



Report No.: SUCR240100001701
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Appendix B.51

LTE CA_12B



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SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Wireless Laboratory

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1. Effective (Isotropic) Radiated Power Output Data
Test ResultAnt1

BW (MHz)	Modulation	Frequency (MHz)	RB Allocation	Result (dBm)	Gain (dBi)	ERP (dBm)	Limit (dBm)	Verdict
CC1:5 CC2:5	CC1: QPSK CC2: QPSK	CC1:701.5 CC2:706.3	CC1: 1@0 CC2: 0@0	23.35	0.50	21.70	<=34.77	Pass
			CC1: 1@24 CC2: 1@0	23.90	0.50	22.25	<=34.77	Pass
			CC1: 12@0 CC2: 12@13	22.72	0.50	21.07	<=34.77	Pass
			CC1: 12@13 CC2: 12@0	23.17	0.50	21.52	<=34.77	Pass
			CC1: 25@0 CC2: 25@0	22.25	0.50	20.60	<=34.77	Pass
		CC1:705.1 CC2:709.9	CC1: 1@0 CC2: 0@0	23.31	0.50	21.66	<=34.77	Pass
			CC1: 1@24 CC2: 1@0	23.93	0.50	22.28	<=34.77	Pass
			CC1: 12@0 CC2: 12@13	22.71	0.50	21.06	<=34.77	Pass
			CC1: 12@13 CC2: 12@0	23.18	0.50	21.53	<=34.77	Pass
			CC1: 25@0 CC2: 25@0	22.21	0.50	20.56	<=34.77	Pass
	CC1:708.7 CC2:713.5	CC1: 1@0 CC2: 0@0	22.96	0.50	21.31	<=34.77	Pass	
		CC1: 1@24 CC2: 1@0	24.03	0.50	22.38	<=34.77	Pass	
		CC1: 12@0 CC2: 12@13	22.74	0.50	21.09	<=34.77	Pass	
		CC1: 12@13 CC2: 12@0	23.20	0.50	21.55	<=34.77	Pass	
		CC1: 25@0 CC2: 25@0	22.24	0.50	20.59	<=34.77	Pass	
	CC1: 16QAM CC2: 16QAM	CC1:701.5 CC2:706.3	CC1: 1@0 CC2: 0@0	22.83	0.50	21.18	<=34.77	Pass
			CC1: 1@24 CC2: 1@0	23.50	0.50	21.85	<=34.77	Pass
			CC1: 12@0 CC2: 12@13	22.55	0.50	20.90	<=34.77	Pass
			CC1: 12@13 CC2: 12@0	22.33	0.50	20.68	<=34.77	Pass
			CC1: 25@0 CC2: 25@0	21.37	0.50	19.72	<=34.77	Pass
CC1:705.1 CC2:709.9		CC1: 1@0 CC2: 0@0	23.03	0.50	21.38	<=34.77	Pass	
		CC1: 1@24 CC2: 1@0	23.46	0.50	21.81	<=34.77	Pass	
		CC1: 12@0	22.57	0.50	20.92	<=34.77	Pass	



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	CC1: 64QAM CC2: 64QAM	CC1:708.7 CC2:713.5	CC2: 12@13							
			CC1: 12@13 CC2: 12@0	22.24	0.50	20.59	<=34.77	Pass		
			CC1: 25@0 CC2: 25@0	21.36	0.50	19.71	<=34.77	Pass		
		CC1:701.5 CC2:706.3	CC1:1@0 CC2:0@0	CC1: 1@0	23.03	0.50	21.38	<=34.77	Pass	
				CC1: 1@24 CC2: 1@0	23.37	0.50	21.72	<=34.77	Pass	
			CC1:12@0 CC2:12@13	CC1: 12@0	22.62	0.50	20.97	<=34.77	Pass	
				CC1: 12@13 CC2: 12@0	22.22	0.50	20.57	<=34.77	Pass	
			CC1:25@0 CC2:25@0	CC1: 25@0	21.33	0.50	19.68	<=34.77	Pass	
				CC1: 1@0 CC2: 0@0	22.57	0.50	20.92	<=34.77	Pass	
		CC1: 256QAM CC2: 256QAM	CC1:705.1 CC2:709.9	CC1:1@24 CC2:1@0	CC1: 1@24 CC2: 1@0	22.10	0.50	20.45	<=34.77	Pass
					CC1: 12@0 CC2: 12@13	21.93	0.50	20.28	<=34.77	Pass
				CC1:12@13 CC2:12@0	CC1: 12@13 CC2: 12@0	21.24	0.50	19.59	<=34.77	Pass
					CC1: 25@0 CC2: 25@0	21.36	0.50	19.71	<=34.77	Pass
				CC1:708.7 CC2:713.5	CC1:1@0 CC2:0@0	CC1: 1@0 CC2: 0@0	21.69	0.50	20.04	<=34.77
	CC1: 1@24 CC2: 1@0		22.52			0.50	20.87	<=34.77	Pass	
	CC1:12@0 CC2:12@13		CC1: 12@0 CC2: 12@13		22.00	0.50	20.35	<=34.77	Pass	
			CC1: 12@13 CC2: 12@0		21.33	0.50	19.68	<=34.77	Pass	
	CC1:25@0 CC2:25@0		CC1: 25@0 CC2: 25@0		21.26	0.50	19.61	<=34.77	Pass	
			CC1:701.5 CC2:706.3	CC1:1@0 CC2:0@0	CC1: 1@0 CC2: 0@0	21.47	0.50	19.82	<=34.77	Pass
	CC1: 1@24 CC2: 1@0	22.26			0.50	20.61	<=34.77	Pass		
	CC1:12@0 CC2:12@13	CC1: 12@0 CC2: 12@13		22.13	0.50	20.48	<=34.77	Pass		
	CC1:12@13 CC2:12@0	CC1: 12@13 CC2: 12@0	21.39	0.50	19.74	<=34.77	Pass			
		CC1:25@0 CC2:25@0	21.31	0.50	19.66	<=34.77	Pass			
		CC1:1@0 CC2:0@0	CC1: 1@0 CC2: 0@0	18.60	0.50	16.95	<=34.77	Pass		
	CC1:1@24 CC2:1@0	CC1: 1@24 CC2: 1@0	19.47	0.50	17.82	<=34.77	Pass			
		CC1:12@0	20.95	0.50	19.30	<=34.77	Pass			



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		CC1:705.1 CC2:709.9	CC2: 12@13							
			CC1: 12@13 CC2: 12@0	19.25	0.50	17.60	<=34.77	Pass		
			CC1: 25@0 CC2: 25@0	19.25	0.50	17.60	<=34.77	Pass		
			CC1: 1@0 CC2: 0@0	18.81	0.50	17.16	<=34.77	Pass		
			CC1: 1@24 CC2: 1@0	19.42	0.50	17.77	<=34.77	Pass		
			CC1: 12@0 CC2: 12@13	21.00	0.50	19.35	<=34.77	Pass		
			CC1: 12@13 CC2: 12@0	19.32	0.50	17.67	<=34.77	Pass		
			CC1: 25@0 CC2: 25@0	19.29	0.50	17.64	<=34.77	Pass		
		CC1:708.7 CC2:713.5	CC1: 1@0 CC2: 0@0	18.49	0.50	16.84	<=34.77	Pass		
			CC1: 1@24 CC2: 1@0	19.50	0.50	17.85	<=34.77	Pass		
			CC1: 12@0 CC2: 12@13	21.11	0.50	19.46	<=34.77	Pass		
			CC1: 12@13 CC2: 12@0	19.25	0.50	17.60	<=34.77	Pass		
			CC1: 25@0 CC2: 25@0	19.27	0.50	17.62	<=34.77	Pass		
		CC1:5 CC2:10	CC1: QPSK CC2: QPSK	CC1:701.5 CC2:708.7	CC1: 1@0 CC2: 0@0	23.39	0.50	21.74	<=34.77	Pass
					CC1: 1@24 CC2: 1@0	24.00	0.50	22.35	<=34.77	Pass
					CC1: 12@0 CC2: 25@25	19.26	0.50	17.61	<=34.77	Pass
CC1: 12@13 CC2: 25@0	22.21				0.50	20.56	<=34.77	Pass		
CC1: 25@0 CC2: 50@0	22.18				0.50	20.53	<=34.77	Pass		
CC1:702.7 CC2:709.9	CC1: 1@0 CC2: 0@0			23.45	0.50	21.80	<=34.77	Pass		
	CC1: 1@24 CC2: 1@0			24.00	0.50	22.35	<=34.77	Pass		
	CC1: 12@0 CC2: 25@25			19.30	0.50	17.65	<=34.77	Pass		
	CC1: 12@13 CC2: 25@0			22.26	0.50	20.61	<=34.77	Pass		
	CC1: 25@0 CC2: 50@0			22.33	0.50	20.68	<=34.77	Pass		
CC1:703.8 CC2:711	CC1: 1@0 CC2: 0@0			23.47	0.50	21.82	<=34.77	Pass		
	CC1: 1@24 CC2: 1@0			23.91	0.50	22.26	<=34.77	Pass		
	CC1: 12@0			19.24	0.50	17.59	<=34.77	Pass		



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			CC2: 25@25						
			CC1: 12@13 CC2: 25@0	22.25	0.50	20.60	<=34.77	Pass	
			CC1: 25@0 CC2: 50@0	22.28	0.50	20.63	<=34.77	Pass	
	CC1: 16QAM CC2: 16QAM	CC1:701.5 CC2:708.7	CC1: 1@0 CC2: 0@0	23.09	0.50	21.44	<=34.77	Pass	
			CC1: 1@24 CC2: 1@0	23.44	0.50	21.79	<=34.77	Pass	
			CC1: 12@0 CC2: 25@25	19.36	0.50	17.71	<=34.77	Pass	
			CC1: 12@13 CC2: 25@0	21.34	0.50	19.69	<=34.77	Pass	
			CC1: 25@0 CC2: 50@0	21.31	0.50	19.66	<=34.77	Pass	
		CC1:702.7 CC2:709.9	CC1: 1@0 CC2: 0@0	22.59	0.50	20.94	<=34.77	Pass	
			CC1: 1@24 CC2: 1@0	23.35	0.50	21.70	<=34.77	Pass	
			CC1: 12@0 CC2: 25@25	19.24	0.50	17.59	<=34.77	Pass	
			CC1: 12@13 CC2: 25@0	21.23	0.50	19.58	<=34.77	Pass	
			CC1: 25@0 CC2: 50@0	21.31	0.50	19.66	<=34.77	Pass	
		CC1:703.8 CC2:711	CC1: 1@0 CC2: 0@0	22.52	0.50	20.87	<=34.77	Pass	
			CC1: 1@24 CC2: 1@0	23.38	0.50	21.73	<=34.77	Pass	
			CC1: 12@0 CC2: 25@25	19.28	0.50	17.63	<=34.77	Pass	
			CC1: 12@13 CC2: 25@0	21.26	0.50	19.61	<=34.77	Pass	
			CC1: 25@0 CC2: 50@0	21.21	0.50	19.56	<=34.77	Pass	
	CC1: 64QAM CC2: 64QAM	CC1:701.5 CC2:708.7	CC1: 1@0 CC2: 0@0	22.46	0.50	20.81	<=34.77	Pass	
			CC1: 1@24 CC2: 1@0	22.18	0.50	20.53	<=34.77	Pass	
			CC1: 12@0 CC2: 25@25	19.26	0.50	17.61	<=34.77	Pass	
			CC1: 12@13 CC2: 25@0	21.34	0.50	19.69	<=34.77	Pass	
			CC1: 25@0 CC2: 50@0	21.28	0.50	19.63	<=34.77	Pass	
		CC1:702.7 CC2:709.9	CC1: 1@0 CC2: 0@0	21.78	0.50	20.13	<=34.77	Pass	
			CC1: 1@24 CC2: 1@0	22.19	0.50	20.54	<=34.77	Pass	
			CC1: 12@0	19.28	0.50	17.63	<=34.77	Pass	



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CC1: 256QAM CC2: 256QAM	CC1:703.8 CC2:711	CC2: 25@25						
		CC1: 12@13 CC2: 25@0	21.33	0.50	19.68	<=34.77	Pass	
		CC1: 25@0 CC2: 50@0	21.32	0.50	19.67	<=34.77	Pass	
		CC1: 1@0 CC2: 0@0	21.32	0.50	19.67	<=34.77	Pass	
		CC1: 1@24 CC2: 1@0	22.05	0.50	20.40	<=34.77	Pass	
		CC1: 12@0 CC2: 25@25	19.26	0.50	17.61	<=34.77	Pass	
		CC1: 12@13 CC2: 25@0	21.24	0.50	19.59	<=34.77	Pass	
		CC1: 25@0 CC2: 50@0	21.25	0.50	19.60	<=34.77	Pass	
	CC1:701.5 CC2:708.7	CC1: 1@0 CC2: 0@0	18.81	0.50	17.16	<=34.77	Pass	
		CC1: 1@24 CC2: 1@0	19.45	0.50	17.80	<=34.77	Pass	
		CC1: 12@0 CC2: 25@25	18.77	0.50	17.12	<=34.77	Pass	
		CC1: 12@13 CC2: 25@0	19.22	0.50	17.57	<=34.77	Pass	
		CC1: 25@0 CC2: 50@0	19.26	0.50	17.61	<=34.77	Pass	
		CC1: 1@0 CC2: 0@0	18.61	0.50	16.96	<=34.77	Pass	
		CC1: 1@24 CC2: 1@0	19.49	0.50	17.84	<=34.77	Pass	
		CC1: 12@0 CC2: 25@25	18.83	0.50	17.18	<=34.77	Pass	
	CC1:702.7 CC2:709.9	CC1: 12@13 CC2: 25@0	19.28	0.50	17.63	<=34.77	Pass	
		CC1: 25@0 CC2: 50@0	19.20	0.50	17.55	<=34.77	Pass	
		CC1: 1@0 CC2: 0@0	18.80	0.50	17.15	<=34.77	Pass	
		CC1: 1@24 CC2: 1@0	19.31	0.50	17.66	<=34.77	Pass	
		CC1: 12@0 CC2: 25@25	18.79	0.50	17.14	<=34.77	Pass	
		CC1: 12@13 CC2: 25@0	19.20	0.50	17.55	<=34.77	Pass	
		CC1: 25@0 CC2: 50@0	19.28	0.50	17.63	<=34.77	Pass	
		CC1: 12@13 CC2: 25@0	19.20	0.50	17.55	<=34.77	Pass	



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2. 99% & 26dB Bandwidth

2.1 CA_12B_NTNV_OBW

2.1.1 Test Result

Band: CA_12B / NTNv						
BW (MHz)	Modulation	Frequency (MHz)	RB Allocation	99% Occupied Bandwidth (MHz)		Verdict
				Sum	Limit	
CC1:5 CC2:5	CC1: QPSK	CC1:701.5	CC1: 25@0	9.28	/	Pass
		CC2:706.3	CC2: 25@0			
	CC2: QPSK	CC1:708.7	CC1: 25@0	9.29	/	Pass
		CC2:713.5	CC2: 25@0			
	CC1: 16QAM	CC1:701.5	CC1: 25@0	9.28	/	Pass
		CC2:706.3	CC2: 25@0			
	CC2: 16QAM	CC1:708.7	CC1: 25@0	9.28	/	Pass
		CC2:713.5	CC2: 25@0			
	CC1: 64QAM	CC1:701.5	CC1: 25@0	9.28	/	Pass
		CC2:706.3	CC2: 25@0			
	CC2: 64QAM	CC1:708.7	CC1: 25@0	9.27	/	Pass
		CC2:713.5	CC2: 25@0			
CC1: 256QAM	CC1:701.5	CC1: 25@0	9.29	/	Pass	
	CC2:706.3	CC2: 25@0				
CC2: 256QAM	CC1:708.7	CC1: 25@0	9.28	/	Pass	
	CC2:713.5	CC2: 25@0				
CC1:5 CC2:10	CC1: QPSK	CC1:701.5	CC1: 25@0	13.95	/	Pass
		CC2:708.7	CC2: 50@0			
	CC2: QPSK	CC1:703.8	CC1: 25@0	13.95	/	Pass
		CC2:711	CC2: 50@0			
	CC1: 16QAM	CC1:701.5	CC1: 25@0	13.90	/	Pass
		CC2:708.7	CC2: 50@0			
	CC2: 16QAM	CC1:703.8	CC1: 25@0	13.93	/	Pass
		CC2:711	CC2: 50@0			
	CC1: 64QAM	CC1:701.5	CC1: 25@0	13.90	/	Pass
		CC2:708.7	CC2: 50@0			
	CC2: 64QAM	CC1:703.8	CC1: 25@0	13.89	/	Pass
		CC2:711	CC2: 50@0			
CC1: 256QAM	CC1:701.5	CC1: 25@0	13.88	/	Pass	
	CC2:708.7	CC2: 50@0				
CC2: 256QAM	CC1:703.8	CC1: 25@0	13.88	/	Pass	
	CC2:711	CC2: 50@0				

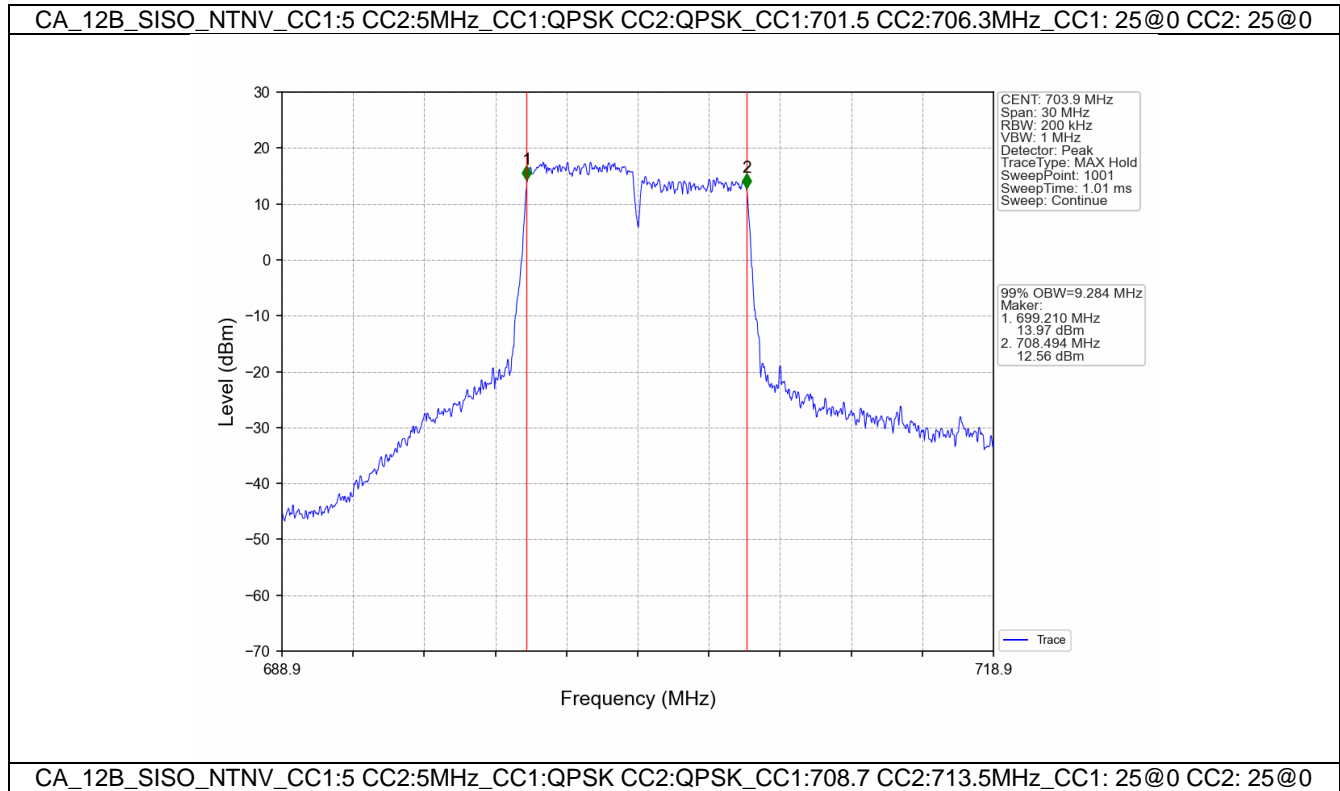


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2.1.2 Test Graph

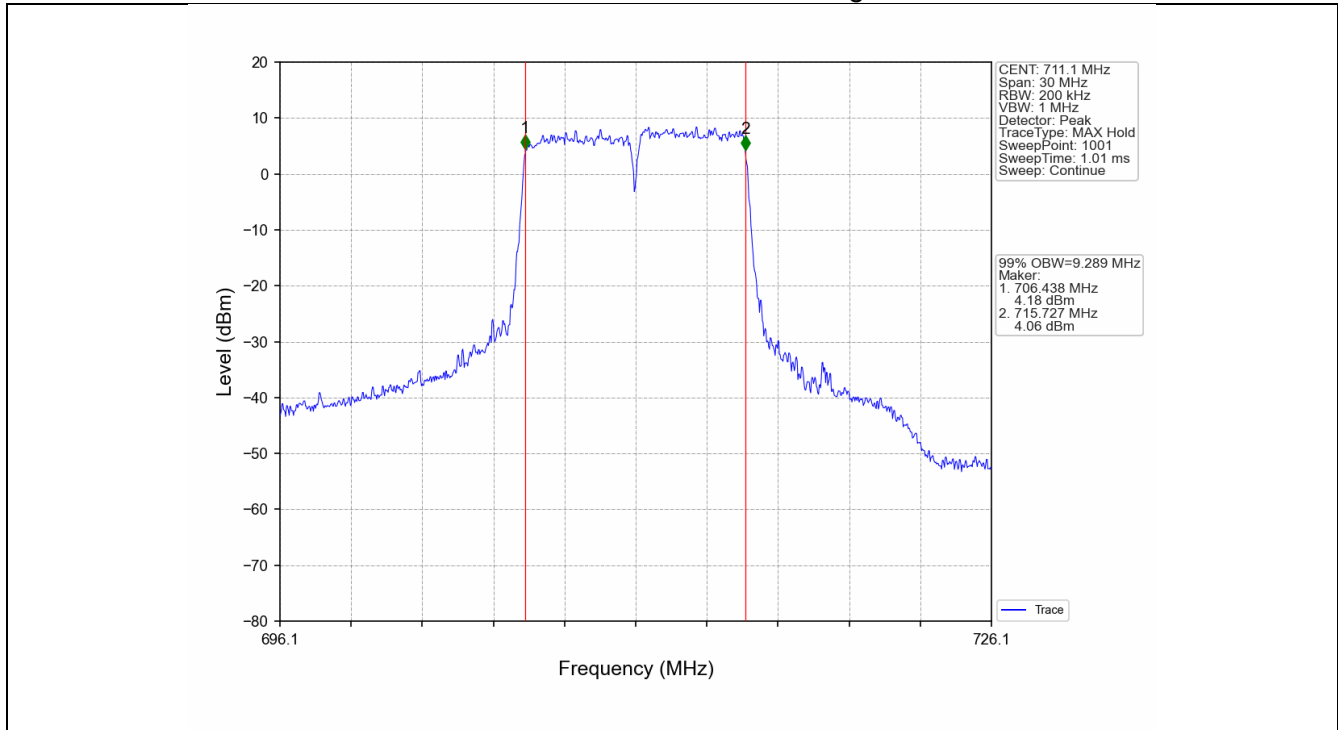


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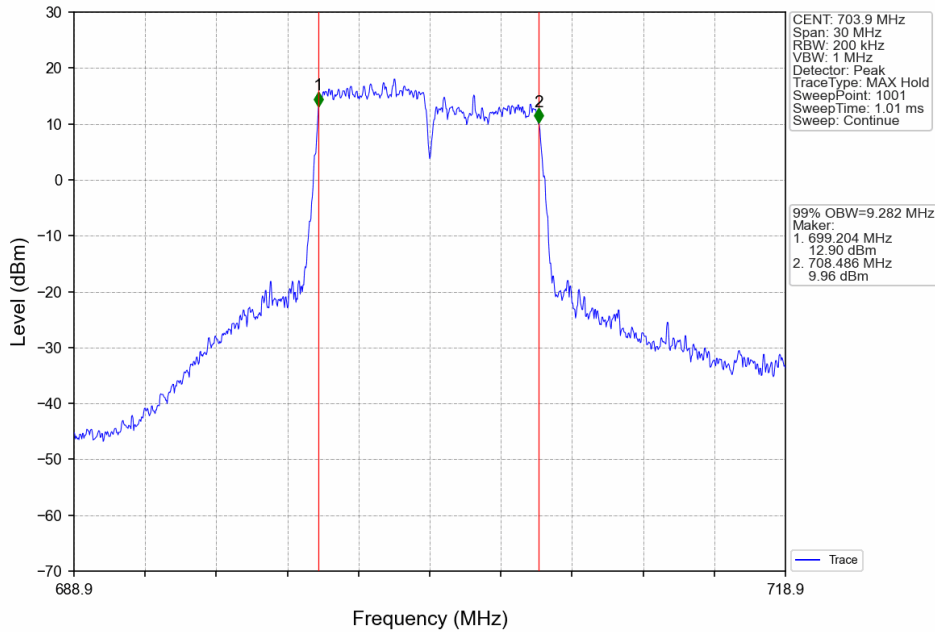
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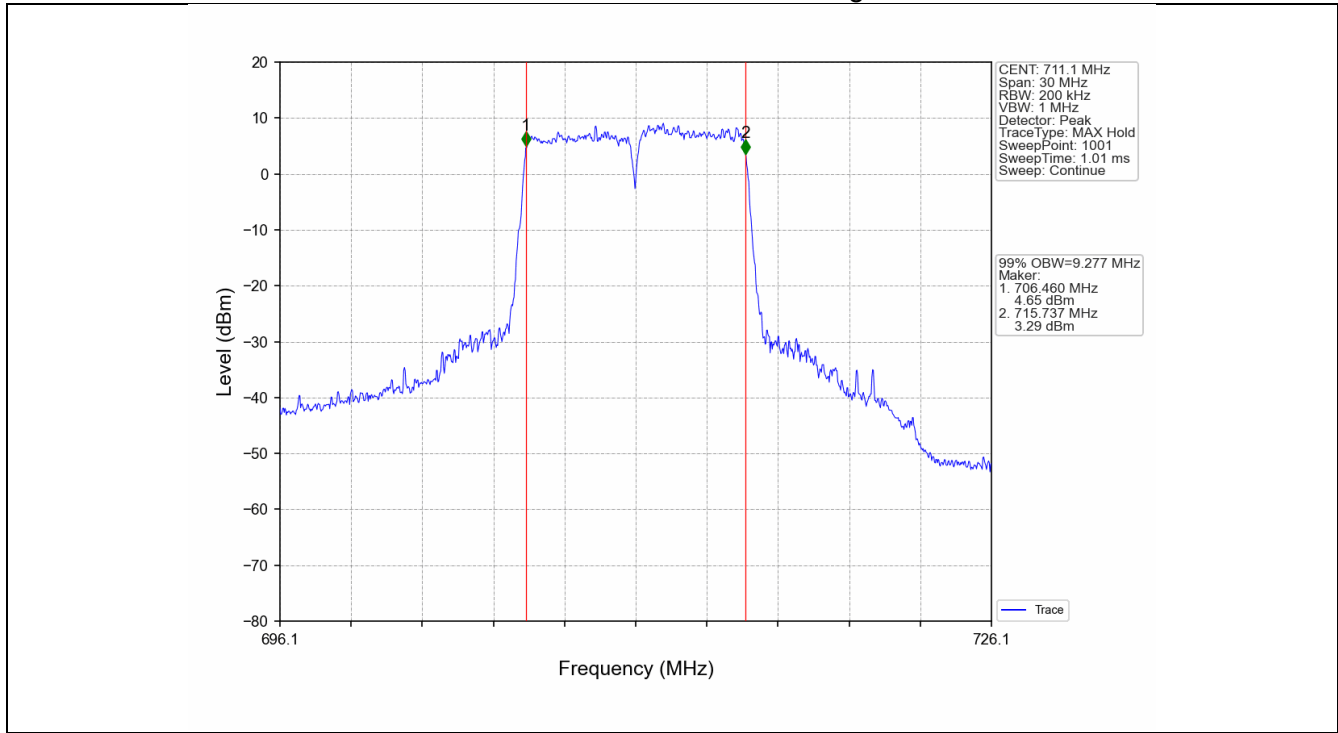
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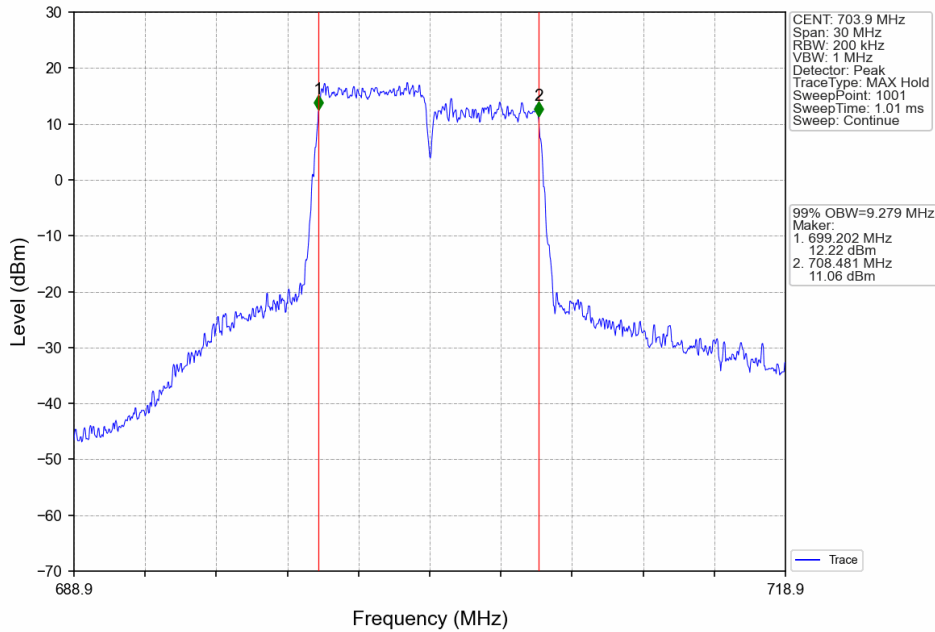
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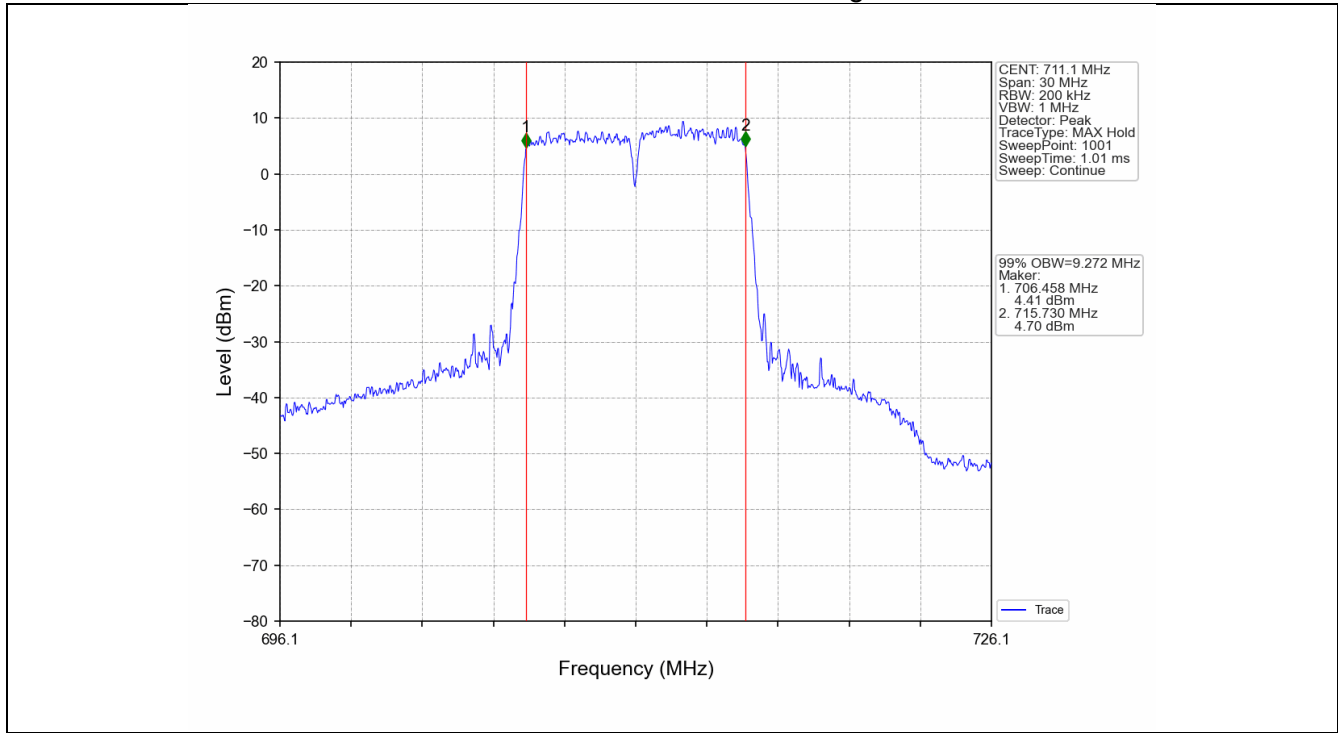
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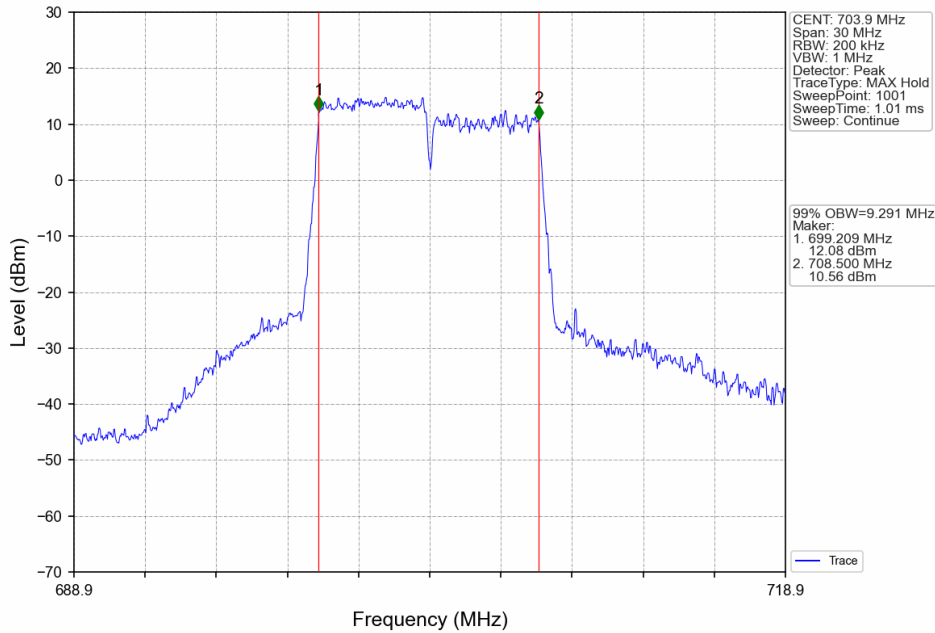
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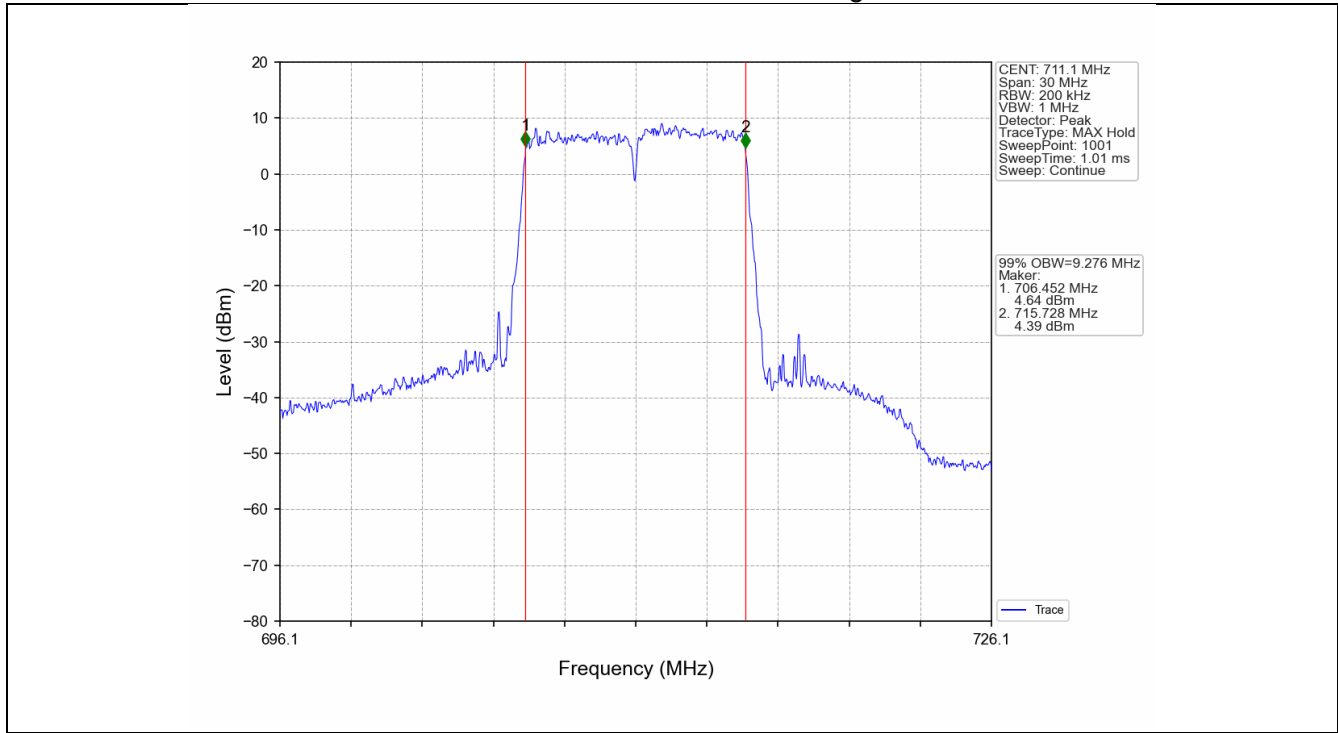


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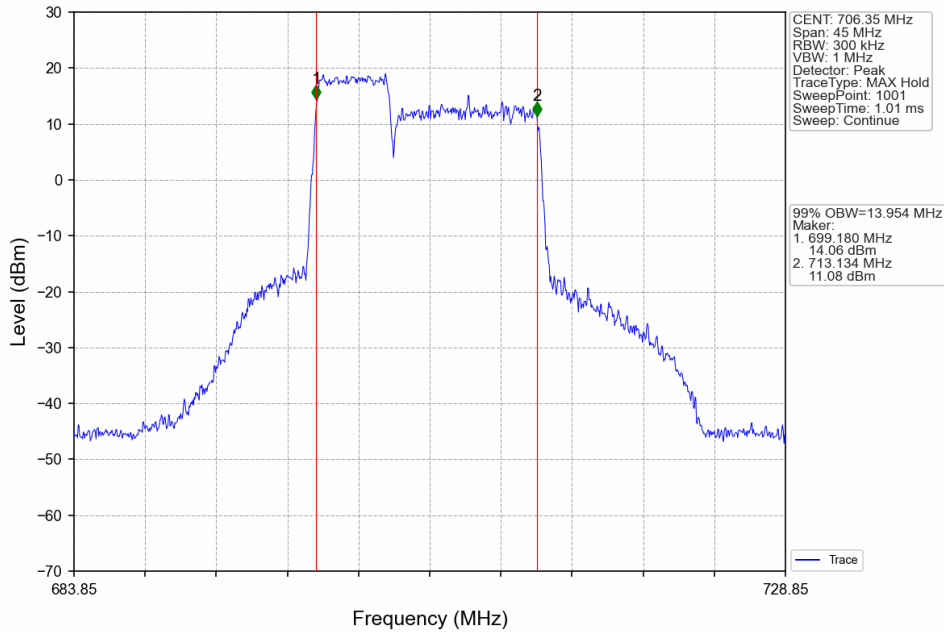
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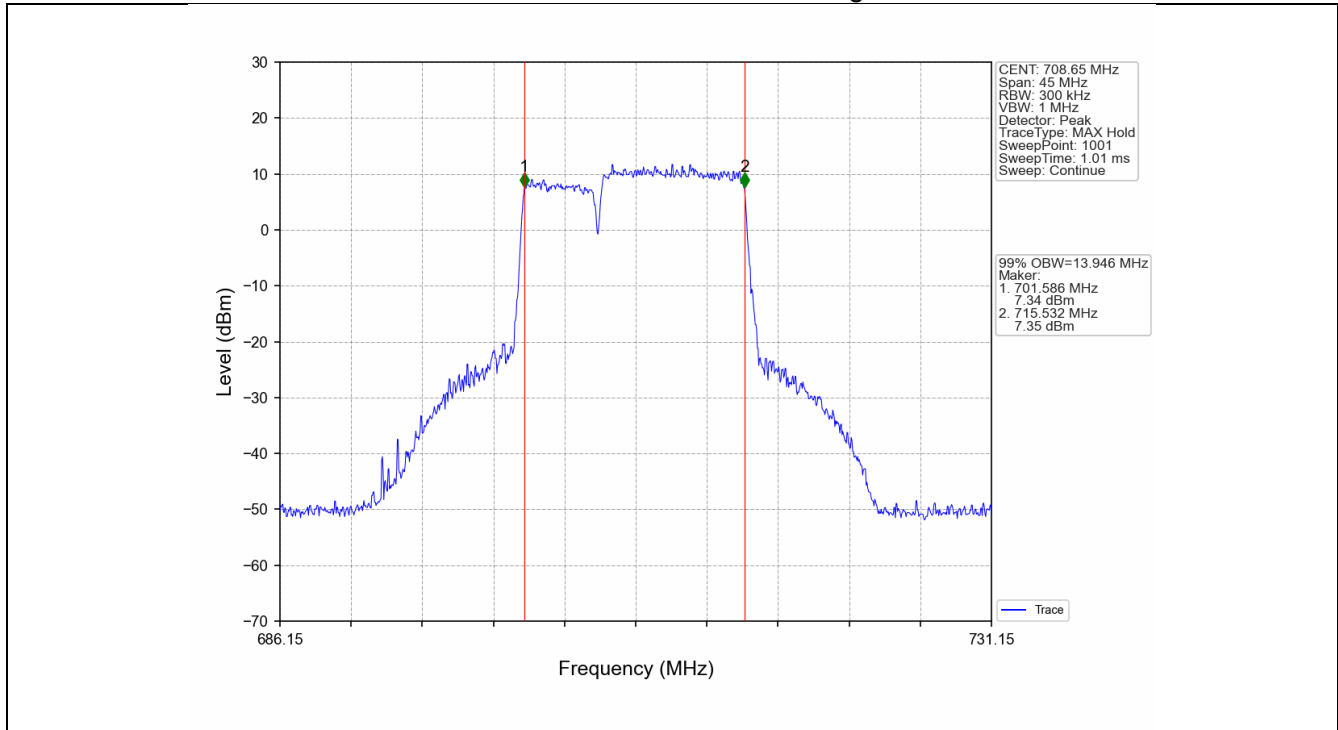
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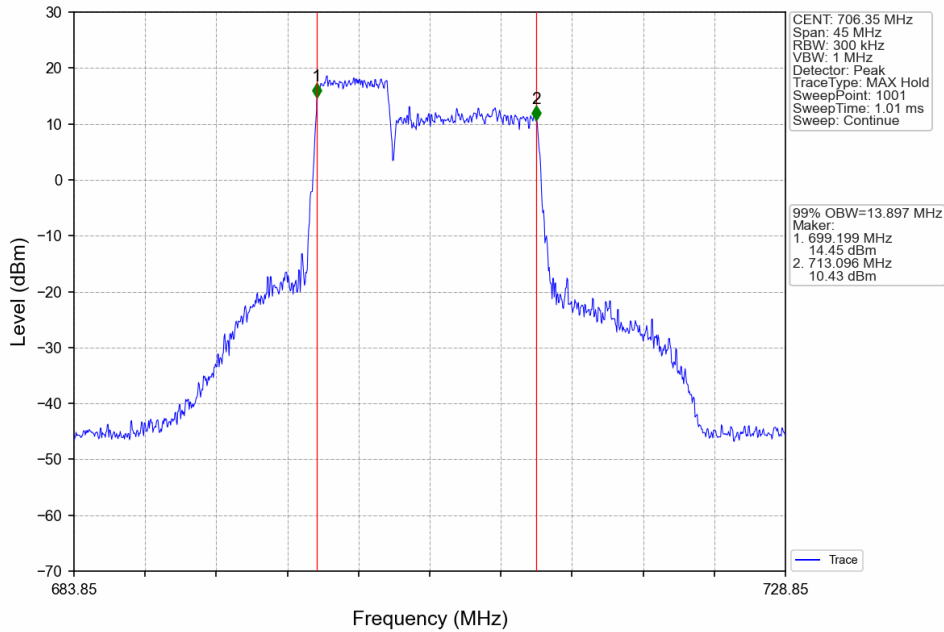
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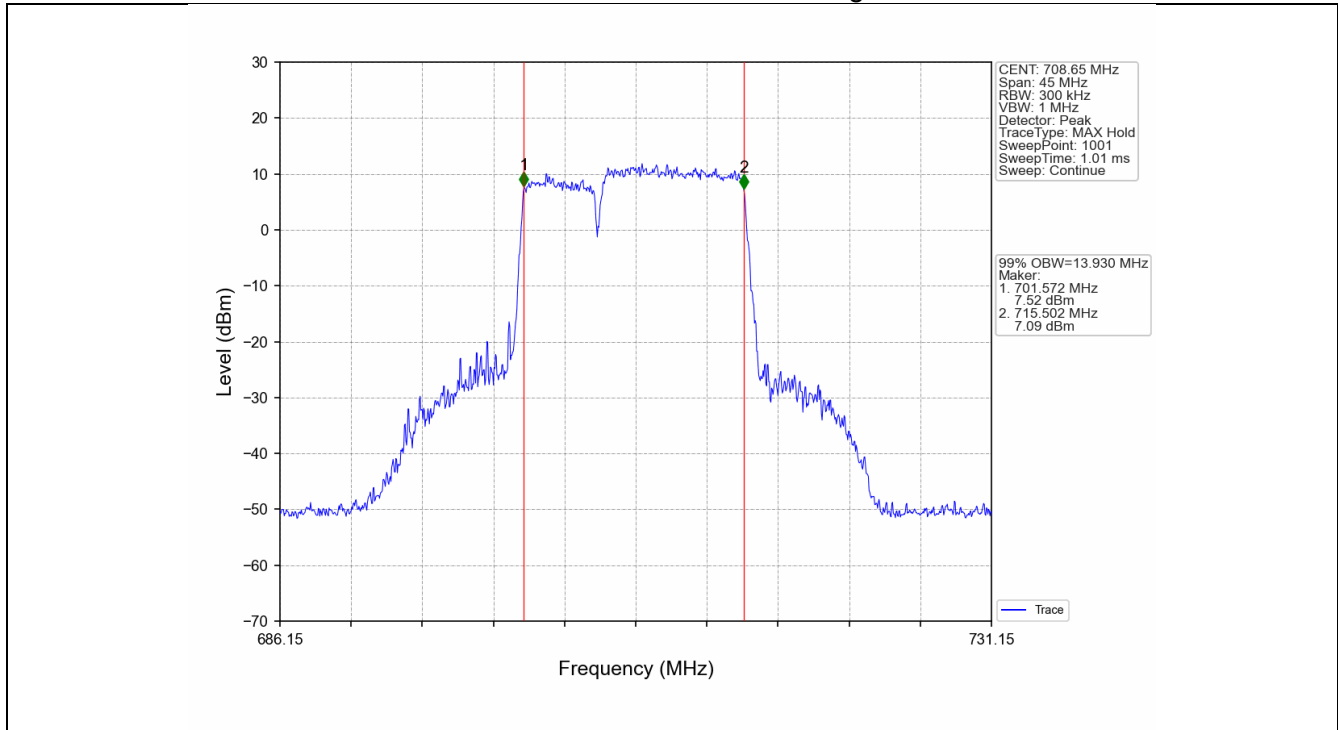
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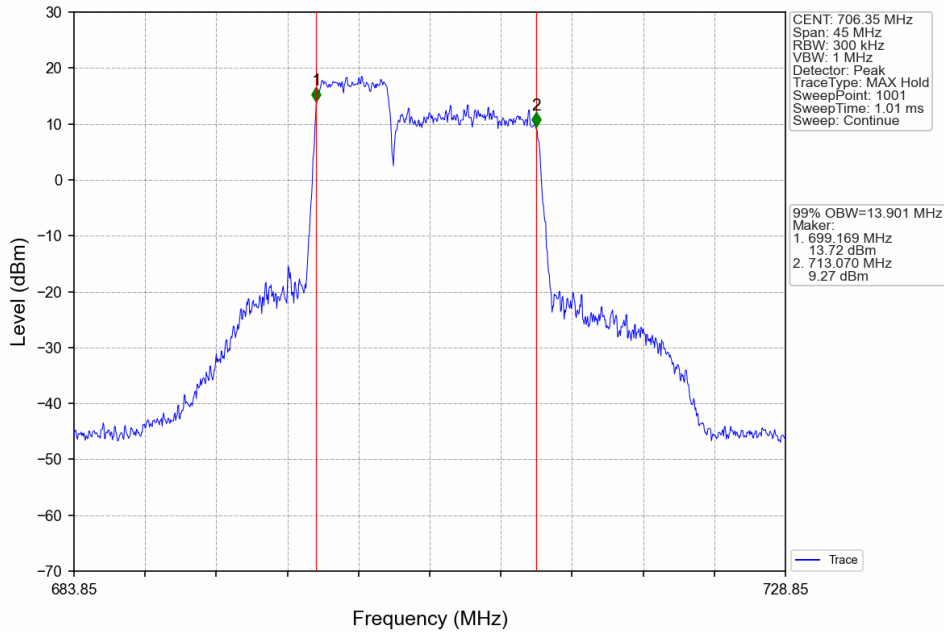
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Wireless Laboratory

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CA_12B_SISO_NTNV_CC1:5 CC2:10MHz_CC1:64QAM CC2:64QAM_CC1:701.5 CC2:708.7MHz_CC1: 25@0 CC2: 50@0



CA_12B_SISO_NTNV_CC1:5 CC2:10MHz_CC1:64QAM CC2:64QAM_CC1:703.8 CC2:711MHz_CC1: 25@0 CC2: 50@0

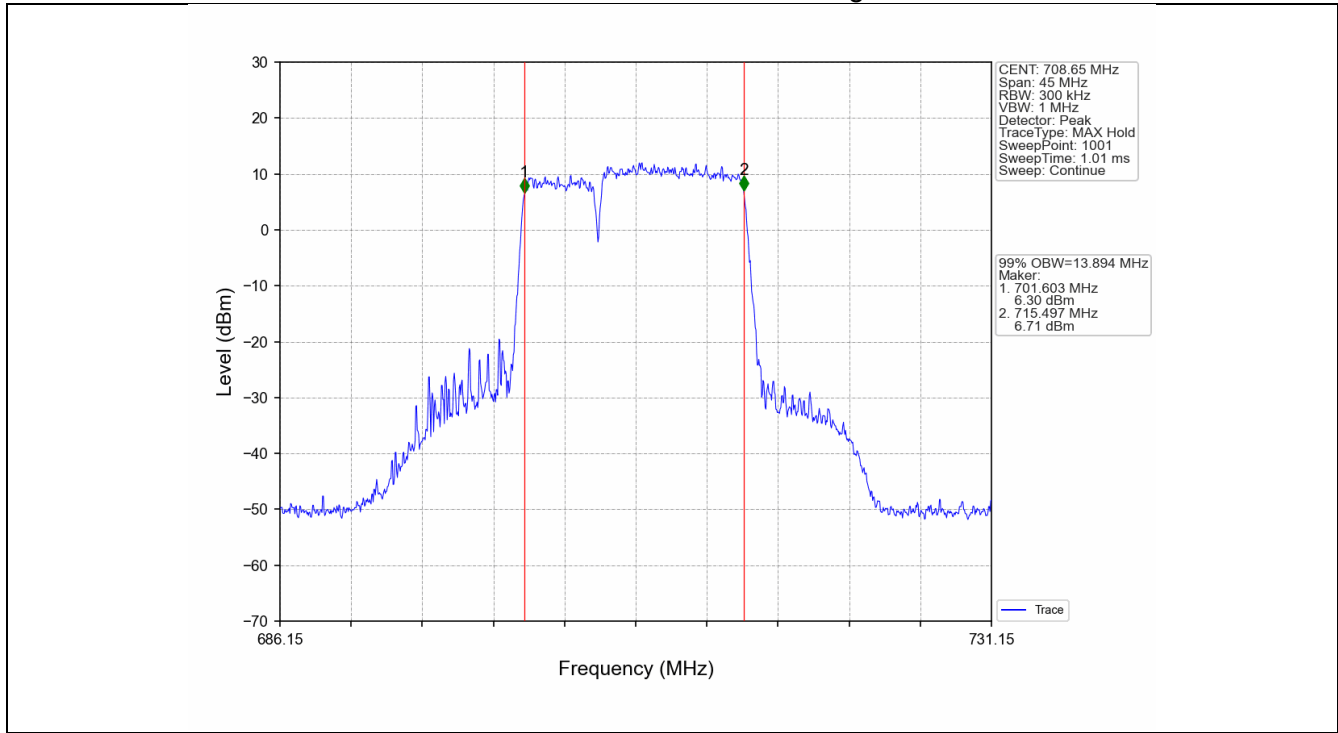


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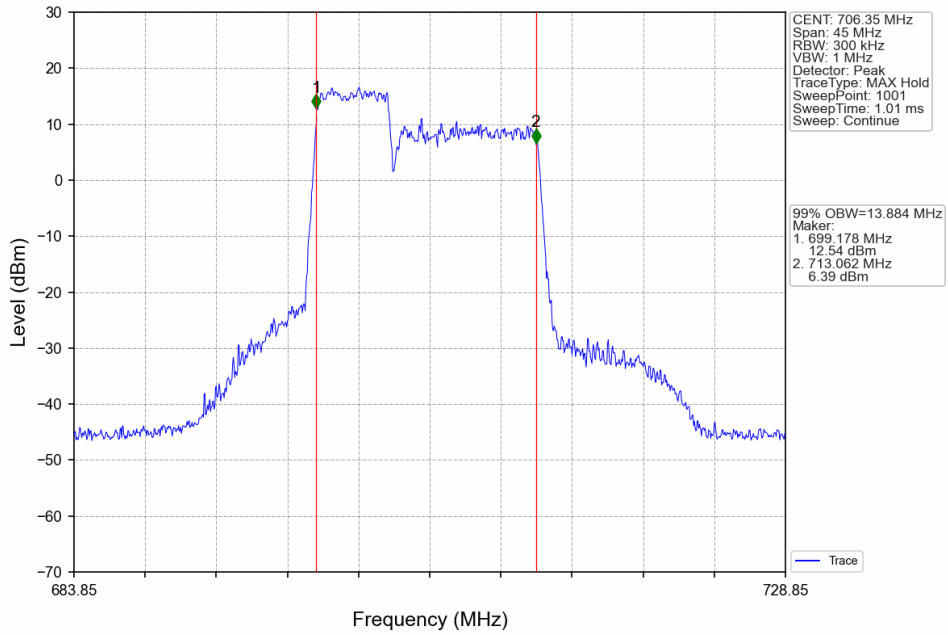


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2.2 CA_12B_NTNV_XDB

2.2.1 Test Result

Band: CA_12B / NTN						
BW (MHz)	Modulation	Frequency (MHz)	RB Allocation	26dB Bandwidth (MHz)		Verdict
				Sum	Limit	
CC1:5 CC2:5	CC1: QPSK CC2: QPSK	CC1:701.5	CC1: 25@0	10.03	/	Pass
		CC2:706.3	CC2: 25@0			
	CC1: 16QAM CC2: 16QAM	CC1:708.7	CC1: 25@0	10.10	/	Pass
		CC2:713.5	CC2: 25@0			
	CC1: 16QAM CC2: 16QAM	CC1:701.5	CC1: 25@0	10.07	/	Pass
		CC2:706.3	CC2: 25@0			
	CC1: 64QAM CC2: 64QAM	CC1:708.7	CC1: 25@0	10.10	/	Pass
		CC2:713.5	CC2: 25@0			
CC1: 64QAM CC2: 64QAM	CC1:701.5	CC1: 25@0	9.99	/	Pass	
	CC2:706.3	CC2: 25@0				
CC1: 256QAM CC2: 256QAM	CC1:708.7	CC1: 25@0	10.06	/	Pass	
	CC2:713.5	CC2: 25@0				
CC1: 256QAM CC2: 256QAM	CC1:701.5	CC1: 25@0	10.11	/	Pass	
	CC2:706.3	CC2: 25@0				
CC1: 256QAM CC2: 256QAM	CC1:708.7	CC1: 25@0	10.10	/	Pass	
	CC2:713.5	CC2: 25@0				
CC1:5 CC2:10	CC1: QPSK CC2: QPSK	CC1:701.5	CC1: 25@0	14.90	/	Pass
		CC2:708.7	CC2: 50@0			
	CC1: 16QAM CC2: 16QAM	CC1:703.8	CC1: 25@0	15.02	/	Pass
		CC2:711	CC2: 50@0			
	CC1: 16QAM CC2: 16QAM	CC1:701.5	CC1: 25@0	14.85	/	Pass
		CC2:708.7	CC2: 50@0			
	CC1: 64QAM CC2: 64QAM	CC1:703.8	CC1: 25@0	15.00	/	Pass
		CC2:711	CC2: 50@0			
	CC1: 64QAM CC2: 64QAM	CC1:701.5	CC1: 25@0	14.91	/	Pass
		CC2:708.7	CC2: 50@0			
	CC1: 256QAM CC2: 256QAM	CC1:703.8	CC1: 25@0	15.05	/	Pass
		CC2:711	CC2: 50@0			
CC1: 256QAM CC2: 256QAM	CC1:701.5	CC1: 25@0	14.84	/	Pass	
	CC2:708.7	CC2: 50@0				
CC1: 256QAM CC2: 256QAM	CC1:703.8	CC1: 25@0	15.07	/	Pass	
	CC2:711	CC2: 50@0				

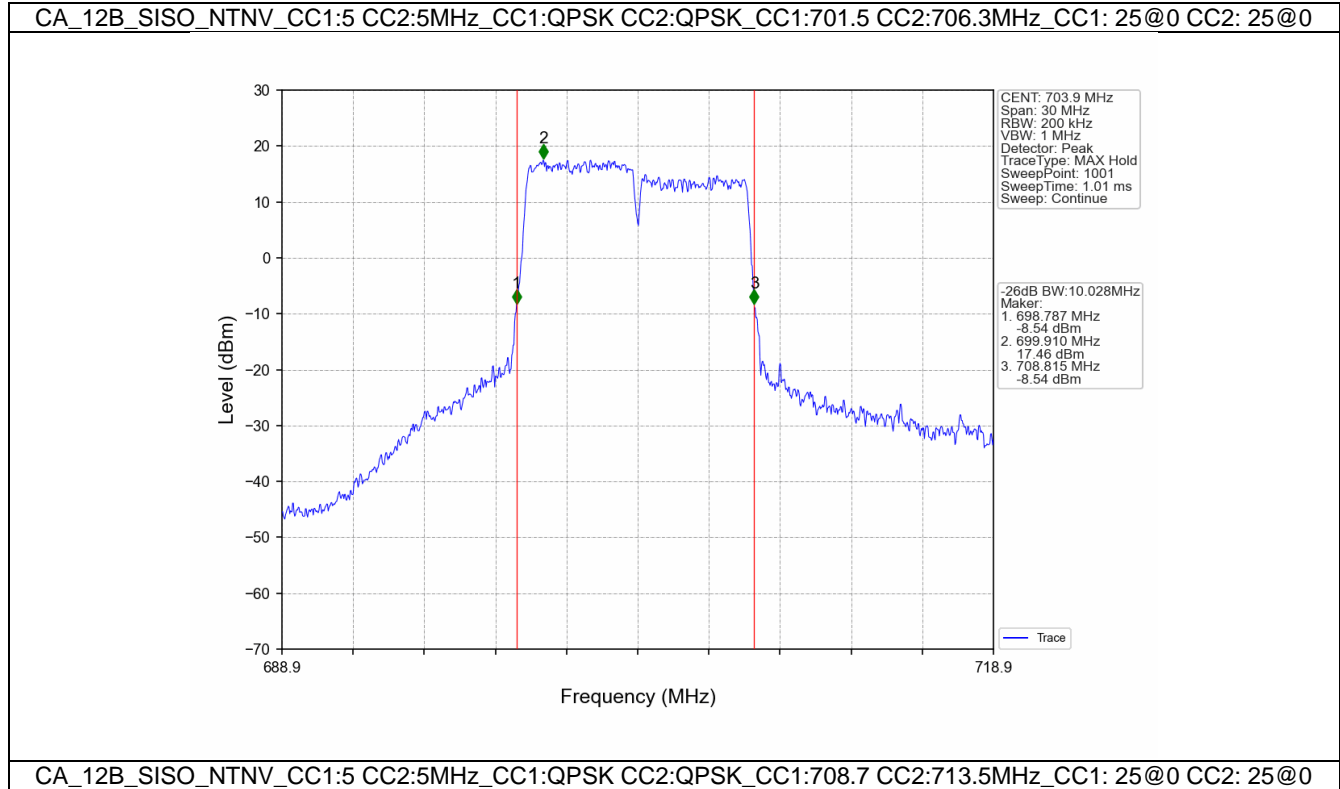


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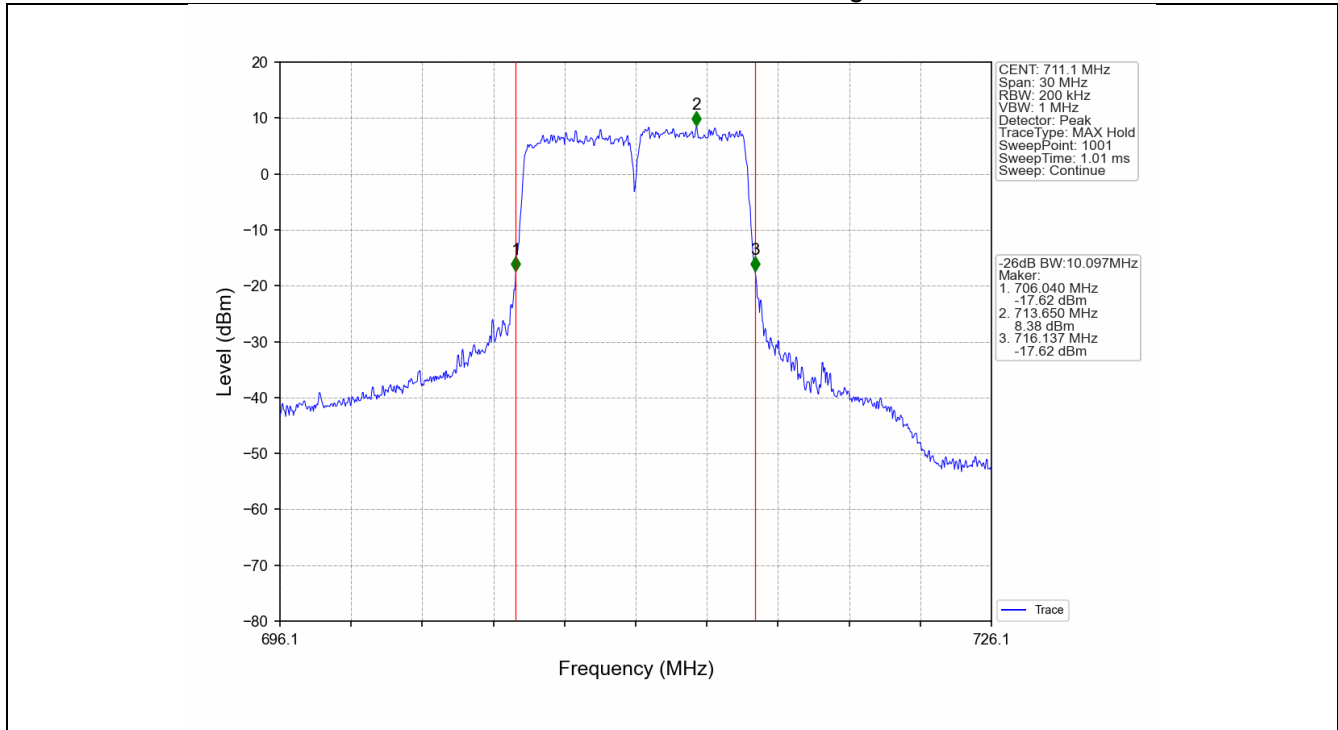
2.2.2 Test Graph



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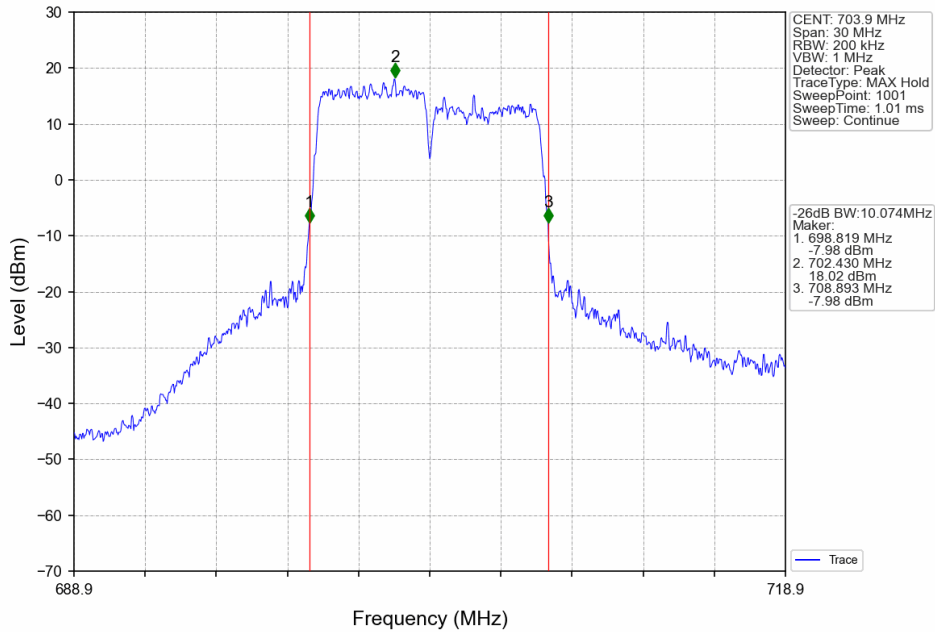


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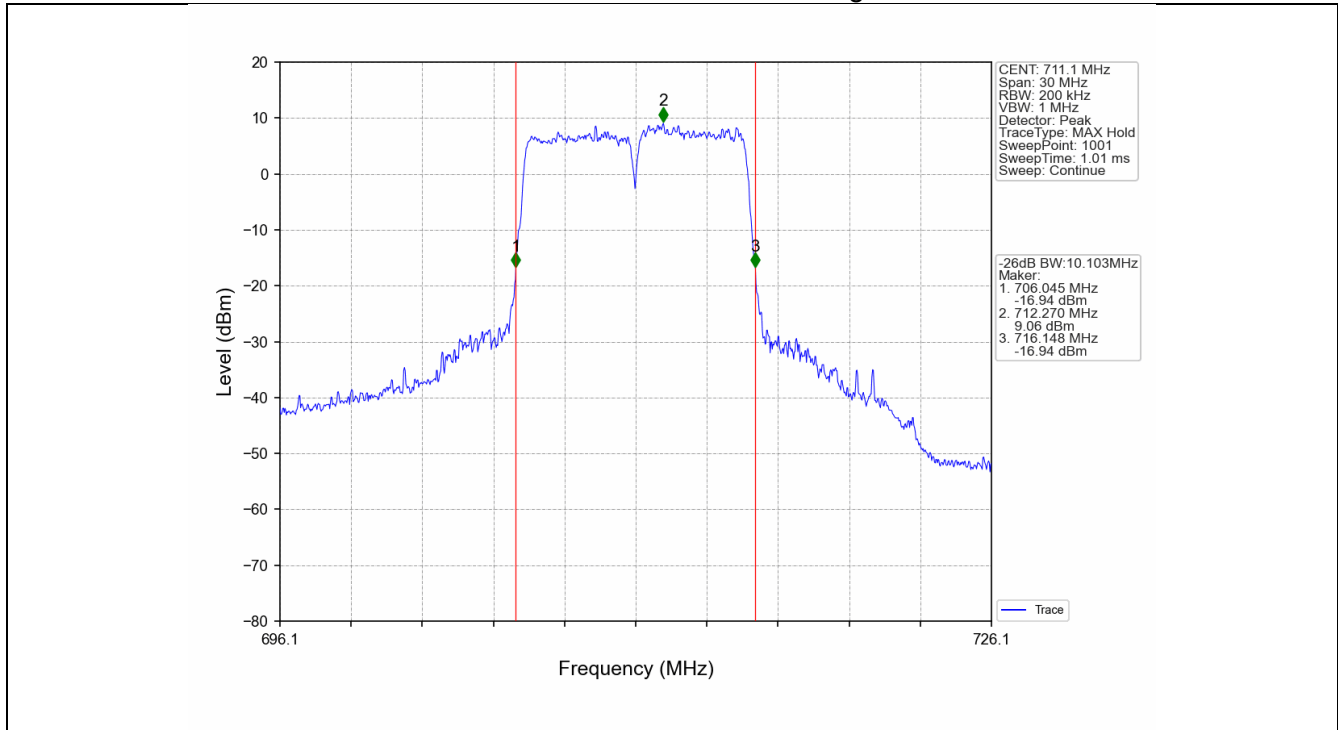
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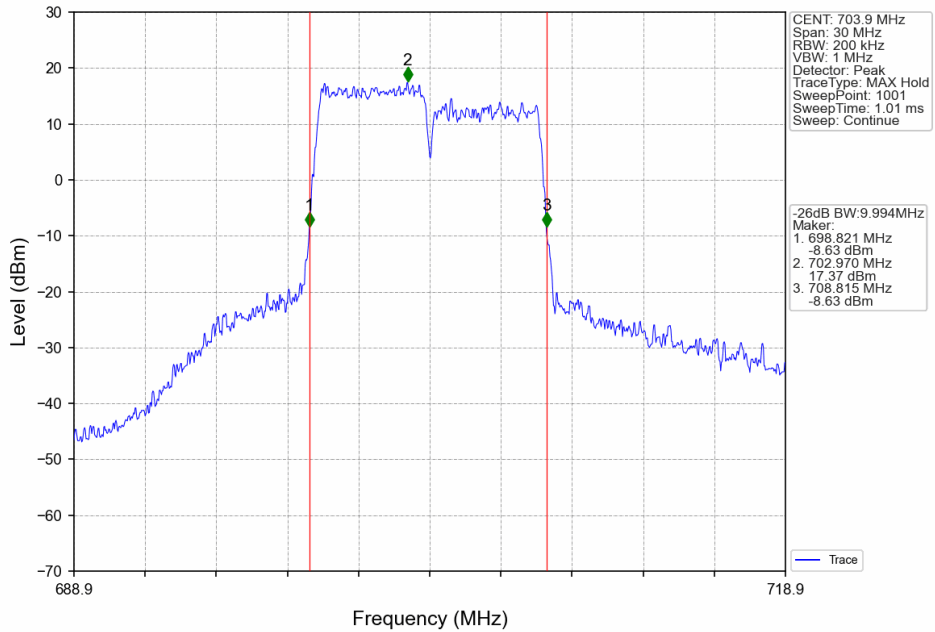
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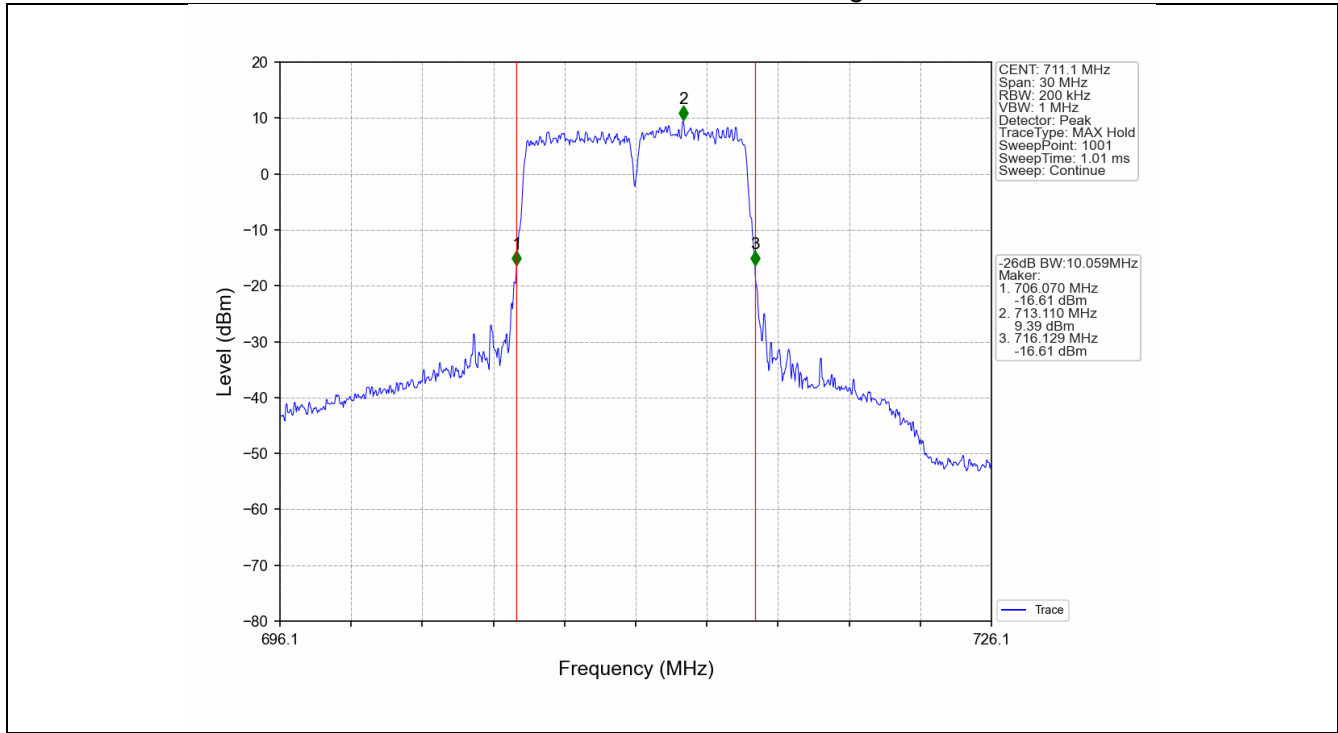
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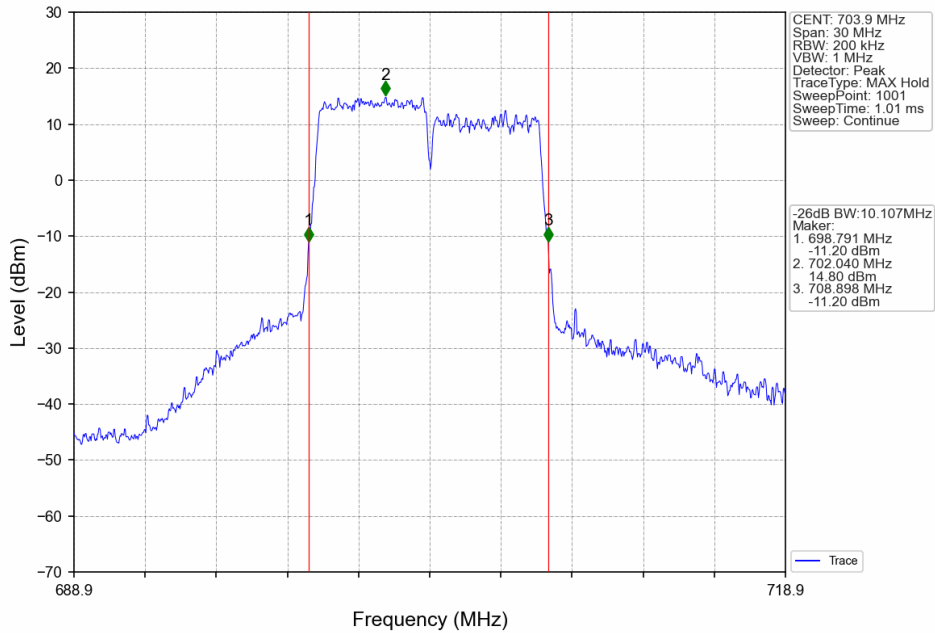
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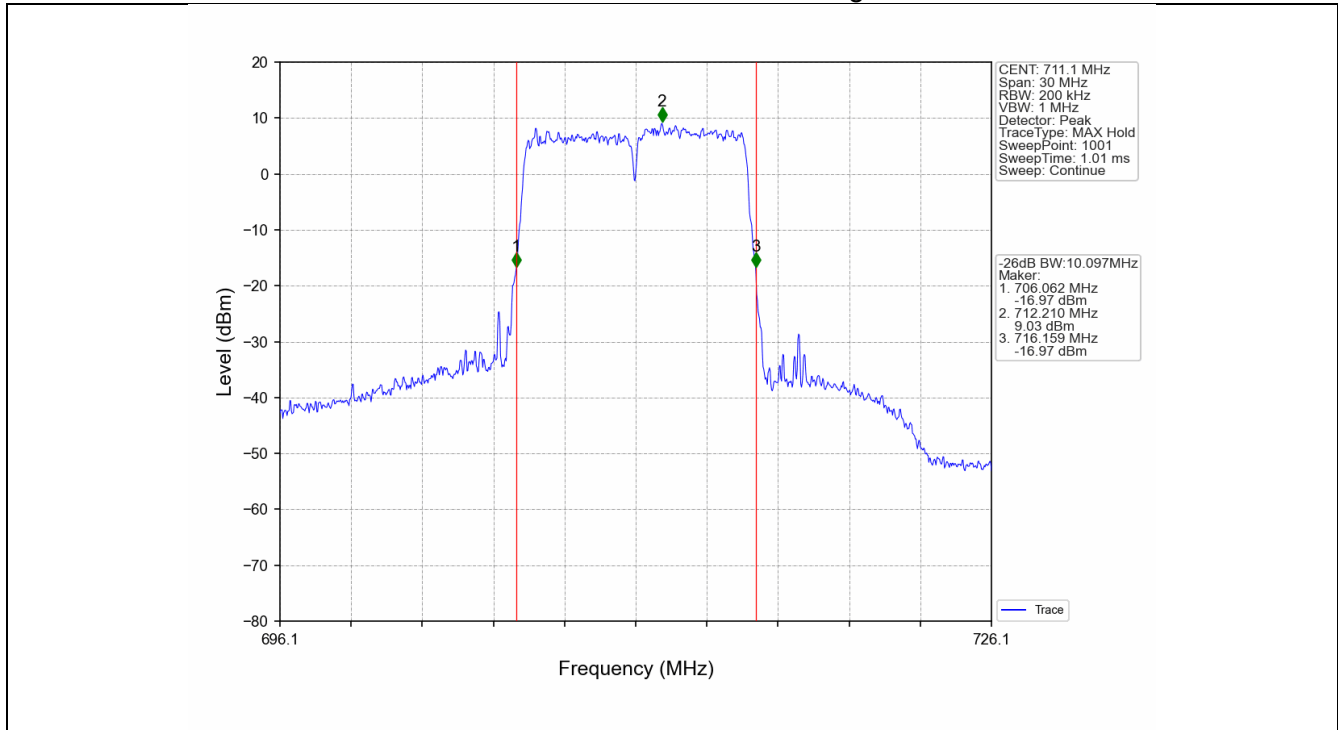


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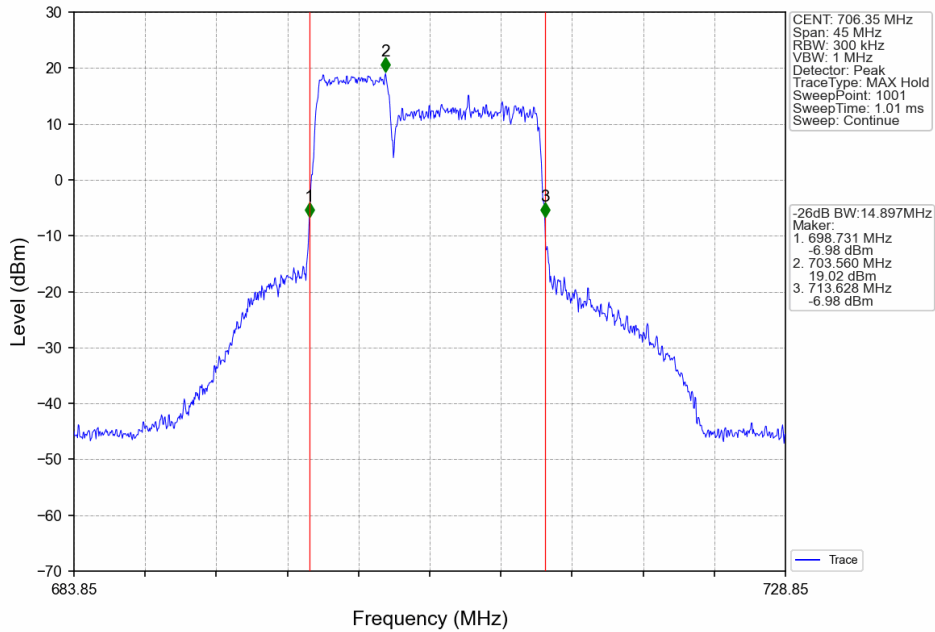


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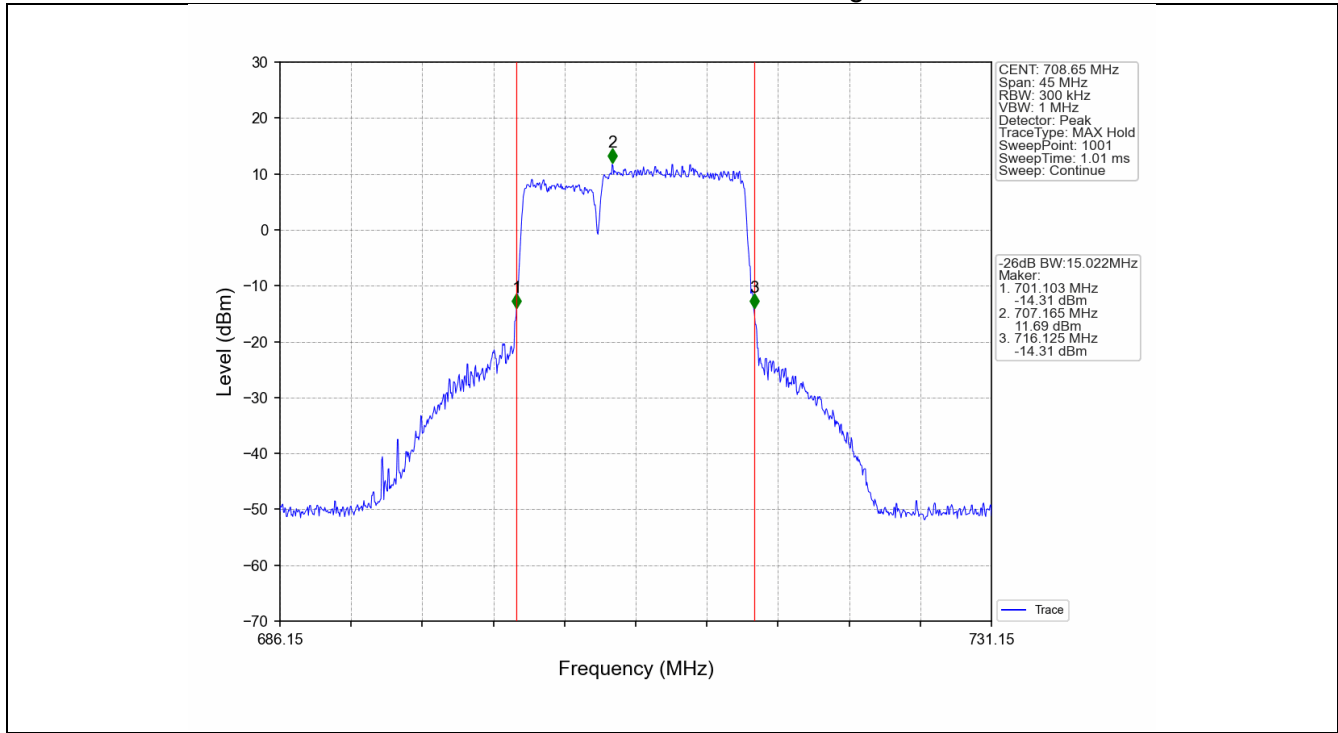
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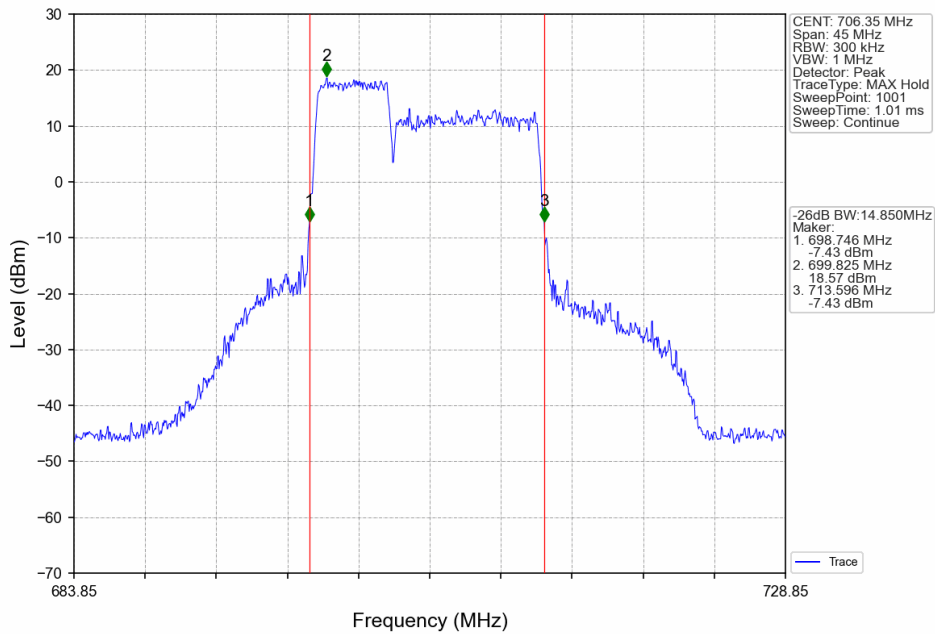
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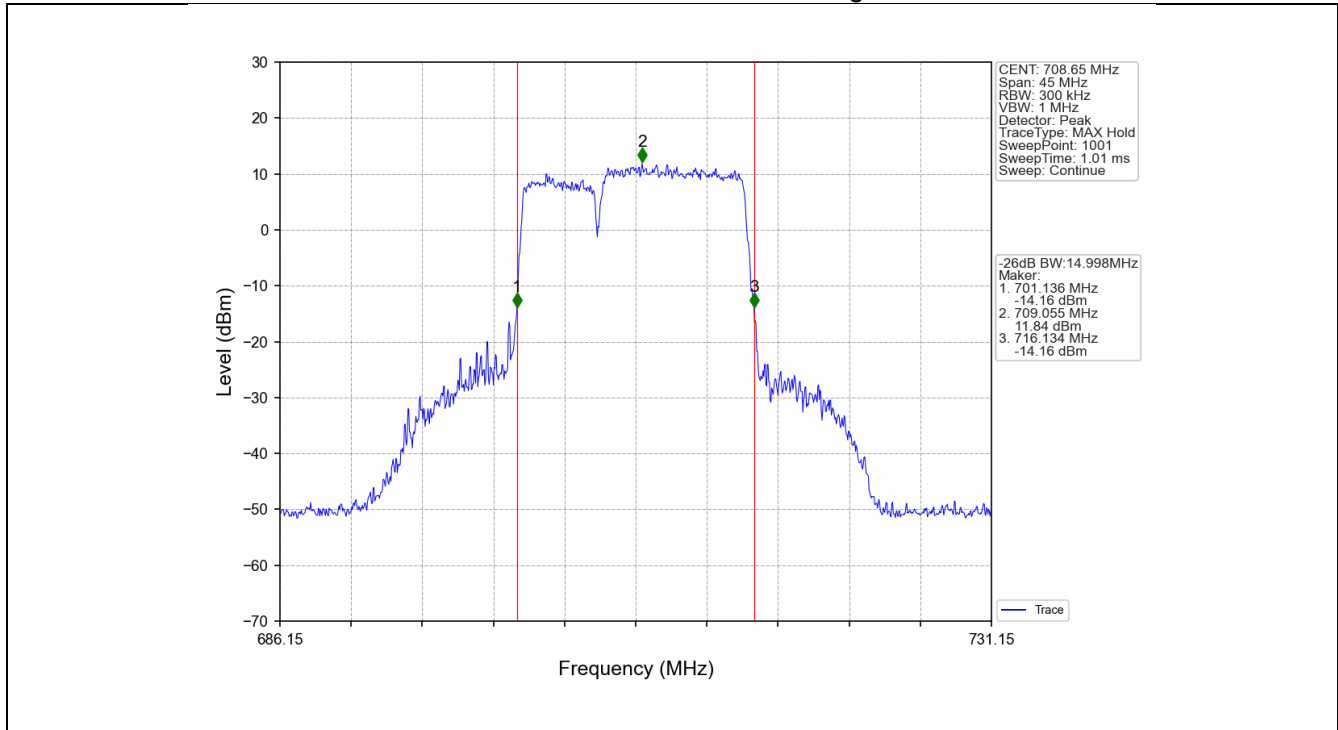
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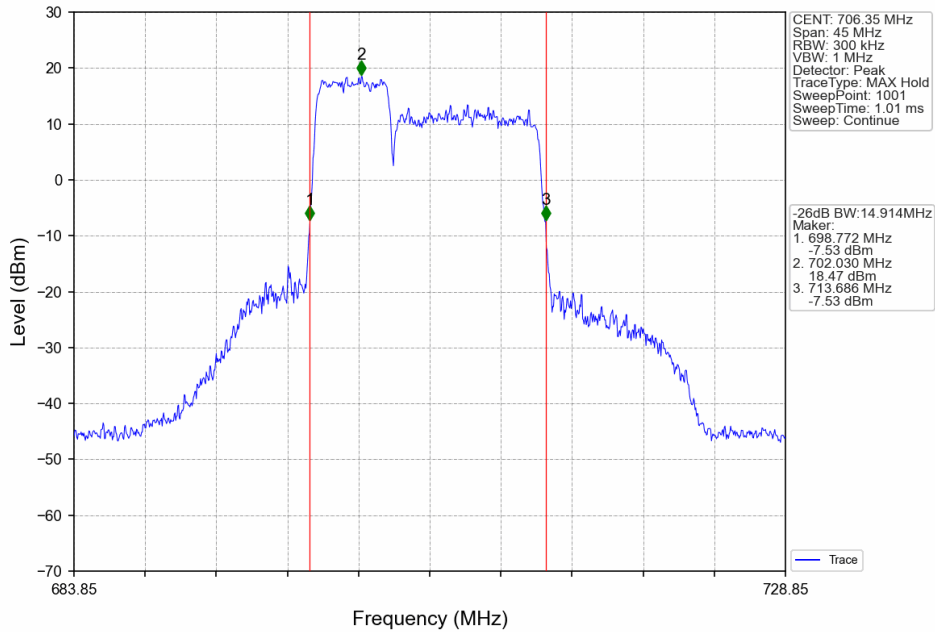
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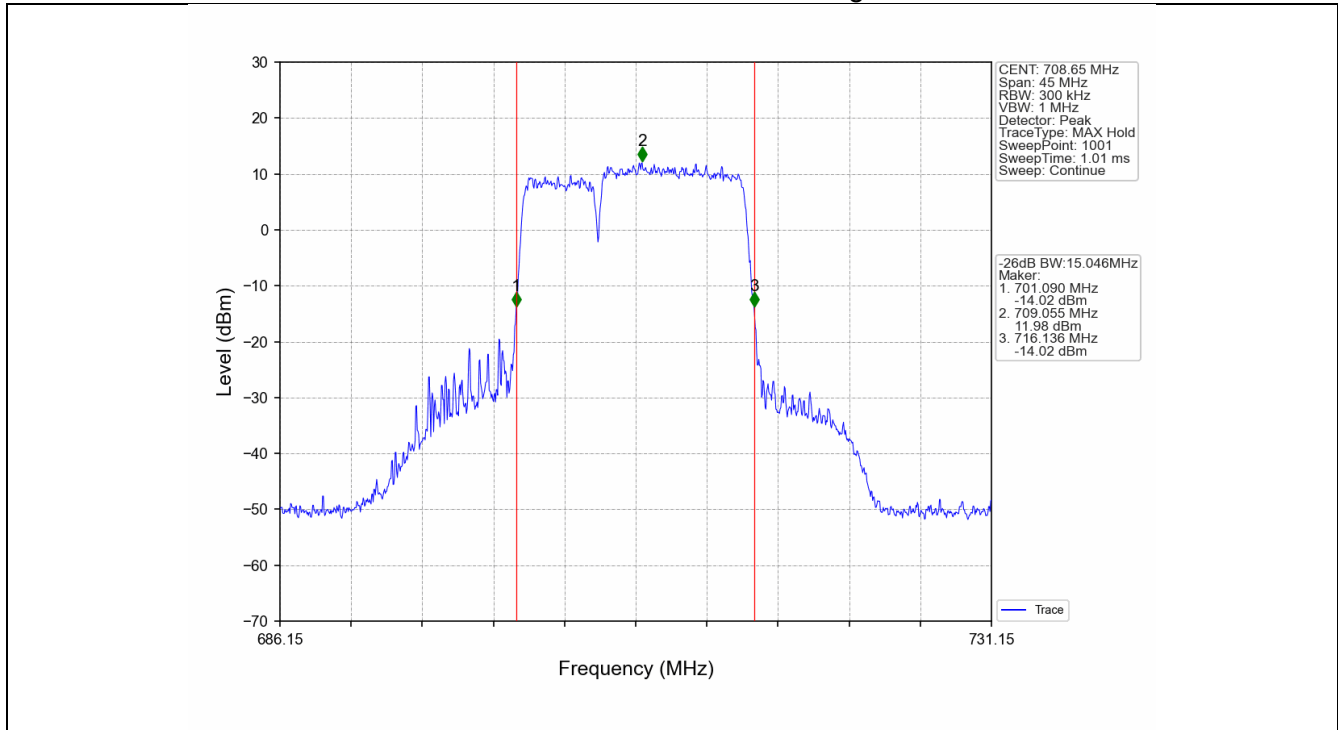
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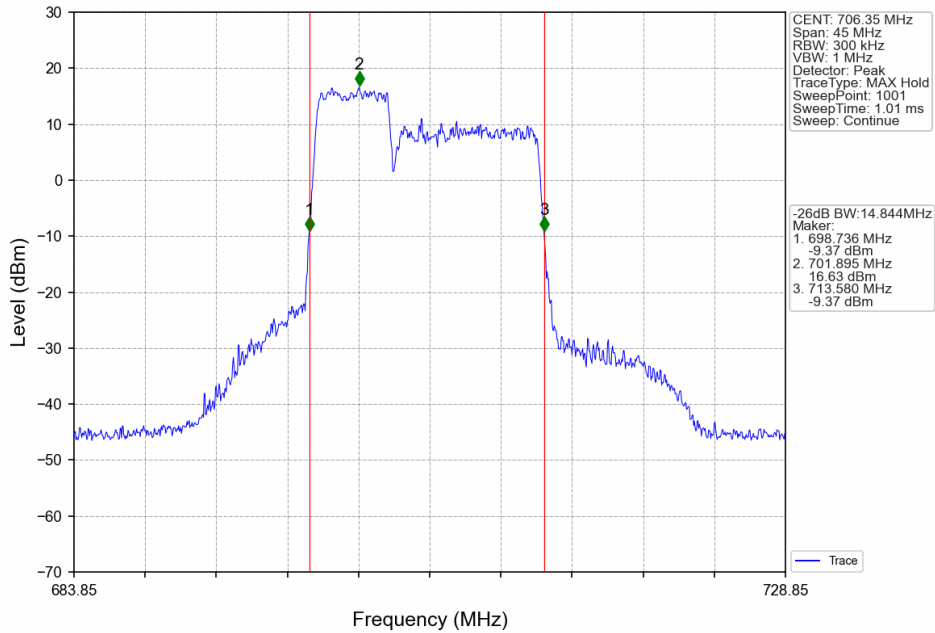
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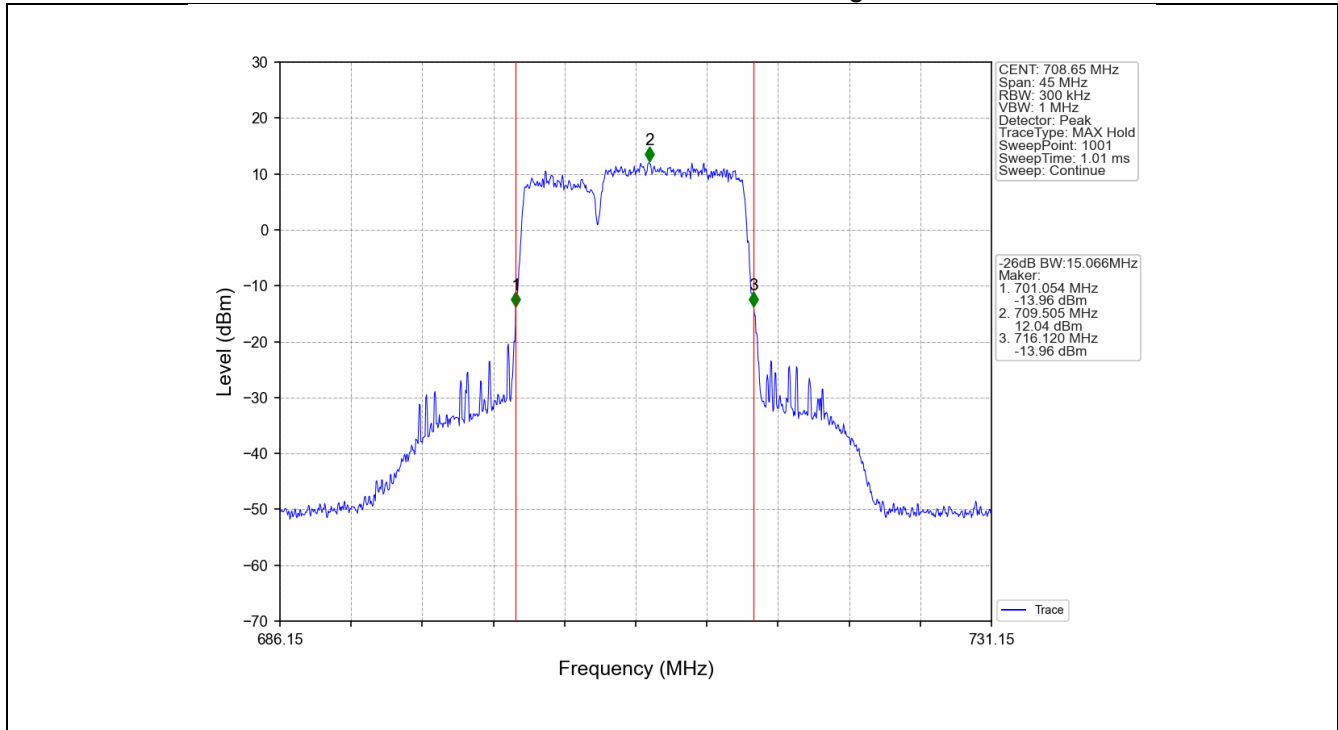
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3. Spurious Emission & Band Edge

3.1 CA_12B_NTNV

3.1.1 Test Result

Band: CA_12B / NTN								
BW (MHz)	Modulation	Frequency (MHz)	RB Allocation	Spurious Emission				Verdict
				CC1	CC2	Sum	Limit	
CC1:5 CC2:5	CC1: QPSK CC2: QPSK	CC1:701.5 CC2:706.3	CC1: 1@0	Refer To Test Graph				Pass
			CC2: 1@0					
		CC1:708.7 CC2:713.5	CC1: 25@0	Refer To Test Graph				Pass
			CC2: 25@0					
			CC1: 1@0	Refer To Test Graph				Pass
			CC2: 1@0					
CC1:5 CC2:10	CC1: QPSK CC2: QPSK	CC1:701.5 CC2:708.7	CC1: 1@24	Refer To Test Graph				Pass
			CC2: 1@24					
		CC1:703.8 CC2:711	CC1: 25@0	Refer To Test Graph				Pass
			CC2: 25@0					
			CC1: 1@0	Refer To Test Graph				Pass
			CC2: 1@0					
			CC1: 1@24	Refer To Test Graph				Pass
			CC2: 1@49					
			CC1: 25@0	Refer To Test Graph				Pass
			CC2: 50@0					

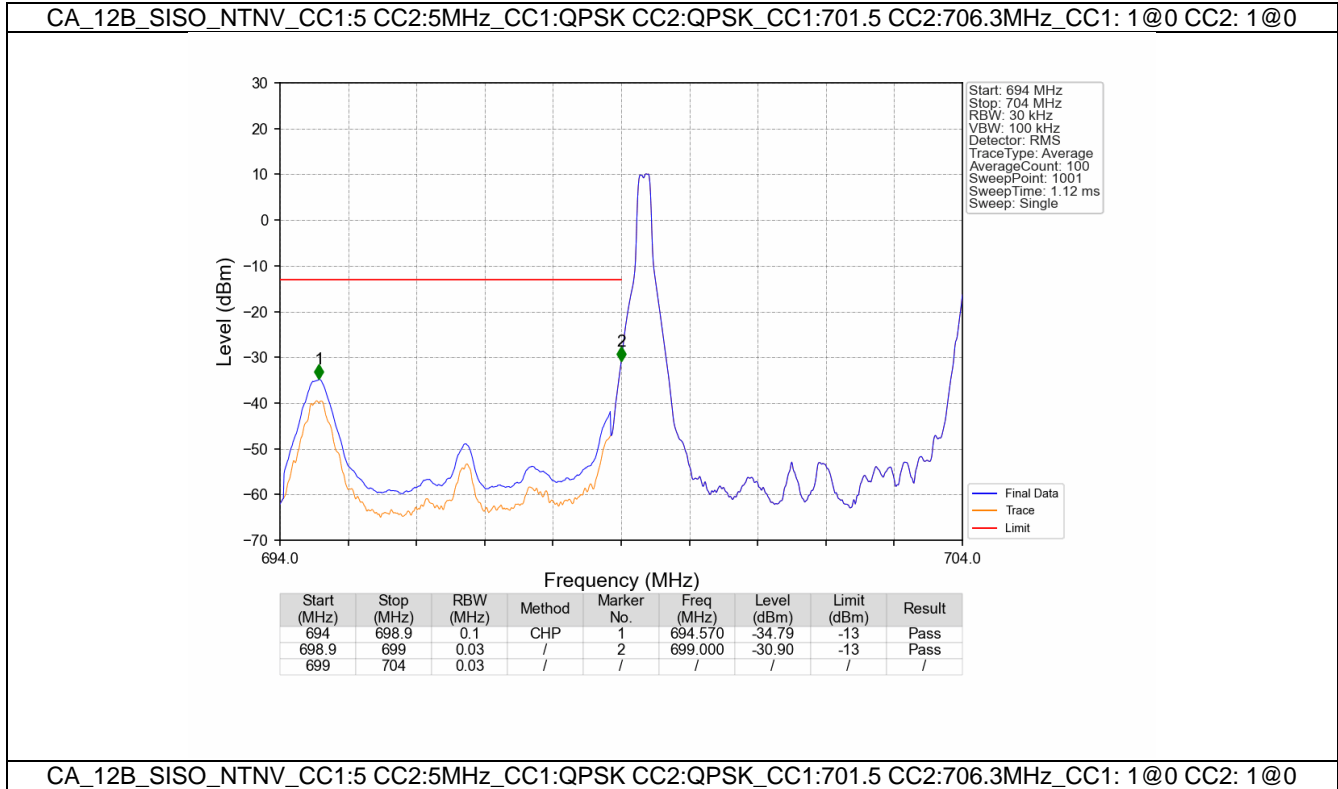


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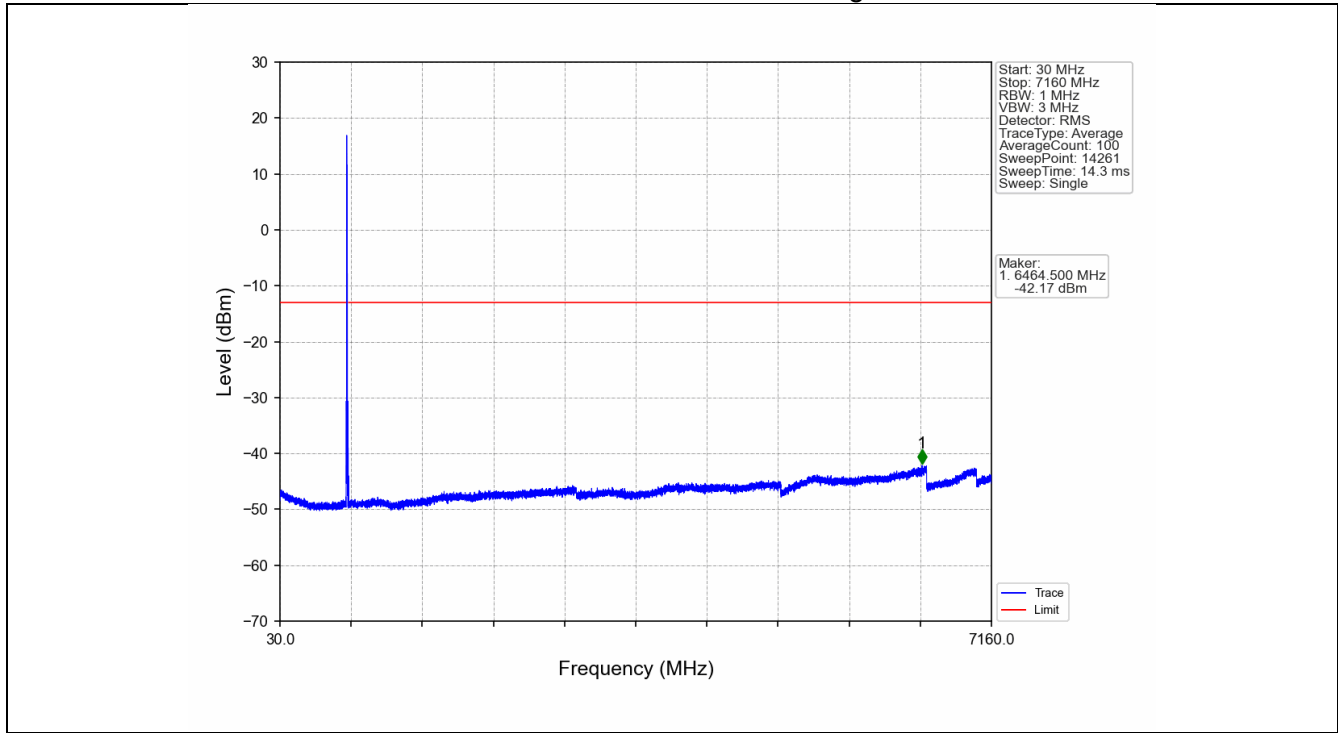
3.1.2 Test Graph



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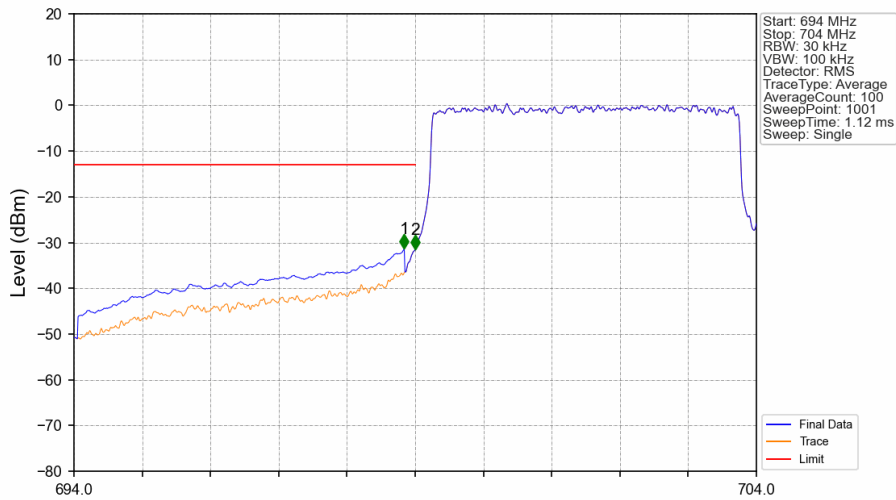
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CA_12B_SISO_NTNV_CC1:5 CC2:5MHz_CC1:QPSK CC2:QPSK_CC1:701.5 CC2:706.3MHz_CC1: 25@0 CC2: 25@0



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	698.9	0.1	CHP	1	698.840	-31.40	-13	Pass
698.9	699	0.03	/	2	699.000	-31.46	-13	Pass
699	704	0.03	/	/	/	/	/	/

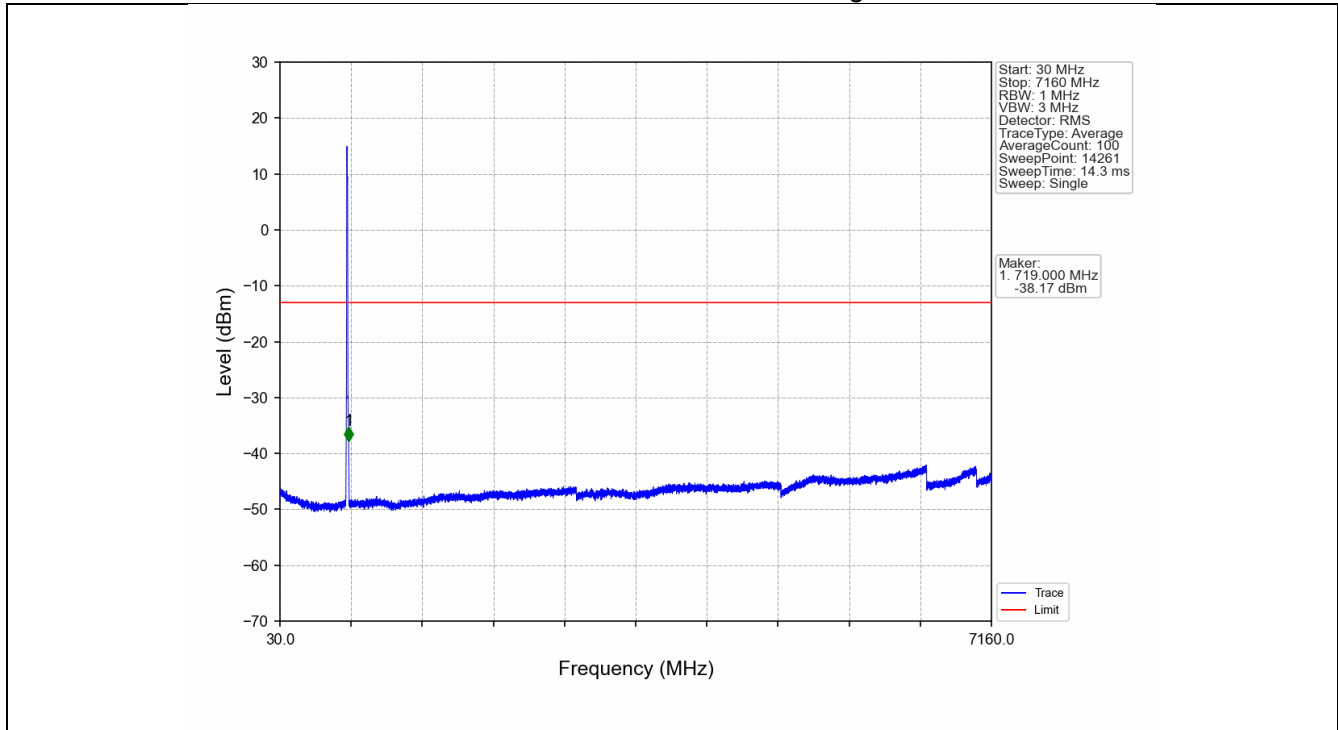
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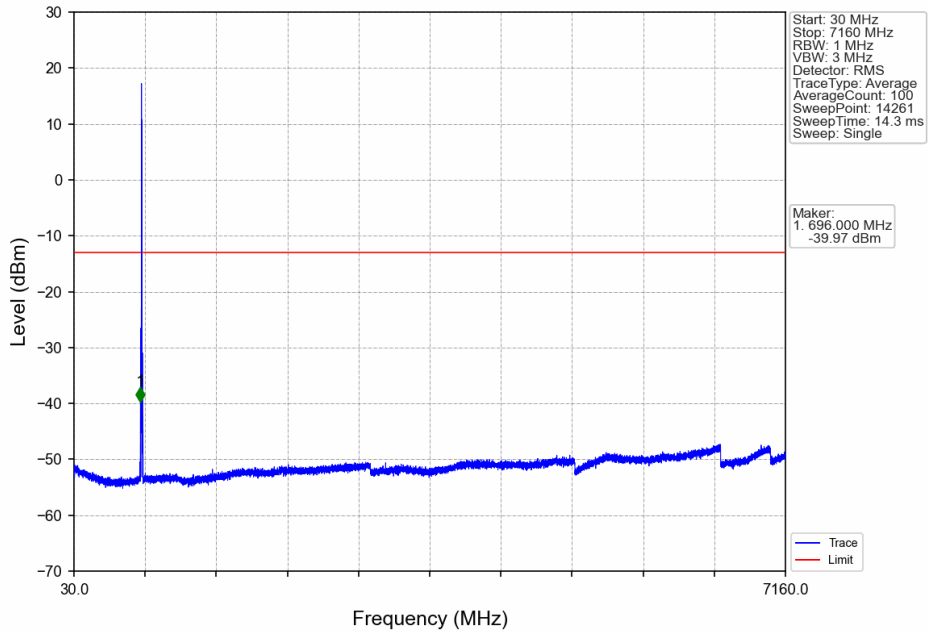
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CA_12B_SISO_NTNV_CC1:5 CC2:5MHz_CC1:QPSK CC2:QPSK_CC1:708.7 CC2:713.5MHz_CC1: 1@0 CC2: 1@0



CA_12B_SISO_NTNV_CC1:5 CC2:5MHz_CC1:QPSK CC2:QPSK_CC1:708.7 CC2:713.5MHz_CC1: 1@24 CC2: 1@24

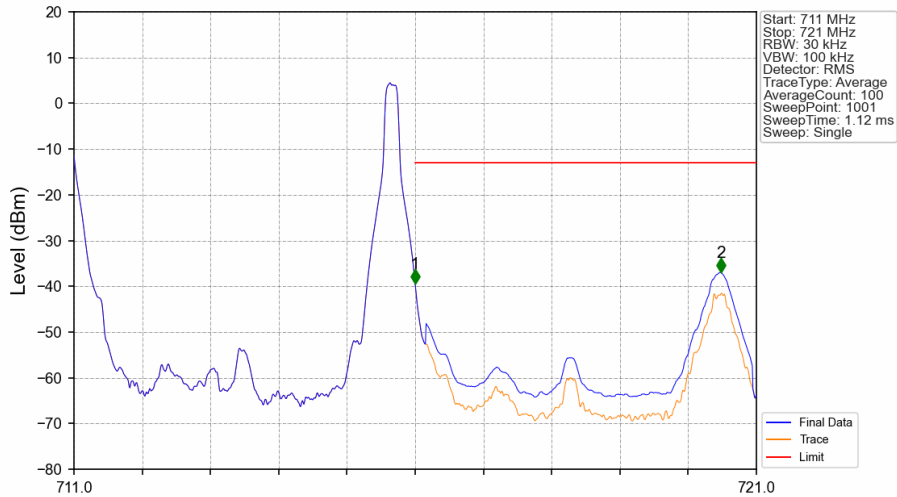


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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.000	-39.45	-13	Pass
716.1	721	0.1	CHP	2	720.480	-36.94	-13	Pass



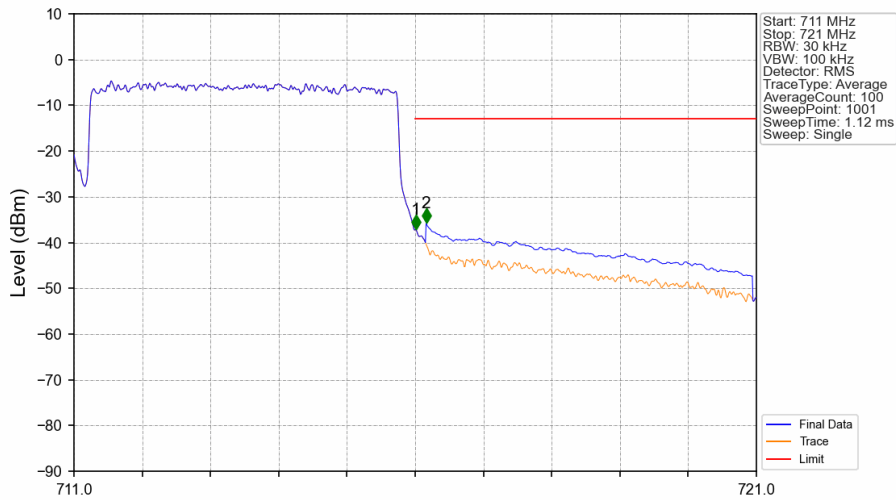
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CA_12B_SISO_NTNV_CC1:5 CC2:5MHz_CC1:QPSK CC2:QPSK_CC1:708.7 CC2:713.5MHz_CC1: 25@0 CC2: 25@0



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	-37.16	-13	Pass
716.1	721	0.1	CHP	2	716.160	-35.75	-13	Pass

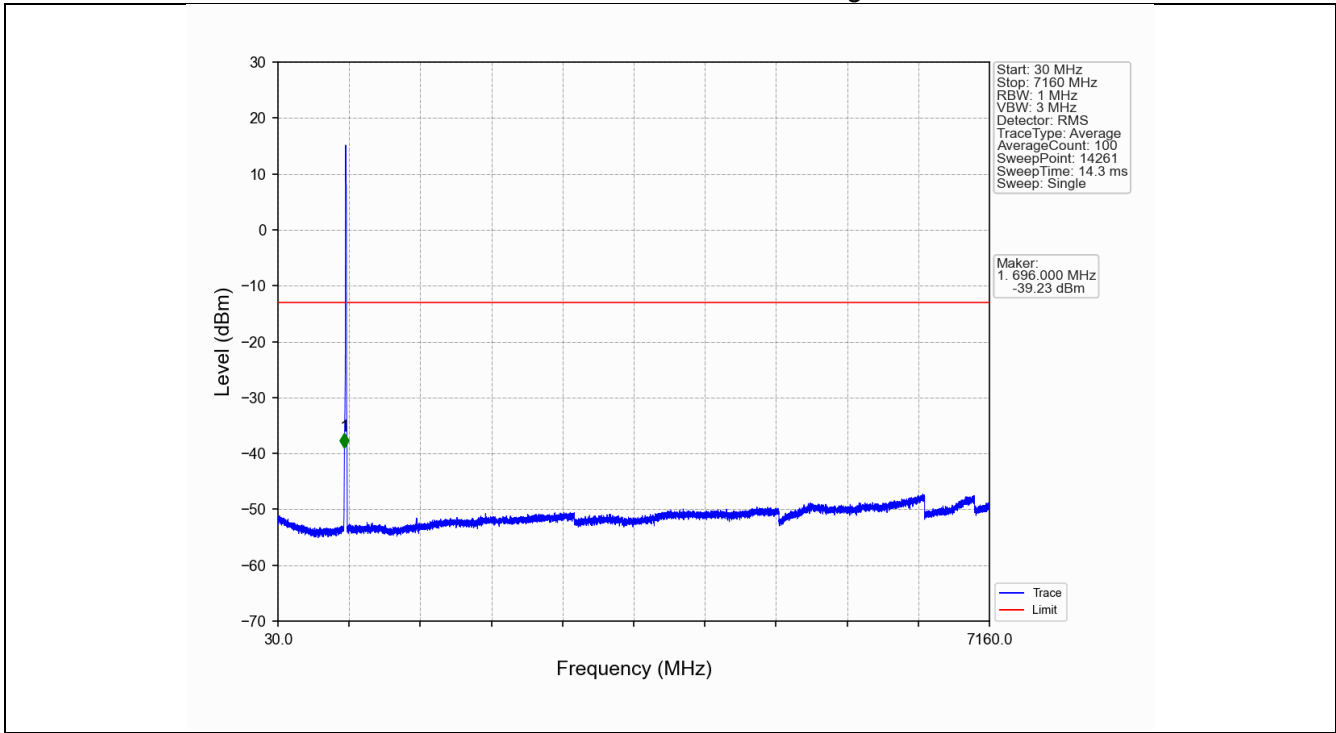
CA_12B_SISO_NTNV_CC1:5 CC2:5MHz_CC1:QPSK CC2:QPSK_CC1:708.7 CC2:713.5MHz_CC1: 25@0 CC2: 25@0



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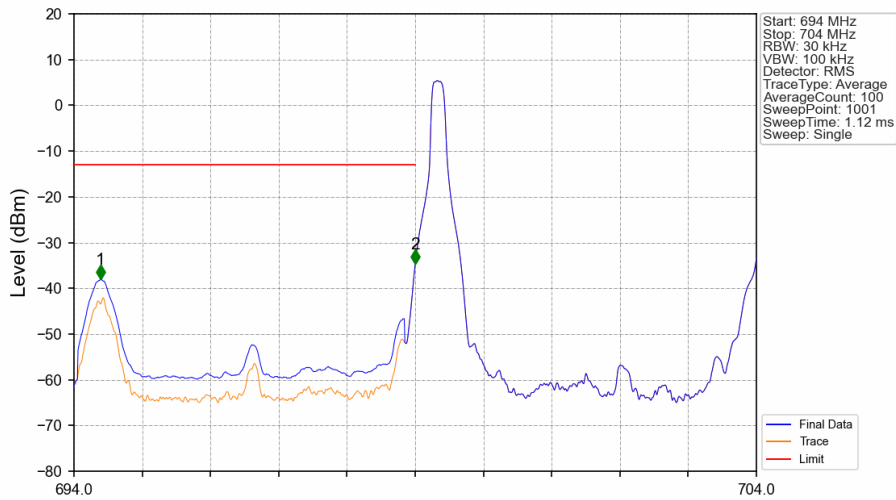
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CA_12B_SISO_NTNV_CC1:5 CC2:10MHz_CC1:QPSK CC2:QPSK_CC1:701.5 CC2:708.7MHz_CC1: 1@0 CC2: 1@0



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	698.9	0.1	CHP	1	694.390	-38.09	-13	Pass
698.9	699	0.03	/	2	699.000	-34.68	-13	Pass
699	704	0.03	/	/	/	/	/	/

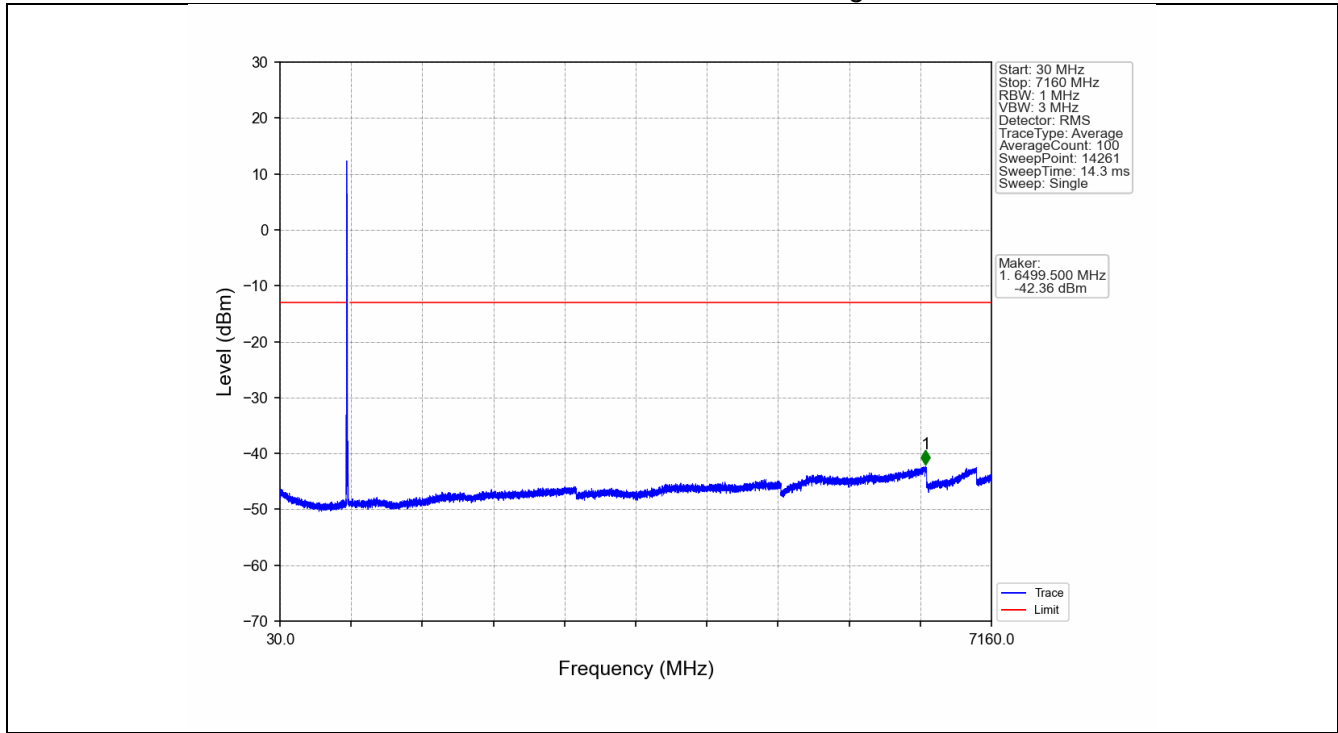
CA_12B_SISO_NTNV_CC1:5 CC2:10MHz_CC1:QPSK CC2:QPSK_CC1:701.5 CC2:708.7MHz_CC1: 1@0 CC2: 1@0



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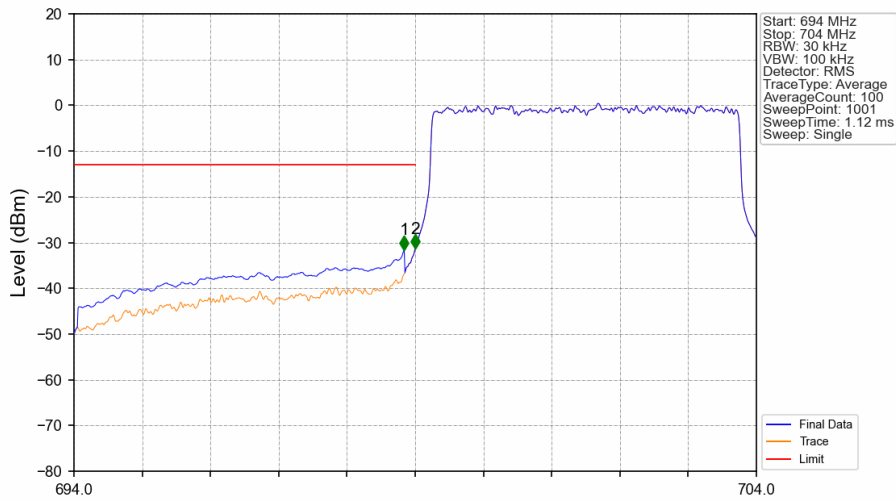
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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	698.9	0.1	CHP	1	698.840	-31.60	-13	Pass
698.9	699	0.03	/	2	699.000	-31.30	-13	Pass
699	704	0.03	/	/	/	/	/	/

CA_12B_SISO_NTNV_CC1:5 CC2:10MHz_CC1:QPSK CC2:QPSK_CC1:701.5 CC2:708.7MHz_CC1: 25@0 CC2: 50@0

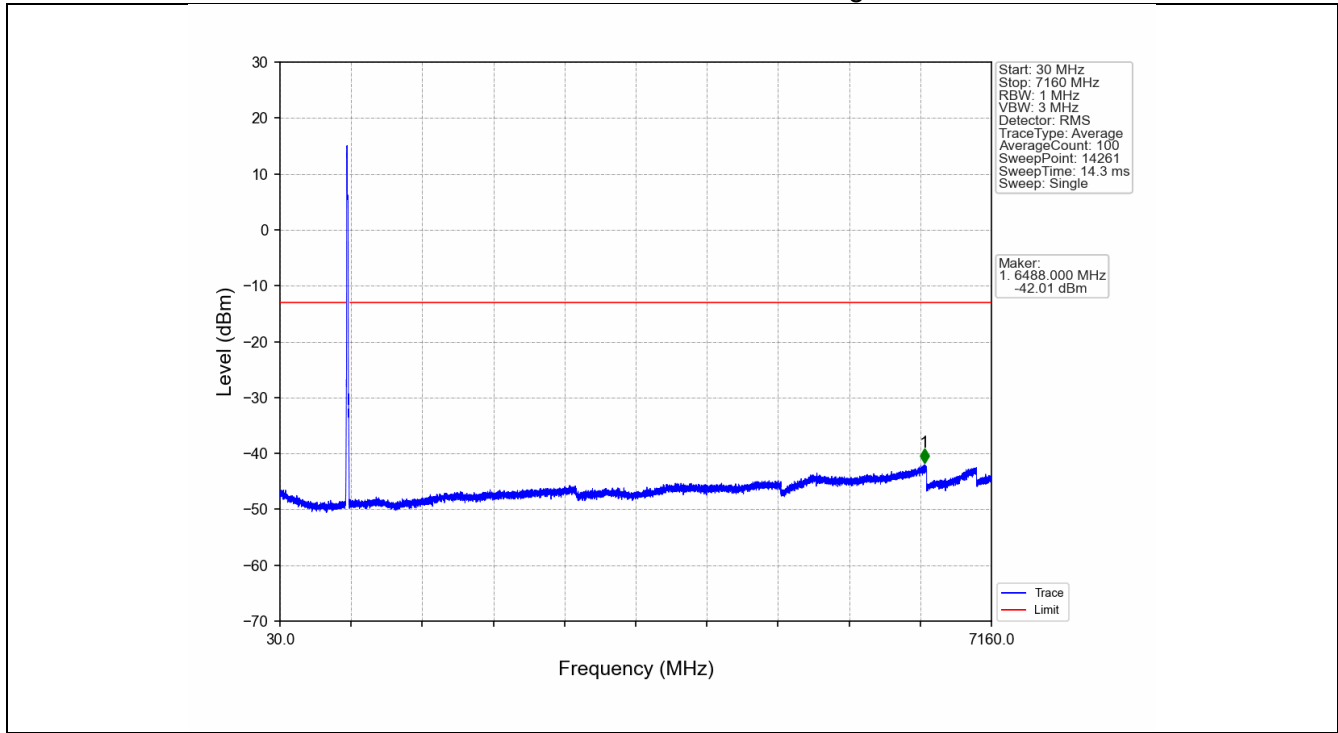


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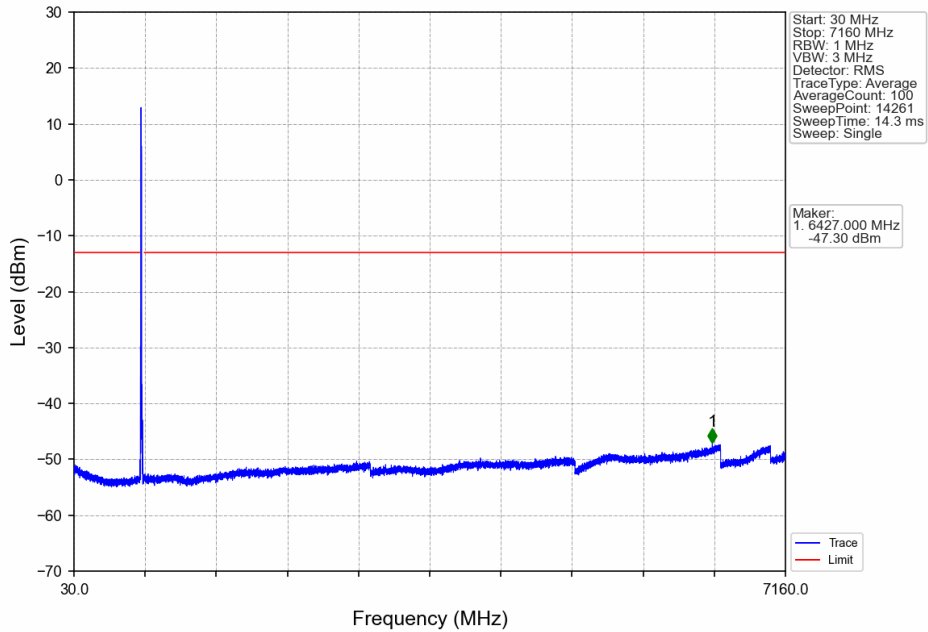
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CA_12B_SISO_NTNV_CC1:5 CC2:10MHz_CC1:QPSK CC2:QPSK_CC1:703.8 CC2:711MHz_CC1: 1@24 CC2: 1@49

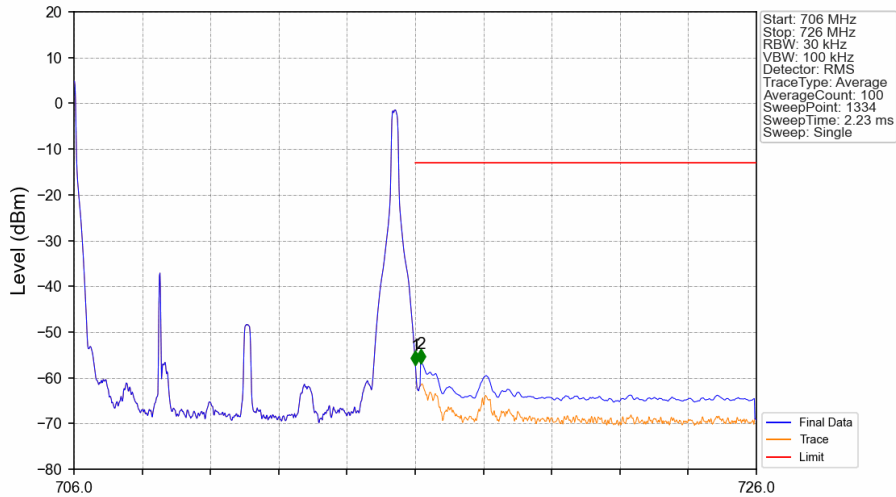


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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.008	-57.29	-13	Pass
716.1	726	0.1	CHP	2	716.173	-56.84	-13	Pass



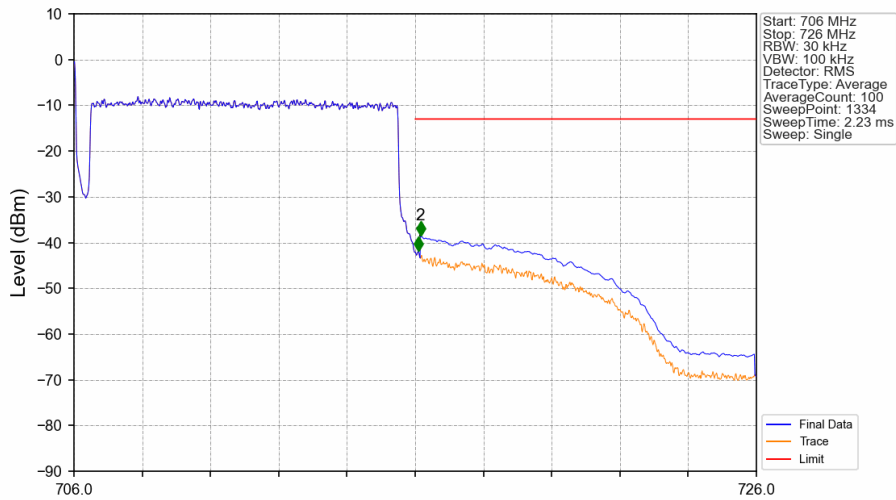
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CA_12B_SISO_NTNV_CC1:5 CC2:10MHz_CC1:QPSK CC2:QPSK_CC1:703.8 CC2:711MHz_CC1: 25@0 CC2: 50@0



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	716.098	-41.91	-13	Pass
716.1	726	0.1	CHP	2	716.158	-38.42	-13	Pass

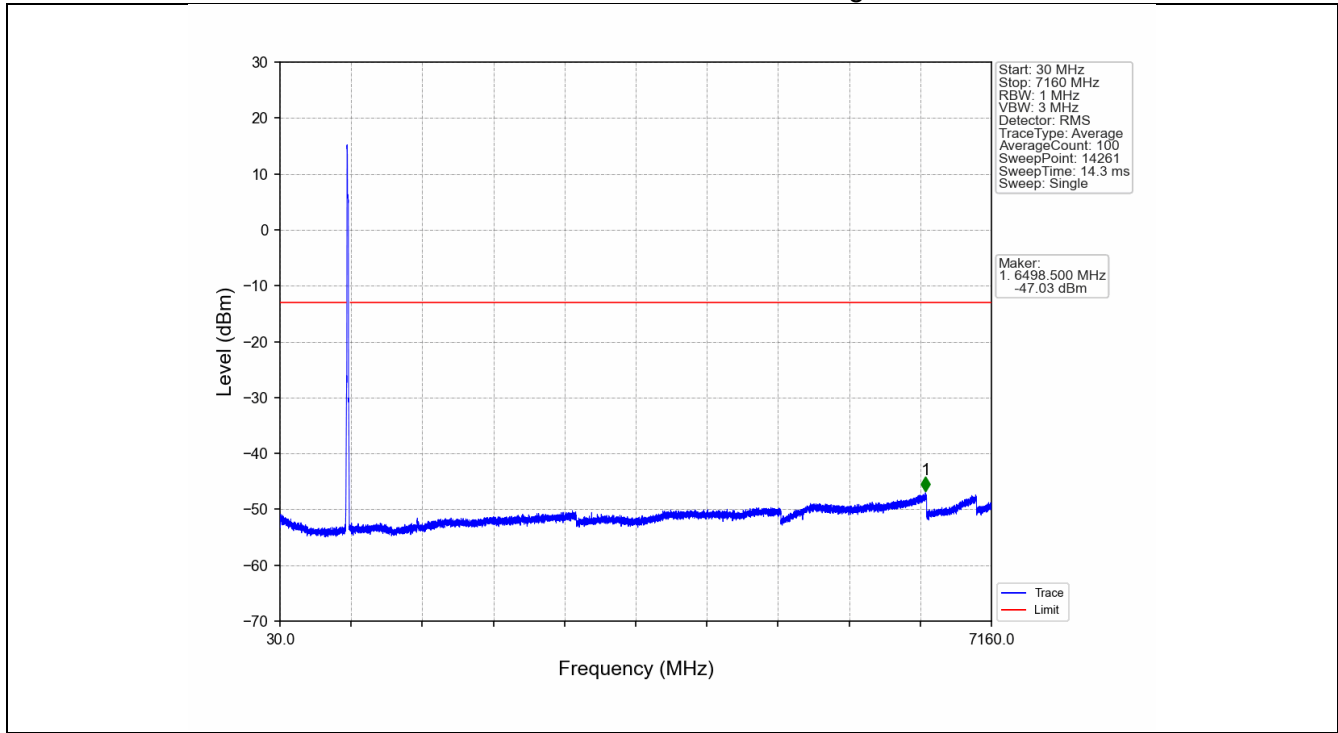
CA_12B_SISO_NTNV_CC1:5 CC2:10MHz_CC1:QPSK CC2:QPSK_CC1:703.8 CC2:711MHz_CC1: 25@0 CC2: 50@0



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4. Field Strength of Spurious Radiation
Test Band = LTE Band12B_ TM1
Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1314.2857	47.43	-48.11	25.16	-70.78	-13.00	57.78	Horizontal
2	1830.2857	46.47	-47.98	25.69	-71.08	-13.00	58.08	Horizontal
3	2561.1429	46.58	-47.06	27.31	-68.43	-13.00	55.43	Horizontal
4	3055.4286	46.19	-46.65	28.16	-67.56	-13.00	54.56	Horizontal
5	4423.4286	45.22	-45.82	30.42	-65.45	-13.00	52.45	Horizontal
6	6157.1429	44.81	-44.80	32.93	-62.32	-13.00	49.32	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1404	46.92	-48.01	25.20	-71.15	-13.00	58.15	Vertical
2	1922.8571	47.12	-48.02	25.97	-70.19	-13.00	57.19	Vertical
3	2512.5714	46.25	-47.23	27.22	-69.01	-13.00	56.01	Vertical
4	2983.4286	45.60	-46.53	28.07	-68.12	-13.00	55.12	Vertical
5	4183.4286	43.99	-45.95	29.84	-67.38	-13.00	54.38	Vertical
6	5970.2857	44.90	-44.59	32.39	-62.56	-13.00	49.56	Vertical



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Test Band = LTE Band12B_ TM1
Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1447.4286	46.60	-48.15	25.25	-71.56	-13.00	58.56	Horizontal
2	2358.2857	46.61	-47.47	26.92	-69.20	-13.00	56.20	Horizontal
3	3126.2857	46.01	-46.63	28.23	-67.65	-13.00	54.65	Horizontal
4	4474.8571	44.74	-45.67	30.54	-65.65	-13.00	52.65	Horizontal
5	6011.4286	44.63	-44.46	32.44	-62.65	-13.00	49.65	Horizontal
6	7232	44.43	-43.74	35.65	-58.92	-13.00	45.92	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1393.1429	46.58	-48.01	25.20	-71.49	-13.00	58.49	Vertical
2	2075.4286	46.56	-47.76	26.35	-70.11	-13.00	57.11	Vertical
3	2916	45.75	-46.56	27.95	-68.12	-13.00	55.12	Vertical
4	3597.7143	45.39	-46.34	28.76	-67.46	-13.00	54.46	Vertical
5	4900.5714	44.70	-45.58	31.24	-64.90	-13.00	51.90	Vertical
6	6592.5714	43.89	-44.50	34.27	-61.61	-13.00	48.61	Vertical



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Test Band = LTE Band12B_ TM1
Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1406.2857	47.10	-48.02	25.21	-70.97	-13.00	57.97	Horizontal
2	2201.1429	46.57	-47.68	26.60	-69.77	-13.00	56.77	Horizontal
3	3046.2857	45.88	-46.63	28.15	-67.86	-13.00	54.86	Horizontal
4	3958.2857	45.40	-46.21	29.33	-66.74	-13.00	53.74	Horizontal
5	5415.4286	45.88	-45.00	32.15	-62.23	-13.00	49.23	Horizontal
6	6776	44.57	-44.11	34.60	-60.20	-13.00	47.20	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1388	46.77	-48.02	25.19	-71.31	-13.00	58.31	Vertical
2	1922.2857	46.58	-48.02	25.97	-70.73	-13.00	57.73	Vertical
3	2703.4286	46.69	-47.05	27.57	-68.05	-13.00	55.05	Vertical
4	3514.8571	45.63	-46.51	28.62	-67.52	-13.00	54.52	Vertical
5	4444	44.98	-45.76	30.47	-65.58	-13.00	52.58	Vertical
6	6700.5714	44.26	-44.06	34.46	-60.60	-13.00	47.60	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

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

---End of Attachment---



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