



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

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Appendix B.16

LTE Band 41



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SGS-CSTC Standards Technical Services Co., Ltd.
 Shenzhen Branch, Dimensionless Laboratory

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1. Effective (Isotropic) Radiated Power Output Data

Ant0

1.1 B41_5MHz_EIRP

1.1.1 Test Result

Band: 41 / Bandwidth: 5MHz / NTNv										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	2498.5	1	0	24.96	0.10	25.06	<=33.01	Pass		
			13	24.89	0.10	24.99	<=33.01	Pass		
			24	24.81	0.10	24.91	<=33.01	Pass		
		12	0	24.34	0.10	24.44	<=33.01	Pass		
			6	24.29	0.10	24.39	<=33.01	Pass		
			13	24.30	0.10	24.40	<=33.01	Pass		
		25	0	24.33	0.10	24.43	<=33.01	Pass		
		2593	1	0	24.52	0.10	24.62	<=33.01	Pass	
				13	24.76	0.10	24.86	<=33.01	Pass	
	24			24.63	0.10	24.73	<=33.01	Pass		
	12		0	24.22	0.10	24.32	<=33.01	Pass		
			6	24.04	0.10	24.14	<=33.01	Pass		
			13	24.07	0.10	24.17	<=33.01	Pass		
	25		0	24.27	0.10	24.37	<=33.01	Pass		
	2687.5		1	0	24.77	0.10	24.87	<=33.01	Pass	
				13	24.63	0.10	24.73	<=33.01	Pass	
		24		24.68	0.10	24.78	<=33.01	Pass		
		12	0	24.26	0.10	24.36	<=33.01	Pass		
			6	24.24	0.10	24.34	<=33.01	Pass		
			13	24.11	0.10	24.21	<=33.01	Pass		
		25	0	24.14	0.10	24.24	<=33.01	Pass		
		16QAM	2498.5	1	0	24.49	0.10	24.59	<=33.01	Pass
					13	24.45	0.10	24.55	<=33.01	Pass
	24				24.36	0.10	24.46	<=33.01	Pass	
12	0			22.84	0.10	22.94	<=33.01	Pass		
	6			22.78	0.10	22.88	<=33.01	Pass		
	13			22.80	0.10	22.90	<=33.01	Pass		
25	0			22.72	0.10	22.82	<=33.01	Pass		
2593	1			0	24.29	0.10	24.39	<=33.01	Pass	
				13	24.42	0.10	24.52	<=33.01	Pass	
			24	24.18	0.10	24.28	<=33.01	Pass		
	12		0	22.80	0.10	22.90	<=33.01	Pass		
			6	22.78	0.10	22.88	<=33.01	Pass		
			13	22.64	0.10	22.74	<=33.01	Pass		
25	0		22.61	0.10	22.71	<=33.01	Pass			
2687.5	1		0	24.30	0.10	24.40	<=33.01	Pass		



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64QAM		13	24.26	0.10	24.36	<=33.01	Pass		
			24	24.23	0.10	24.33	<=33.01	Pass	
		12	0	22.76	0.10	22.86	<=33.01	Pass	
			6	22.67	0.10	22.77	<=33.01	Pass	
			13	22.71	0.10	22.81	<=33.01	Pass	
	25	0	22.64	0.10	22.74	<=33.01	Pass		
	2498.5	1	0	23.77	0.10	23.87	<=33.01	Pass	
			13	23.86	0.10	23.96	<=33.01	Pass	
			24	24.09	0.10	24.19	<=33.01	Pass	
		12	0	22.82	0.10	22.92	<=33.01	Pass	
			6	22.65	0.10	22.75	<=33.01	Pass	
			13	22.80	0.10	22.90	<=33.01	Pass	
		25	0	22.70	0.10	22.80	<=33.01	Pass	
		2593	1	0	24.24	0.10	24.34	<=33.01	Pass
				13	23.70	0.10	23.80	<=33.01	Pass
24				24.02	0.10	24.12	<=33.01	Pass	
12			0	22.56	0.10	22.66	<=33.01	Pass	
			6	22.56	0.10	22.66	<=33.01	Pass	
			13	22.78	0.10	22.88	<=33.01	Pass	
25			0	22.72	0.10	22.82	<=33.01	Pass	
2687.5			1	0	23.90	0.10	24.00	<=33.01	Pass
	13			23.70	0.10	23.80	<=33.01	Pass	
	24			23.77	0.10	23.87	<=33.01	Pass	
	12		0	22.82	0.10	22.92	<=33.01	Pass	
			6	22.78	0.10	22.88	<=33.01	Pass	
			13	22.76	0.10	22.86	<=33.01	Pass	
	25		0	22.63	0.10	22.73	<=33.01	Pass	



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1.2 B41_10MHz_EIRP

1.2.1 Test Result

Band: 41 / Bandwidth: 10MHz / NTN										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	2501	1	0	24.99	0.10	25.09	<=33.01	Pass		
			25	24.76	0.10	24.86	<=33.01	Pass		
			49	24.86	0.10	24.96	<=33.01	Pass		
		25	0	24.25	0.10	24.35	<=33.01	Pass		
			13	24.36	0.10	24.46	<=33.01	Pass		
			25	24.32	0.10	24.42	<=33.01	Pass		
		50	0	24.39	0.10	24.49	<=33.01	Pass		
		2593	1	0	24.87	0.10	24.97	<=33.01	Pass	
				25	24.76	0.10	24.86	<=33.01	Pass	
	49			24.78	0.10	24.88	<=33.01	Pass		
	25		0	24.24	0.10	24.34	<=33.01	Pass		
			13	24.05	0.10	24.15	<=33.01	Pass		
			25	24.23	0.10	24.33	<=33.01	Pass		
	50		0	24.07	0.10	24.17	<=33.01	Pass		
	2685		1	0	24.80	0.10	24.90	<=33.01	Pass	
				25	24.74	0.10	24.84	<=33.01	Pass	
		49		24.59	0.10	24.69	<=33.01	Pass		
		25	0	24.27	0.10	24.37	<=33.01	Pass		
			13	24.23	0.10	24.33	<=33.01	Pass		
			25	24.21	0.10	24.31	<=33.01	Pass		
		50	0	24.11	0.10	24.21	<=33.01	Pass		
		16QAM	2501	1	0	24.46	0.10	24.56	<=33.01	Pass
					25	24.54	0.10	24.64	<=33.01	Pass
	49				24.64	0.10	24.74	<=33.01	Pass	
25	0			22.85	0.10	22.95	<=33.01	Pass		
	13			22.87	0.10	22.97	<=33.01	Pass		
	25			22.90	0.10	23.00	<=33.01	Pass		
50	0			22.88	0.10	22.98	<=33.01	Pass		
2593	1			0	24.15	0.10	24.25	<=33.01	Pass	
				25	24.06	0.10	24.16	<=33.01	Pass	
			49	24.15	0.10	24.25	<=33.01	Pass		
	25		0	22.61	0.10	22.71	<=33.01	Pass		
			13	22.57	0.10	22.67	<=33.01	Pass		
			25	22.59	0.10	22.69	<=33.01	Pass		
	50		0	22.56	0.10	22.66	<=33.01	Pass		
	2685		1	0	24.34	0.10	24.44	<=33.01	Pass	
				25	24.21	0.10	24.31	<=33.01	Pass	
49				24.06	0.10	24.16	<=33.01	Pass		
25			0	22.75	0.10	22.85	<=33.01	Pass		
			13	22.69	0.10	22.79	<=33.01	Pass		
			25	22.53	0.10	22.63	<=33.01	Pass		



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64QAM	2501	50	0	22.54	0.10	22.64	<=33.01	Pass	
			1	0	23.67	0.10	23.77	<=33.01	Pass
				25	24.14	0.10	24.24	<=33.01	Pass
		25	49	23.81	0.10	23.91	<=33.01	Pass	
			25	0	22.82	0.10	22.92	<=33.01	Pass
				13	22.85	0.10	22.95	<=33.01	Pass
		50	25	22.91	0.10	23.01	<=33.01	Pass	
			1	0	22.86	0.10	22.96	<=33.01	Pass
				0	24.04	0.10	24.14	<=33.01	Pass
	25	23.61		0.10	23.71	<=33.01	Pass		
	2593	1	49	23.90	0.10	24.00	<=33.01	Pass	
			25	0	22.60	0.10	22.70	<=33.01	Pass
				13	22.57	0.10	22.67	<=33.01	Pass
		25		22.58	0.10	22.68	<=33.01	Pass	
		50	0	22.54	0.10	22.64	<=33.01	Pass	
			1	0	23.68	0.10	23.78	<=33.01	Pass
				25	23.59	0.10	23.69	<=33.01	Pass
		49		23.61	0.10	23.71	<=33.01	Pass	
		2685	25	0	22.50	0.10	22.60	<=33.01	Pass
	13			22.64	0.10	22.74	<=33.01	Pass	
	25			22.70	0.10	22.80	<=33.01	Pass	
	50		25	22.70	0.10	22.80	<=33.01	Pass	
			0	22.54	0.10	22.64	<=33.01	Pass	
			0	22.54	0.10	22.64	<=33.01	Pass	



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1.3 B41_15MHz_EIRP

1.3.1 Test Result

Band: 41 / Bandwidth: 15MHz / NTN										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	2503.5	1	0	24.88	0.10	24.98	<=33.01	Pass		
			38	24.82	0.10	24.92	<=33.01	Pass		
			74	24.85	0.10	24.95	<=33.01	Pass		
		36	0	24.24	0.10	24.34	<=33.01	Pass		
			18	24.34	0.10	24.44	<=33.01	Pass		
			39	24.26	0.10	24.36	<=33.01	Pass		
		75	0	24.41	0.10	24.51	<=33.01	Pass		
		2593	1	0	24.68	0.10	24.78	<=33.01	Pass	
				38	24.69	0.10	24.79	<=33.01	Pass	
	74			24.76	0.10	24.86	<=33.01	Pass		
	36		0	24.28	0.10	24.38	<=33.01	Pass		
			18	24.10	0.10	24.20	<=33.01	Pass		
			39	24.06	0.10	24.16	<=33.01	Pass		
	75		0	24.11	0.10	24.21	<=33.01	Pass		
	2682.5		1	0	24.82	0.10	24.92	<=33.01	Pass	
				38	24.66	0.10	24.76	<=33.01	Pass	
		74		24.61	0.10	24.71	<=33.01	Pass		
		36	0	24.28	0.10	24.38	<=33.01	Pass		
			18	24.11	0.10	24.21	<=33.01	Pass		
			39	24.21	0.10	24.31	<=33.01	Pass		
		75	0	24.22	0.10	24.32	<=33.01	Pass		
		16QAM	2503.5	1	0	24.65	0.10	24.75	<=33.01	Pass
					38	24.59	0.10	24.69	<=33.01	Pass
	74				24.56	0.10	24.66	<=33.01	Pass	
36	0			22.78	0.10	22.88	<=33.01	Pass		
	18			22.83	0.10	22.93	<=33.01	Pass		
	39			22.88	0.10	22.98	<=33.01	Pass		
75	0			22.83	0.10	22.93	<=33.01	Pass		
2593	1			0	24.28	0.10	24.38	<=33.01	Pass	
				38	24.27	0.10	24.37	<=33.01	Pass	
			74	24.13	0.10	24.23	<=33.01	Pass		
	36		0	22.63	0.10	22.73	<=33.01	Pass		
			18	22.69	0.10	22.79	<=33.01	Pass		
			39	22.71	0.10	22.81	<=33.01	Pass		
	75		0	22.62	0.10	22.72	<=33.01	Pass		
	2682.5		1	0	24.48	0.10	24.58	<=33.01	Pass	
				38	24.45	0.10	24.55	<=33.01	Pass	
74				24.17	0.10	24.27	<=33.01	Pass		
36			0	22.63	0.10	22.73	<=33.01	Pass		
			18	22.79	0.10	22.89	<=33.01	Pass		
			39	22.60	0.10	22.70	<=33.01	Pass		



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64QAM	2503.5	75	0	22.62	0.10	22.72	<=33.01	Pass	
			1	0	24.16	0.10	24.26	<=33.01	Pass
				38	23.58	0.10	23.68	<=33.01	Pass
		36	74	23.75	0.10	23.85	<=33.01	Pass	
			0	22.78	0.10	22.88	<=33.01	Pass	
			18	22.75	0.10	22.85	<=33.01	Pass	
		75	39	22.90	0.10	23.00	<=33.01	Pass	
			0	22.84	0.10	22.94	<=33.01	Pass	
			1	0	24.06	0.10	24.16	<=33.01	Pass
	38	23.99		0.10	24.09	<=33.01	Pass		
	74	23.92		0.10	24.02	<=33.01	Pass		
	2593	36	0	22.76	0.10	22.86	<=33.01	Pass	
			18	22.60	0.10	22.70	<=33.01	Pass	
			39	22.71	0.10	22.81	<=33.01	Pass	
	75	0	22.76	0.10	22.86	<=33.01	Pass		
	2682.5	1	0	23.95	0.10	24.05	<=33.01	Pass	
			38	24.09	0.10	24.19	<=33.01	Pass	
			74	23.78	0.10	23.88	<=33.01	Pass	
		36	0	22.59	0.10	22.69	<=33.01	Pass	
			18	22.62	0.10	22.72	<=33.01	Pass	
			39	22.69	0.10	22.79	<=33.01	Pass	
		75	0	22.61	0.10	22.71	<=33.01	Pass	



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1.4 B41_20MHz_EIRP

1.4.1 Test Result

Band: 41 / Bandwidth: 20MHz / NTN									
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict	
		Size	Offset			Result	Limit		
QPSK	2506	1	0	24.76	0.10	24.86	<=33.01	Pass	
			50	24.89	0.10	24.99	<=33.01	Pass	
			99	24.79	0.10	24.89	<=33.01	Pass	
		50	0	24.29	0.10	24.39	<=33.01	Pass	
			25	24.32	0.10	24.42	<=33.01	Pass	
			50	24.32	0.10	24.42	<=33.01	Pass	
		100	0	24.32	0.10	24.42	<=33.01	Pass	
			1	0	24.66	0.10	24.76	<=33.01	Pass
				50	24.63	0.10	24.73	<=33.01	Pass
	99	24.71		0.10	24.81	<=33.01	Pass		
	2593	50	0	24.31	0.10	24.41	<=33.01	Pass	
			25	24.29	0.10	24.39	<=33.01	Pass	
			50	24.27	0.10	24.37	<=33.01	Pass	
		100	0	24.15	0.10	24.25	<=33.01	Pass	
			1	0	24.65	0.10	24.75	<=33.01	Pass
				50	24.68	0.10	24.78	<=33.01	Pass
	99	24.60		0.10	24.70	<=33.01	Pass		
	2680	50	0	24.21	0.10	24.31	<=33.01	Pass	
			25	24.18	0.10	24.28	<=33.01	Pass	
			50	24.11	0.10	24.21	<=33.01	Pass	
		100	0	24.29	0.10	24.39	<=33.01	Pass	
			1	0	24.45	0.10	24.55	<=33.01	Pass
				50	24.52	0.10	24.62	<=33.01	Pass
	16QAM	2506		1	99	24.37	0.10	24.47	<=33.01
0			22.88		0.10	22.98	<=33.01	Pass	
25			22.89		0.10	22.99	<=33.01	Pass	
50			50	22.84	0.10	22.94	<=33.01	Pass	
			0	22.81	0.10	22.91	<=33.01	Pass	
			1	0	24.33	0.10	24.43	<=33.01	Pass
50		24.26		0.10	24.36	<=33.01	Pass		
99		24.14		0.10	24.24	<=33.01	Pass		
2593		50	0	22.62	0.10	22.72	<=33.01	Pass	
			25	22.82	0.10	22.92	<=33.01	Pass	
			50	22.65	0.10	22.75	<=33.01	Pass	
		100	0	22.78	0.10	22.88	<=33.01	Pass	
	1		0	23.89	0.10	23.99	<=33.01	Pass	
			50	24.52	0.10	24.62	<=33.01	Pass	
99		24.31	0.10	24.41	<=33.01	Pass			
2680	50	0	22.79	0.10	22.89	<=33.01	Pass		
		25	22.79	0.10	22.89	<=33.01	Pass		
		50	22.66	0.10	22.76	<=33.01	Pass		



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64QAM	2506	100	0	22.70	0.10	22.80	<=33.01	Pass	
			1	0	24.04	0.10	24.14	<=33.01	Pass
				50	24.21	0.10	24.31	<=33.01	Pass
		50	99	23.90	0.10	24.00	<=33.01	Pass	
			50	0	22.75	0.10	22.85	<=33.01	Pass
				25	22.90	0.10	23.00	<=33.01	Pass
		100	50	22.91	0.10	23.01	<=33.01	Pass	
			100	0	22.86	0.10	22.96	<=33.01	Pass
				1	0	23.73	0.10	23.83	<=33.01
	2593	1	50	23.75	0.10	23.85	<=33.01	Pass	
			99	23.73	0.10	23.83	<=33.01	Pass	
			50	0	22.69	0.10	22.79	<=33.01	Pass
		25		22.80	0.10	22.90	<=33.01	Pass	
		50		22.79	0.10	22.89	<=33.01	Pass	
		100	0	22.78	0.10	22.88	<=33.01	Pass	
			1	0	23.77	0.10	23.87	<=33.01	Pass
				50	23.79	0.10	23.89	<=33.01	Pass
		99		24.00	0.10	24.10	<=33.01	Pass	
	2680	50	0	22.74	0.10	22.84	<=33.01	Pass	
			25	22.68	0.10	22.78	<=33.01	Pass	
			50	22.66	0.10	22.76	<=33.01	Pass	
		100	50	22.66	0.10	22.76	<=33.01	Pass	
			0	22.69	0.10	22.79	<=33.01	Pass	
			100	0	22.69	0.10	22.79	<=33.01	Pass



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2. Frequency Stability

2.1 B41_5MHz

2.1.1 Test Result

Band: 41 / Bandwidth: 5MHz										
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict	
		Size	Offset				Result	Limit		
QPSK	2498.5	25	0	20	3.91	1.530	0.0006	/	Pass	
					3.5	-3.573	-0.0014	/	Pass	
					4.5	7.362	0.0029	/	Pass	
				-30	3.91	0.640	0.0003	/	Pass	
					-20	3.91	2.714	0.0011	/	Pass
						-10	3.91	1.801	0.0007	/
				0	3.91	0.739	0.0003	/	Pass	
					10	3.91	-0.493	-0.0002	/	Pass
					30	3.91	-2.450	-0.0010	/	Pass
	40	3.91	-2.612		-0.0010	/	Pass			
	50	3.91	-0.483		-0.0002	/	Pass			
	2593	25	0	20	3.91	-2.550	-0.0010	/	Pass	
					3.5	-5.840	-0.0023	/	Pass	
					4.5	-3.799	-0.0015	/	Pass	
				-30	3.91	-3.072	-0.0012	/	Pass	
					-20	3.91	-3.784	-0.0015	/	Pass
						-10	3.91	-3.601	-0.0014	/
				0	3.91	-1.206	-0.0005	/	Pass	
					10	3.91	-5.328	-0.0021	/	Pass
					30	3.91	-2.956	-0.0011	/	Pass
	40	3.91	-7.833		-0.0030	/	Pass			
	50	3.91	-2.769		-0.0011	/	Pass			
	2687.5	25	0	20	3.91	-7.058	-0.0026	/	Pass	
					3.5	-1.476	-0.0005	/	Pass	
					4.5	-2.324	-0.0009	/	Pass	
				-30	3.91	0.987	0.0004	/	Pass	
					-20	3.91	-3.122	-0.0012	/	Pass
-10						3.91	-1.595	-0.0006	/	Pass
0				3.91	-10.350	-0.0039	/	Pass		
				10	3.91	2.316	0.0009	/	Pass	
				30	3.91	-4.605	-0.0017	/	Pass	
	40	3.91	-2.427	-0.0009	/	Pass				
	50	3.91	-0.093	0.0000	/	Pass				
16QAM	2498.5	25	0	20	3.91	-0.992	-0.0004	/	Pass	
					3.5	1.194	0.0005	/	Pass	
					4.5	1.944	0.0008	/	Pass	
				-30	3.91	0.574	0.0002	/	Pass	
				-20	3.91	-2.217	-0.0009	/	Pass	
-10	3.91	-2.254	-0.0009		/	Pass				



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64QAM	2593	25	0	0	3.91	-2.699	-0.0011	/	Pass			
				10	3.91	3.584	0.0014	/	Pass			
				30	3.91	-5.429	-0.0022	/	Pass			
				40	3.91	0.516	0.0002	/	Pass			
				50	3.91	0.734	0.0003	/	Pass			
	2687.5	25	0	20	3.91	0.659	0.0003	/	Pass			
					3.5	-7.215	-0.0028	/	Pass			
					4.5	-0.893	-0.0003	/	Pass			
				-30	3.91	-1.819	-0.0007	/	Pass			
				-20	3.91	-3.624	-0.0014	/	Pass			
				-10	3.91	-4.670	-0.0018	/	Pass			
				0	3.91	-7.984	-0.0031	/	Pass			
				10	3.91	-3.704	-0.0014	/	Pass			
				30	3.91	-3.976	-0.0015	/	Pass			
				40	3.91	-7.191	-0.0028	/	Pass			
	2498.5	25	0	20	3.91	-6.862	-0.0026	/	Pass			
					3.5	-6.722	-0.0025	/	Pass			
					4.5	-7.136	-0.0027	/	Pass			
				-30	3.91	-3.945	-0.0015	/	Pass			
				-20	3.91	-3.203	-0.0012	/	Pass			
				-10	3.91	2.050	0.0008	/	Pass			
				0	3.91	-1.829	-0.0007	/	Pass			
				10	3.91	-3.466	-0.0013	/	Pass			
				30	3.91	-3.086	-0.0011	/	Pass			
				40	3.91	-2.437	-0.0009	/	Pass			
				50	3.91	-1.894	-0.0007	/	Pass			
				2593	25	0	20	3.91	-2.171	-0.0009	/	Pass
								3.5	1.692	0.0007	/	Pass
4.5	1.498	0.0006	/					Pass				
-30	3.91	0.206	0.0001				/	Pass				
-20	3.91	-1.862	-0.0007				/	Pass				
-10	3.91	1.627	0.0007				/	Pass				
0	3.91	0.519	0.0002				/	Pass				
10	3.91	0.204	0.0001				/	Pass				
30	3.91	1.898	0.0008				/	Pass				
40	3.91	0.248	0.0001				/	Pass				
50	3.91	3.031	0.0012				/	Pass				
2593	25	0	20				3.91	-5.851	-0.0023	/	Pass	
							3.5	-2.060	-0.0008	/	Pass	
							4.5	-2.429	-0.0009	/	Pass	
			-30	3.91	-5.935	-0.0023	/	Pass				
			-20	3.91	-3.569	-0.0014	/	Pass				
			-10	3.91	-3.847	-0.0015	/	Pass				
			0	3.91	-5.273	-0.0020	/	Pass				
			10	3.91	-0.178	-0.0001	/	Pass				
30	3.91	-5.452	-0.0021	/	Pass							
40	3.91	-1.598	-0.0006	/	Pass							
50	3.91	-4.071	-0.0016	/	Pass							



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2687.5	25	0	20	3.91	-1.202	-0.0004	/	Pass
				3.5	-2.311	-0.0009	/	Pass
				4.5	-2.450	-0.0009	/	Pass
			-30	3.91	-1.499	-0.0006	/	Pass
			-20	3.91	0.477	0.0002	/	Pass
			-10	3.91	-1.287	-0.0005	/	Pass
			0	3.91	-0.158	-0.0001	/	Pass
			10	3.91	-0.121	0.0000	/	Pass
			30	3.91	0.590	0.0002	/	Pass
			40	3.91	3.862	0.0014	/	Pass
			50	3.91	-0.547	-0.0002	/	Pass



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2.2 B41_10MHz

2.2.1 Test Result

Band: 41 / Bandwidth: 10MHz										
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict	
		Size	Offset				Result	Limit		
QPSK	2501	50	0	20	3.91	-3.554	-0.0014	/	Pass	
					3.5	-1.923	-0.0008	/	Pass	
					4.5	0.653	0.0003	/	Pass	
				-30	3.91	-0.319	-0.0001	/	Pass	
					-20	3.91	-3.518	-0.0014	/	Pass
					-10	3.91	-1.608	-0.0006	/	Pass
				0	3.91	-2.659	-0.0011	/	Pass	
					10	3.91	-0.947	-0.0004	/	Pass
					30	3.91	-4.076	-0.0016	/	Pass
				40	3.91	1.749	0.0007	/	Pass	
					50	3.91	-0.412	-0.0002	/	Pass
					20	3.91	-2.002	-0.0008	/	Pass
	3.5	-2.703	-0.0010	/		Pass				
	4.5	-6.753	-0.0026	/		Pass				
	-30	3.91	-5.503	-0.0021	/	Pass				
		-20	3.91	0.887	0.0003	/	Pass			
		-10	3.91	-2.806	-0.0011	/	Pass			
	0	3.91	-3.513	-0.0014	/	Pass				
		10	3.91	-5.801	-0.0022	/	Pass			
		30	3.91	-0.835	-0.0003	/	Pass			
	40	3.91	-6.975	-0.0027	/	Pass				
		50	3.91	-1.577	-0.0006	/	Pass			
		20	3.91	-1.247	-0.0005	/	Pass			
	3.5		-1.836	-0.0007	/	Pass				
	4.5		-0.298	-0.0001	/	Pass				
	-30	3.91	-2.452	-0.0009	/	Pass				
		-20	3.91	-3.804	-0.0014	/	Pass			
		-10	3.91	-0.193	-0.0001	/	Pass			
	0	3.91	-4.886	-0.0018	/	Pass				
		10	3.91	-3.384	-0.0013	/	Pass			
30		3.91	-0.763	-0.0003	/	Pass				
40	3.91	-2.491	-0.0009	/	Pass					
	50	3.91	1.369	0.0005	/	Pass				
	20	3.91	-1.576	-0.0006	/	Pass				
3.5		-3.286	-0.0013	/	Pass					
4.5		0.690	0.0003	/	Pass					
-30	3.91	-0.489	-0.0002	/	Pass					
	-20	3.91	-2.289	-0.0009	/	Pass				
	-10	3.91	1.638	0.0007	/	Pass				
0	3.91	-1.248	-0.0005	/	Pass					
	10	3.91	-2.543	-0.0010	/	Pass				
	16QAM	2501	50	0	20	3.91	-1.576	-0.0006	/	Pass
3.5						-3.286	-0.0013	/	Pass	
4.5						0.690	0.0003	/	Pass	
-30	3.91	-0.489	-0.0002	/	Pass					
	-20	3.91	-2.289	-0.0009	/	Pass				
	-10	3.91	1.638	0.0007	/	Pass				
0	3.91	-1.248	-0.0005	/	Pass					
	10	3.91	-2.543	-0.0010	/	Pass				



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64QAM	2593	50	0	30	3.91	-2.117	-0.0008	/	Pass		
				40	3.91	-2.894	-0.0012	/	Pass		
				50	3.91	-1.562	-0.0006	/	Pass		
				20	3.91	-0.080	0.0000	/	Pass		
					3.5	2.318	0.0009	/	Pass		
					4.5	-2.257	-0.0009	/	Pass		
				-30	3.91	-5.835	-0.0023	/	Pass		
				-20	3.91	0.134	0.0001	/	Pass		
				-10	3.91	-4.391	-0.0017	/	Pass		
				0	3.91	-1.884	-0.0007	/	Pass		
				10	3.91	-2.150	-0.0008	/	Pass		
				30	3.91	0.192	0.0001	/	Pass		
	40	3.91	-1.958	-0.0008	/	Pass					
	50	3.91	-2.108	-0.0008	/	Pass					
	2685	50	0	20	3.91	0.564	0.0002	/	Pass		
					3.5	-1.521	-0.0006	/	Pass		
					4.5	-0.276	-0.0001	/	Pass		
				-30	3.91	-5.260	-0.0020	/	Pass		
				-20	3.91	-4.423	-0.0016	/	Pass		
				-10	3.91	0.979	0.0004	/	Pass		
				0	3.91	-3.755	-0.0014	/	Pass		
				10	3.91	-3.629	-0.0014	/	Pass		
				30	3.91	-1.819	-0.0007	/	Pass		
				40	3.91	-4.563	-0.0017	/	Pass		
				50	3.91	1.097	0.0004	/	Pass		
				2501	50	0	20	3.91	-1.761	-0.0007	/
	3.5	-0.269	-0.0001					/	Pass		
	4.5	2.738	0.0011					/	Pass		
	-30	3.91	-2.468				-0.0010	/	Pass		
	-20	3.91	0.343				0.0001	/	Pass		
-10	3.91	2.074	0.0008				/	Pass			
0	3.91	0.288	0.0001				/	Pass			
10	3.91	0.794	0.0003				/	Pass			
30	3.91	0.557	0.0002				/	Pass			
40	3.91	-3.413	-0.0014				/	Pass			
50	3.91	-1.336	-0.0005				/	Pass			
2593	50	0	20				3.91	-3.257	-0.0013	/	Pass
							3.5	-0.150	-0.0001	/	Pass
							4.5	-1.783	-0.0007	/	Pass
			-30				3.91	-5.961	-0.0023	/	Pass
			-20				3.91	0.747	0.0003	/	Pass
			-10				3.91	1.696	0.0007	/	Pass
			0				3.91	-2.220	-0.0009	/	Pass
			10	3.91	-0.718	-0.0003	/	Pass			
			30	3.91	-3.547	-0.0014	/	Pass			
			40	3.91	-3.036	-0.0012	/	Pass			
			50	3.91	-6.328	-0.0024	/	Pass			
			2685	50	0	20	3.91	-3.312	-0.0012	/	Pass
3.5	-3.249	-0.0012					/	Pass			



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				4.5	3.209	0.0012	/	Pass
				-30	3.91	-2.434	-0.0009	Pass
				-20	3.91	-0.081	0.0000	Pass
				-10	3.91	-8.459	-0.0032	Pass
				0	3.91	-2.118	-0.0008	Pass
				10	3.91	0.847	0.0003	Pass
				30	3.91	-1.826	-0.0007	Pass
				40	3.91	-2.457	-0.0009	Pass
				50	3.91	-0.104	0.0000	Pass



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2.3 B41_15MHz

2.3.1 Test Result

Band: 41 / Bandwidth: 15MHz										
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict	
		Size	Offset				Result	Limit		
QPSK	2503.5	75	0	20	3.91	-2.946	-0.0012	/	Pass	
					3.5	-5.355	-0.0021	/	Pass	
					4.5	-1.888	-0.0008	/	Pass	
				-30	3.91	-1.156	-0.0005	/	Pass	
					-20	3.91	-0.540	-0.0002	/	Pass
					-10	3.91	-2.304	-0.0009	/	Pass
				0	3.91	1.580	0.0006	/	Pass	
					10	3.91	4.394	0.0018	/	Pass
					30	3.91	1.902	0.0008	/	Pass
				40	3.91	-1.075	-0.0004	/	Pass	
					50	3.91	-1.758	-0.0007	/	Pass
					20	3.91	-0.331	-0.0001	/	Pass
	3.5	-0.274	-0.0001	/		Pass				
	4.5	-1.539	-0.0006	/		Pass				
	-30	3.91	-1.072	-0.0004	/	Pass				
		-20	3.91	-4.659	-0.0018	/	Pass			
		-10	3.91	-1.830	-0.0007	/	Pass			
	0	3.91	-2.742	-0.0011	/	Pass				
		10	3.91	-2.676	-0.0010	/	Pass			
		30	3.91	-2.330	-0.0009	/	Pass			
	40	3.91	-3.925	-0.0015	/	Pass				
		50	3.91	-0.491	-0.0002	/	Pass			
		20	3.91	-1.530	-0.0006	/	Pass			
	3.5		-2.084	-0.0008	/	Pass				
	4.5		1.605	0.0006	/	Pass				
	-30	3.91	-3.264	-0.0012	/	Pass				
		-20	3.91	-4.854	-0.0018	/	Pass			
		-10	3.91	-3.928	-0.0015	/	Pass			
	0	3.91	-0.910	-0.0003	/	Pass				
		10	3.91	-1.124	-0.0004	/	Pass			
30		3.91	-4.068	-0.0015	/	Pass				
40	3.91	-3.549	-0.0013	/	Pass					
	50	3.91	-2.918	-0.0011	/	Pass				
	20	3.91	0.218	0.0001	/	Pass				
3.5		1.625	0.0006	/	Pass					
4.5		2.667	0.0011	/	Pass					
-30	3.91	-0.730	-0.0003	/	Pass					
	-20	3.91	4.136	0.0017	/	Pass				
	-10	3.91	-1.302	-0.0005	/	Pass				
0	3.91	-4.760	-0.0019	/	Pass					
	10	3.91	-1.156	-0.0005	/	Pass				
	16QAM	2503.5	75	0	20	3.91	0.218	0.0001	/	Pass
3.5						1.625	0.0006	/	Pass	
4.5						2.667	0.0011	/	Pass	
-30	3.91	-0.730	-0.0003	/	Pass					
	-20	3.91	4.136	0.0017	/	Pass				
	-10	3.91	-1.302	-0.0005	/	Pass				
0	3.91	-4.760	-0.0019	/	Pass					
	10	3.91	-1.156	-0.0005	/	Pass				



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64QAM	2593	75	0	30	3.91	-0.673	-0.0003	/	Pass		
				40	3.91	-6.293	-0.0025	/	Pass		
				50	3.91	1.844	0.0007	/	Pass		
				20	3.91	-2.578	-0.0010	/	Pass		
					3.5	-1.439	-0.0006	/	Pass		
					4.5	-2.548	-0.0010	/	Pass		
				-30	3.91	-2.508	-0.0010	/	Pass		
				-20	3.91	-4.733	-0.0018	/	Pass		
				-10	3.91	-2.574	-0.0010	/	Pass		
				0	3.91	0.879	0.0003	/	Pass		
	10	3.91	0.574	0.0002	/	Pass					
	30	3.91	-5.243	-0.0020	/	Pass					
	40	3.91	-1.081	-0.0004	/	Pass					
	50	3.91	-1.353	-0.0005	/	Pass					
	2682.5	75	0	20	3.91	-2.778	-0.0010	/	Pass		
					3.5	-5.866	-0.0022	/	Pass		
					4.5	-4.573	-0.0017	/	Pass		
				-30	3.91	-4.501	-0.0017	/	Pass		
				-20	3.91	-2.062	-0.0008	/	Pass		
				-10	3.91	0.647	0.0002	/	Pass		
0				3.91	0.437	0.0002	/	Pass			
10				3.91	1.951	0.0007	/	Pass			
30				3.91	-1.716	-0.0006	/	Pass			
40				3.91	0.901	0.0003	/	Pass			
50	3.91	-1.483	-0.0006	/	Pass						
2503.5	75	0	20	3.91	2.342	0.0009	/	Pass			
				3.5	-1.927	-0.0008	/	Pass			
				4.5	1.164	0.0005	/	Pass			
			-30	3.91	-3.908	-0.0016	/	Pass			
			-20	3.91	-3.325	-0.0013	/	Pass			
			-10	3.91	-0.825	-0.0003	/	Pass			
			0	3.91	-4.594	-0.0018	/	Pass			
			10	3.91	-1.074	-0.0004	/	Pass			
			30	3.91	4.625	0.0018	/	Pass			
			40	3.91	3.077	0.0012	/	Pass			
			50	3.91	-3.082	-0.0012	/	Pass			
			2593	75	0	20	3.91	-5.940	-0.0023	/	Pass
							3.5	-3.943	-0.0015	/	Pass
							4.5	-5.007	-0.0019	/	Pass
						-30	3.91	-4.034	-0.0016	/	Pass
-20	3.91	-3.683				-0.0014	/	Pass			
-10	3.91	-5.165				-0.0020	/	Pass			
0	3.91	-0.899				-0.0003	/	Pass			
10	3.91	-4.294				-0.0017	/	Pass			
30	3.91	-1.684				-0.0006	/	Pass			
40	3.91	-4.630				-0.0018	/	Pass			
50	3.91	-0.203	-0.0001	/	Pass						
2682.5	75	0	20	3.91	-3.899	-0.0015	/	Pass			
				3.5	-4.314	-0.0016	/	Pass			



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				4.5	-3.859	-0.0014	/	Pass
				-30	3.91	-5.930	-0.0022	Pass
				-20	3.91	-1.853	-0.0007	Pass
				-10	3.91	-3.419	-0.0013	Pass
				0	3.91	-1.998	-0.0007	Pass
				10	3.91	-3.728	-0.0014	Pass
				30	3.91	-2.051	-0.0008	Pass
				40	3.91	-4.640	-0.0017	Pass
				50	3.91	-1.323	-0.0005	Pass



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2.4 B41_20MHz

2.4.1 Test Result

Band: 41 / Bandwidth: 20MHz										
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict	
		Size	Offset				Result	Limit		
QPSK	2506	100	0	20	3.91	-0.918	-0.0004	/	Pass	
					3.5	-5.055	-0.0020	/	Pass	
					4.5	0.817	0.0003	/	Pass	
				-30	3.91	1.260	0.0005	/	Pass	
					-20	3.91	0.122	0.0000	/	Pass
					-10	3.91	2.765	0.0011	/	Pass
				0	3.91	-4.370	-0.0017	/	Pass	
					10	3.91	-2.630	-0.0010	/	Pass
					30	3.91	2.143	0.0009	/	Pass
	2593	100	0	20	3.91	-2.391	-0.0009	/	Pass	
					3.5	-3.949	-0.0015	/	Pass	
					4.5	-0.085	0.0000	/	Pass	
				-30	3.91	-1.866	-0.0007	/	Pass	
					-20	3.91	-0.732	-0.0003	/	Pass
					-10	3.91	-1.978	-0.0008	/	Pass
				0	3.91	-4.234	-0.0016	/	Pass	
					10	3.91	-2.298	-0.0009	/	Pass
					30	3.91	-3.237	-0.0012	/	Pass
	2680	100	0	20	3.91	-0.017	0.0000	/	Pass	
					3.5	-1.446	-0.0005	/	Pass	
					4.5	-2.491	-0.0009	/	Pass	
				-30	3.91	-0.827	-0.0003	/	Pass	
					-20	3.91	2.833	0.0011	/	Pass
					-10	3.91	-5.756	-0.0021	/	Pass
				0	3.91	-0.840	-0.0003	/	Pass	
					10	3.91	-1.386	-0.0005	/	Pass
					30	3.91	-1.178	-0.0004	/	Pass
16QAM	2506	100	0	20	3.91	-6.425	-0.0026	/	Pass	
					3.5	2.909	0.0012	/	Pass	
					4.5	1.588	0.0006	/	Pass	
				-30	3.91	0.093	0.0000	/	Pass	
					-20	3.91	-1.259	-0.0005	/	Pass
					-10	3.91	0.471	0.0002	/	Pass
				0	3.91	0.072	0.0000	/	Pass	
					10	3.91	0.502	0.0002	/	Pass



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64QAM	2593	100	0	30	3.91	-1.541	-0.0006	/	Pass		
				40	3.91	-4.966	-0.0020	/	Pass		
				50	3.91	1.384	0.0006	/	Pass		
				20	3.91	-1.064	-0.0004	/	Pass		
					3.5	-0.764	-0.0003	/	Pass		
					4.5	-3.086	-0.0012	/	Pass		
				-30	3.91	-10.429	-0.0040	/	Pass		
				-20	3.91	0.176	0.0001	/	Pass		
				-10	3.91	-1.604	-0.0006	/	Pass		
				0	3.91	-4.698	-0.0018	/	Pass		
	10	3.91	-4.086	-0.0016	/	Pass					
	30	3.91	0.620	0.0002	/	Pass					
	40	3.91	-2.677	-0.0010	/	Pass					
	50	3.91	-1.777	-0.0007	/	Pass					
	2680	100	0	20	3.91	-0.318	-0.0001	/	Pass		
					3.5	-2.721	-0.0010	/	Pass		
					4.5	-2.030	-0.0008	/	Pass		
				-30	3.91	-2.430	-0.0009	/	Pass		
				-20	3.91	-4.760	-0.0018	/	Pass		
				-10	3.91	0.479	0.0002	/	Pass		
0				3.91	-3.961	-0.0015	/	Pass			
10				3.91	-3.413	-0.0013	/	Pass			
30				3.91	-4.908	-0.0018	/	Pass			
40				3.91	-0.920	-0.0003	/	Pass			
50	3.91	0.004	0.0000	/	Pass						
2506	100	0	20	3.91	-2.300	-0.0009	/	Pass			
				3.5	-0.501	-0.0002	/	Pass			
				4.5	-1.535	-0.0006	/	Pass			
			-30	3.91	4.197	0.0017	/	Pass			
			-20	3.91	5.836	0.0023	/	Pass			
			-10	3.91	1.581	0.0006	/	Pass			
			0	3.91	-4.706	-0.0019	/	Pass			
			10	3.91	-4.608	-0.0018	/	Pass			
			30	3.91	-2.249	-0.0009	/	Pass			
			40	3.91	-4.536	-0.0018	/	Pass			
			50	3.91	2.520	0.0010	/	Pass			
			2593	100	0	20	3.91	-3.604	-0.0014	/	Pass
							3.5	-1.815	-0.0007	/	Pass
							4.5	0.647	0.0002	/	Pass
						-30	3.91	-2.089	-0.0008	/	Pass
						-20	3.91	-3.616	-0.0014	/	Pass
						-10	3.91	-1.037	-0.0004	/	Pass
						0	3.91	-4.906	-0.0019	/	Pass
10	3.91	-1.617				-0.0006	/	Pass			
30	3.91	-2.064				-0.0008	/	Pass			
40	3.91	-4.304				-0.0017	/	Pass			
50	3.91	-4.146	-0.0016	/	Pass						
2680	100	0	20	3.91	0.020	0.0000	/	Pass			
				3.5	-3.462	-0.0013	/	Pass			



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				4.5	-2.508	-0.0009	/	Pass
				-30	3.91	-5.434	-0.0020	Pass
				-20	3.91	-5.107	-0.0019	Pass
				-10	3.91	-1.925	-0.0007	Pass
				0	3.91	-3.284	-0.0012	Pass
				10	3.91	-3.036	-0.0011	Pass
				30	3.91	-0.409	-0.0002	Pass
				40	3.91	-2.524	-0.0009	Pass
				50	3.91	0.229	0.0001	Pass



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3. 99% & 26dB Bandwidth

3.1 Band41_OBW

3.1.1 Test Result

Band: 41 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2498.5	25	0	4.542	/	Pass
		2593	25	0	4.547	/	Pass
		2687.5	25	0	4.546	/	Pass
	16QAM	2498.5	25	0	4.549	/	Pass
		2593	25	0	4.540	/	Pass
		2687.5	25	0	4.550	/	Pass
	64QAM	2498.5	25	0	4.586	/	Pass
		2593	25	0	4.546	/	Pass
		2687.5	25	0	4.568	/	Pass
10	QPSK	2501	50	0	9.073	/	Pass
		2593	50	0	9.074	/	Pass
		2685	50	0	9.132	/	Pass
	16QAM	2501	50	0	9.086	/	Pass
		2593	50	0	9.048	/	Pass
		2685	50	0	9.078	/	Pass
	64QAM	2501	50	0	9.042	/	Pass
		2593	50	0	9.047	/	Pass
		2685	50	0	9.038	/	Pass
15	QPSK	2503.5	75	0	13.650	/	Pass
		2593	75	0	13.638	/	Pass
		2682.5	75	0	13.589	/	Pass
	16QAM	2503.5	75	0	13.702	/	Pass
		2593	75	0	13.626	/	Pass
		2682.5	75	0	13.691	/	Pass
	64QAM	2503.5	75	0	13.588	/	Pass
		2593	75	0	13.668	/	Pass
		2682.5	75	0	13.598	/	Pass
20	QPSK	2506	100	0	18.113	/	Pass
		2593	100	0	18.125	/	Pass
		2680	100	0	18.162	/	Pass
	16QAM	2506	100	0	18.097	/	Pass
		2593	100	0	18.171	/	Pass
		2680	100	0	18.159	/	Pass
	64QAM	2506	100	0	18.099	/	Pass
		2593	100	0	18.113	/	Pass
		2680	100	0	18.118	/	Pass



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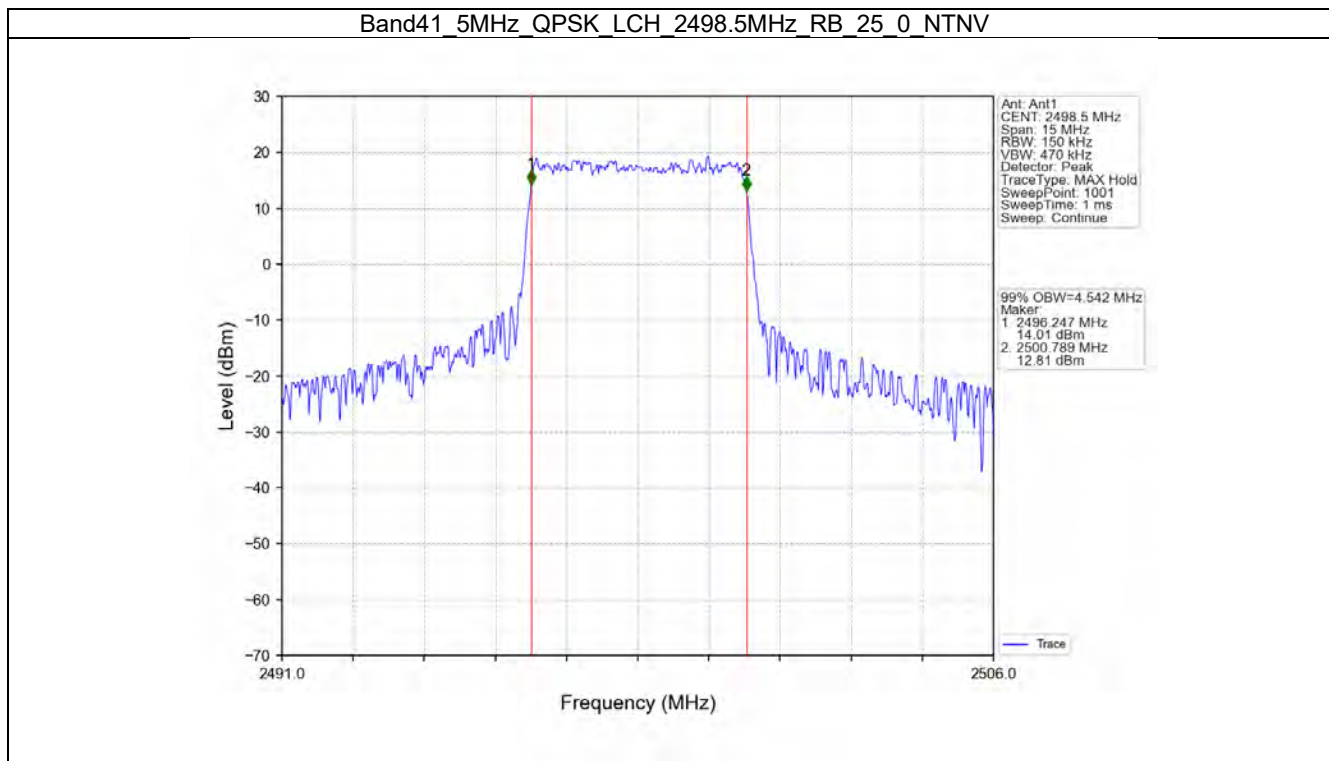
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3.1.2 Test Graph



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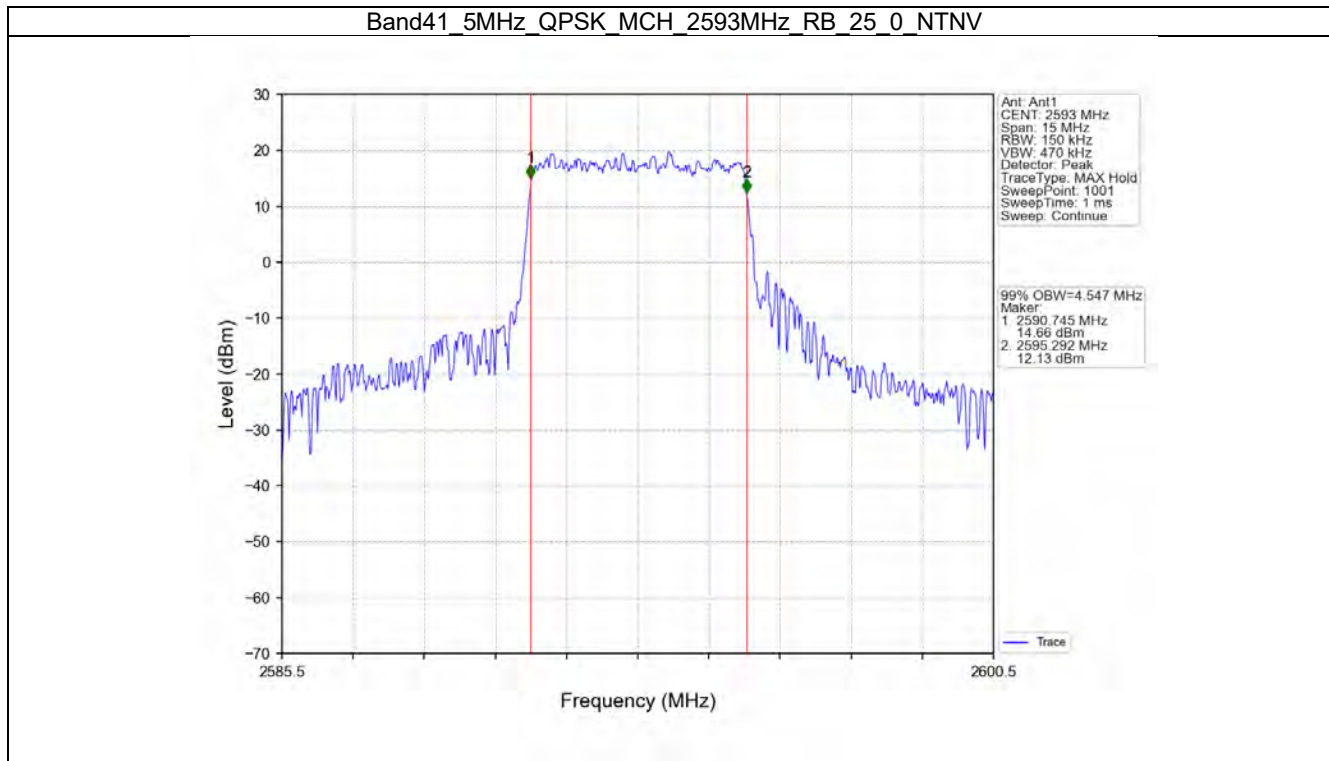


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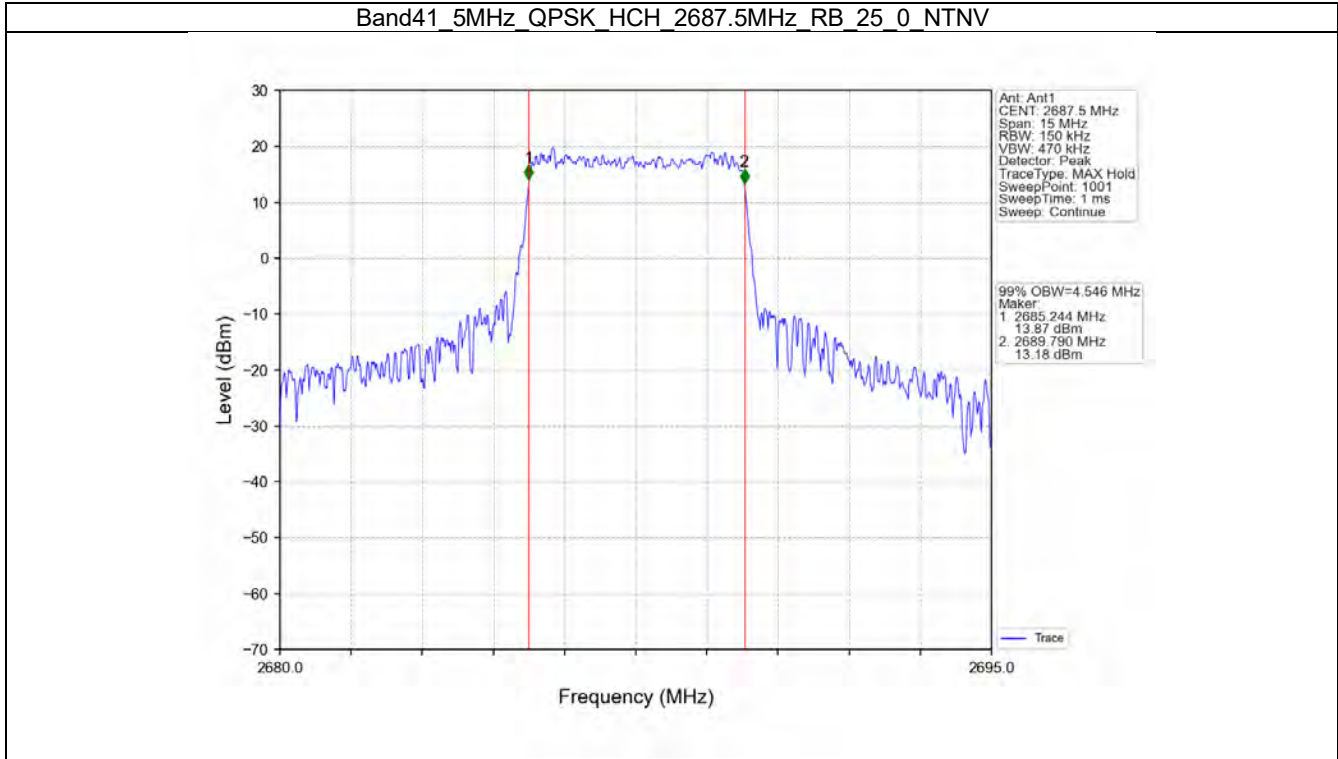
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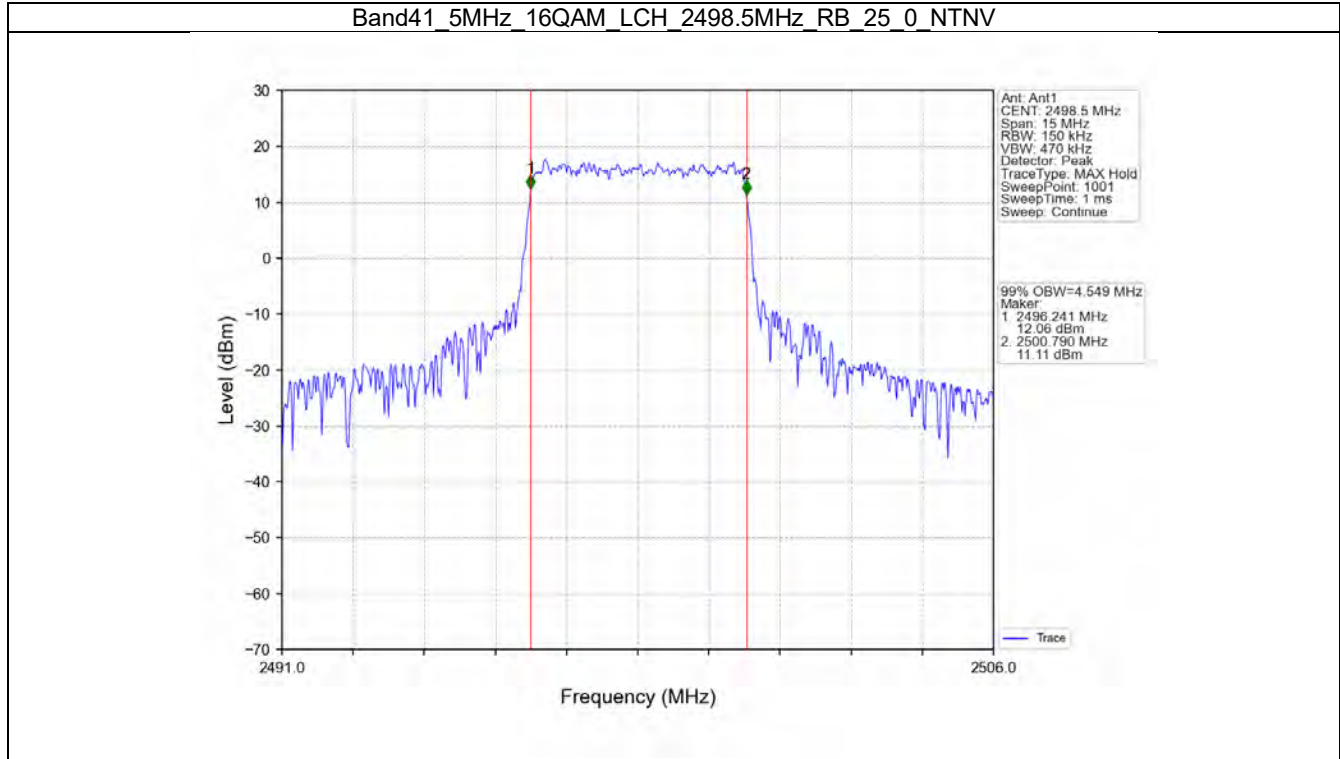
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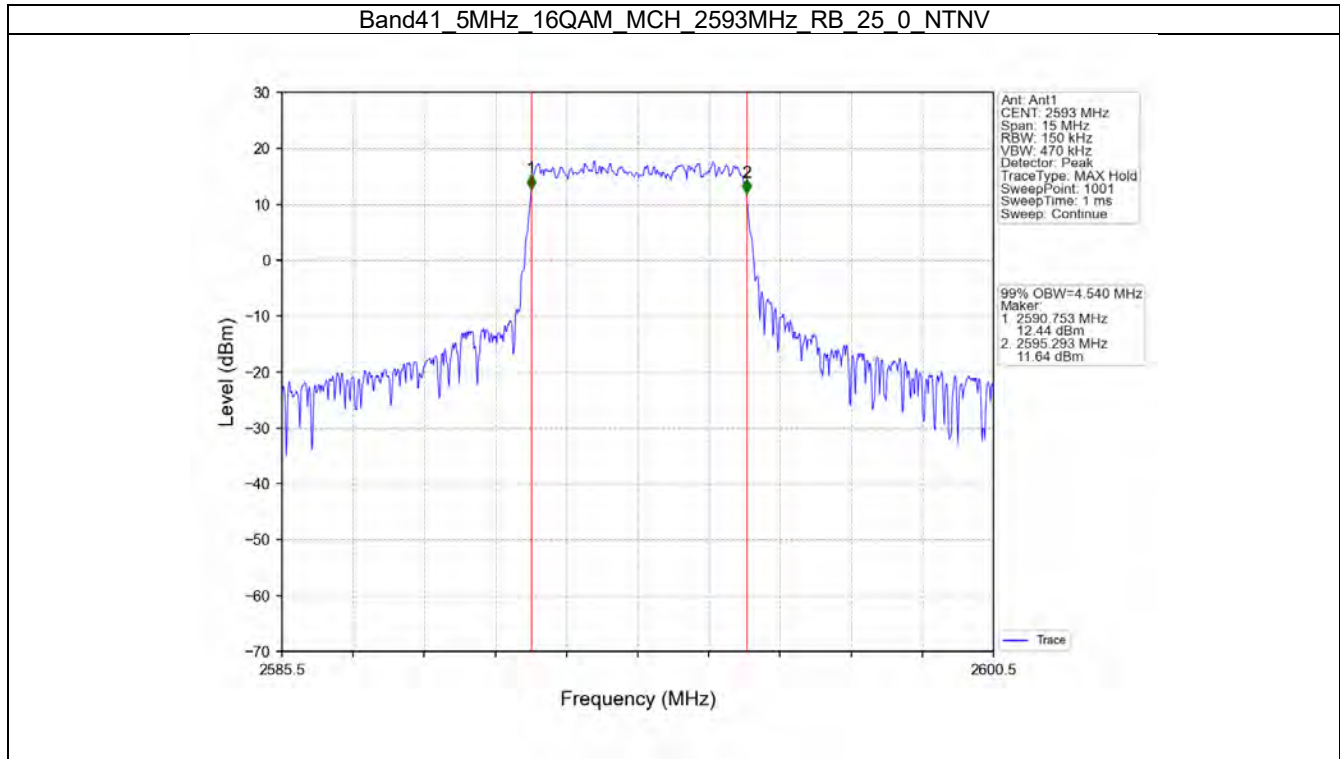
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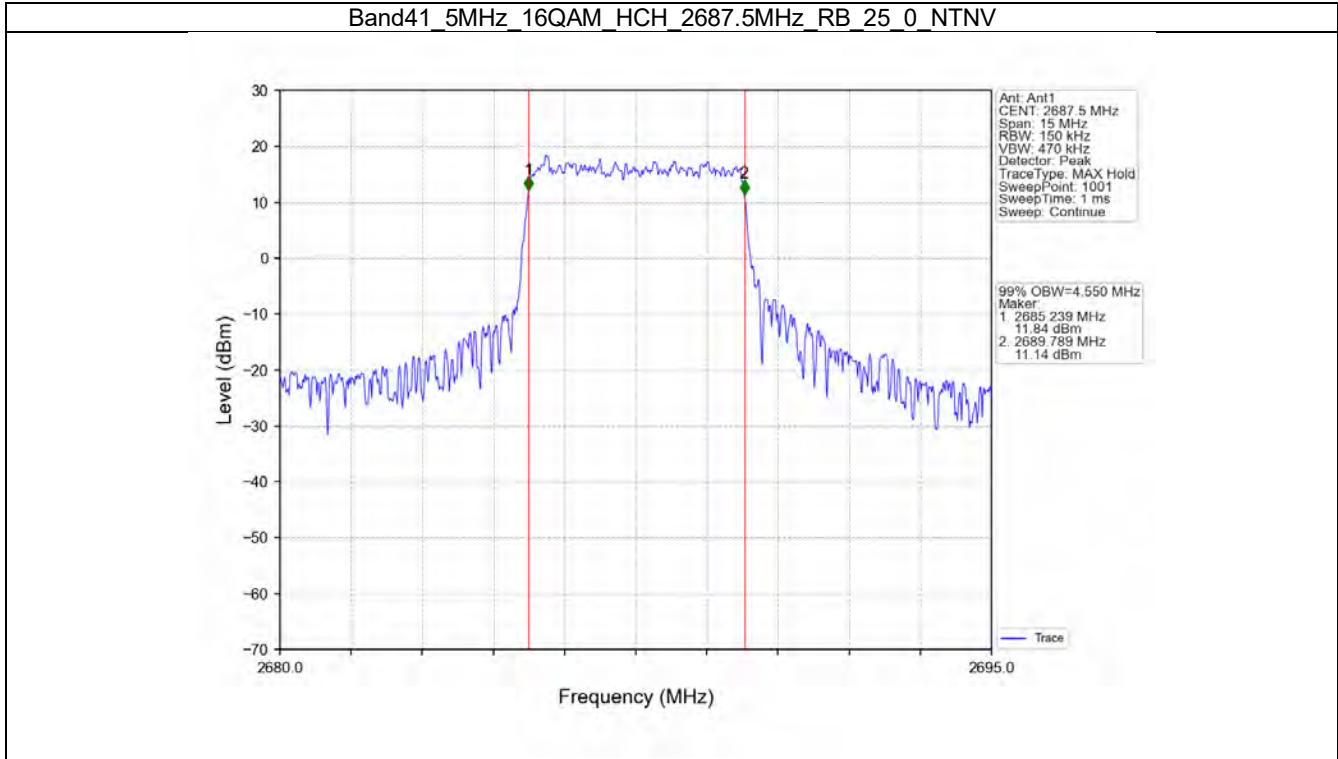
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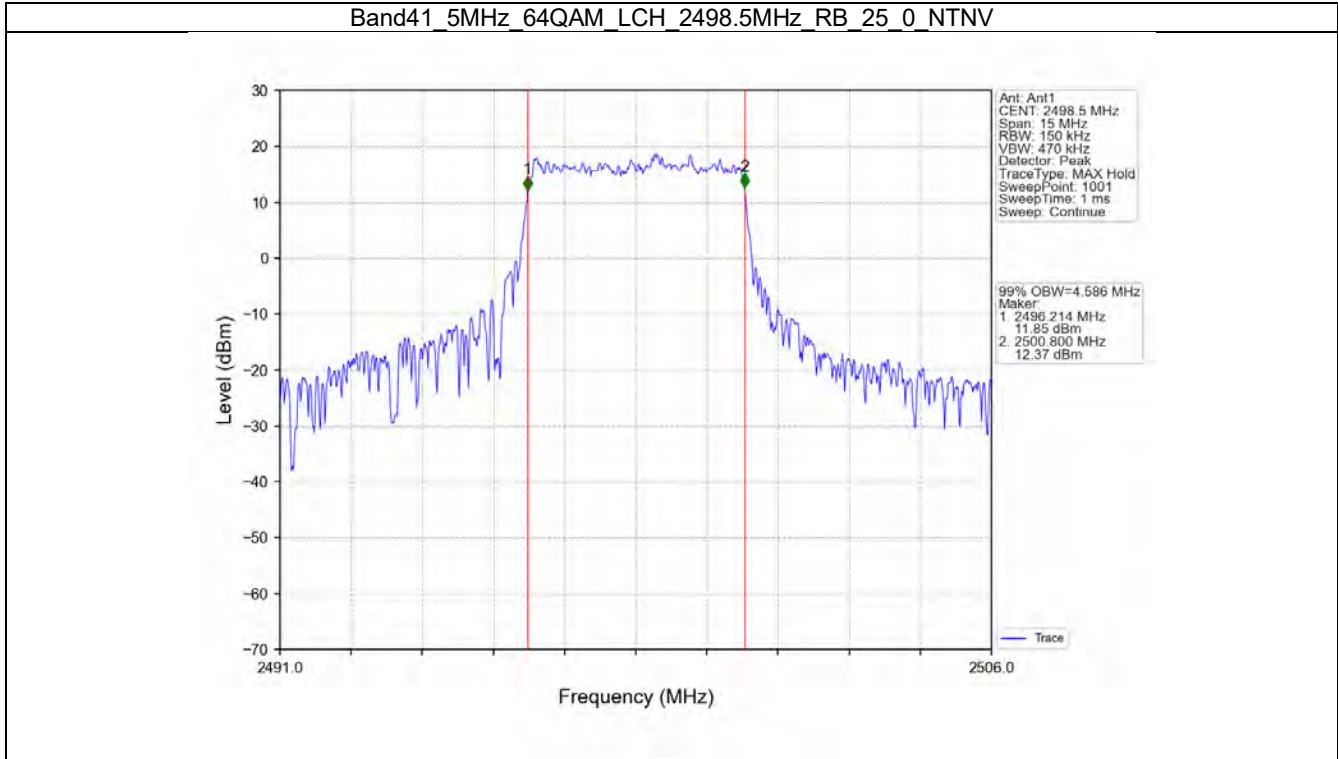
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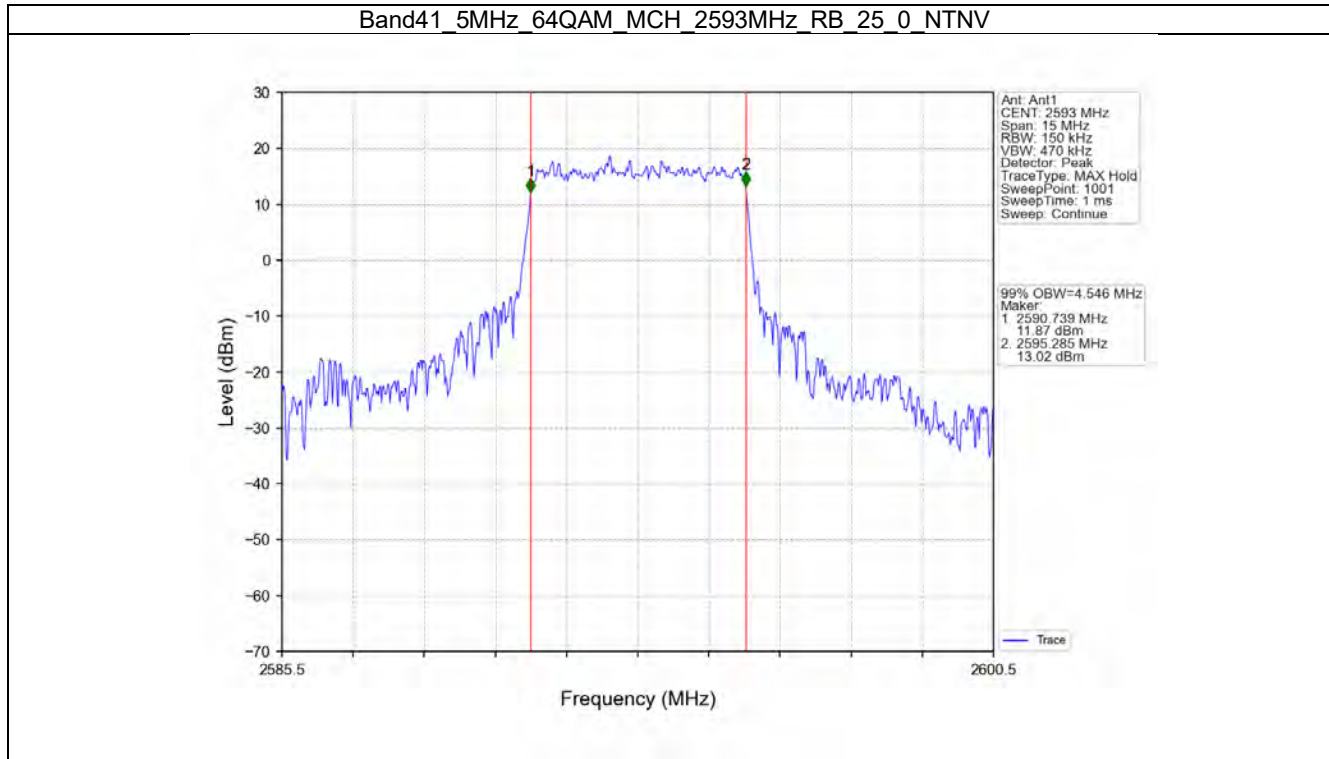


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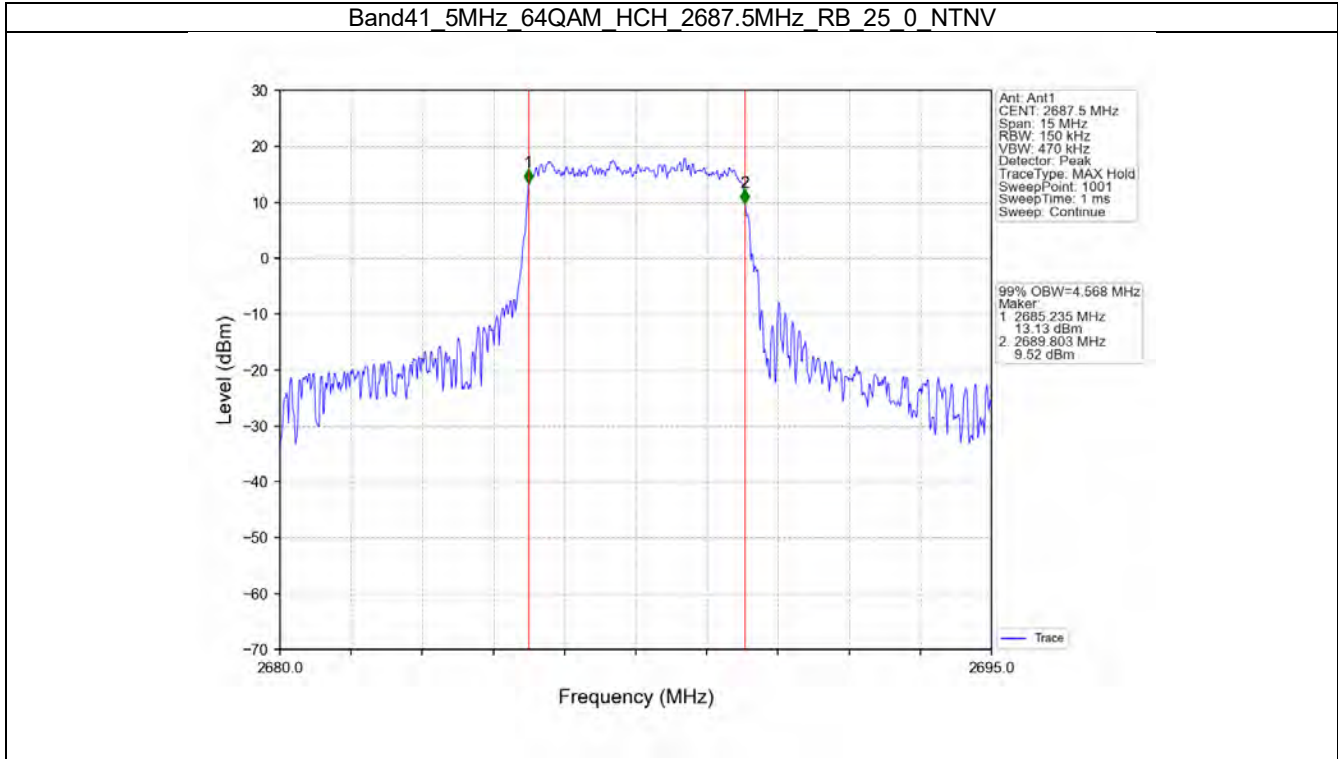
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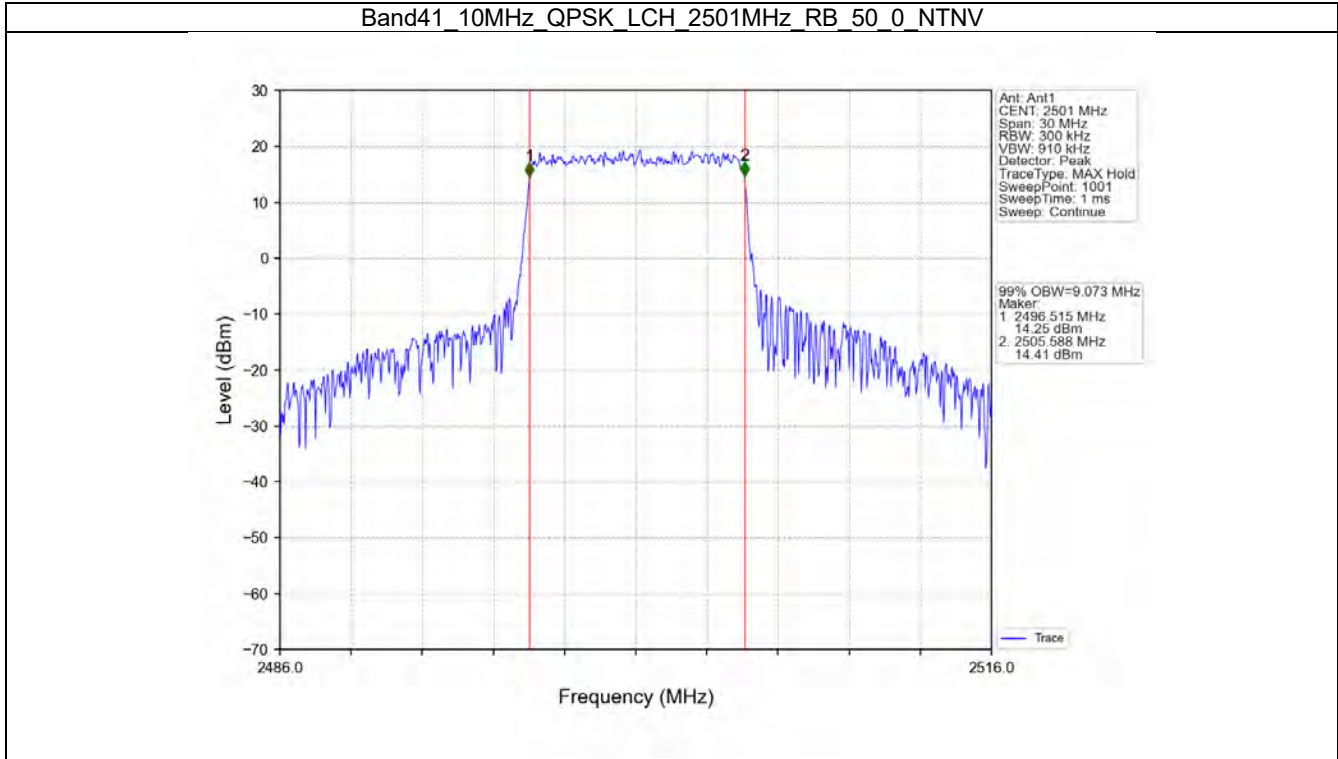
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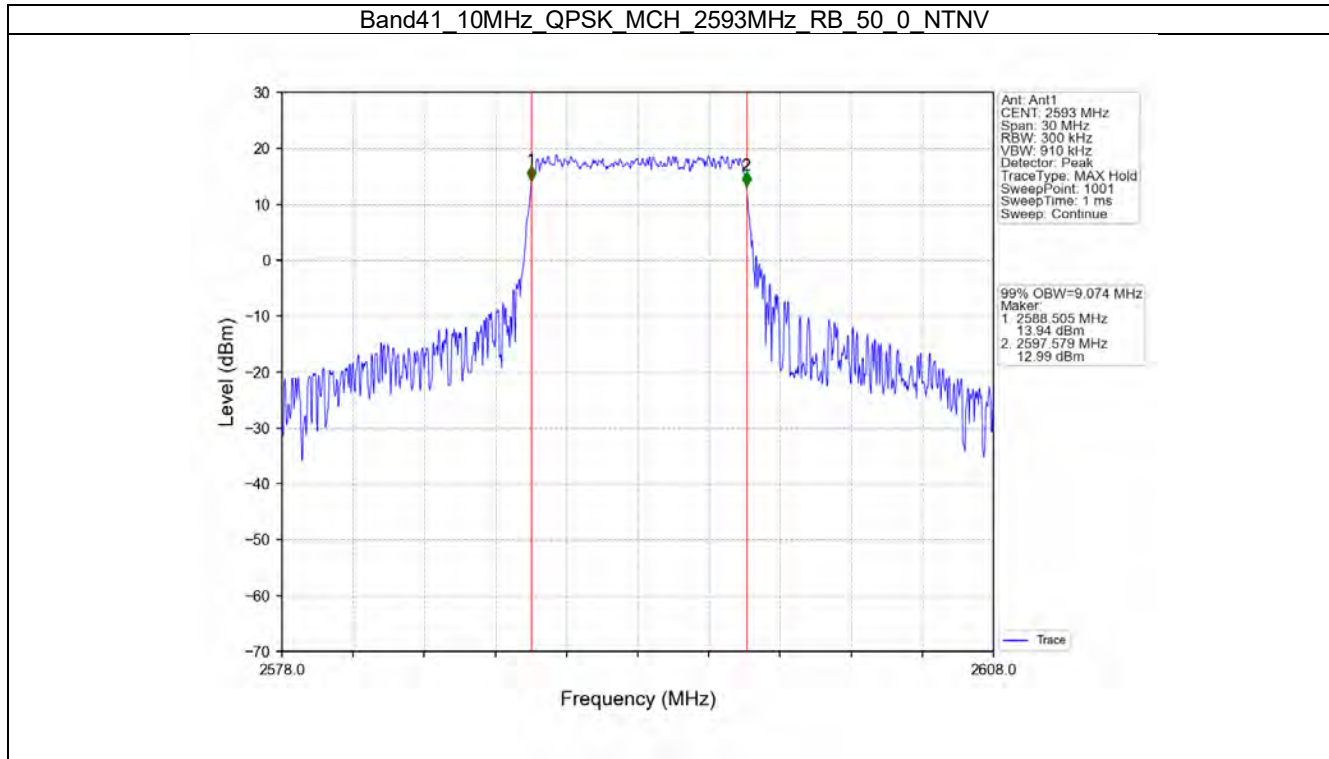


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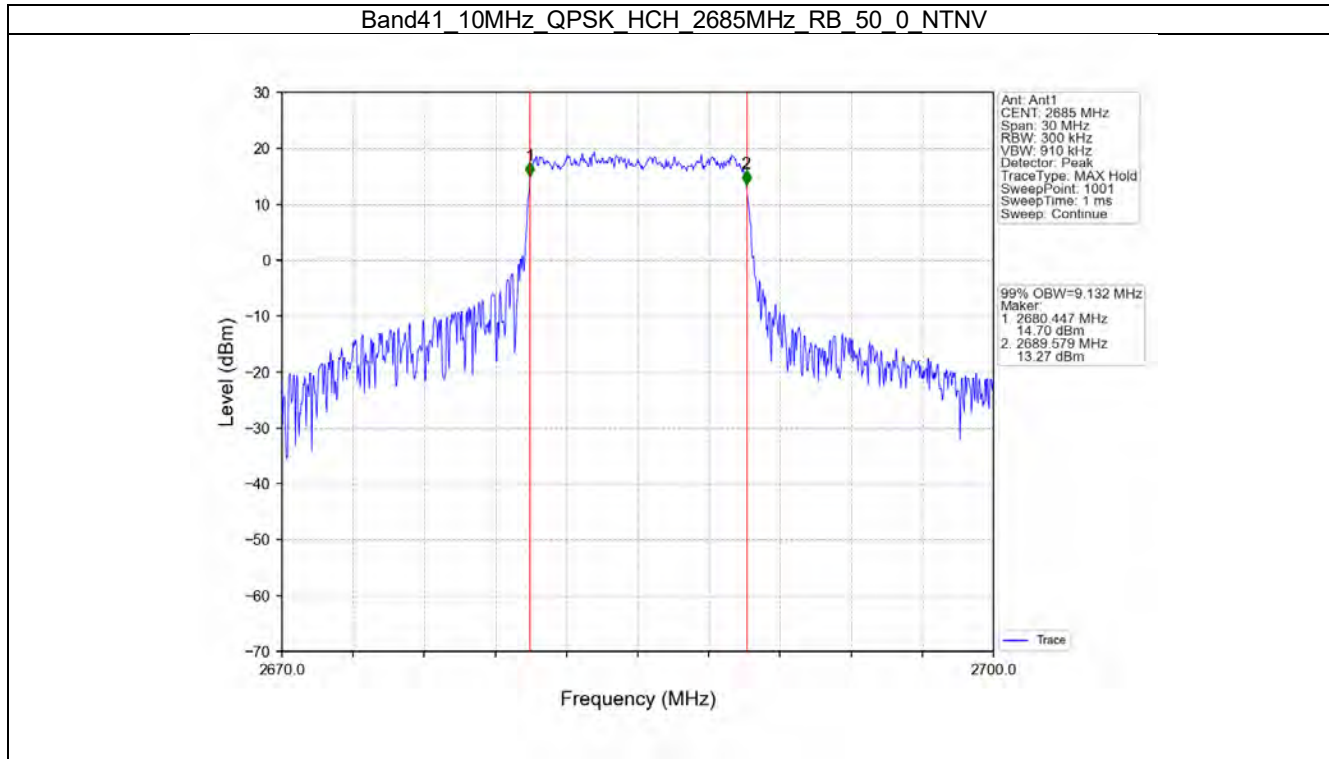


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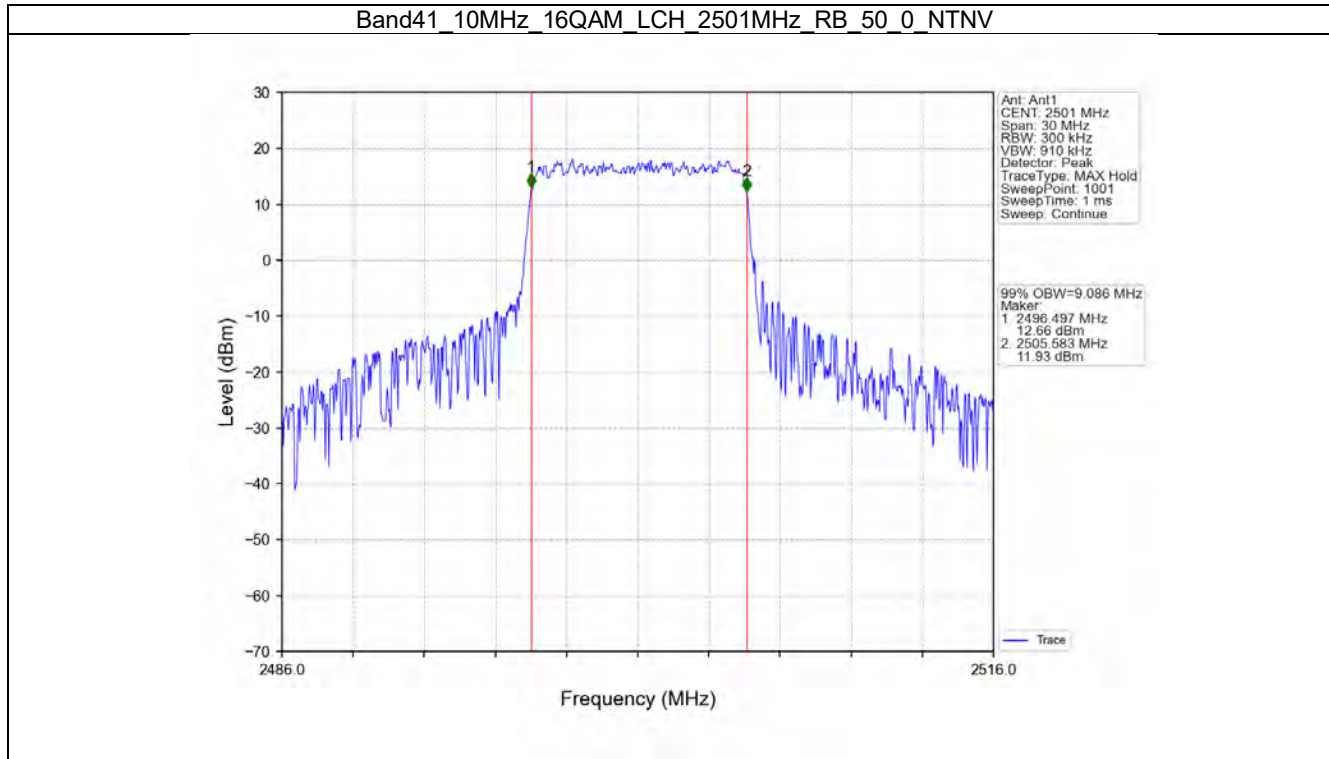


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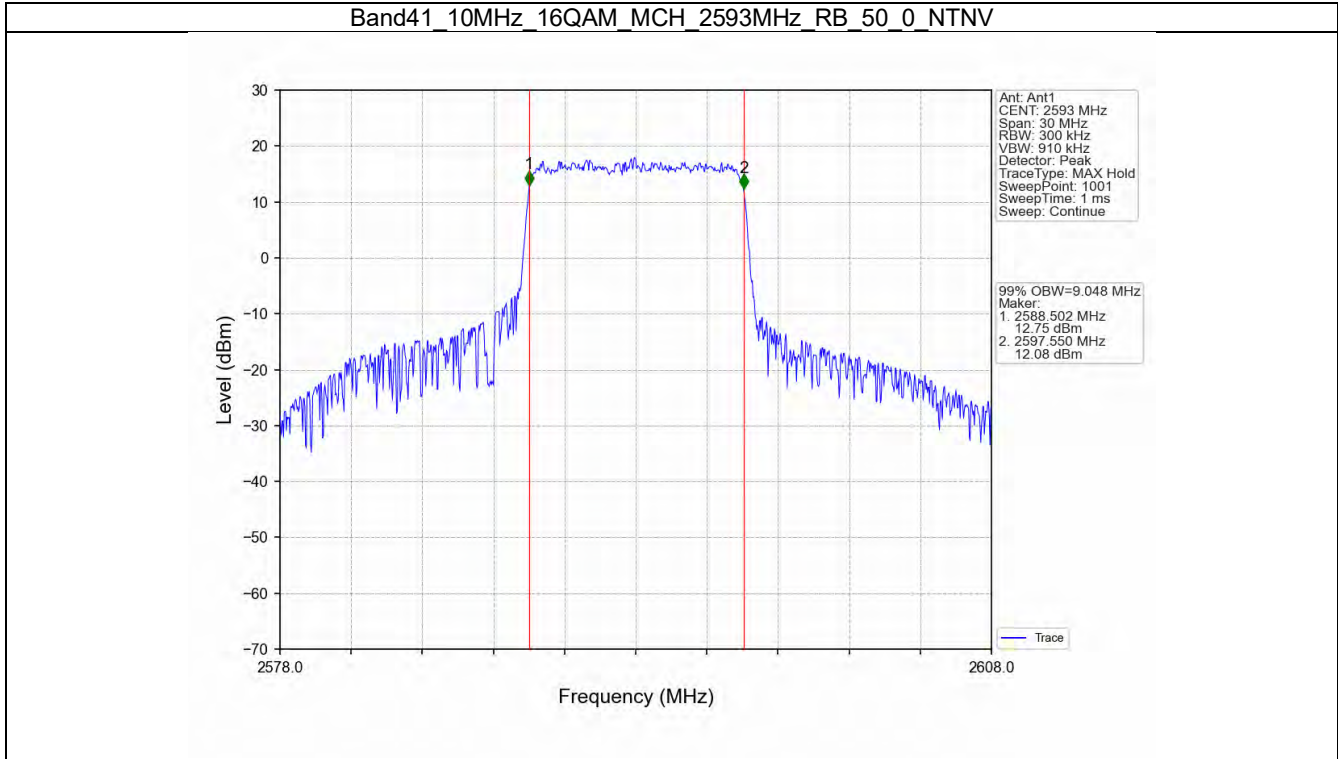
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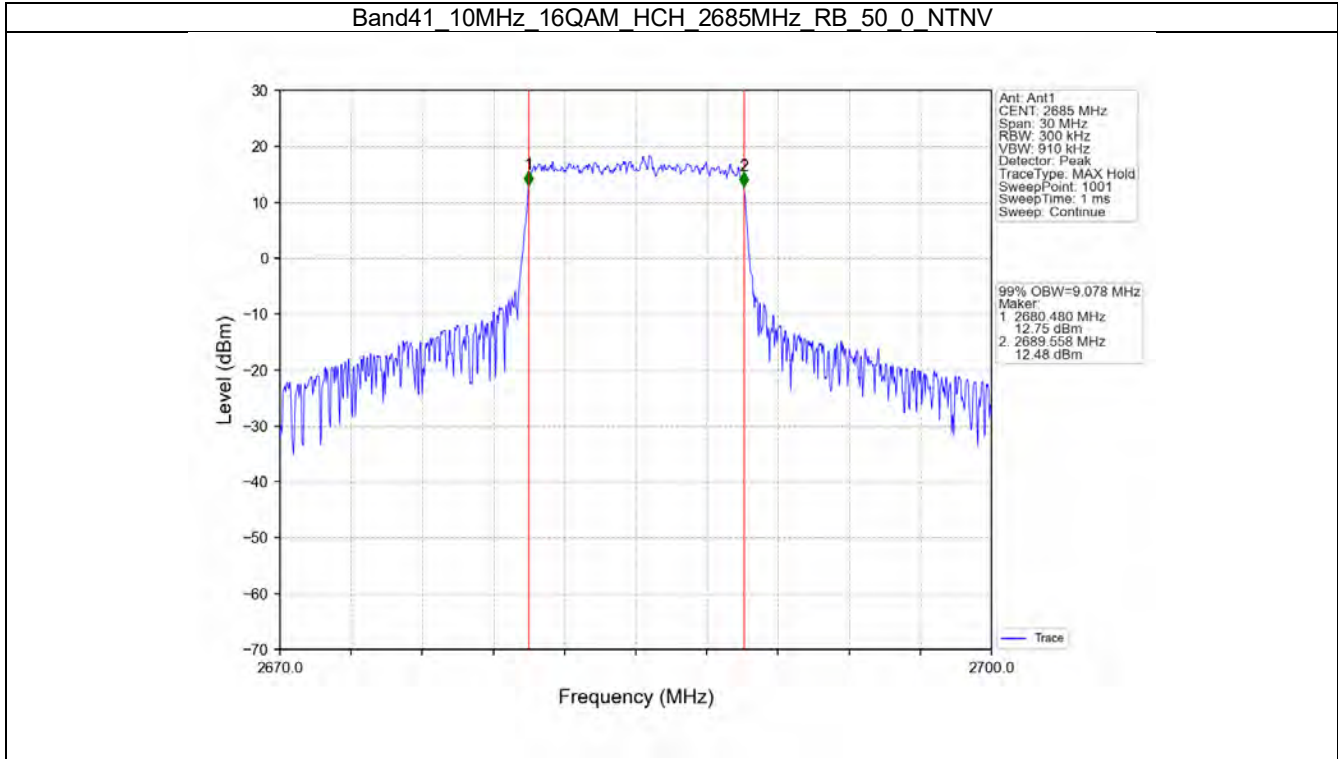
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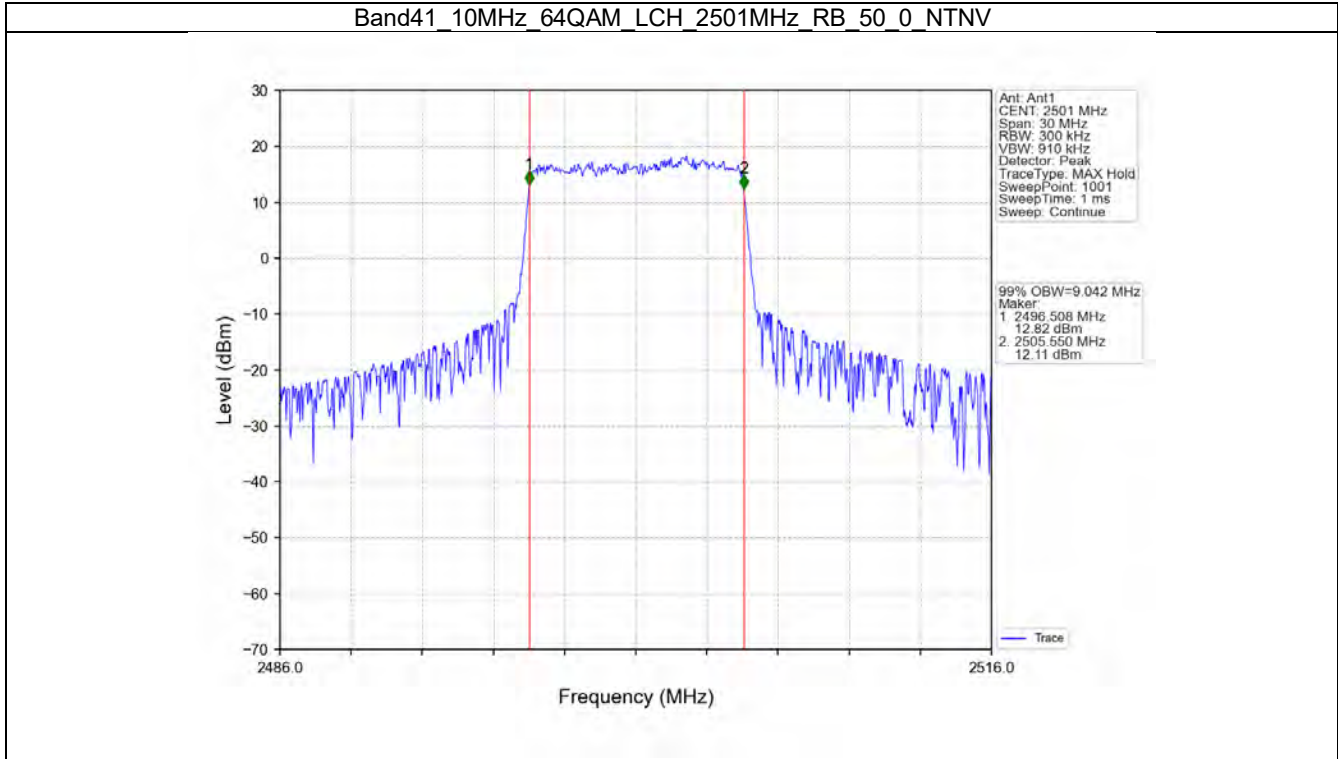
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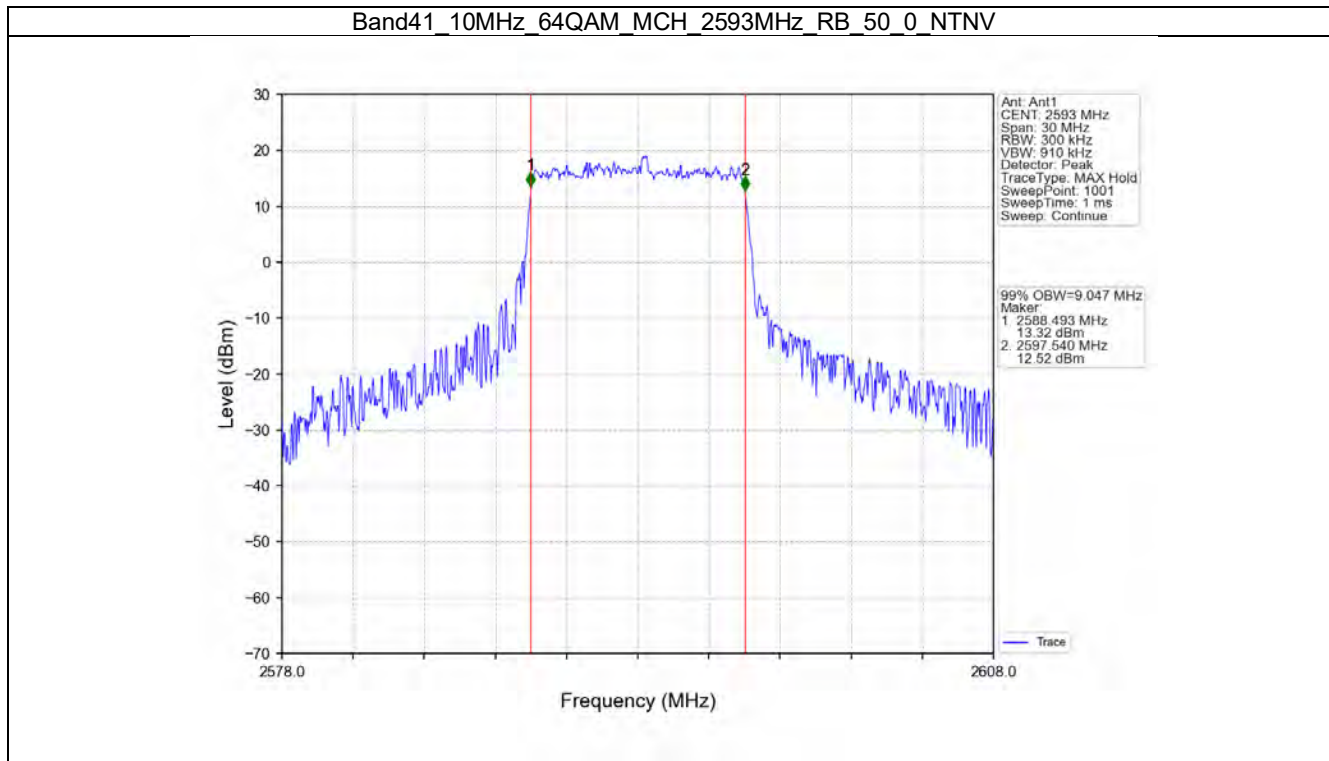


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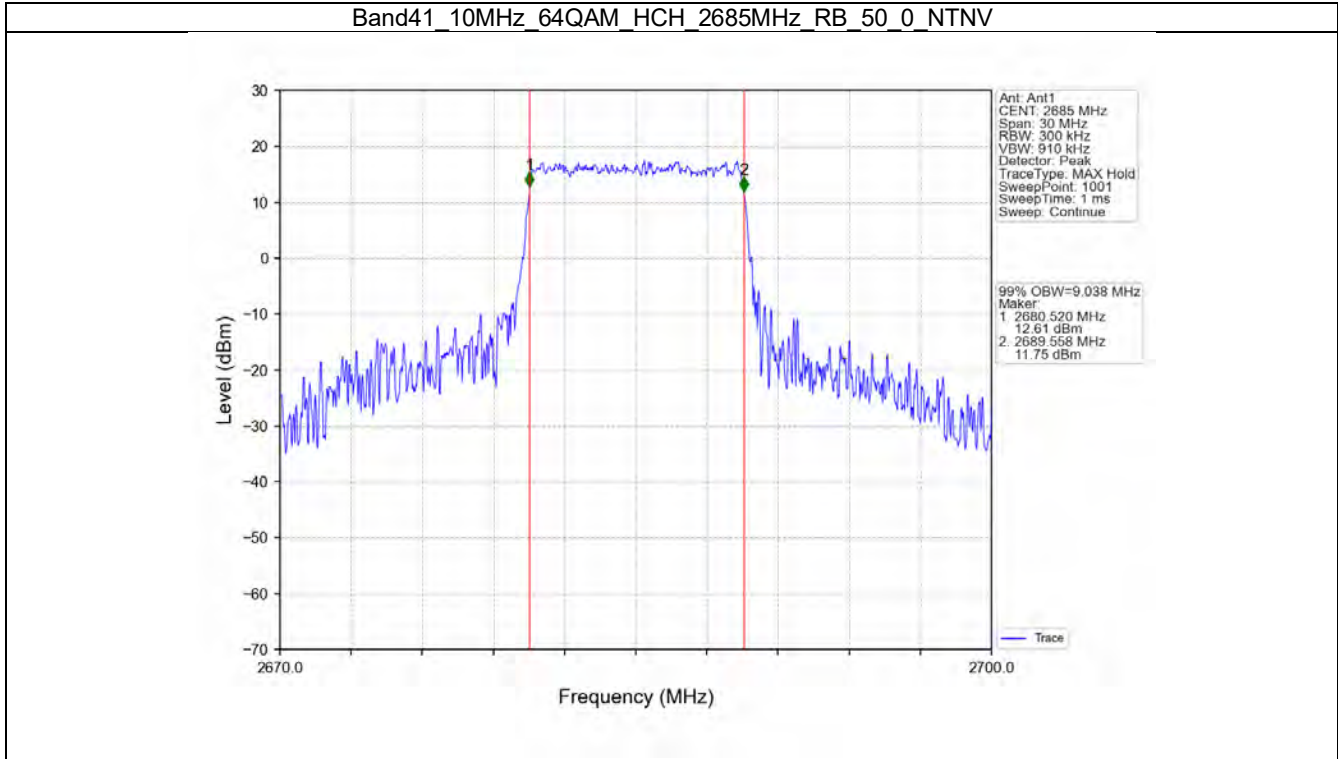
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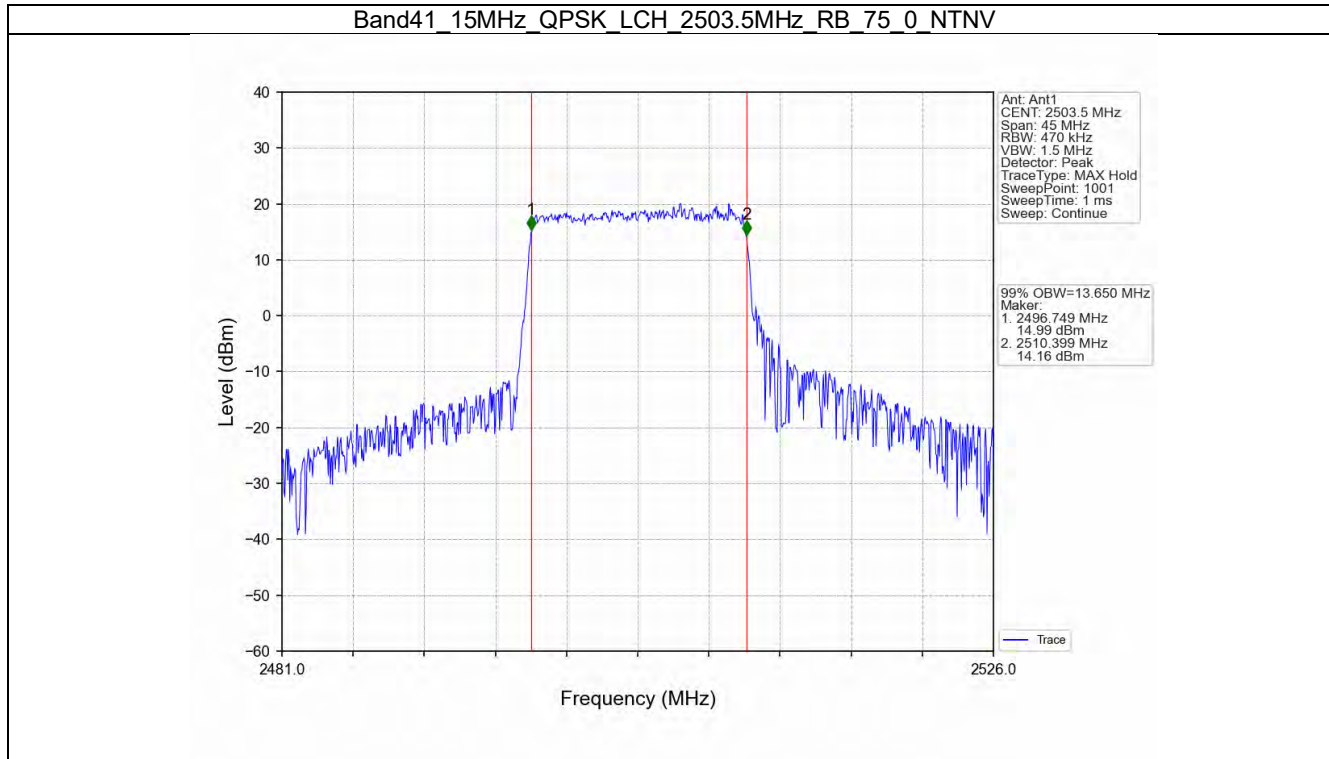


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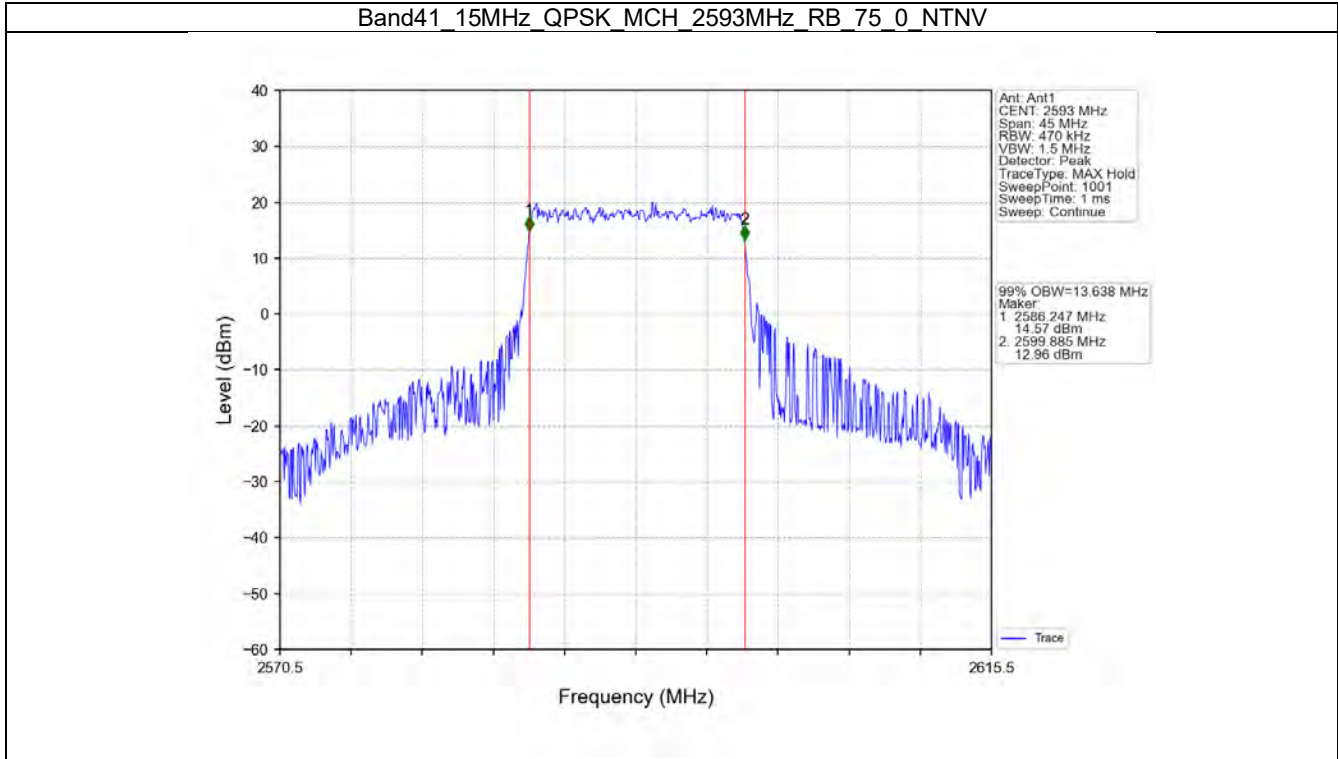
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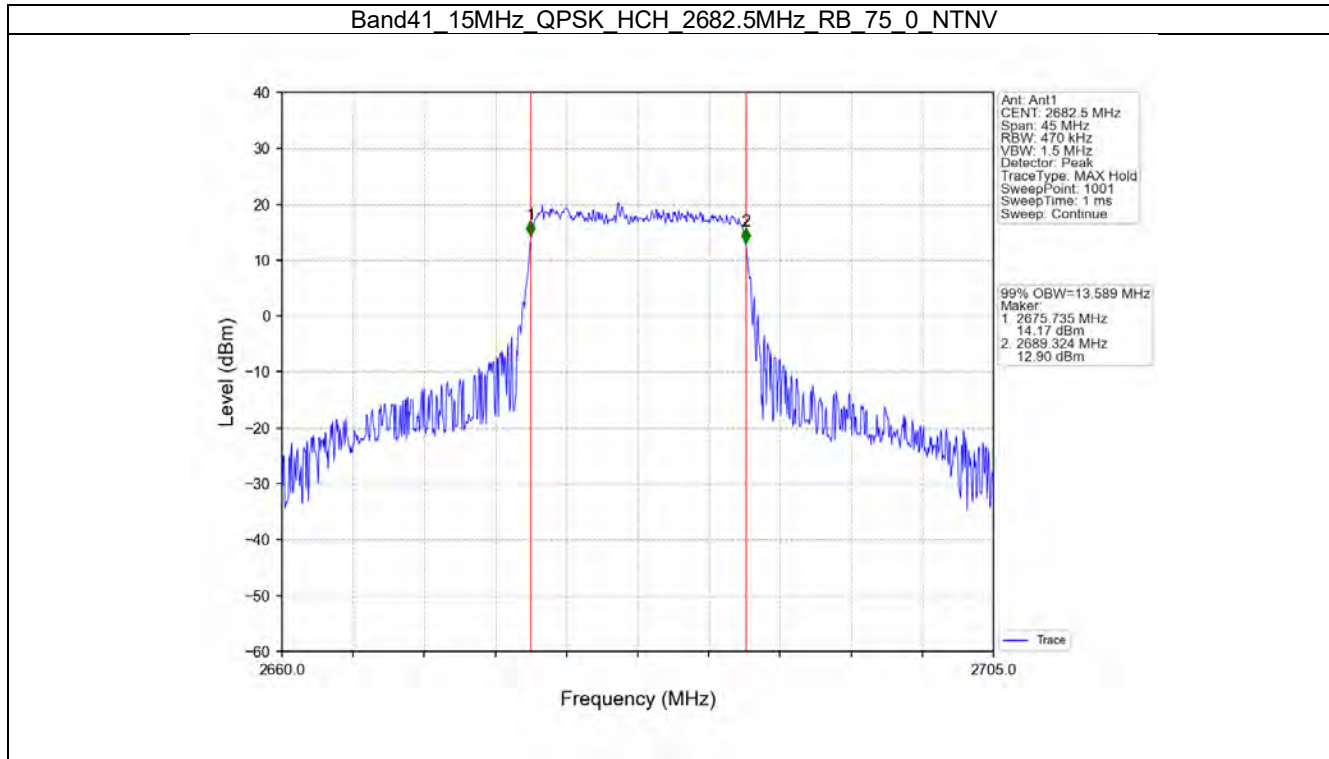


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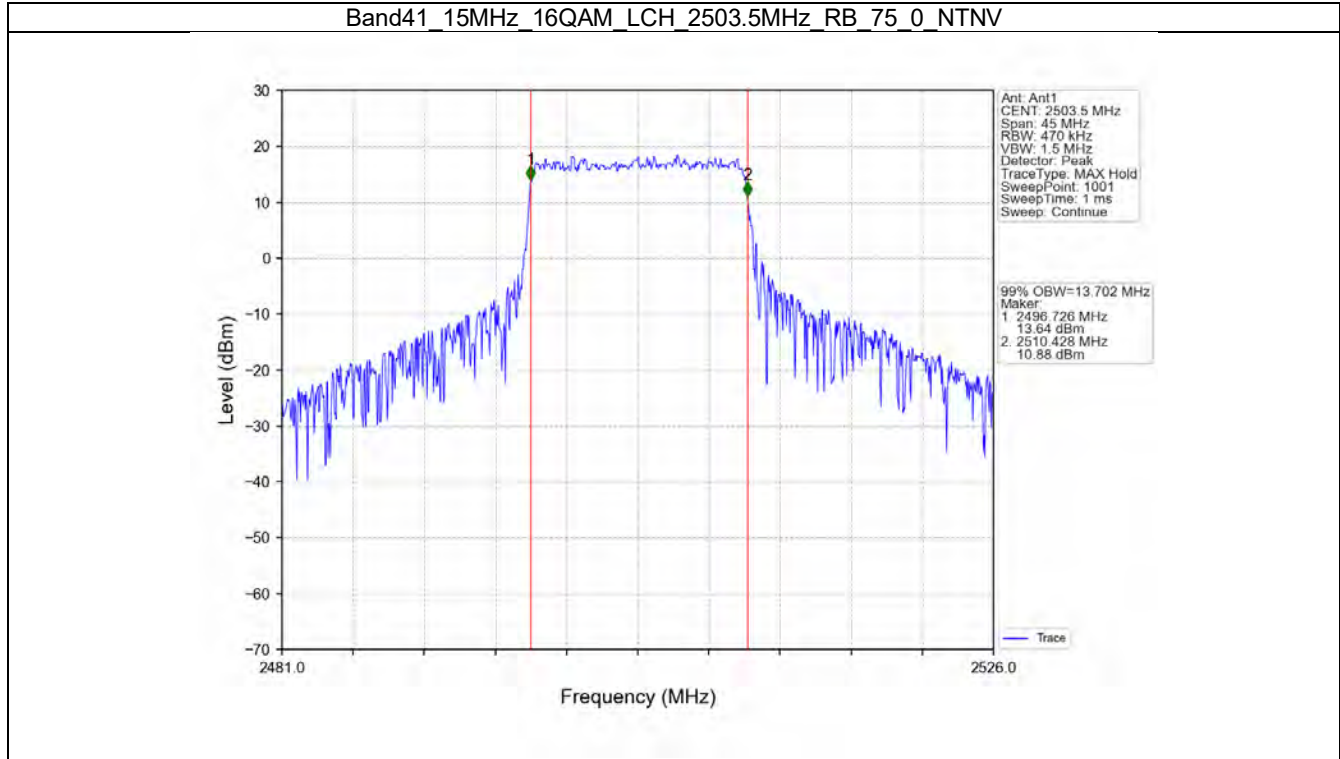
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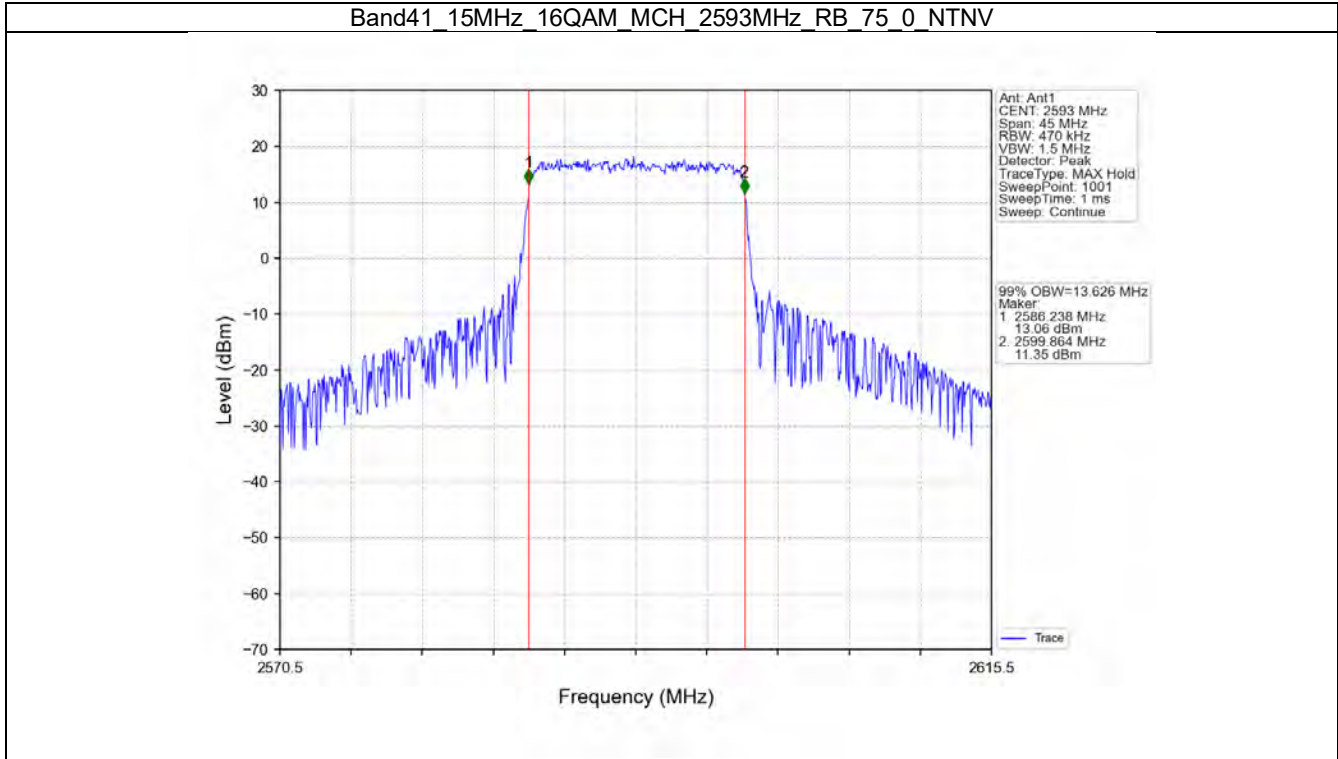
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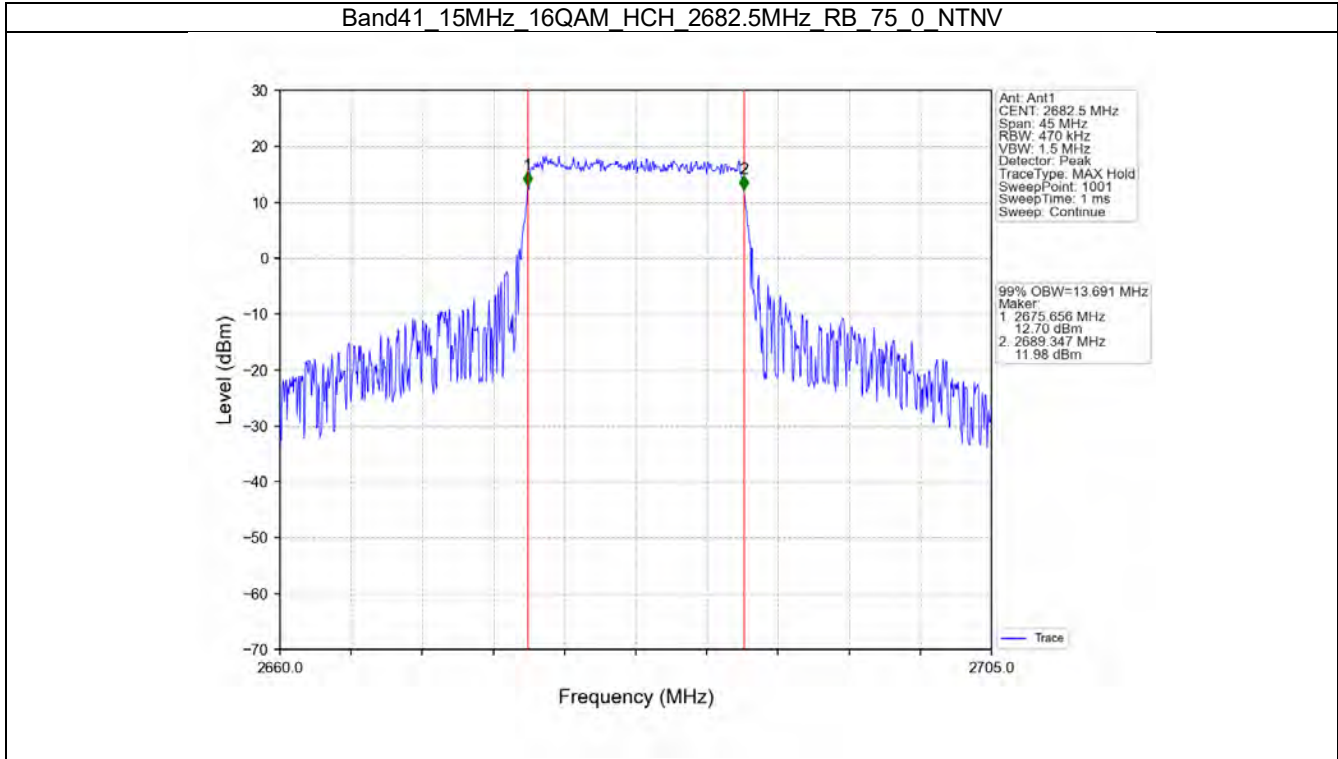
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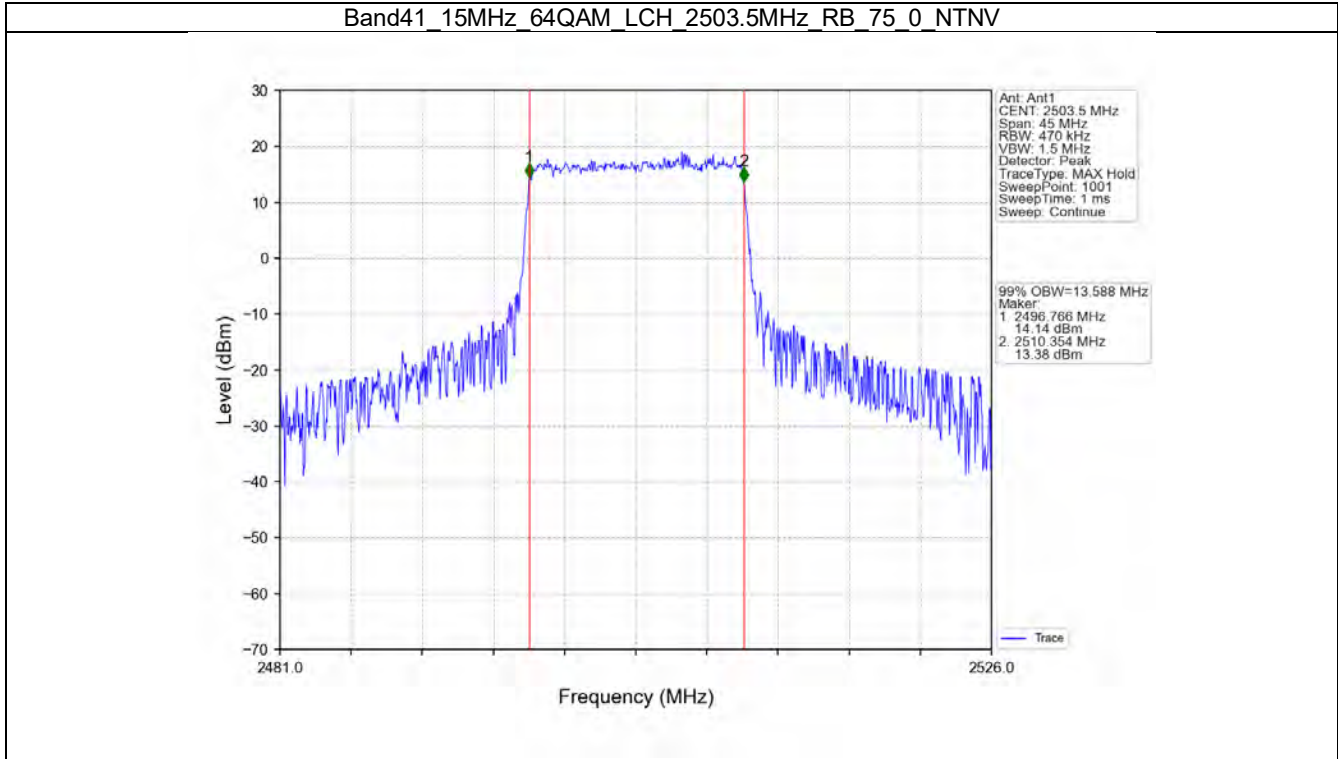
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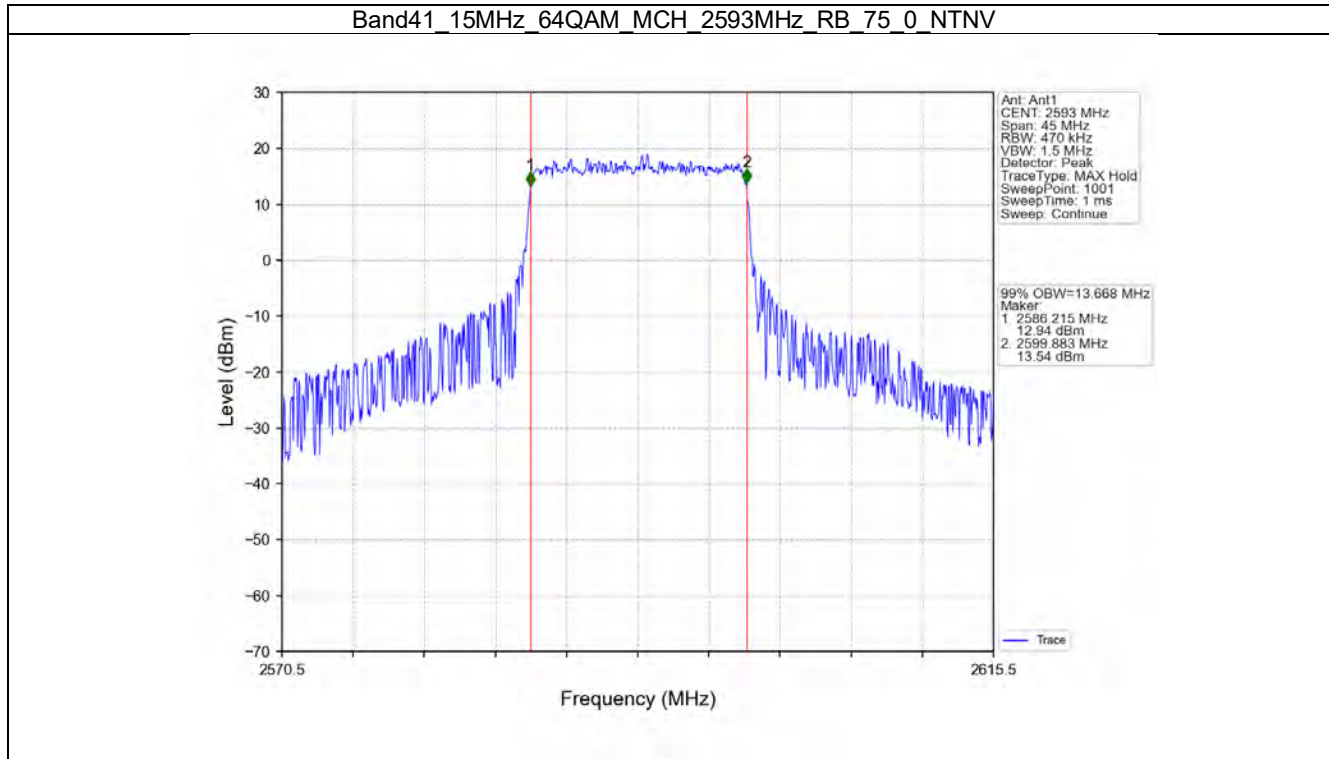


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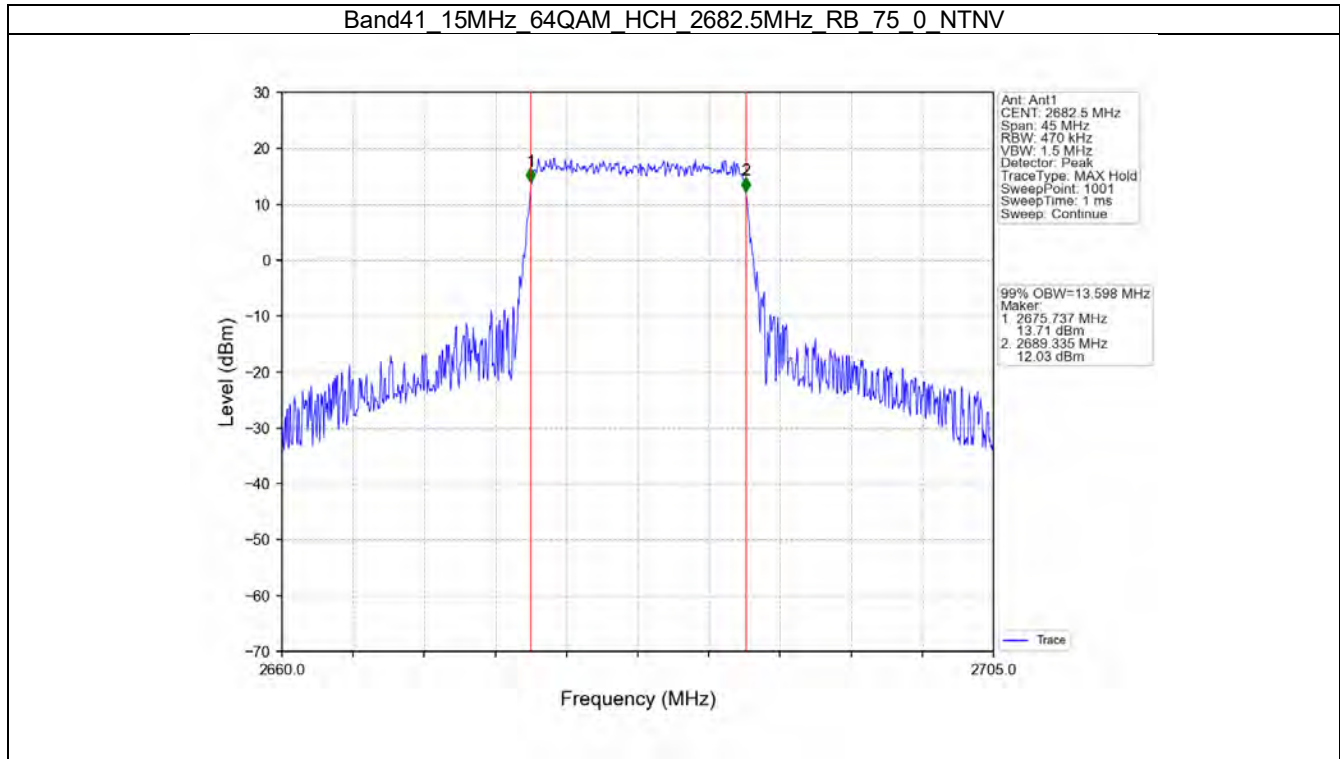
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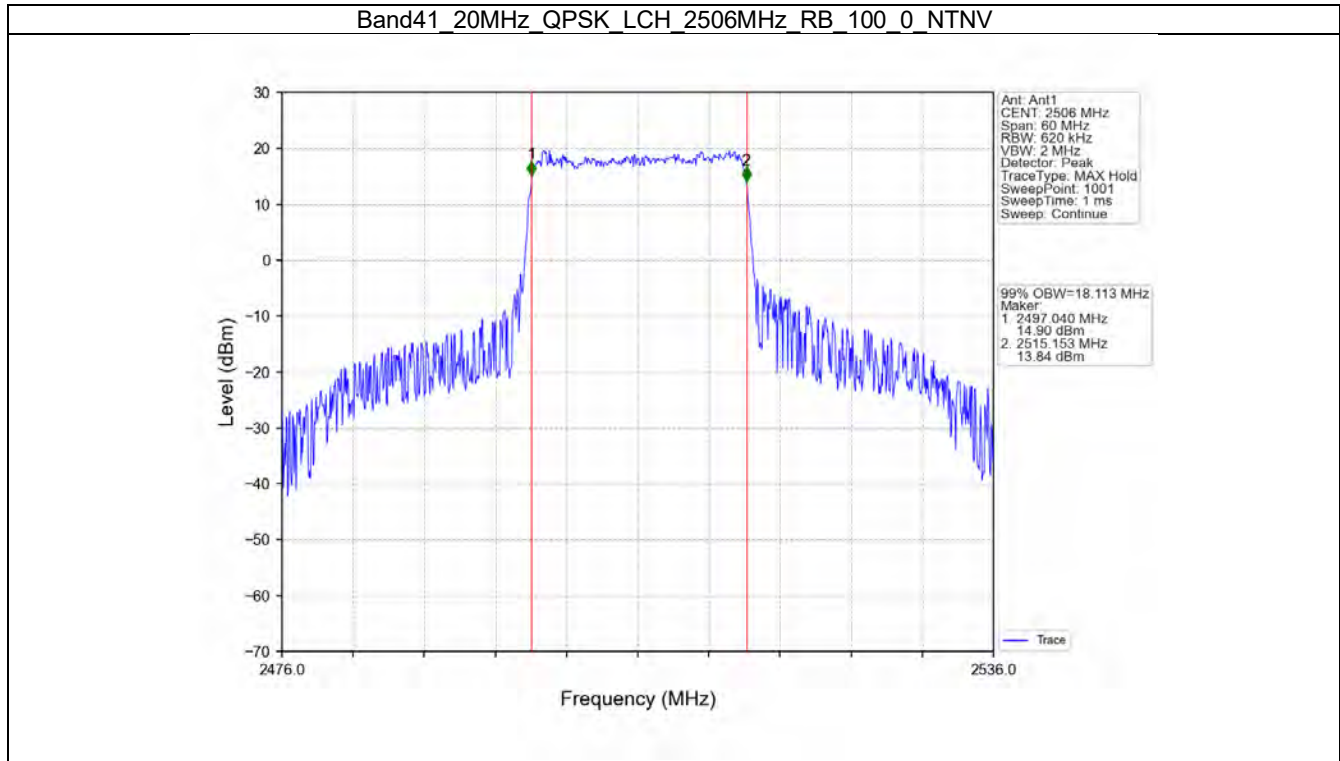
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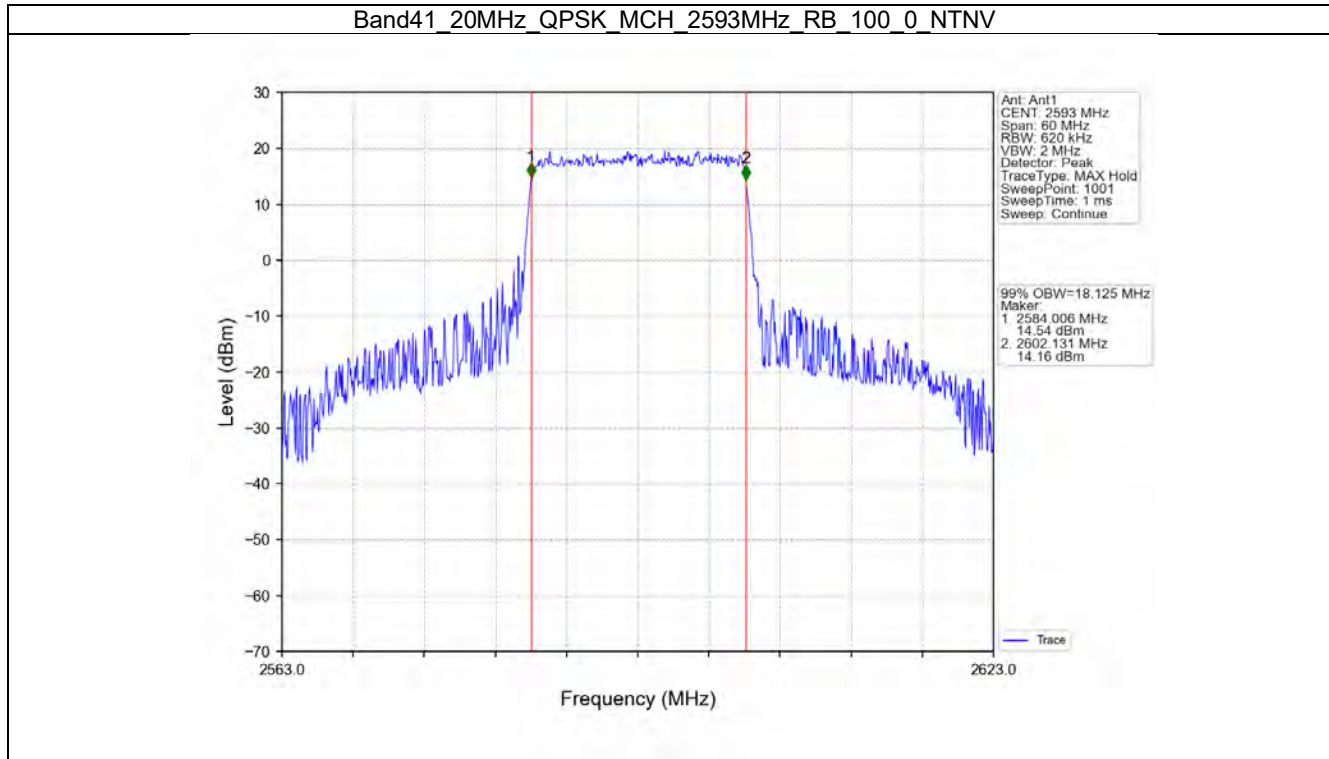


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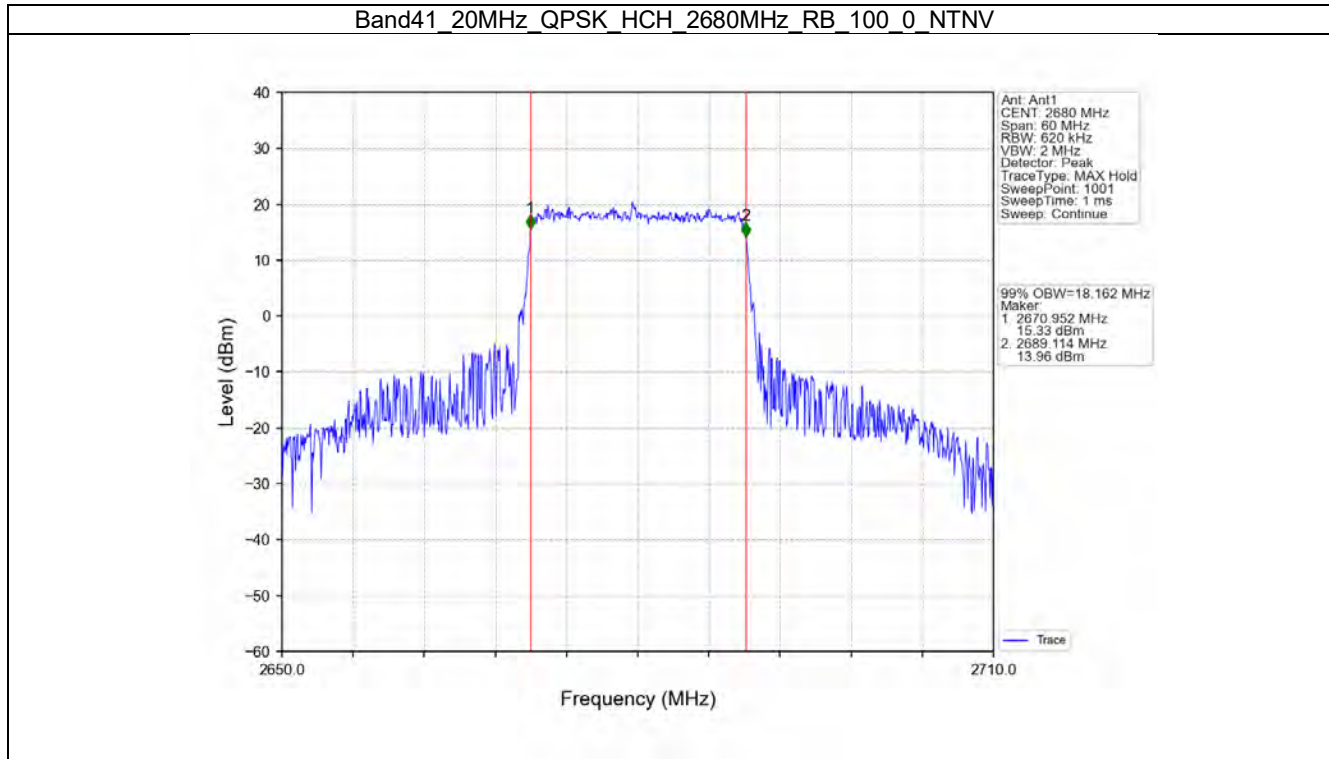


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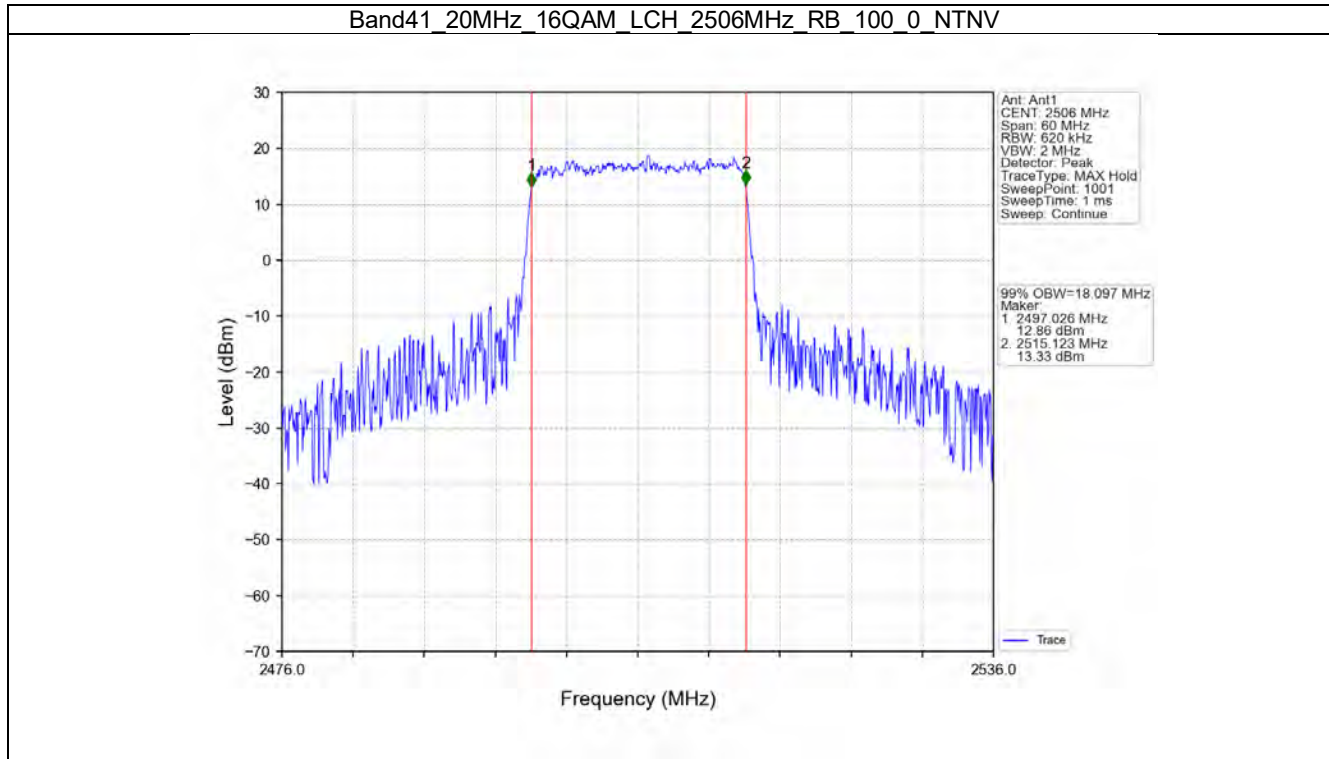


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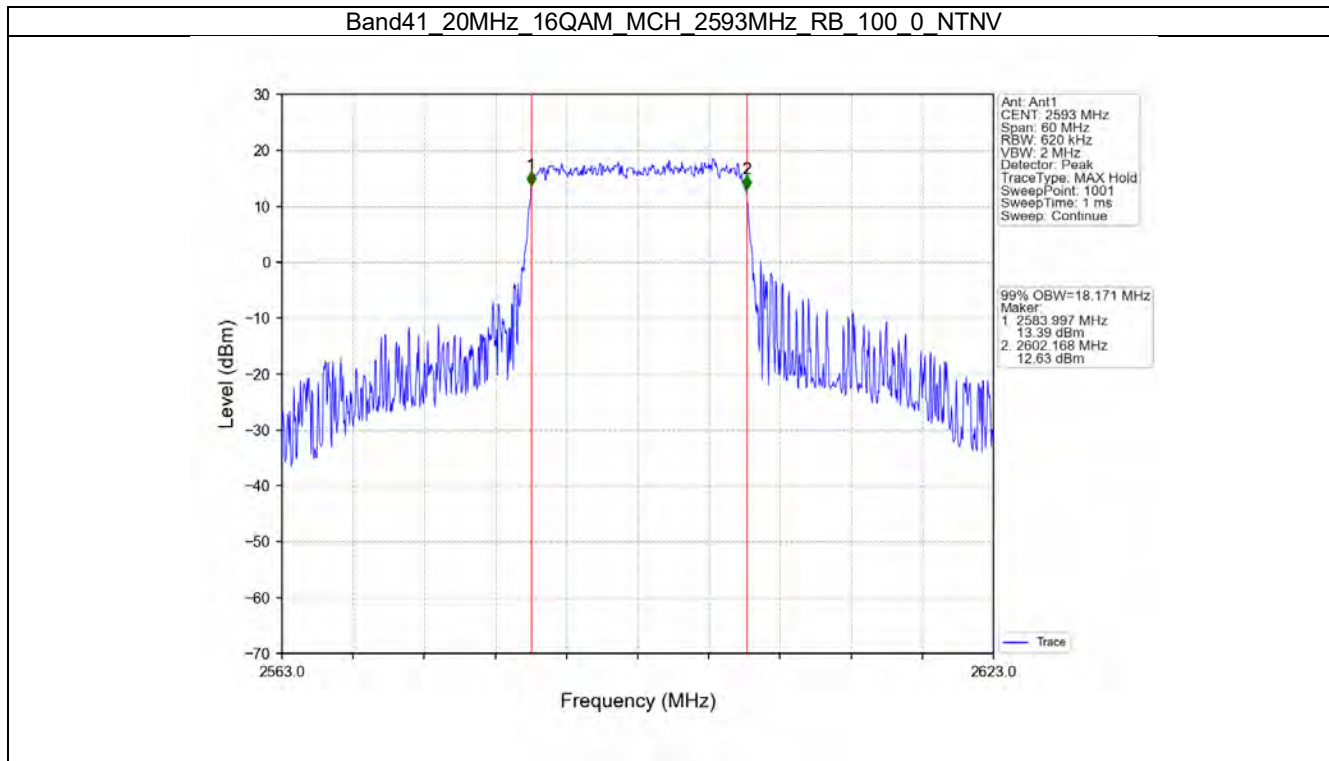


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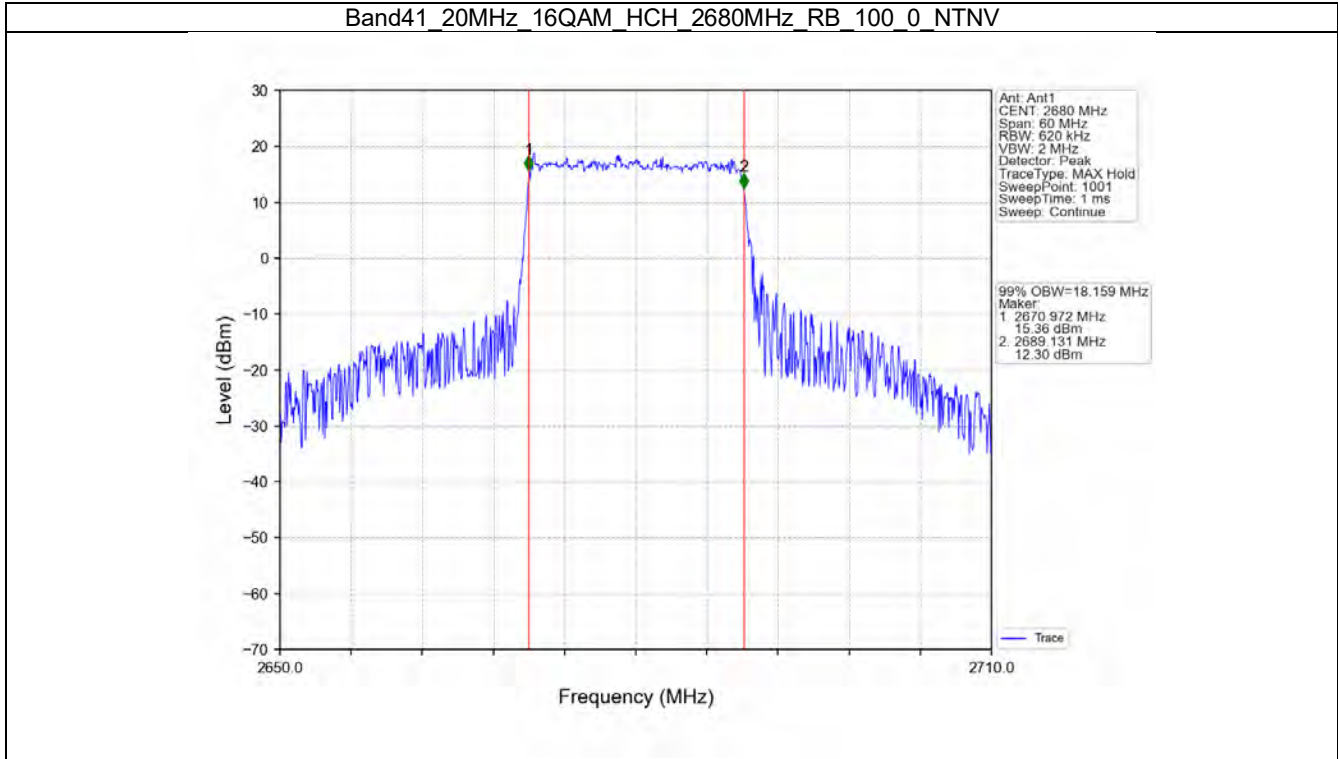
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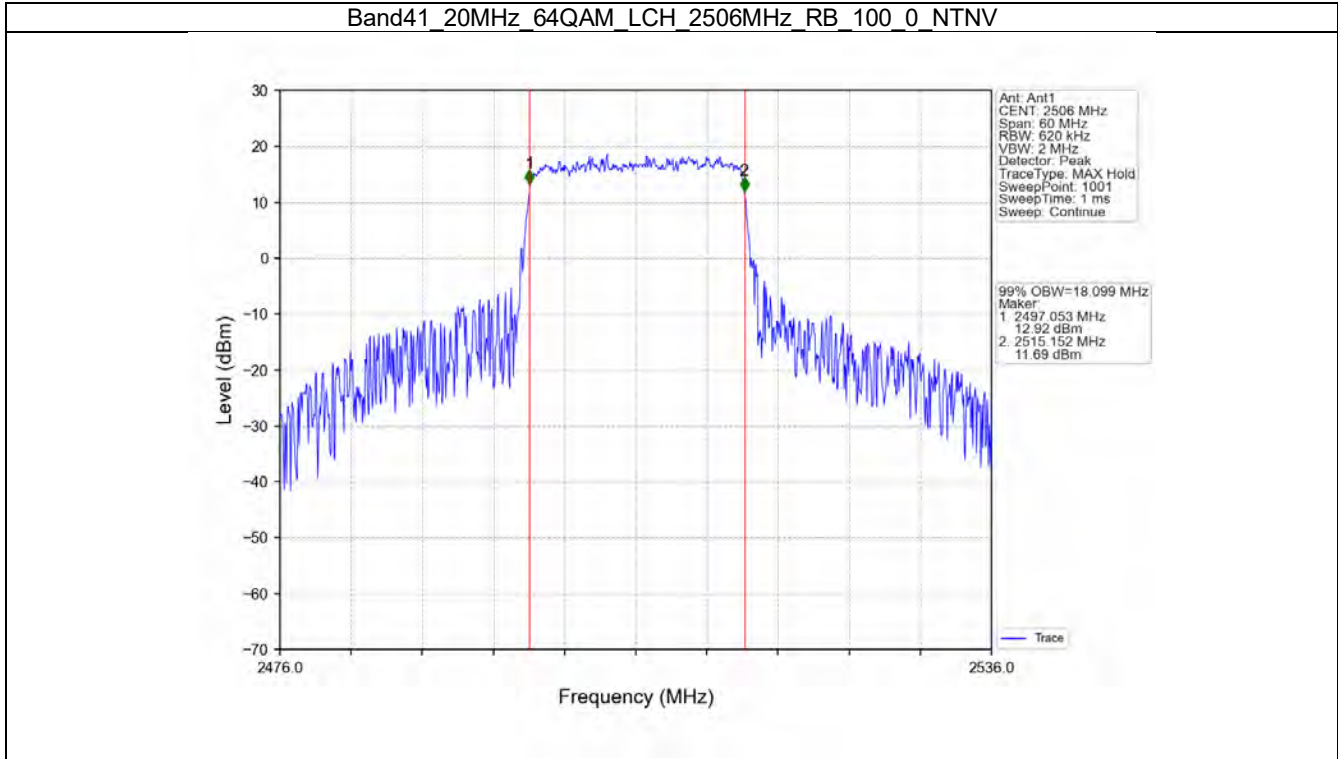
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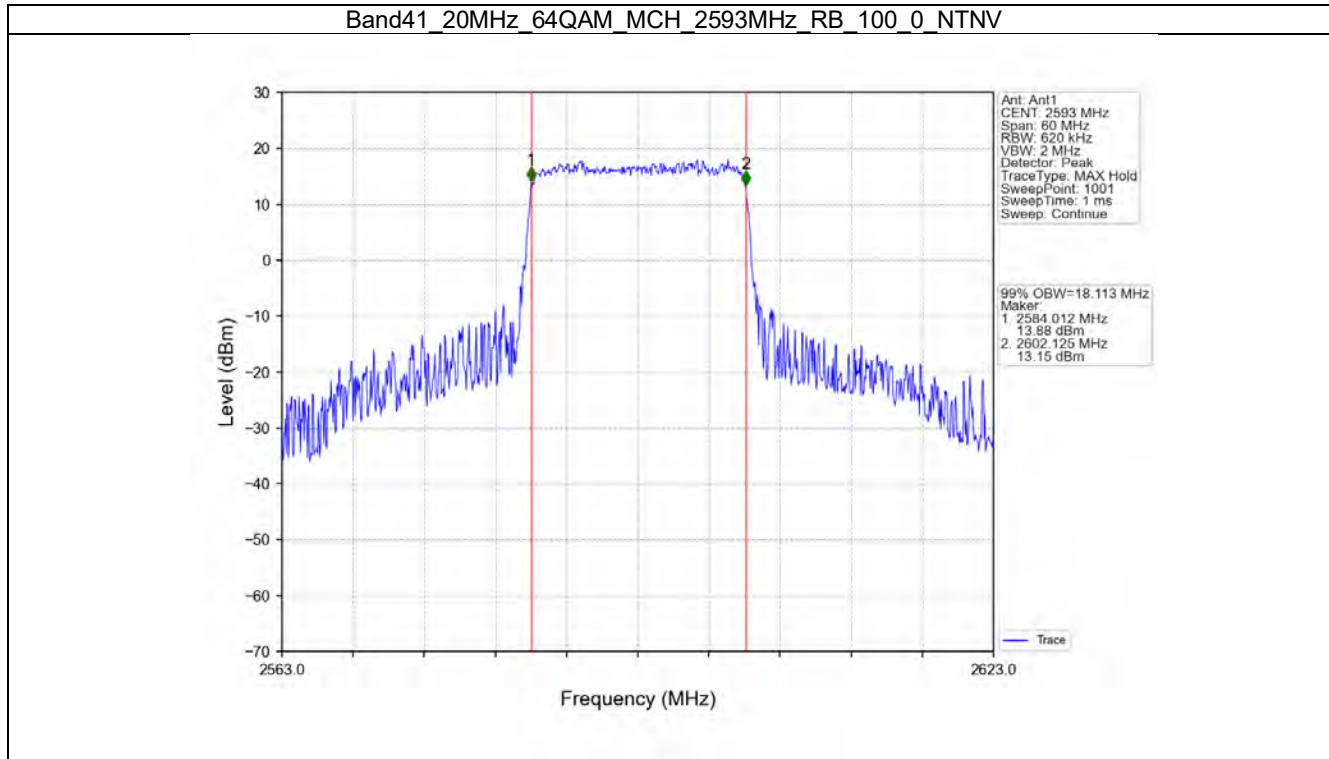


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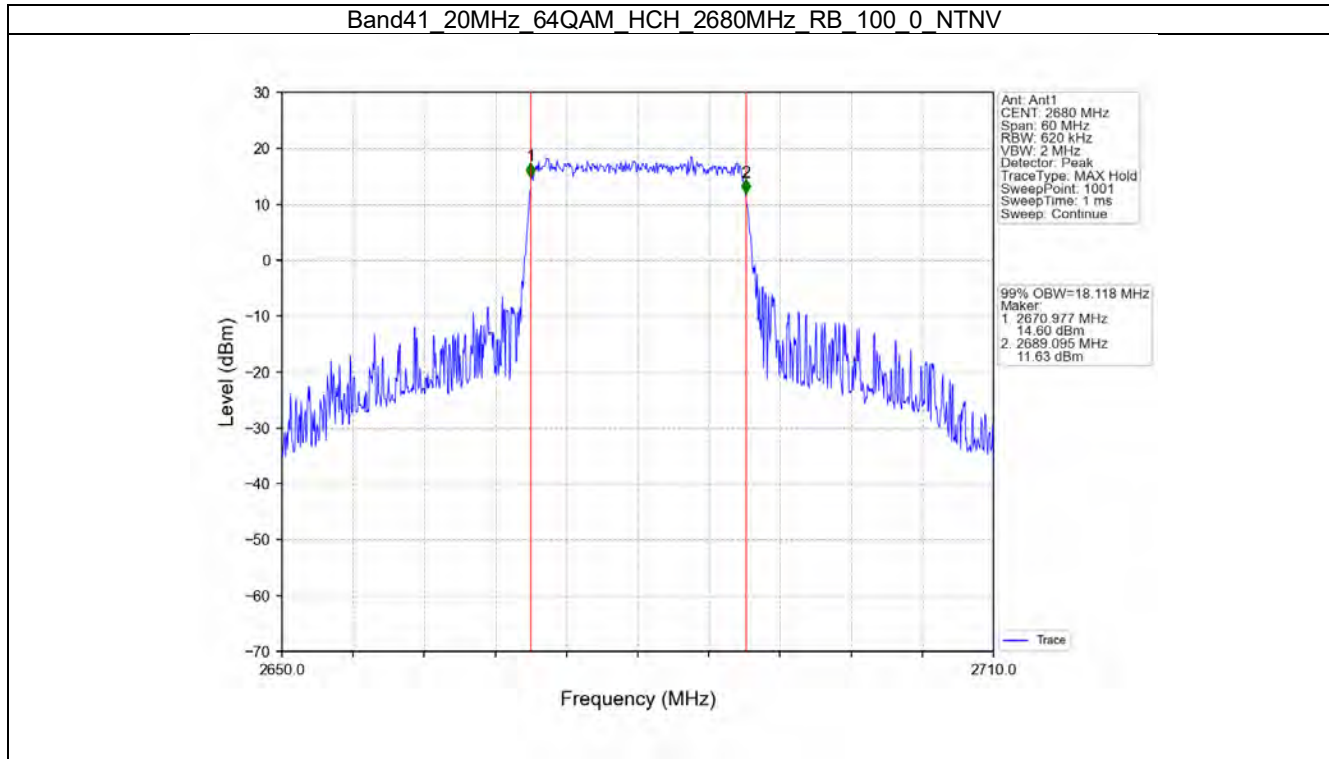


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3.2 Band41_XDB

3.2.1 Test Result

Band: 41 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2498.5	25	0	5.052	/	Pass
		2593	25	0	5.571	/	Pass
		2687.5	25	0	5.289	/	Pass
	16QAM	2498.5	25	0	5.298	/	Pass
		2593	25	0	5.301	/	Pass
		2687.5	25	0	5.428	/	Pass
	64QAM	2498.5	25	0	5.851	/	Pass
		2593	25	0	5.260	/	Pass
		2687.5	25	0	5.684	/	Pass
10	QPSK	2501	50	0	10.499	/	Pass
		2593	50	0	11.186	/	Pass
		2685	50	0	11.544	/	Pass
	16QAM	2501	50	0	11.324	/	Pass
		2593	50	0	10.262	/	Pass
		2685	50	0	10.479	/	Pass
	64QAM	2501	50	0	10.036	/	Pass
		2593	50	0	10.766	/	Pass
		2685	50	0	10.456	/	Pass
15	QPSK	2503.5	75	0	16.352	/	Pass
		2593	75	0	19.408	/	Pass
		2682.5	75	0	16.488	/	Pass
	16QAM	2503.5	75	0	18.463	/	Pass
		2593	75	0	17.514	/	Pass
		2682.5	75	0	19.419	/	Pass
	64QAM	2503.5	75	0	15.513	/	Pass
		2593	75	0	17.117	/	Pass
		2682.5	75	0	15.599	/	Pass
20	QPSK	2506	100	0	21.913	/	Pass
		2593	100	0	22.012	/	Pass
		2680	100	0	22.528	/	Pass
	16QAM	2506	100	0	20.958	/	Pass
		2593	100	0	26.628	/	Pass
		2680	100	0	21.749	/	Pass
	64QAM	2506	100	0	23.960	/	Pass
		2593	100	0	20.082	/	Pass
		2680	100	0	22.950	/	Pass



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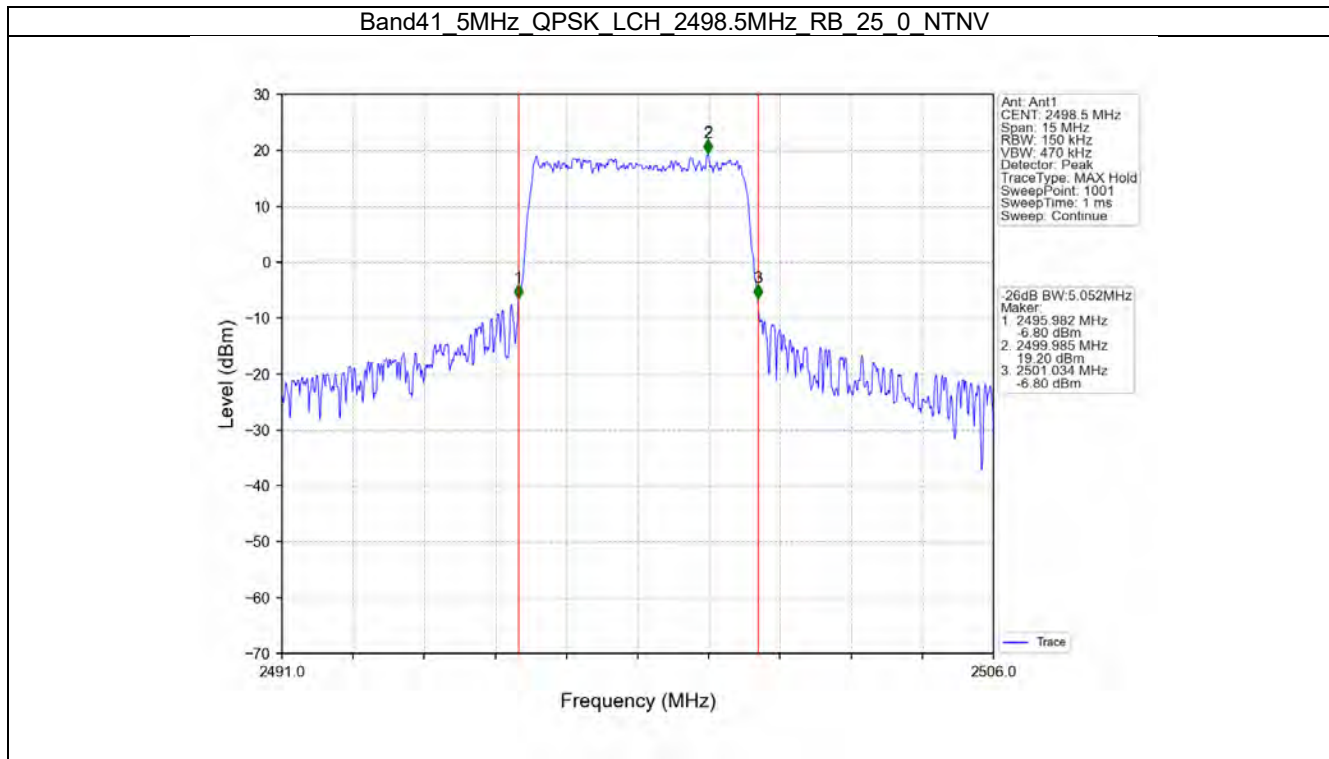
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3.2.2 Test Graph



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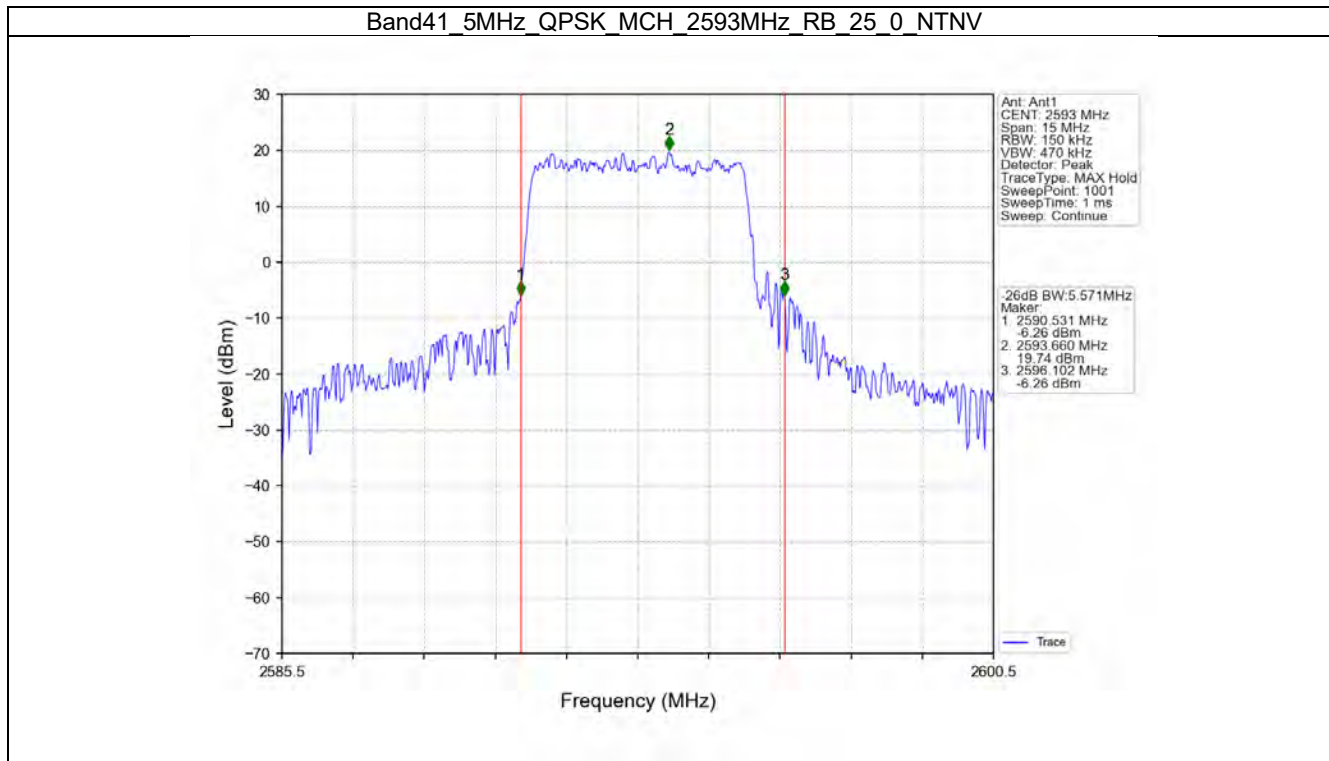


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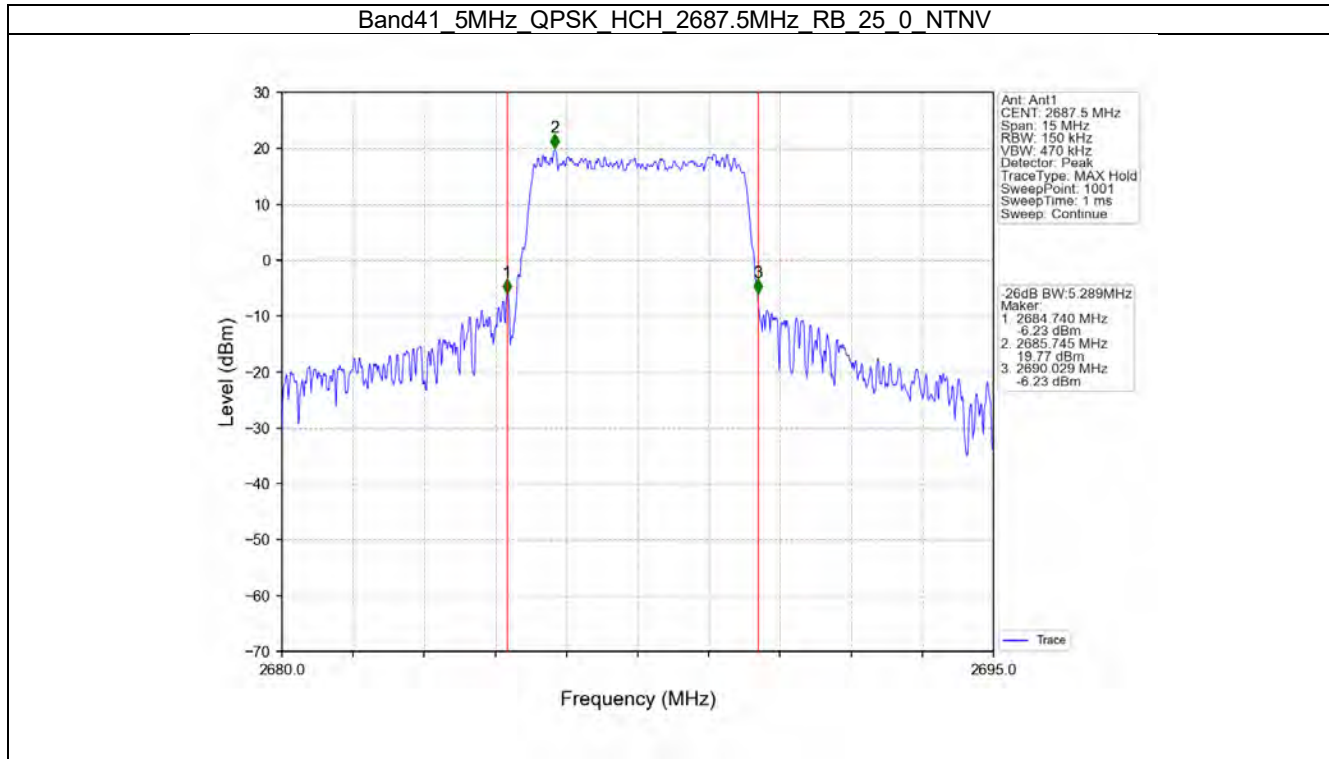


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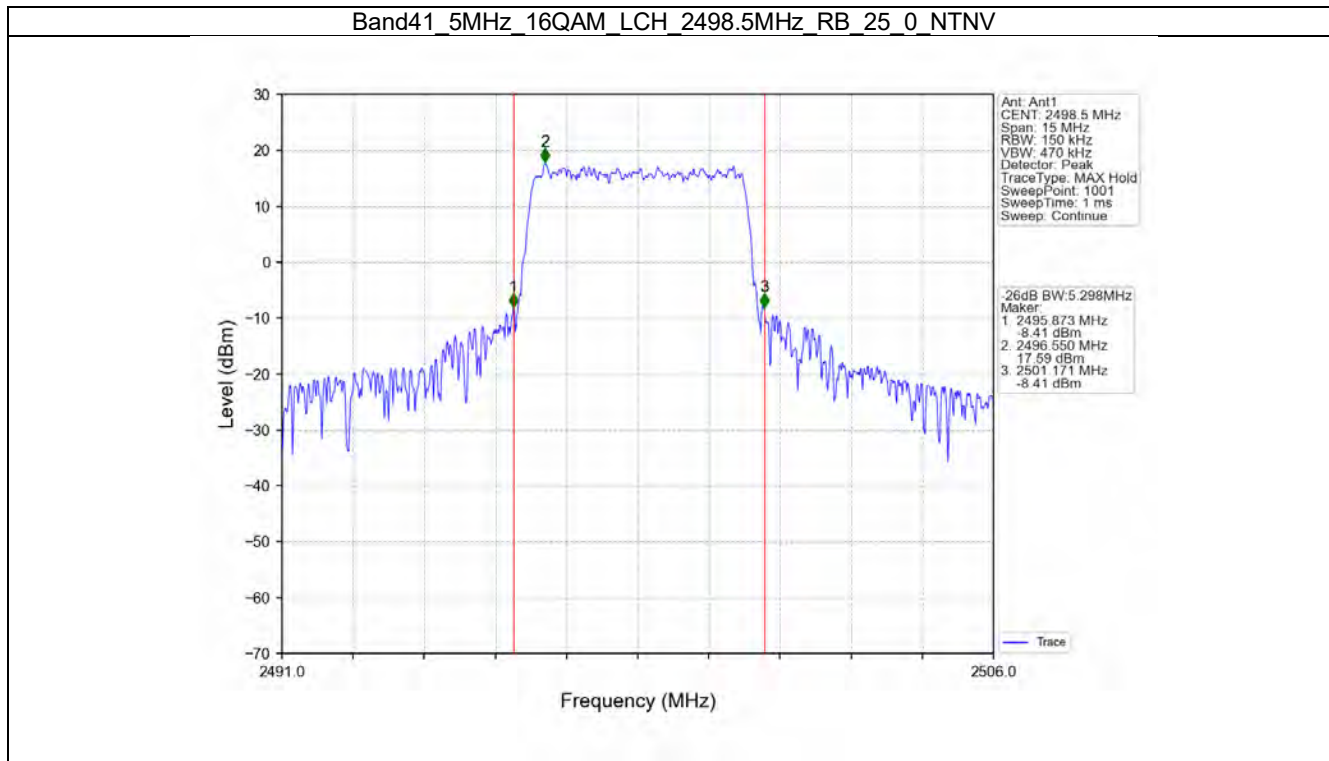


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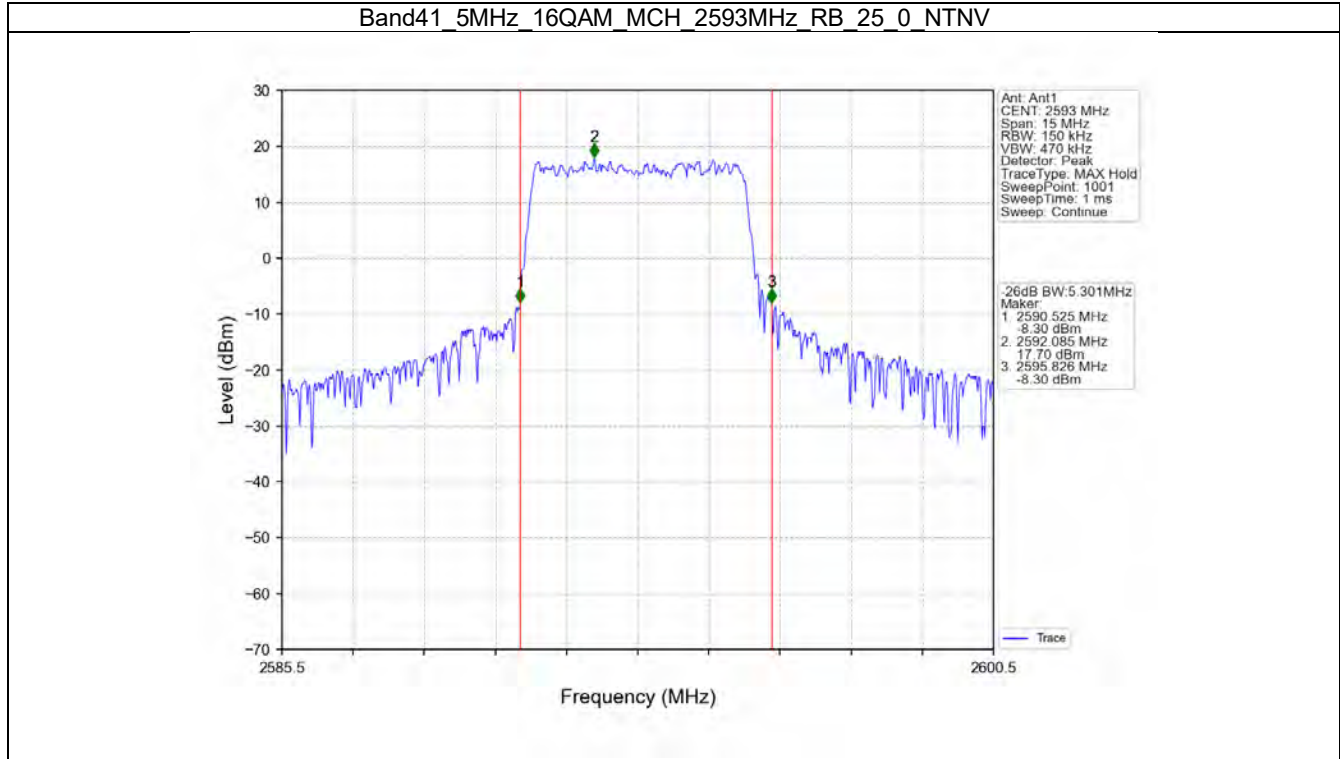
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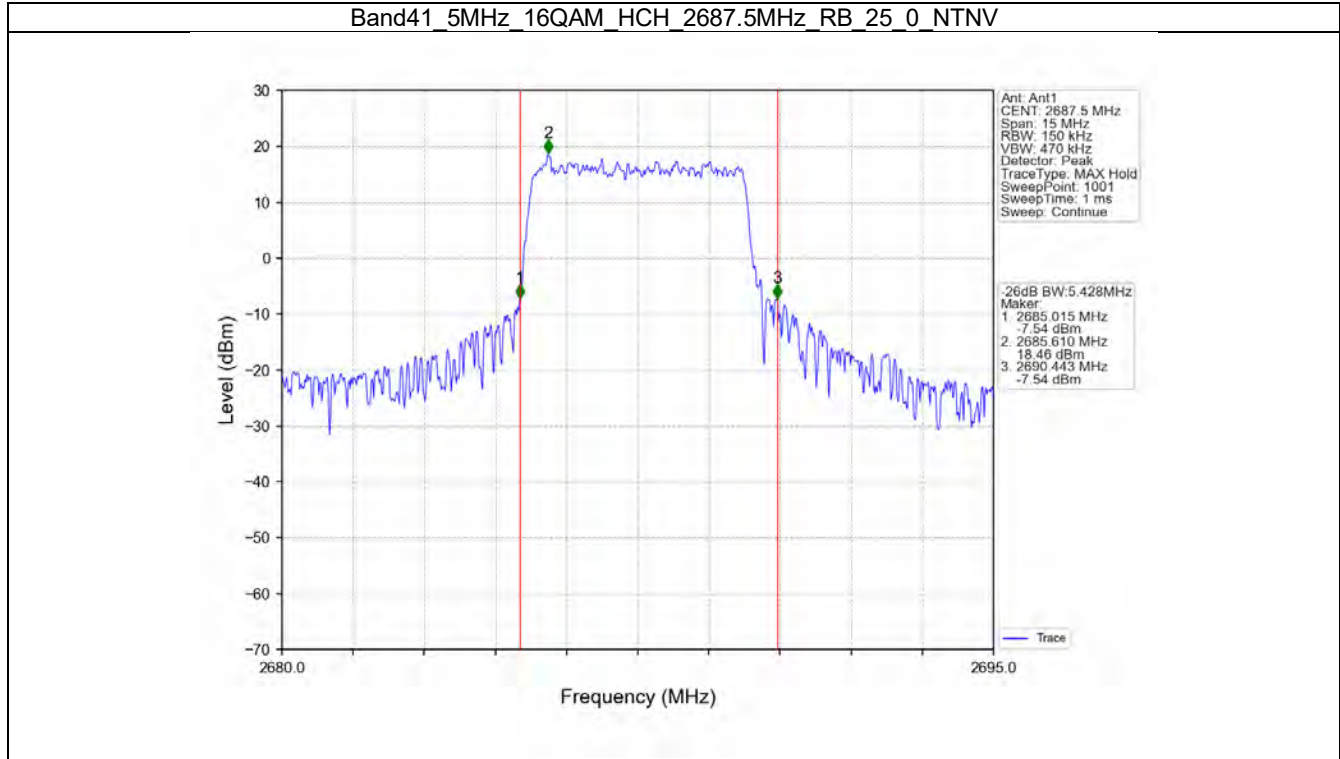
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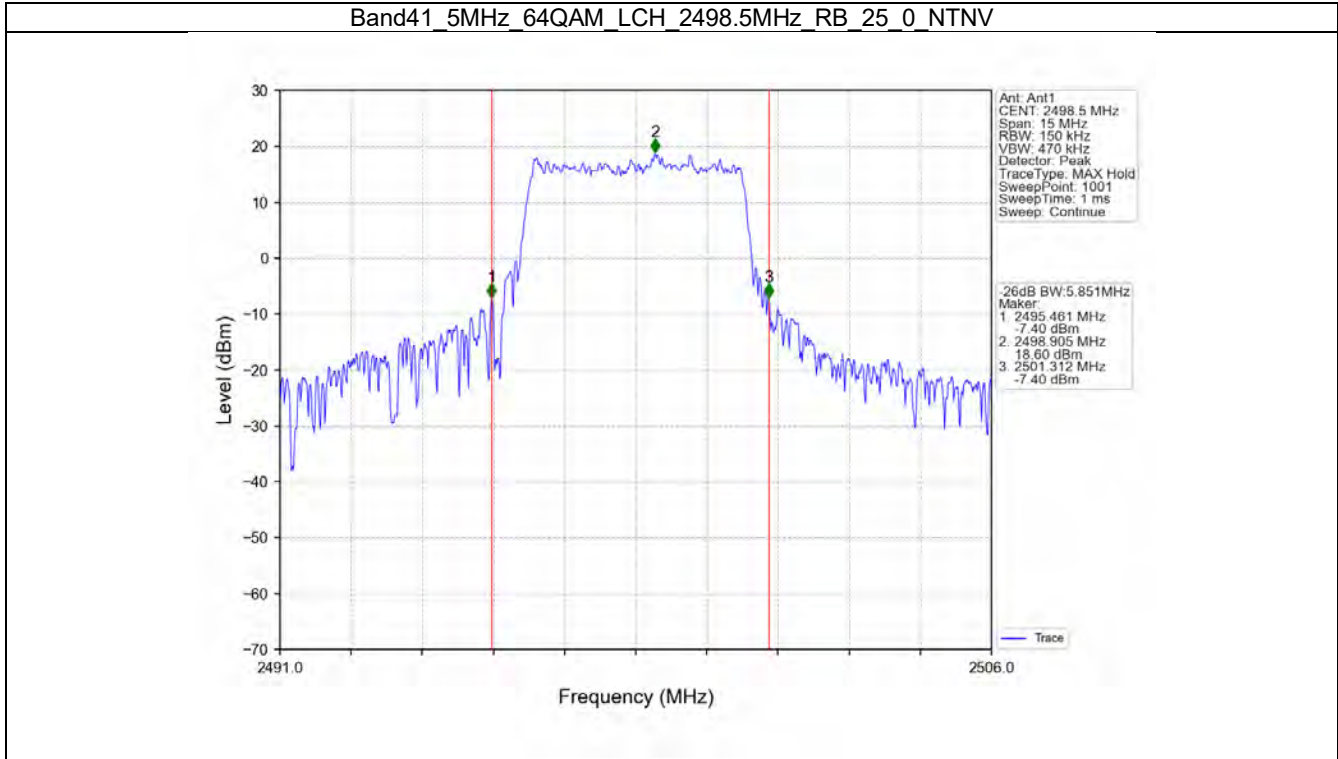
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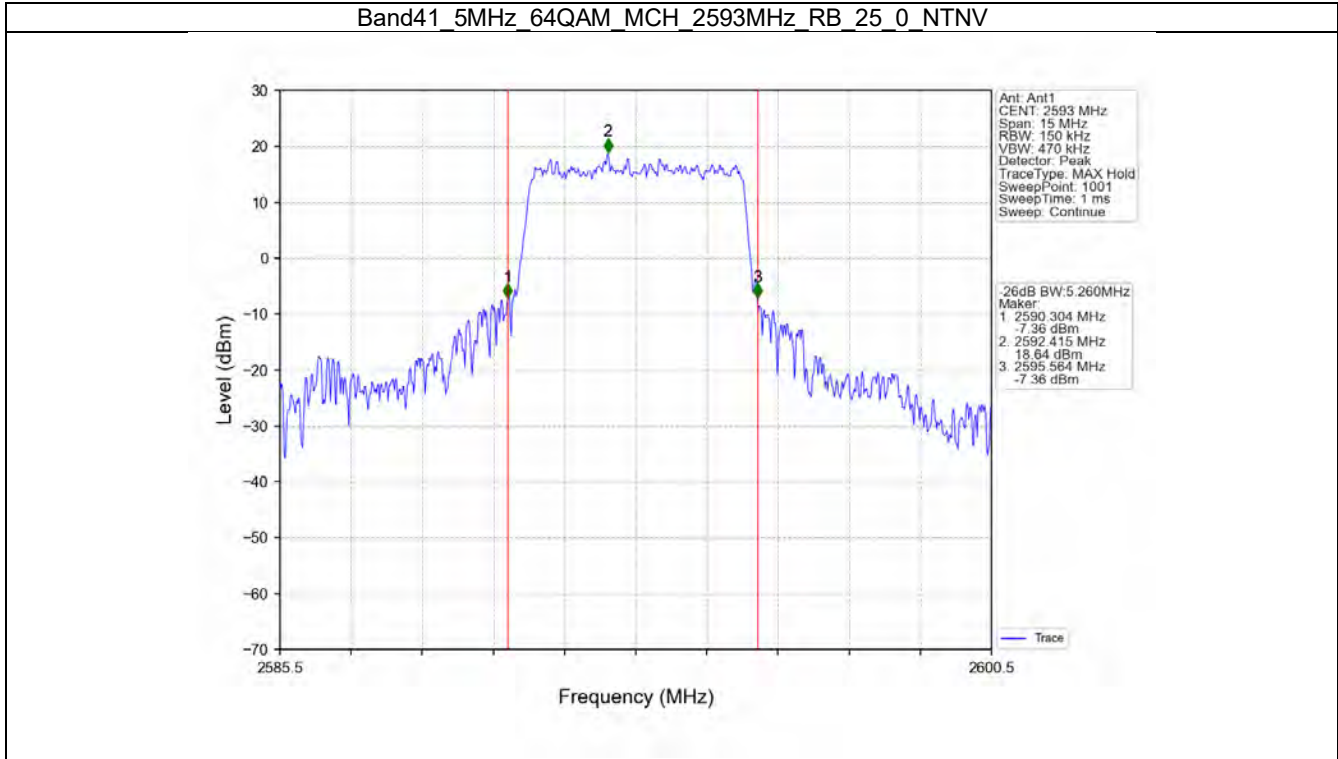
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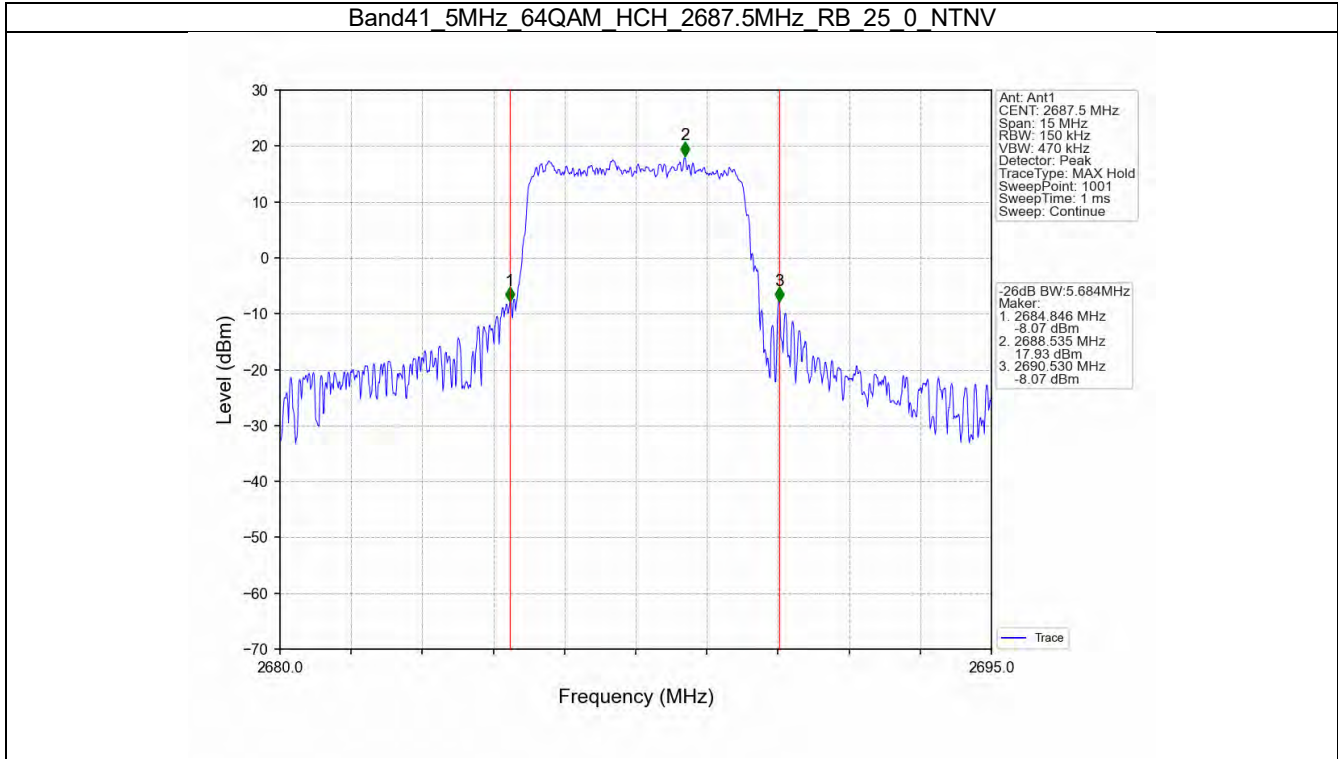
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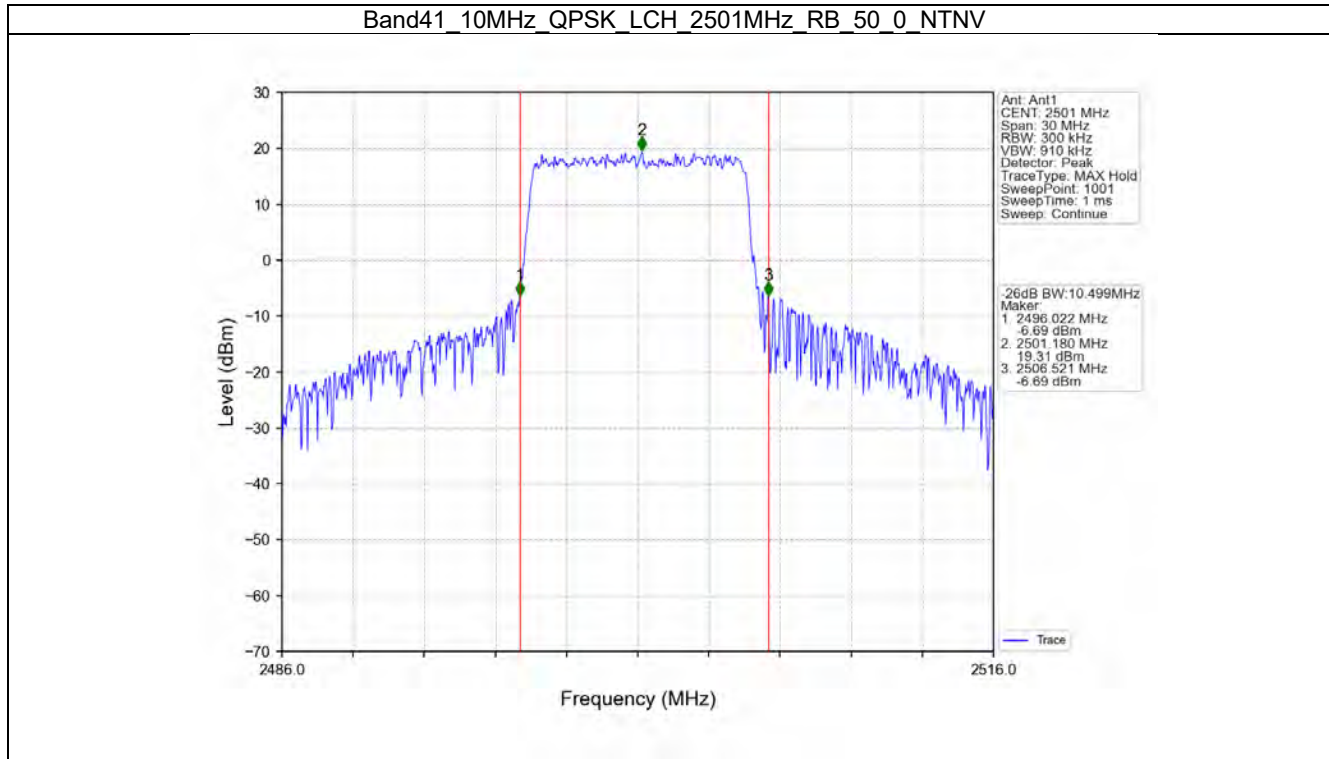


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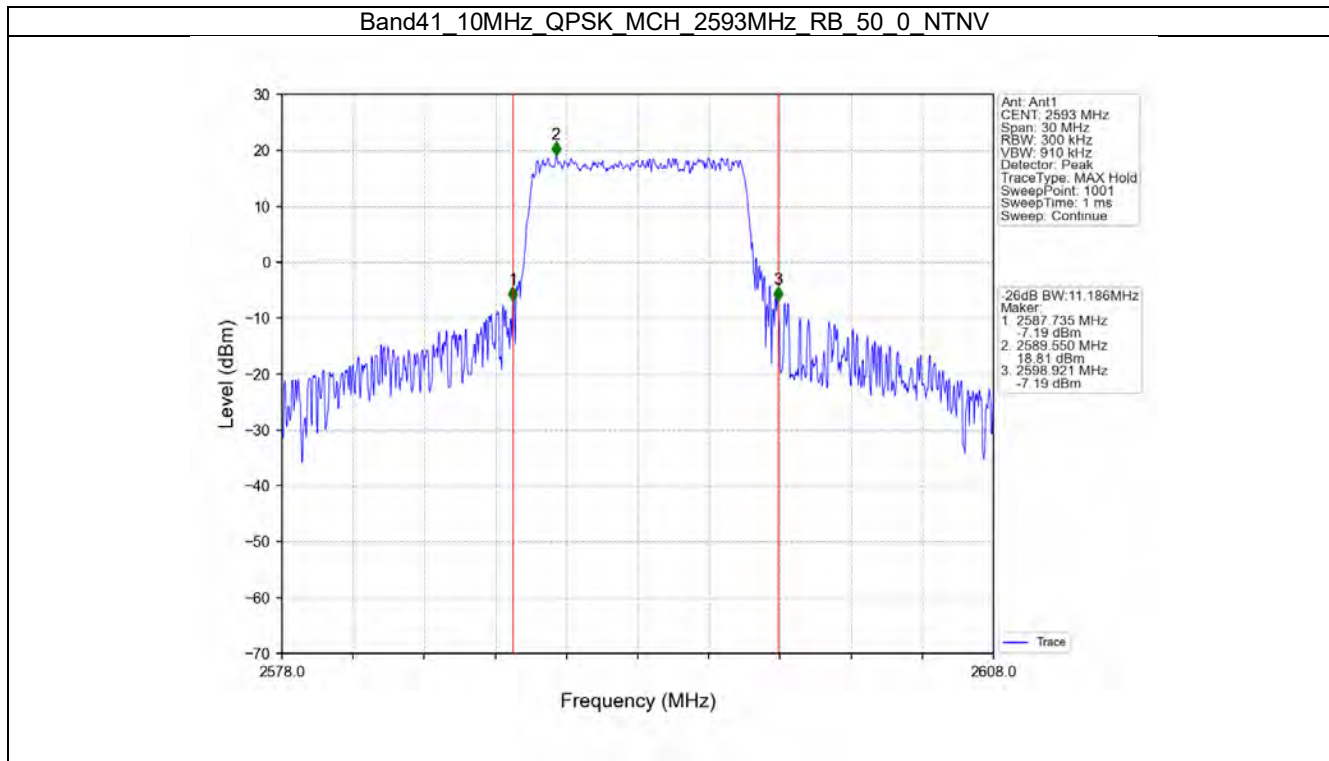


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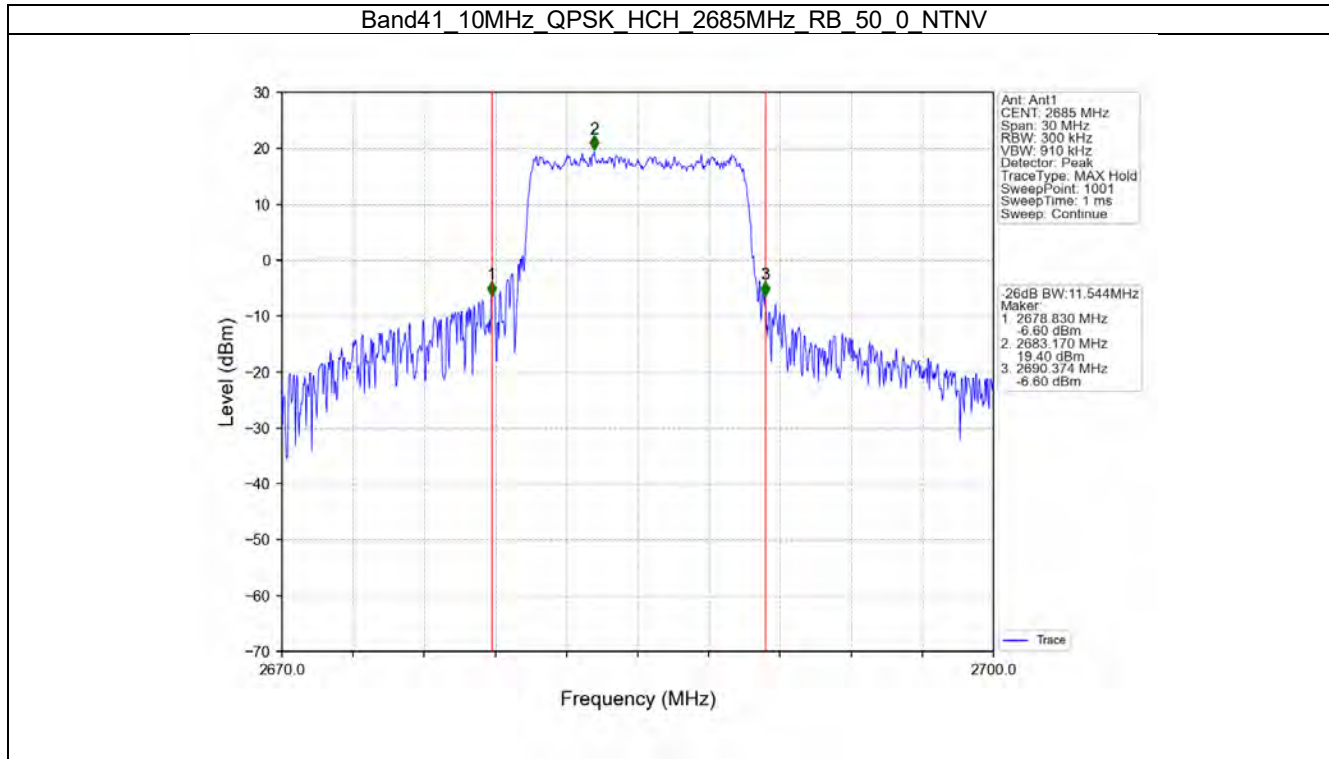


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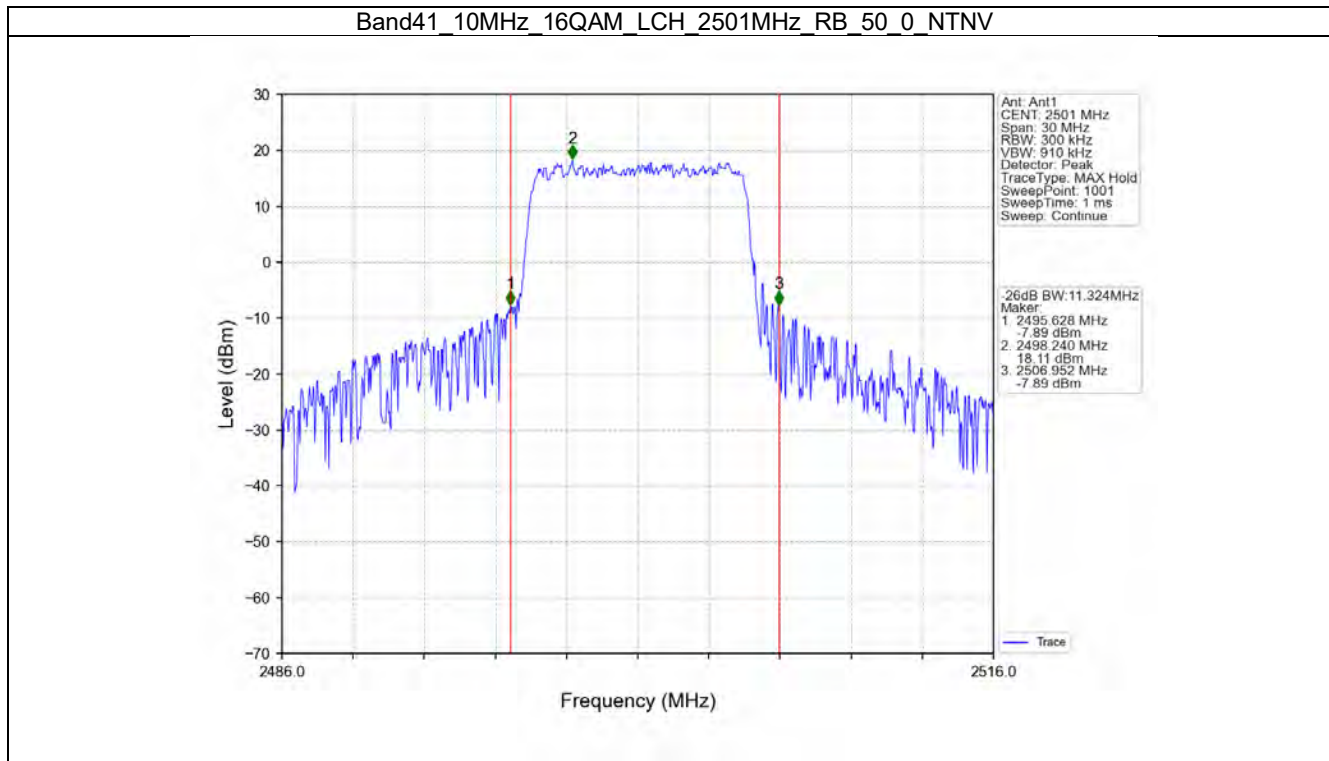


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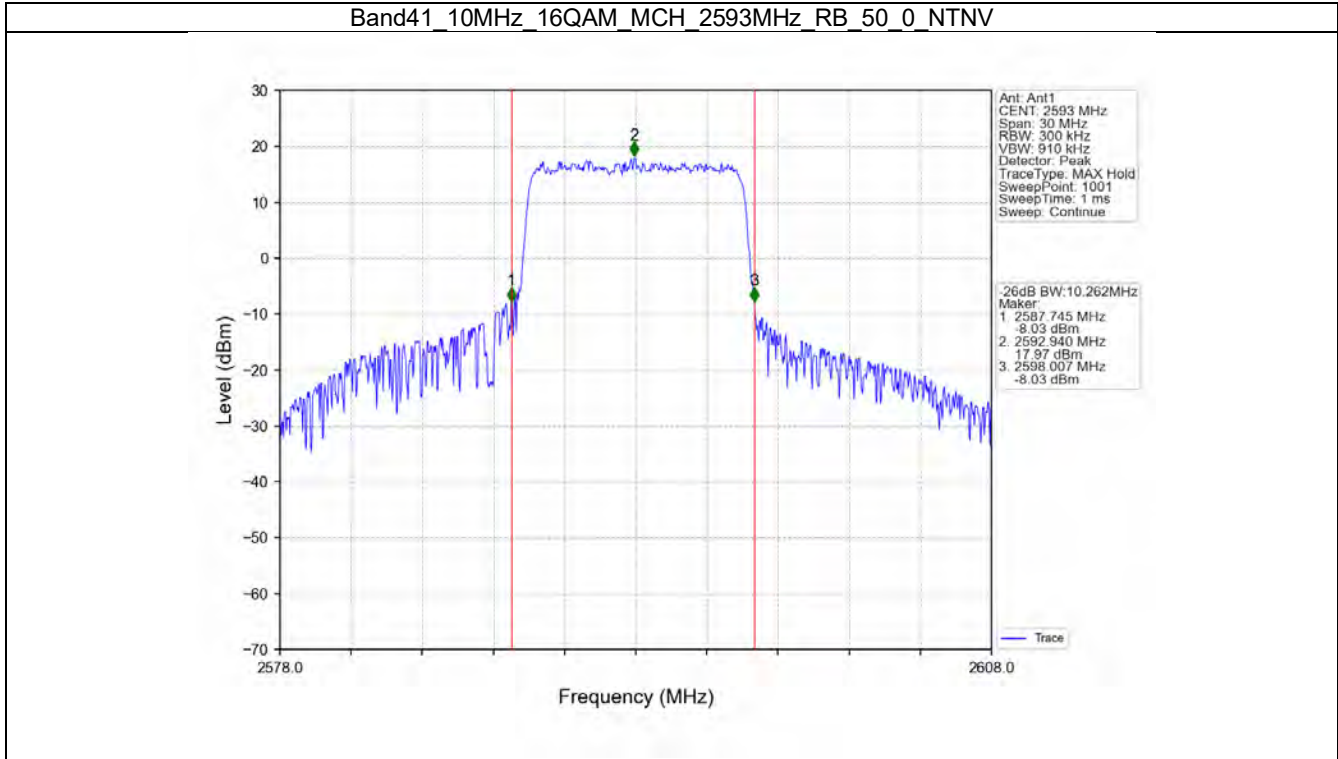
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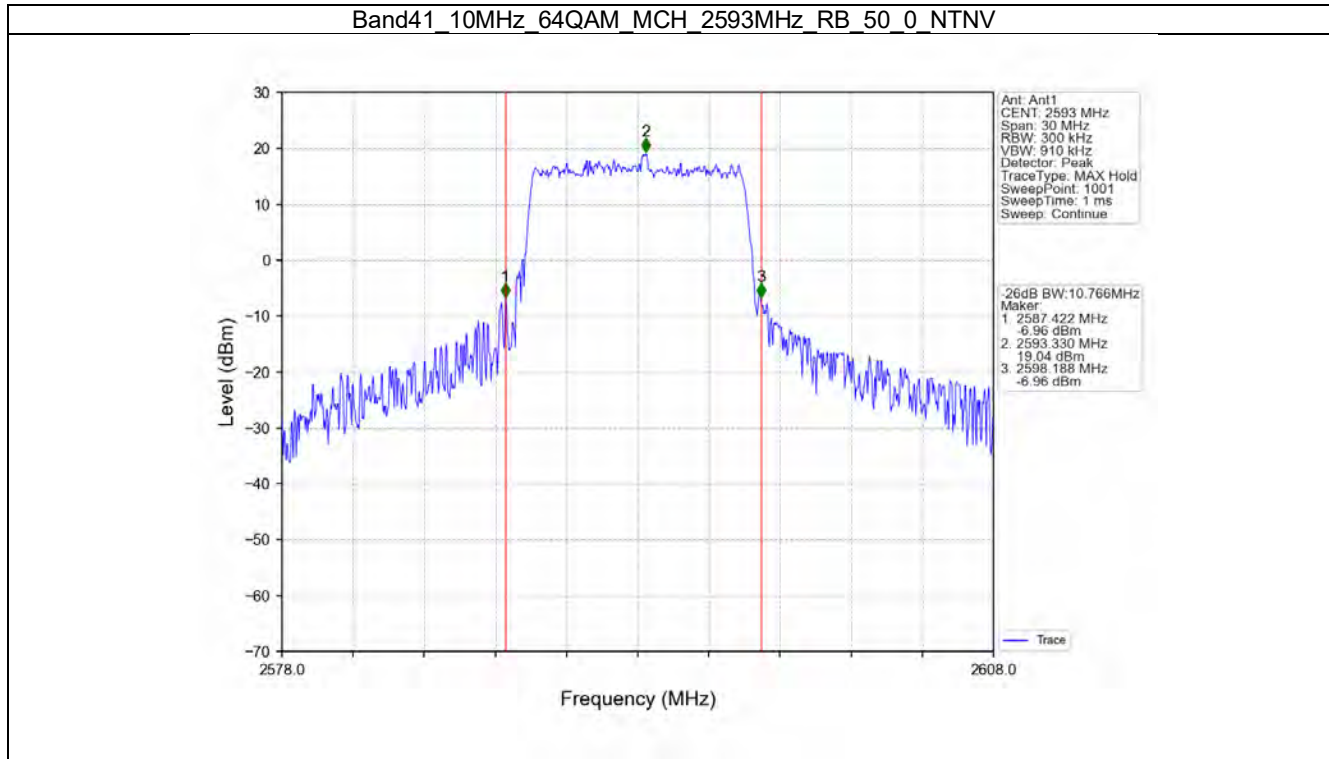


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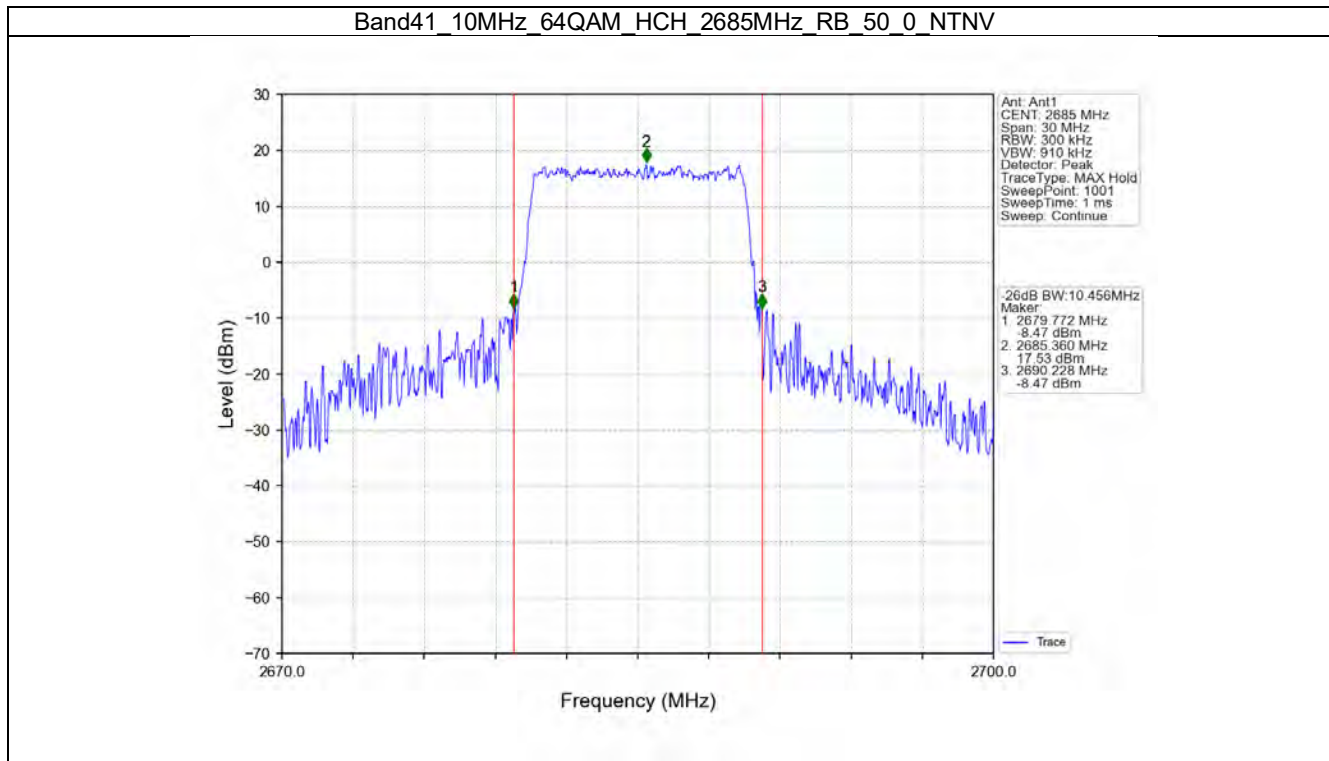


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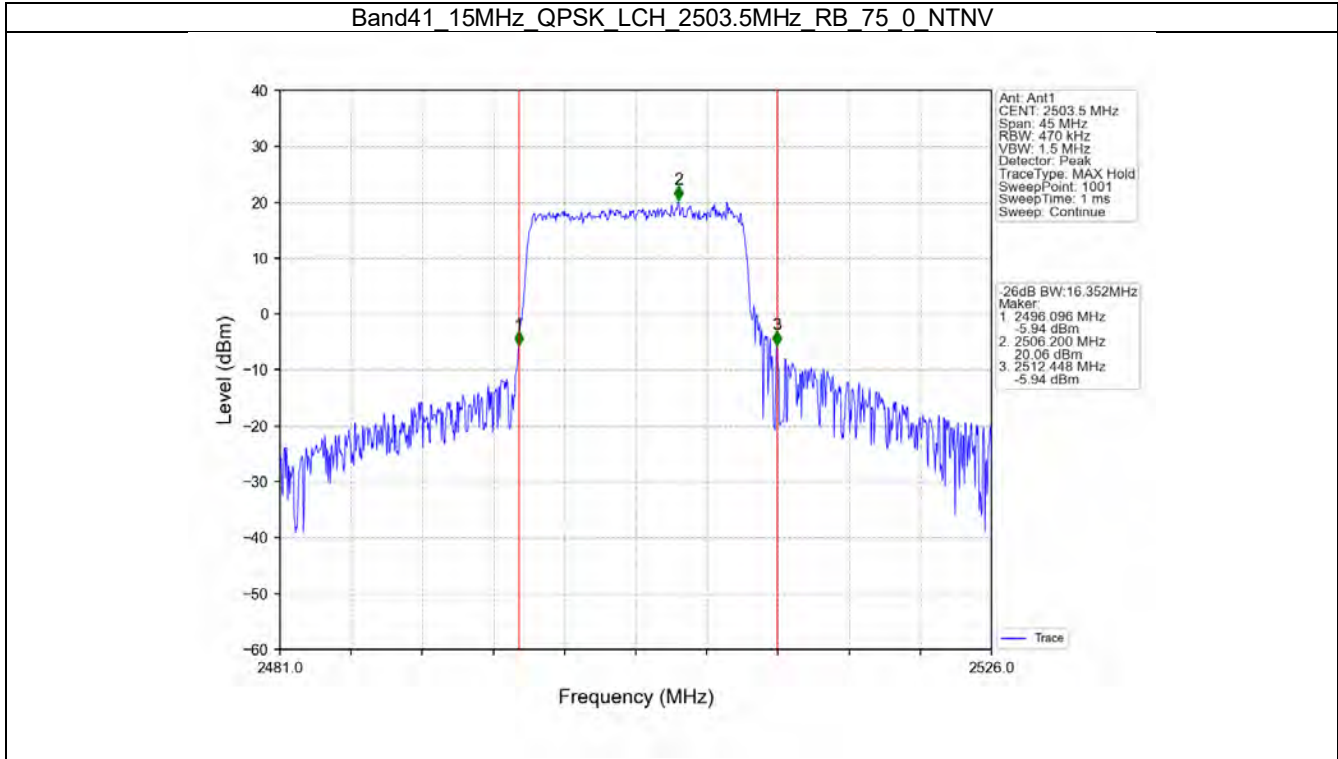
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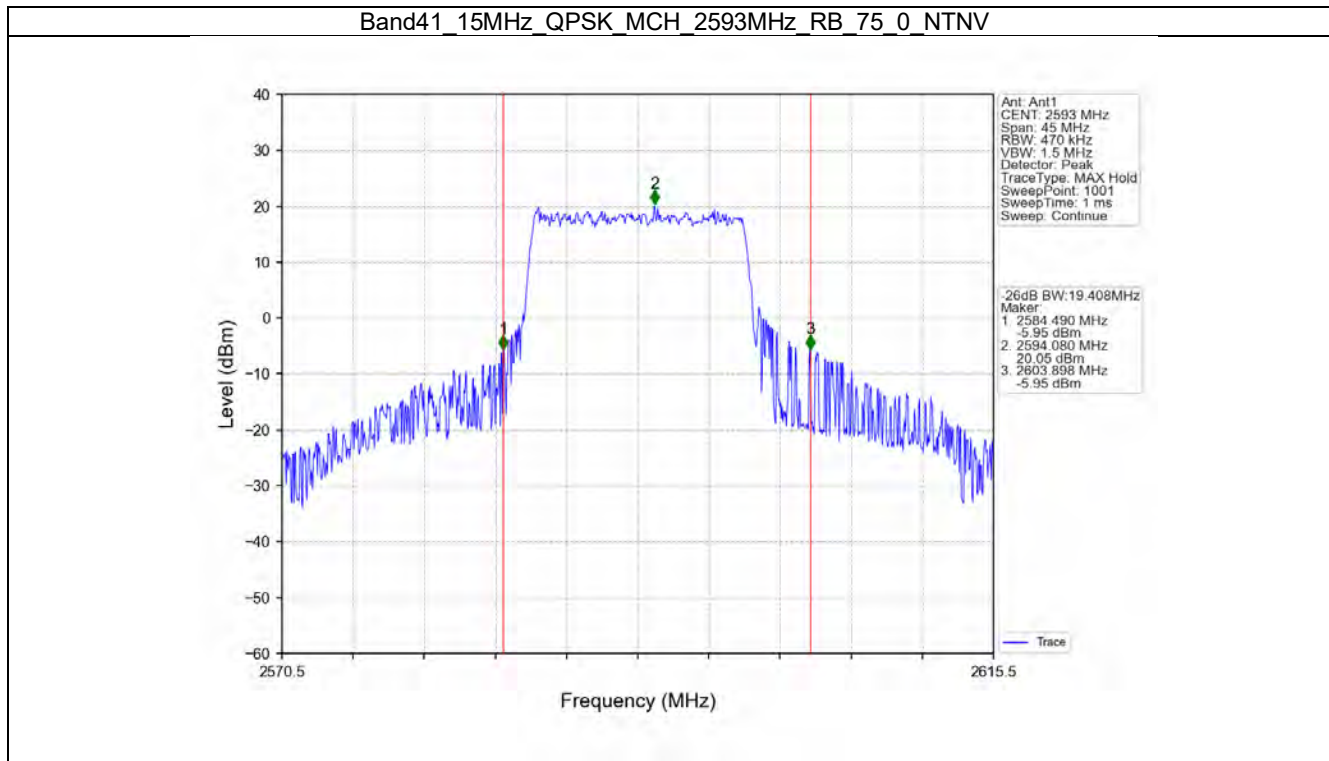


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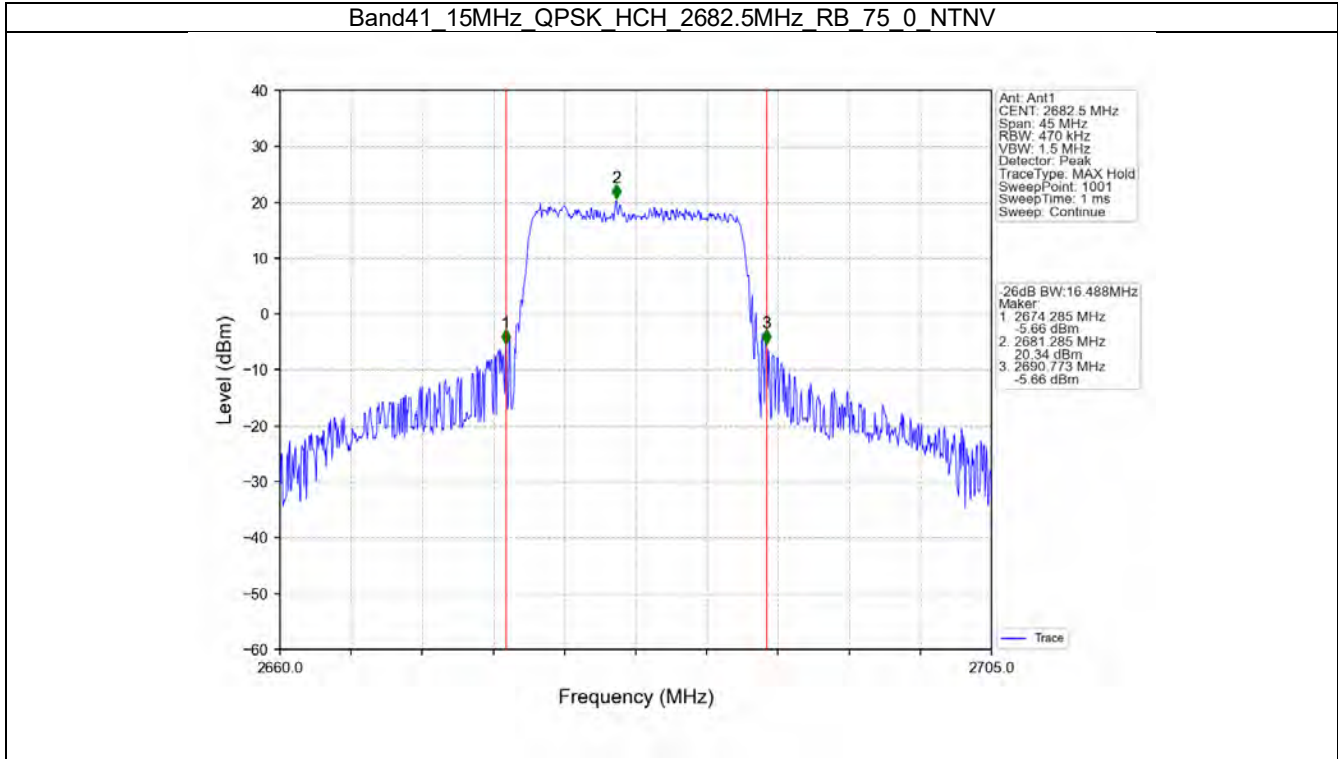
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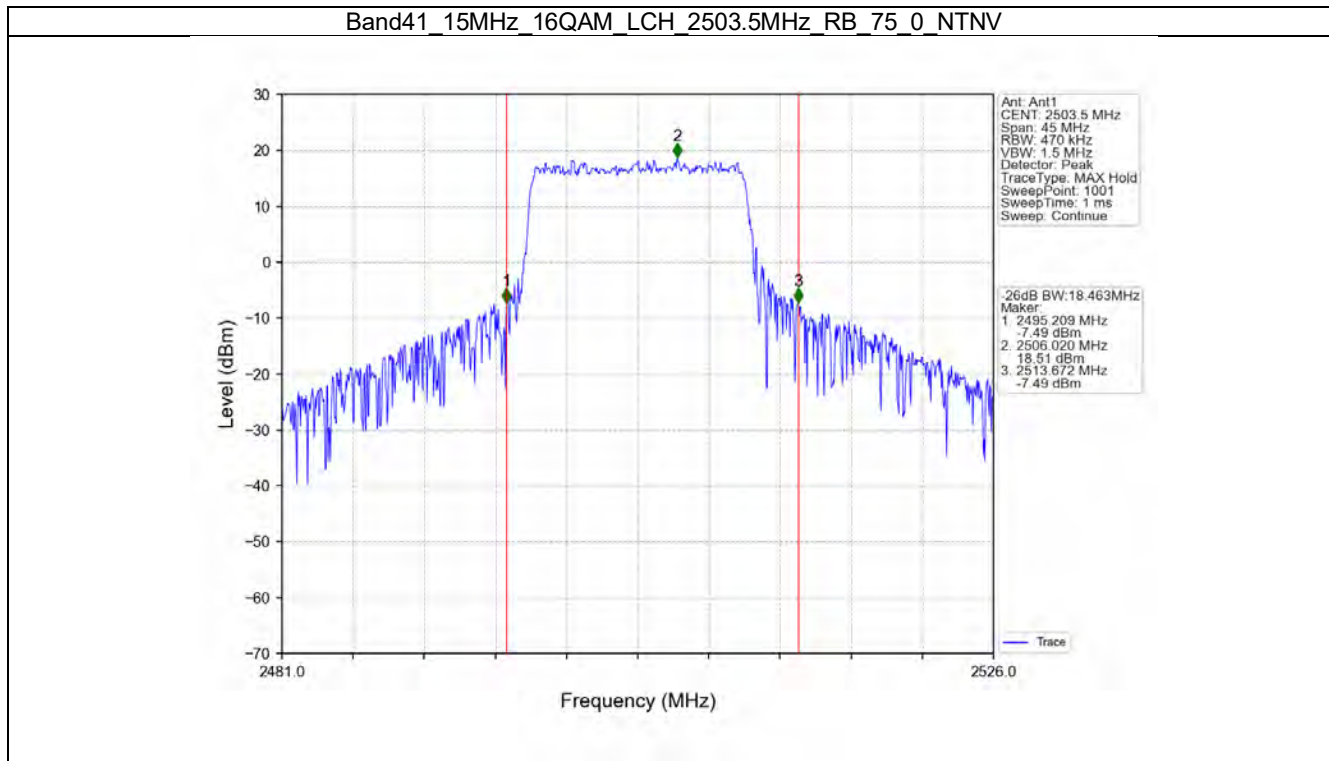


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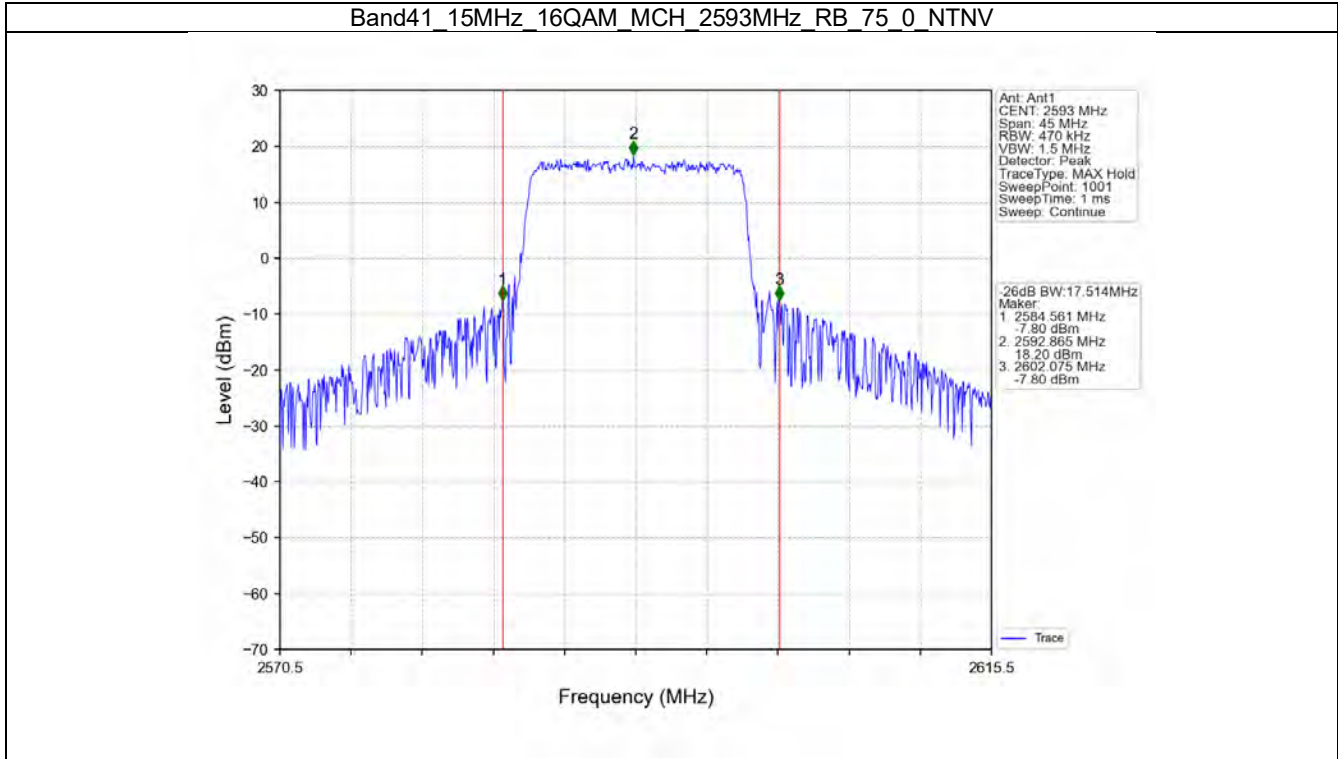
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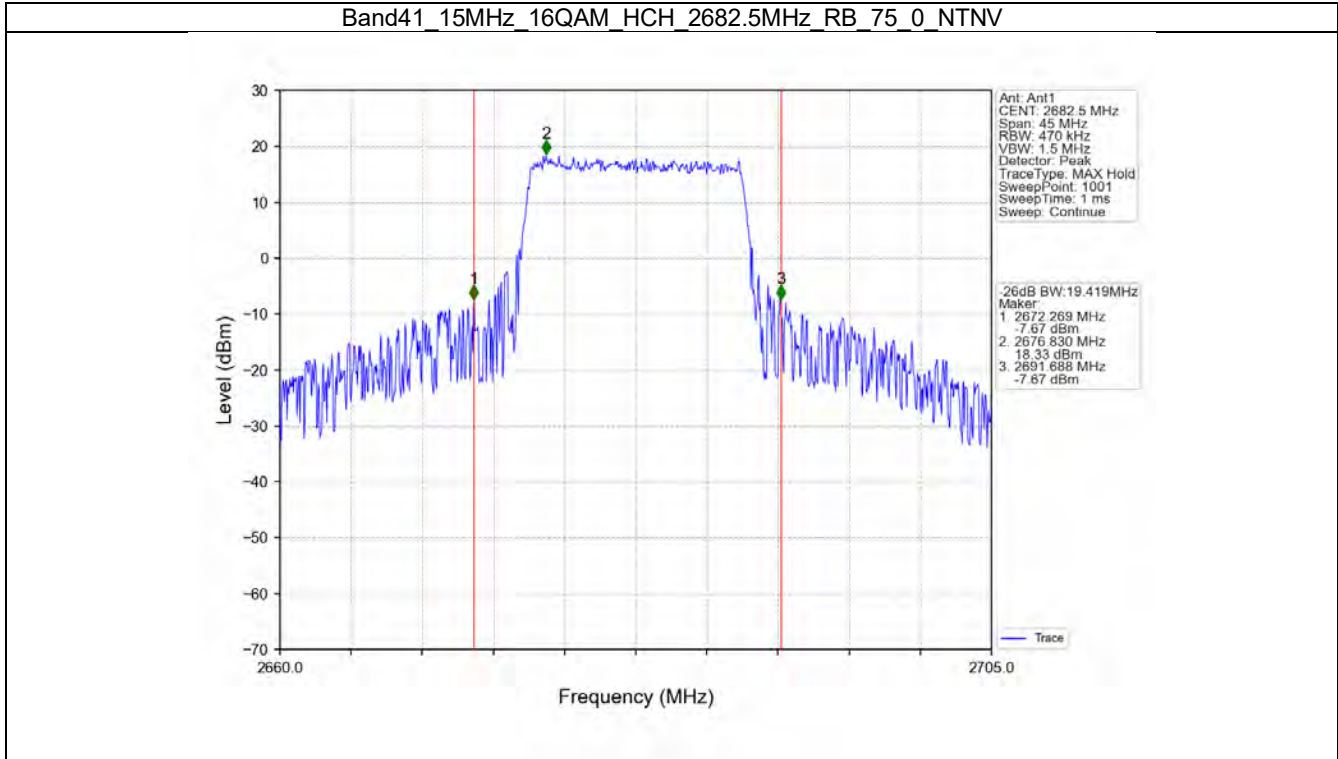
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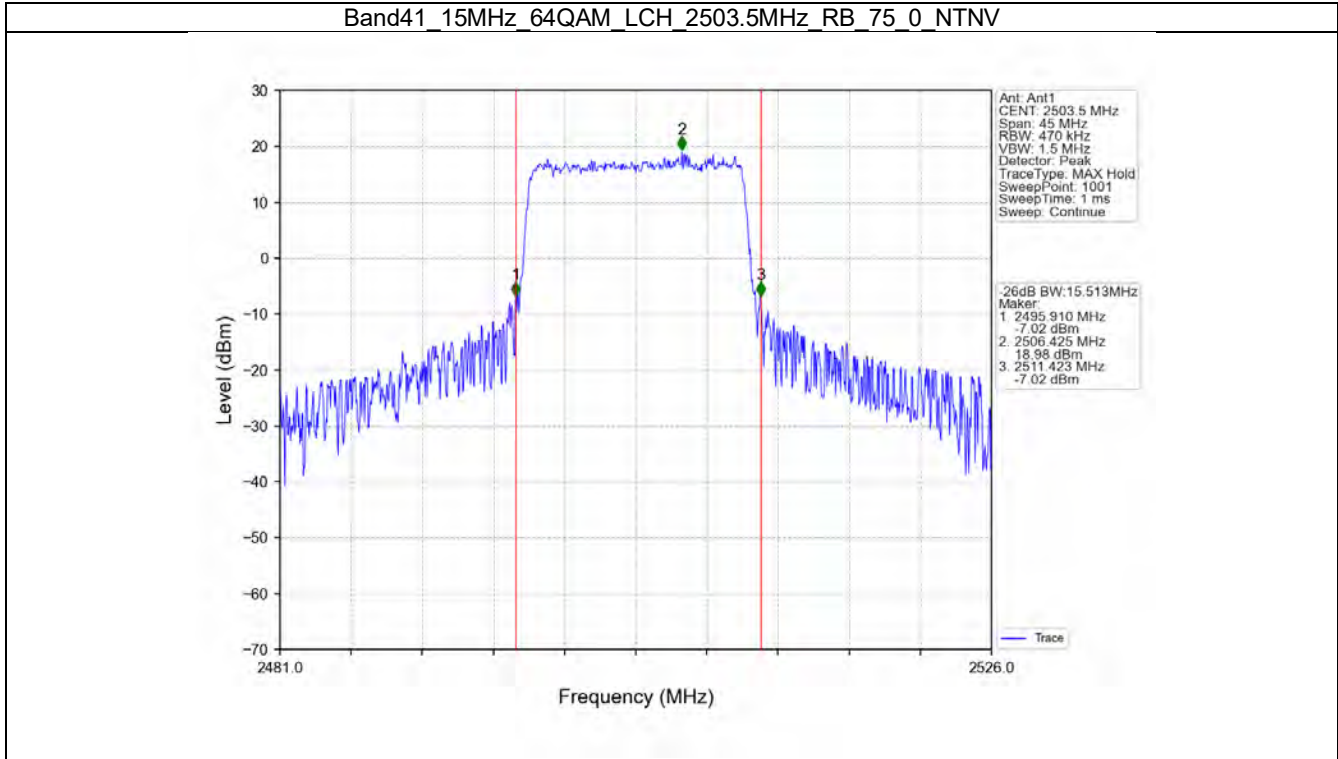
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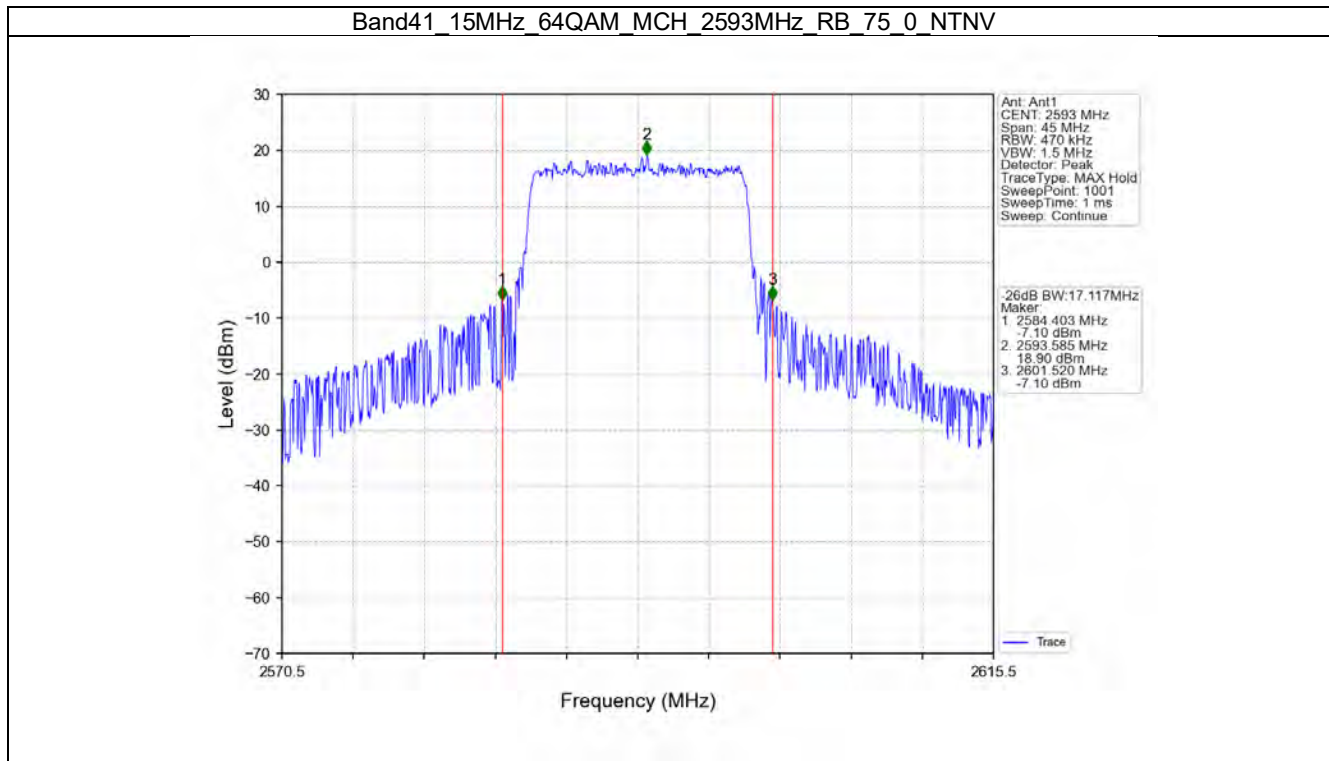


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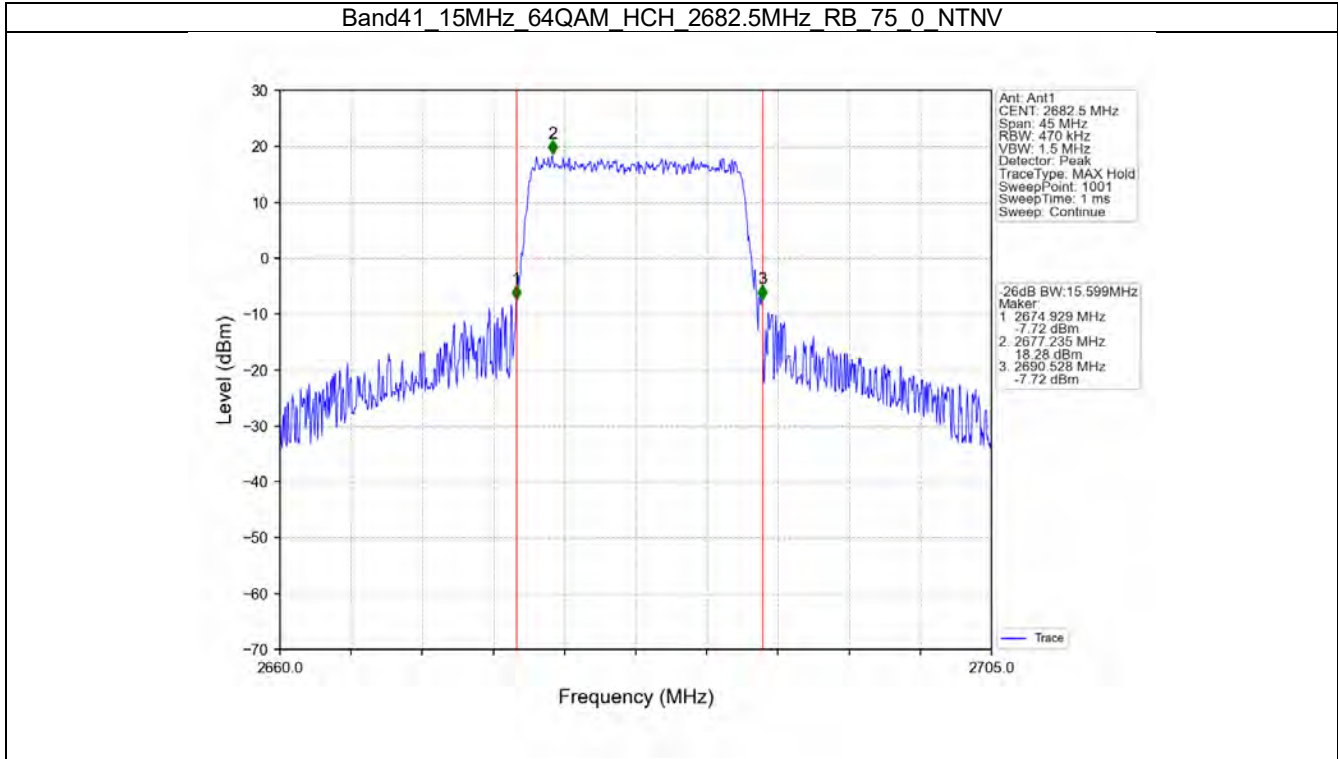
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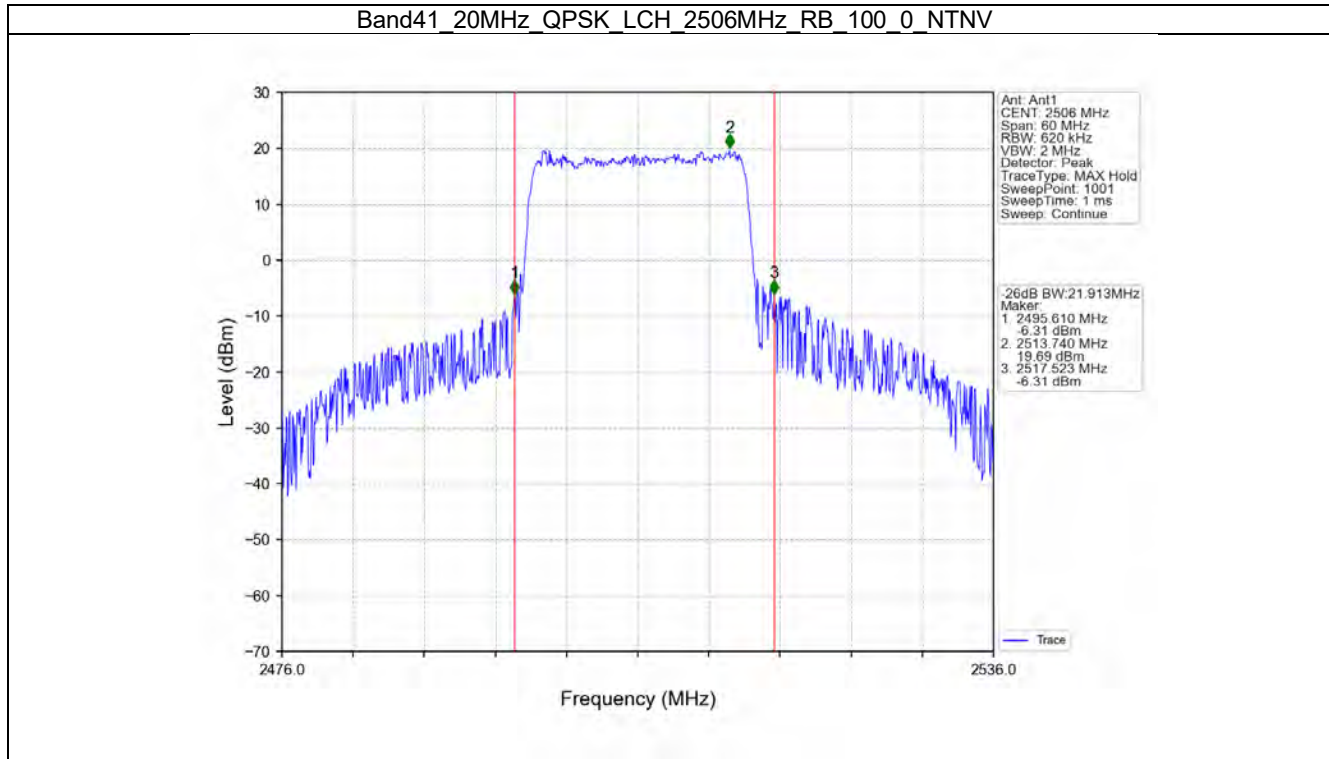


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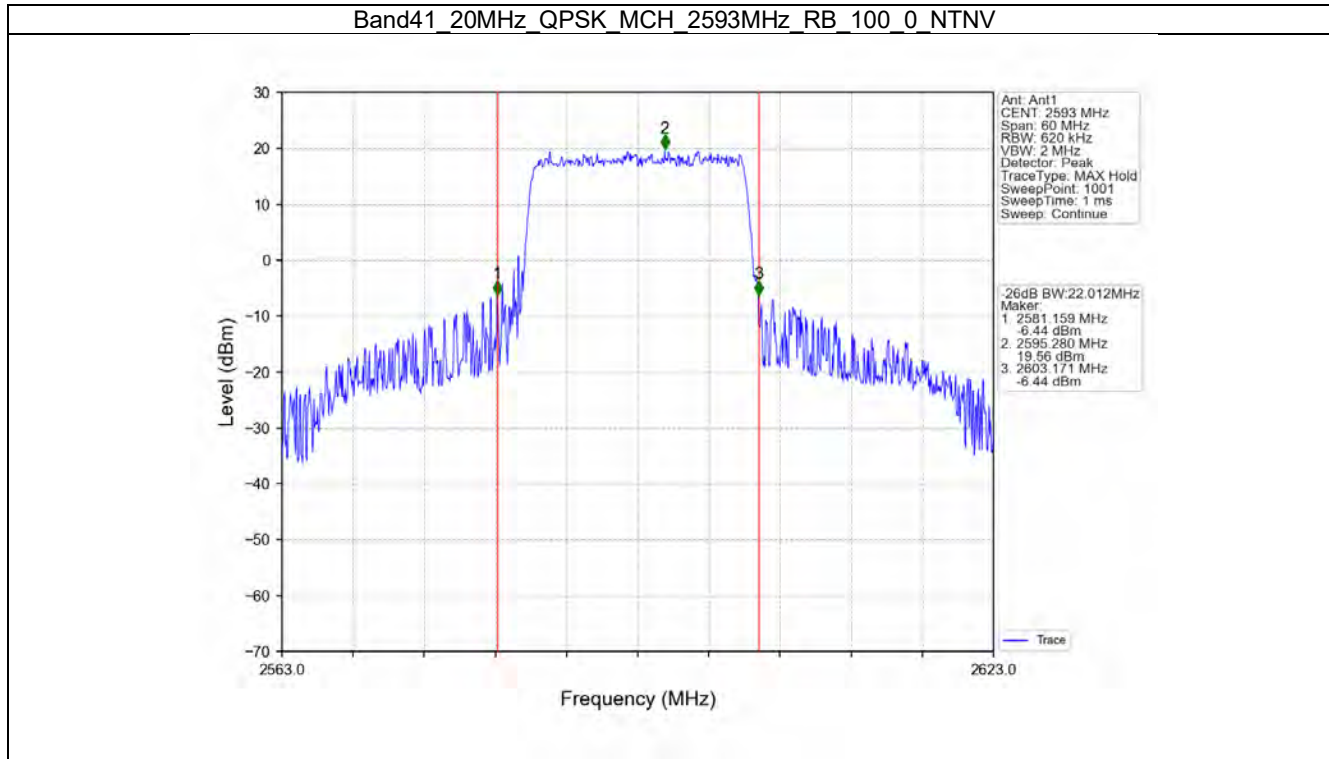


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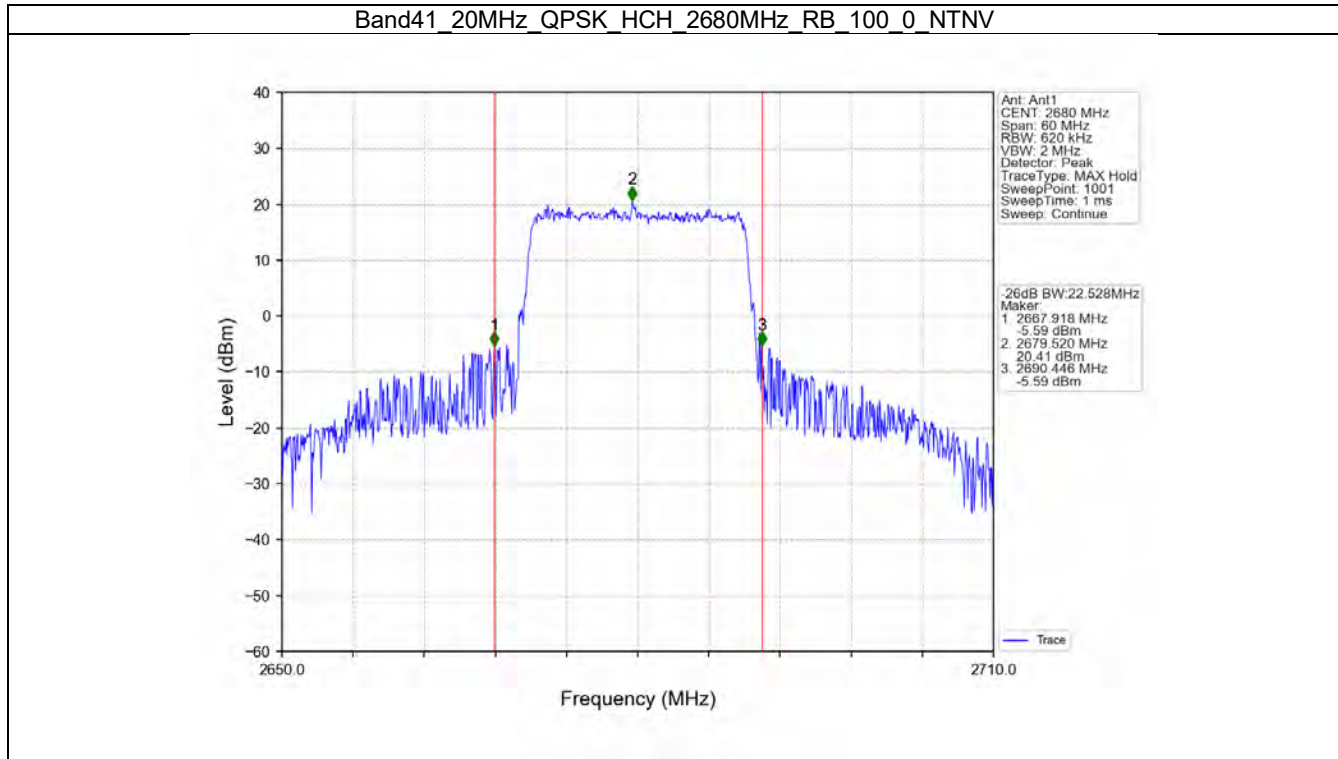


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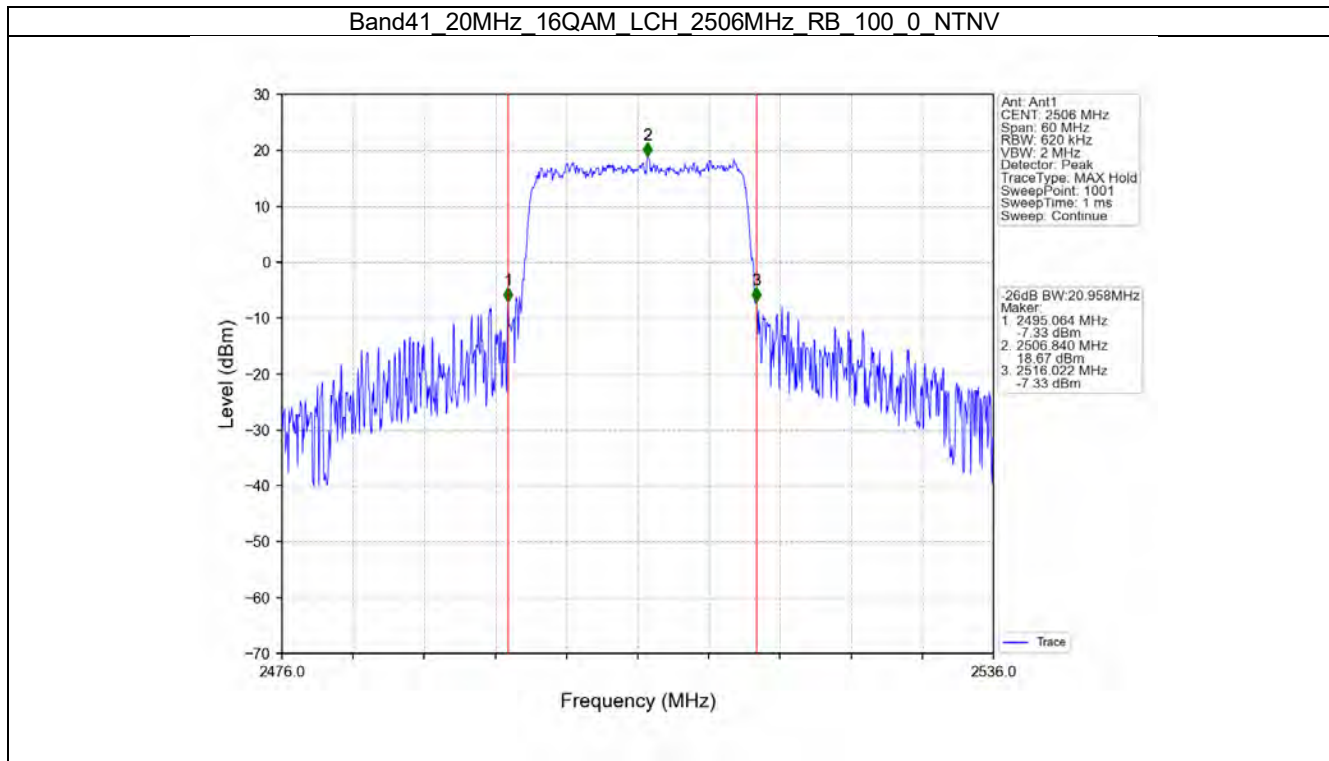


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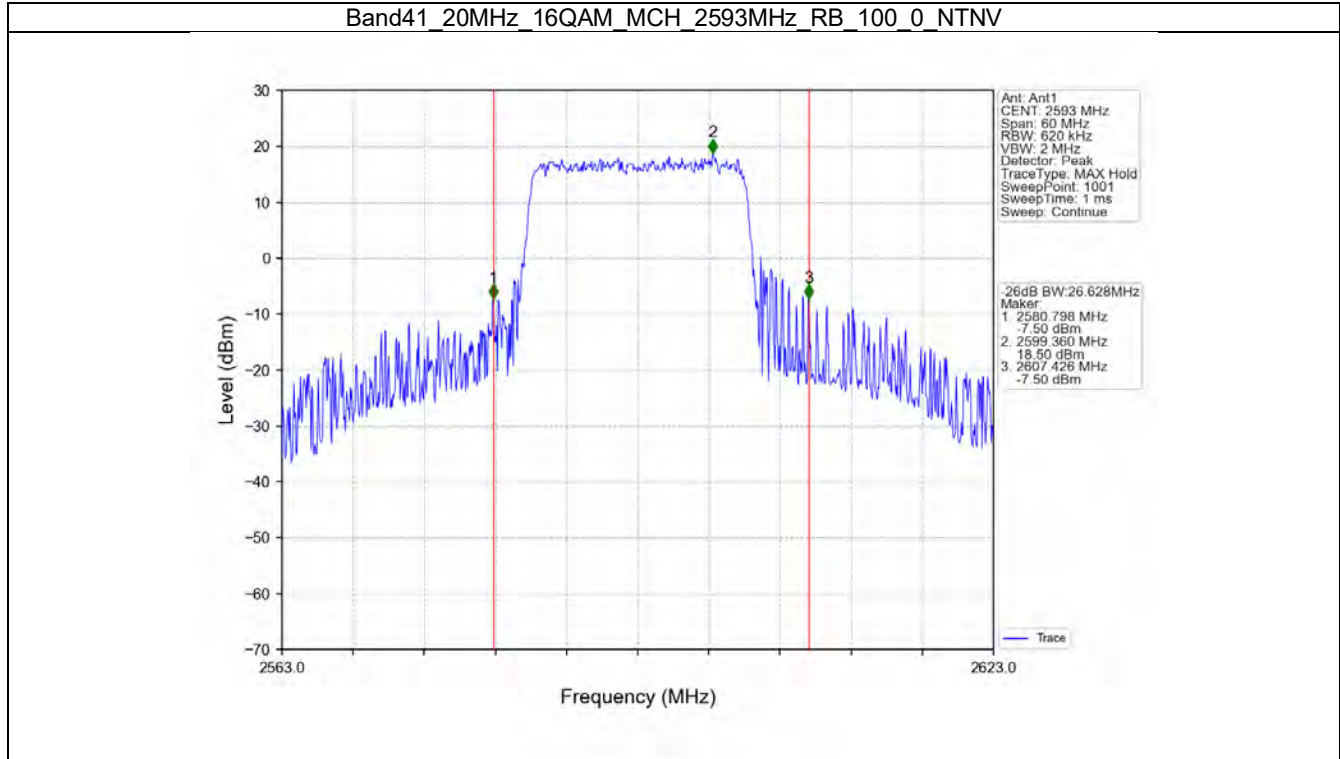
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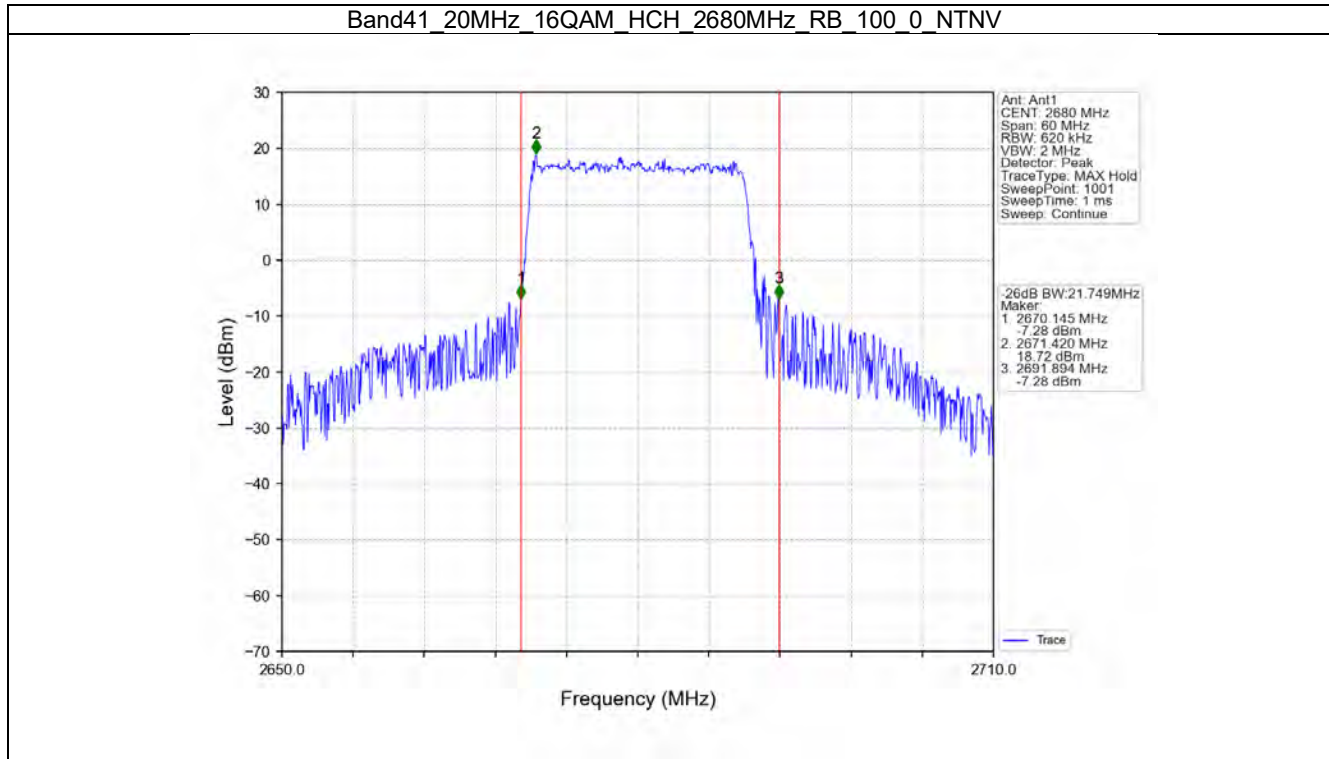


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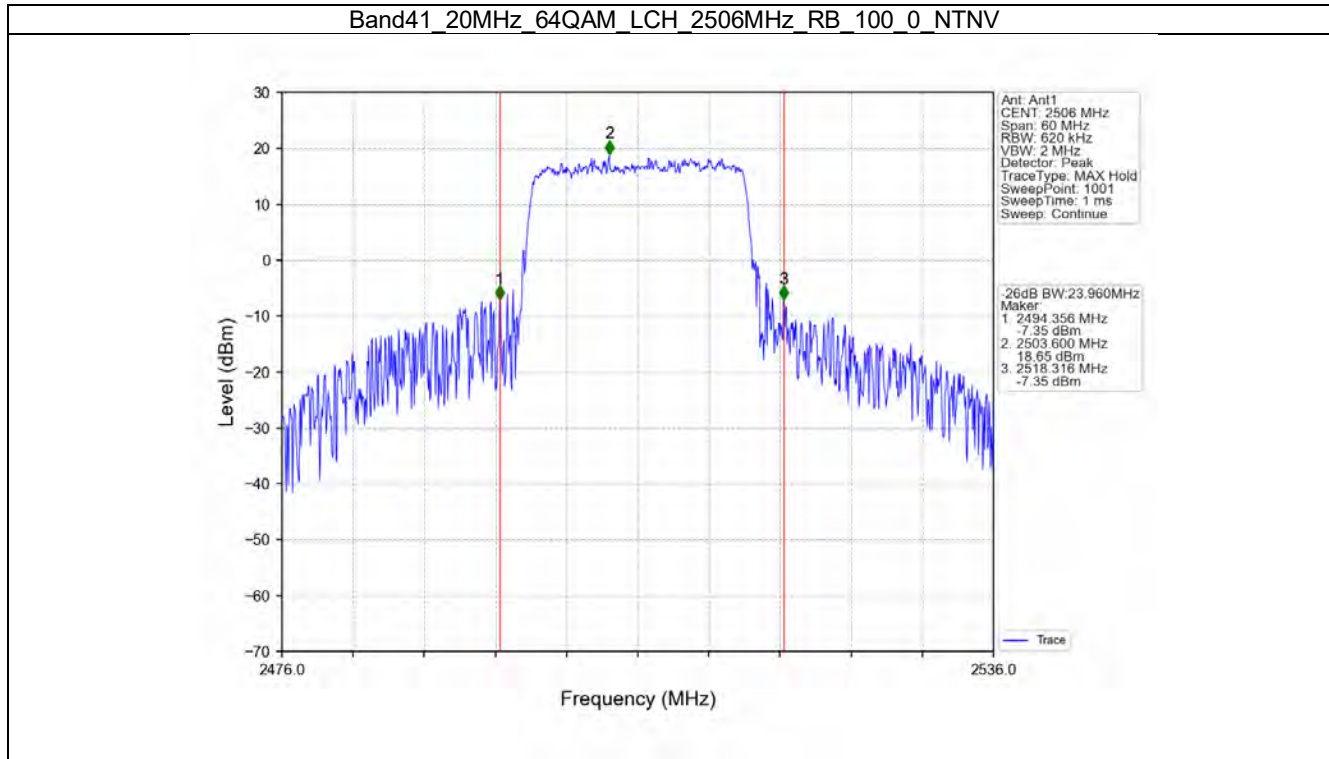


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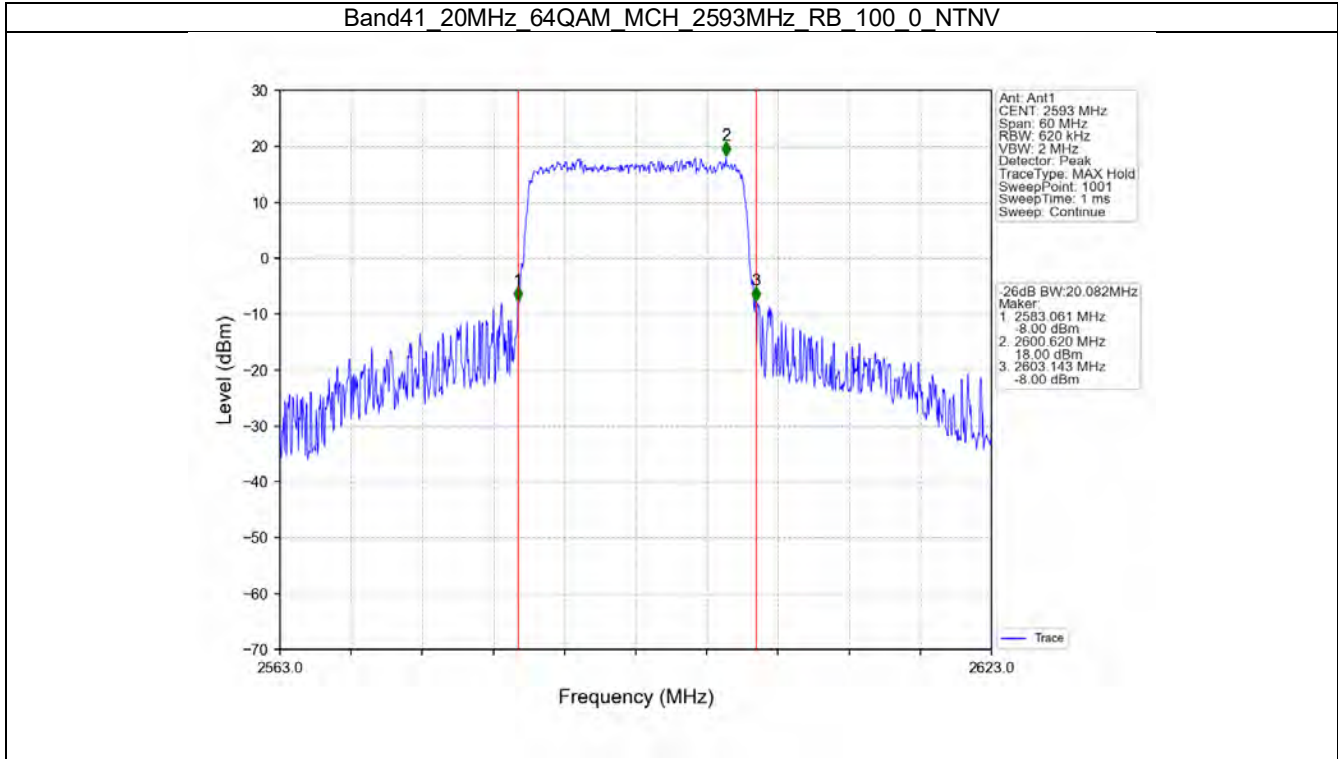
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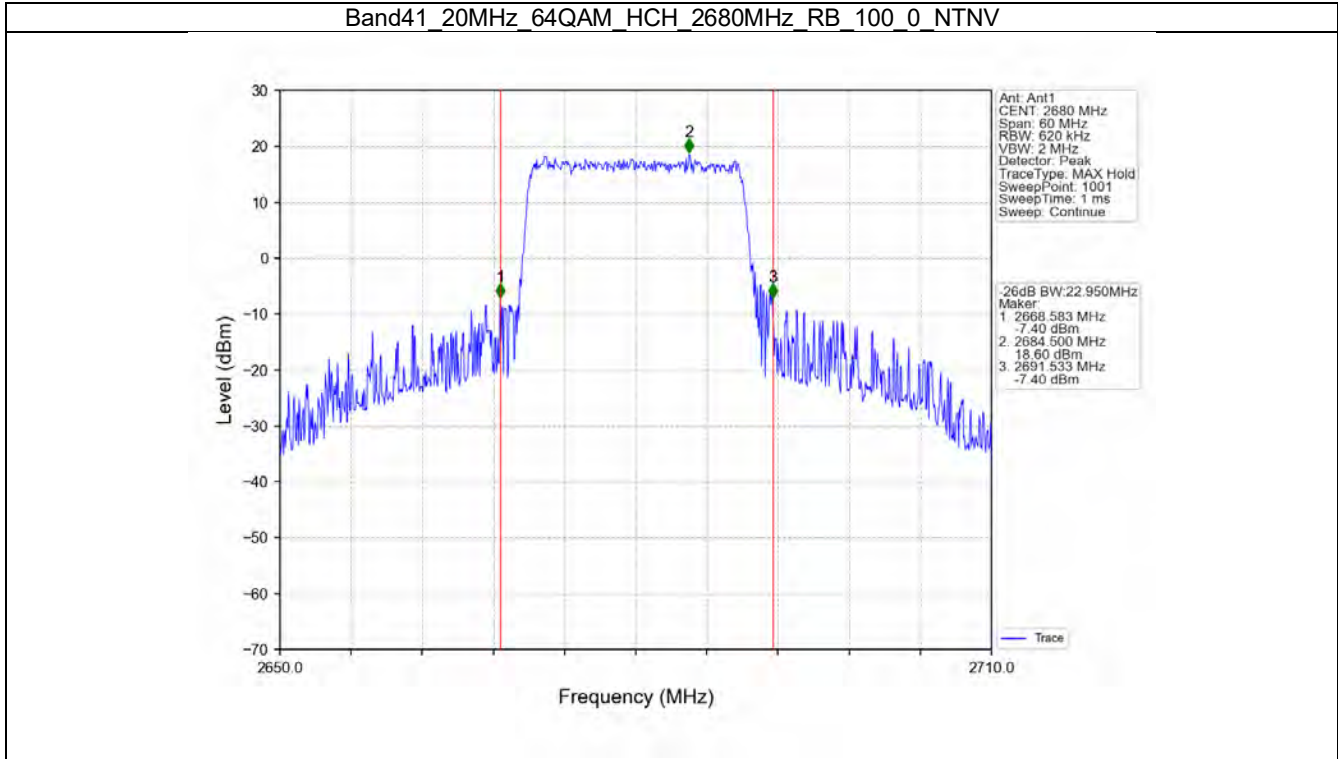
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4. Peak-Average Ratio

4.1 B41_5MHz

4.1.1 Test Result

Band: 41 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2498.5	25	0	8.97	<=13	Pass
	2593	25	0	9.11	<=13	Pass
	2687.5	25	0	9.08	<=13	Pass
16QAM	2498.5	25	0	9.63	<=13	Pass
	2593	25	0	9.72	<=13	Pass
	2687.5	25	0	9.74	<=13	Pass
64QAM	2498.5	25	0	9.87	<=13	Pass
	2593	25	0	9.88	<=13	Pass
	2687.5	25	0	9.85	<=13	Pass



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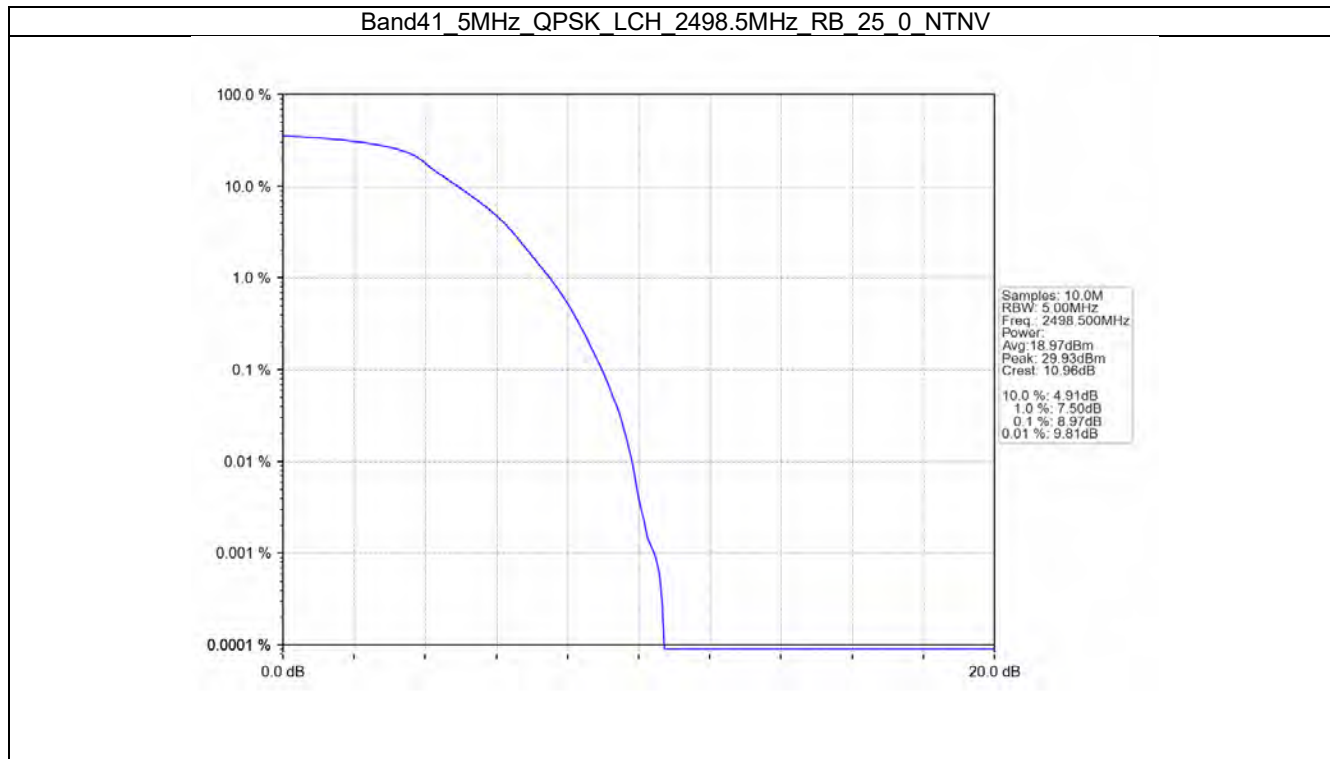
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4.1.2 Test Graph



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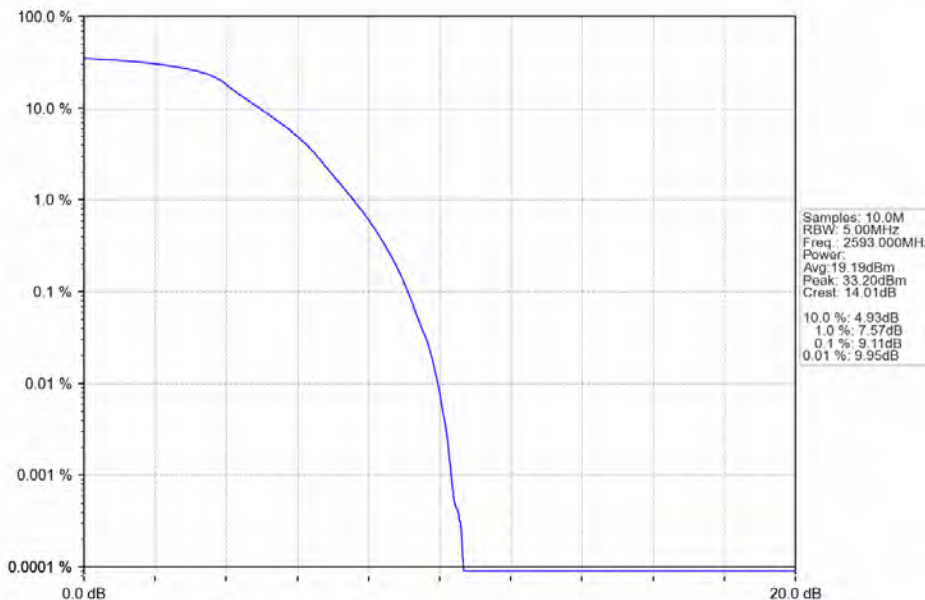
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Band41_5MHz_QPSK_MCH_2593MHz_RB_25_0_NTNV



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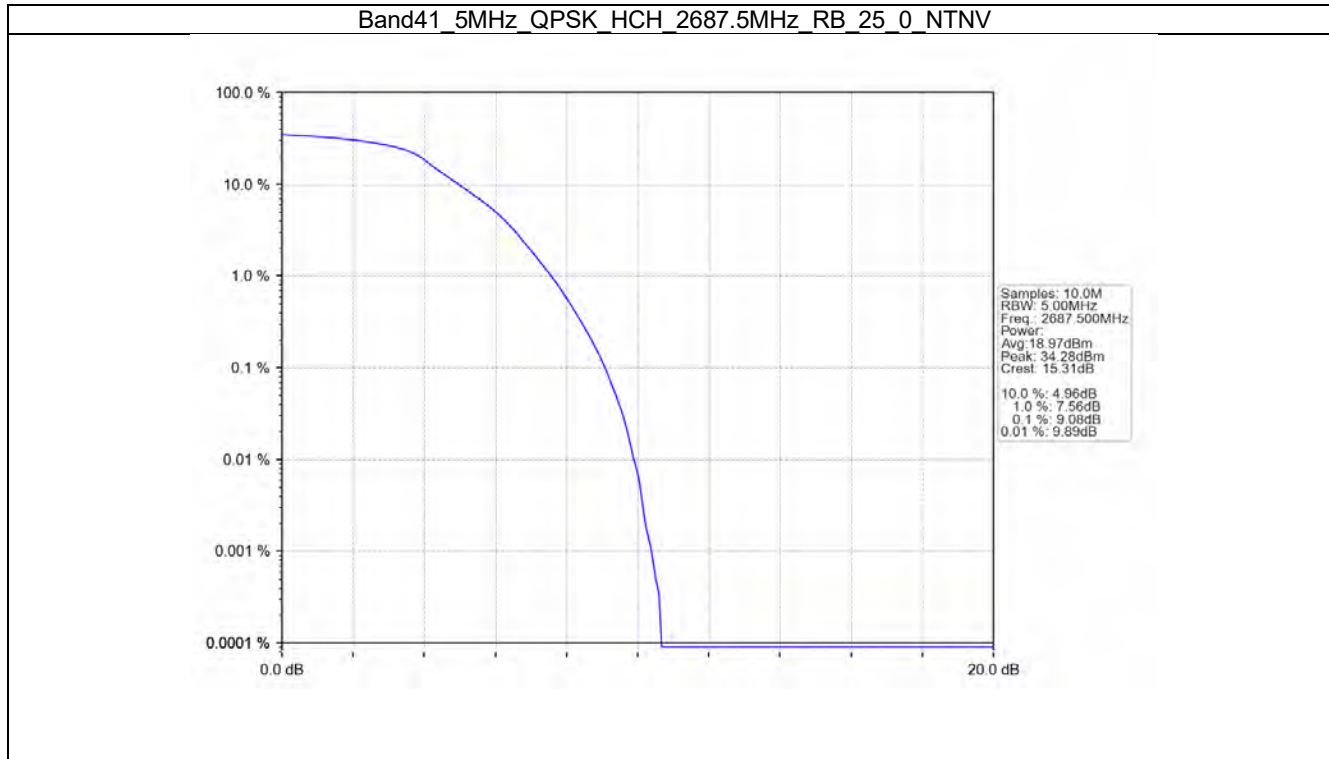
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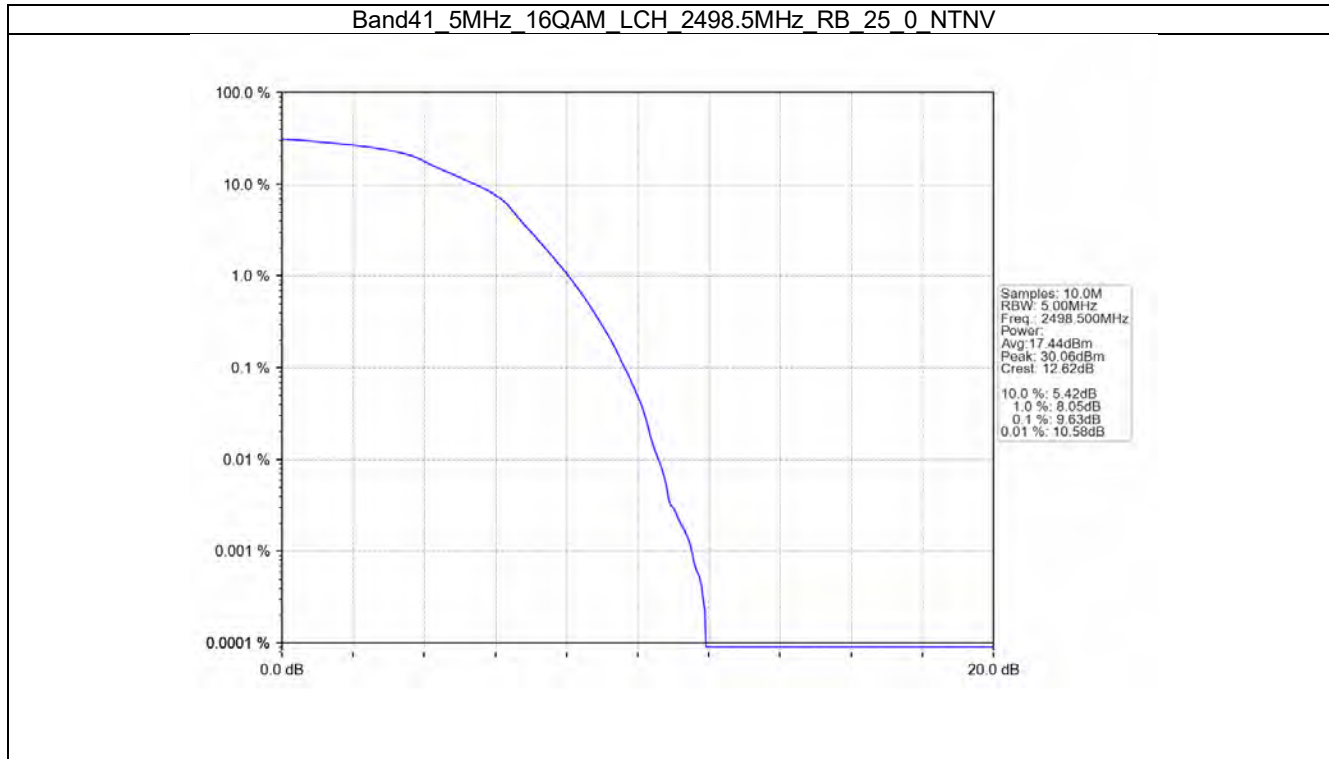


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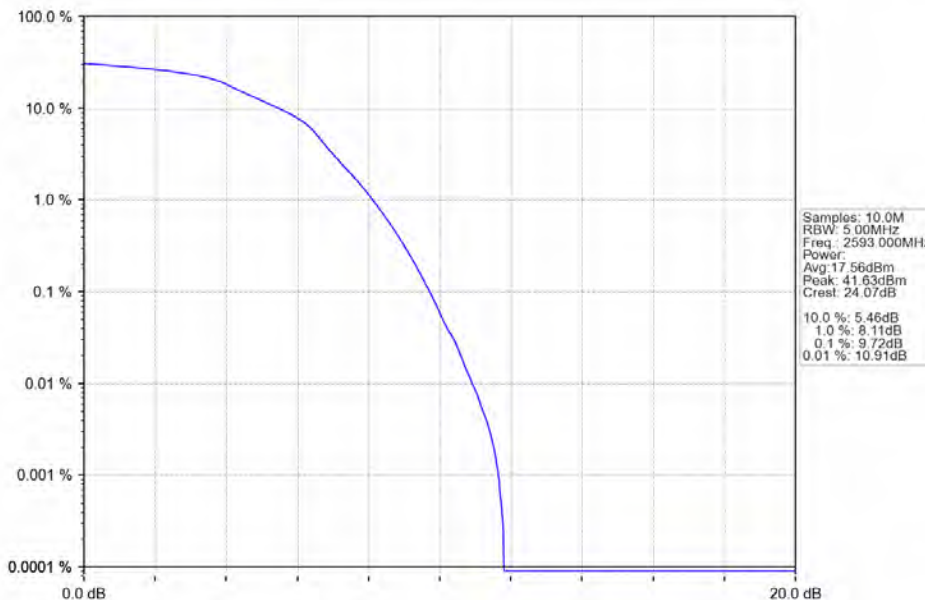
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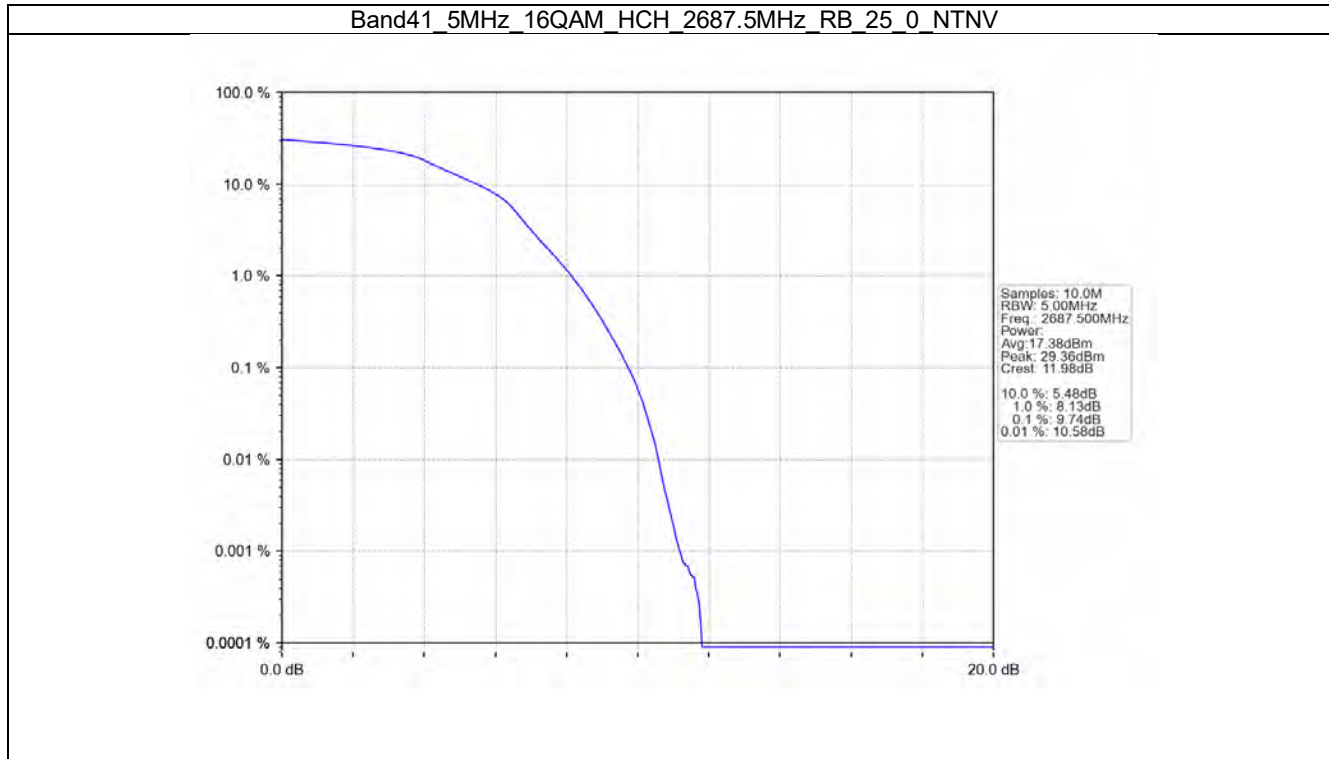


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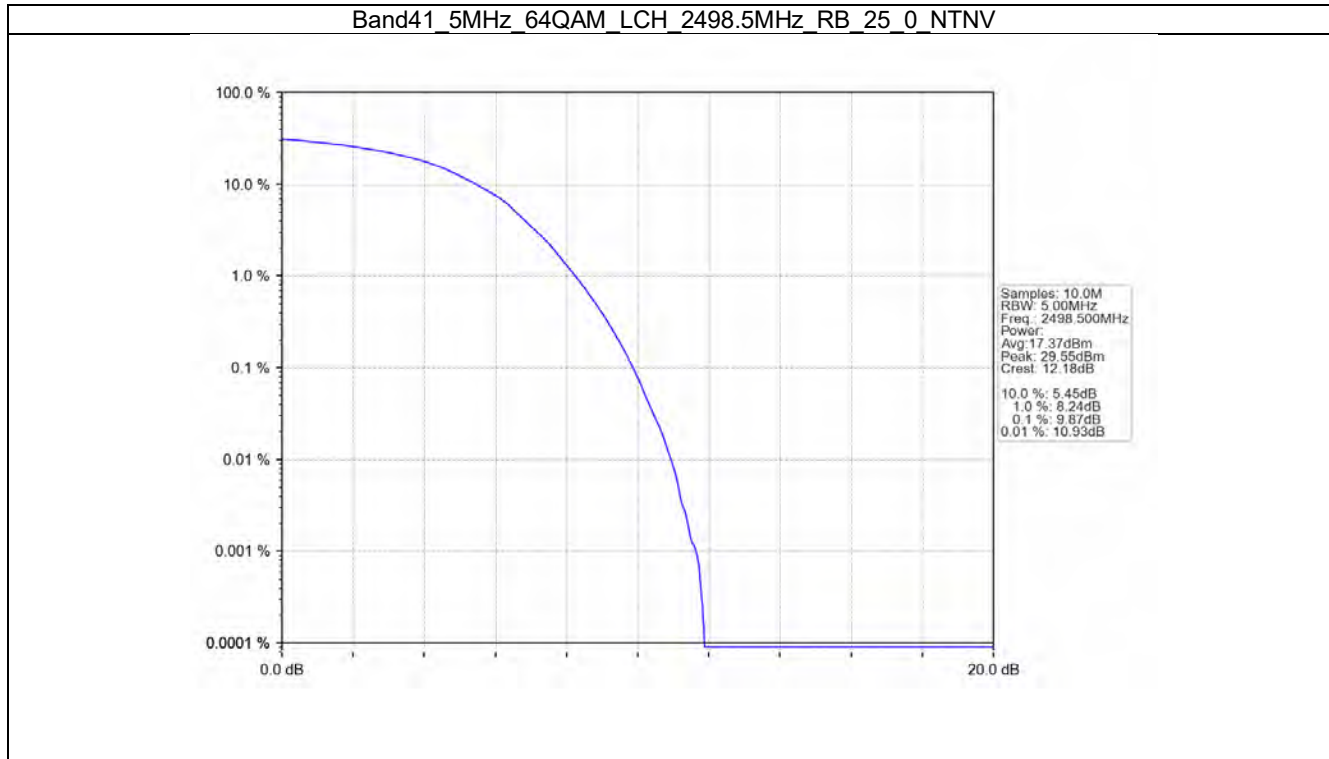


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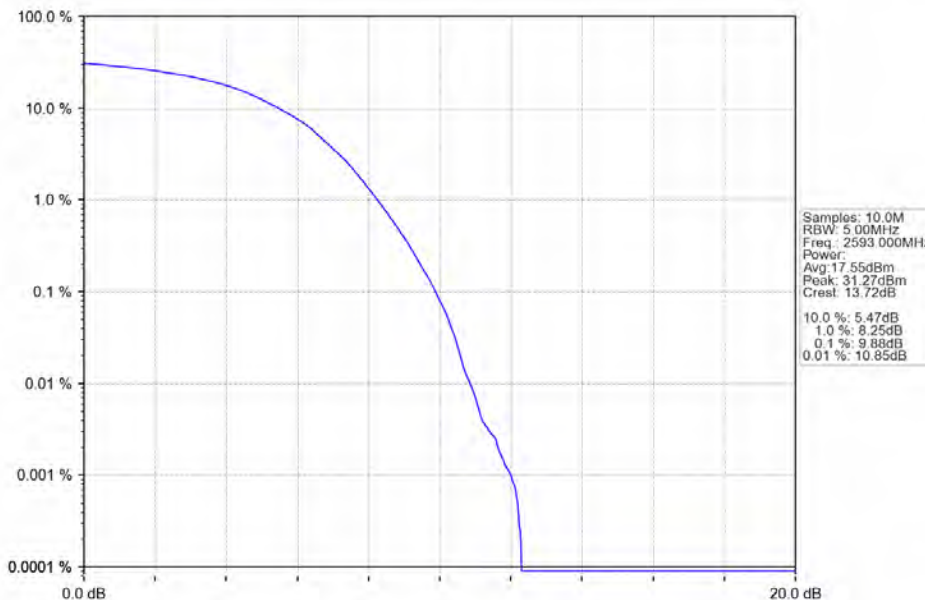
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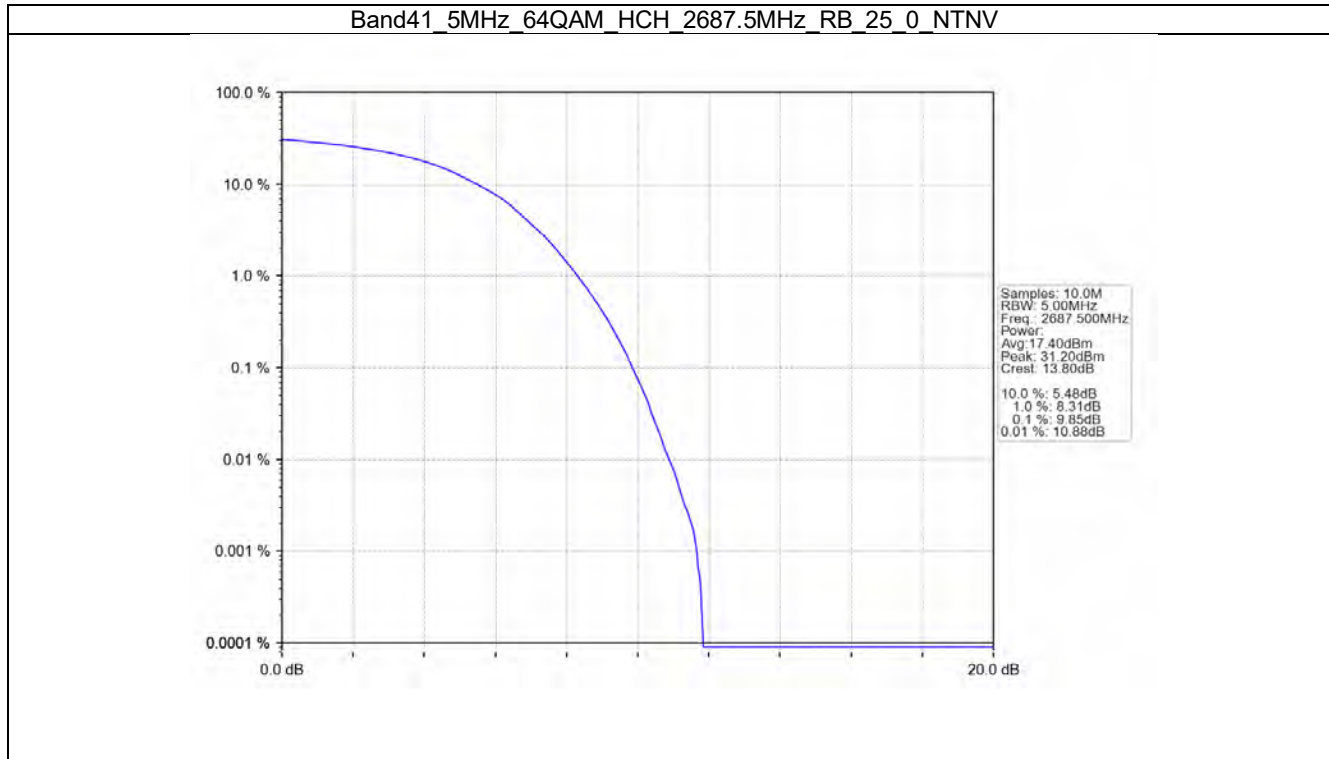
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4.2 B41_10MHz

4.2.1 Test Result

Band: 41 / Bandwidth: 10MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2501	50	0	9.12	<=13	Pass
	2593	50	0	9.10	<=13	Pass
	2685	50	0	9.04	<=13	Pass
16QAM	2501	50	0	9.76	<=13	Pass
	2593	50	0	9.63	<=13	Pass
	2685	50	0	9.77	<=13	Pass
64QAM	2501	50	0	10.14	<=13	Pass
	2593	50	0	9.68	<=13	Pass
	2685	50	0	9.78	<=13	Pass



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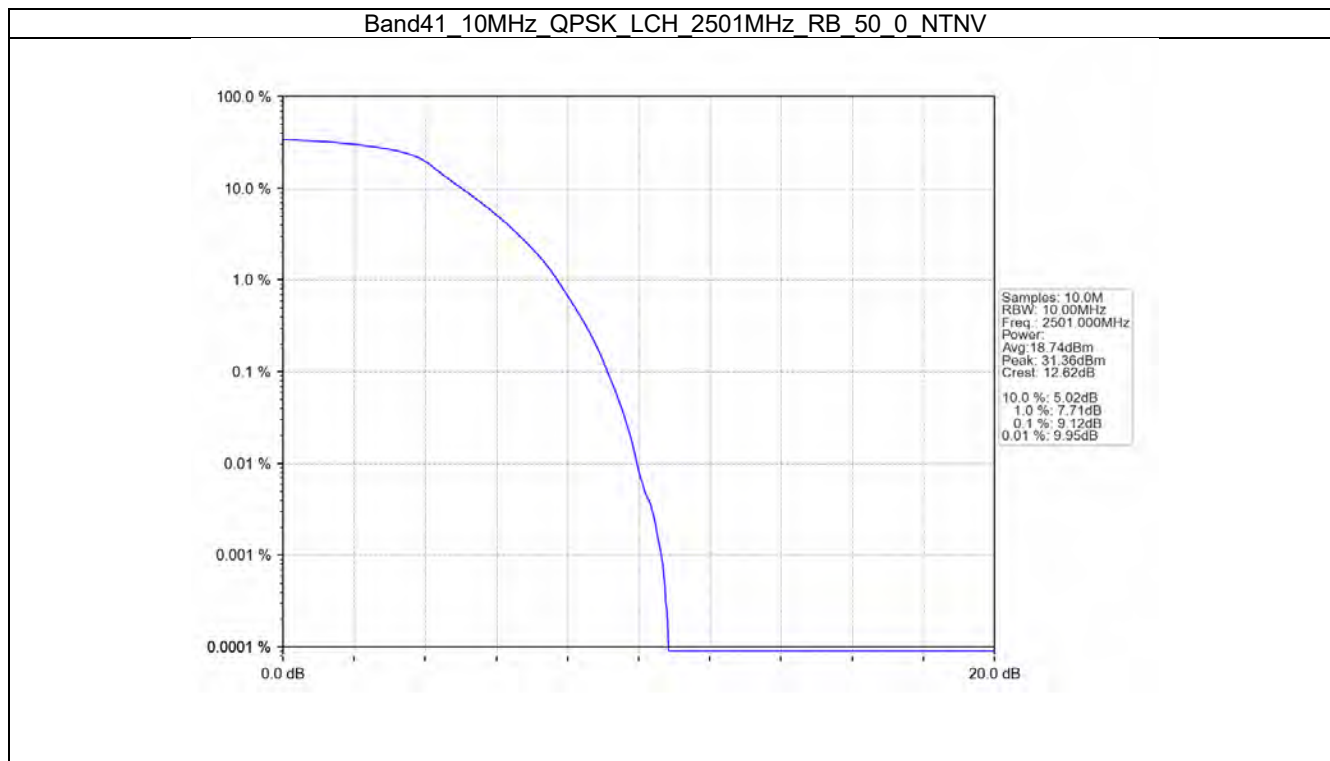
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4.2.2 Test Graph



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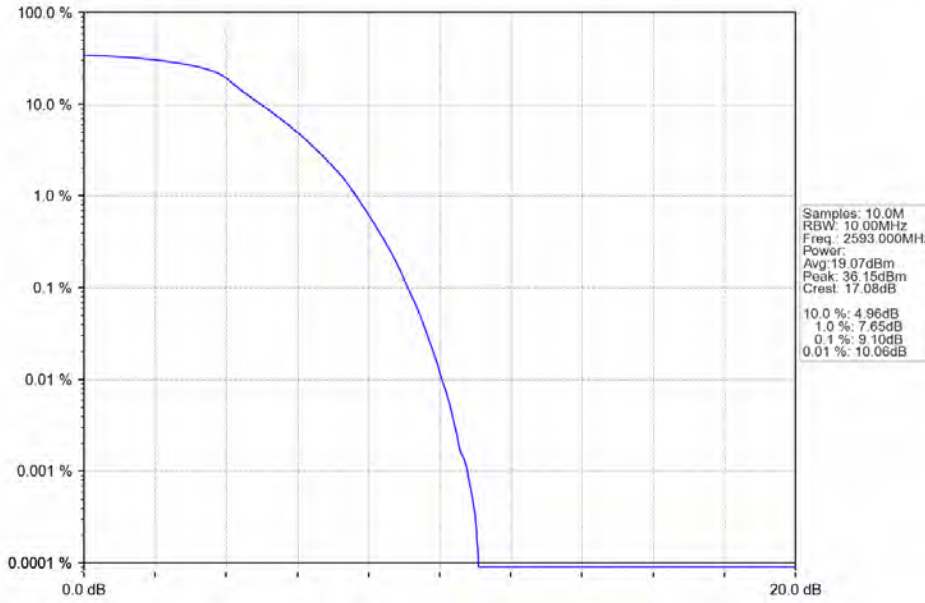
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Band41_10MHz QPSK MCH_2593MHz_RB_50_0_NTNV



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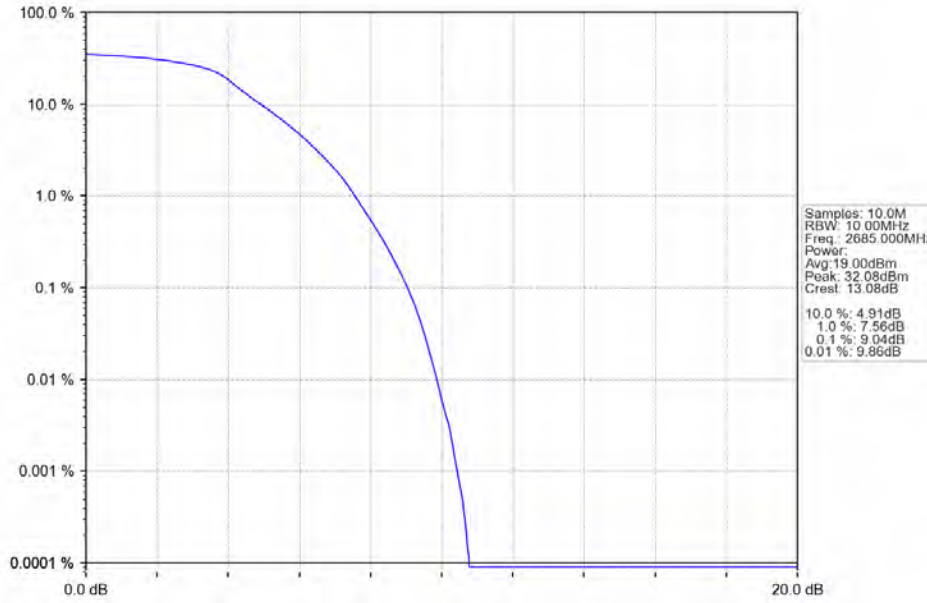
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Band41_10MHz_QPSK_HCH_2685MHz_RB_50_0_NTNV



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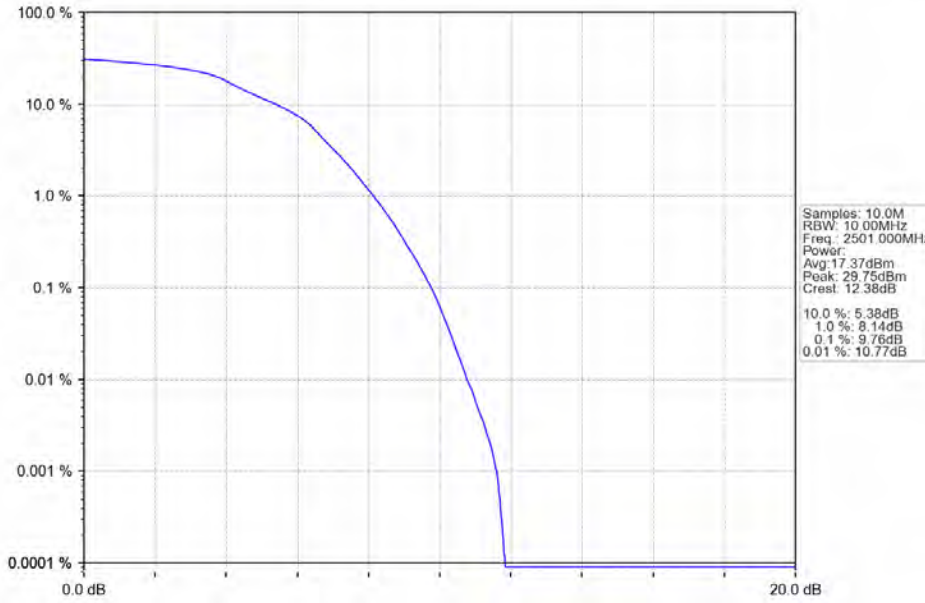
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Band41_10MHz_16QAM_LCH_2501MHz_RB_50_0_NTNV



Samples: 10.0M
 RBW: 10.00MHz
 Freq.: 2501.000MHz
 Power:
 Avg: 17.37dBm
 Peak: 29.75dBm
 Crest: 12.38dB
 10.0 %: 5.38dB
 1.0 %: 8.14dB
 0.1 %: 9.76dB
 0.01 %: 10.77dB



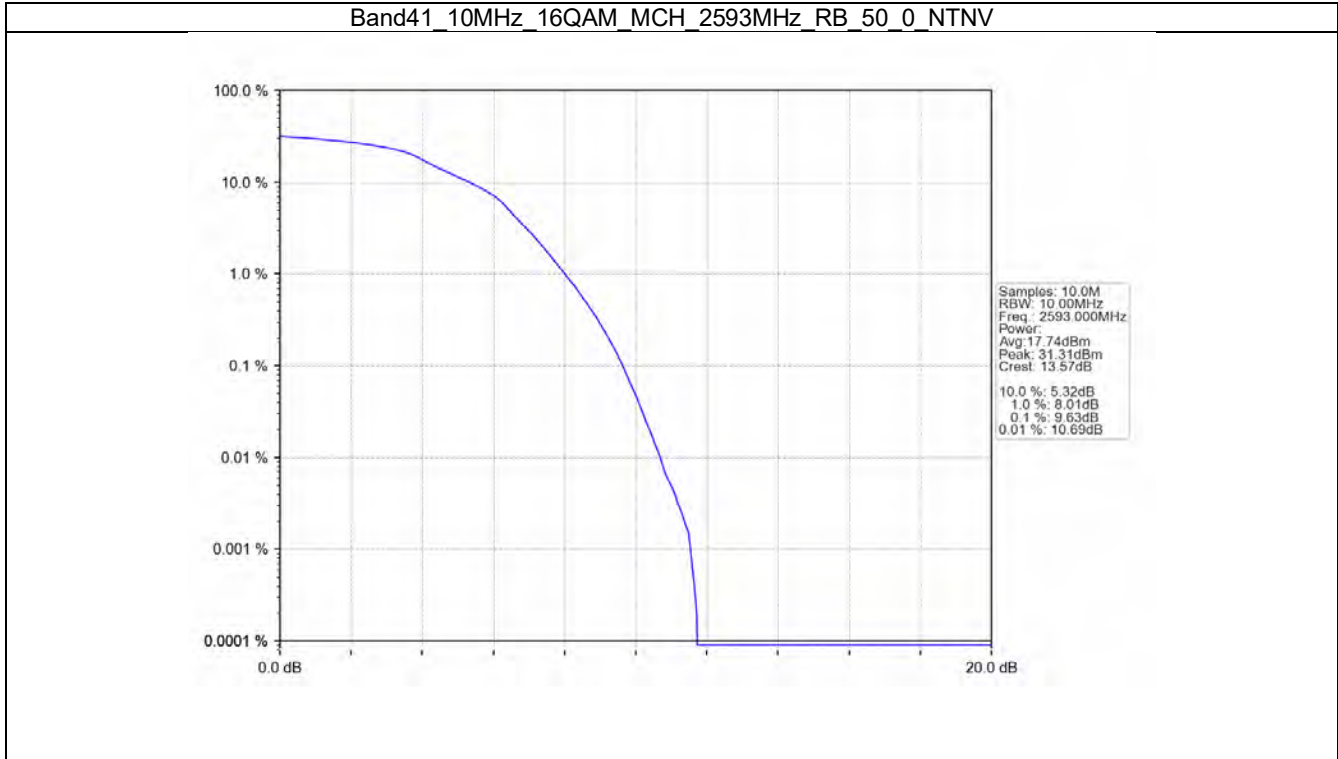
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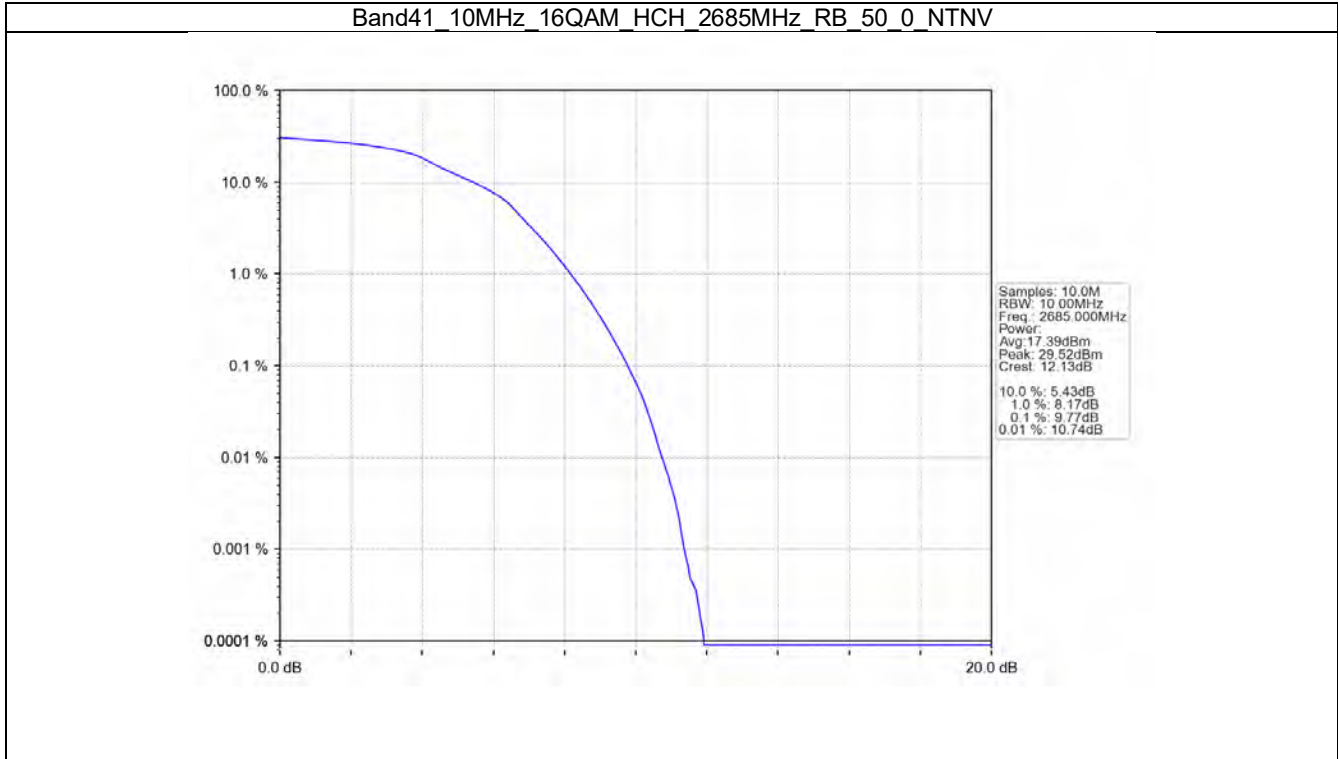
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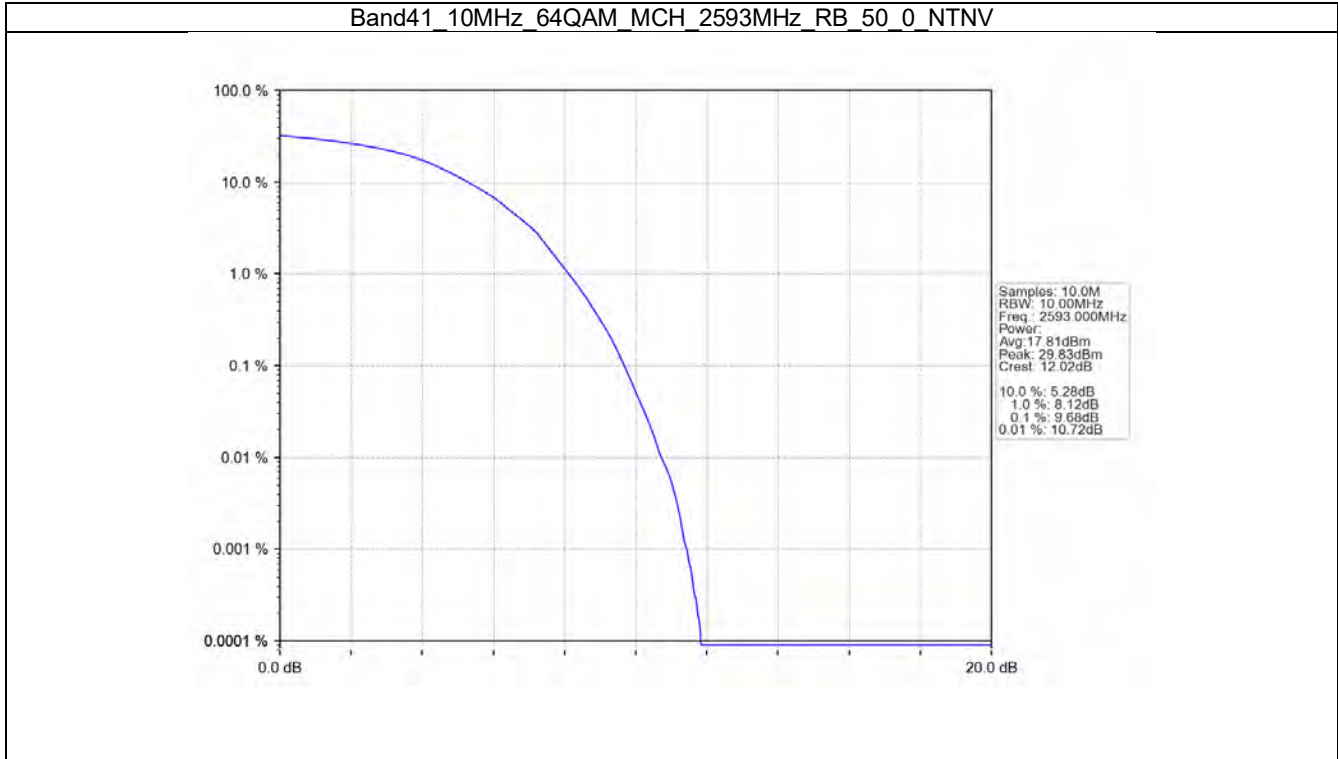
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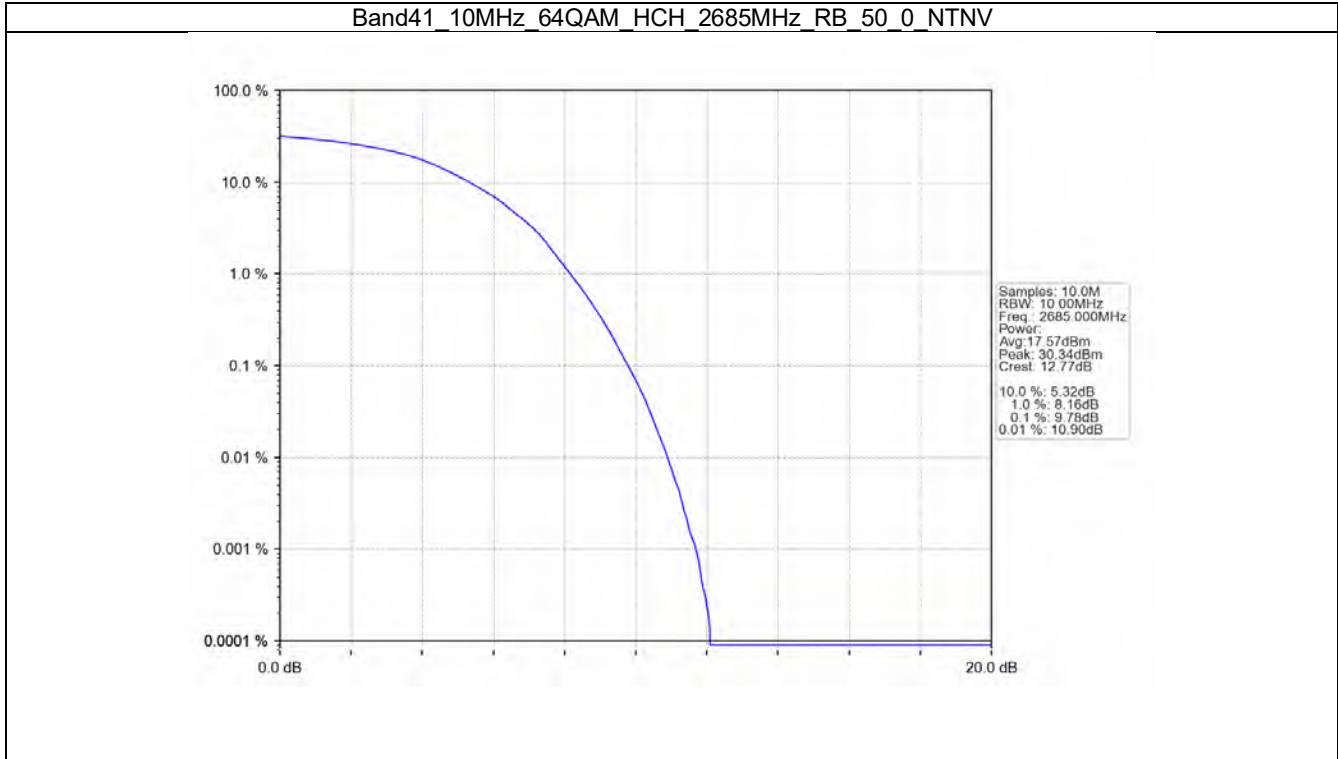
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4.3 B41_15MHz

4.3.1 Test Result

Band: 41 / Bandwidth: 15MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2503.5	75	0	9.47	<=13	Pass
	2593	75	0	9.28	<=13	Pass
	2682.5	75	0	9.37	<=13	Pass
16QAM	2503.5	75	0	10.21	<=13	Pass
	2593	75	0	9.64	<=13	Pass
	2682.5	75	0	9.88	<=13	Pass
64QAM	2503.5	75	0	10.25	<=13	Pass
	2593	75	0	9.98	<=13	Pass
	2682.5	75	0	10.04	<=13	Pass



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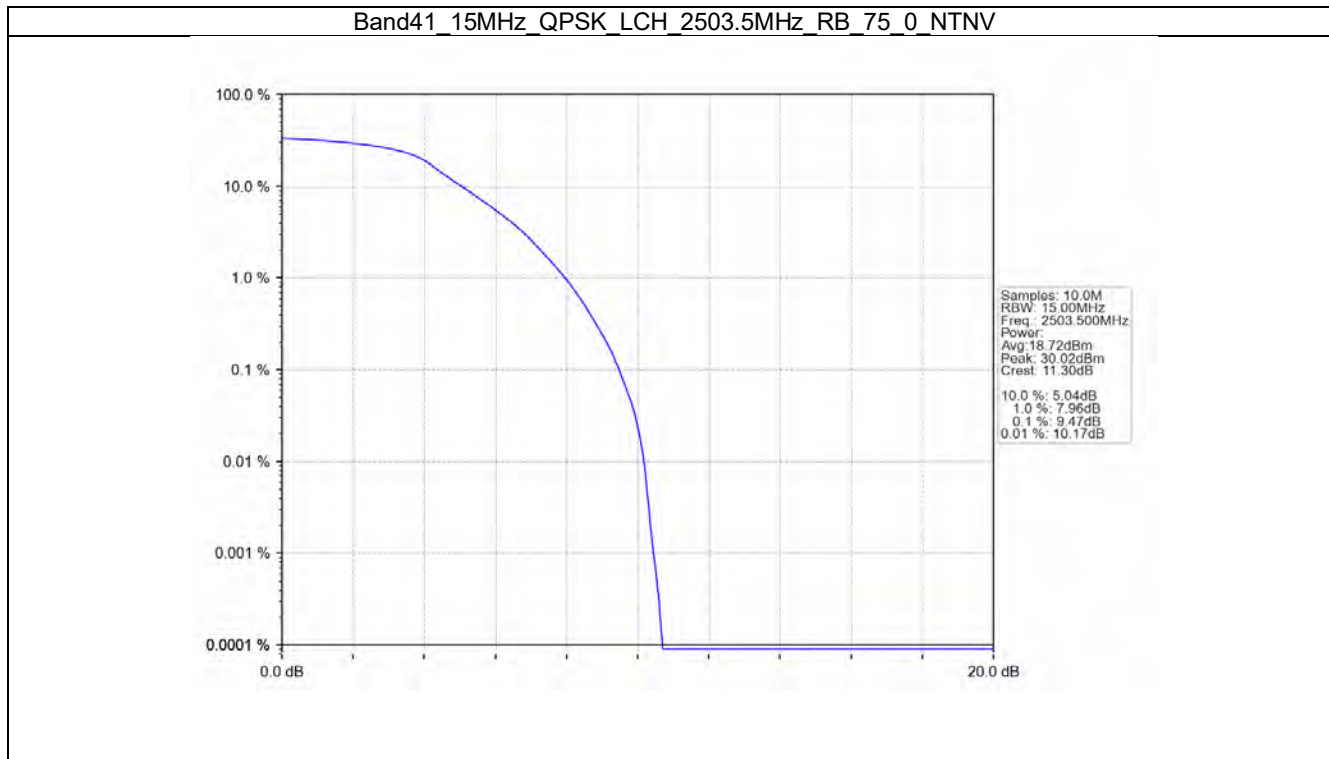
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4.3.2 Test Graph



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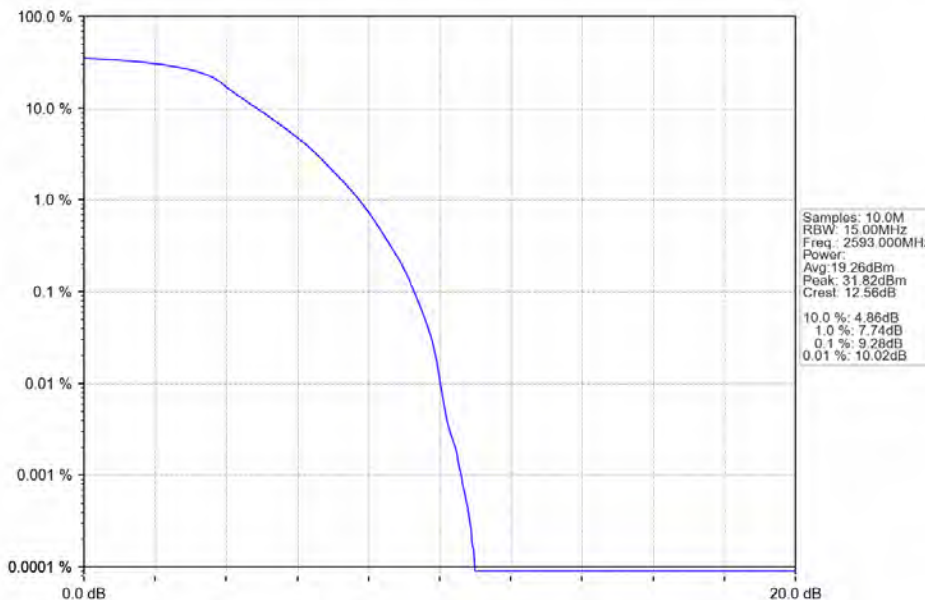
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Band41_15MHz_QPSK_MCH_2593MHz_RB_75_0_NTNV



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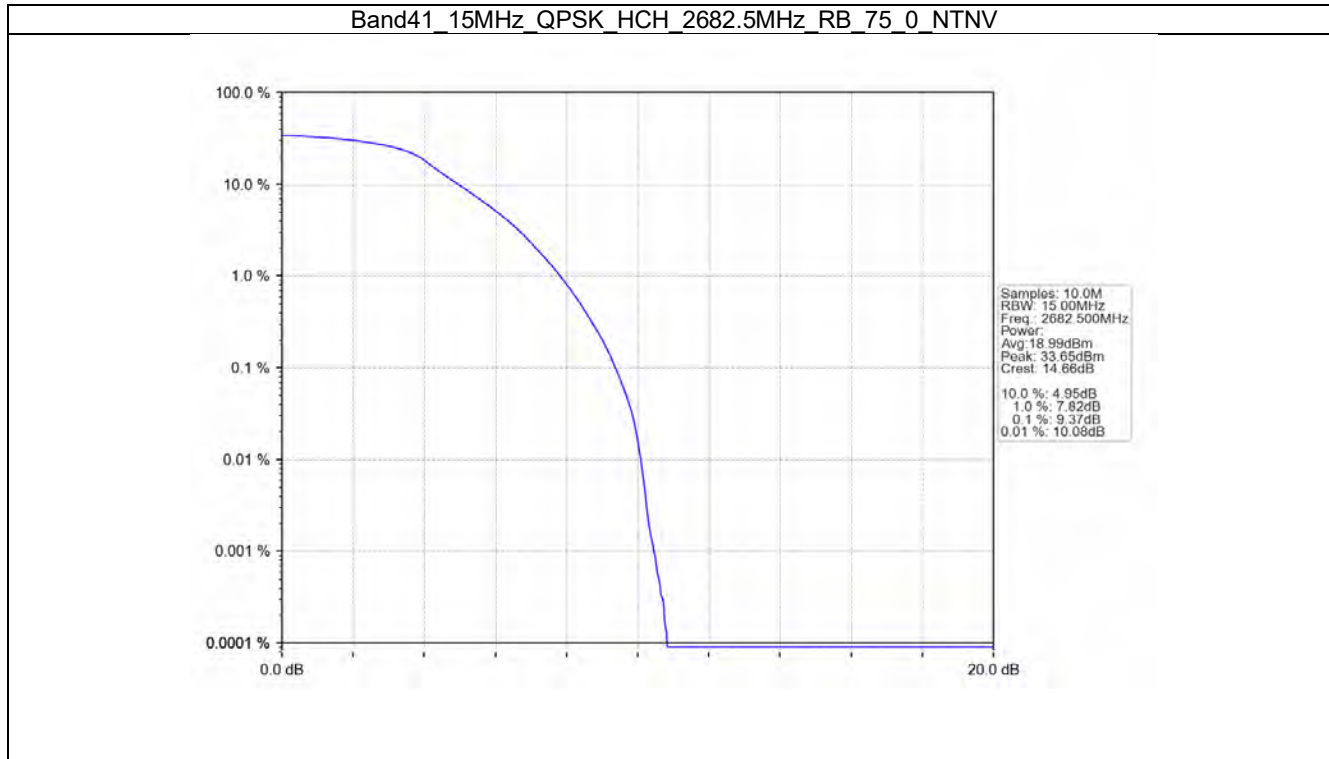


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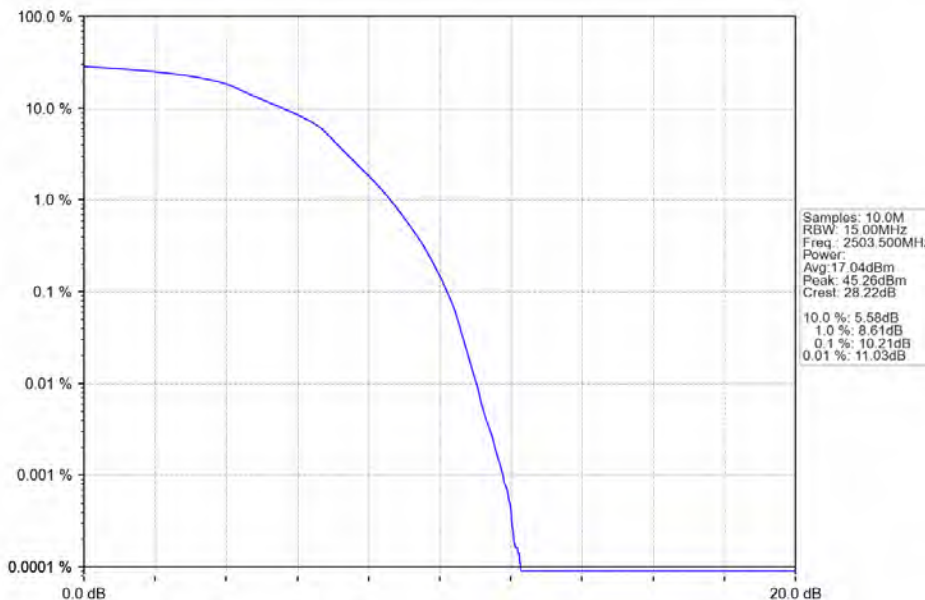
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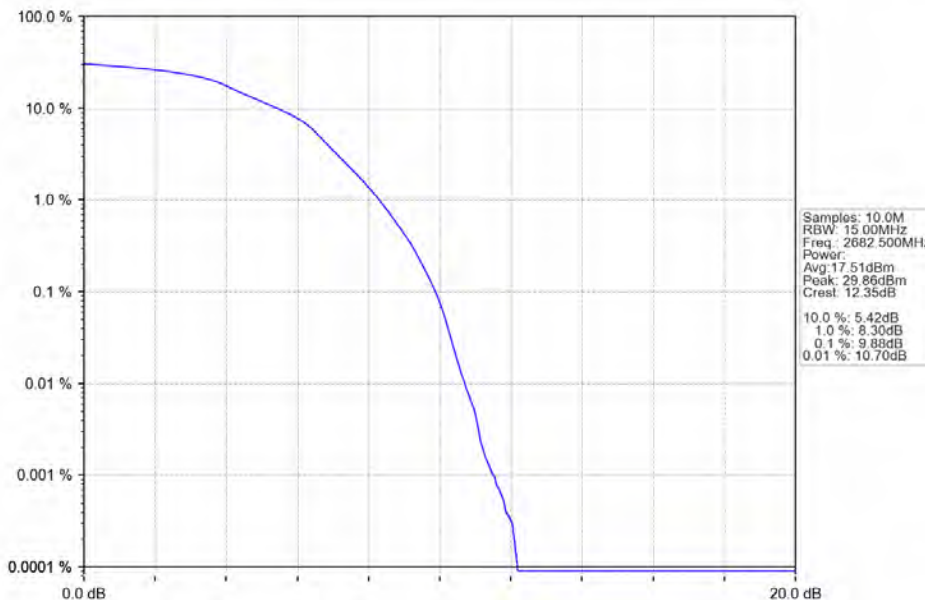
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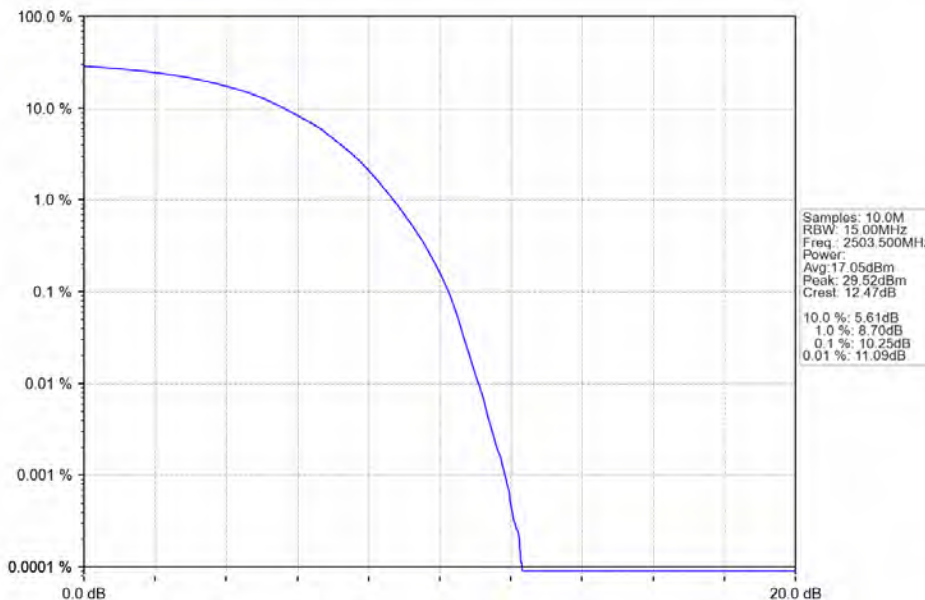
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Band41_15MHz_64QAM_LCH_2503.5MHz_RB_75_0_NTNV



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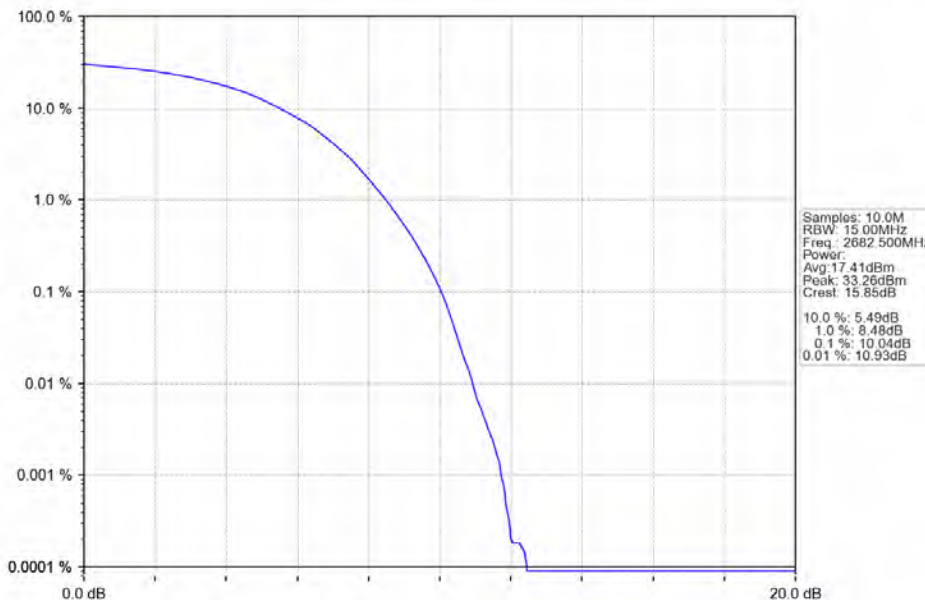
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Band41_15MHz_64QAM_HCH_2682.5MHz_RB_75_0_NTNV



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4.4 B41_20MHz

4.4.1 Test Result

Band: 41 / Bandwidth: 20MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2506	100	0	8.83	<=13	Pass
	2593	100	0	9.11	<=13	Pass
	2680	100	0	8.79	<=13	Pass
16QAM	2506	100	0	9.71	<=13	Pass
	2593	100	0	9.54	<=13	Pass
	2680	100	0	9.82	<=13	Pass
64QAM	2506	100	0	9.82	<=13	Pass
	2593	100	0	9.91	<=13	Pass
	2680	100	0	9.86	<=13	Pass



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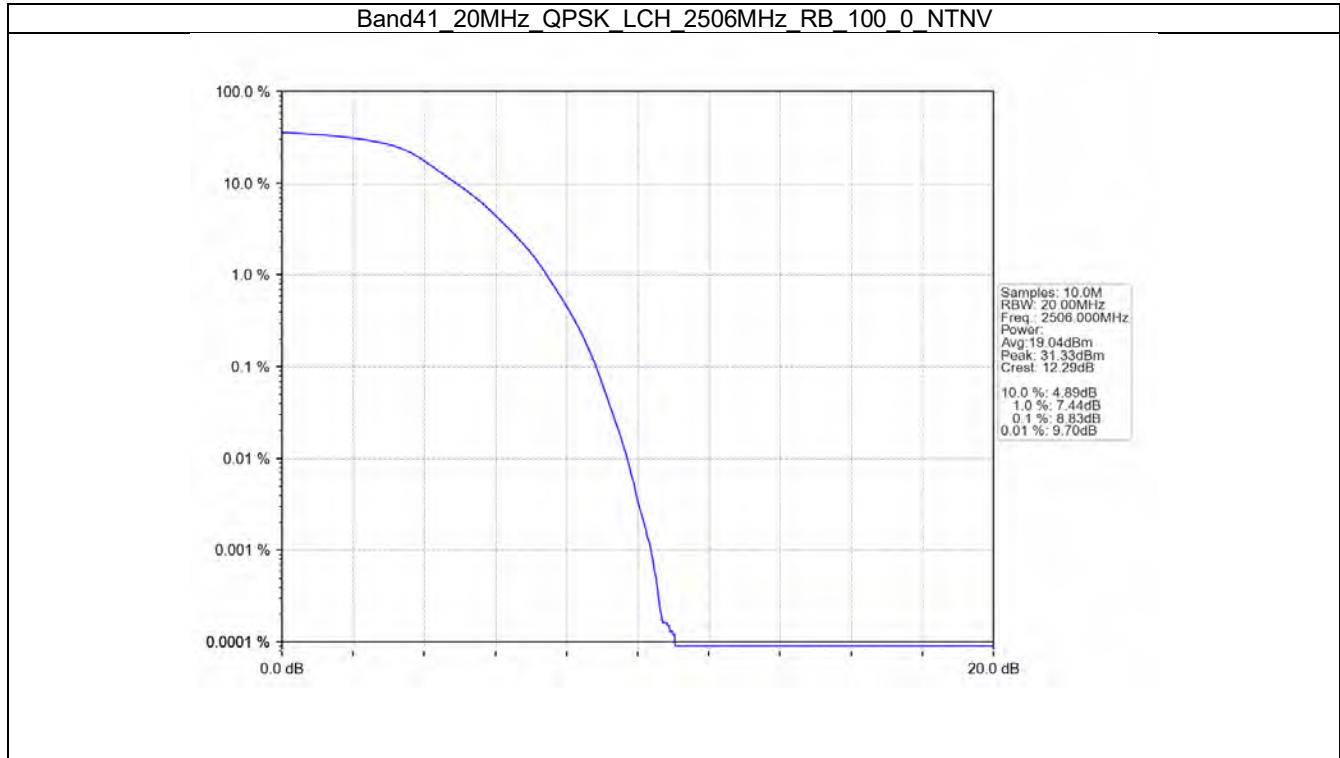
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4.4.2 Test Graph



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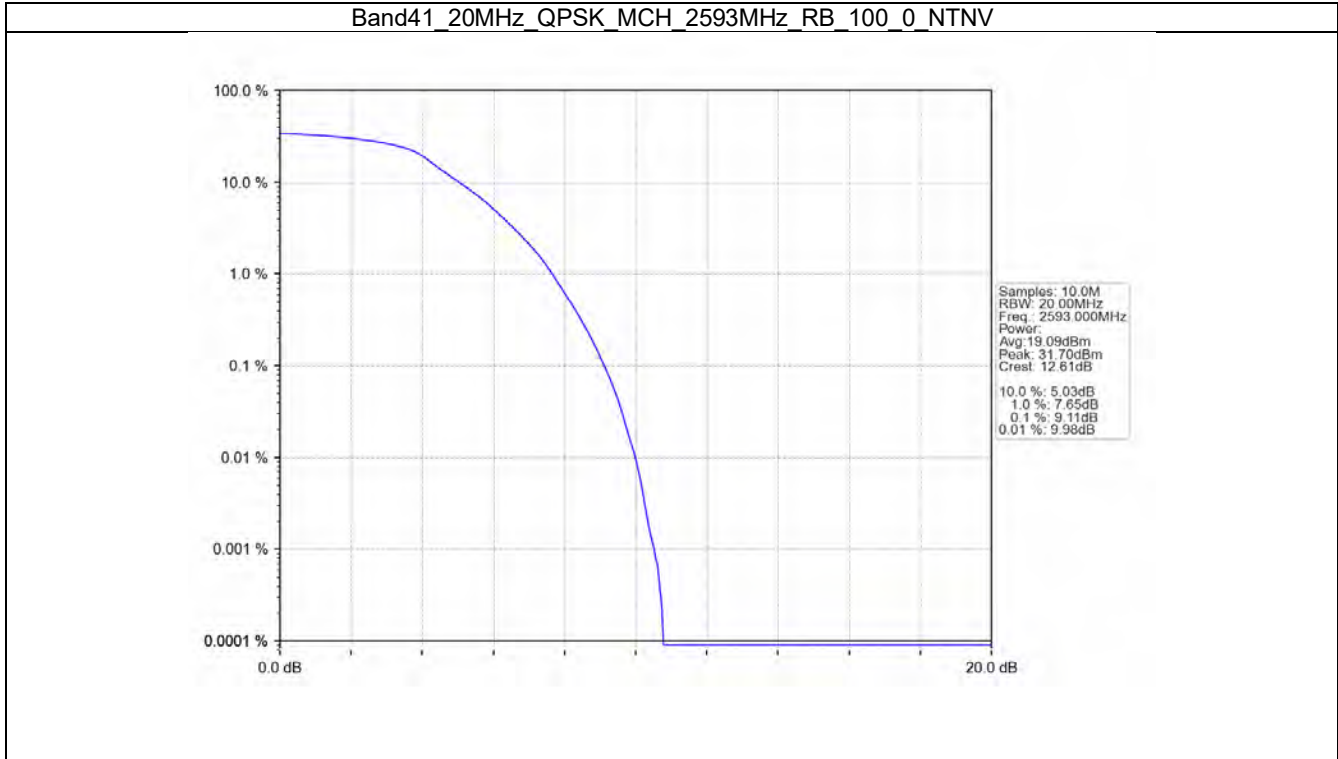
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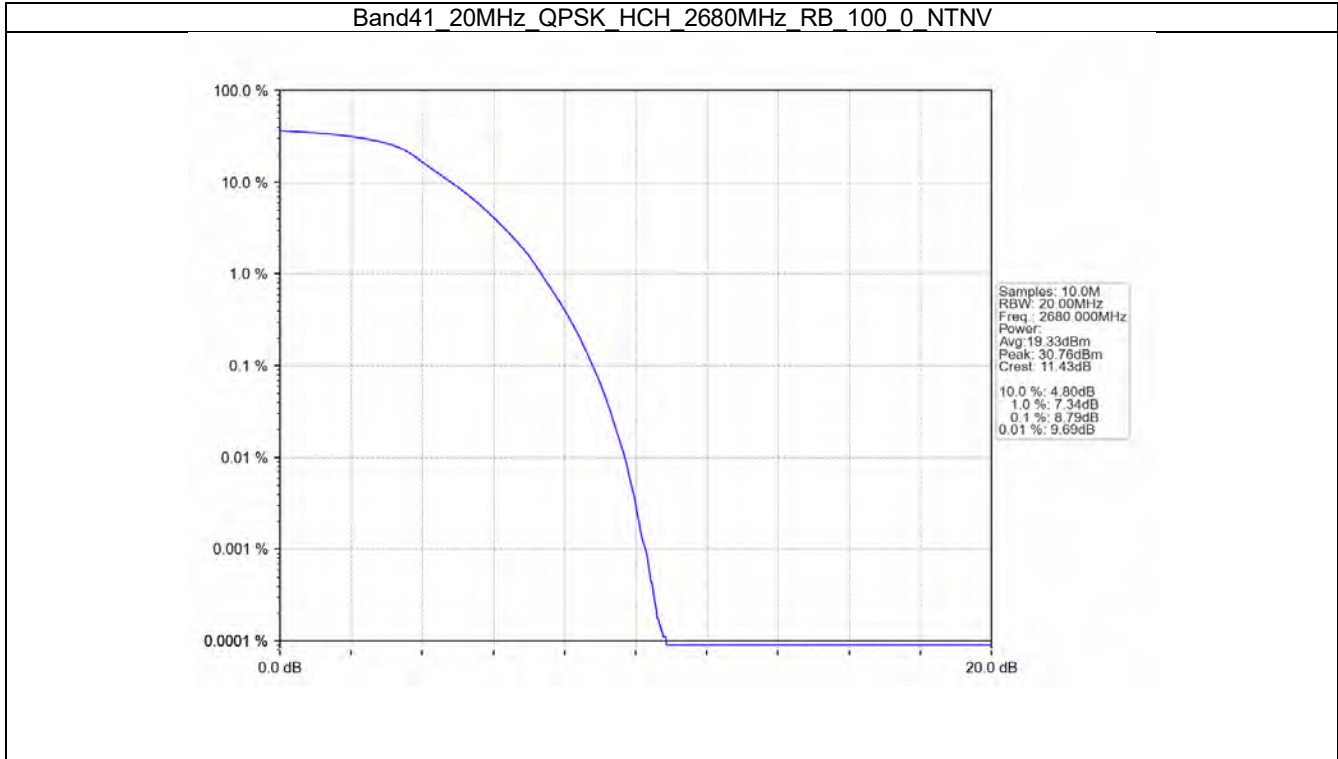
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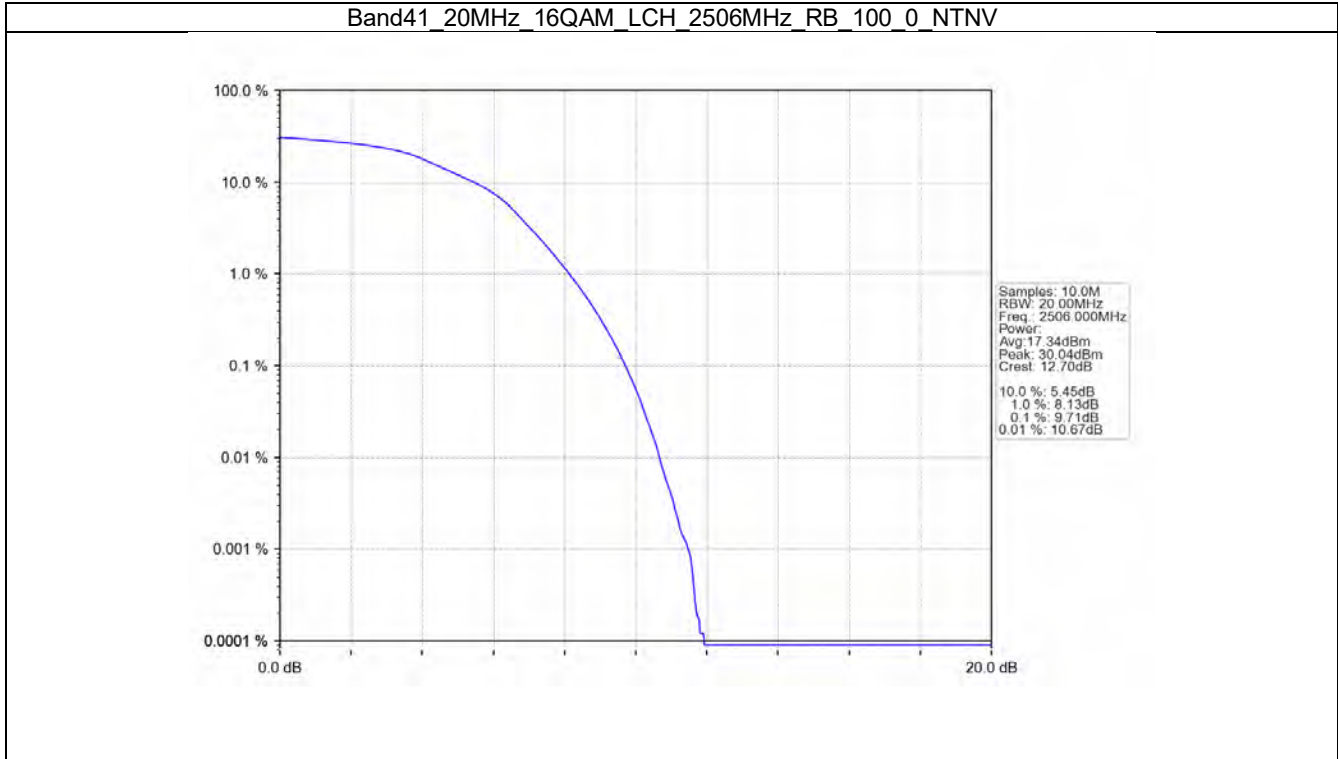
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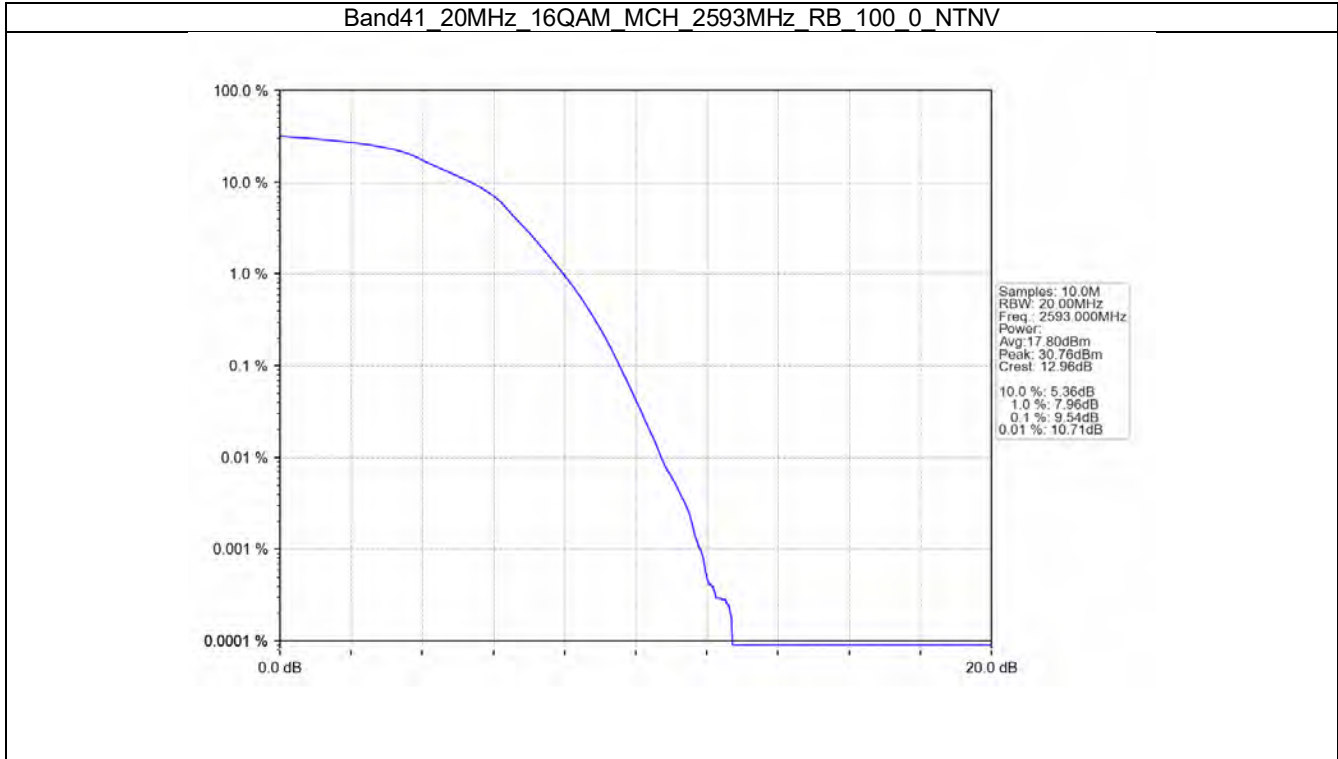
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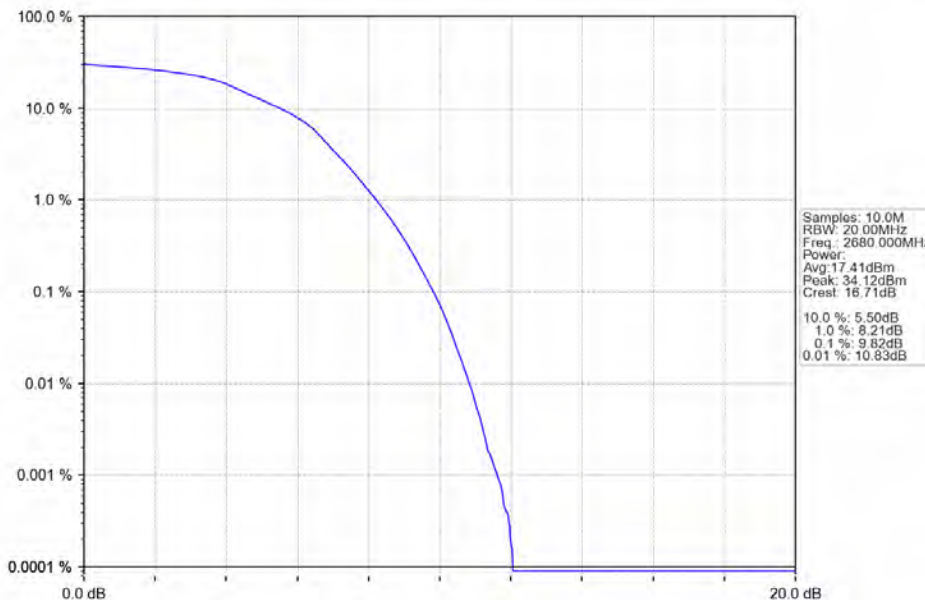
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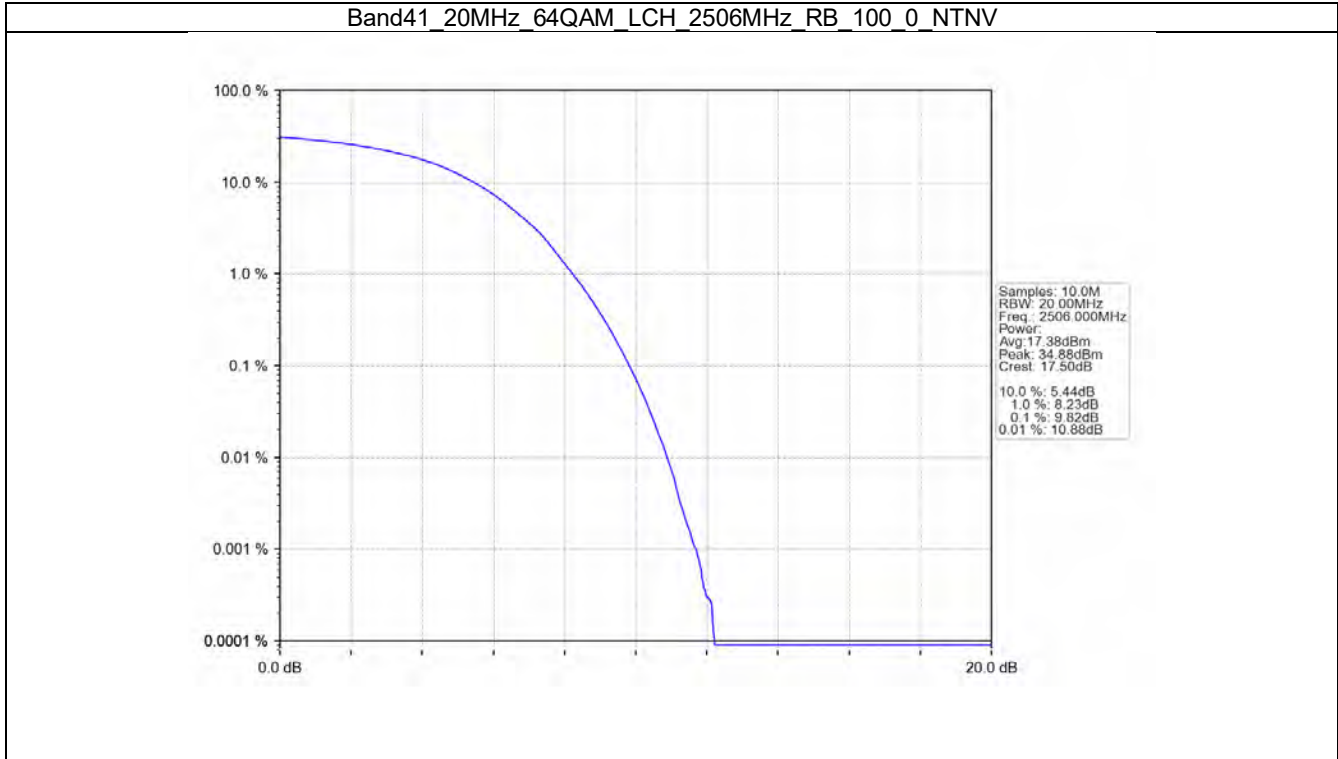
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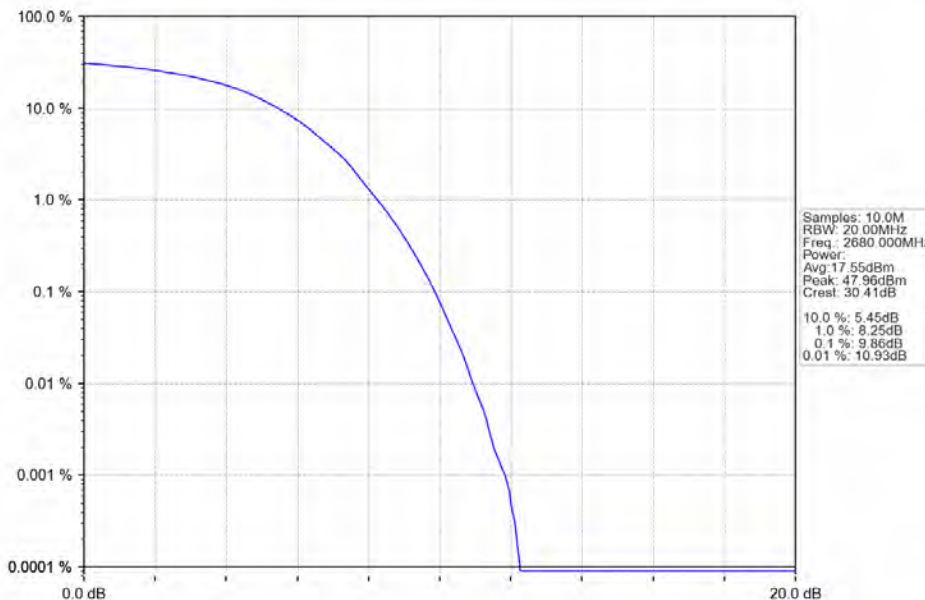
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5. Spurious Emission & Band Edges

5.1 B41_5MHz

5.1.1 Test Result

Band: 41 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2498.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	2593	1	0	Refer To Test Graph		Pass
	2687.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
16QAM	2498.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	2593	1	0	Refer To Test Graph		Pass
	2687.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
64QAM	2498.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	2593	1	0	Refer To Test Graph		Pass
	2687.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass



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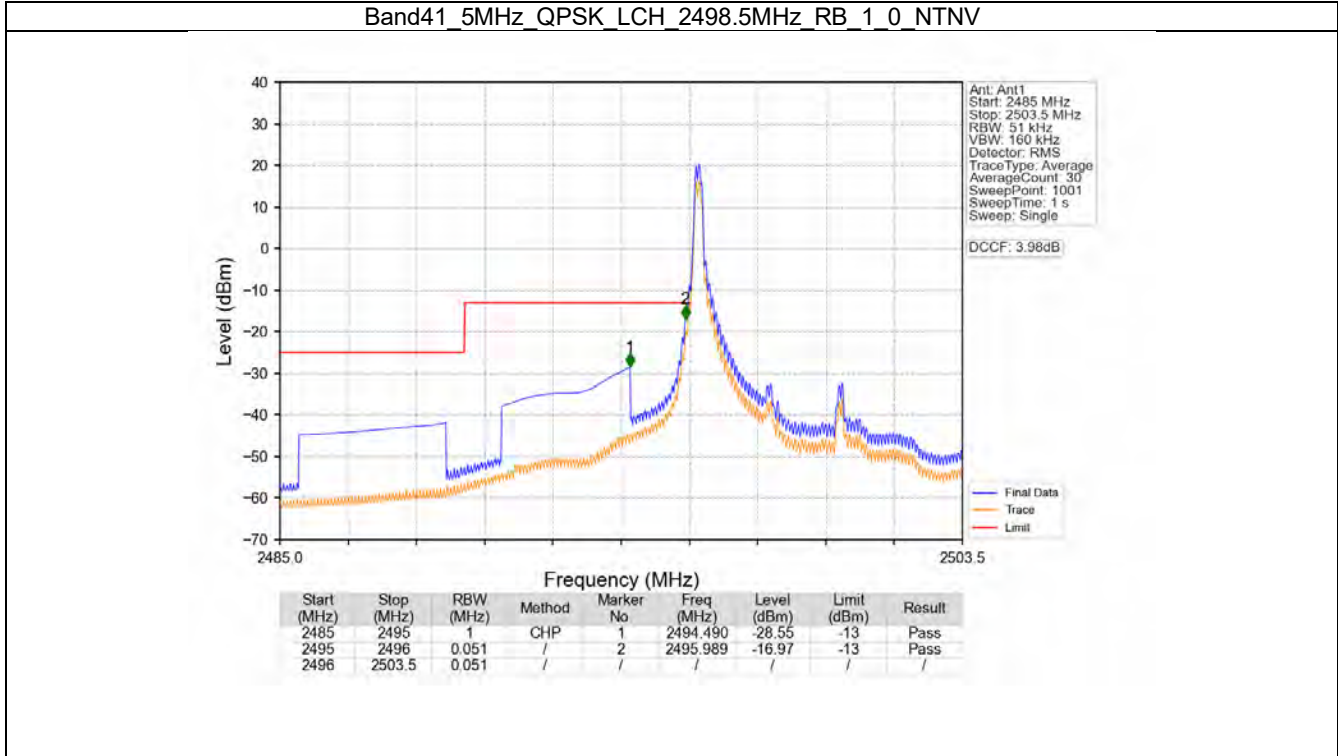
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5.1.2 Test Graph



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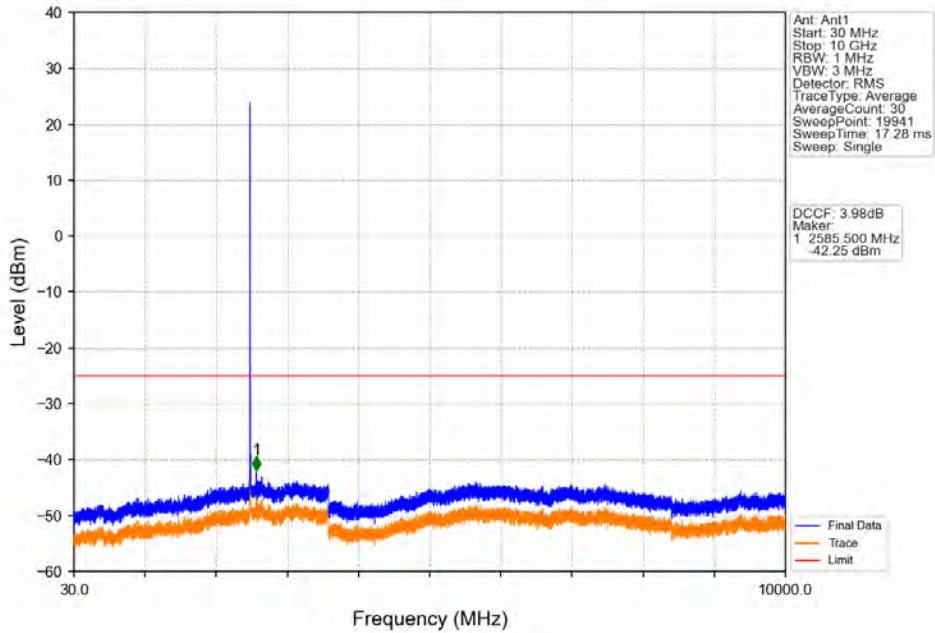
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Band41_5MHz_QPSK_LCH_2498.5MHz_RB_1_0_NTNV



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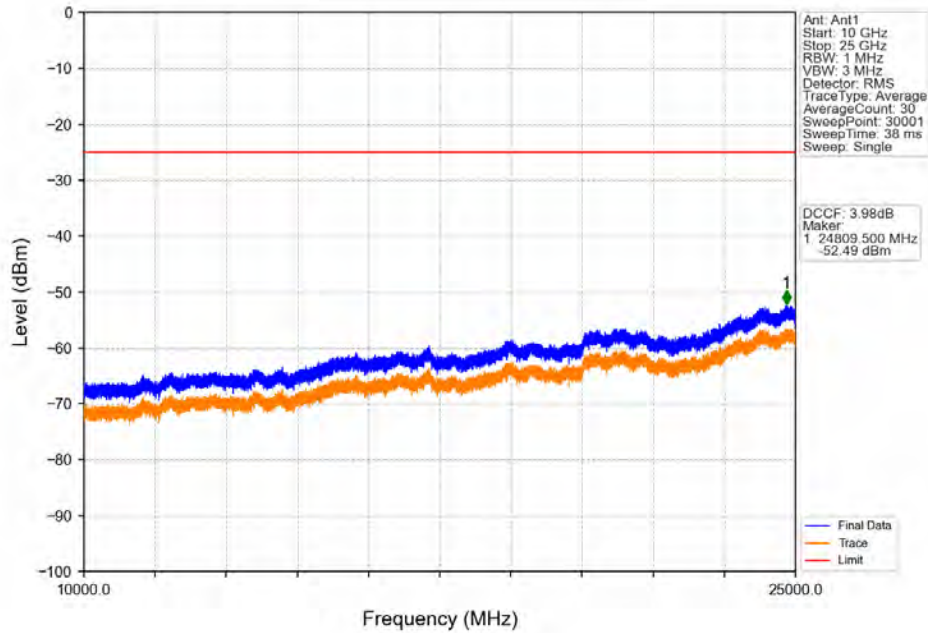
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Band41_5MHz_QPSK_LCH_2498.5MHz_RB_1_0_NTNV



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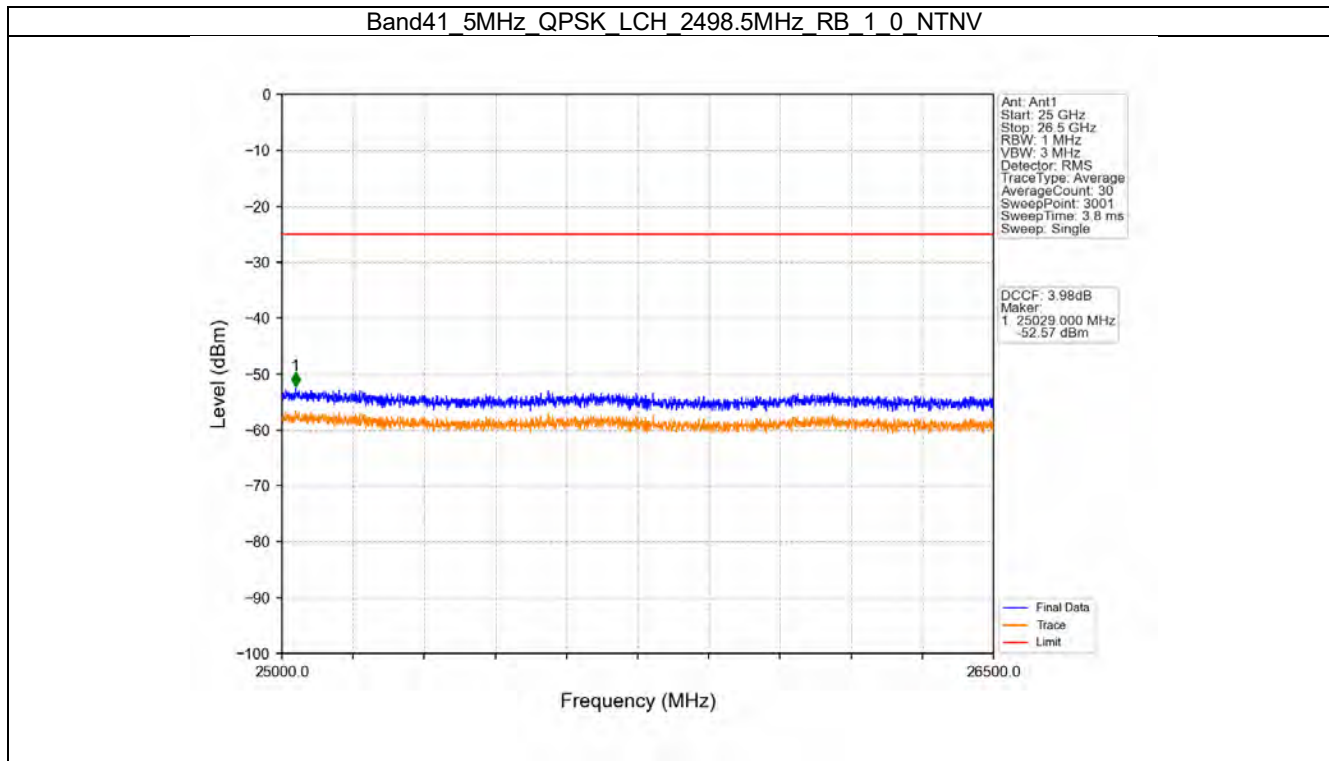


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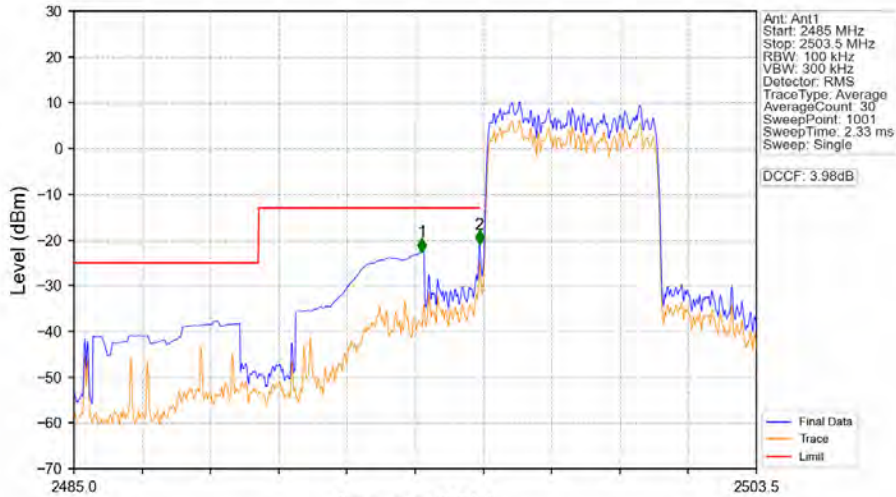
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Band41_5MHz_QPSK_LCH_2498.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2495	1	CHP	1	2494.435	-22.67	-13	Pass
2495	2496	0.1	/	2	2495.989	-20.98	-13	Pass
2496	2503.5	0.101	/	/	/	/	/	/



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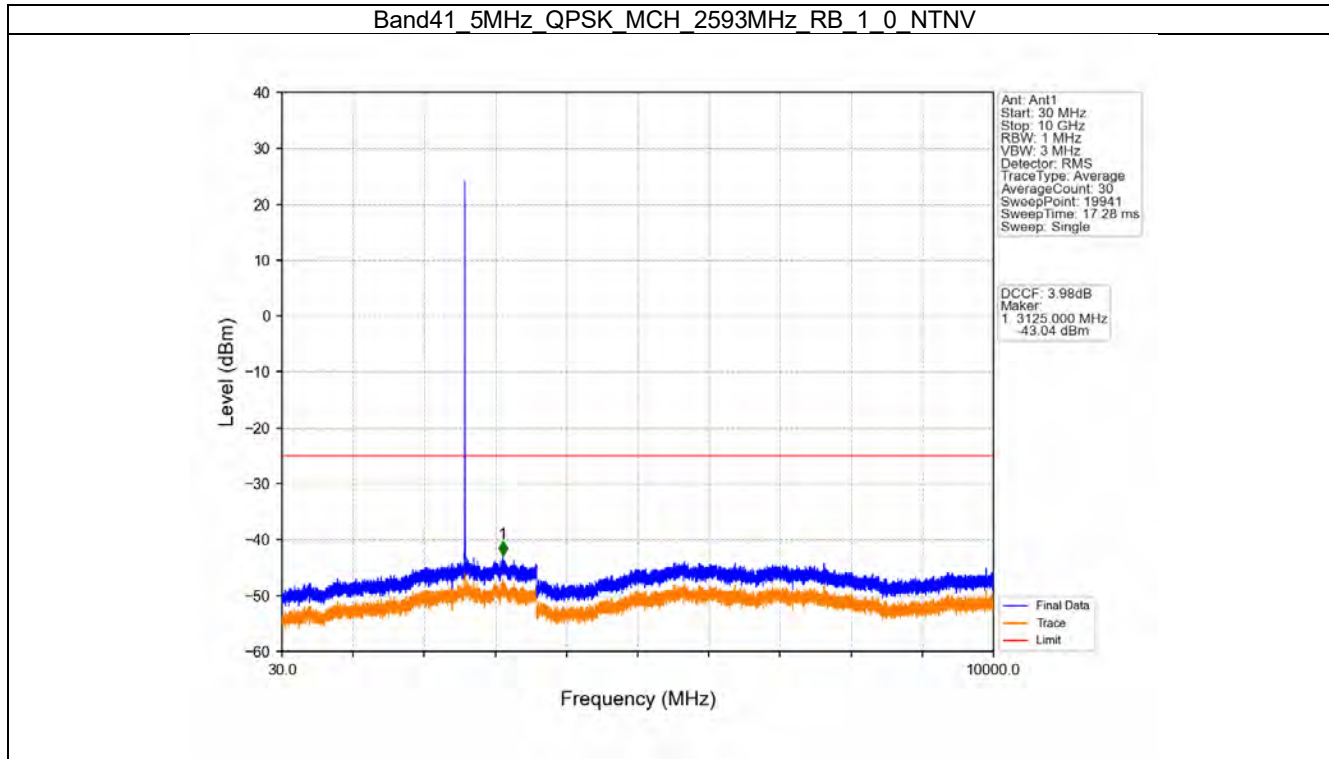


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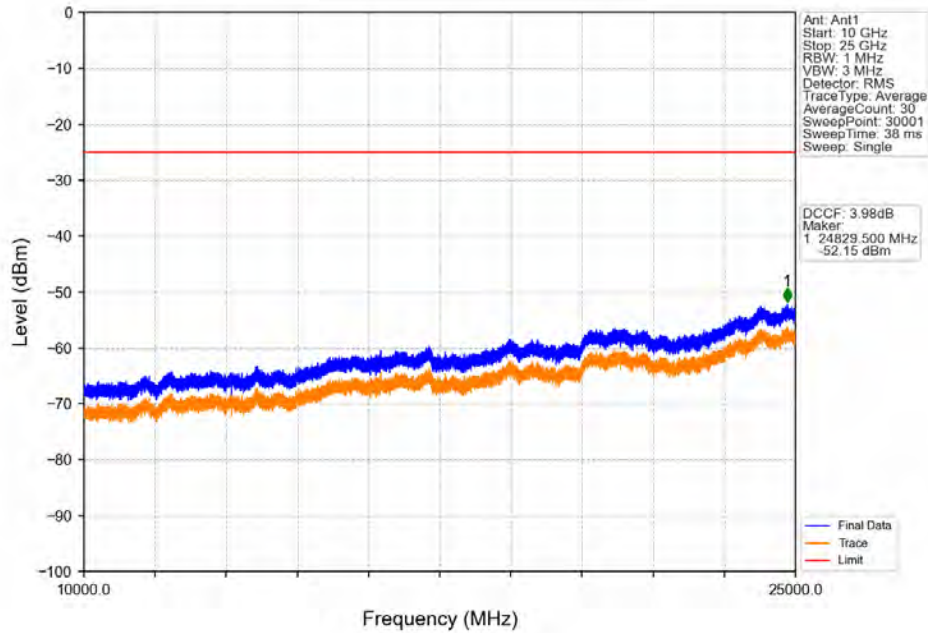
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Band41_5MHz_QPSK_MCH_2593MHz_RB_1_0_NTNV



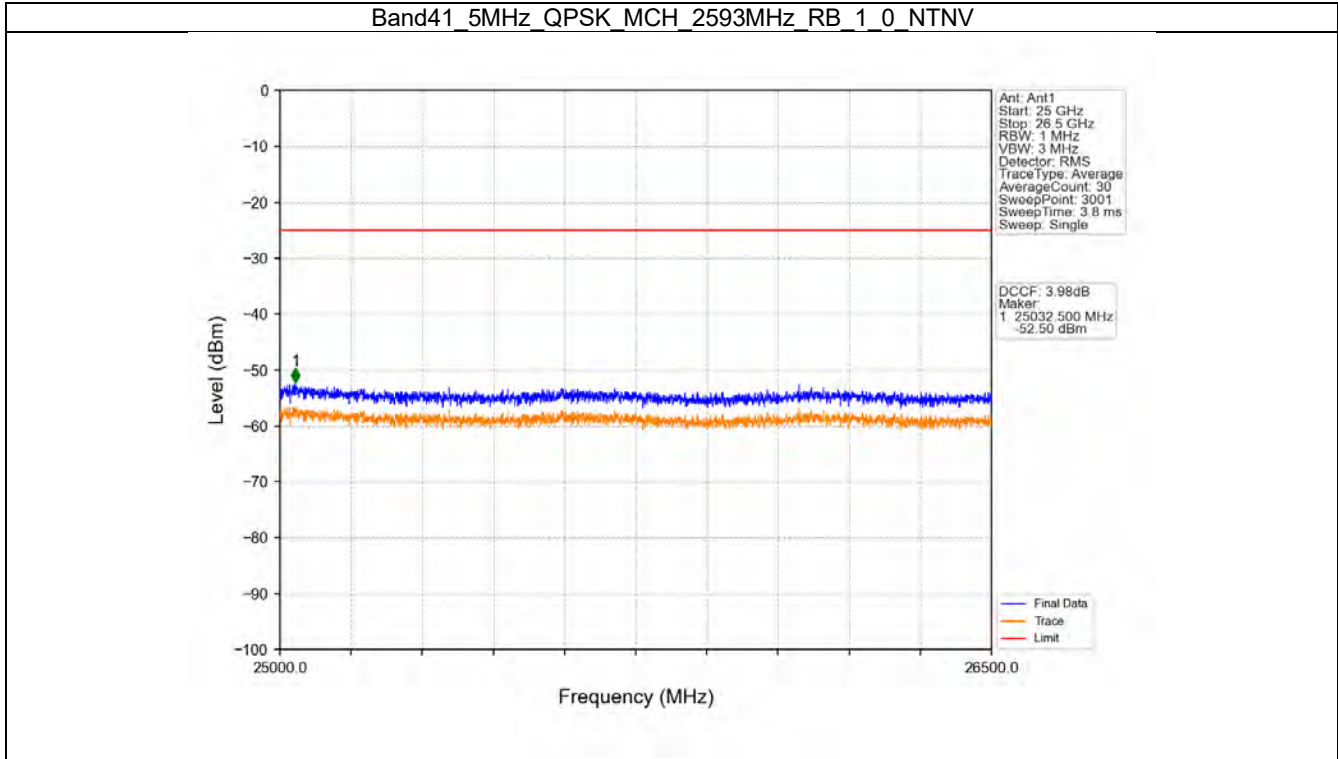
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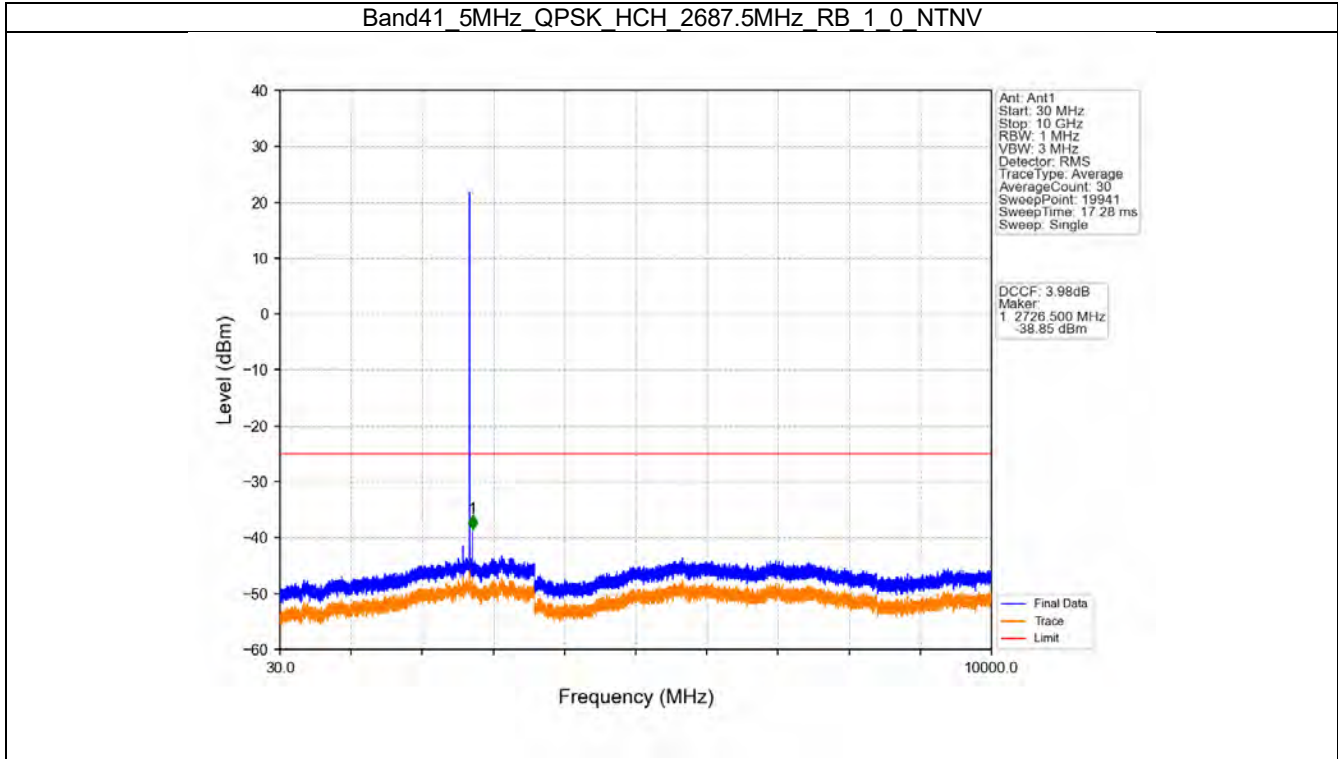
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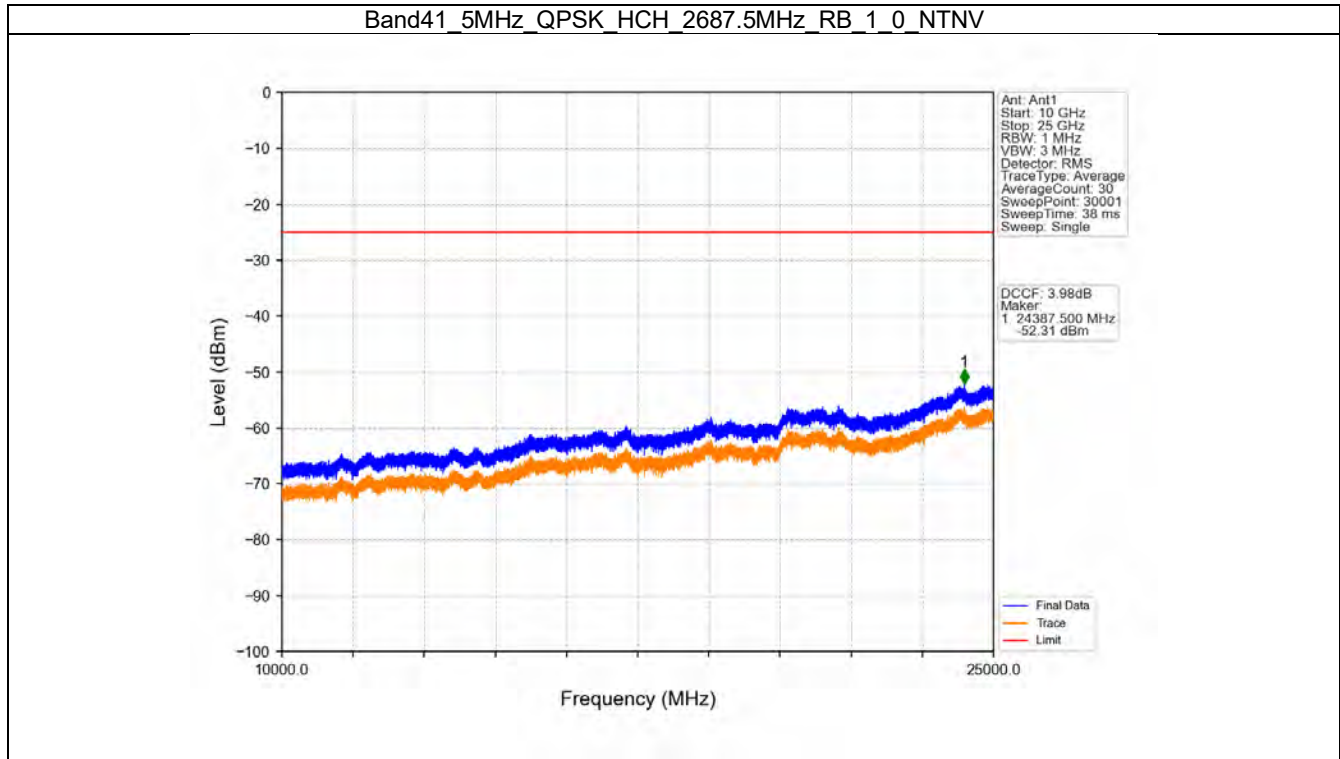


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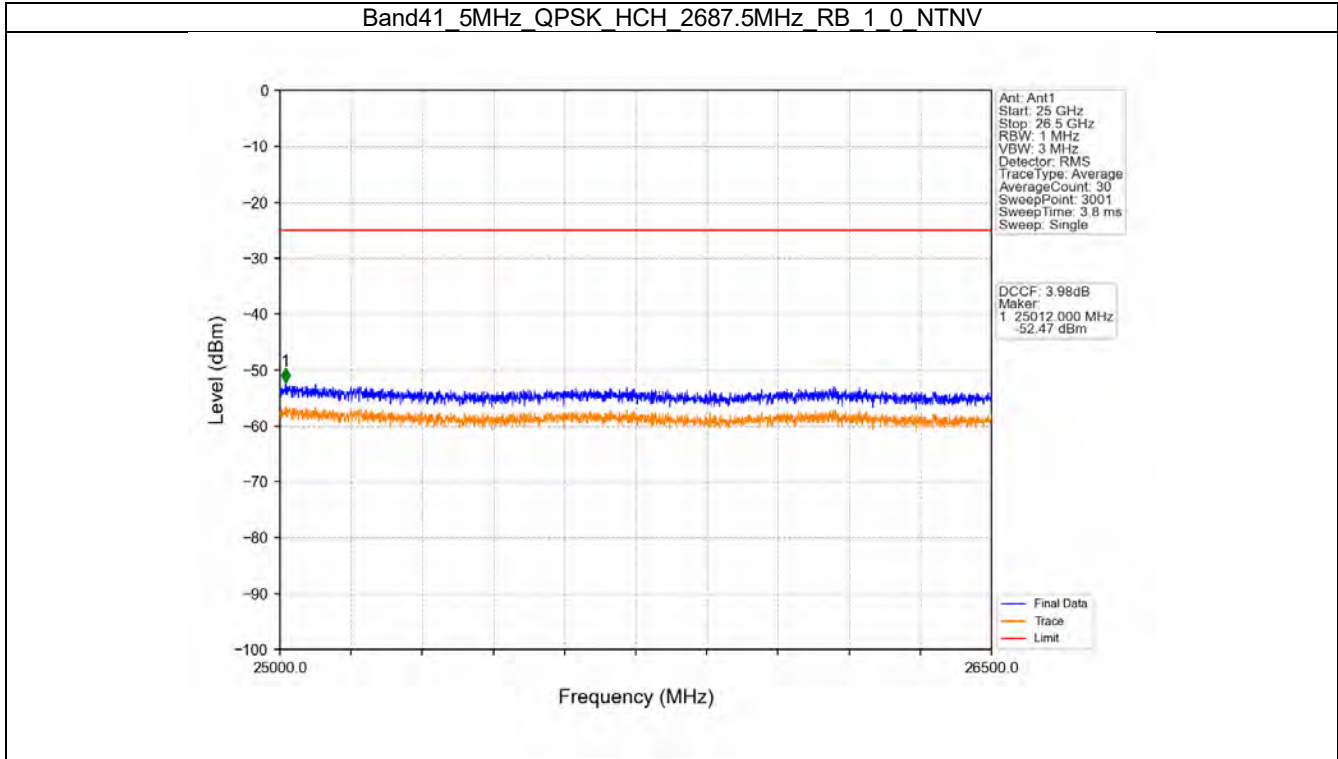
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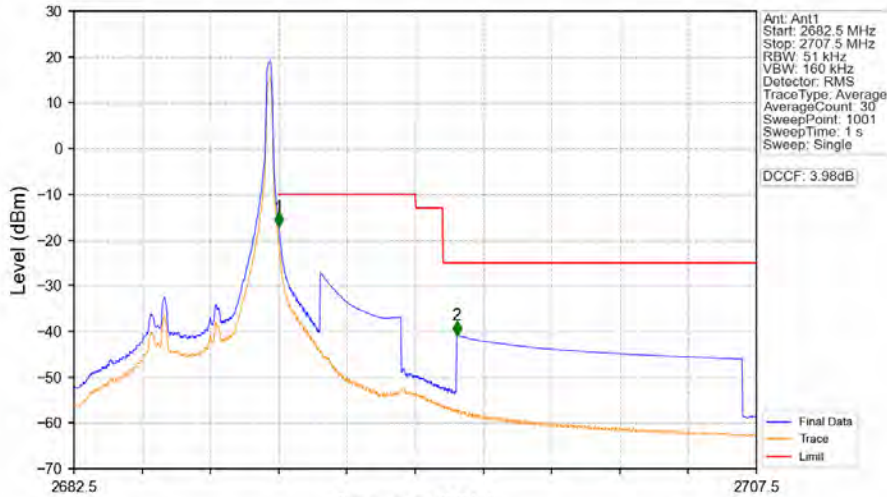
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Band41_5MHz_QPSK_HCH_2687.5MHz_RB_1_24_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2682.5	2690	0.051	/	1	2690.000	-17.13	-10	Pass
2691	2707.5	1	CHP	2	2696.525	-40.81	-25	Pass



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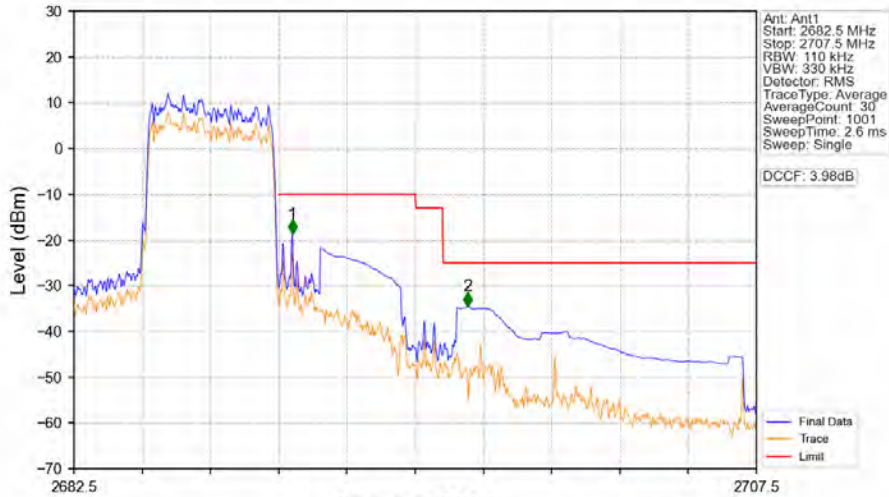
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Band41_5MHz_QPSK_HCH_2687.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2682.5	2690	0.11	/	1	2690.500	-18.66	-10	Pass
2691	2707.5	1	CHP	2	2696.925	-34.49	-25	Pass



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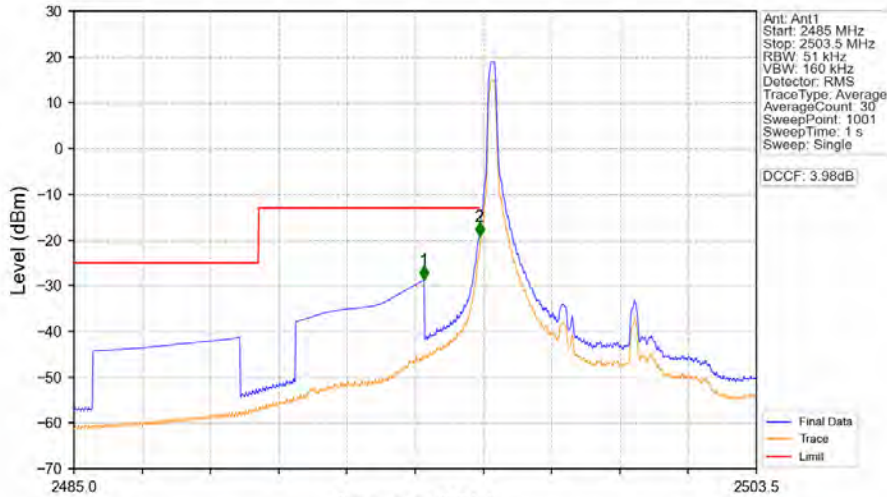
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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2495	1	CHP	1	2484.490	-28.78	-13	Pass
2495	2496	0.051	/	2	2495.989	-19.25	-13	Pass
2496	2503.5	0.051	/	/	/	/	/	/



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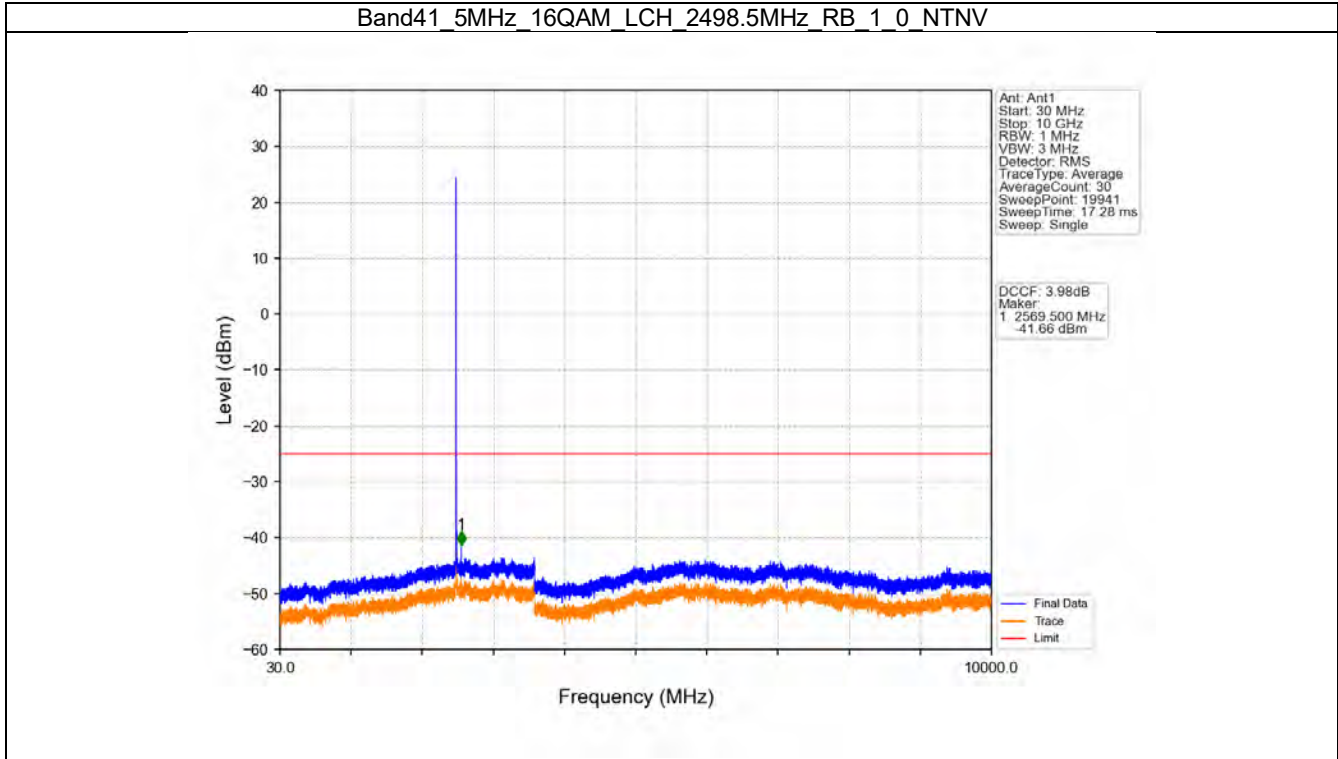
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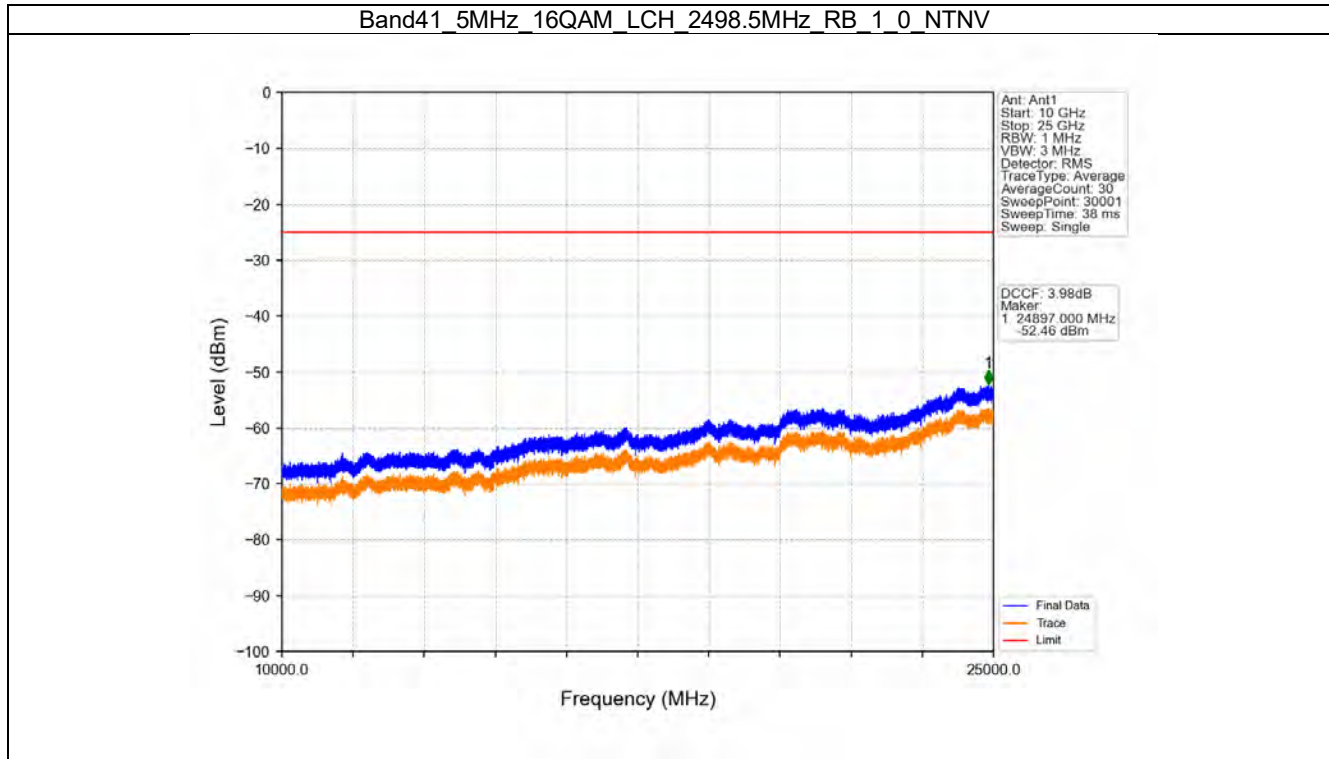


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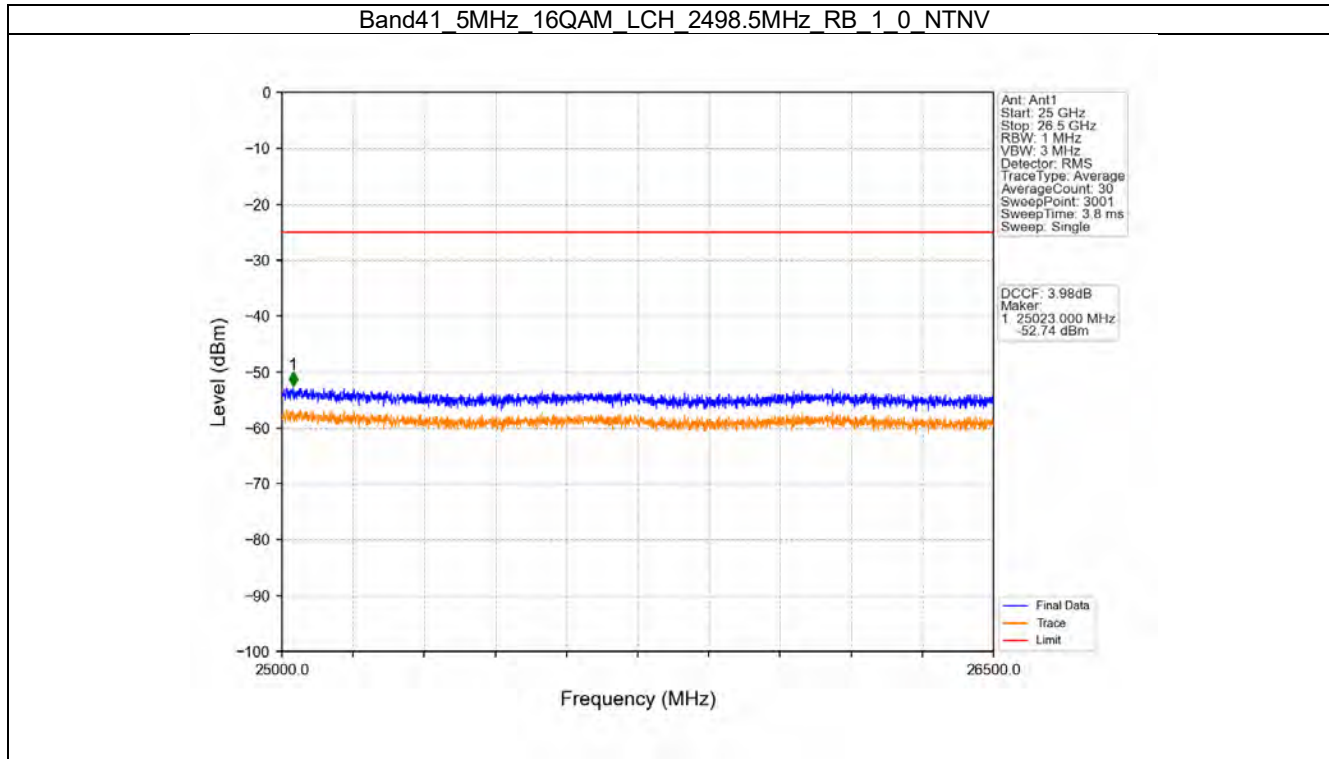


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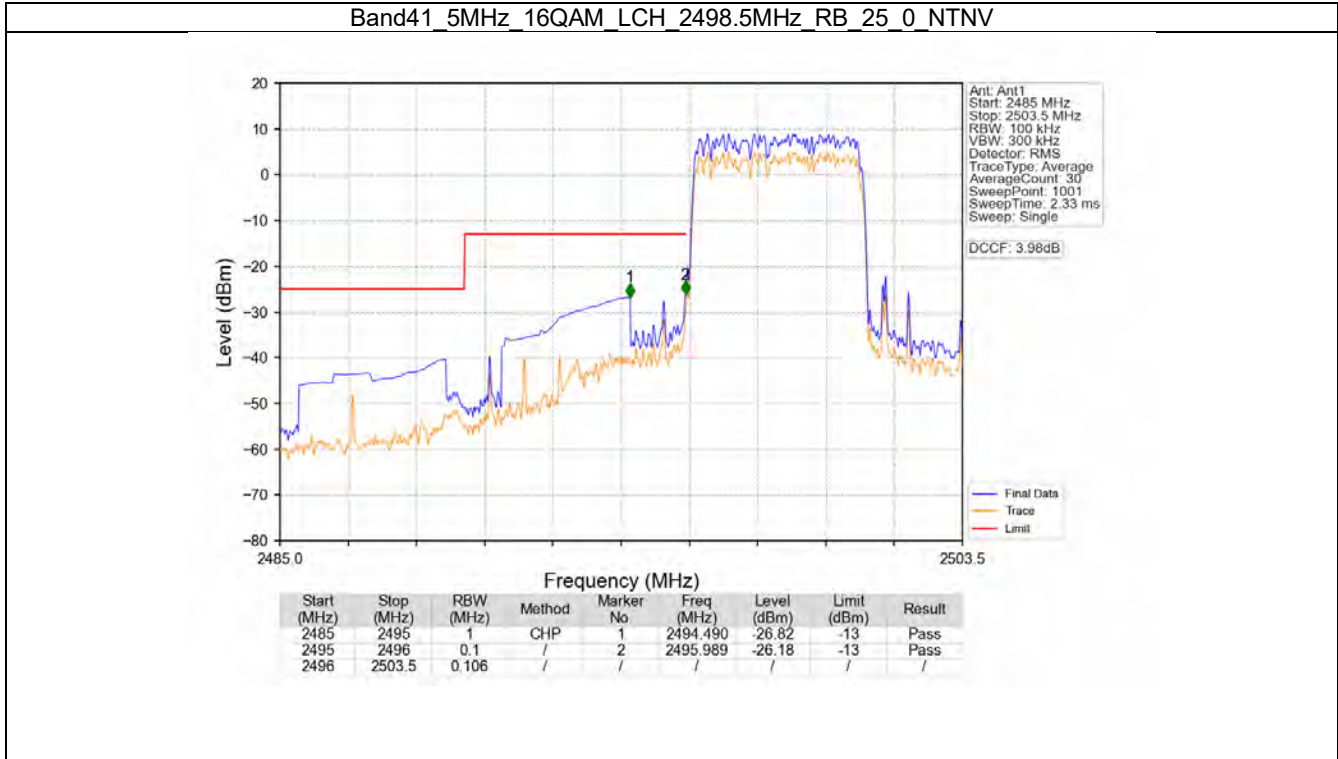
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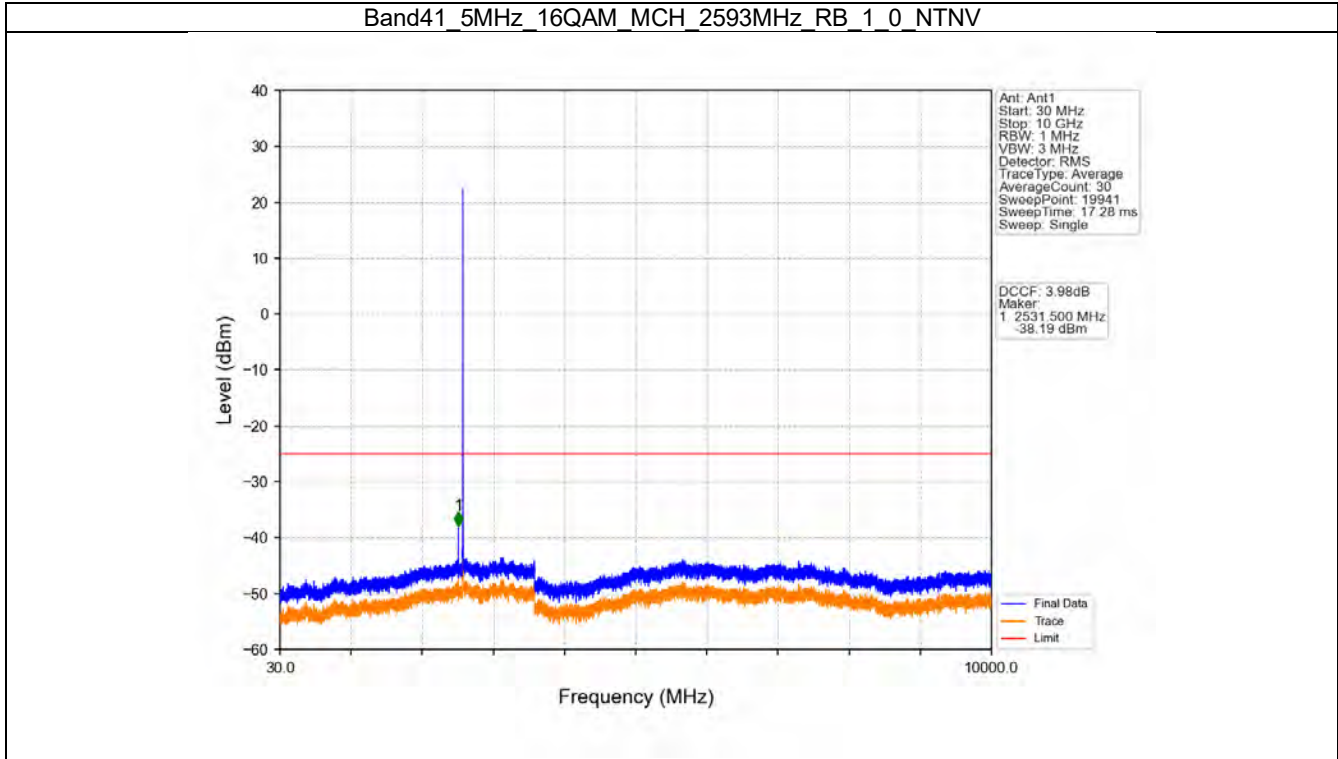
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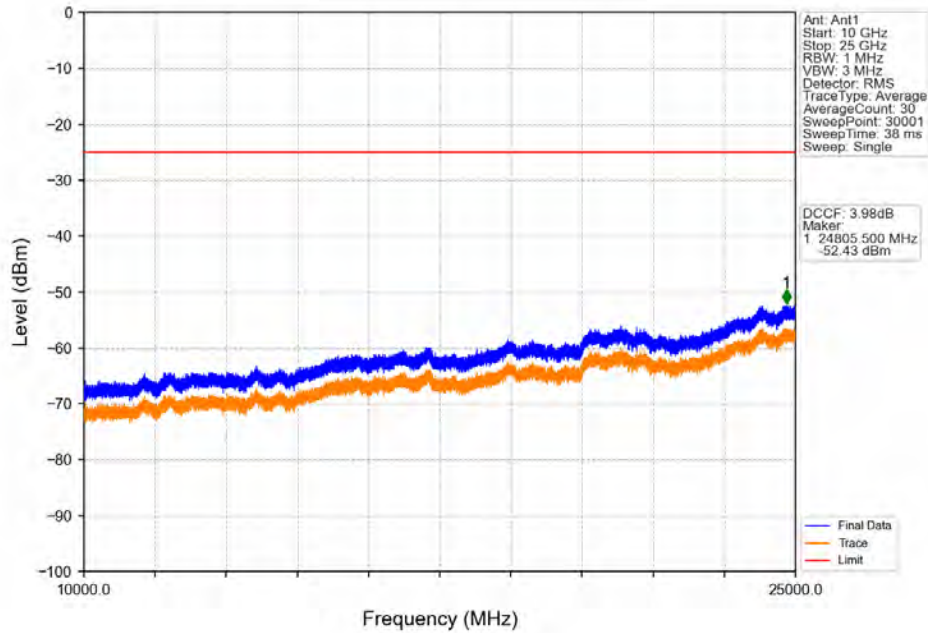
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Band41_5MHz_16QAM_MCH_2593MHz_RB_1_0_NTNV



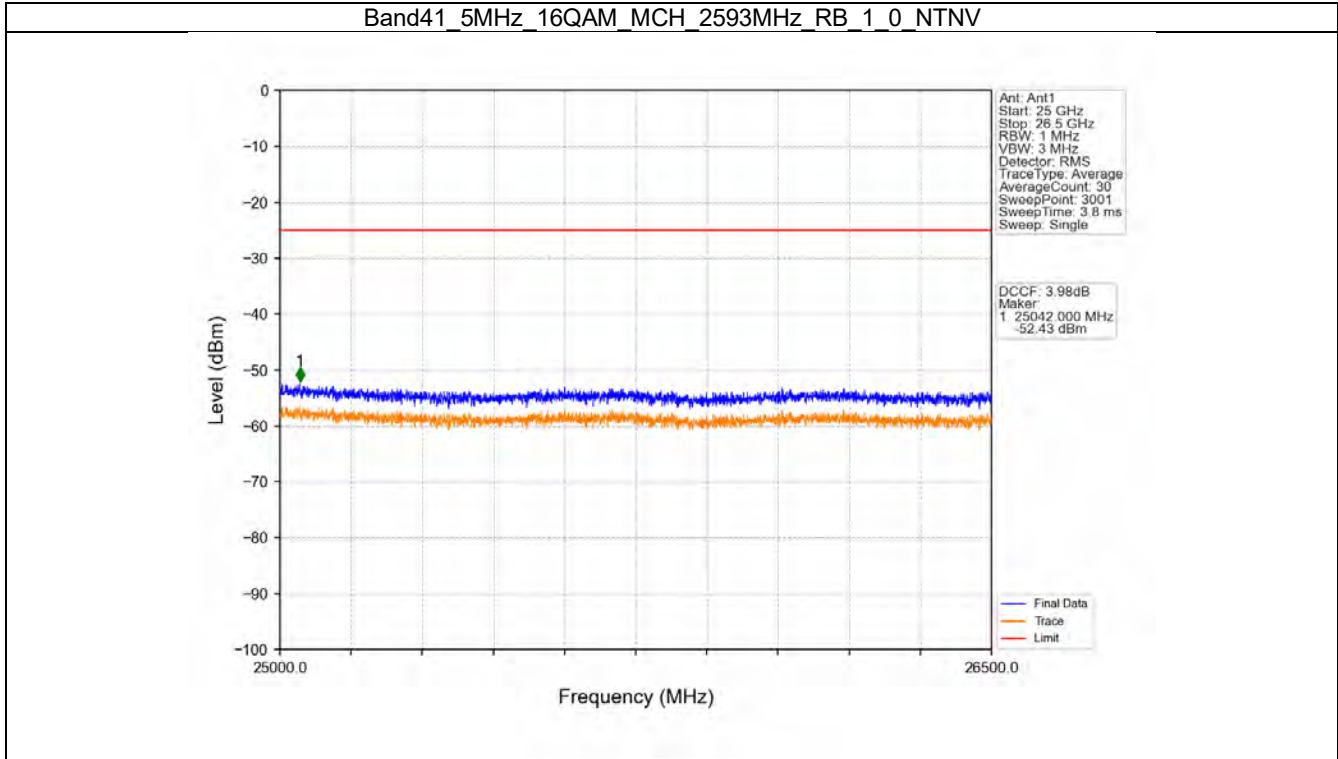
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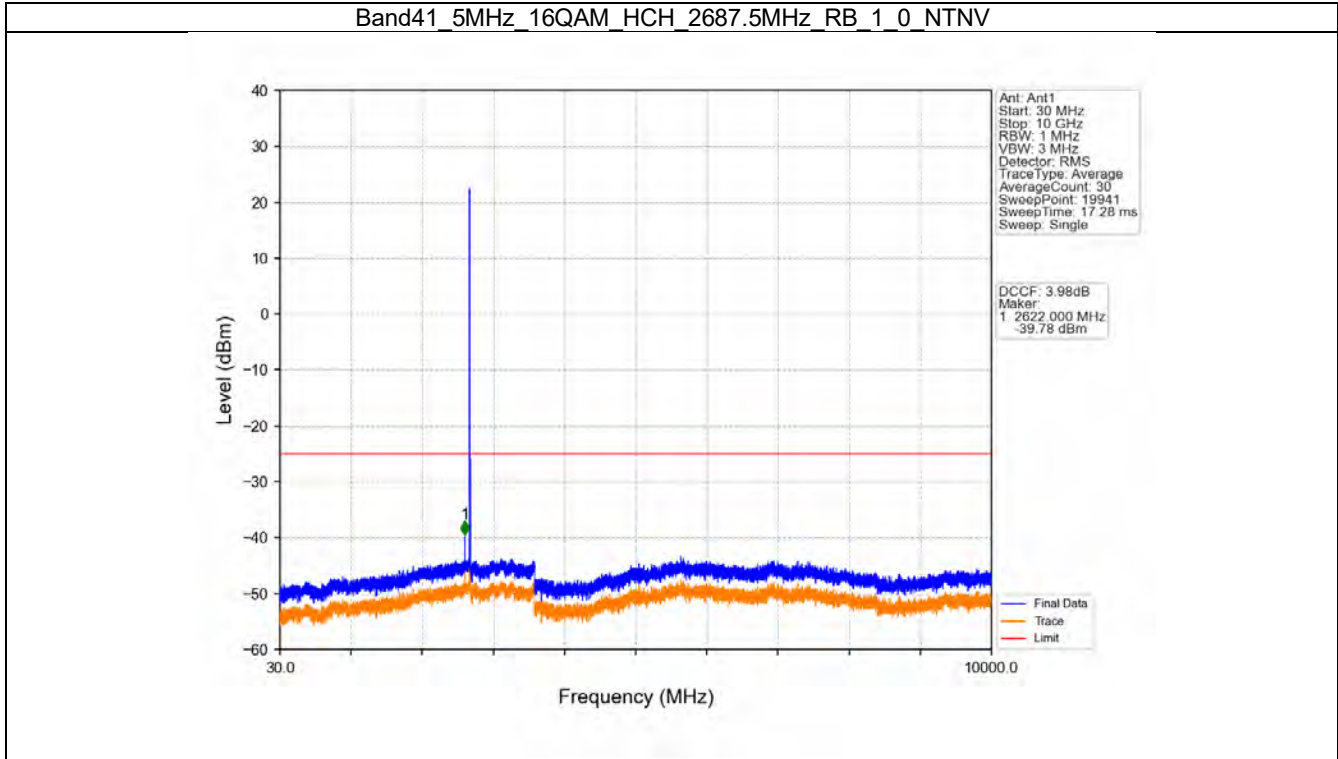
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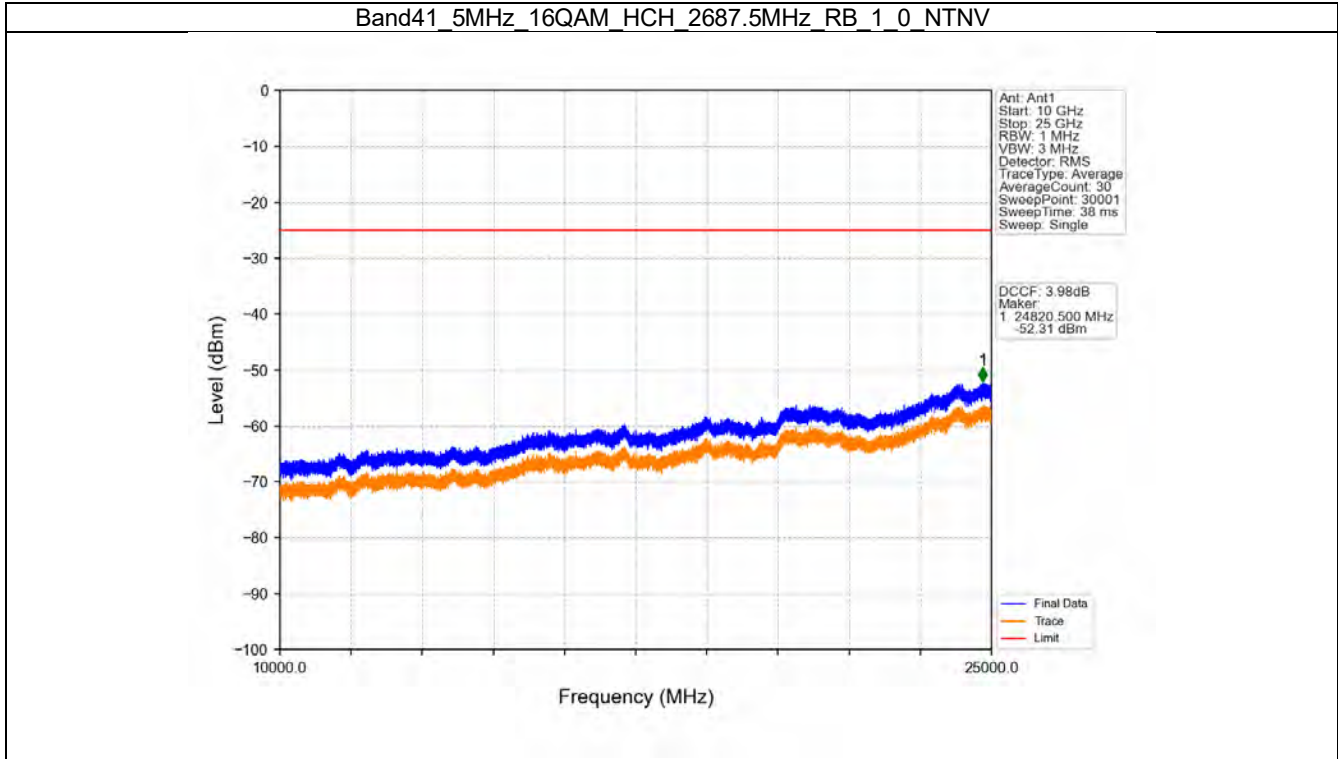
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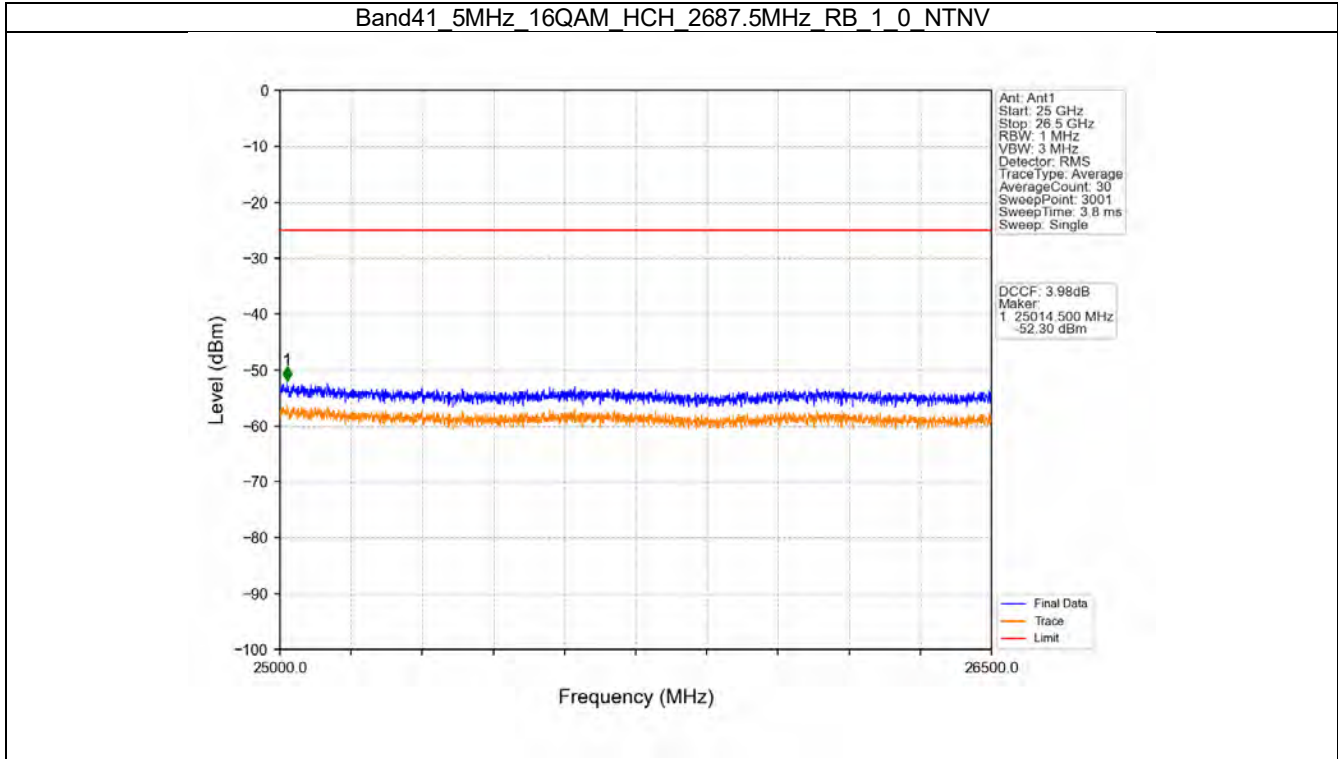
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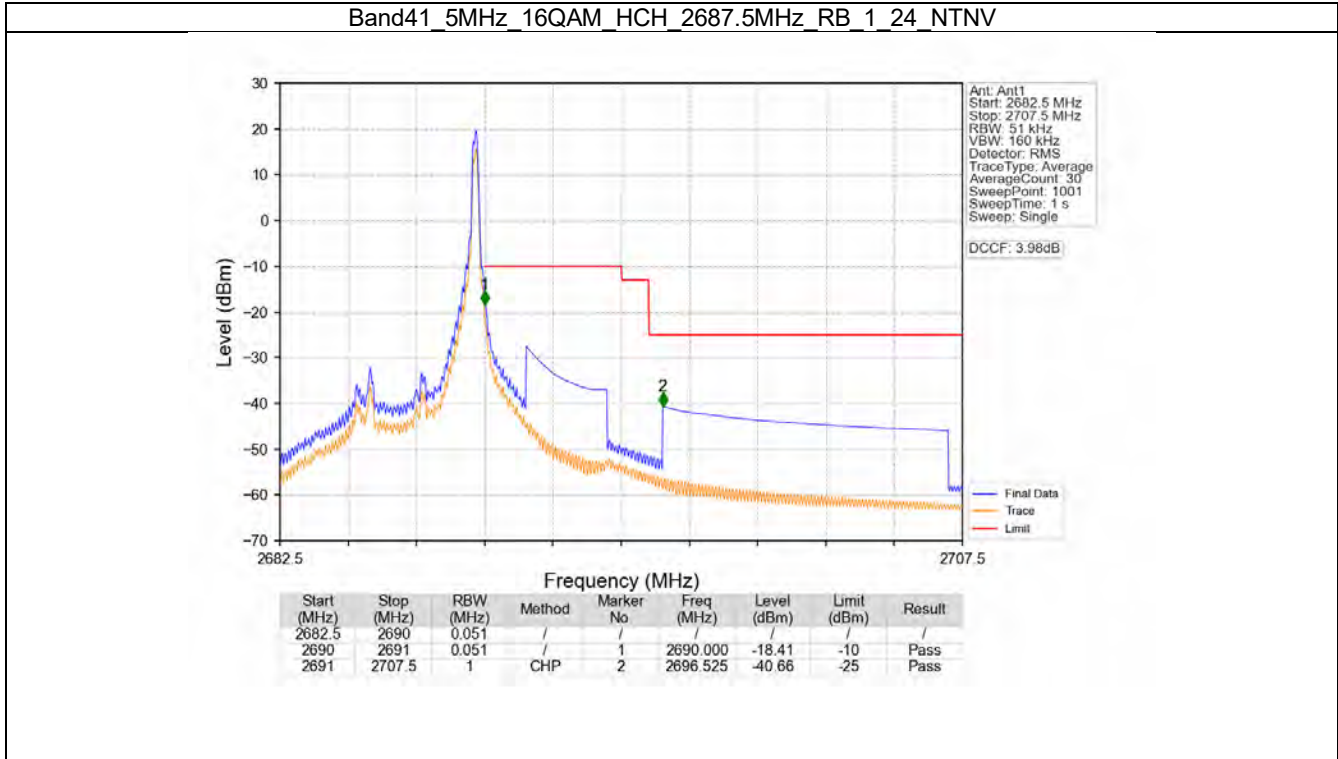
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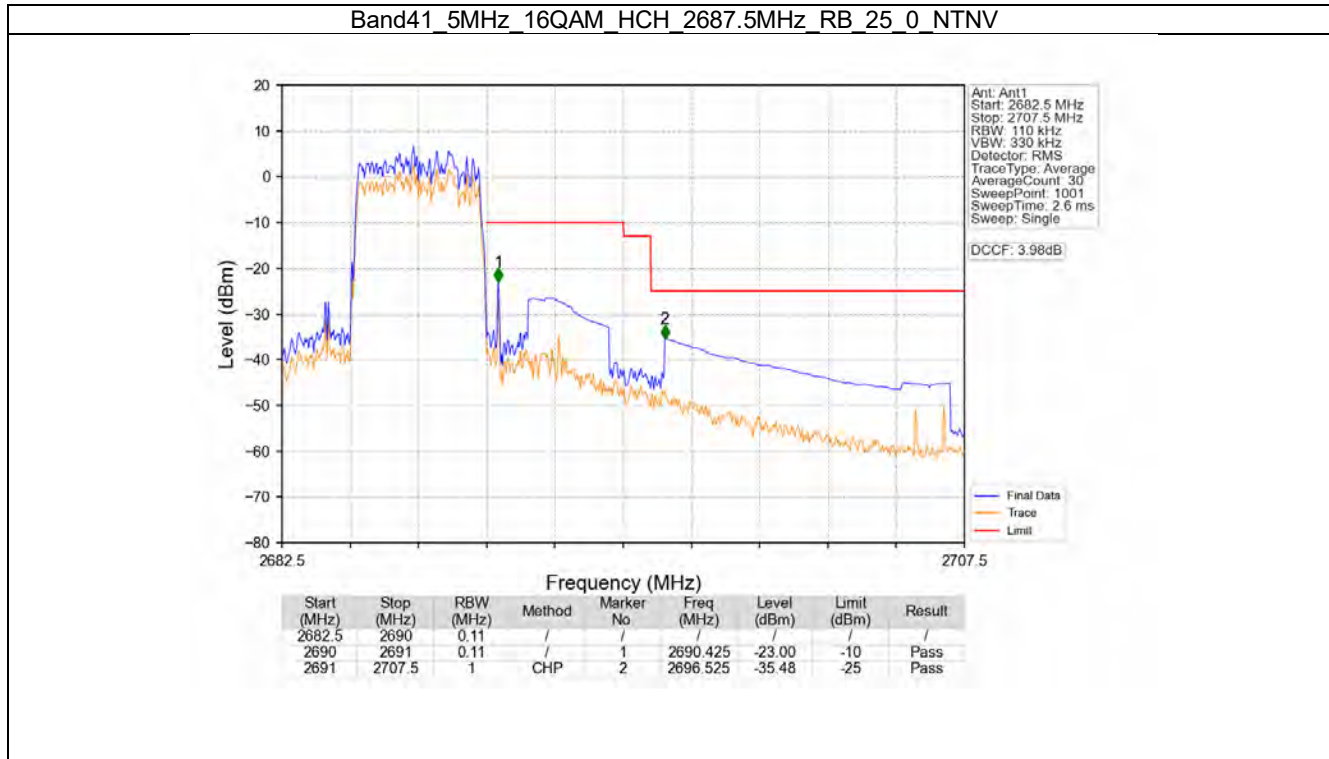
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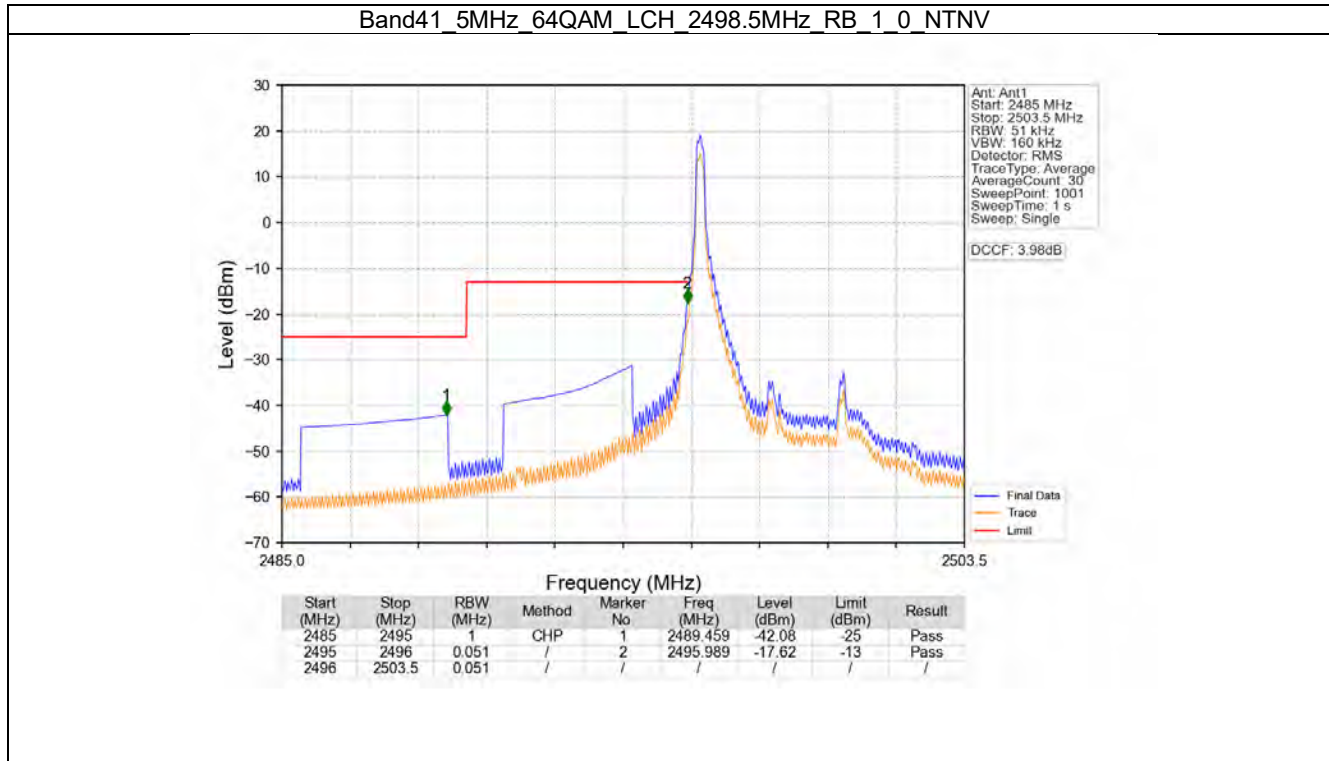
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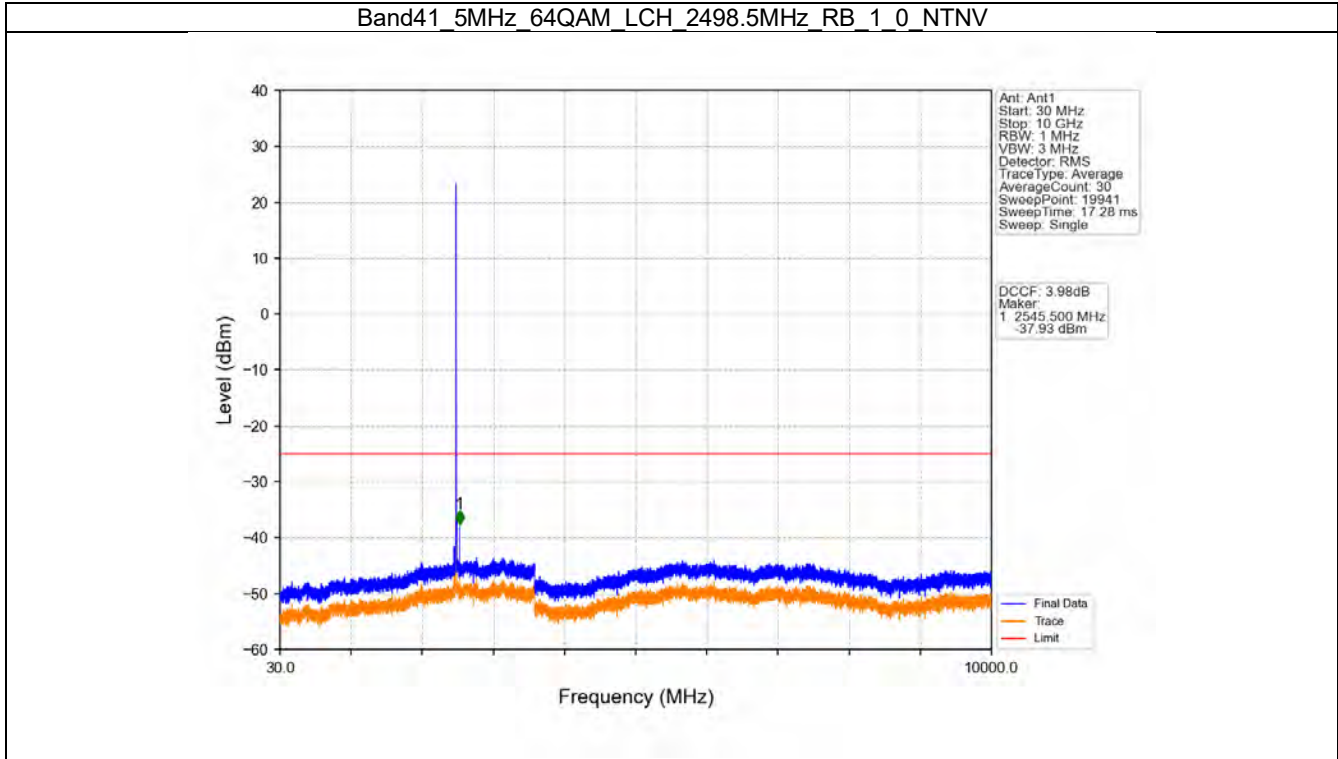
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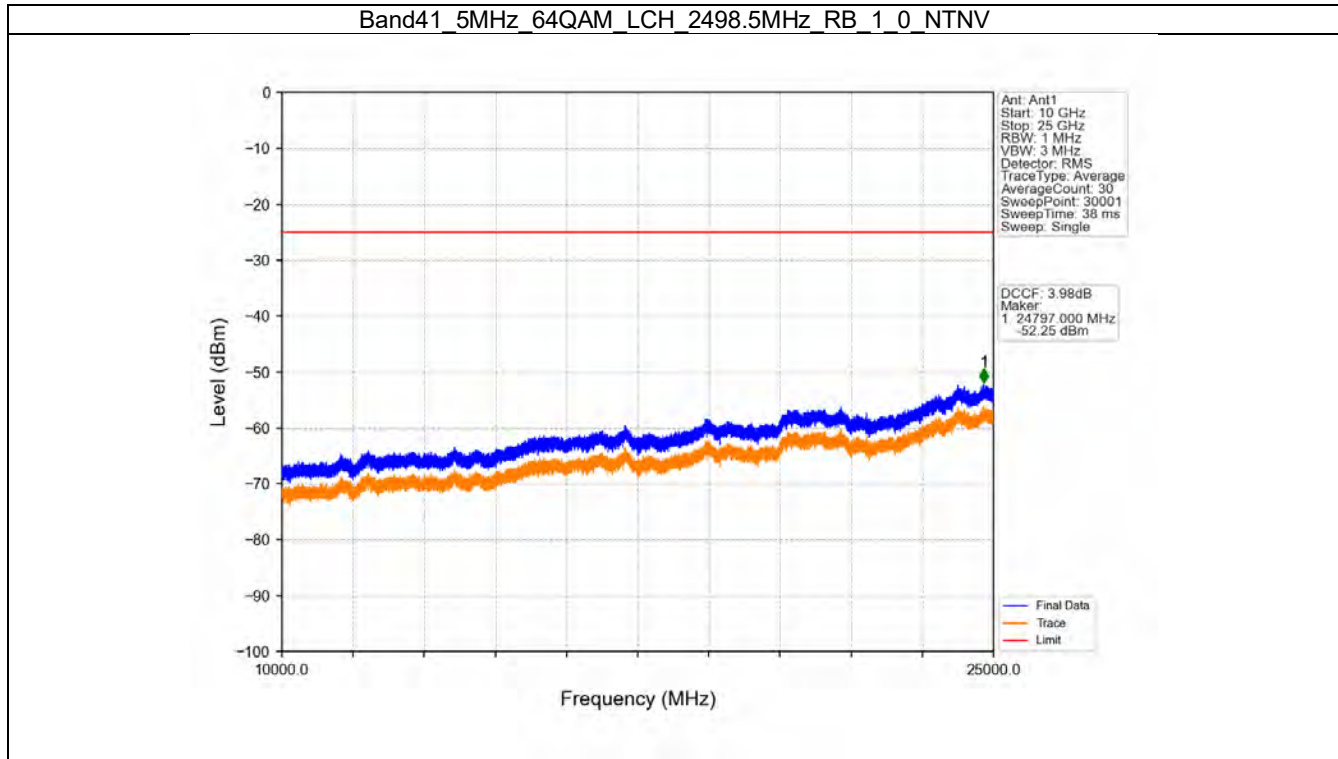


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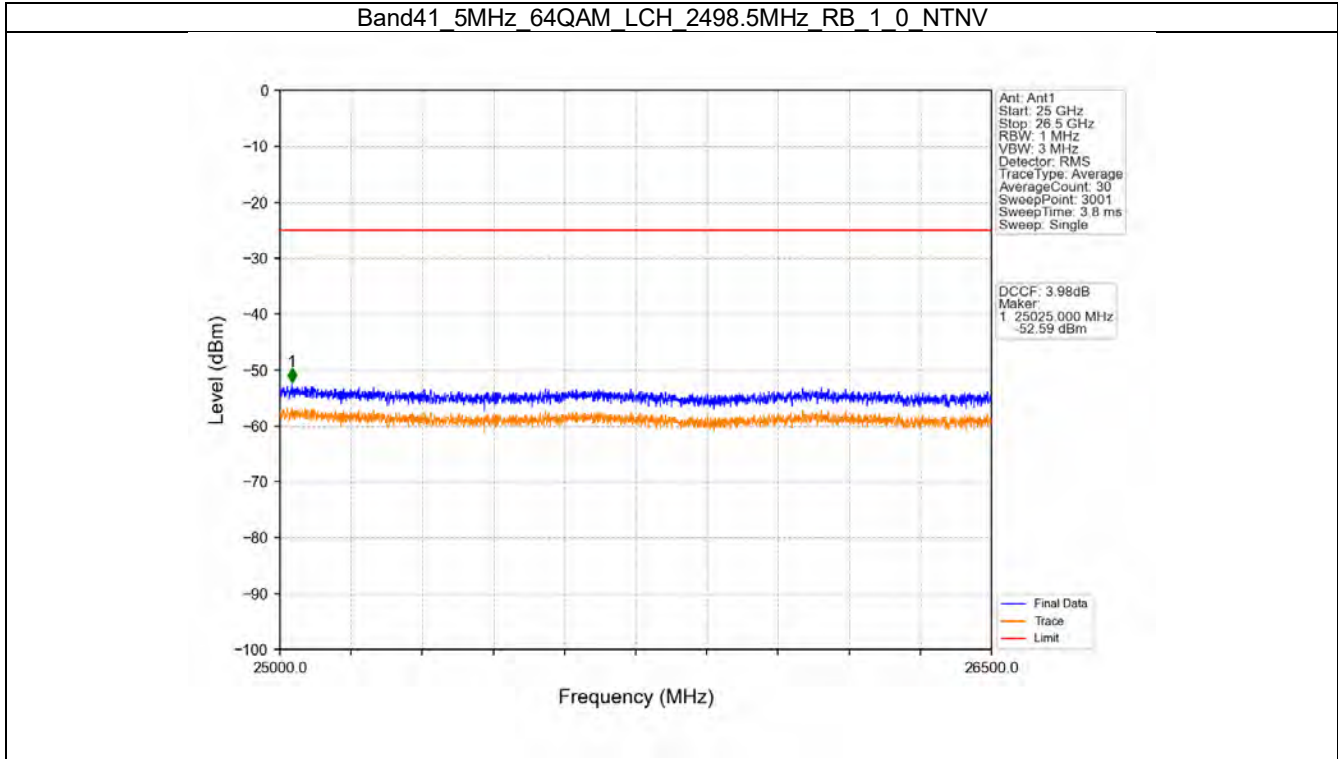
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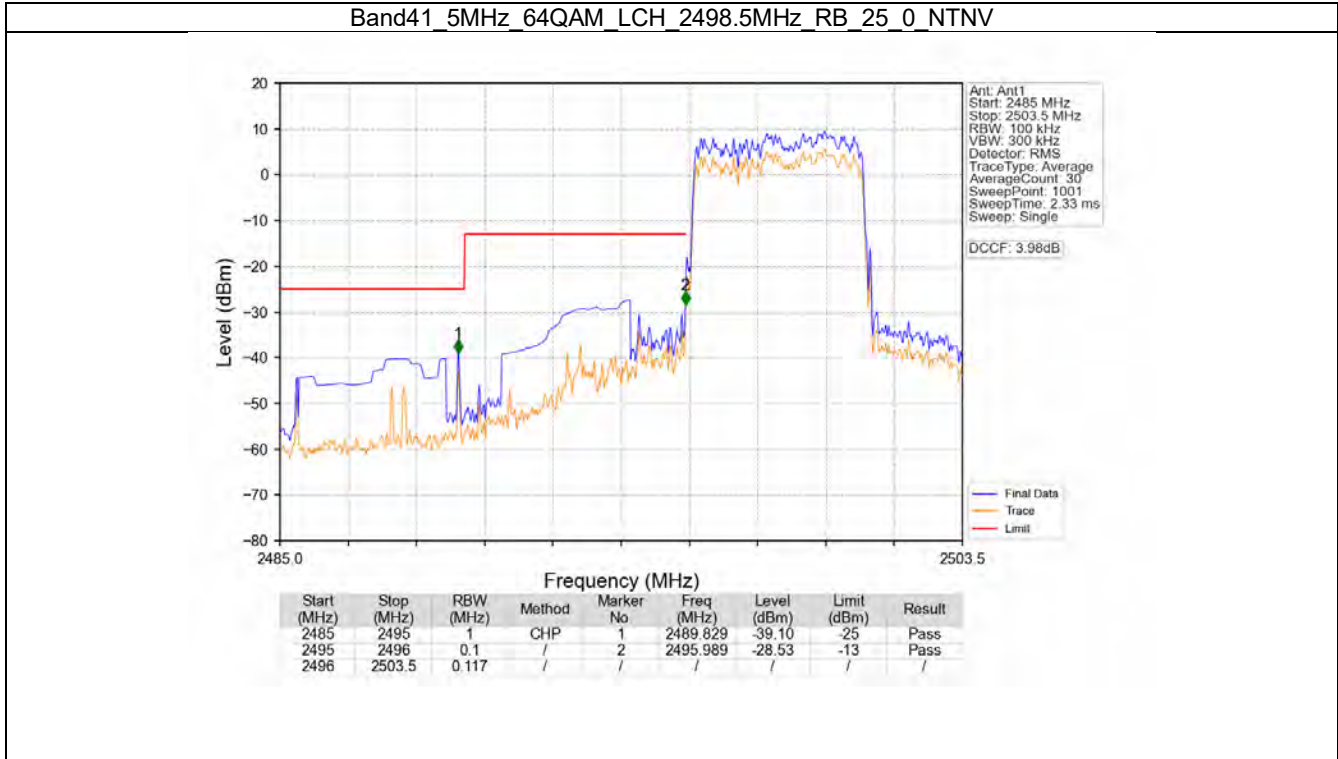
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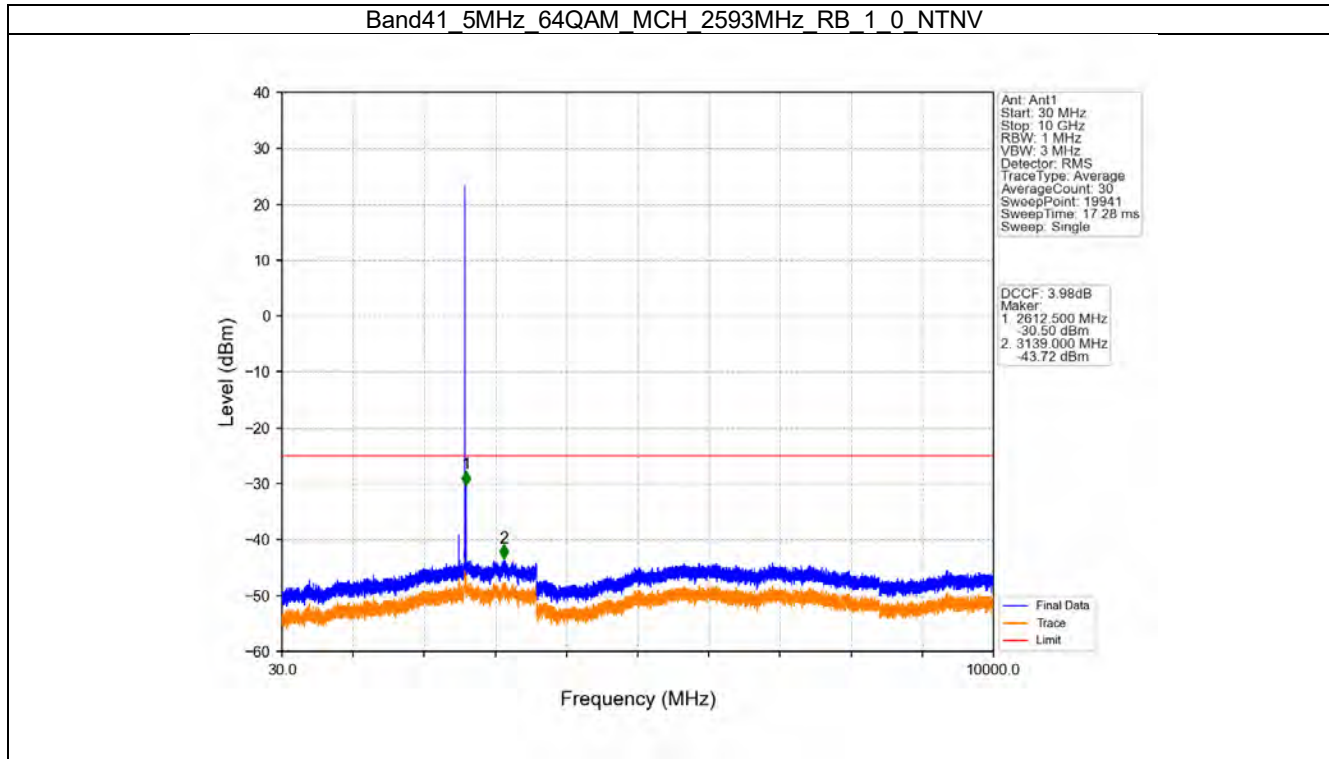


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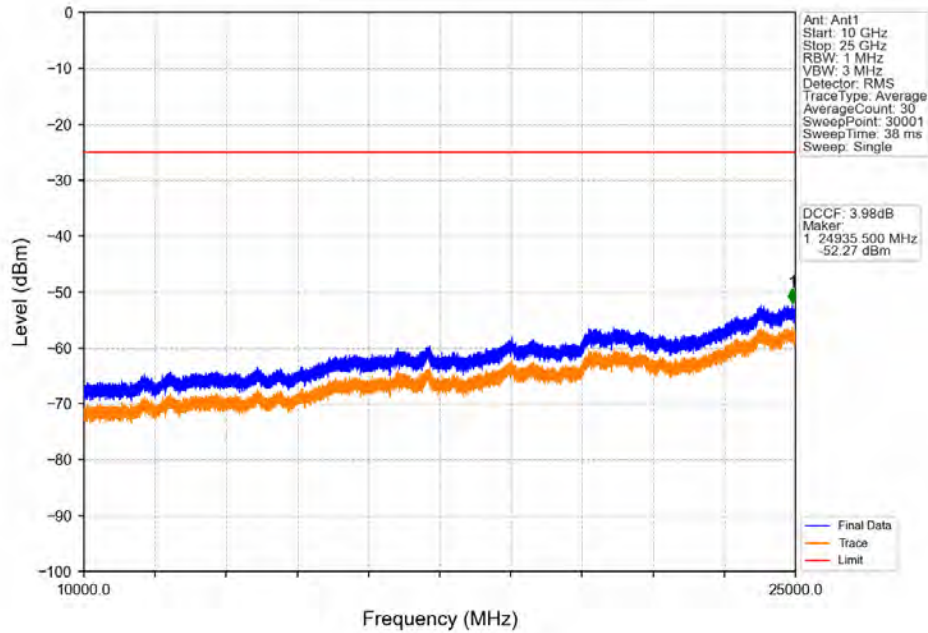
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Band41_5MHz_64QAM_MCH_2593MHz_RB_1_0_NTNV



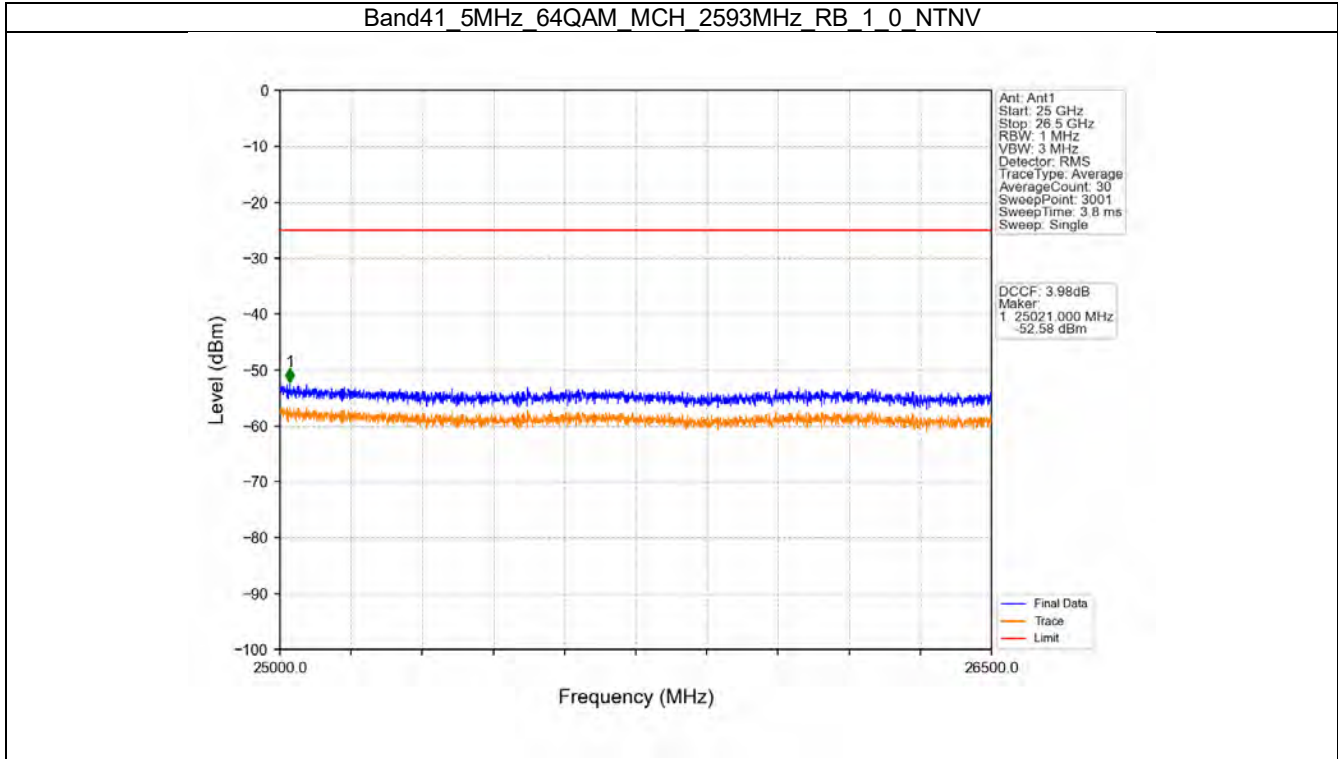
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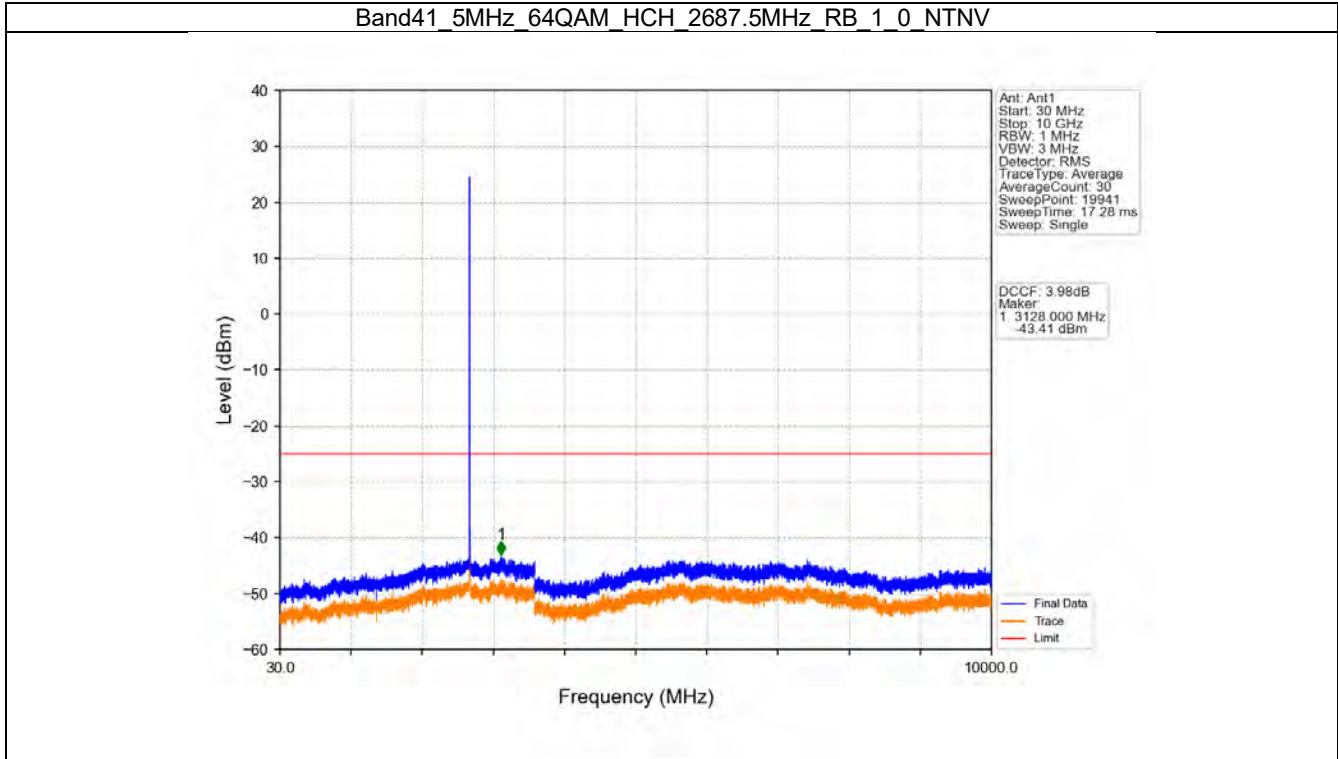
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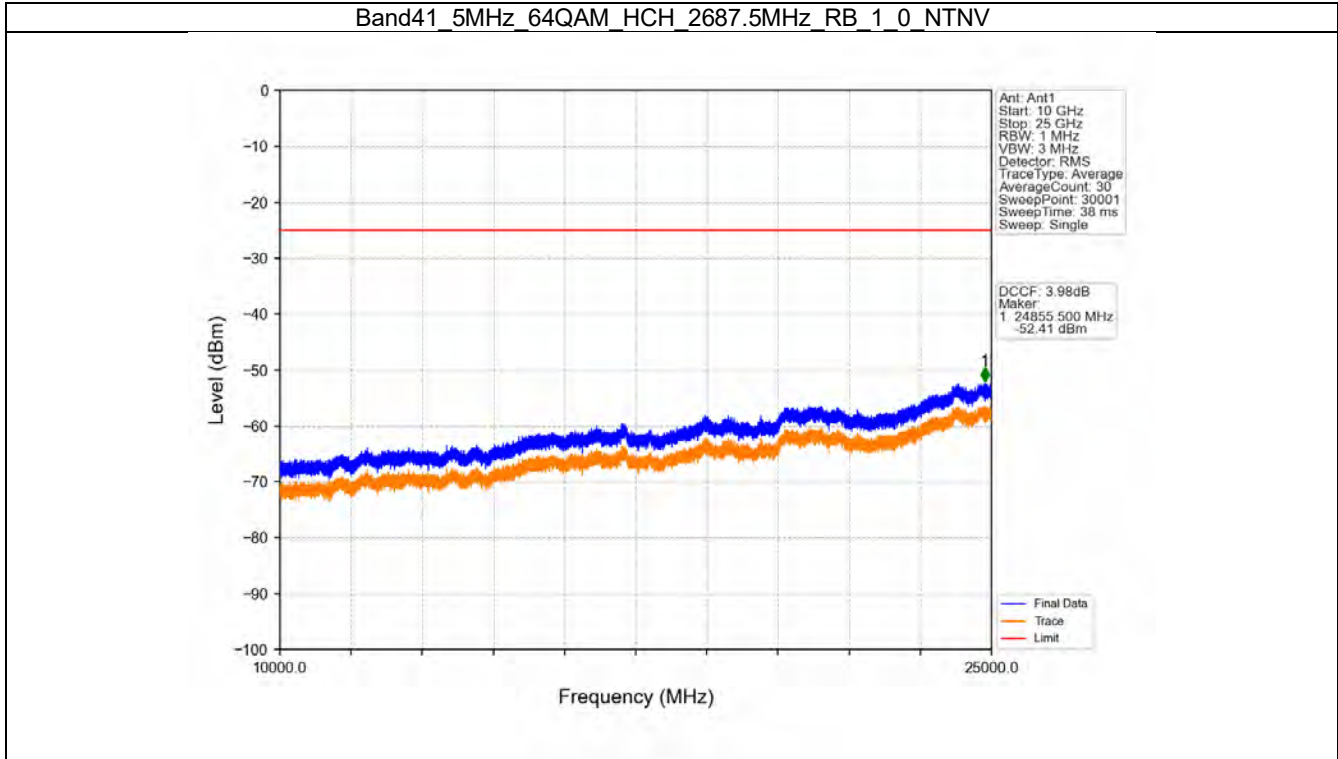
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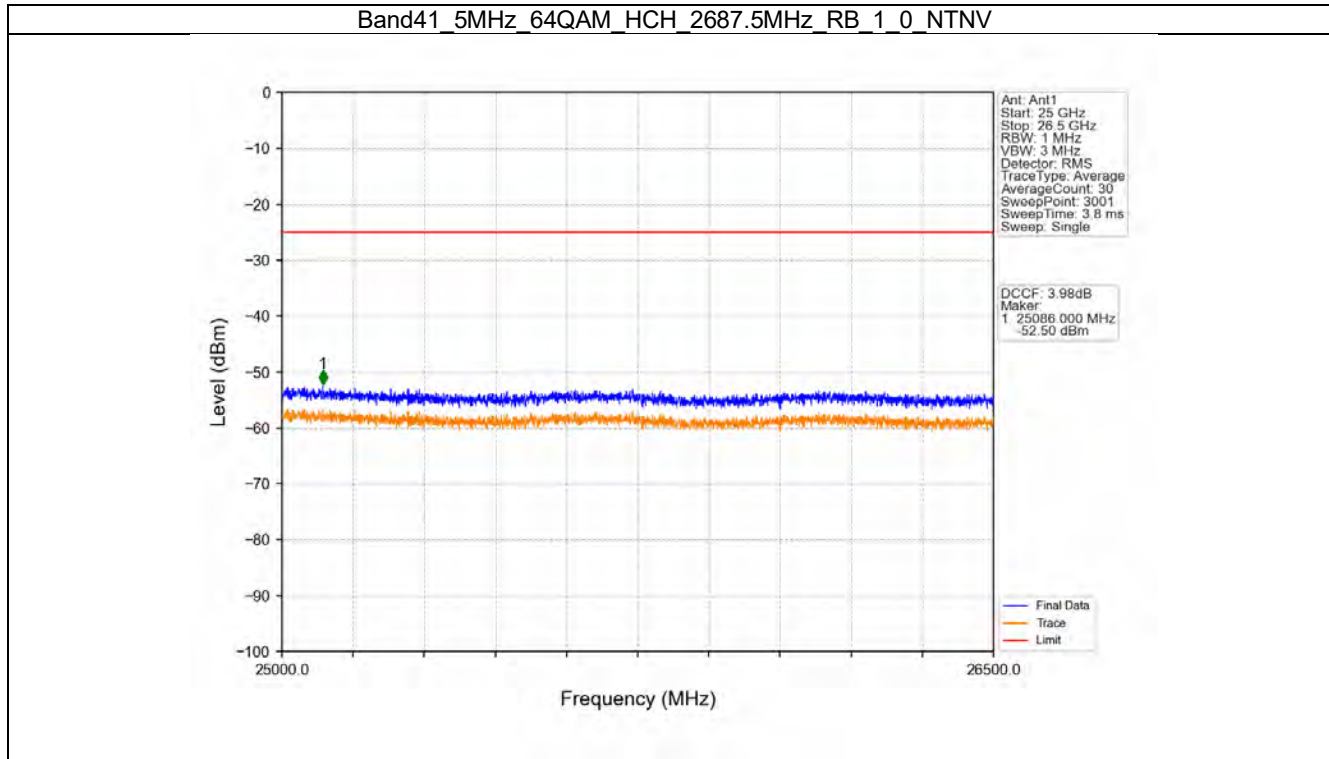


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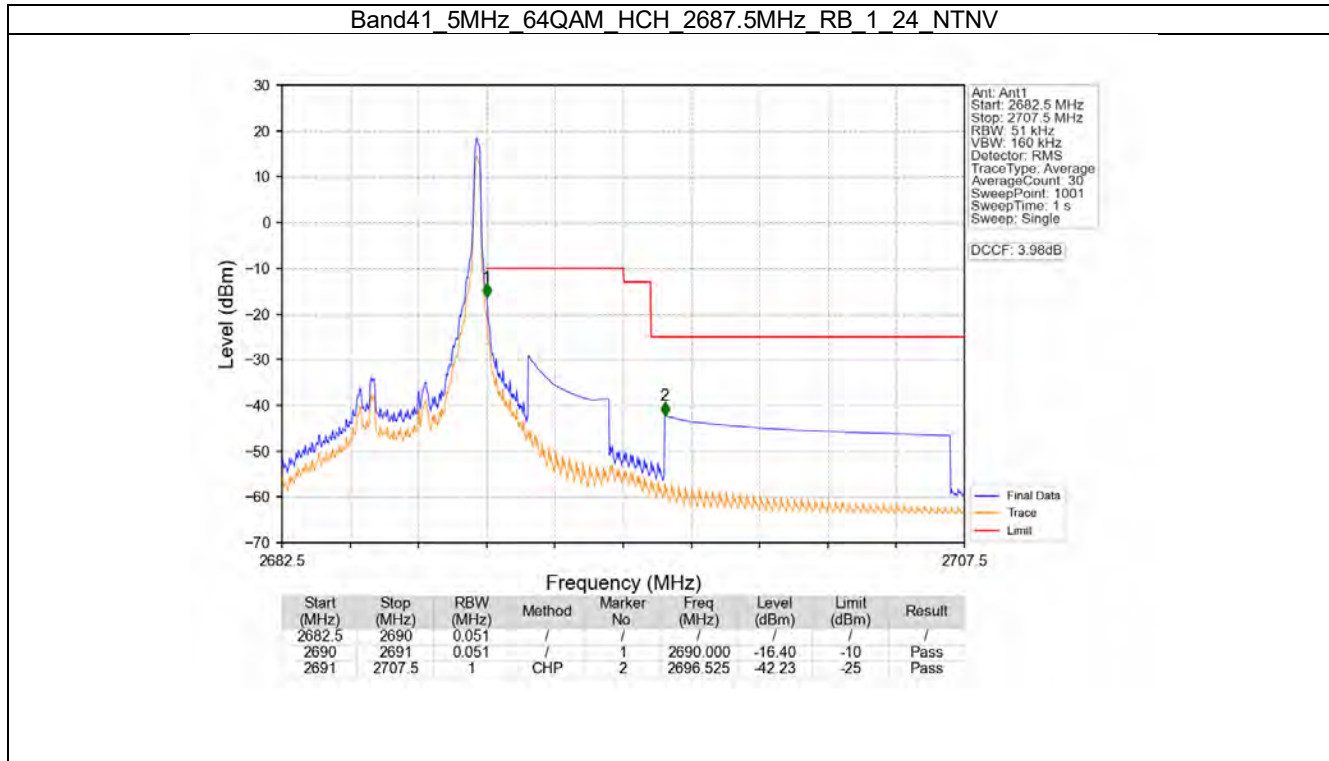
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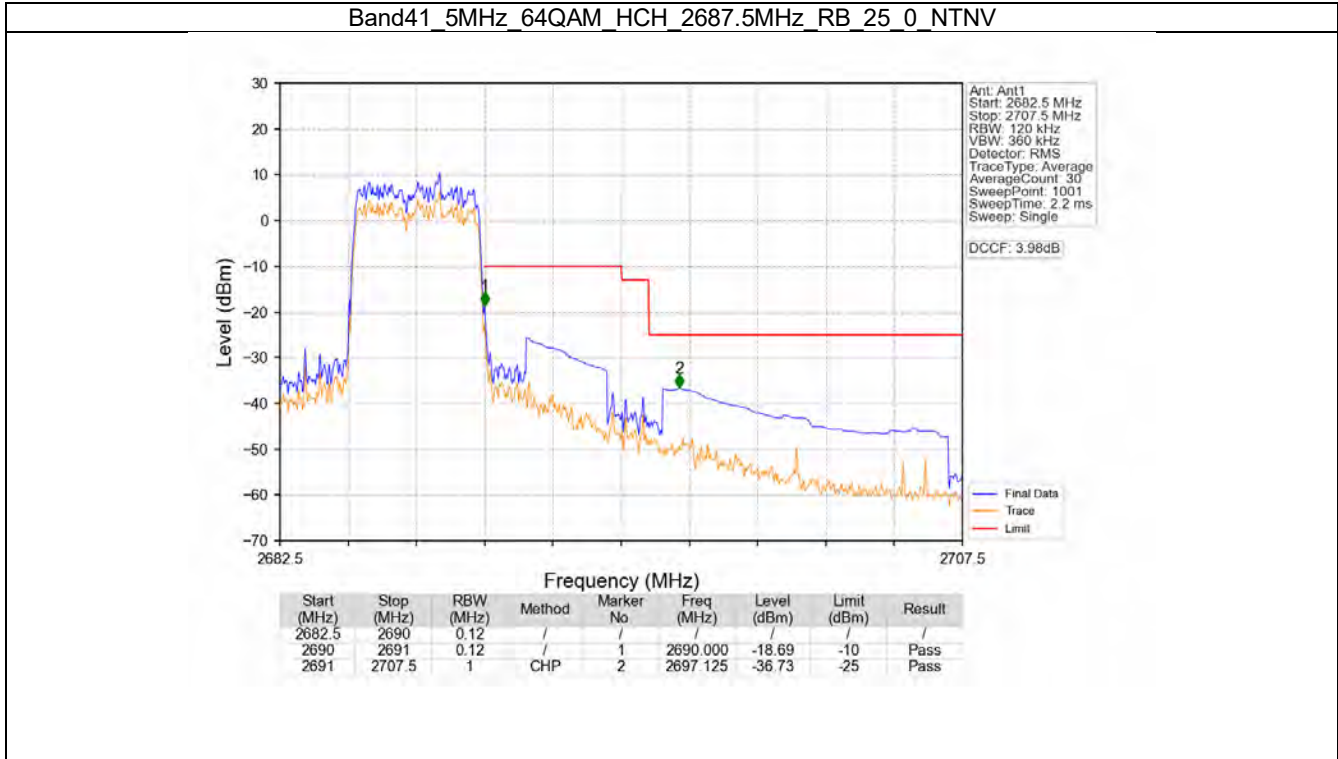
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5.2 B41_10MHz

5.2.1 Test Result

Band: 41 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2501	1	0	Refer To Test Graph	Pass	
		50	0	Refer To Test Graph	Pass	
	2685	1	0	Refer To Test Graph	Pass	
		50	0	Refer To Test Graph	Pass	
			49	Refer To Test Graph	Pass	
16QAM	2501	1	0	Refer To Test Graph	Pass	
		50	0	Refer To Test Graph	Pass	
	2685	1	0	Refer To Test Graph	Pass	
		50	0	Refer To Test Graph	Pass	
			49	Refer To Test Graph	Pass	
64QAM	2501	1	0	Refer To Test Graph	Pass	
		50	0	Refer To Test Graph	Pass	
	2685	1	0	Refer To Test Graph	Pass	
		50	0	Refer To Test Graph	Pass	
			49	Refer To Test Graph	Pass	



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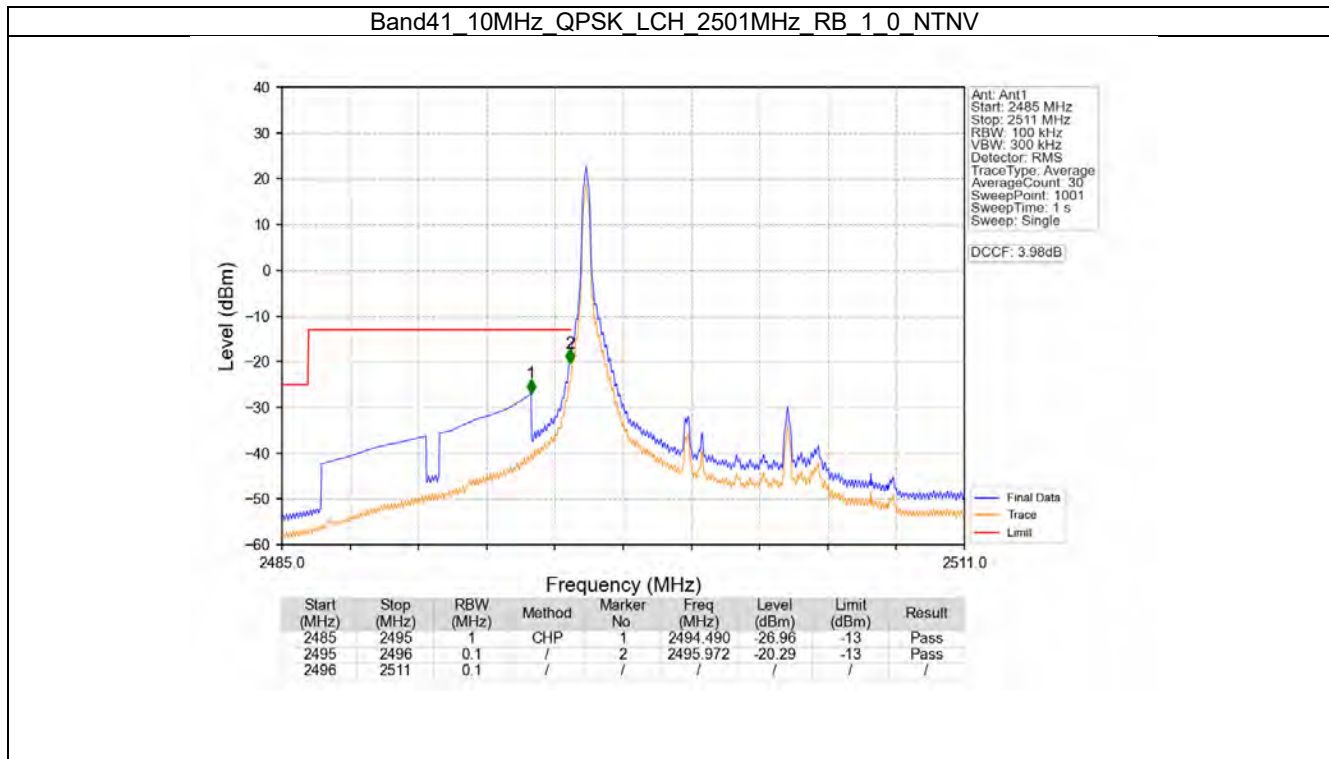
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5.2.2 Test Graph



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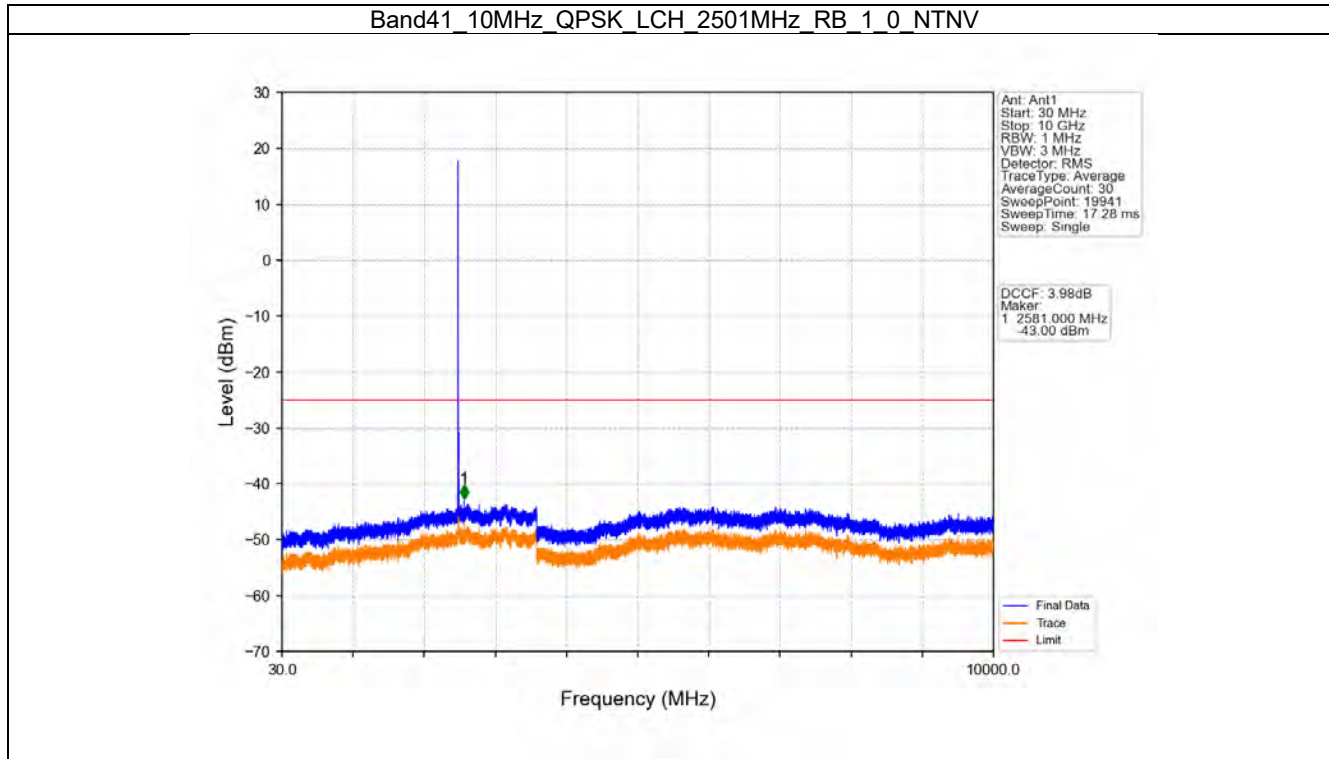


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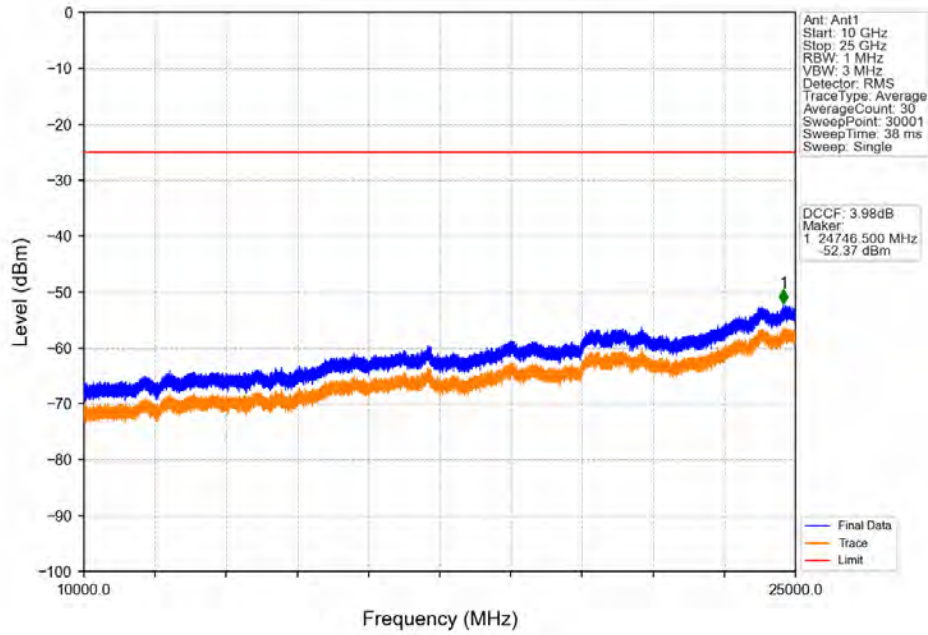
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Band41_10MHz_QPSK_LCH_2501MHz_RB_1_0_NTNV



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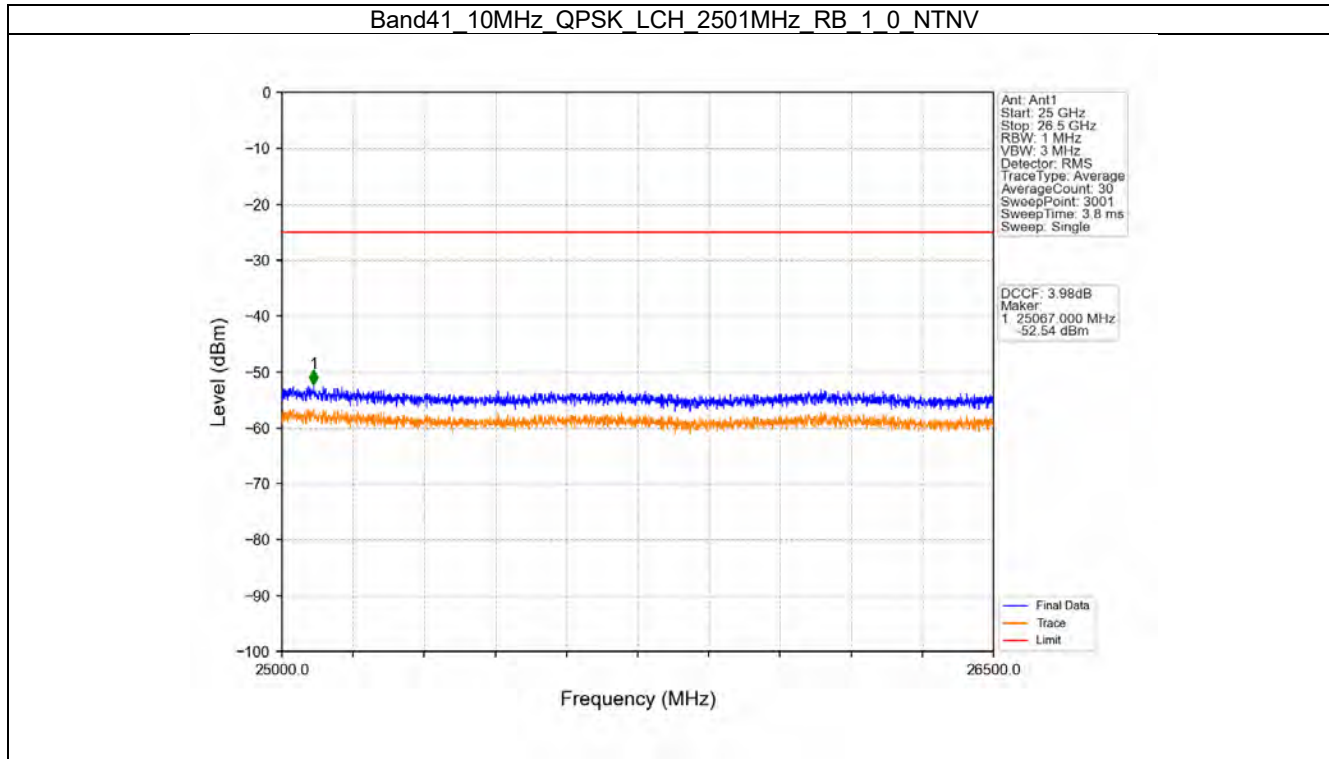


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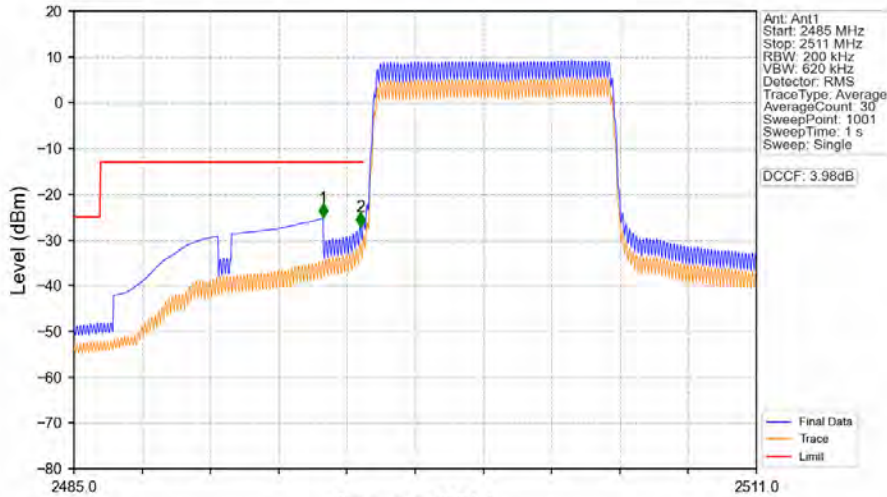
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Band41_10MHz_QPSK_LCH_2501MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2495	1	CHP	1	2484.490	-25.20	-13	Pass
2495	2496	0.2	/	2	2495.920	-27.16	-13	Pass
2496	2511	0.21	/	/	/	/	/	/



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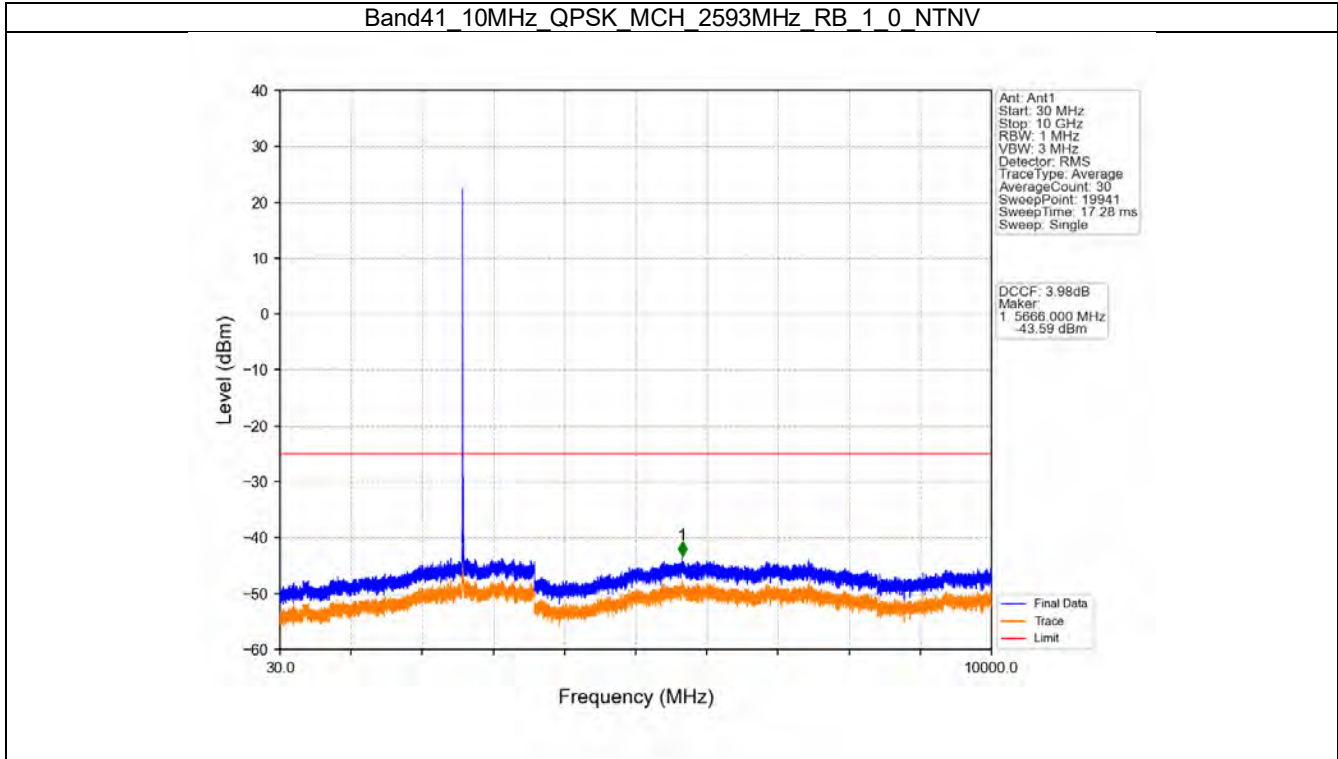
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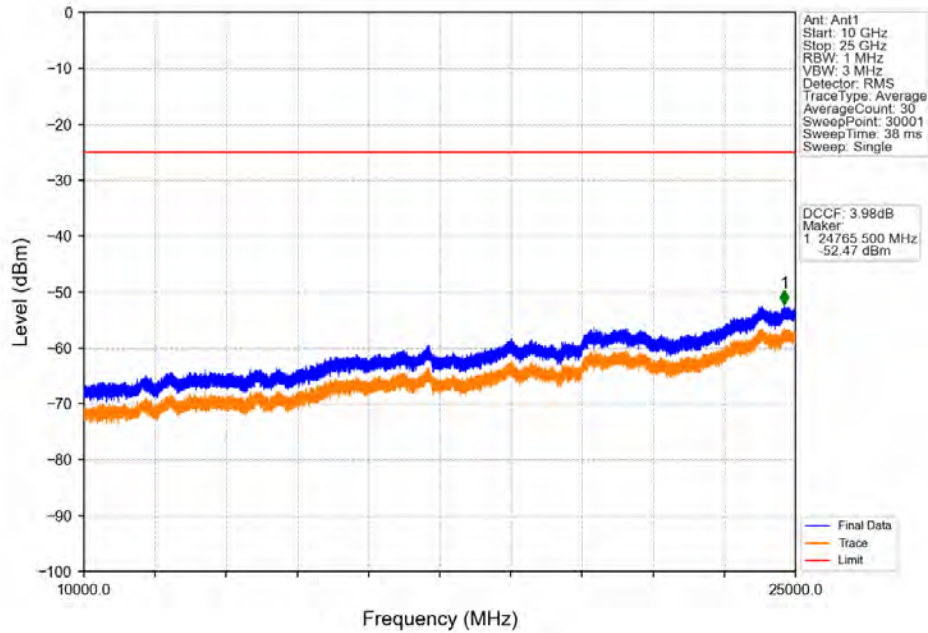
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Band41_10MHz_QPSK_MCH_2593MHz_RB_1_0_NTNV



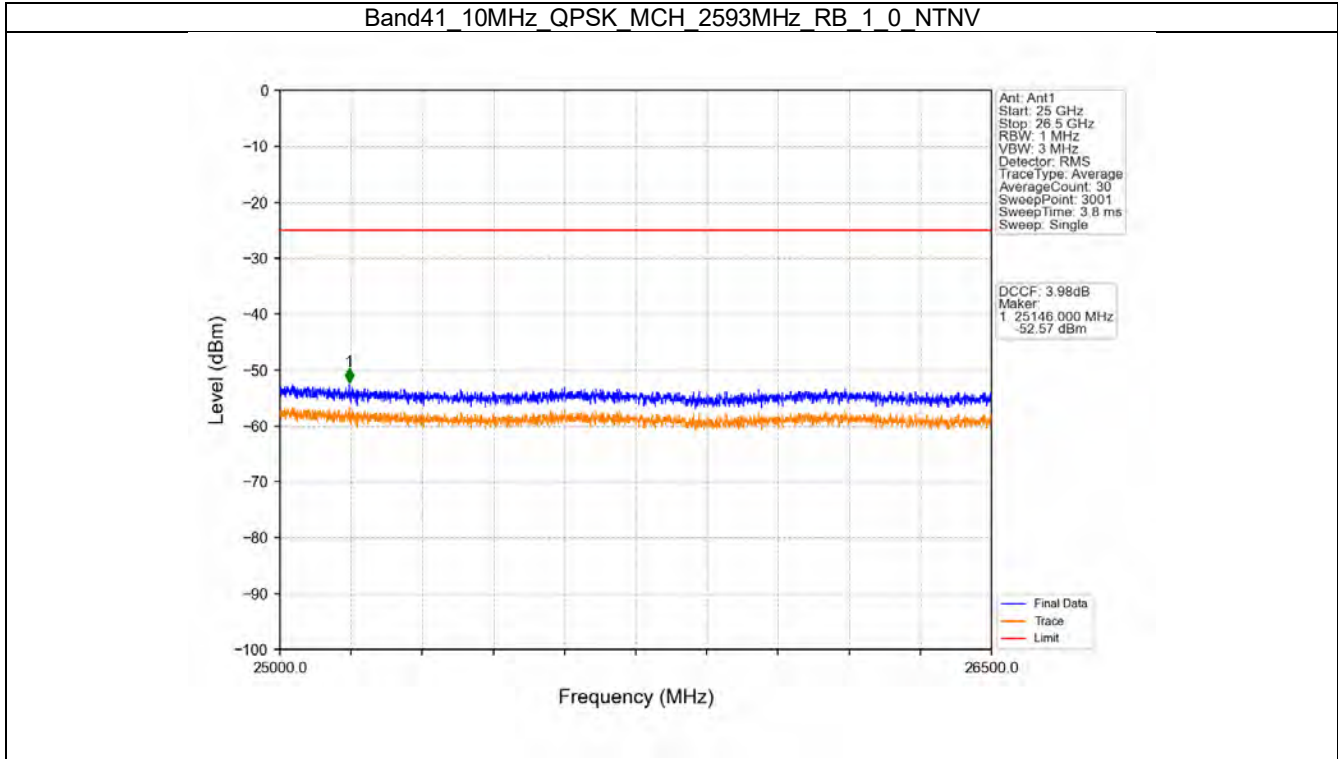
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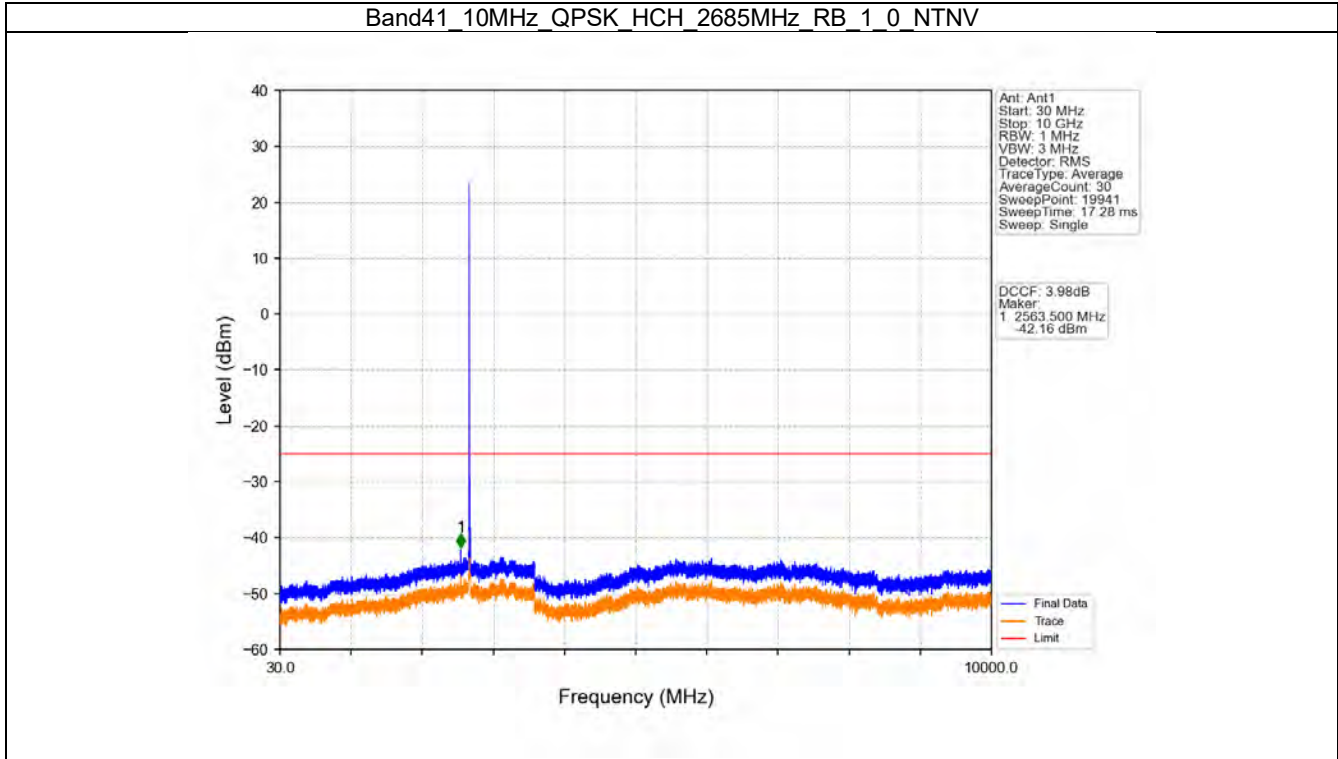
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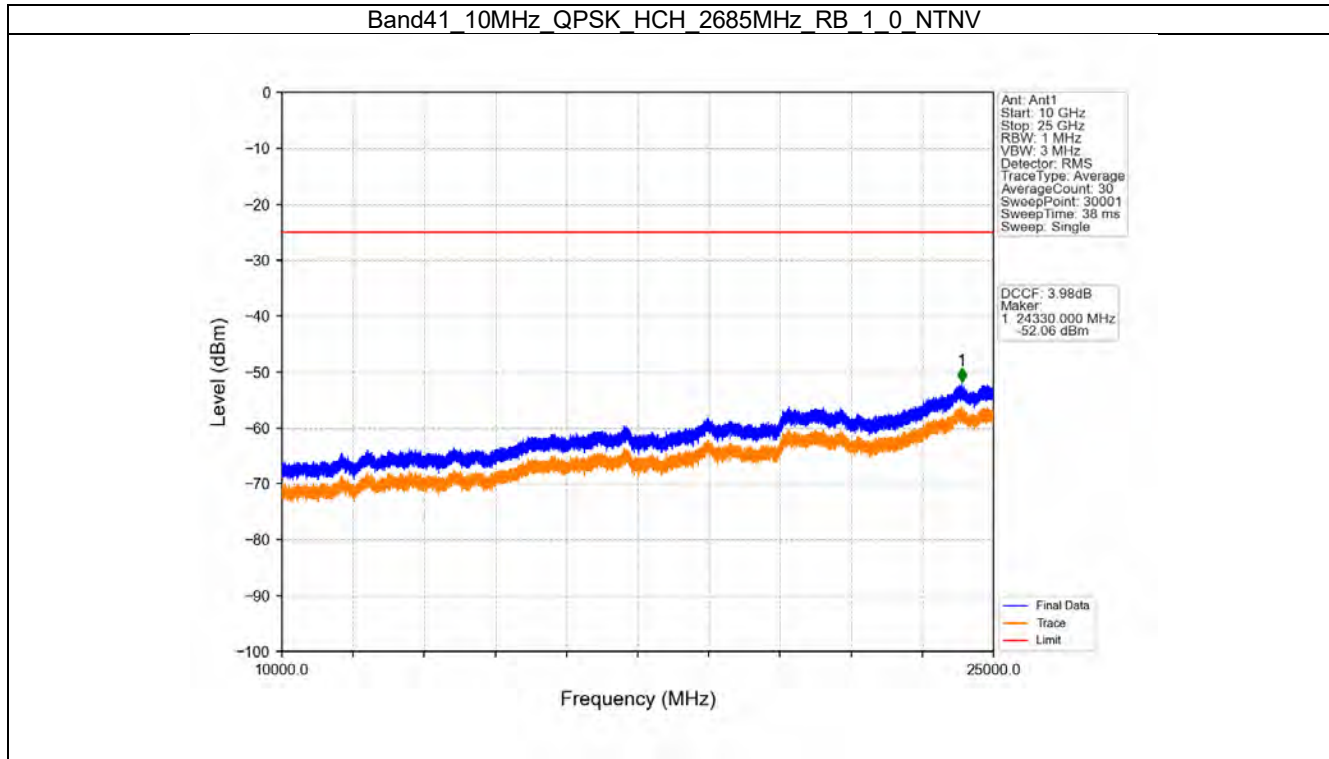
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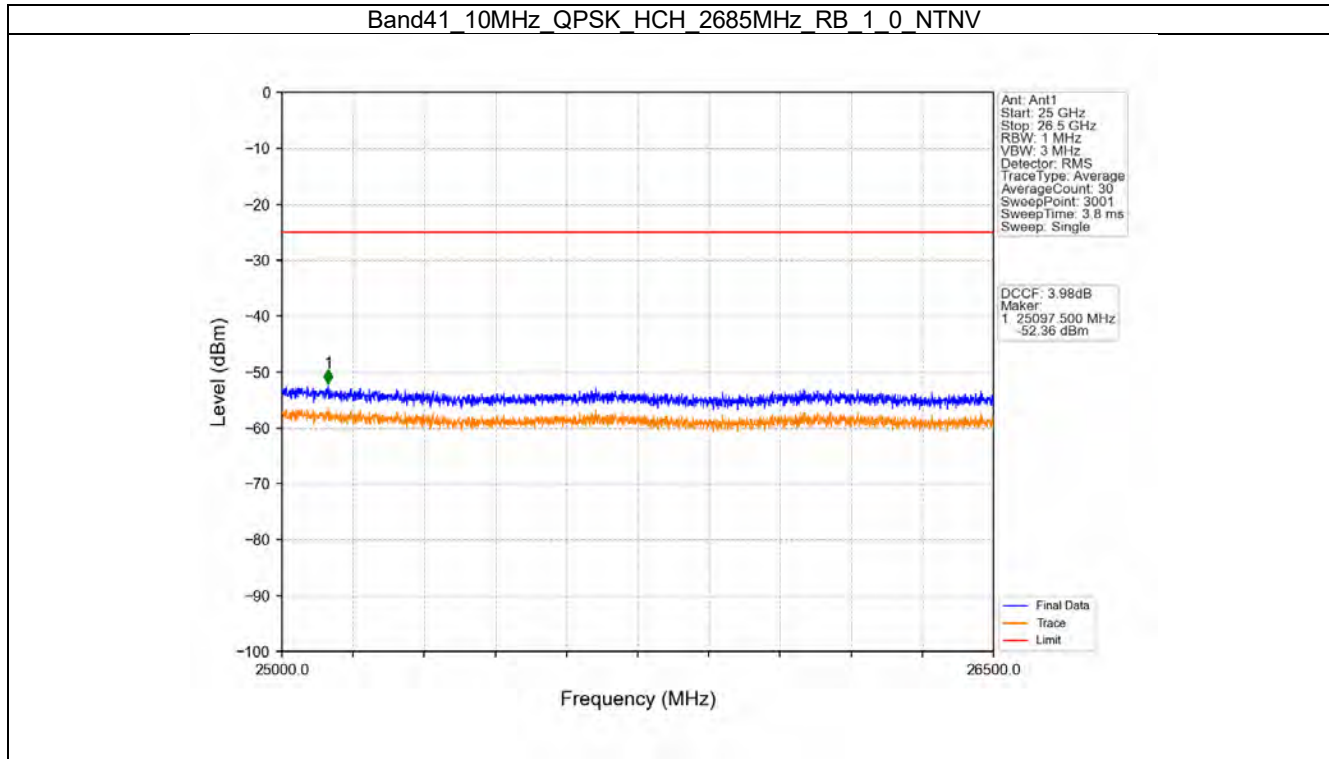


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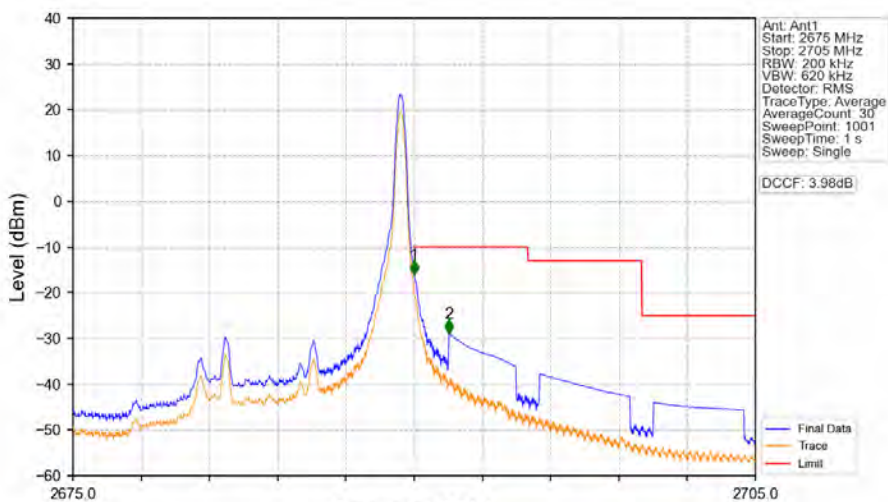
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Band41_10MHz_QPSK_HCH_2685MHz_RB_1_49_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2675	2690	0.2	/	1	2690.000	-16.11	-10	Pass
2690	2691	0.2	/	1	2691.530	-28.91	-10	Pass
2691	2705	1	CHP	2				



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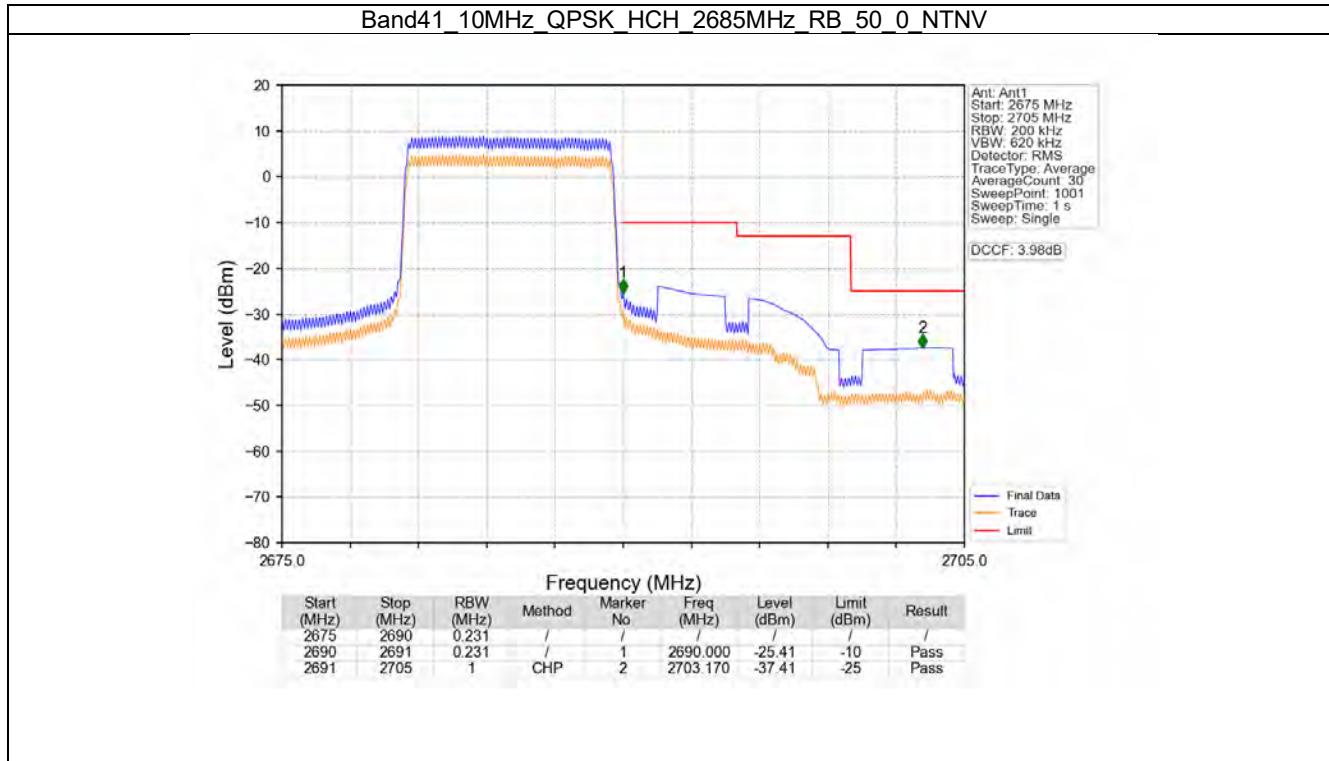
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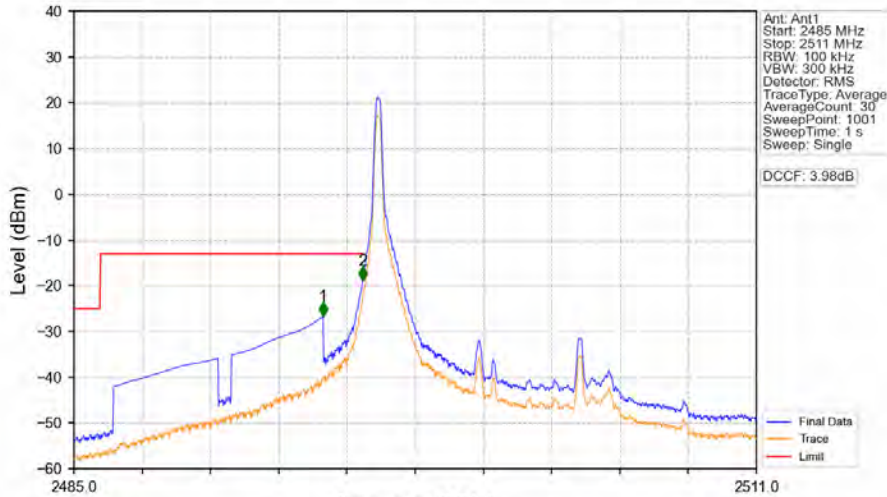
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Band41_10MHz_16QAM_LCH_2501MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2495	1	CHP	1	2484.490	-26.67	-13	Pass
2495	2496	0.1	/	2	2495.998	-18.86	-13	Pass
2496	2511	0.1	/	/	/	/	/	/



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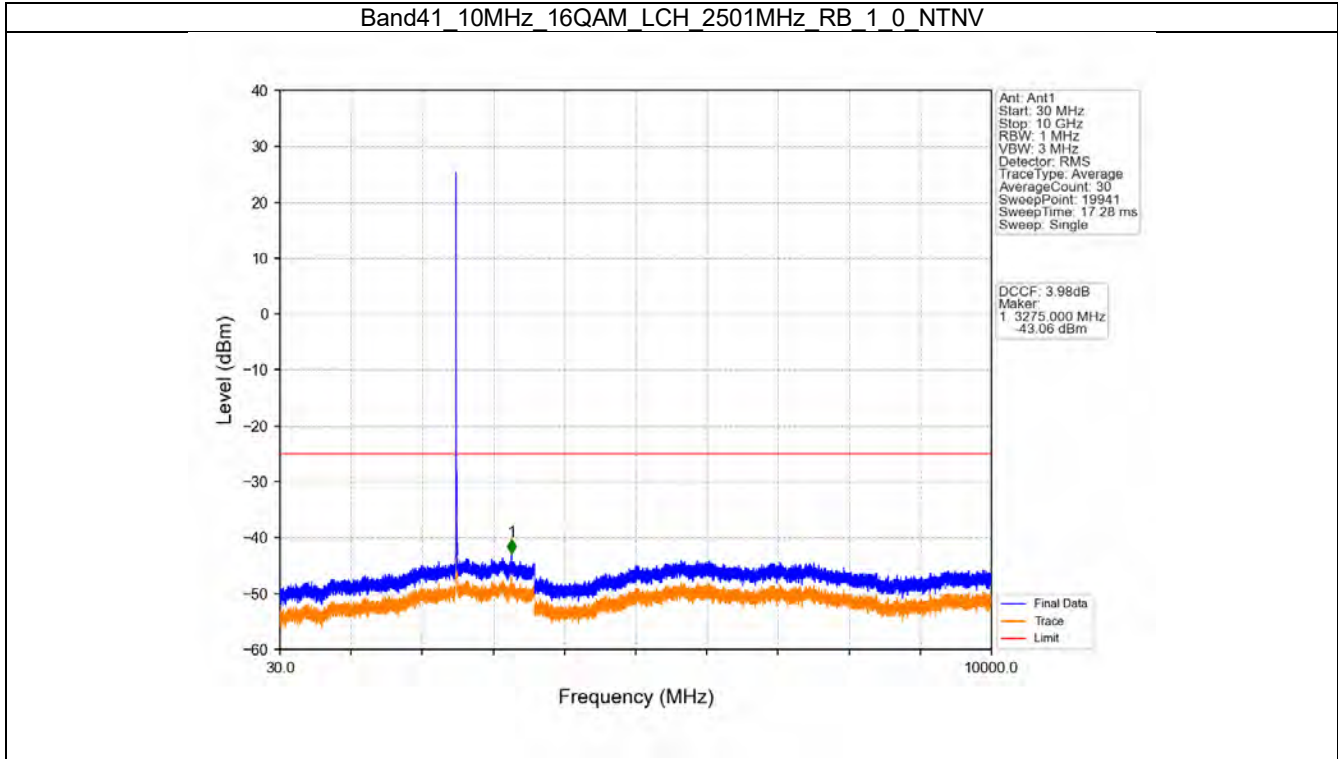
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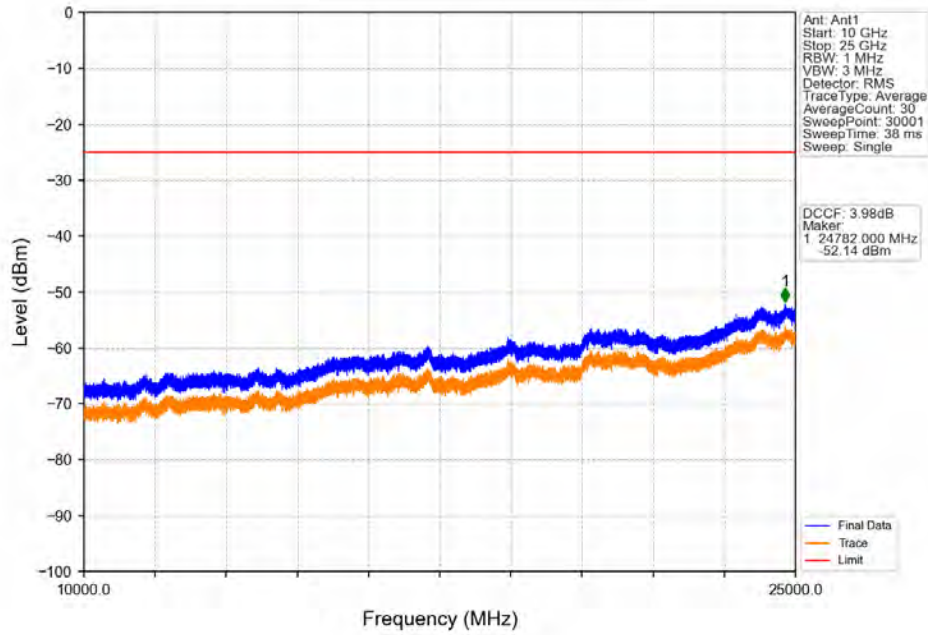
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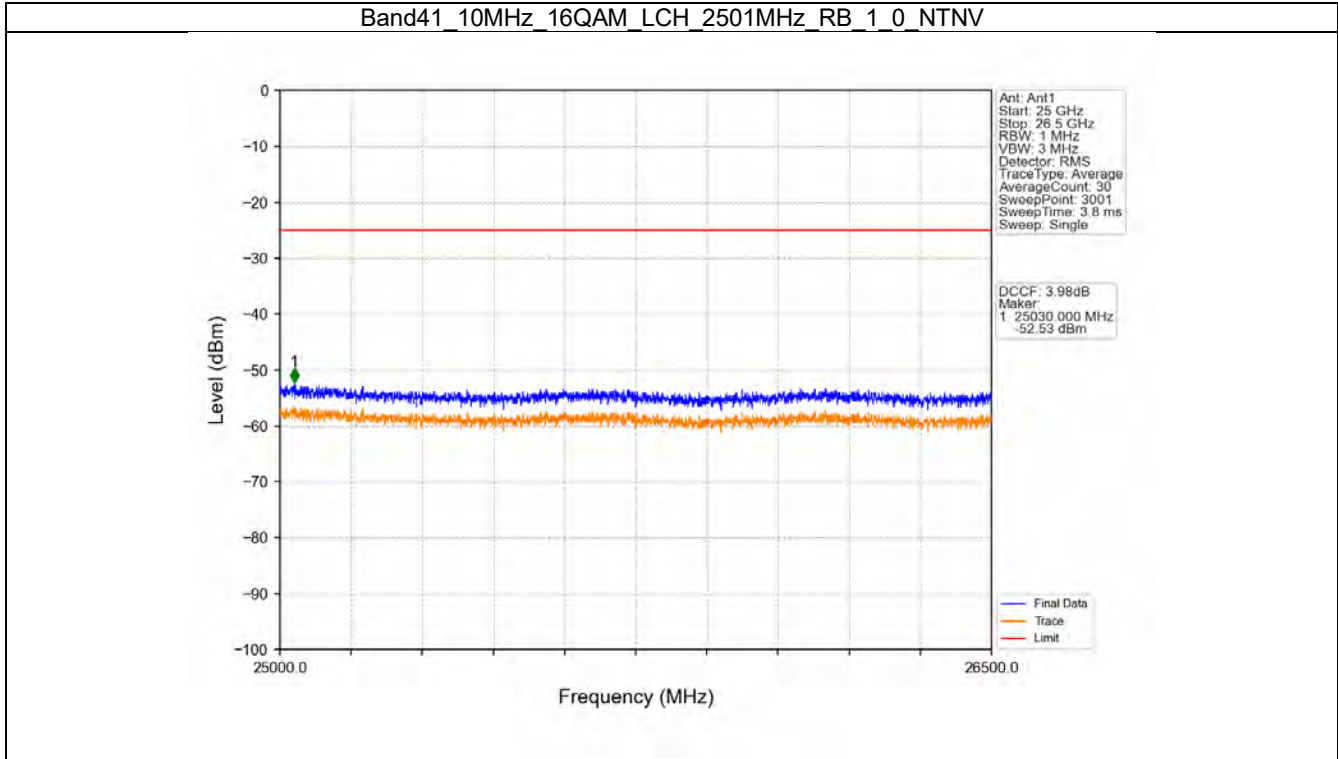
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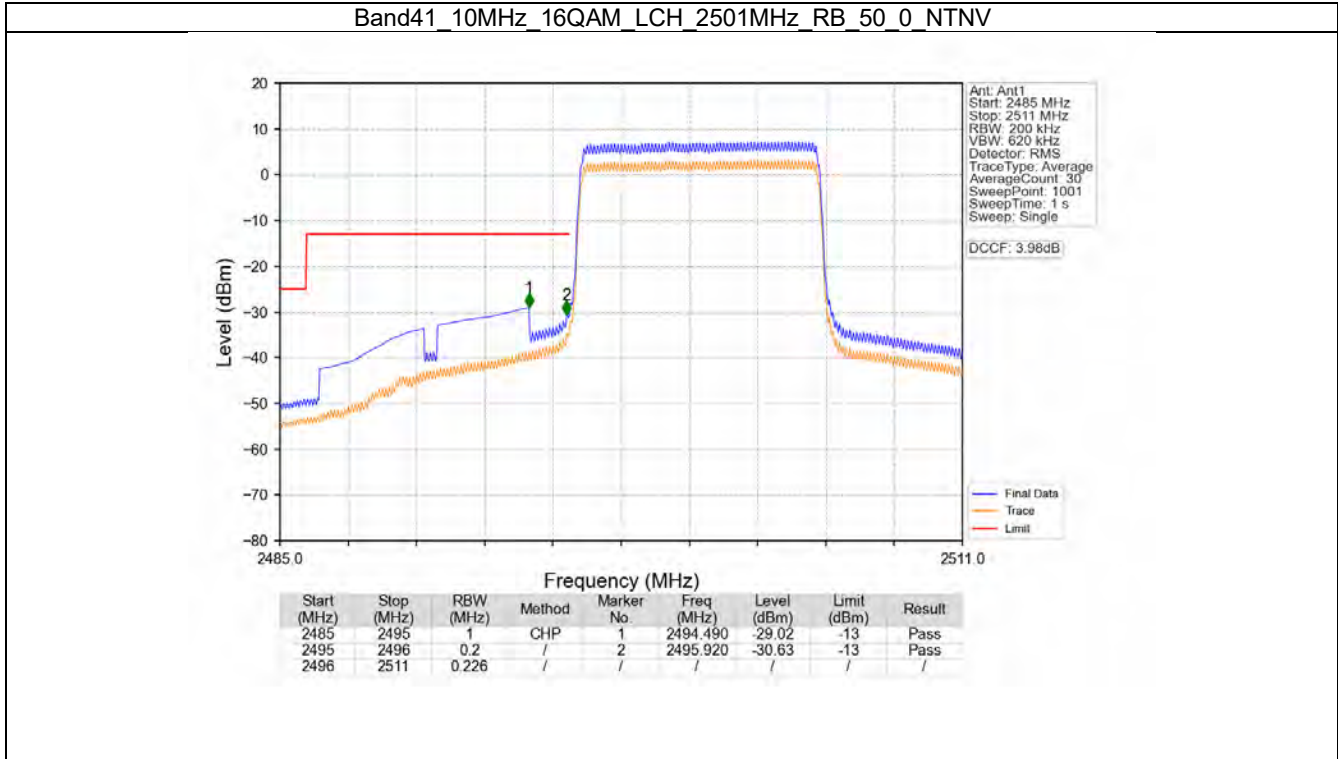
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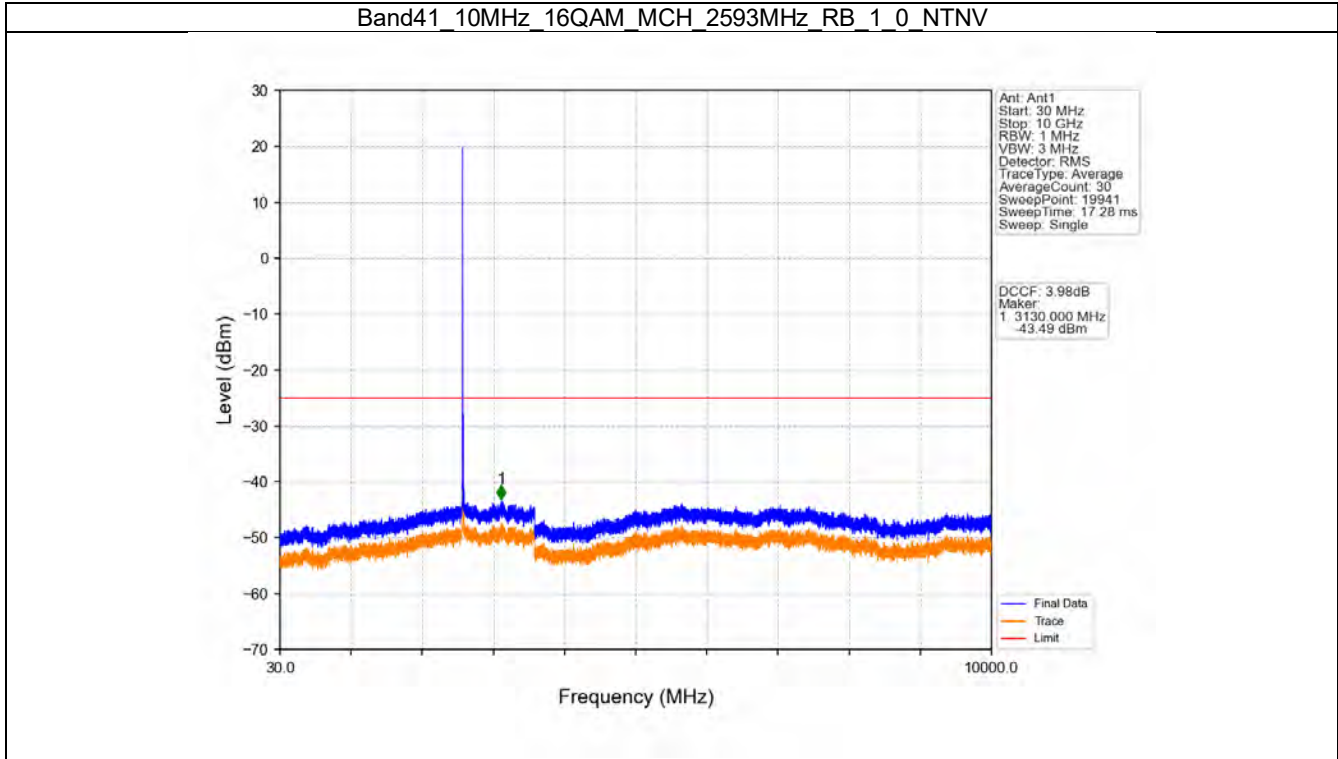
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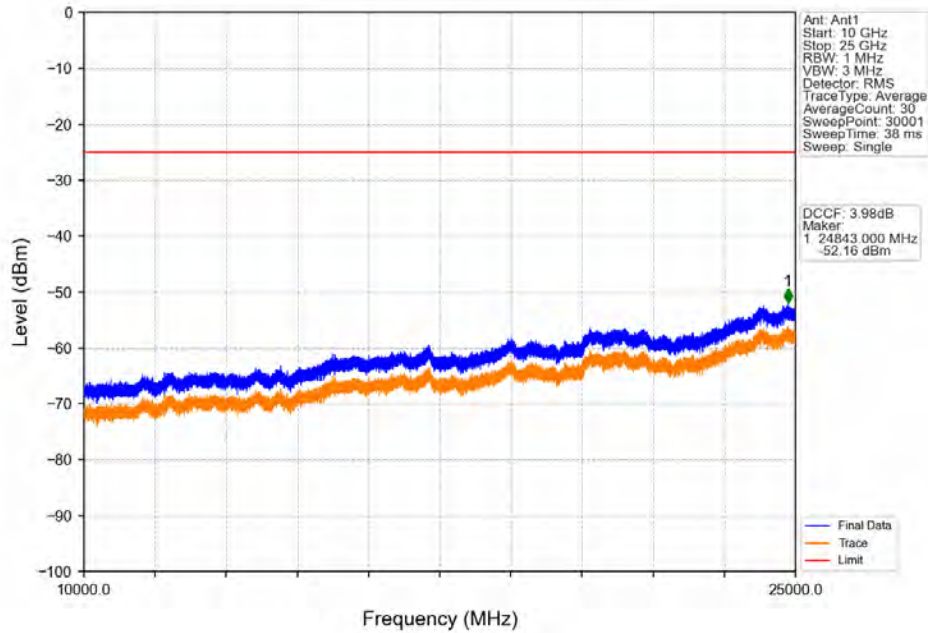
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Band41_10MHz_16QAM_MCH_2593MHz_RB_1_0_NTNV



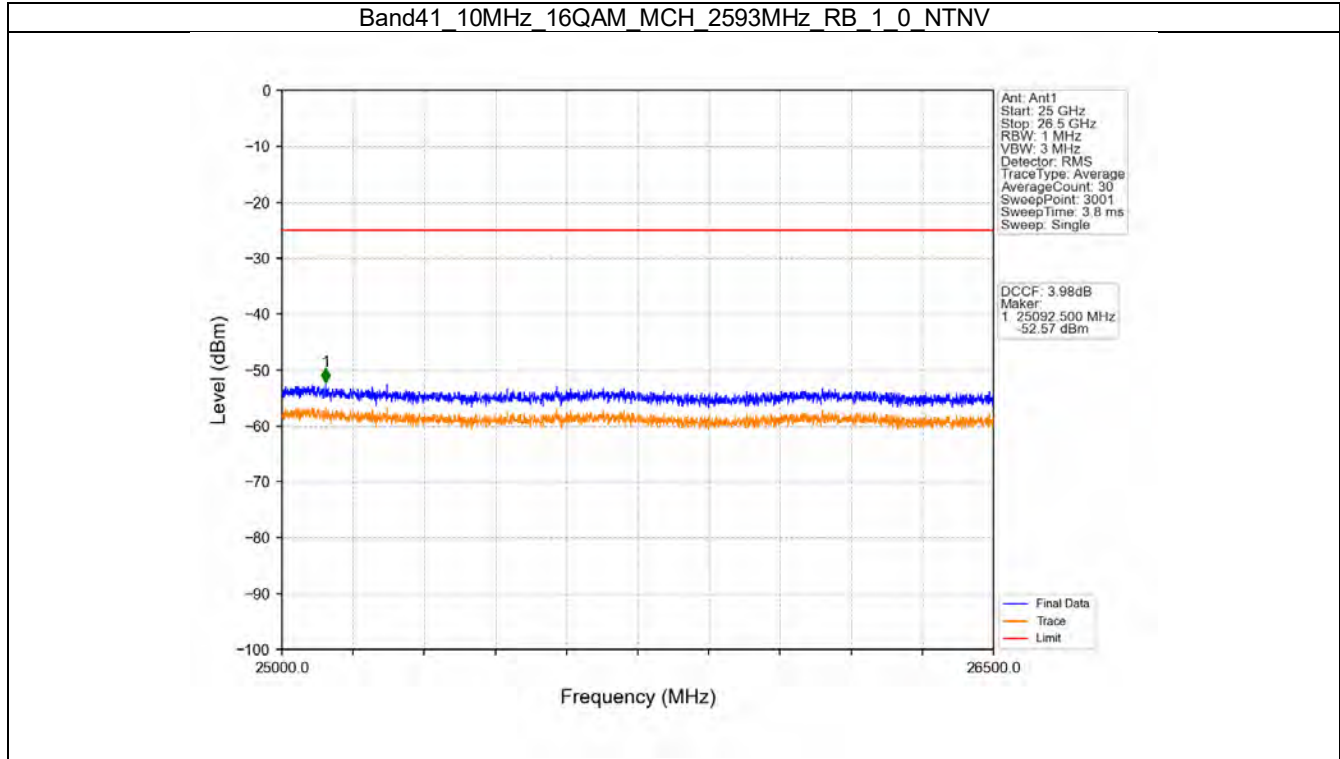
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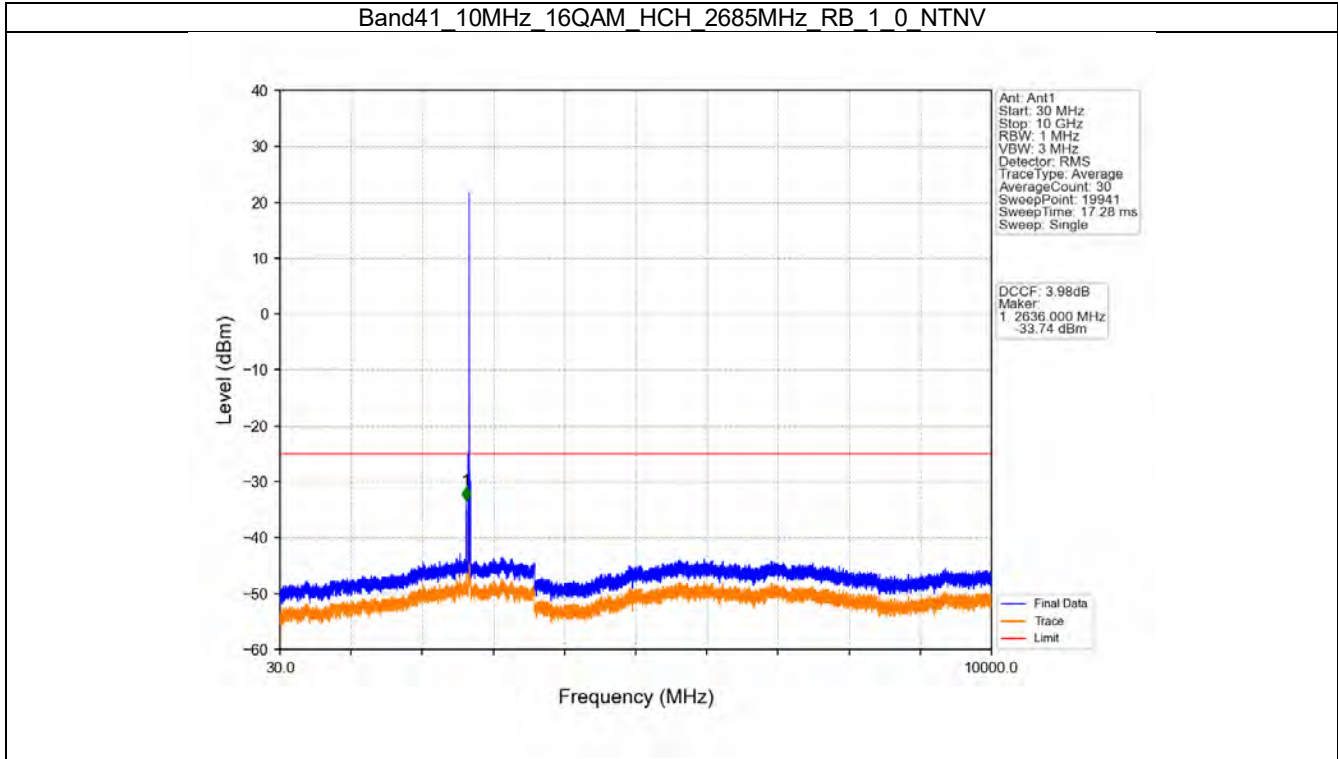
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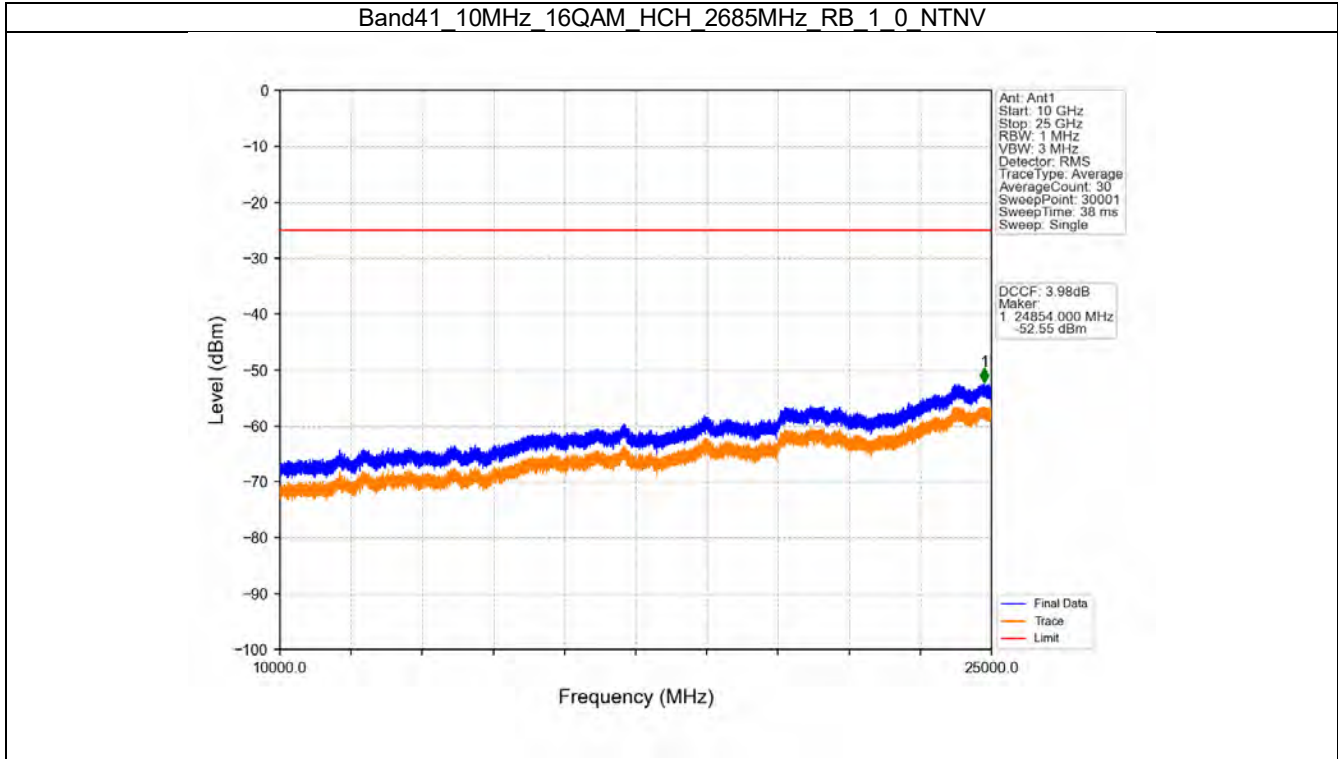
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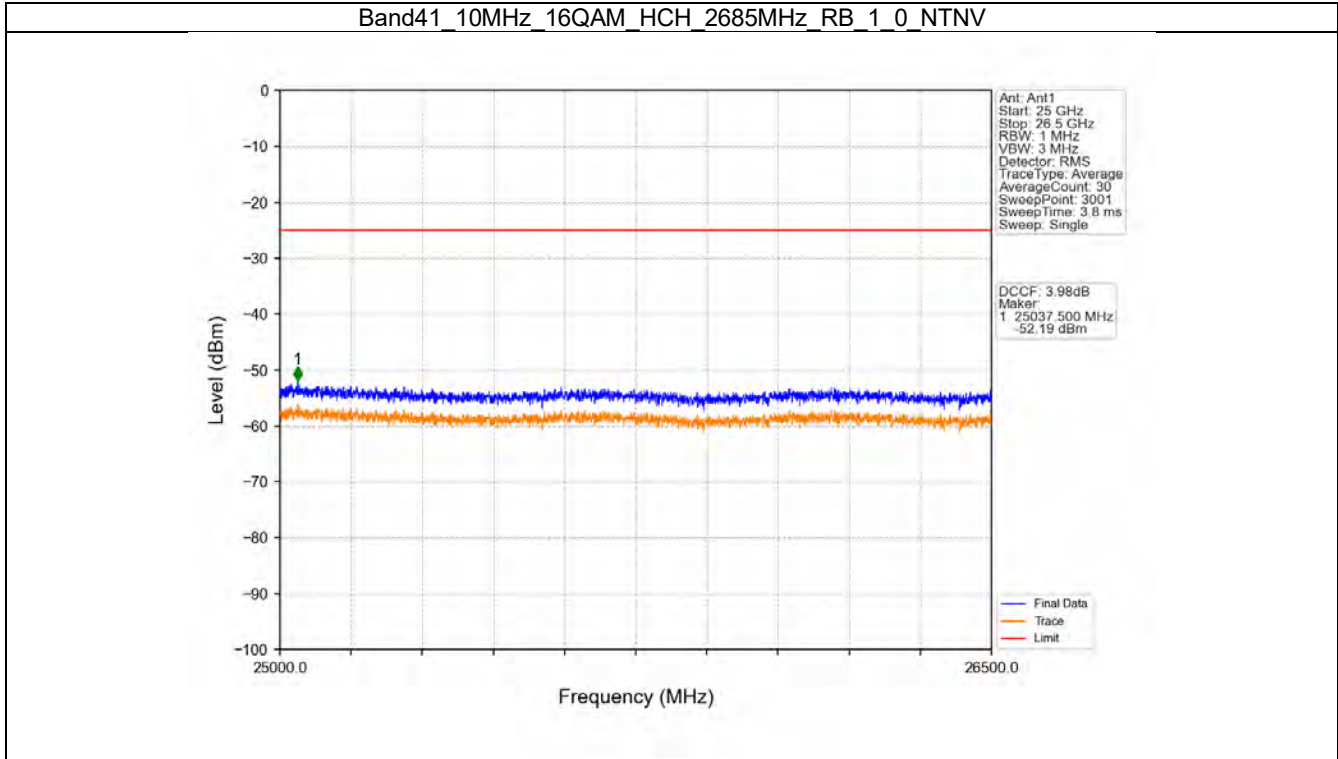
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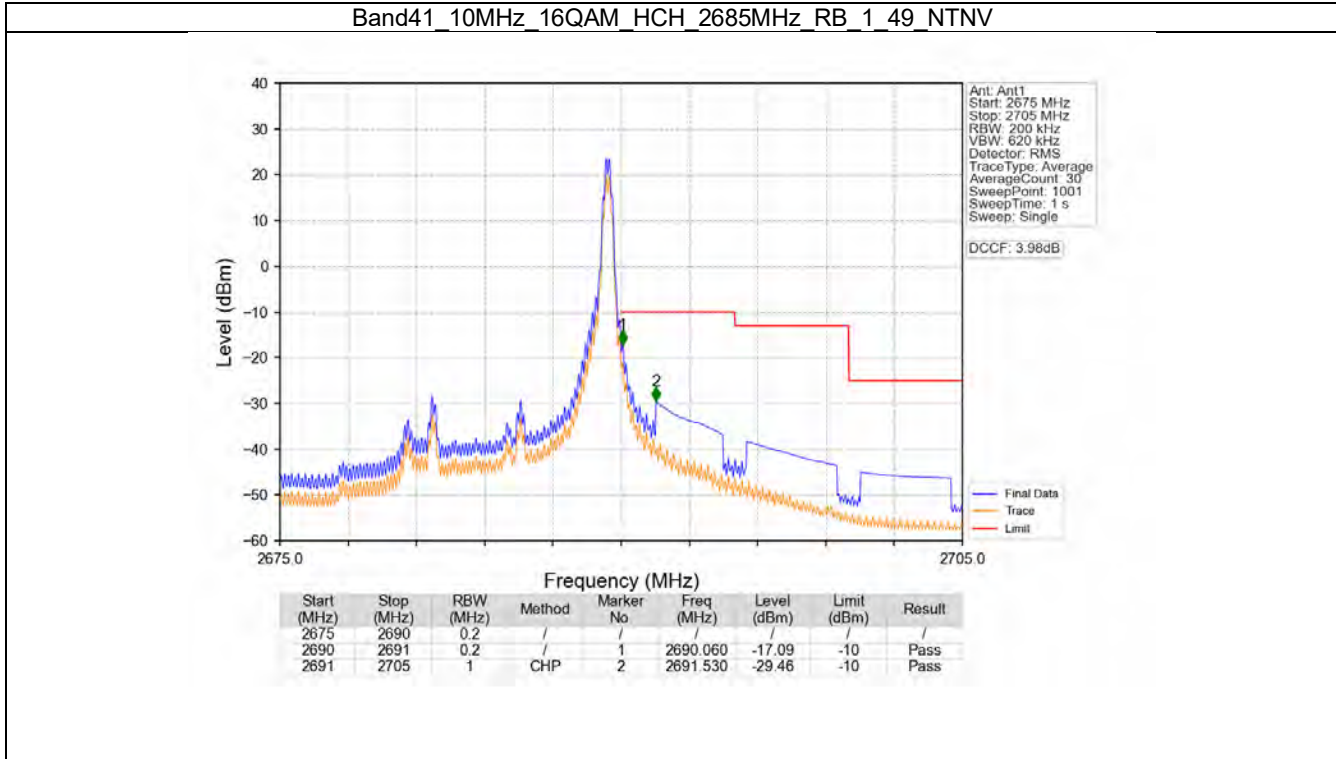
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