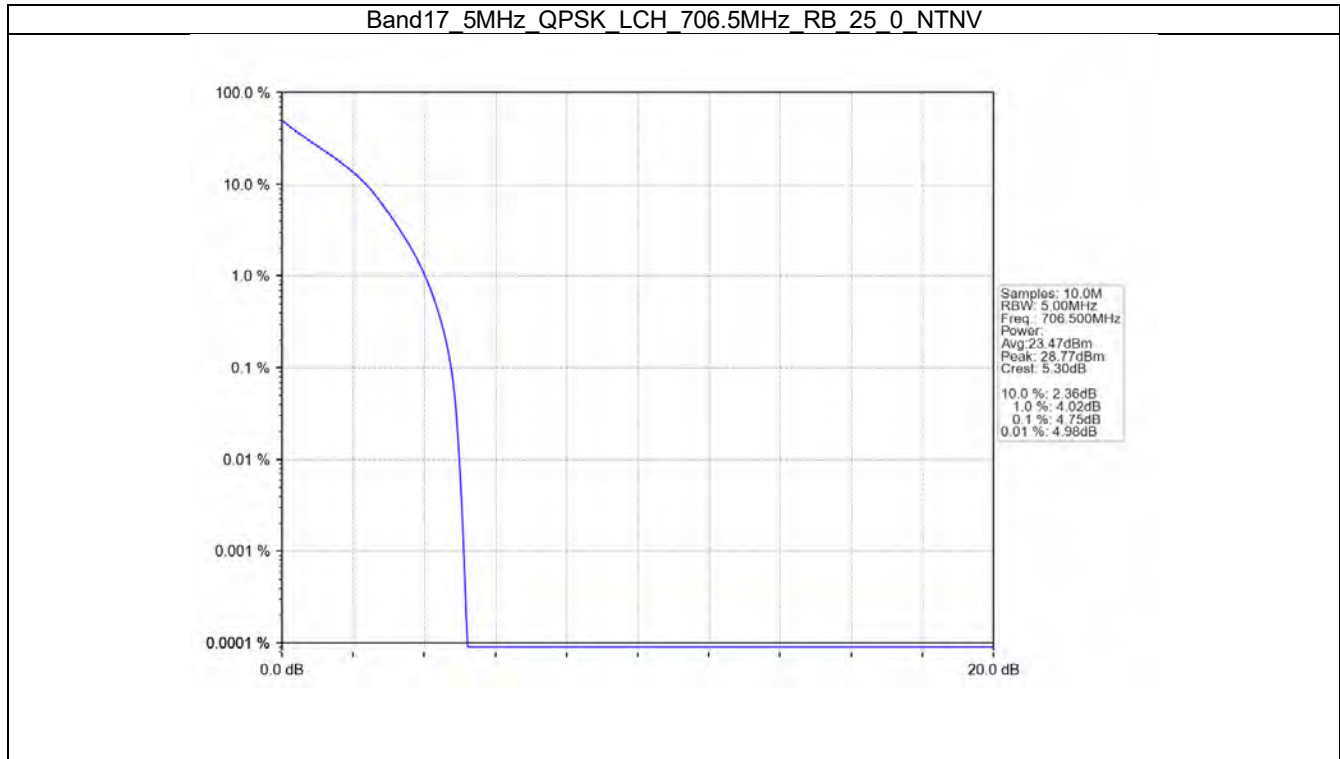


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4.1.2 Test Graph



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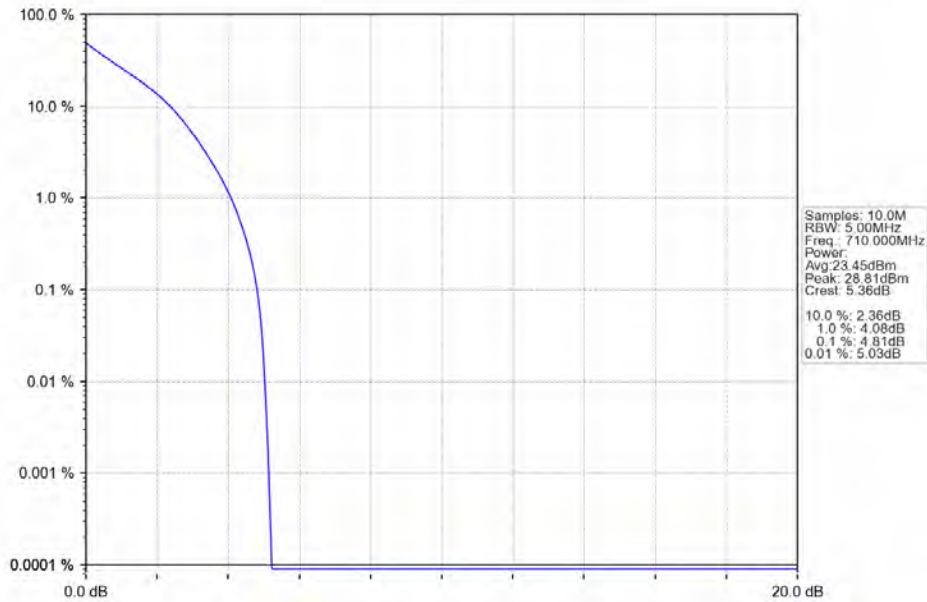
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Band17_5MHz_QPSK_MCH_710MHz_RB_25_0_NTNV



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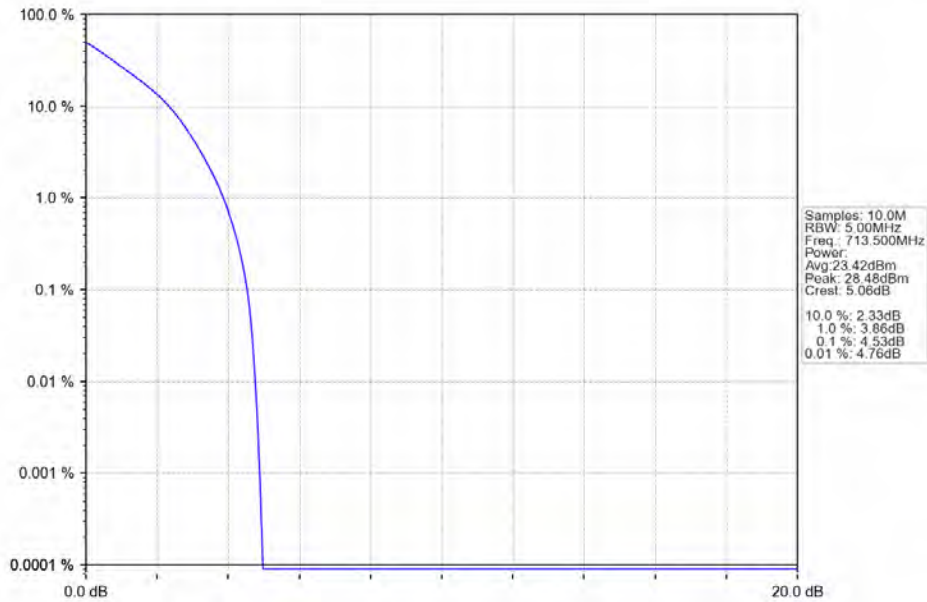
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Band17_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



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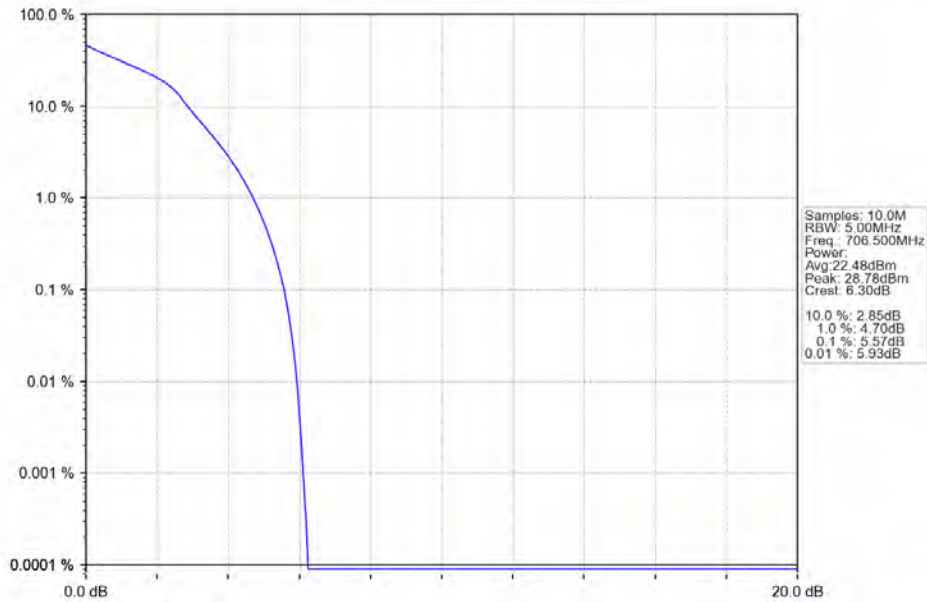
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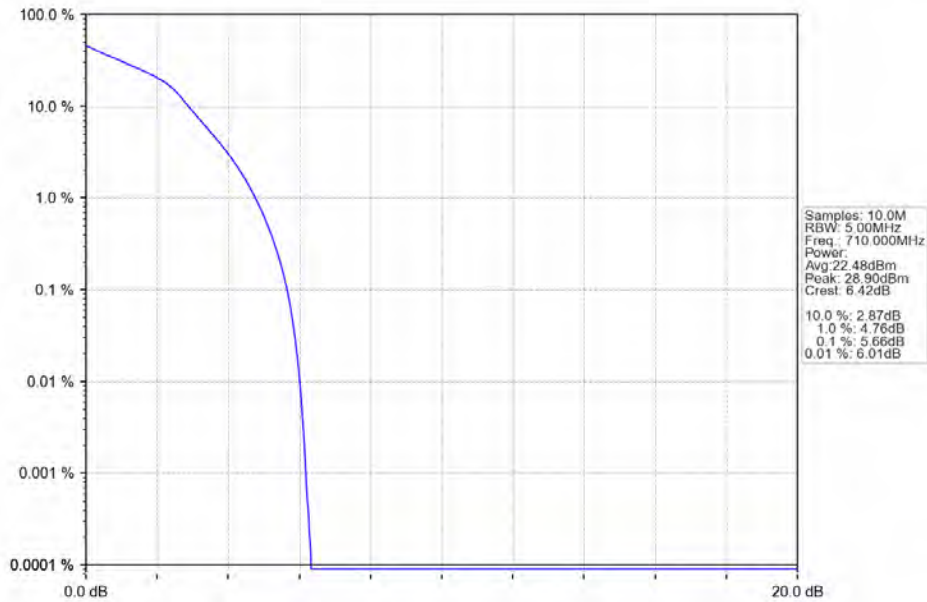
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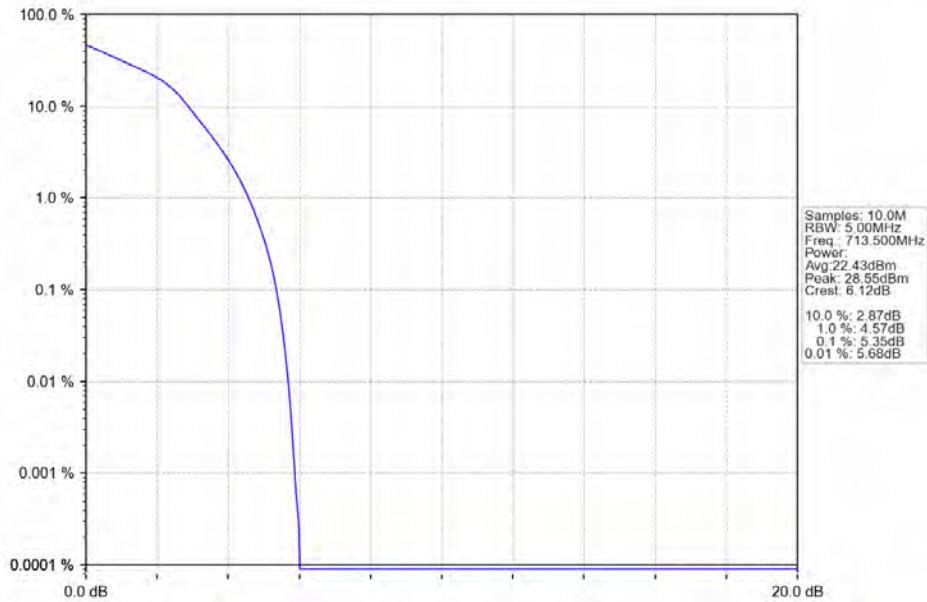


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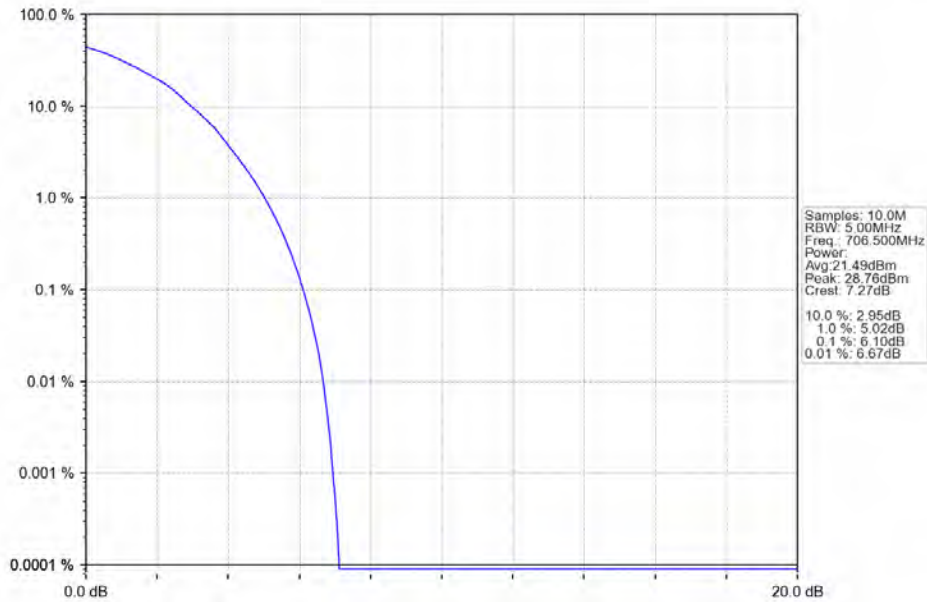
Band17_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



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Band17_5MHz_64QAM_LCH_706.5MHz_RB_25_0_NTNV



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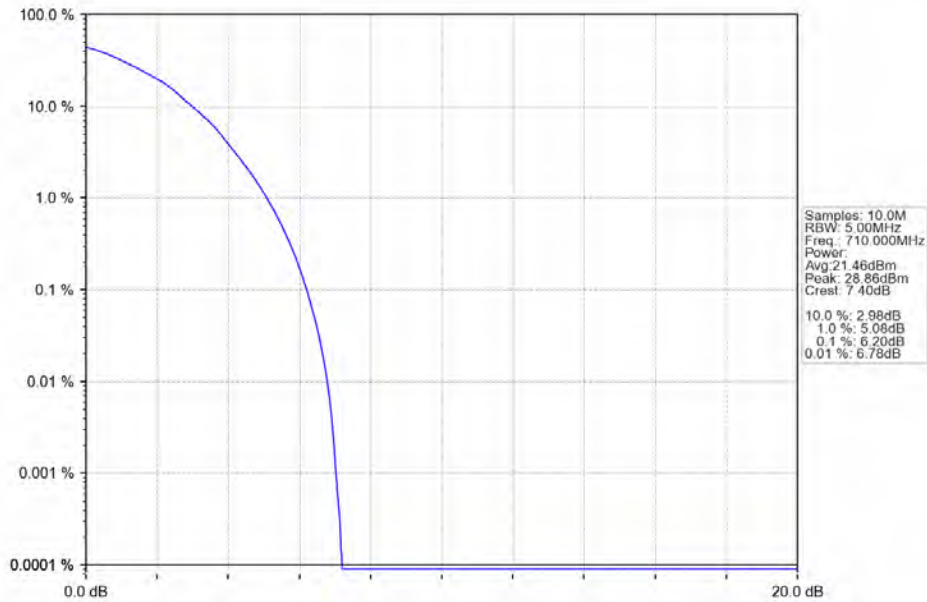
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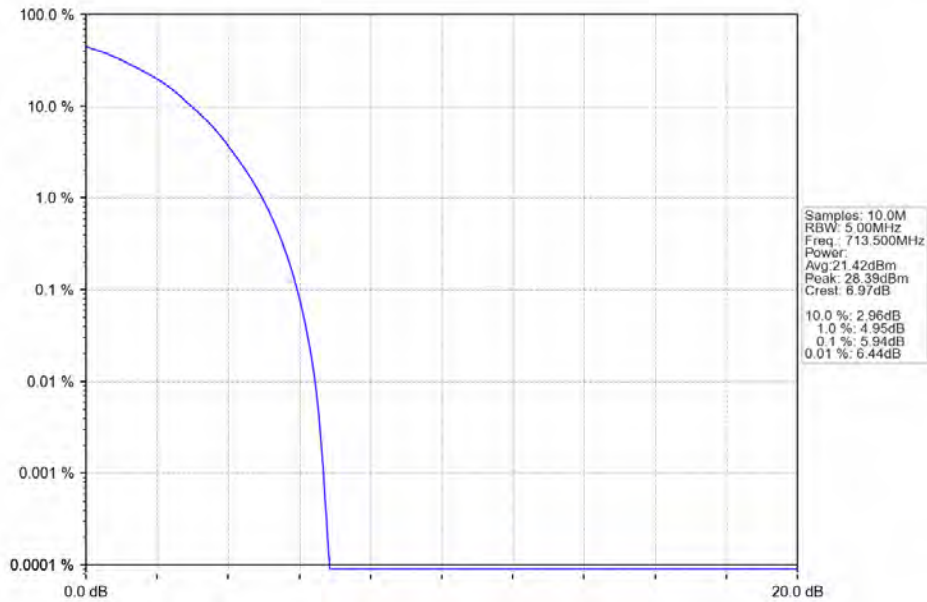
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4.2 B17_10MHz

4.2.1 Test Result

Band: 17 / Bandwidth: 10MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	709	50	0	4.81	<=13	Pass
	710	50	0	4.75	<=13	Pass
	711	50	0	4.68	<=13	Pass
16QAM	709	50	0	5.63	<=13	Pass
	710	50	0	5.59	<=13	Pass
	711	50	0	5.57	<=13	Pass
64QAM	709	50	0	6.16	<=13	Pass
	710	50	0	6.13	<=13	Pass
	711	50	0	6.10	<=13	Pass

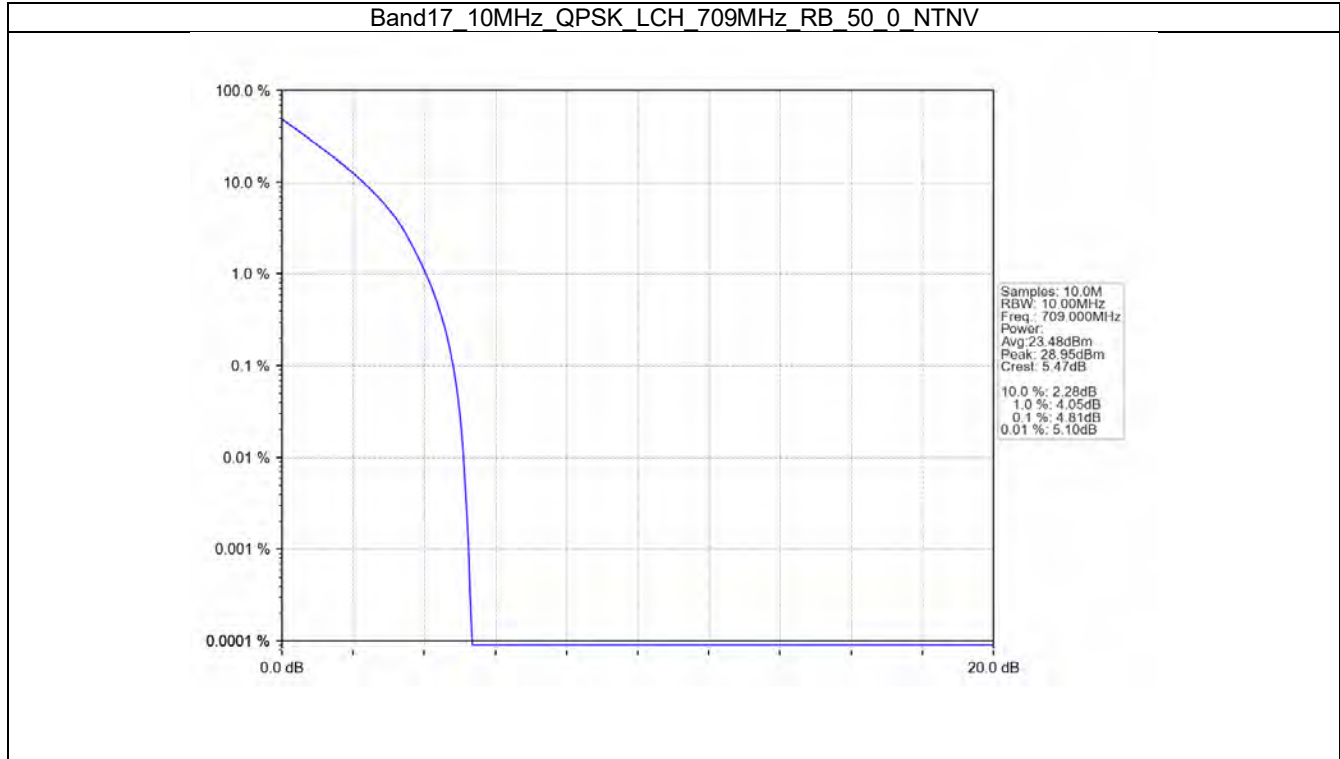


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4.2.2 Test Graph

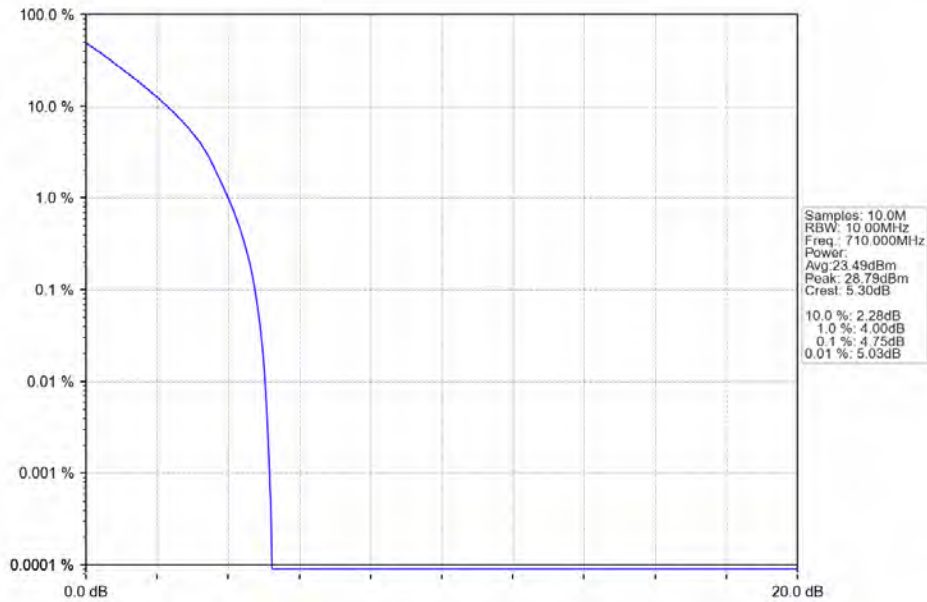


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Band17_10MHz_QPSK_MCH_710MHz_RB_50_0_NTNV

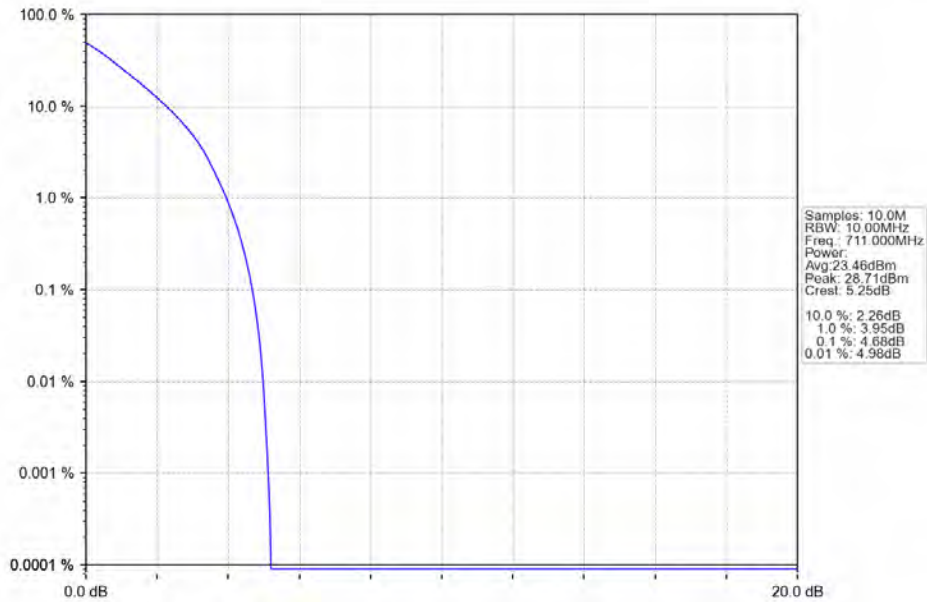


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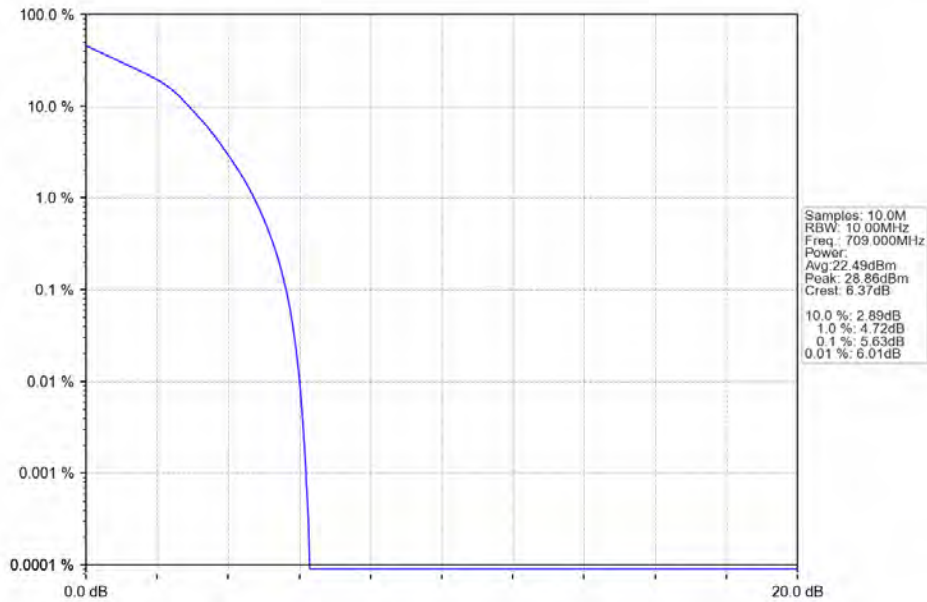
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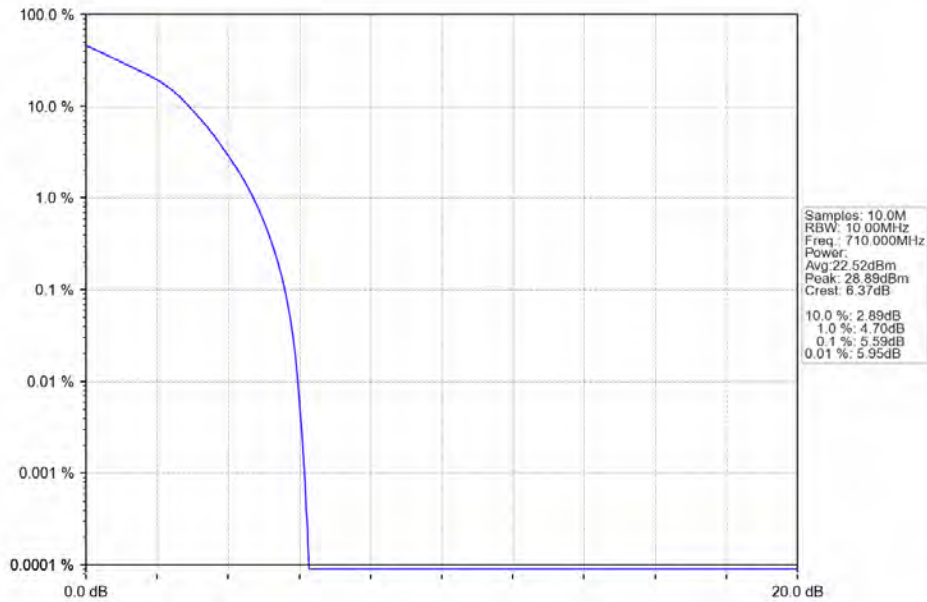


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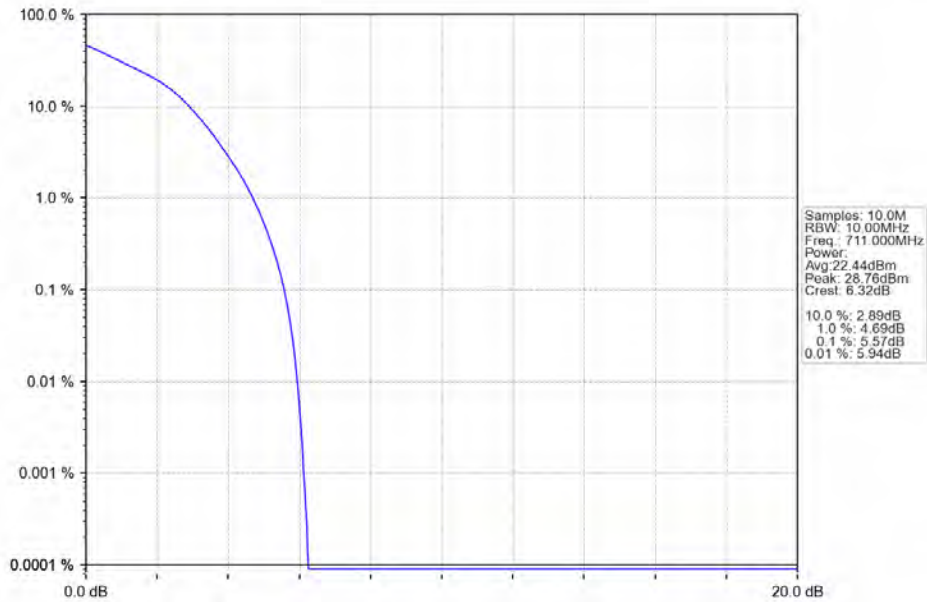


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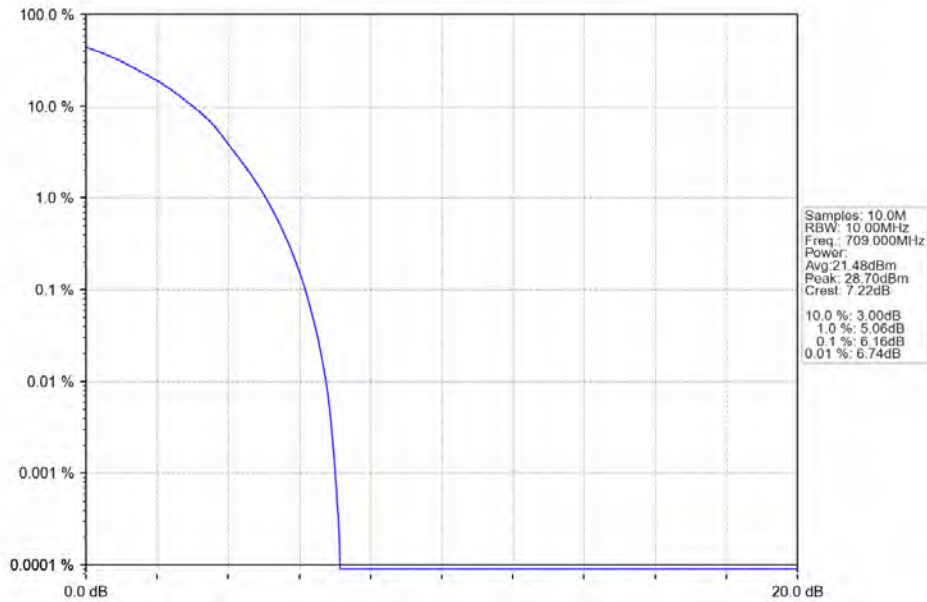
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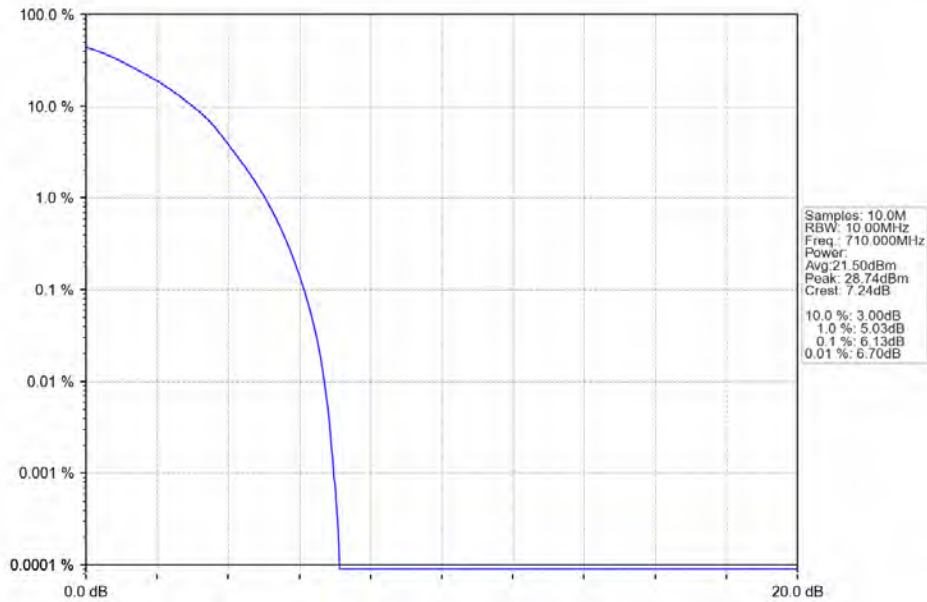
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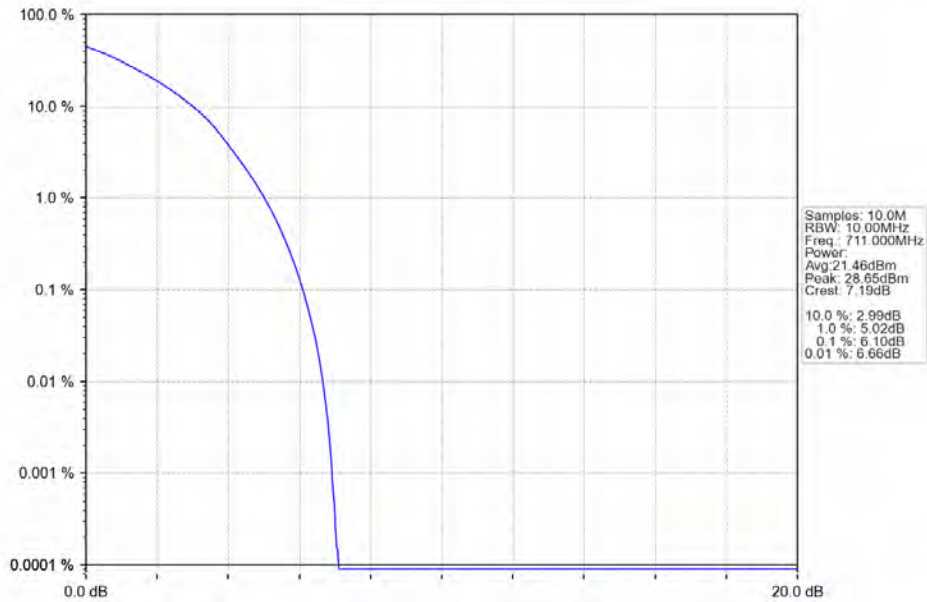
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Band17_10MHz_64QAM_HCH_711MHz_RB_50_0_NTNV



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5. Spurious Emission & Band Edges

5.1 B17_5MHz

5.1.1 Test Result

Band: 17 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	706.5	1	0	Refer To Test Graph	Pass	
		25	0	Refer To Test Graph	Pass	
	710	1	0	Refer To Test Graph	Pass	
		1	0	Refer To Test Graph	Pass	
	713.5	1	24	Refer To Test Graph	Pass	
		25	0	Refer To Test Graph	Pass	
16QAM	706.5	1	0	Refer To Test Graph	Pass	
		25	0	Refer To Test Graph	Pass	
	710	1	0	Refer To Test Graph	Pass	
		1	0	Refer To Test Graph	Pass	
	713.5	1	24	Refer To Test Graph	Pass	
		25	0	Refer To Test Graph	Pass	
64QAM	706.5	1	0	Refer To Test Graph	Pass	
		25	0	Refer To Test Graph	Pass	
	710	1	0	Refer To Test Graph	Pass	
		1	0	Refer To Test Graph	Pass	
	713.5	1	24	Refer To Test Graph	Pass	
		25	0	Refer To Test Graph	Pass	

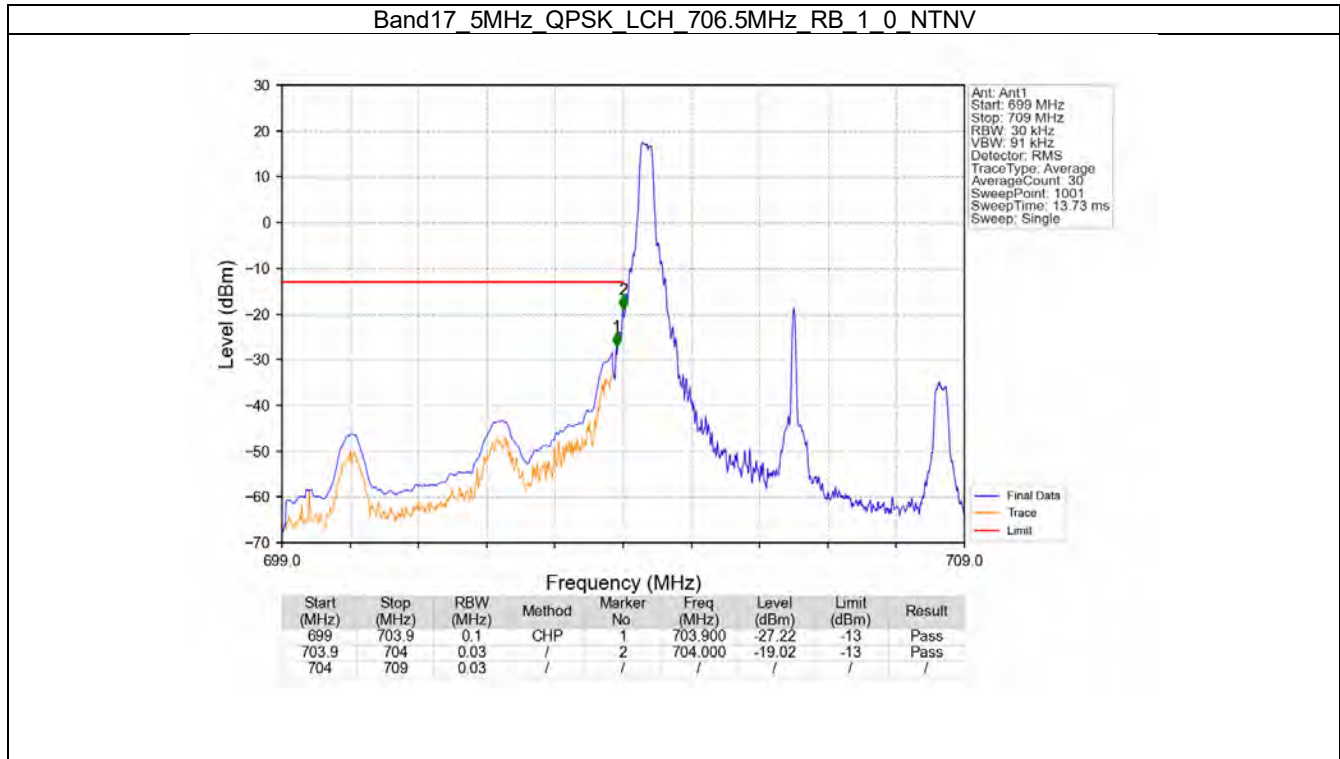


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5.1.2 Test Graph

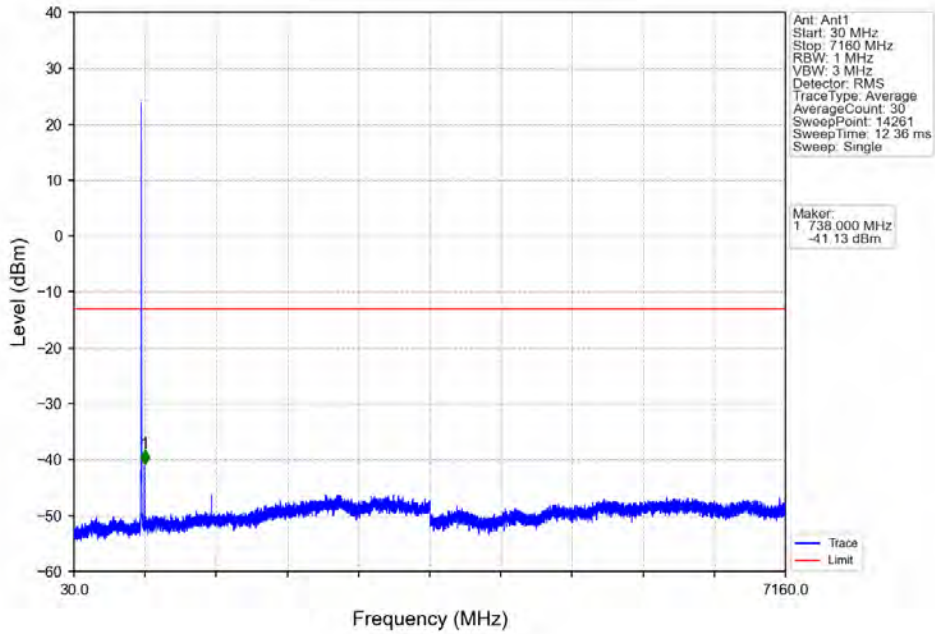


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Band17_5MHz_QPSK_LCH_706.5MHz_RB_1_0_NTNV

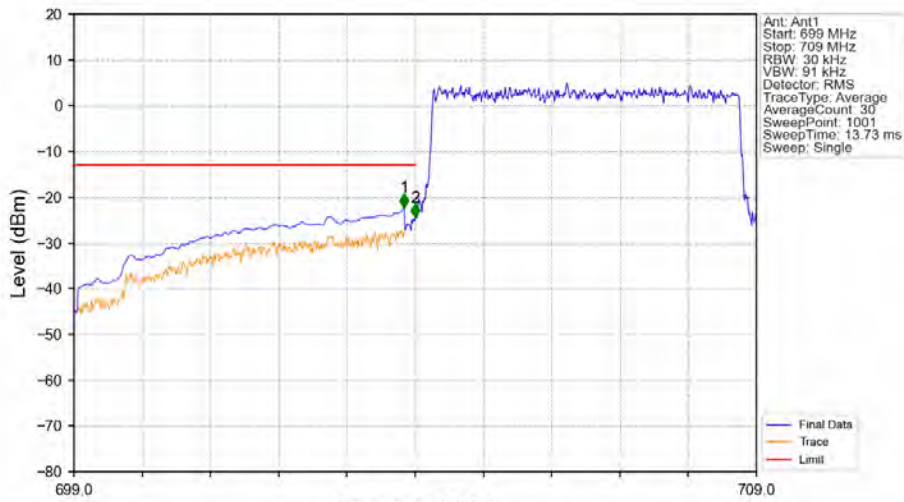


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Band17_5MHz_QPSK_LCH_706.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
699	703.9	0.1	CHP	1	703.840	-22.25	-13	Pass
703.9	704	0.03	/	2	704.000	-24.43	-13	Pass
704	709	0.03	/	/	/	/	/	/

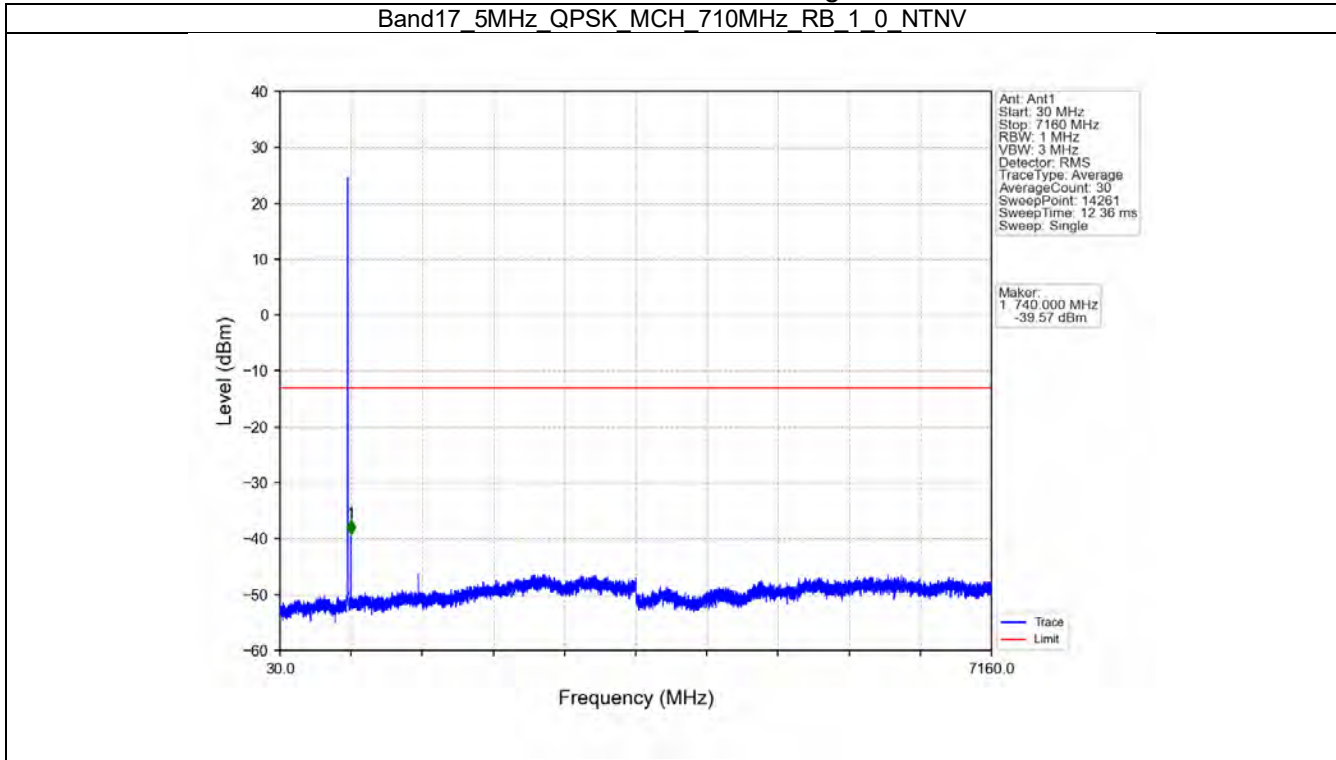


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Band17_5MHz_QPSK_MCH_710MHz_RB_1_0_NTNV

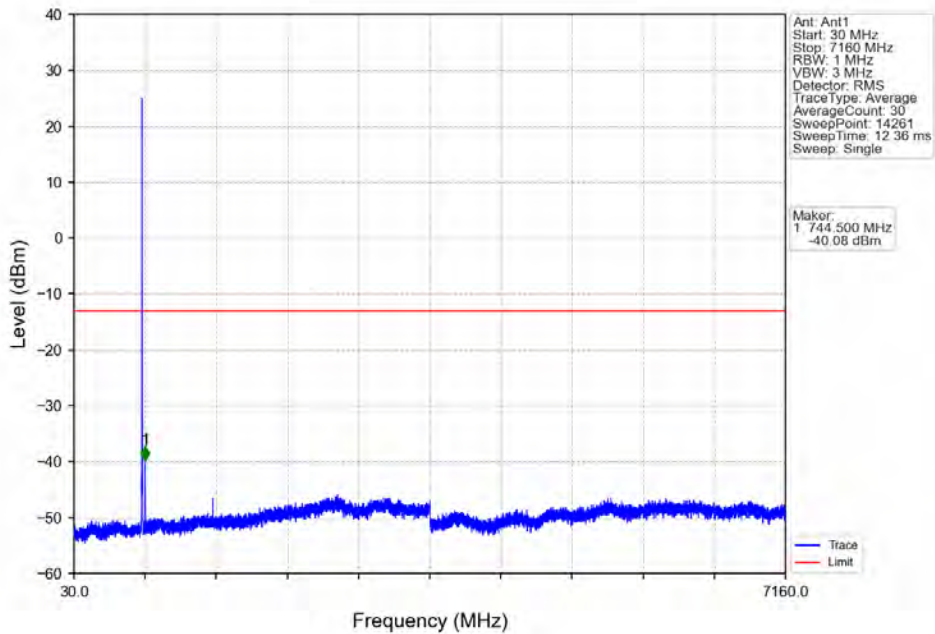


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Band17_5MHz_QPSK_HCH_713.5MHz_RB_1_0_NTNV



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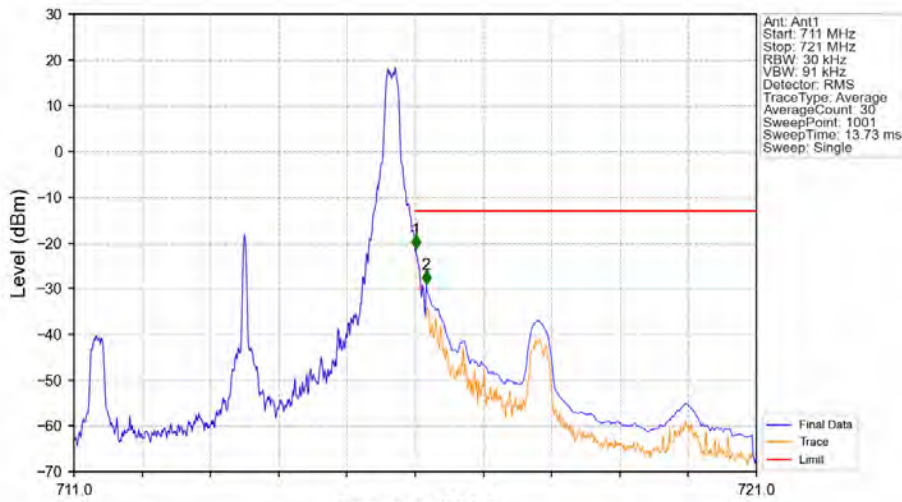
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Report No.: SEWM2311000454RG01

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Band17_5MHz_QPSK_HCH_713.5MHz_RB_1_24_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.010	-21.40	-13	Pass
716.1	721	0.1	CHP	2	716.160	-29.07	-13	Pass

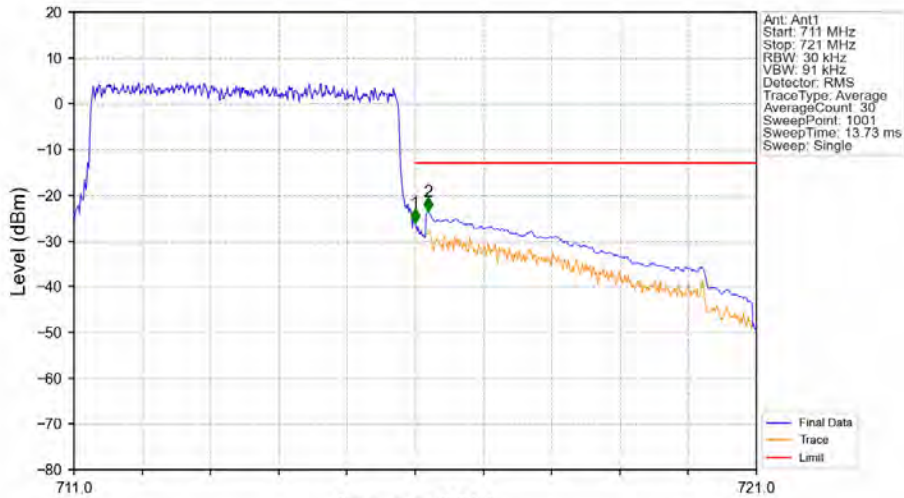


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Band17_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.000	-26.06	-13	Pass
716.1	721	0.1	CHP	2	716.190	-23.56	-13	Pass



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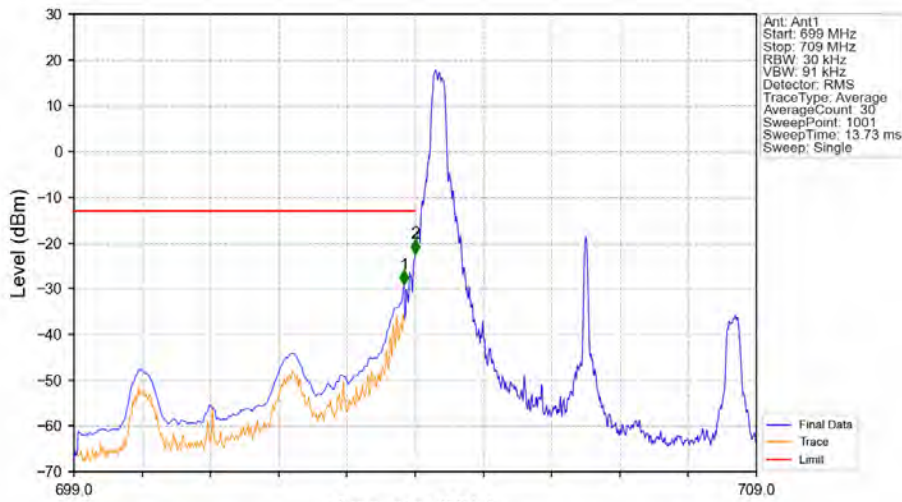
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Band17_5MHz_16QAM_LCH_706.5MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
699	703.9	0.1	CHP	1	703.840	-29.11	-13	Pass
703.9	704	0.03	/	2	704.000	-22.32	-13	Pass
704	709	0.03	/	/	/	/	/	/

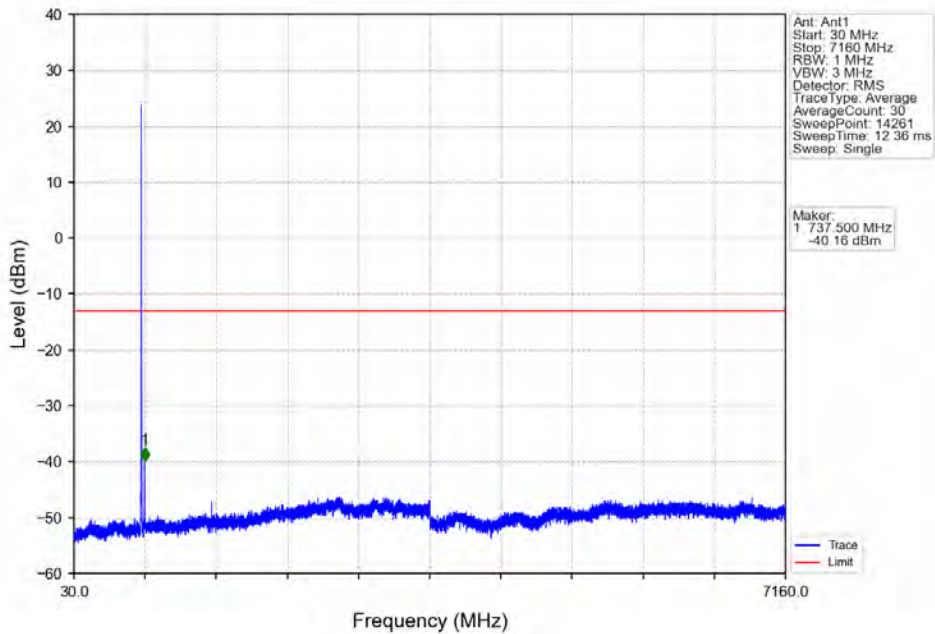


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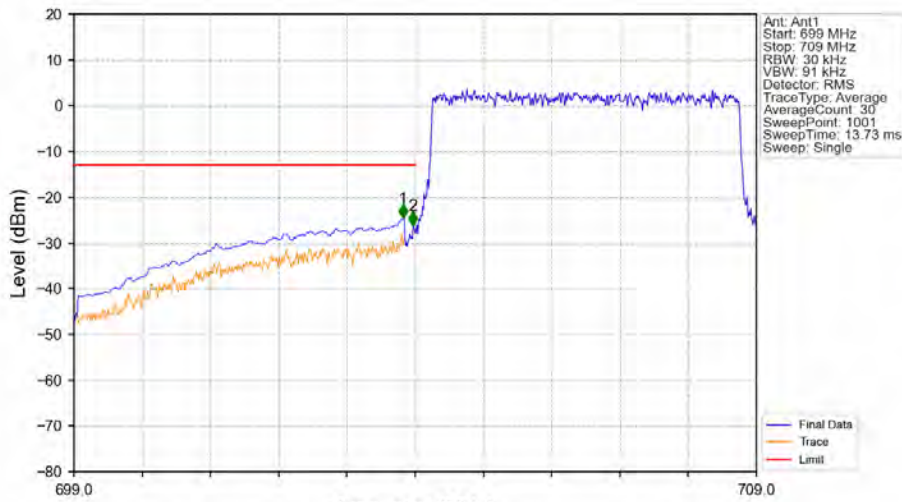
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Band17_5MHz_16QAM LCH 706.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
699	703.9	0.1	CHP	1	703.820	-24.57	-13	Pass
703.9	704	0.03	/	2	703.970	-26.20	-13	Pass
704	709	0.03	/	/	/	/	/	/

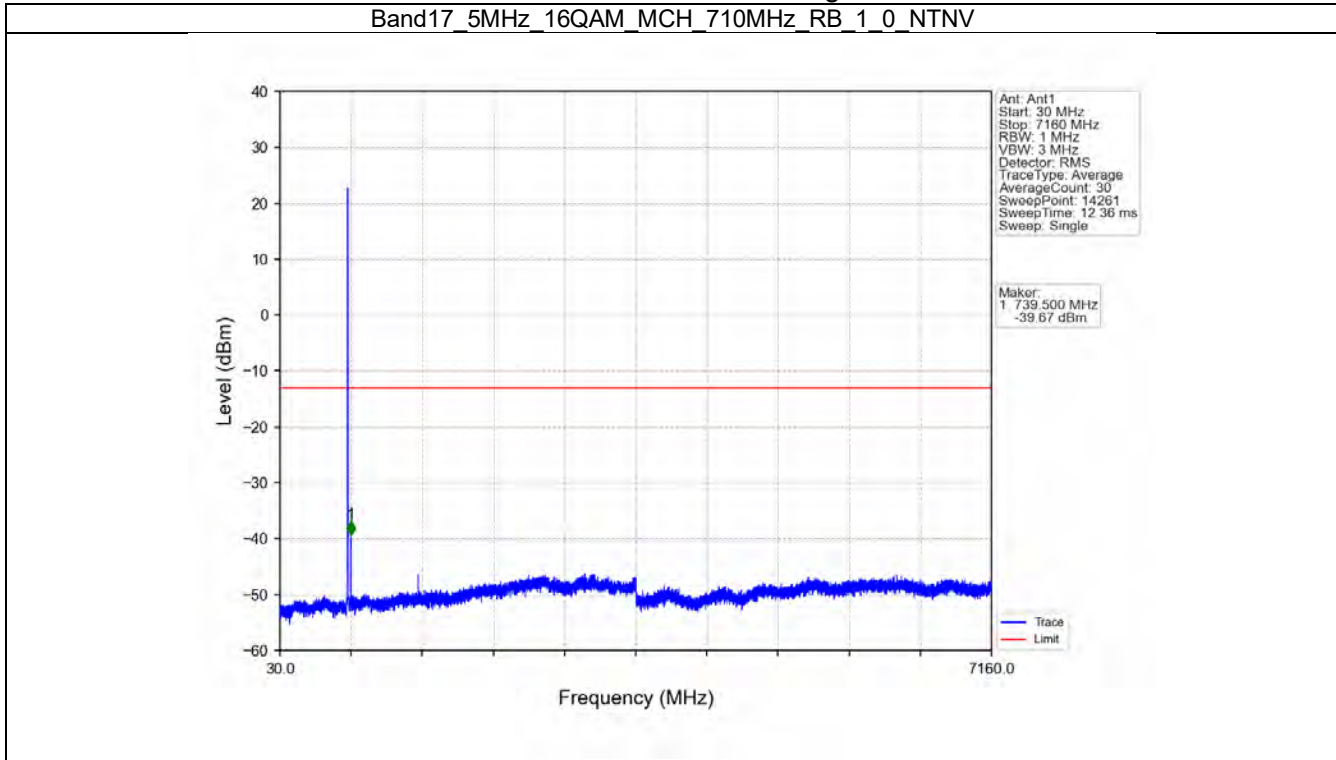


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Band17_5MHz_16QAM_MCH_710MHz_RB_1_0_NTNV

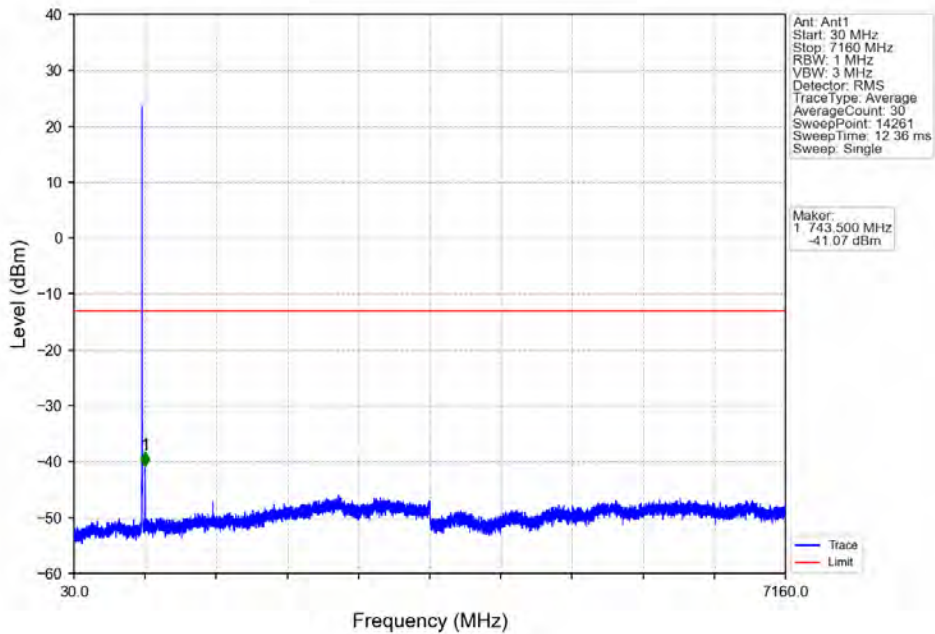


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Band17_5MHz_16QAM_HCH_713.5MHz_RB_1_0_NTNV

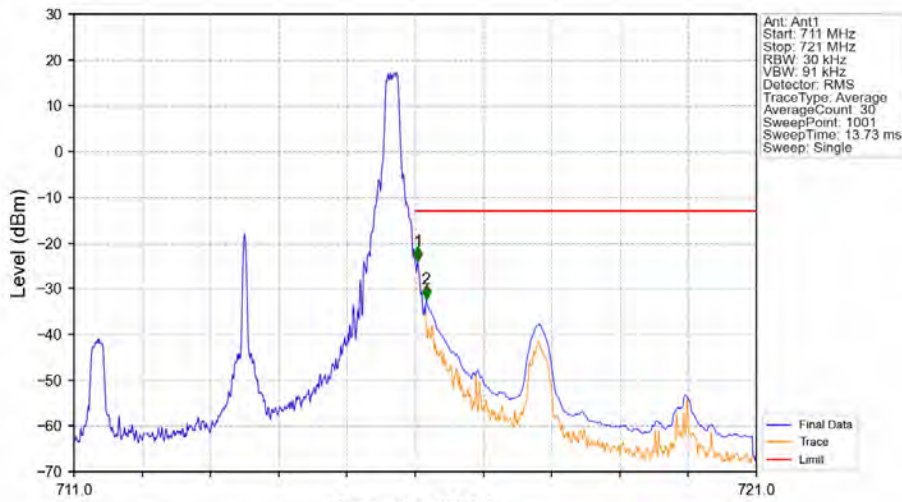


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Band17_5MHz_16QAM_HCH_713.5MHz_RB_1_24_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.040	-24.04	-13	Pass
716.1	721	0.1	CHP	2	716.160	-32.24	-13	Pass

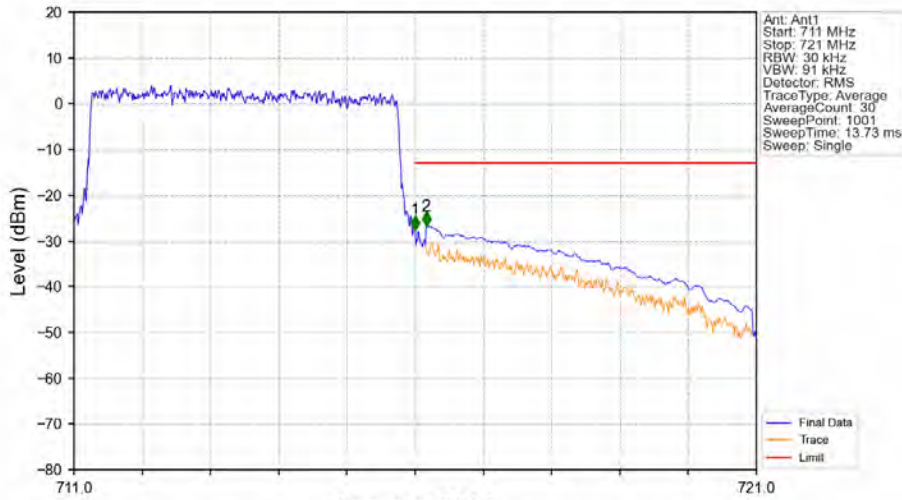


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Band17_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.000	-27.55	-13	Pass
716.1	721	0.1	CHP	2	716.160	-26.73	-13	Pass



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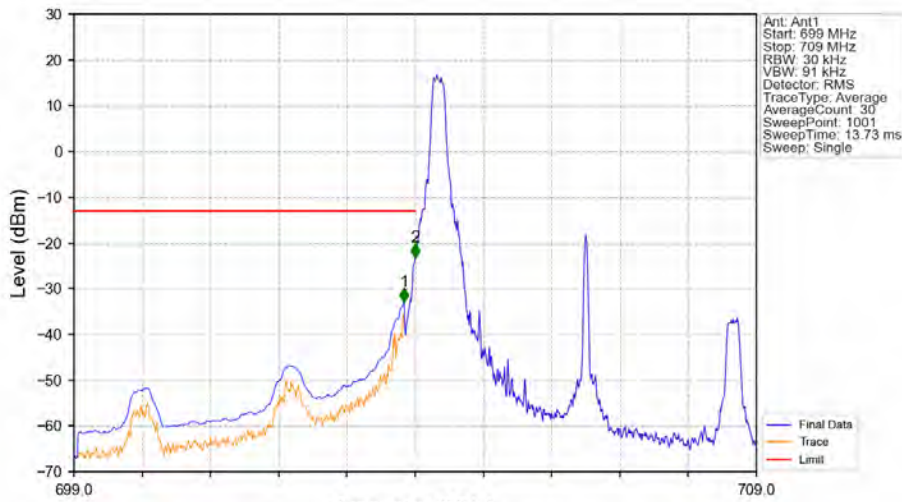
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Band17_5MHz_64QAM_LCH_706.5MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
699	703.9	0.1	CHP	1	703.840	-32.89	-13	Pass
703.9	704	0.03	/	2	704.000	-23.18	-13	Pass
704	709	0.03	/	/	/	/	/	/

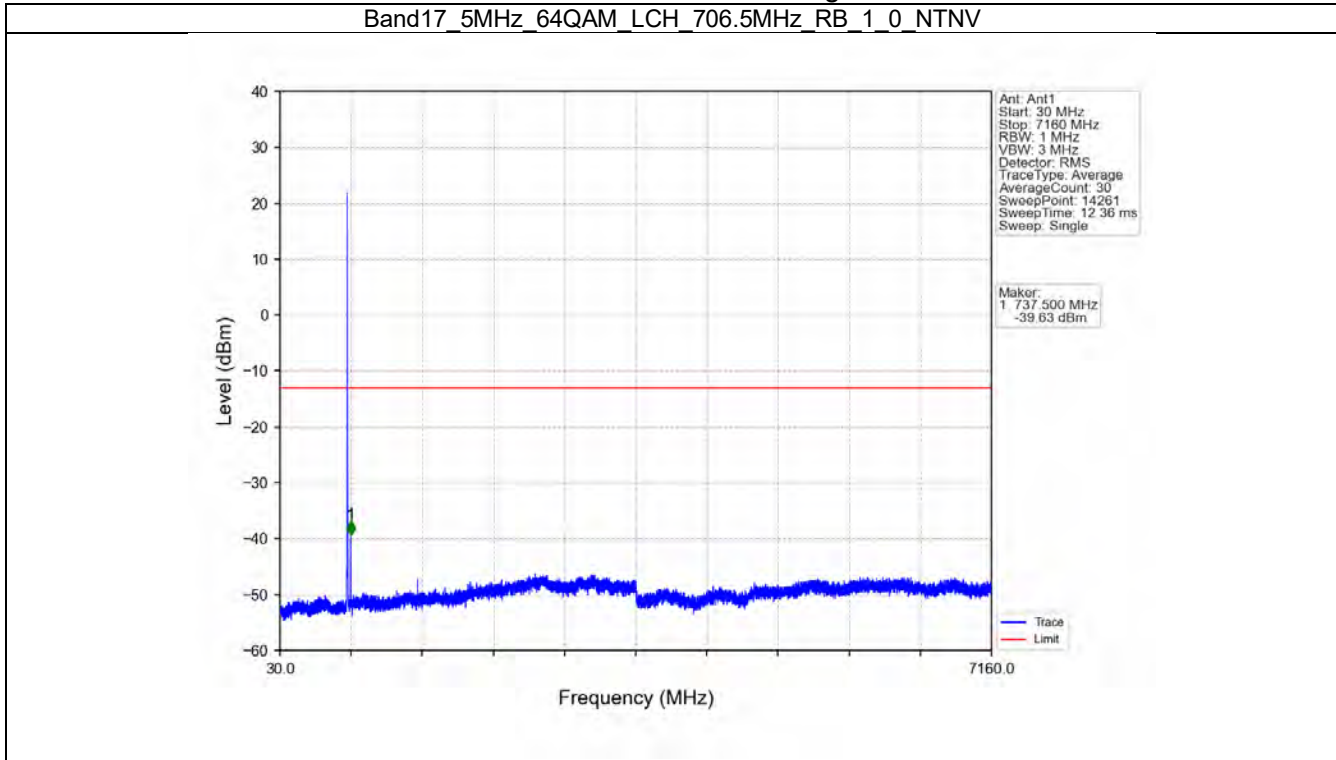


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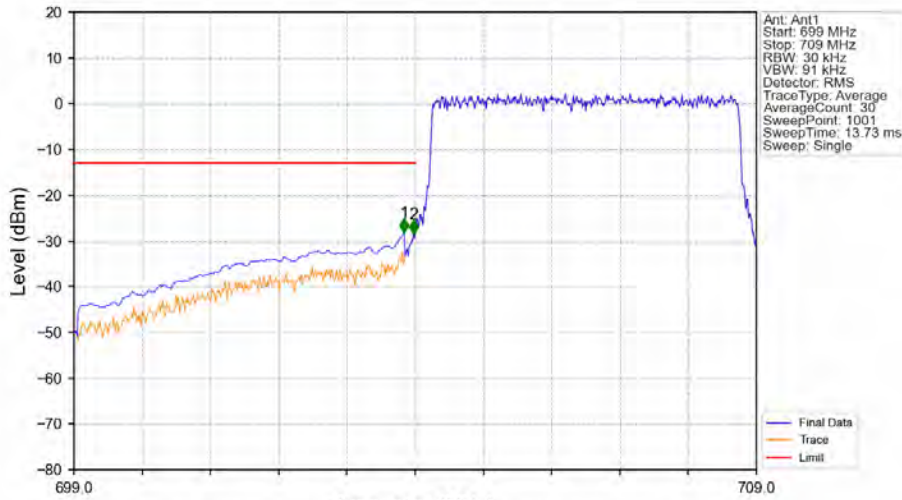


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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
699	703.9	0.1	CHP	1	703.840	-28.13	-13	Pass
703.9	704	0.03	/	2	703.980	-28.56	-13	Pass
704	709	0.03	/	/	/	/	/	/

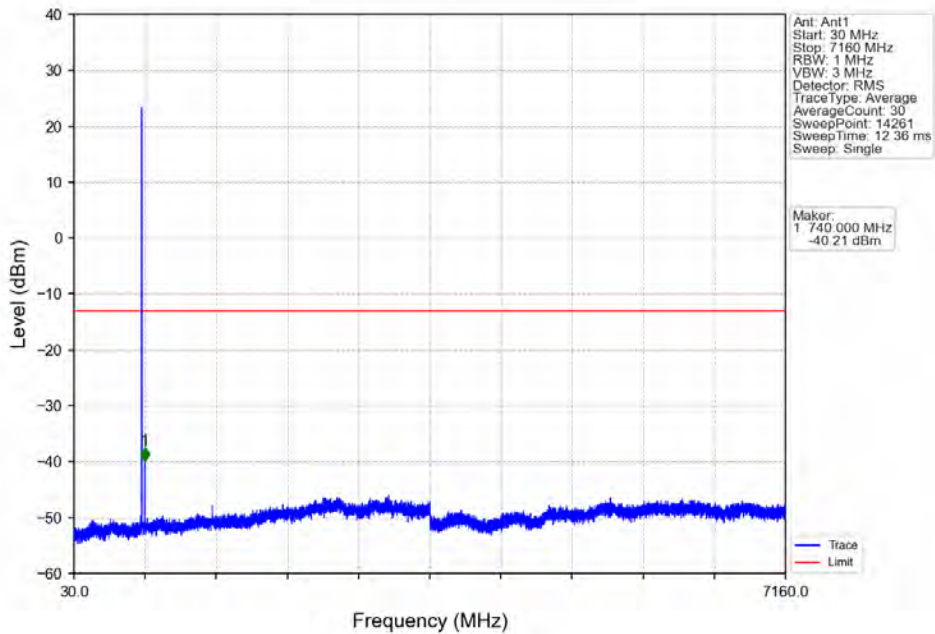


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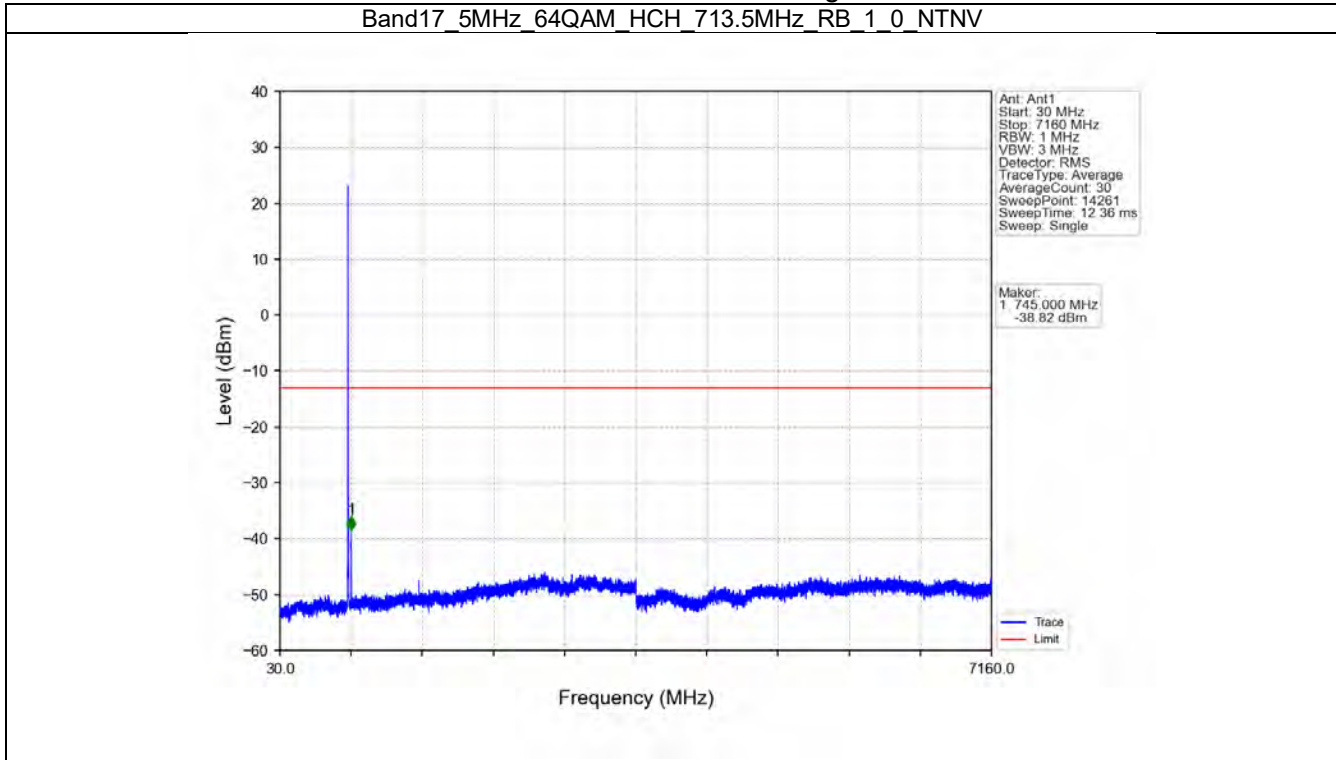


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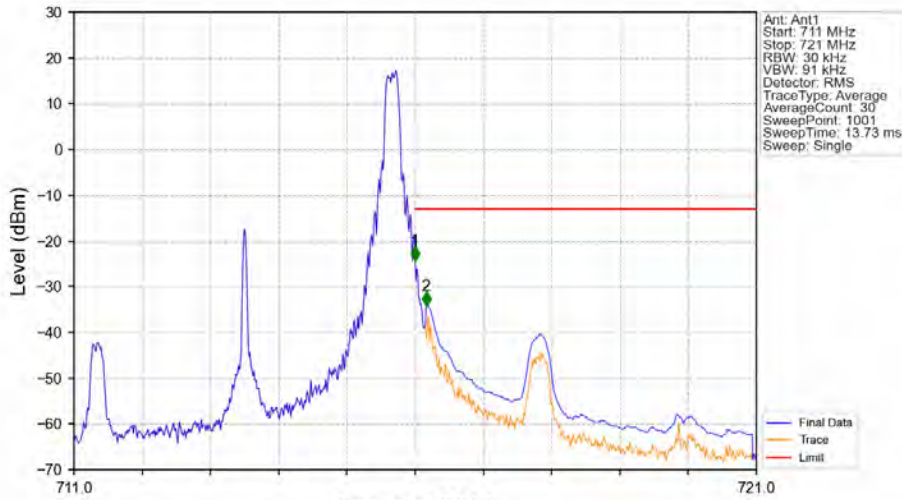


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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.000	-24.28	-13	Pass
716.1	721	0.1	CHP	2	716.160	-34.22	-13	Pass



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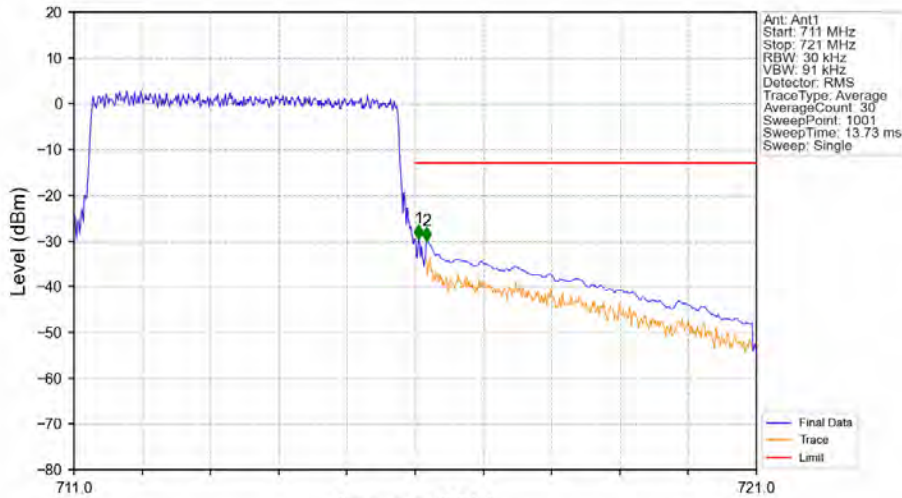
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Report No.: SEWM2311000454RG01

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Band17_5MHz_64QAM_HCH_713.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.050	-29.47	-13	Pass
716.1	721	0.1	CHP	2	716.170	-30.02	-13	Pass



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5.2 B17_10MHz

5.2.1 Test Result

Band: 17 / Bandwidth: 10MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	709	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	711	1	0	Refer To Test Graph		Pass
		1	49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
16QAM	709	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	711	1	0	Refer To Test Graph		Pass
		1	49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
64QAM	709	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	711	1	0	Refer To Test Graph		Pass
		1	49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass

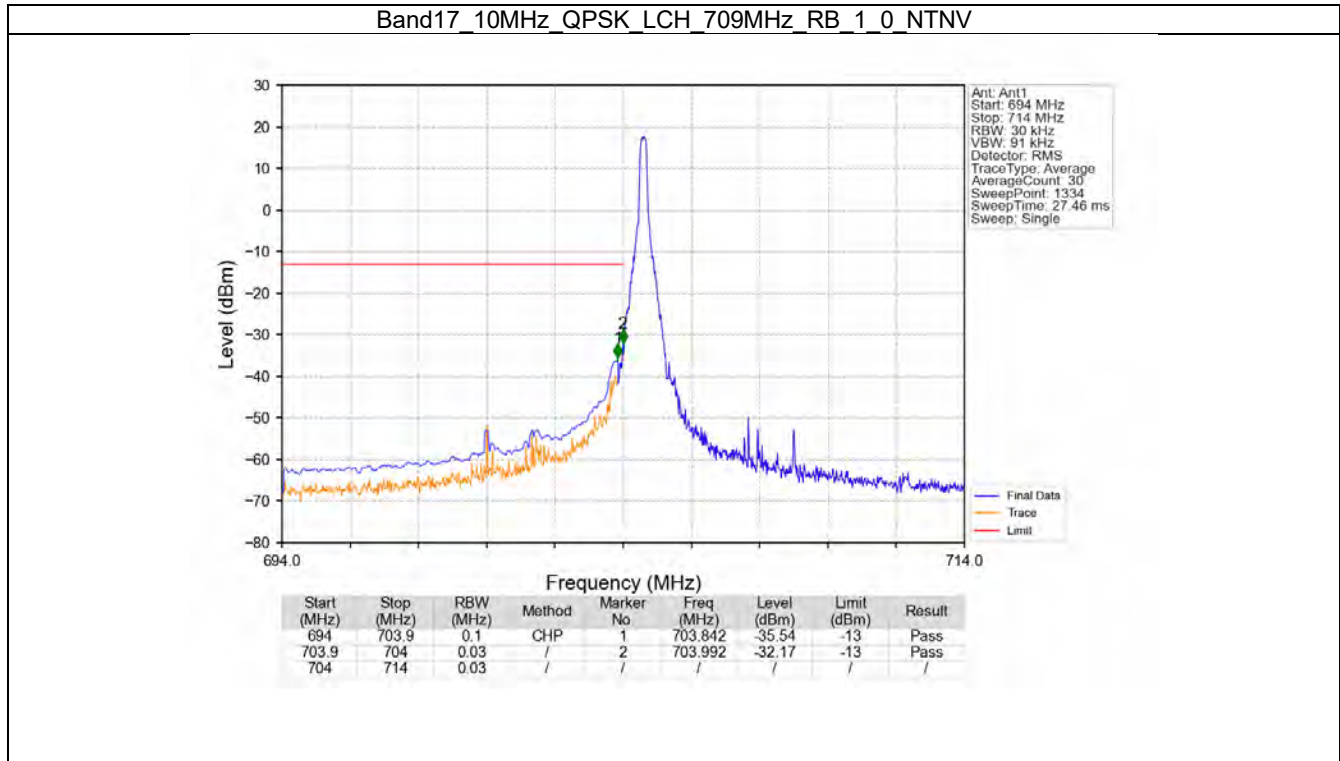


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5.2.2 Test Graph

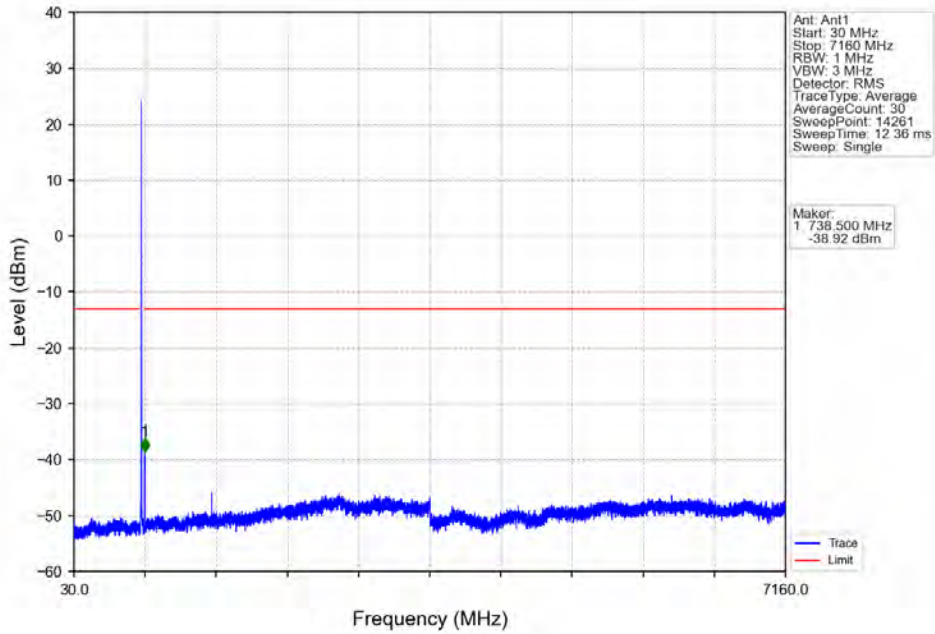


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Band17_10MHz_QPSK_LCH_709MHz_RB_1_0_NTNV



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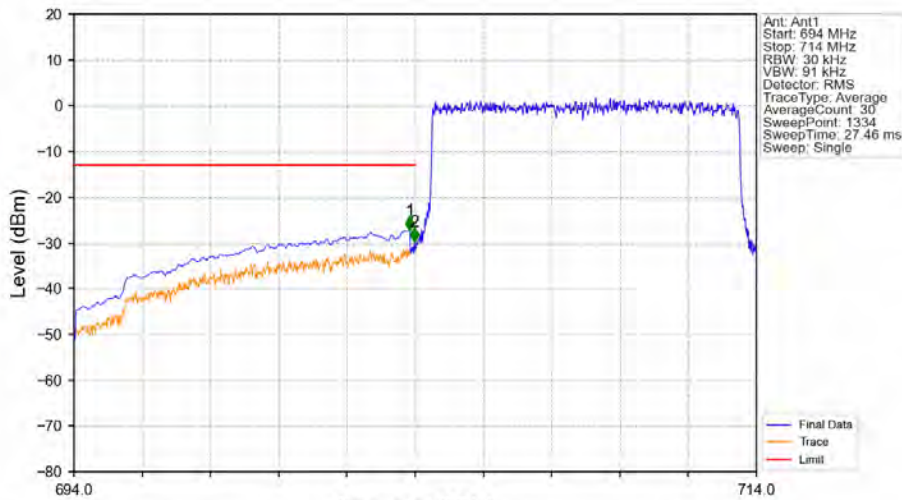
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Band17_10MHz_QPSK_LCH_709MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	703.9	0.1	CHP	1	703.842	-27.25	-13	Pass
703.9	704	0.03	/	2	703.977	-29.81	-13	Pass
704	714	0.03	/	/	/	/	/	/

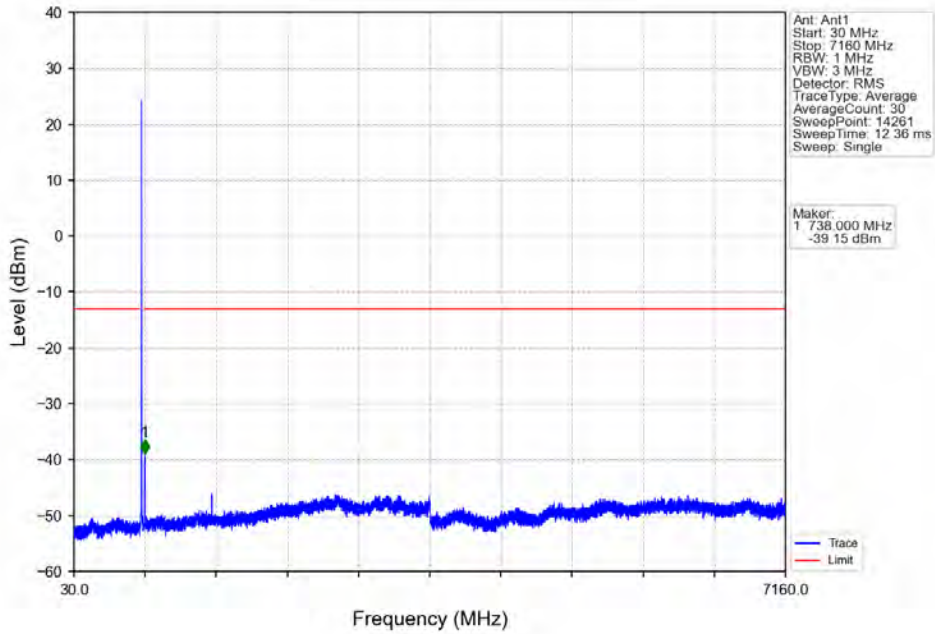


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Band17_10MHz_QPSK_MCH_710MHz_RB_1_0_NTNV

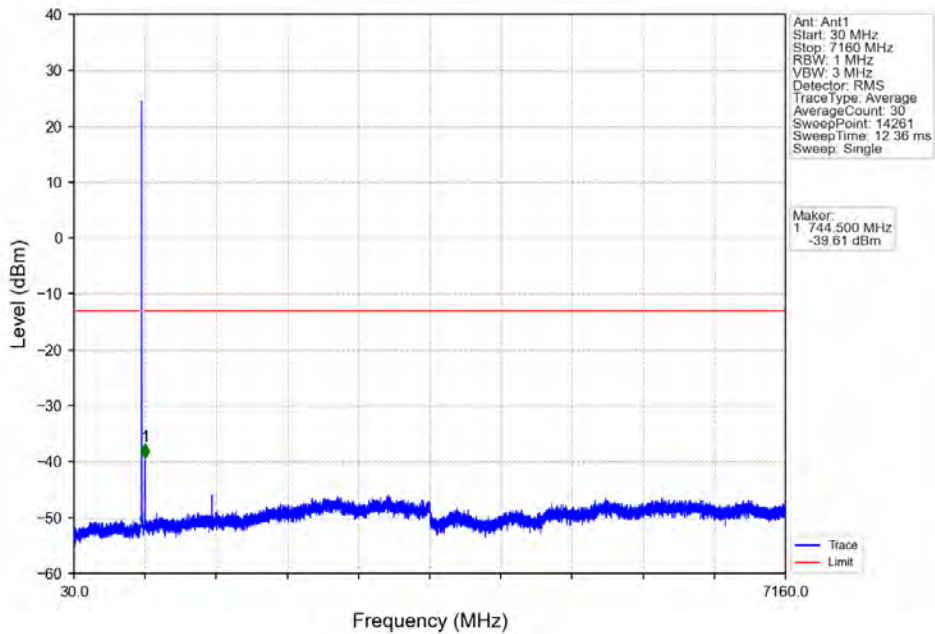


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Band17_10MHz_QPSK_HCH_711MHz_RB_1_0_NTNV



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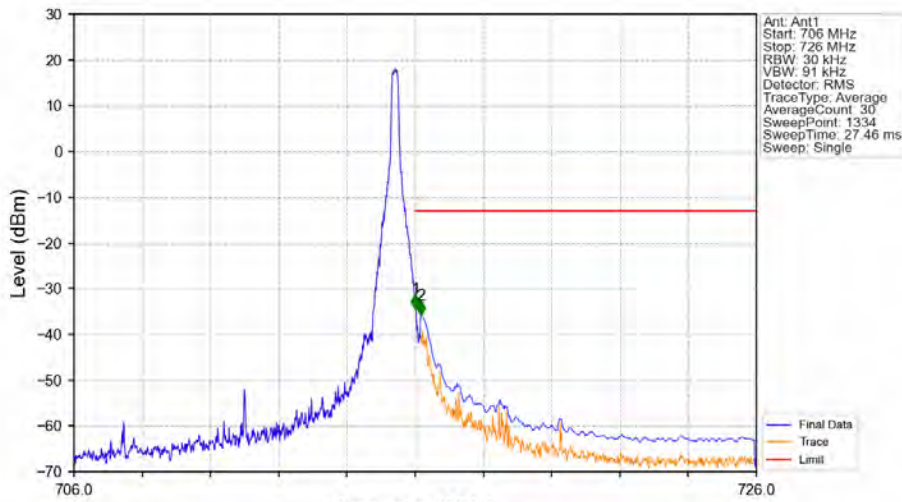
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Band17_10MHz_QPSK_HCH_711MHz_RB_1_49_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.008	-34.34	-13	Pass
716.1	726	0.1	CHP	2	716.173	-35.77	-13	Pass



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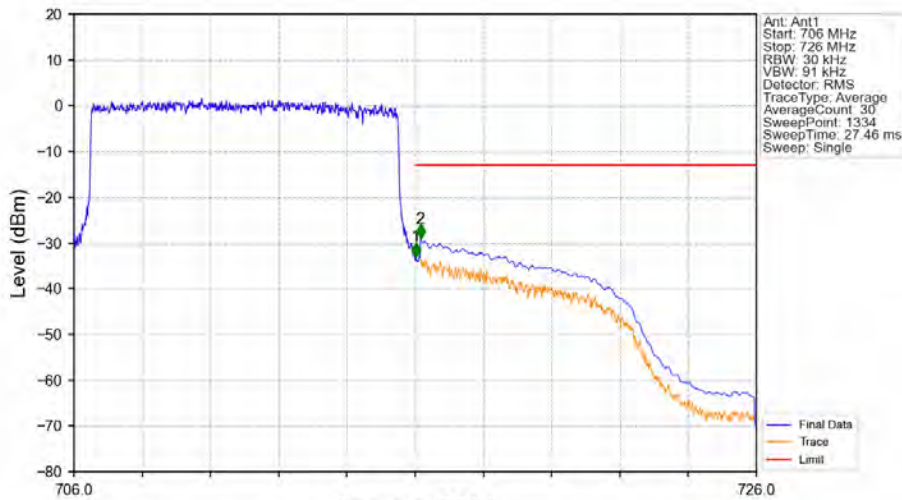
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Band17_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.023	-33.00	-13	Pass
716.1	726	0.1	CHP	2	716.158	-29.04	-13	Pass



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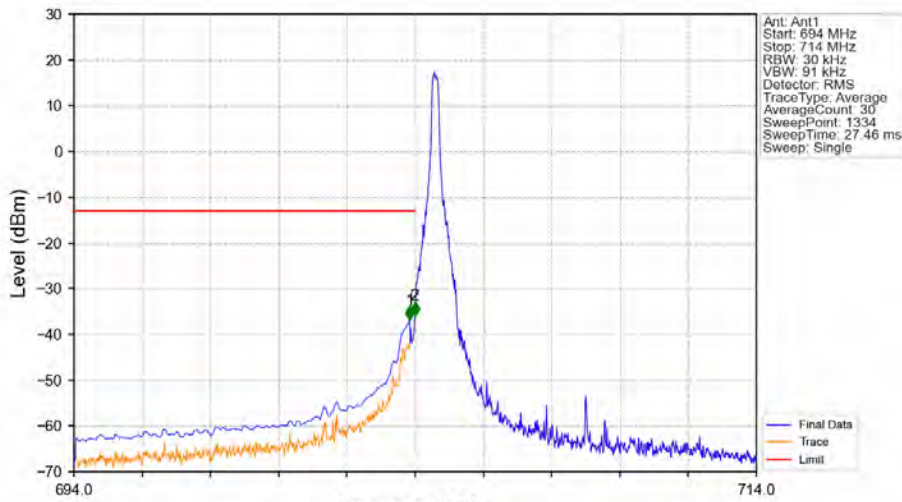
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Band17_10MHz_16QAM_LCH_709MHz_RB_1_0_NTNV



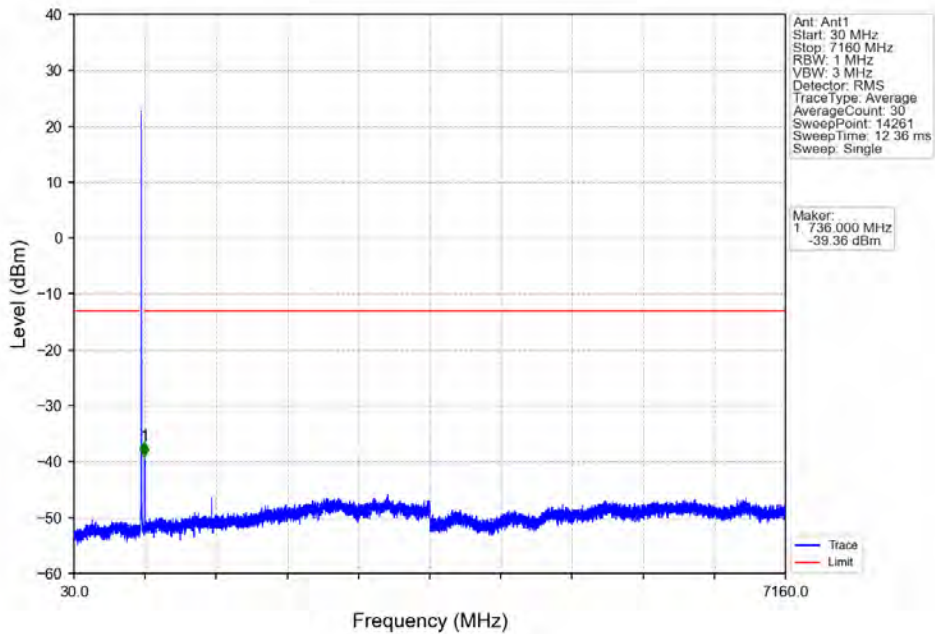
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	703.9	0.1	CHP	1	703.842	-36.83	-13	Pass
703.9	704	0.03	/	2	703.992	-35.88	-13	Pass
704	714	0.03	/	/	/	/	/	/



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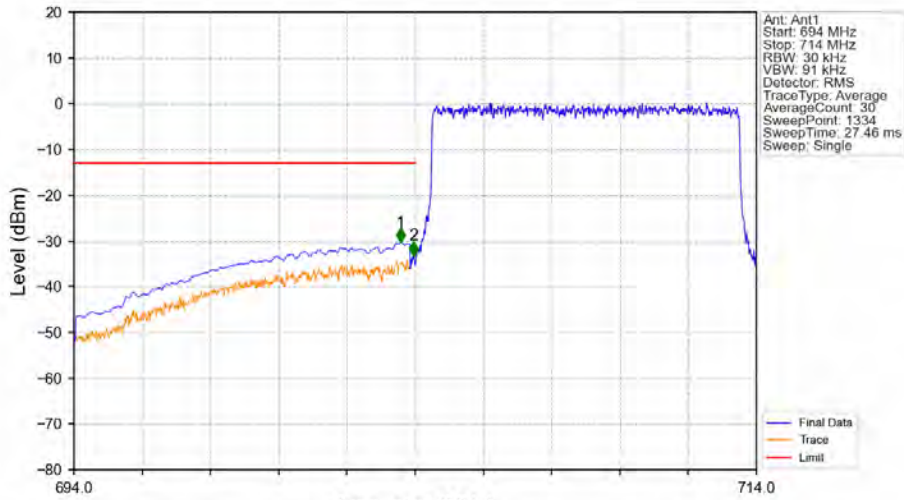


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Band17_10MHz_16QAM_LCH_709MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	703.9	0.1	CHP	1	703.572	-30.33	-13	Pass
703.9	704	0.03	/	2	703.962	-33.17	-13	Pass
704	714	0.03	/	/	/	/	/	/

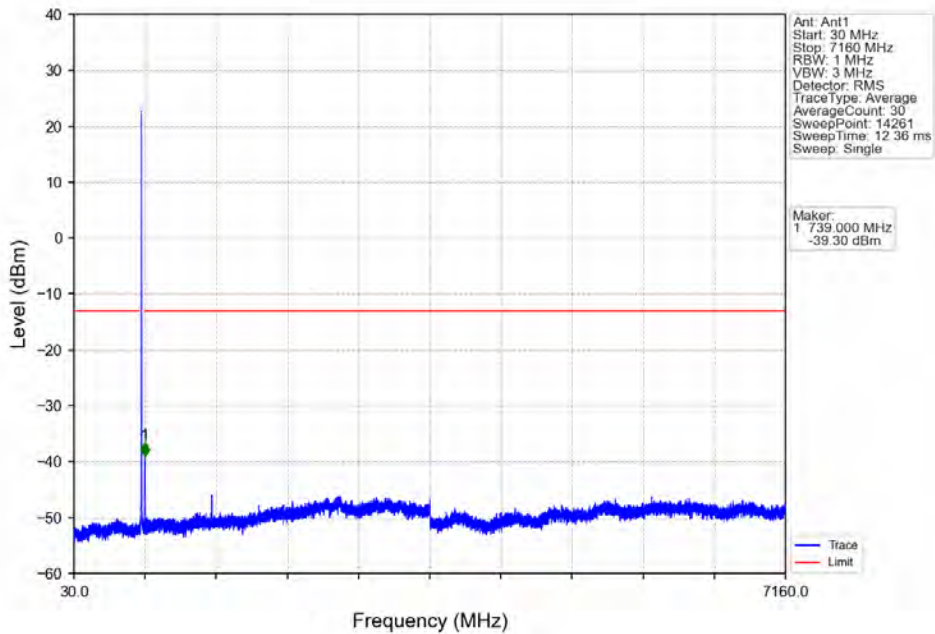


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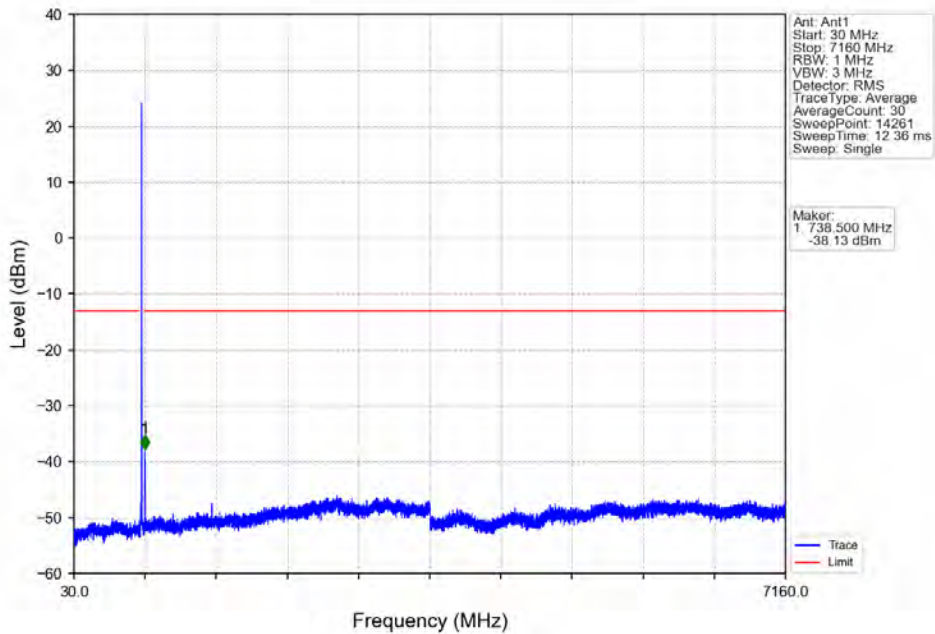
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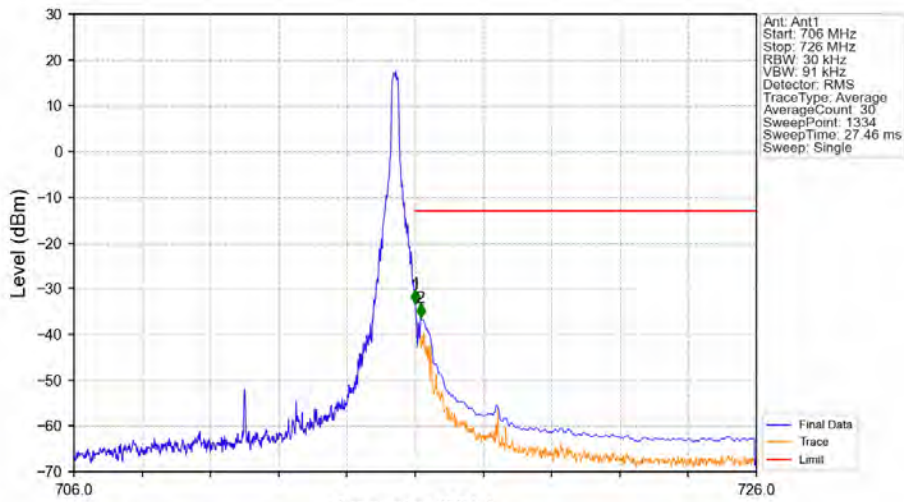
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Band17_10MHz_16QAM_HCH_711MHz_RB_1_49_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.008	-33.35	-13	Pass
716.1	726	0.1	CHP	2	716.158	-36.29	-13	Pass



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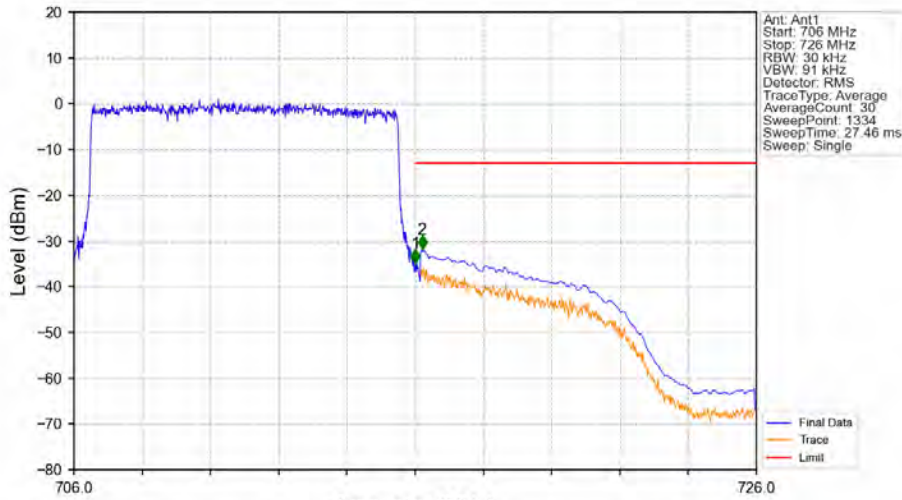
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Report No.: SEWM2311000454RG01

Rev.: 01

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Band17_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.008	-34.80	-13	Pass
716.1	726	0.1	CHP	2	716.203	-31.93	-13	Pass

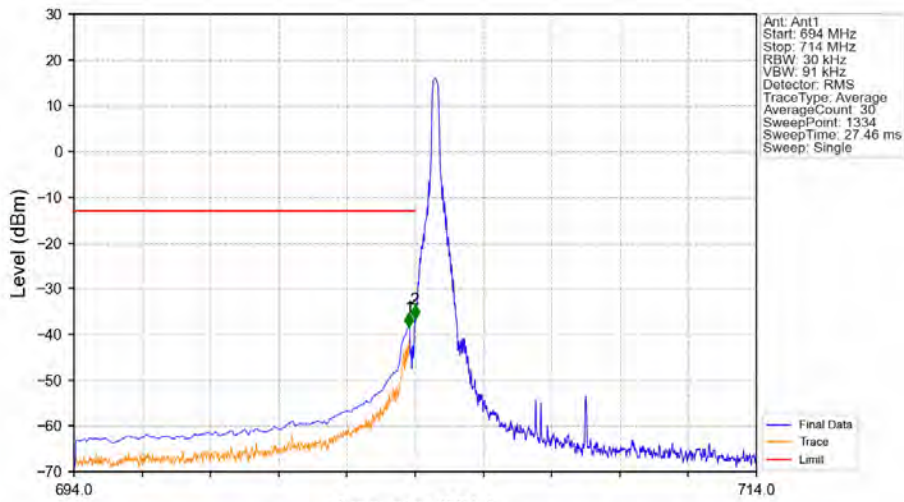


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Band17_10MHz_64QAM_LCH_709MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	703.9	0.1	CHP	1	703.812	-38.40	-13	Pass
703.9	704	0.03	/	2	703.992	-36.74	-13	Pass
704	714	0.03	/	/	/	/	/	/

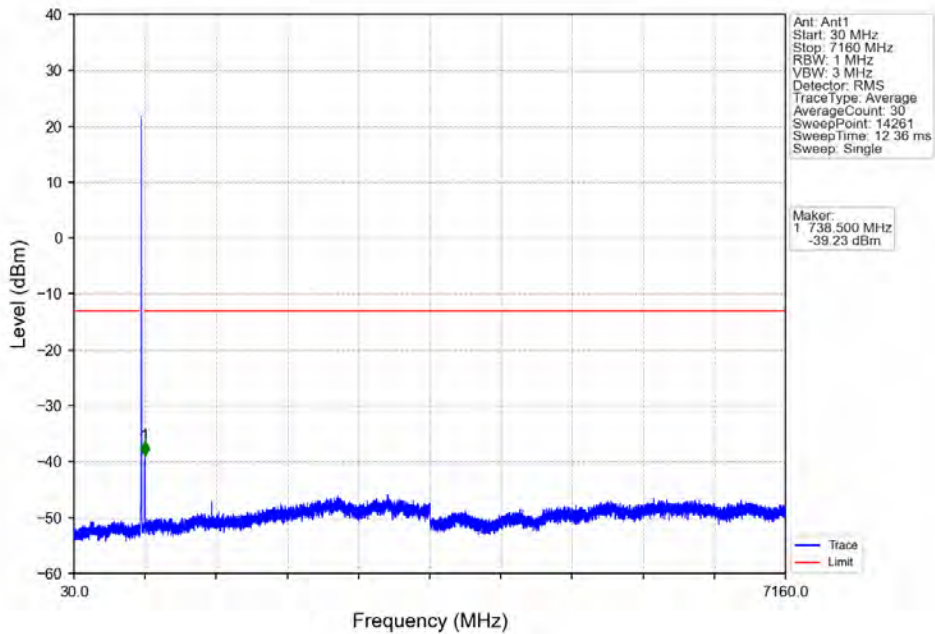


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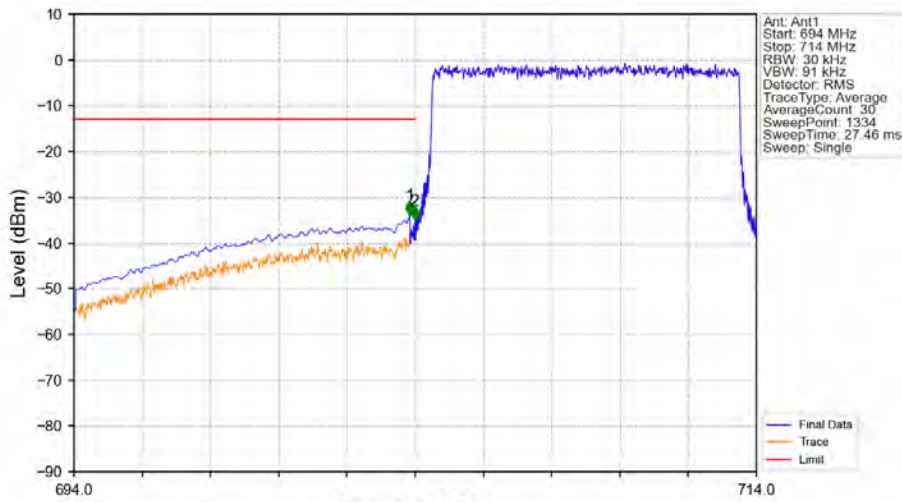
Band17_10MHz_64QAM_LCH_709MHz_RB_1_0_NTNV



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Band17_10MHz_64QAM_LCH_709MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	703.9	0.1	CHP	1	703.842	-33.99	-13	Pass
703.9	704	0.03	/	2	703.992	-35.14	-13	Pass
704	714	0.03	/	/	/	/	/	/

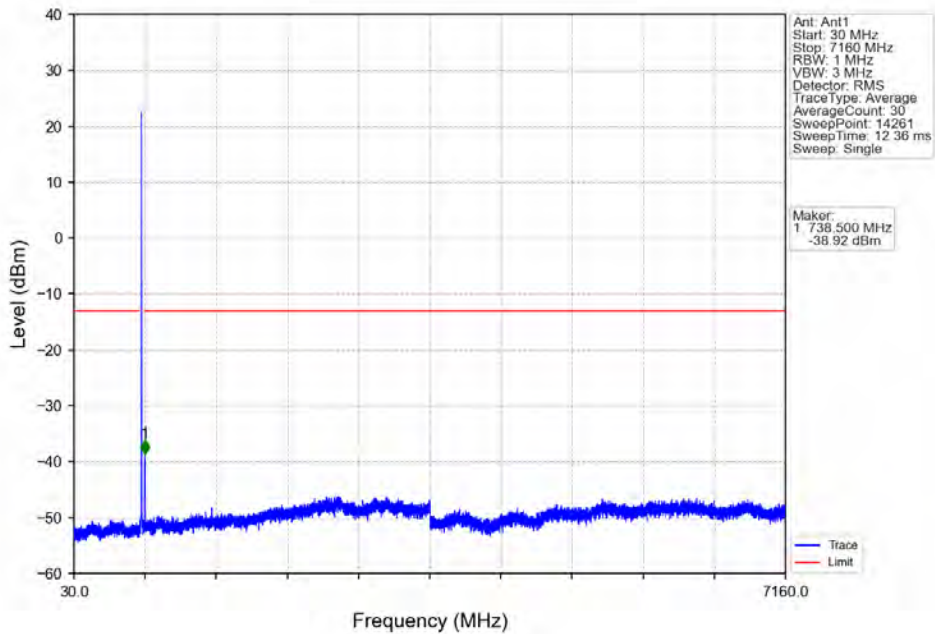


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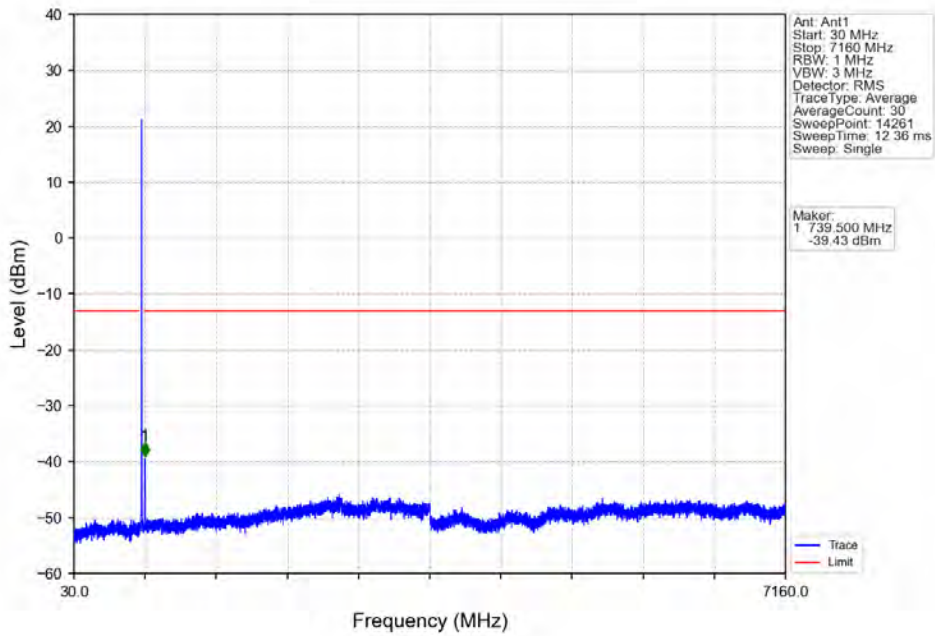
Band17_10MHz_64QAM_MCH_710MHz_RB_1_0_NTNV



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Band17_10MHz_64QAM_HCH_711MHz_RB_1_0_NTNV

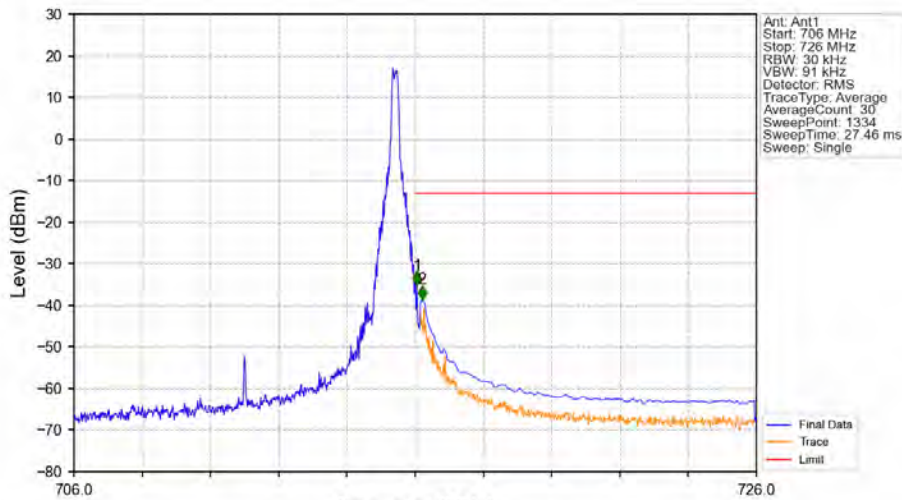


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Band17_10MHz_64QAM_HCH_711MHz_RB_1_49_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.053	-35.18	-13	Pass
716.1	726	0.1	CHP	2	716.203	-38.61	-13	Pass



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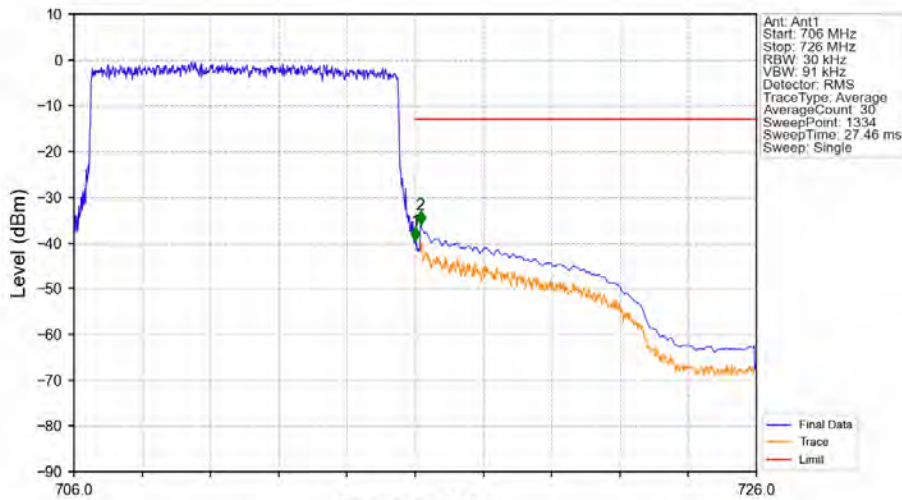
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Report No.: SEWM2311000454RG01

Rev.: 01

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Band17_10MHz_64QAM_HCH_711MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.008	-39.61	-13	Pass
716.1	726	0.1	CHP	2	716.158	-36.05	-13	Pass



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6. Field Strength of Spurious Radiation

Test Band = LTE Band 17_ TM1

Test Channel = Low Channel _ Worse ANT

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1409.18	46.07	-49.99	24.34	-74.85	-13.00	61.85	Horizontal
2	2113.77	45.20	-49.46	26.84	-72.69	-13.00	59.69	Horizontal
3	2818.36	44.48	-48.70	28.06	-71.41	-13.00	58.41	Horizontal
4	3522.95	44.19	-48.44	28.73	-70.78	-13.00	57.78	Horizontal
5	4227.54	43.75	-48.27	29.81	-69.97	-13.00	56.97	Horizontal
6	4932.13	43.38	-48.10	31.34	-68.64	-13.00	55.64	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1409.18	46.21	-49.99	24.34	-74.71	-13.00	61.71	Vertical
2	2113.77	45.29	-49.46	26.84	-72.60	-13.00	59.60	Vertical
3	2818.36	44.62	-48.70	28.06	-71.27	-13.00	58.27	Vertical
4	3522.95	44.43	-48.44	28.73	-70.54	-13.00	57.54	Vertical
5	4227.54	44.64	-48.27	29.81	-69.08	-13.00	56.08	Vertical
6	4932.13	44.08	-48.10	31.34	-67.94	-13.00	54.94	Vertical



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Test Band = LTE Band 17_TM1

Test Channel = Mid Channel _ Worse ANT

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1411.18	45.76	-49.99	24.35	-75.14	-13.00	62.14	Horizontal
2	2116.77	45.19	-49.47	26.84	-72.69	-13.00	59.69	Horizontal
3	2822.36	44.34	-48.70	28.07	-71.55	-13.00	58.55	Horizontal
4	3527.95	44.34	-48.44	28.74	-70.62	-13.00	57.62	Horizontal
5	4233.54	43.40	-48.25	29.82	-70.29	-13.00	57.29	Horizontal
6	4939.13	43.25	-48.09	31.35	-68.74	-13.00	55.74	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1411.18	45.64	-49.99	24.35	-75.26	-13.00	62.26	Vertical
2	2116.77	44.49	-49.47	26.84	-73.39	-13.00	60.39	Vertical
3	2822.36	44.13	-48.70	28.07	-71.76	-13.00	58.76	Vertical
4	3527.95	44.16	-48.44	28.74	-70.80	-13.00	57.80	Vertical
5	4233.54	43.12	-48.25	29.82	-70.57	-13.00	57.57	Vertical
6	4939.13	43.19	-48.09	31.35	-68.80	-13.00	55.80	Vertical



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Test Band = LTE Band 17_ TM1
 Test Channel = High Channel _ Worse ANT

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1413.18	45.76	-49.99	24.35	-75.13	-13.00	62.13	Horizontal
2	2119.77	44.48	-49.47	26.84	-73.40	-13.00	60.40	Horizontal
3	2826.36	44.24	-48.71	28.08	-71.64	-13.00	58.64	Horizontal
4	3532.95	44.24	-48.45	28.75	-70.72	-13.00	57.72	Horizontal
5	4239.54	43.38	-48.23	29.83	-70.28	-13.00	57.28	Horizontal
6	4946.13	44.02	-48.07	31.37	-67.94	-13.00	54.94	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1413.18	45.66	-49.99	24.35	-75.23	-13.00	62.23	Vertical
2	2119.77	44.37	-49.47	26.84	-73.51	-13.00	60.51	Vertical
3	2826.36	44.18	-48.71	28.08	-71.70	-13.00	58.70	Vertical
4	3532.95	44.01	-48.45	28.75	-70.95	-13.00	57.95	Vertical
5	4239.54	43.69	-48.23	29.83	-69.97	-13.00	56.97	Vertical
6	4946.13	43.25	-48.07	31.37	-68.71	-13.00	55.71	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) - Pre-amplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

2) All antennas of RSE are tested, and only the worst data is presented.

---End of Attachment---



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