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Appendix B.17

LTE Band 41



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1. Effective (Isotropic) Radiated Power Output Data

1.1.1 Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band41	5MHz	QPSK	39675	1RB#0	25.95	29.11	33	PASS
Band41	5MHz	16QAM	39675	1RB#0	25.13	28.29	33	PASS
Band41	5MHz	64QAM	39675	1RB#0	24.4	27.56	33	PASS
Band41	5MHz	256QAM	39675	1RB#0	21.18	24.34	33	PASS
Band41	5MHz	QPSK	39675	1RB#12	25.91	29.07	33	PASS
Band41	5MHz	16QAM	39675	1RB#12	25.04	28.2	33	PASS
Band41	5MHz	64QAM	39675	1RB#12	24.32	27.48	33	PASS
Band41	5MHz	256QAM	39675	1RB#12	21.21	24.37	33	PASS
Band41	5MHz	QPSK	39675	1RB#24	25.83	28.99	33	PASS
Band41	5MHz	16QAM	39675	1RB#24	24.98	28.14	33	PASS
Band41	5MHz	64QAM	39675	1RB#24	24.38	27.54	33	PASS
Band41	5MHz	256QAM	39675	1RB#24	21.11	24.27	33	PASS
Band41	5MHz	QPSK	39675	25RB#0	25.03	28.19	33	PASS
Band41	5MHz	16QAM	39675	25RB#0	24.06	27.22	33	PASS
Band41	5MHz	64QAM	39675	25RB#0	23.06	26.22	33	PASS
Band41	5MHz	256QAM	39675	25RB#0	21.04	24.2	33	PASS
Band41	5MHz	QPSK	40620	1RB#0	26.03	29.19	33	PASS
Band41	5MHz	16QAM	40620	1RB#0	25.18	28.34	33	PASS
Band41	5MHz	64QAM	40620	1RB#0	24.38	27.54	33	PASS
Band41	5MHz	256QAM	40620	1RB#0	21.28	24.44	33	PASS
Band41	5MHz	QPSK	40620	1RB#12	26.11	29.27	33	PASS
Band41	5MHz	16QAM	40620	1RB#12	25.27	28.43	33	PASS
Band41	5MHz	64QAM	40620	1RB#12	24.66	27.82	33	PASS
Band41	5MHz	256QAM	40620	1RB#12	21.41	24.57	33	PASS
Band41	5MHz	QPSK	40620	1RB#24	26.06	29.22	33	PASS
Band41	5MHz	16QAM	40620	1RB#24	25.26	28.42	33	PASS
Band41	5MHz	64QAM	40620	1RB#24	24.47	27.63	33	PASS
Band41	5MHz	256QAM	40620	1RB#24	21.07	24.23	33	PASS
Band41	5MHz	QPSK	40620	25RB#0	25.13	28.29	33	PASS



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Band41	5MHz	16QAM	40620	25RB#0	24.15	27.31	33	PASS
Band41	5MHz	64QAM	40620	25RB#0	23.14	26.3	33	PASS
Band41	5MHz	256QAM	40620	25RB#0	21.15	24.31	33	PASS
Band41	5MHz	QPSK	41565	1RB#0	25.86	29.02	33	PASS
Band41	5MHz	16QAM	41565	1RB#0	24.92	28.08	33	PASS
Band41	5MHz	64QAM	41565	1RB#0	24.22	27.38	33	PASS
Band41	5MHz	256QAM	41565	1RB#0	21.03	24.19	33	PASS
Band41	5MHz	QPSK	41565	1RB#12	25.83	28.99	33	PASS
Band41	5MHz	16QAM	41565	1RB#12	25.05	28.21	33	PASS
Band41	5MHz	64QAM	41565	1RB#12	24.25	27.41	33	PASS
Band41	5MHz	256QAM	41565	1RB#12	21.12	24.28	33	PASS
Band41	5MHz	QPSK	41565	1RB#24	25.78	28.94	33	PASS
Band41	5MHz	16QAM	41565	1RB#24	25.01	28.17	33	PASS
Band41	5MHz	64QAM	41565	1RB#24	24.27	27.43	33	PASS
Band41	5MHz	256QAM	41565	1RB#24	21.04	24.2	33	PASS
Band41	5MHz	QPSK	41565	25RB#0	24.9	28.06	33	PASS
Band41	5MHz	16QAM	41565	25RB#0	23.93	27.09	33	PASS
Band41	5MHz	64QAM	41565	25RB#0	22.95	26.11	33	PASS
Band41	5MHz	256QAM	41565	25RB#0	20.96	24.12	33	PASS
Band41	10MHz	QPSK	39700	1RB#0	25.91	29.07	33	PASS
Band41	10MHz	16QAM	39700	1RB#0	25.12	28.28	33	PASS
Band41	10MHz	64QAM	39700	1RB#0	24.28	27.44	33	PASS
Band41	10MHz	256QAM	39700	1RB#0	21.18	24.34	33	PASS
Band41	10MHz	QPSK	39700	1RB#24	25.92	29.08	33	PASS
Band41	10MHz	16QAM	39700	1RB#24	25.07	28.23	33	PASS
Band41	10MHz	64QAM	39700	1RB#24	24.37	27.53	33	PASS
Band41	10MHz	256QAM	39700	1RB#24	21.19	24.35	33	PASS
Band41	10MHz	QPSK	39700	1RB#49	25.96	29.12	33	PASS
Band41	10MHz	16QAM	39700	1RB#49	25.07	28.23	33	PASS
Band41	10MHz	64QAM	39700	1RB#49	24.24	27.4	33	PASS
Band41	10MHz	256QAM	39700	1RB#49	21.03	24.19	33	PASS
Band41	10MHz	QPSK	39700	50RB#0	25.05	28.21	33	PASS
Band41	10MHz	16QAM	39700	50RB#0	24.06	27.22	33	PASS
Band41	10MHz	64QAM	39700	50RB#0	23.07	26.23	33	PASS



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Band41	10MHz	256QAM	39700	50RB#0	21.04	24.2	33	PASS
Band41	10MHz	QPSK	40620	1RB#0	26.25	29.41	33	PASS
Band41	10MHz	16QAM	40620	1RB#0	25.31	28.47	33	PASS
Band41	10MHz	64QAM	40620	1RB#0	24.41	27.57	33	PASS
Band41	10MHz	256QAM	40620	1RB#0	21.22	24.38	33	PASS
Band41	10MHz	QPSK	40620	1RB#24	26.12	29.28	33	PASS
Band41	10MHz	16QAM	40620	1RB#24	25.25	28.41	33	PASS
Band41	10MHz	64QAM	40620	1RB#24	24.49	27.65	33	PASS
Band41	10MHz	256QAM	40620	1RB#24	21.39	24.55	33	PASS
Band41	10MHz	QPSK	40620	1RB#49	26	29.16	33	PASS
Band41	10MHz	16QAM	40620	1RB#49	25.3	28.46	33	PASS
Band41	10MHz	64QAM	40620	1RB#49	24.4	27.56	33	PASS
Band41	10MHz	256QAM	40620	1RB#49	21.26	24.42	33	PASS
Band41	10MHz	QPSK	40620	50RB#0	25.13	28.29	33	PASS
Band41	10MHz	16QAM	40620	50RB#0	24.17	27.33	33	PASS
Band41	10MHz	64QAM	40620	50RB#0	23.17	26.33	33	PASS
Band41	10MHz	256QAM	40620	50RB#0	21.14	24.3	33	PASS
Band41	10MHz	QPSK	41540	1RB#0	25.81	28.97	33	PASS
Band41	10MHz	16QAM	41540	1RB#0	24.97	28.13	33	PASS
Band41	10MHz	64QAM	41540	1RB#0	24.14	27.3	33	PASS
Band41	10MHz	256QAM	41540	1RB#0	21	24.16	33	PASS
Band41	10MHz	QPSK	41540	1RB#24	25.78	28.94	33	PASS
Band41	10MHz	16QAM	41540	1RB#24	24.94	28.1	33	PASS
Band41	10MHz	64QAM	41540	1RB#24	24.32	27.48	33	PASS
Band41	10MHz	256QAM	41540	1RB#24	21.12	24.28	33	PASS
Band41	10MHz	QPSK	41540	1RB#49	25.77	28.93	33	PASS
Band41	10MHz	16QAM	41540	1RB#49	24.93	28.09	33	PASS
Band41	10MHz	64QAM	41540	1RB#49	24.4	27.56	33	PASS
Band41	10MHz	256QAM	41540	1RB#49	21.05	24.21	33	PASS
Band41	10MHz	QPSK	41540	50RB#0	24.91	28.07	33	PASS
Band41	10MHz	16QAM	41540	50RB#0	23.94	27.1	33	PASS
Band41	10MHz	64QAM	41540	50RB#0	22.92	26.08	33	PASS
Band41	10MHz	256QAM	41540	50RB#0	20.93	24.09	33	PASS
Band41	15MHz	QPSK	39725	1RB#0	25.83	28.99	33	PASS



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Band41	15MHz	16QAM	39725	1RB#0	24.88	28.04	33	PASS
Band41	15MHz	64QAM	39725	1RB#0	24.03	27.19	33	PASS
Band41	15MHz	256QAM	39725	1RB#0	20.92	24.08	33	PASS
Band41	15MHz	QPSK	39725	1RB#38	25.78	28.94	33	PASS
Band41	15MHz	16QAM	39725	1RB#38	24.89	28.05	33	PASS
Band41	15MHz	64QAM	39725	1RB#38	24.12	27.28	33	PASS
Band41	15MHz	256QAM	39725	1RB#38	20.95	24.11	33	PASS
Band41	15MHz	QPSK	39725	1RB#74	25.69	28.85	33	PASS
Band41	15MHz	16QAM	39725	1RB#74	24.76	27.92	33	PASS
Band41	15MHz	64QAM	39725	1RB#74	24.04	27.2	33	PASS
Band41	15MHz	256QAM	39725	1RB#74	21.04	24.2	33	PASS
Band41	15MHz	QPSK	39725	75RB#0	24.84	28	33	PASS
Band41	15MHz	16QAM	39725	75RB#0	23.93	27.09	33	PASS
Band41	15MHz	64QAM	39725	75RB#0	22.88	26.04	33	PASS
Band41	15MHz	256QAM	39725	75RB#0	20.92	24.08	33	PASS
Band41	15MHz	QPSK	40620	1RB#0	25.91	29.07	33	PASS
Band41	15MHz	16QAM	40620	1RB#0	25.13	28.29	33	PASS
Band41	15MHz	64QAM	40620	1RB#0	24.23	27.39	33	PASS
Band41	15MHz	256QAM	40620	1RB#0	21.06	24.22	33	PASS
Band41	15MHz	QPSK	40620	1RB#38	25.91	29.07	33	PASS
Band41	15MHz	16QAM	40620	1RB#38	25.15	28.31	33	PASS
Band41	15MHz	64QAM	40620	1RB#38	24.29	27.45	33	PASS
Band41	15MHz	256QAM	40620	1RB#38	21.18	24.34	33	PASS
Band41	15MHz	QPSK	40620	1RB#74	25.88	29.04	33	PASS
Band41	15MHz	16QAM	40620	1RB#74	25.06	28.22	33	PASS
Band41	15MHz	64QAM	40620	1RB#74	24.35	27.51	33	PASS
Band41	15MHz	256QAM	40620	1RB#74	21.22	24.38	33	PASS
Band41	15MHz	QPSK	40620	75RB#0	24.98	28.14	33	PASS
Band41	15MHz	16QAM	40620	75RB#0	24.02	27.18	33	PASS
Band41	15MHz	64QAM	40620	75RB#0	23.03	26.19	33	PASS
Band41	15MHz	256QAM	40620	75RB#0	21.07	24.23	33	PASS
Band41	15MHz	QPSK	41515	1RB#0	25.51	28.67	33	PASS
Band41	15MHz	16QAM	41515	1RB#0	24.73	27.89	33	PASS
Band41	15MHz	64QAM	41515	1RB#0	24.06	27.22	33	PASS



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Band41	15MHz	256QAM	41515	1RB#0	20.82	23.98	33	PASS
Band41	15MHz	QPSK	41515	1RB#38	25.54	28.7	33	PASS
Band41	15MHz	16QAM	41515	1RB#38	24.75	27.91	33	PASS
Band41	15MHz	64QAM	41515	1RB#38	23.93	27.09	33	PASS
Band41	15MHz	256QAM	41515	1RB#38	20.91	24.07	33	PASS
Band41	15MHz	QPSK	41515	1RB#74	25.72	28.88	33	PASS
Band41	15MHz	16QAM	41515	1RB#74	24.85	28.01	33	PASS
Band41	15MHz	64QAM	41515	1RB#74	24.03	27.19	33	PASS
Band41	15MHz	256QAM	41515	1RB#74	20.97	24.13	33	PASS
Band41	15MHz	QPSK	41515	75RB#0	24.77	27.93	33	PASS
Band41	15MHz	16QAM	41515	75RB#0	23.8	26.96	33	PASS
Band41	15MHz	64QAM	41515	75RB#0	22.81	25.97	33	PASS
Band41	15MHz	256QAM	41515	75RB#0	20.84	24	33	PASS
Band41	20MHz	QPSK	39750	1RB#0	25.8	28.96	33	PASS
Band41	20MHz	16QAM	39750	1RB#0	24.86	28.02	33	PASS
Band41	20MHz	64QAM	39750	1RB#0	24.01	27.17	33	PASS
Band41	20MHz	256QAM	39750	1RB#0	20.95	24.11	33	PASS
Band41	20MHz	QPSK	39750	1RB#49	25.88	29.04	33	PASS
Band41	20MHz	16QAM	39750	1RB#49	24.92	28.08	33	PASS
Band41	20MHz	64QAM	39750	1RB#49	24.15	27.31	33	PASS
Band41	20MHz	256QAM	39750	1RB#49	20.98	24.14	33	PASS
Band41	20MHz	QPSK	39750	1RB#99	25.82	28.98	33	PASS
Band41	20MHz	16QAM	39750	1RB#99	24.8	27.96	33	PASS
Band41	20MHz	64QAM	39750	1RB#99	24.09	27.25	33	PASS
Band41	20MHz	256QAM	39750	1RB#99	21.05	24.21	33	PASS
Band41	20MHz	QPSK	39750	100RB#0	24.87	28.03	33	PASS
Band41	20MHz	16QAM	39750	100RB#0	23.88	27.04	33	PASS
Band41	20MHz	64QAM	39750	100RB#0	22.92	26.08	33	PASS
Band41	20MHz	256QAM	39750	100RB#0	20.93	24.09	33	PASS
Band41	20MHz	QPSK	40620	1RB#0	26.01	29.17	33	PASS
Band41	20MHz	16QAM	40620	1RB#0	25	28.16	33	PASS
Band41	20MHz	64QAM	40620	1RB#0	24.27	27.43	33	PASS
Band41	20MHz	256QAM	40620	1RB#0	21.11	24.27	33	PASS
Band41	20MHz	QPSK	40620	1RB#49	26.03	29.19	33	PASS



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Band41	20MHz	16QAM	40620	1RB#49	25.12	28.28	33	PASS
Band41	20MHz	64QAM	40620	1RB#49	24.33	27.49	33	PASS
Band41	20MHz	256QAM	40620	1RB#49	21.3	24.46	33	PASS
Band41	20MHz	QPSK	40620	1RB#99	25.92	29.08	33	PASS
Band41	20MHz	16QAM	40620	1RB#99	24.98	28.14	33	PASS
Band41	20MHz	64QAM	40620	1RB#99	24.29	27.45	33	PASS
Band41	20MHz	256QAM	40620	1RB#99	21.16	24.32	33	PASS
Band41	20MHz	QPSK	40620	100RB#0	25	28.16	33	PASS
Band41	20MHz	16QAM	40620	100RB#0	24.01	27.17	33	PASS
Band41	20MHz	64QAM	40620	100RB#0	23.04	26.2	33	PASS
Band41	20MHz	256QAM	40620	100RB#0	21.05	24.21	33	PASS
Band41	20MHz	QPSK	41490	1RB#0	25.72	28.88	33	PASS
Band41	20MHz	16QAM	41490	1RB#0	24.82	27.98	33	PASS
Band41	20MHz	64QAM	41490	1RB#0	24.02	27.18	33	PASS
Band41	20MHz	256QAM	41490	1RB#0	20.87	24.03	33	PASS
Band41	20MHz	QPSK	41490	1RB#49	25.67	28.83	33	PASS
Band41	20MHz	16QAM	41490	1RB#49	24.74	27.9	33	PASS
Band41	20MHz	64QAM	41490	1RB#49	24.06	27.22	33	PASS
Band41	20MHz	256QAM	41490	1RB#49	20.93	24.09	33	PASS
Band41	20MHz	QPSK	41490	1RB#99	25.8	28.96	33	PASS
Band41	20MHz	16QAM	41490	1RB#99	25.11	28.27	33	PASS
Band41	20MHz	64QAM	41490	1RB#99	24.04	27.2	33	PASS
Band41	20MHz	256QAM	41490	1RB#99	21.05	24.21	33	PASS
Band41	20MHz	QPSK	41490	100RB#0	24.73	27.89	33	PASS
Band41	20MHz	16QAM	41490	100RB#0	23.74	26.9	33	PASS
Band41	20MHz	64QAM	41490	100RB#0	22.73	25.89	33	PASS
Band41	20MHz	256QAM	41490	100RB#0	20.75	23.91	33	PASS



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2. Frequency Stability

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	3.135	-1.398	-0.0006	/	Pass
					3.7	-1.232	-0.0005	/	Pass
					4.4	2.533	0.0010	/	Pass
				-30	3.7	2.726	0.0011	/	Pass
				-20	3.7	2.530	0.0010	/	Pass
				-10	3.7	-1.611	-0.0006	/	Pass
				0	3.7	-2.269	-0.0009	/	Pass
				10	3.7	-1.701	-0.0007	/	Pass
				30	3.7	1.095	0.0004	/	Pass
				40	3.7	-0.197	-0.0001	/	Pass
				50	3.7	2.017	0.0008	/	Pass
	2593	100	0	20	3.135	2.359	0.0009	/	Pass
					3.7	2.650	0.0010	/	Pass
					4.4	2.914	0.0011	/	Pass
				-30	3.7	-0.362	-0.0001	/	Pass
				-20	3.7	-0.207	-0.0001	/	Pass
				-10	3.7	1.891	0.0007	/	Pass
				0	3.7	1.704	0.0007	/	Pass
				10	3.7	1.777	0.0007	/	Pass
				30	3.7	3.500	0.0013	/	Pass
				40	3.7	2.223	0.0009	/	Pass
				50	3.7	3.001	0.0012	/	Pass
	2680	100	0	20	3.135	1.939	0.0007	/	Pass
					3.7	2.475	0.0009	/	Pass
					4.4	2.881	0.0011	/	Pass
				-30	3.7	2.717	0.0010	/	Pass
				-20	3.7	-0.446	-0.0002	/	Pass
				-10	3.7	-0.697	-0.0003	/	Pass
				0	3.7	-0.922	-0.0003	/	Pass
				10	3.7	-1.693	-0.0006	/	Pass
				30	3.7	-3.084	-0.0012	/	Pass
				40	3.7	2.047	0.0008	/	Pass
				50	3.7	-1.551	-0.0006	/	Pass



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3. Field Strength of Spurious Radiation

For report SUCR240400009001:

Test Band = LTE_B41
Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3709	54.41	-49.92	30.34	-60.43	-25.00	35.43	Horizontal
2	5695	51.63	-46.13	33.48	-56.28	-25.00	31.28	Horizontal
3	8547	49.13	-41.42	39.03	-48.52	-25.00	23.52	Horizontal
4	10688	47.76	-39.29	39.48	-47.31	-25.00	22.31	Horizontal
5	15022	47.21	-35.06	39.88	-43.23	-25.00	18.23	Horizontal
6	17990	48.99	-38.98	42.74	-42.51	-25.00	17.51	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3622	54.20	-49.53	30.29	-60.30	-25.00	35.30	Vertical
2	5015	51.99	-47.40	33.19	-57.48	-25.00	32.48	Vertical
3	6968	51.53	-44.17	36.44	-51.46	-25.00	26.46	Vertical
4	8966.5	49.97	-41.60	38.60	-48.29	-25.00	23.29	Vertical
5	14000.5	47.14	-36.31	40.50	-43.93	-25.00	18.93	Vertical
6	17992	48.73	-38.98	42.75	-42.76	-25.00	17.76	Vertical



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Test Band = LTE_B41

Test Channel = MCH

Final Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3892	53.53	-49.34	30.57	-60.50	-25.00	35.50	Horizontal
2	5149.5	52.67	-47.18	33.60	-56.17	-25.00	31.17	Horizontal
3	7363	50.40	-43.52	36.87	-51.51	-25.00	26.51	Horizontal
4	8997.5	49.34	-41.17	38.79	-48.30	-25.00	23.30	Horizontal
5	12841	47.34	-36.98	39.38	-45.52	-25.00	20.52	Horizontal
6	16938.5	48.34	-35.63	38.68	-43.87	-25.00	18.87	Horizontal

Final Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3628	54.41	-49.52	30.31	-60.06	-25.00	35.06	Vertical
2	5155	52.52	-47.10	33.47	-56.37	-25.00	31.37	Vertical
3	7116.5	50.74	-44.06	36.97	-51.61	-25.00	26.61	Vertical
4	8536	49.62	-41.64	38.76	-48.52	-25.00	23.52	Vertical
5	12845.5	47.50	-36.96	39.39	-45.33	-25.00	20.33	Vertical
6	17658	49.69	-38.34	41.33	-42.58	-25.00	17.58	Vertical



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Test Band = LTE_B41
Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3621	54.08	-49.53	30.28	-60.43	-25.00	35.43	Horizontal
2	4252	53.42	-48.42	32.09	-58.17	-25.00	33.17	Horizontal
3	5144	53.17	-47.21	33.59	-55.71	-25.00	30.71	Horizontal
4	7865	49.86	-42.91	37.19	-51.12	-25.00	26.12	Horizontal
5	9534	49.44	-41.00	39.13	-47.69	-25.00	22.69	Horizontal
6	15031	47.62	-35.18	39.87	-42.95	-25.00	17.95	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3610.5	54.26	-49.54	30.24	-60.30	-25.00	35.30	Vertical
2	4594	52.79	-47.74	32.10	-58.11	-25.00	33.11	Vertical
3	6268.5	51.05	-45.14	34.51	-54.84	-25.00	29.84	Vertical
4	8546	49.22	-41.44	39.00	-48.48	-25.00	23.48	Vertical
5	11394	48.10	-38.54	39.69	-46.01	-25.00	21.01	Vertical
6	15025.5	47.44	-35.11	39.87	-43.06	-25.00	18.06	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



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For report SUCR240400008901:

Test Band = LTE_41_TM1
Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3519	47.06	-44.40	29.06	-63.54	-25.00	38.54	Horizontal
2	5400.5	45.56	-41.82	32.50	-59.02	-25.00	34.02	Horizontal
3	8521	42.40	-36.20	36.54	-52.52	-25.00	27.52	Horizontal
4	11529	43.17	-34.58	40.23	-46.44	-25.00	21.44	Horizontal
5	13429	43.34	-33.05	39.69	-45.28	-25.00	20.28	Horizontal
6	17989	40.38	-39.76	48.00	-46.64	-25.00	21.64	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3363	47.55	-44.55	28.60	-63.66	-25.00	38.66	Vertical
2	5596	45.53	-41.50	32.57	-58.66	-25.00	33.66	Vertical
3	7491	44.01	-38.01	36.88	-52.38	-25.00	27.38	Vertical
4	11042	42.49	-34.22	40.14	-46.85	-25.00	21.85	Vertical
5	13161	43.12	-32.81	39.50	-45.45	-25.00	20.45	Vertical
6	16540	40.93	-31.02	39.38	-45.97	-25.00	20.97	Vertical



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Test Band = LTE_41_TM1
Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3595.5	47.10	-44.34	28.91	-63.59	-25.00	38.59	Horizontal
2	5464.5	45.59	-41.65	32.26	-59.06	-25.00	34.06	Horizontal
3	7505.5	43.66	-38.08	36.85	-52.83	-25.00	27.83	Horizontal
4	11016.5	42.33	-33.97	40.12	-46.78	-25.00	21.78	Horizontal
5	13303	42.51	-32.85	39.89	-45.71	-25.00	20.71	Horizontal
6	16576	40.23	-30.91	39.45	-46.49	-25.00	21.49	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3939.5	47.10	-43.79	29.86	-62.09	-25.00	37.09	Vertical
2	6068.5	45.41	-40.48	33.46	-56.87	-25.00	31.87	Vertical
3	9487.5	42.20	-34.99	37.73	-50.32	-25.00	25.32	Vertical
4	12308	43.36	-34.04	39.25	-46.69	-25.00	21.69	Vertical
5	15284.5	41.60	-30.69	39.87	-44.48	-25.00	19.48	Vertical
6	17987	40.39	-39.76	47.97	-46.66	-25.00	21.66	Vertical



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Test Band = LTE_41_TM1
Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3648.5	47.03	-44.31	29.29	-63.25	-25.00	38.25	Horizontal
2	5441.5	45.78	-41.75	32.25	-58.98	-25.00	33.98	Horizontal
3	7680	43.17	-37.31	36.72	-52.68	-25.00	27.68	Horizontal
4	10567	42.54	-34.76	39.17	-48.31	-25.00	23.31	Horizontal
5	14802	41.49	-32.50	41.59	-44.68	-25.00	19.68	Horizontal
6	16967.5	41.03	-33.03	40.94	-46.32	-25.00	21.32	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3931	46.64	-43.83	29.82	-62.63	-25.00	37.63	Vertical
2	6089.5	45.09	-40.37	33.42	-57.12	-25.00	32.12	Vertical
3	9321	42.35	-35.45	37.23	-51.13	-25.00	26.13	Vertical
4	11540.5	43.19	-34.56	40.24	-46.39	-25.00	21.39	Vertical
5	14803.5	41.42	-32.51	41.58	-44.77	-25.00	19.77	Vertical
6	16964.5	41.05	-32.98	40.91	-46.28	-25.00	21.28	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



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4. 99% & 26dB Bandwidth

4.1 Band41_OBW

4.1.1 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	4.589	/	Pass
		2593	25	0	4.562	/	Pass
		2687.5	25	0	4.575	/	Pass
	16QAM	2498.5	25	0	4.571	/	Pass
		2593	25	0	4.574	/	Pass
		2687.5	25	0	4.574	/	Pass
	64QAM	2498.5	25	0	4.567	/	Pass
		2593	25	0	4.567	/	Pass
		2687.5	25	0	4.574	/	Pass
	256QAM	2498.5	25	0	4.576	/	Pass
		2593	25	0	4.560	/	Pass
		2687.5	25	0	4.575	/	Pass
10	QPSK	2501	50	0	9.079	/	Pass
		2593	50	0	9.060	/	Pass
		2685	50	0	9.114	/	Pass
	16QAM	2501	50	0	9.052	/	Pass
		2593	50	0	9.072	/	Pass
		2685	50	0	9.075	/	Pass
	64QAM	2501	50	0	9.059	/	Pass
		2593	50	0	9.082	/	Pass
		2685	50	0	9.087	/	Pass
	256QAM	2501	50	0	9.102	/	Pass
		2593	50	0	9.065	/	Pass
		2685	50	0	9.086	/	Pass
15	QPSK	2503.5	75	0	13.652	/	Pass
		2593	75	0	13.625	/	Pass
		2682.5	75	0	13.622	/	Pass
	16QAM	2503.5	75	0	13.642	/	Pass
		2593	75	0	13.637	/	Pass
		2682.5	75	0	13.579	/	Pass
	64QAM	2503.5	75	0	13.627	/	Pass
		2593	75	0	13.649	/	Pass
		2682.5	75	0	13.605	/	Pass
	256QAM	2503.5	75	0	13.619	/	Pass
		2593	75	0	13.582	/	Pass
		2682.5	75	0	13.626	/	Pass
20	QPSK	2506	100	0	18.122	/	Pass
		2593	100	0	18.118	/	Pass
		2680	100	0	18.146	/	Pass



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	16QAM	2506	100	0	18.139	/	Pass
		2593	100	0	18.128	/	Pass
		2680	100	0	18.124	/	Pass
	64QAM	2506	100	0	18.039	/	Pass
		2593	100	0	18.133	/	Pass
		2680	100	0	18.106	/	Pass
	256QAM	2506	100	0	18.121	/	Pass
		2593	100	0	18.103	/	Pass
		2680	100	0	18.127	/	Pass



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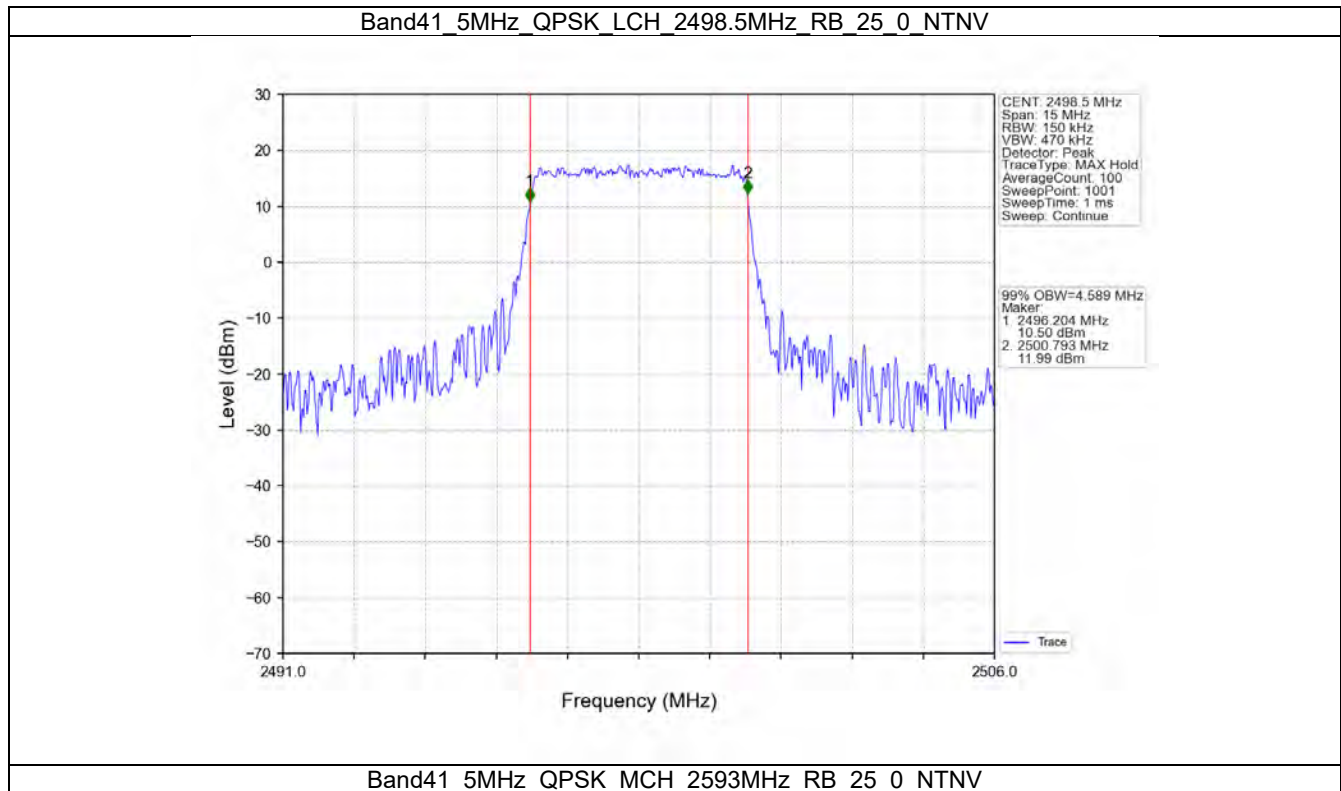
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4.1.2 Test Graph



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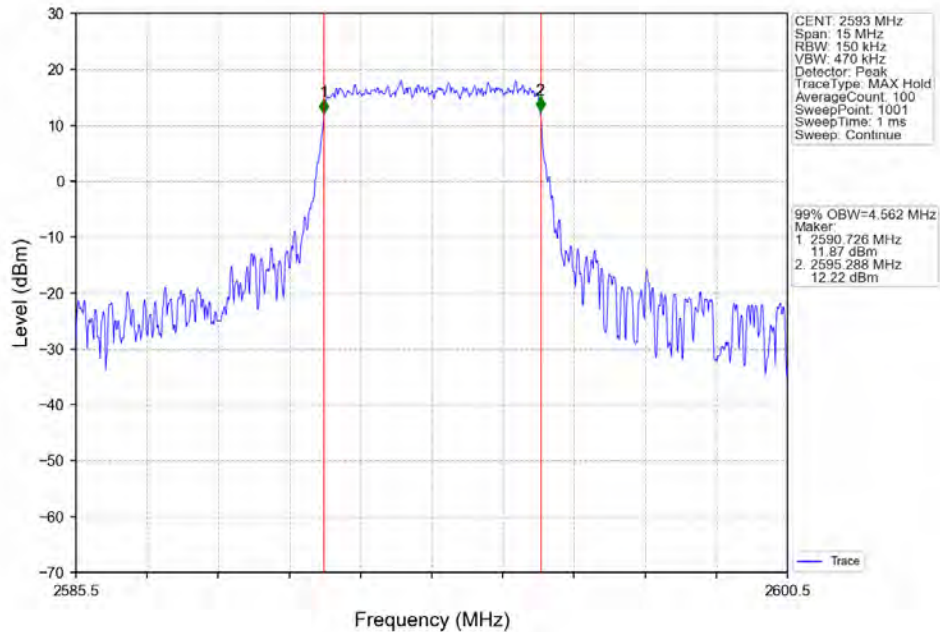
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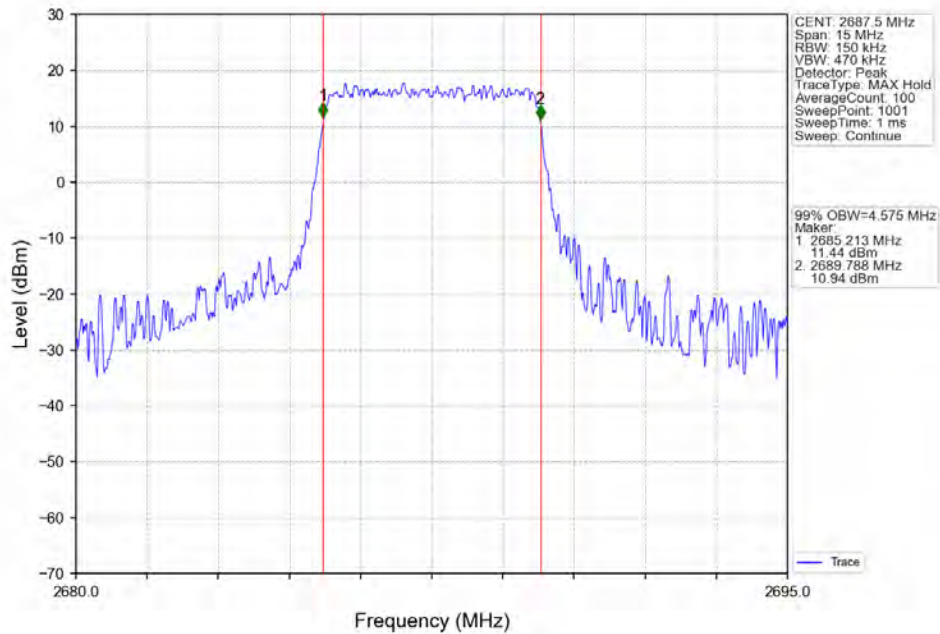
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Band41_5MHz_16QAM_LCH_2498.5MHz_RB_25_0_NTNV



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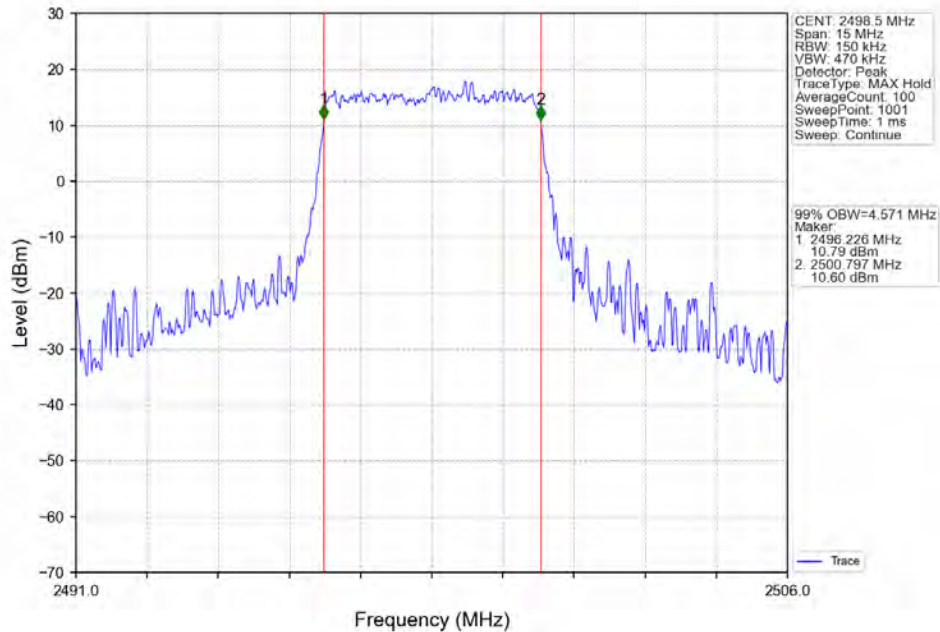
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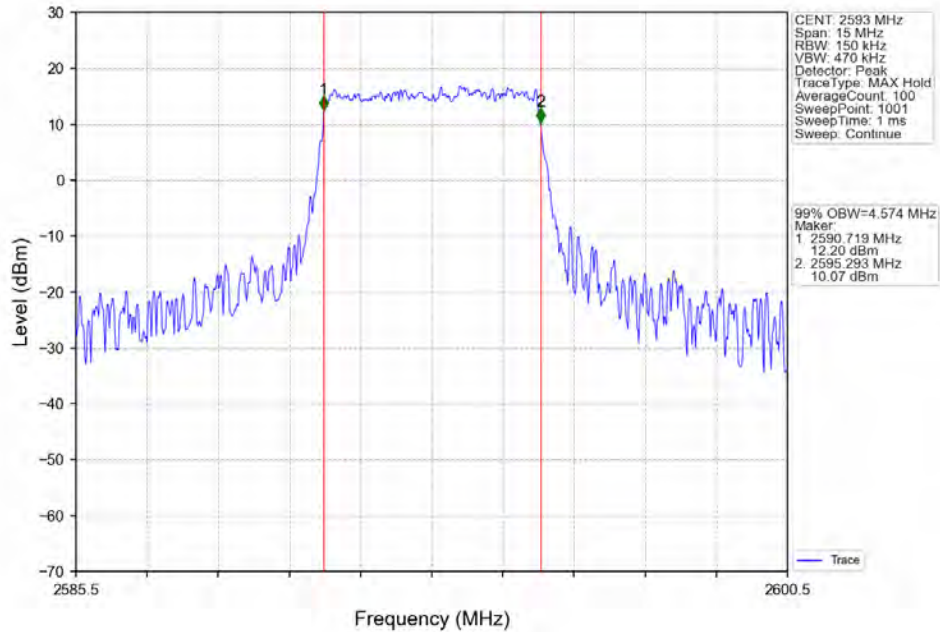
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Band41_5MHz_16QAM_HCH_2687.5MHz_RB_25_0_NTNV



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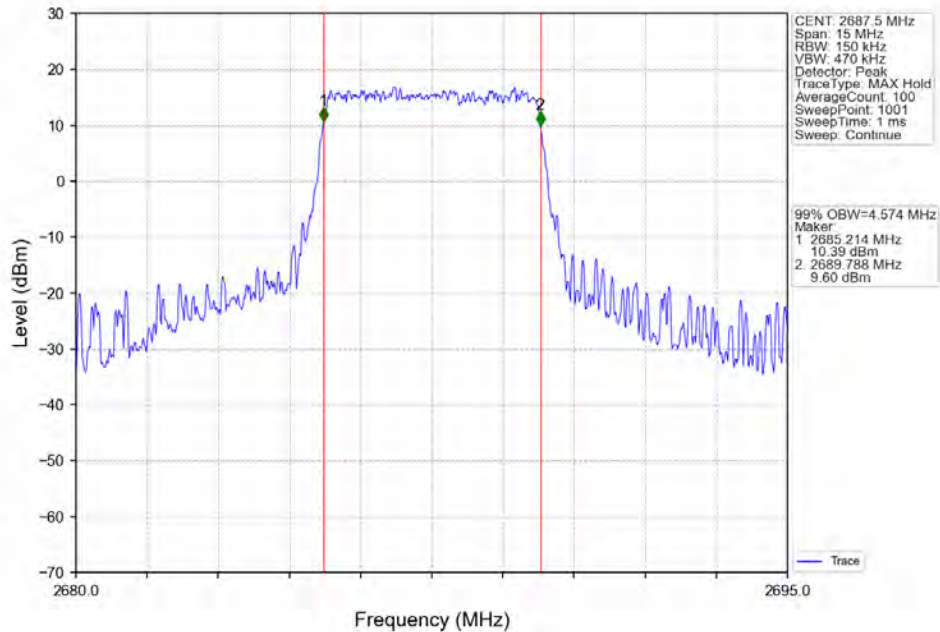
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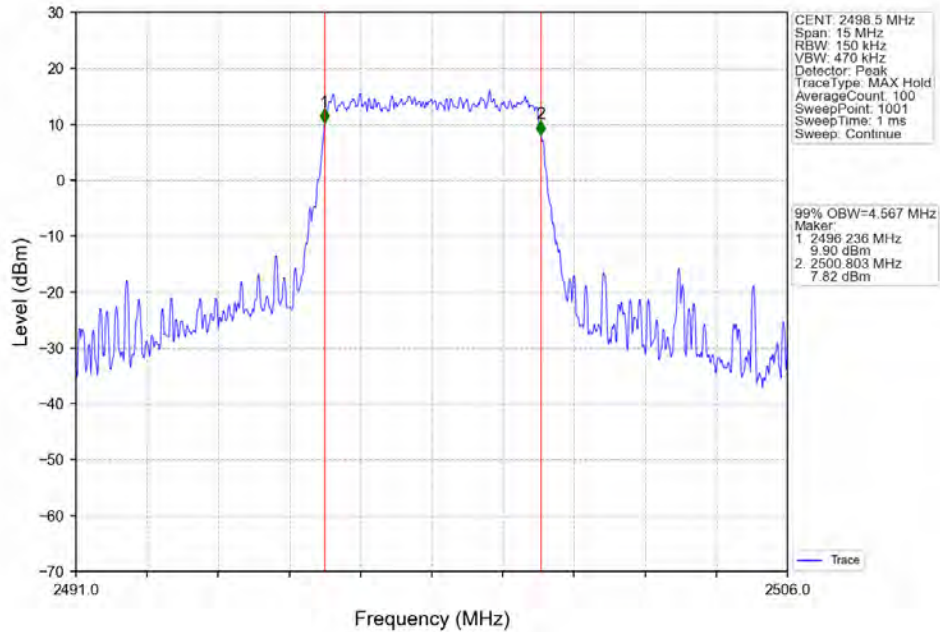
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Band41_5MHz_64QAM_MCH_2593MHz_RB_25_0_NTNV



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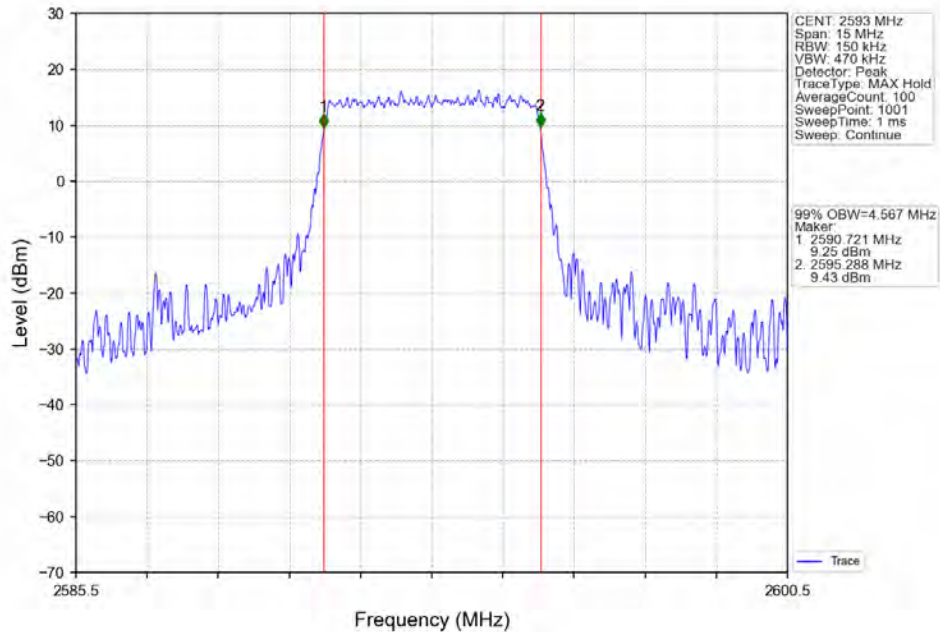
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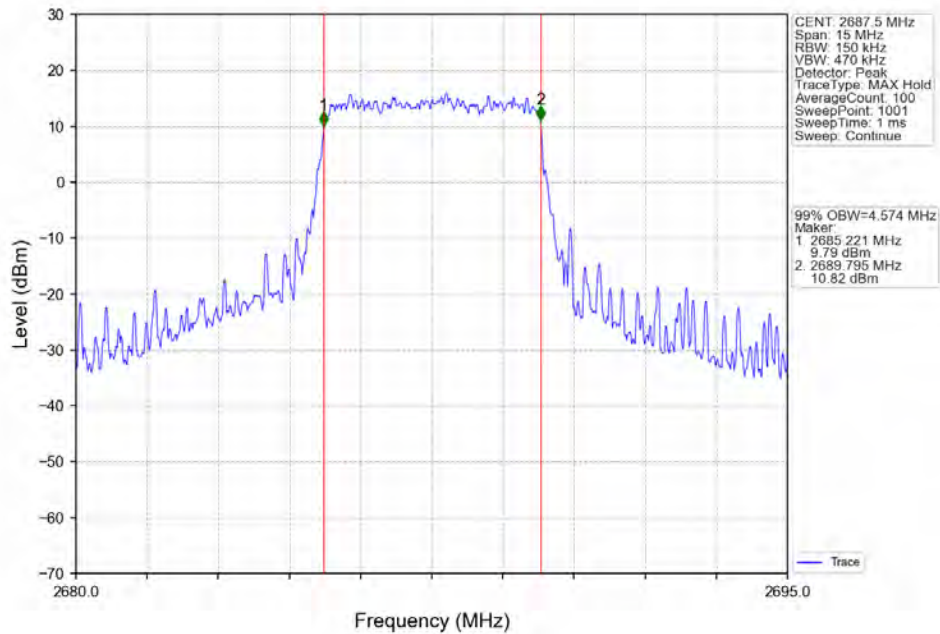
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Band41_5MHz_64QAM_HCH_2687.5MHz_RB_25_0_NTNV



Band41_5MHz_256QAM_LCH_2498.5MHz_RB_25_0_NTNV



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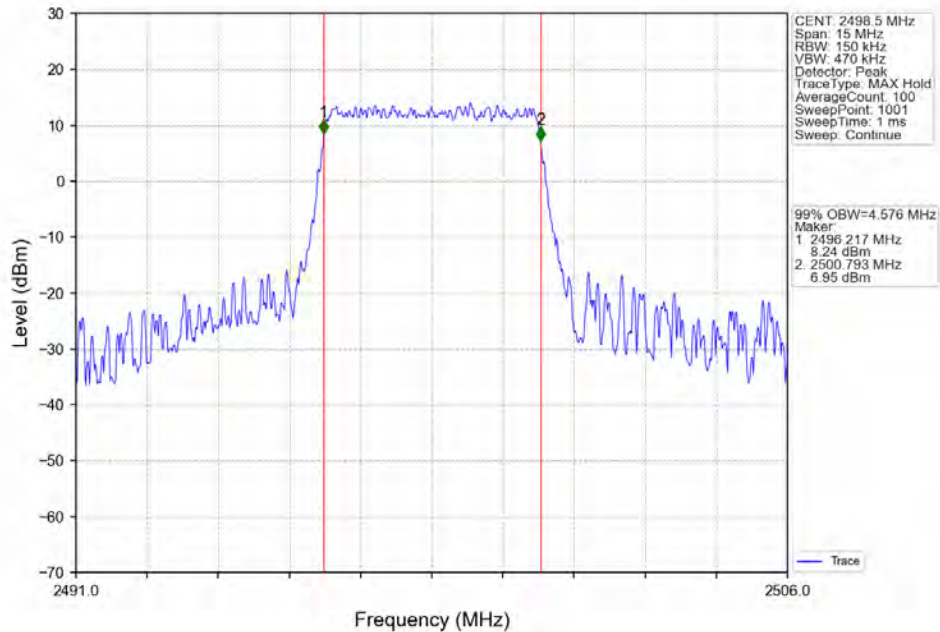
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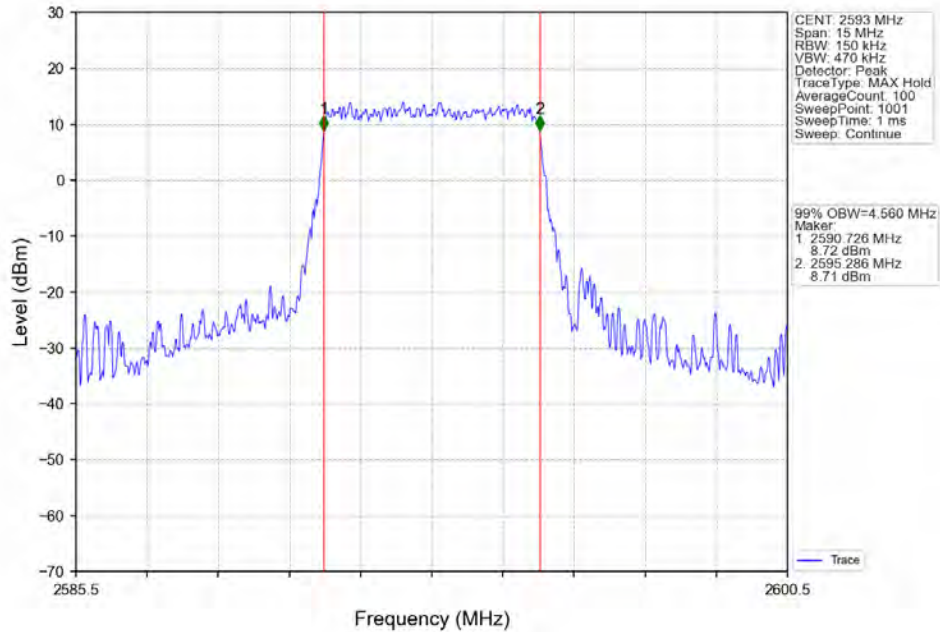
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Band41_5MHz_256QAM_HCH_2687.5MHz_RB_25_0_NTNV



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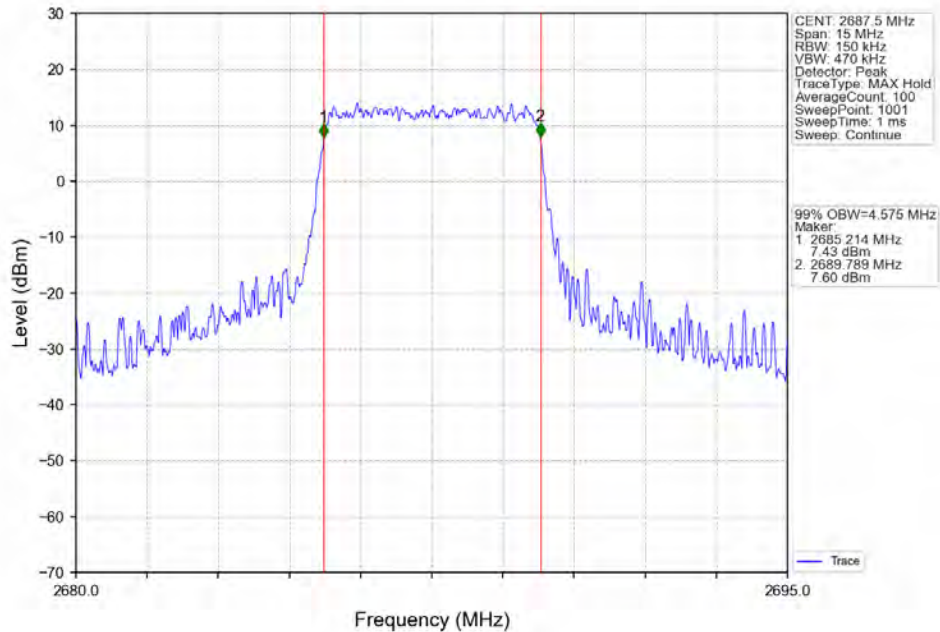
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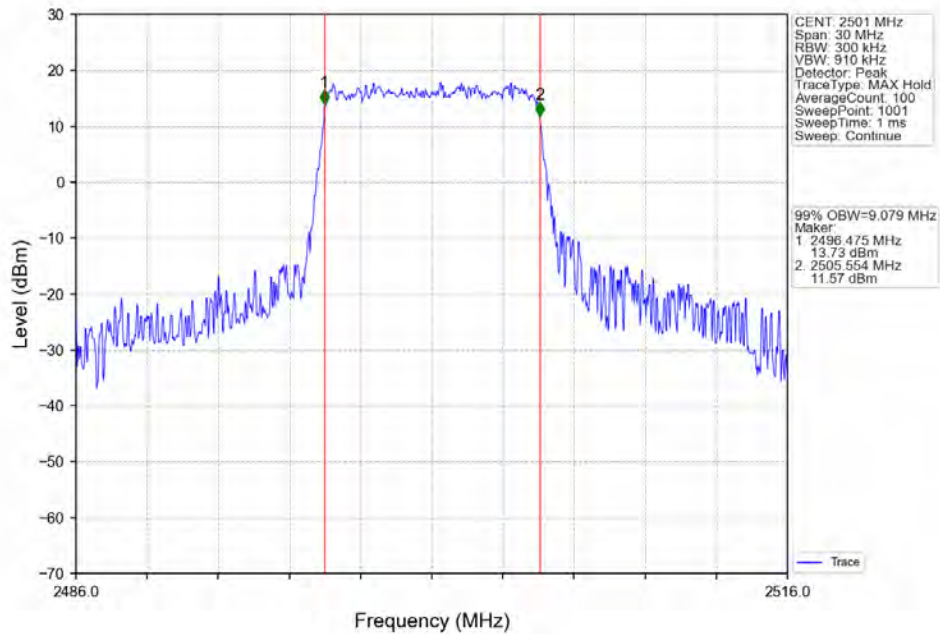
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Band41_10MHz_QPSK_LCH_2501MHz_RB_50_0_NTNV



Band41_10MHz_QPSK_MCH_2593MHz_RB_50_0_NTNV



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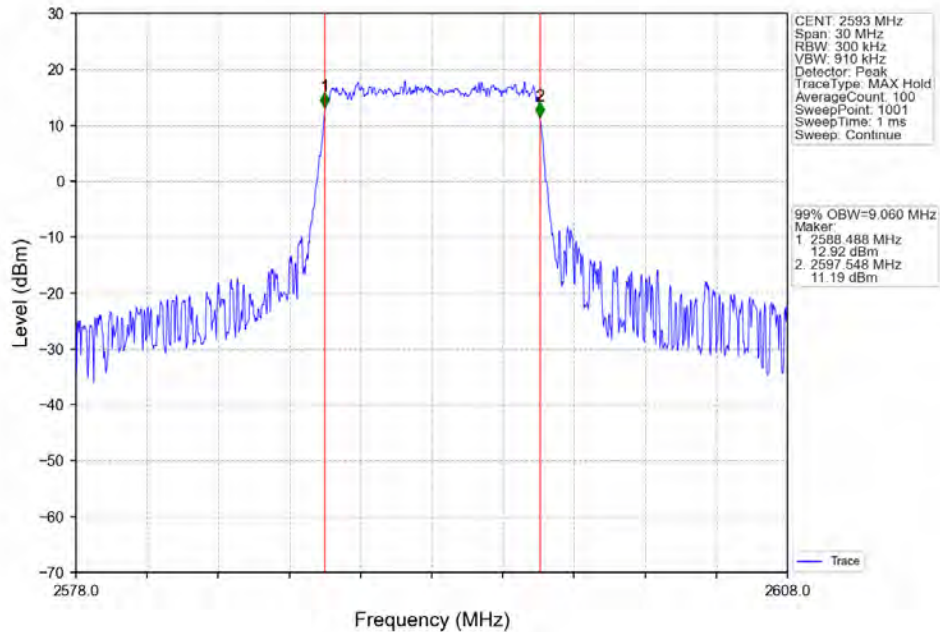
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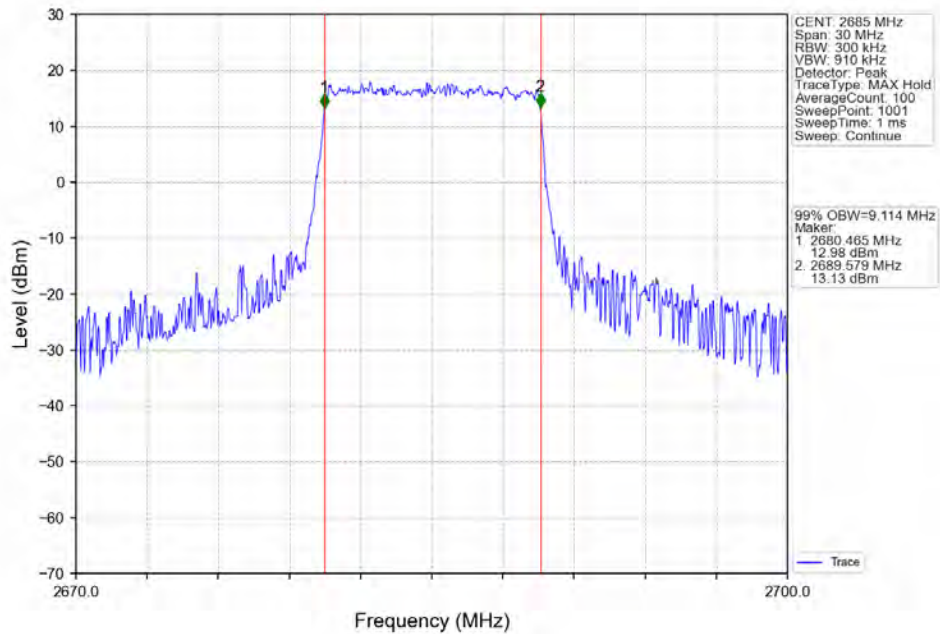
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Band41_10MHz_16QAM_LCH_2501MHz_RB_50_0_NTNV



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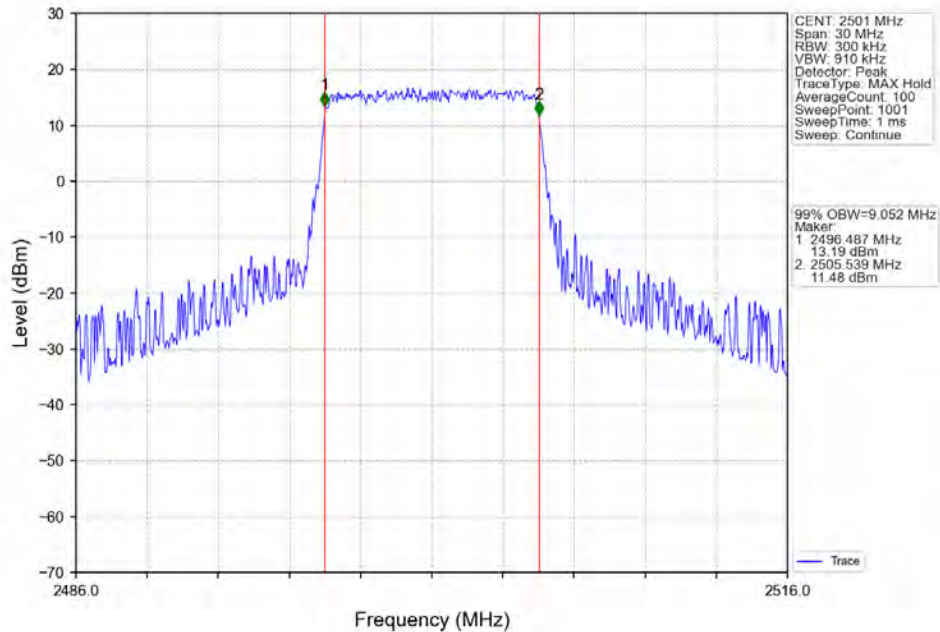
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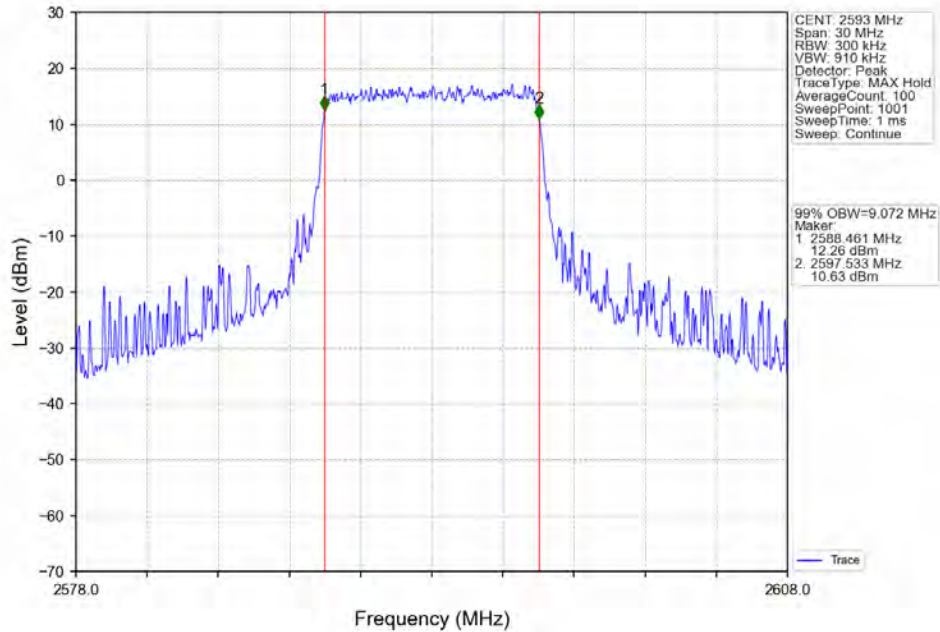
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Band41 10MHz 16QAM MCH 2593MHz RB 50 0 NTNV



Band41 10MHz 16QAM HCH 2685MHz RB 50 0 NTNV



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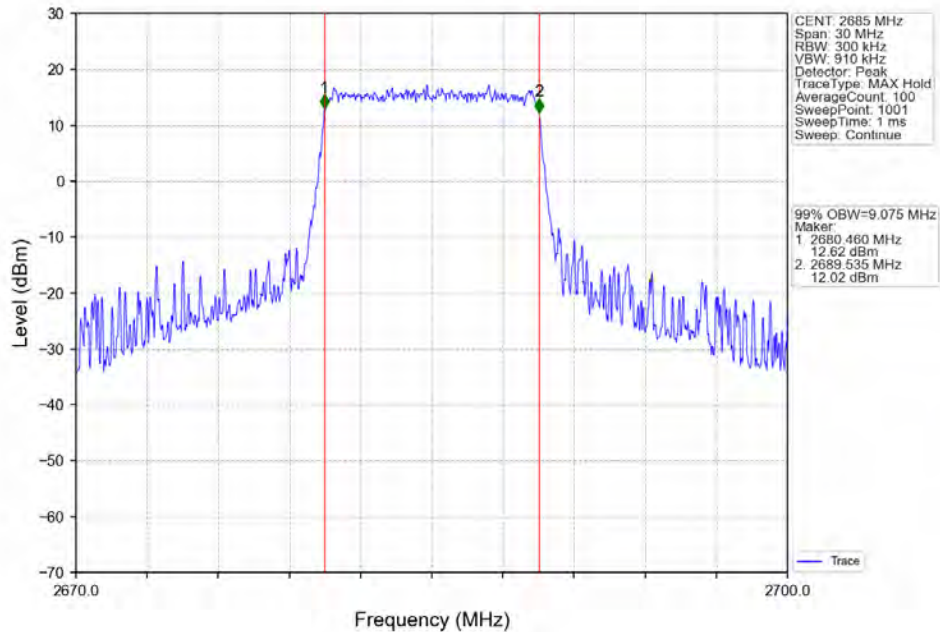
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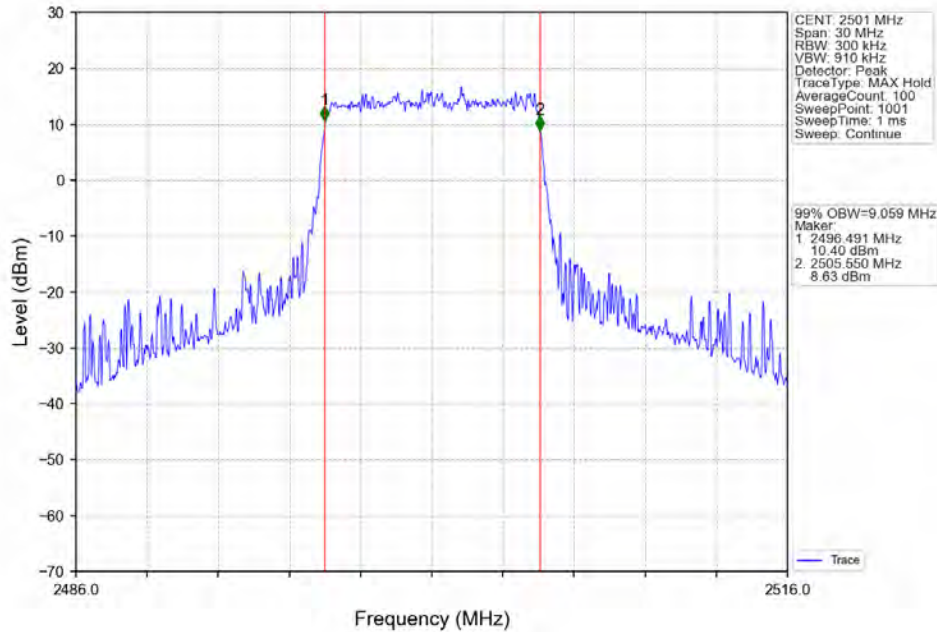
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Band41 10MHz 64QAM LCH 2501MHz RB 50 0 NTN



Band41 10MHz 64QAM MCH 2593MHz RB 50 0 NTN



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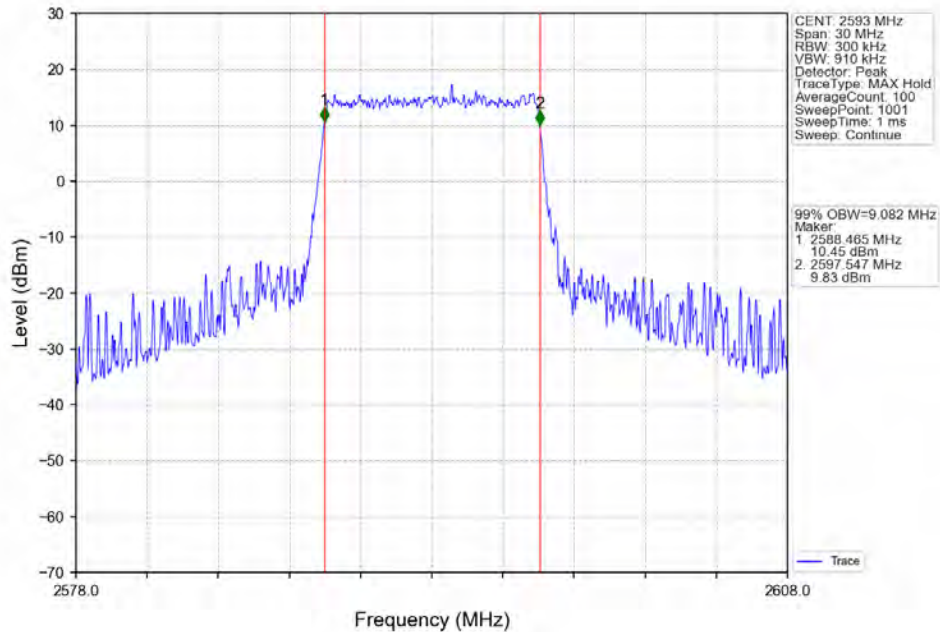
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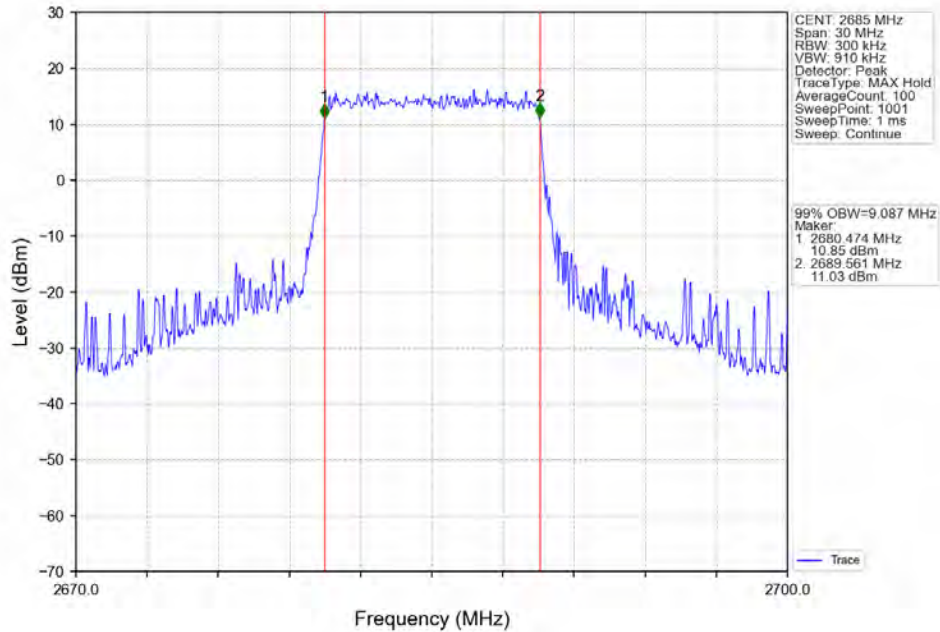
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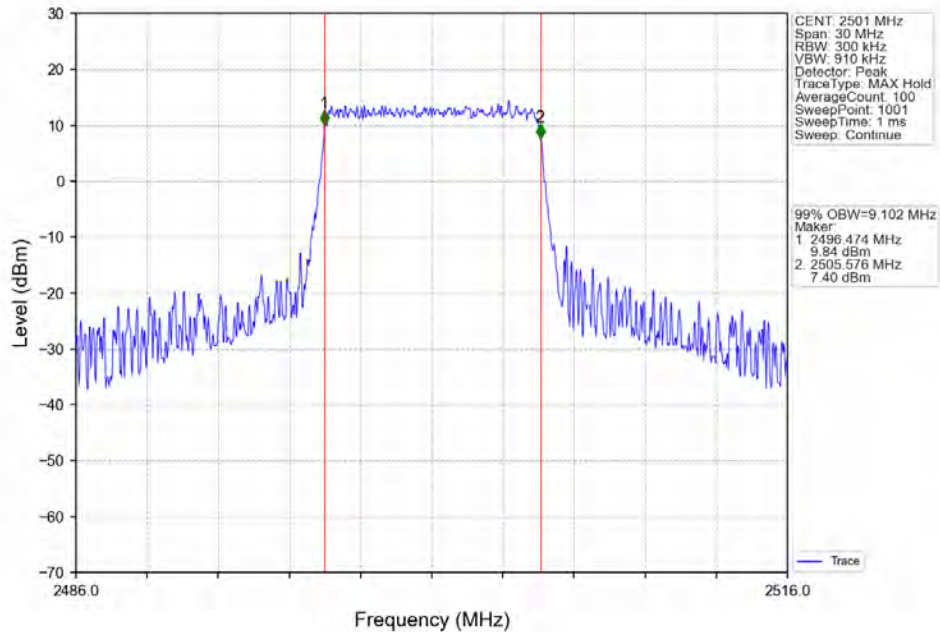
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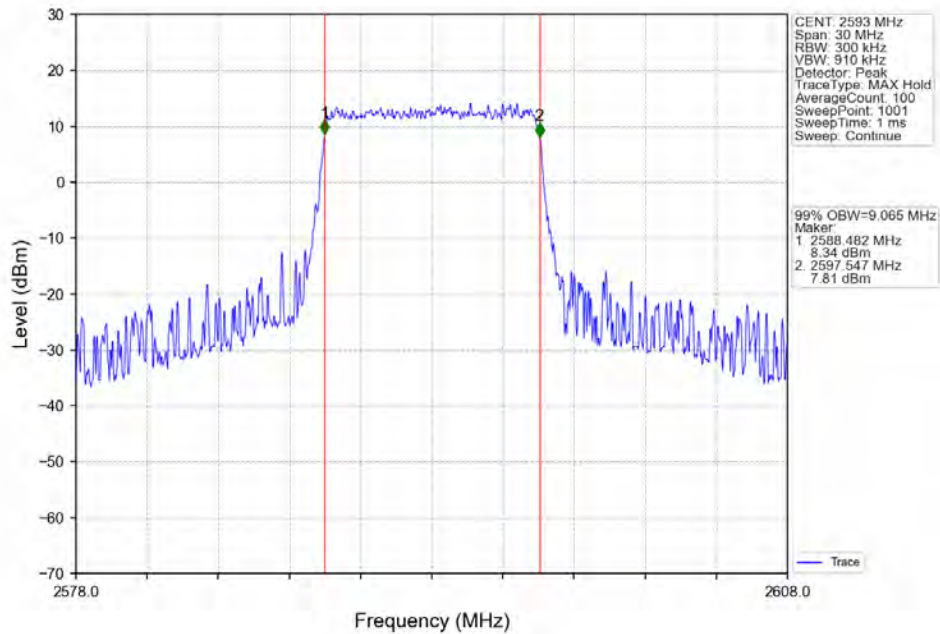
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Band41_10MHz_256QAM_HCH_2685MHz_RB_50_0_NTNV



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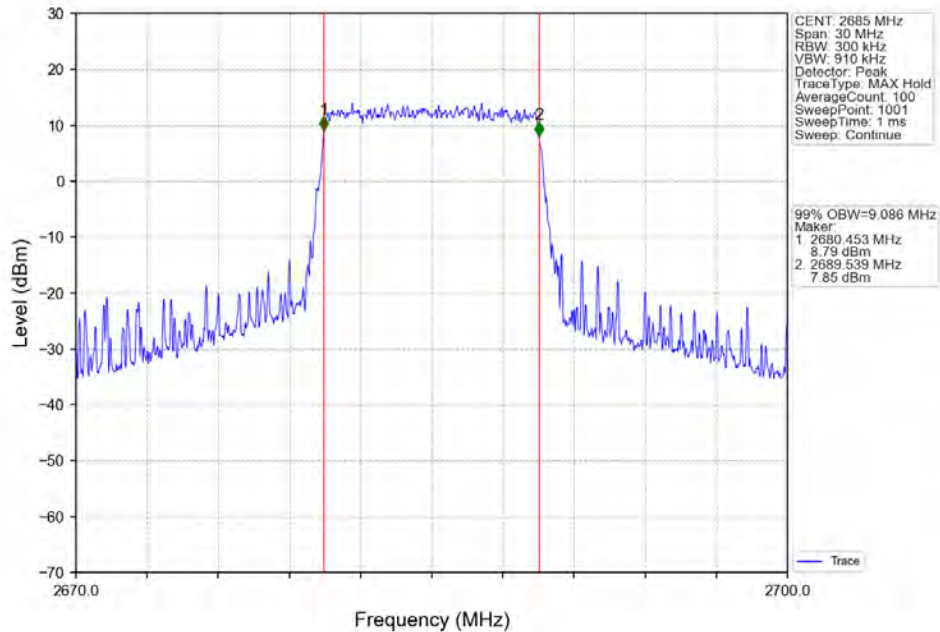
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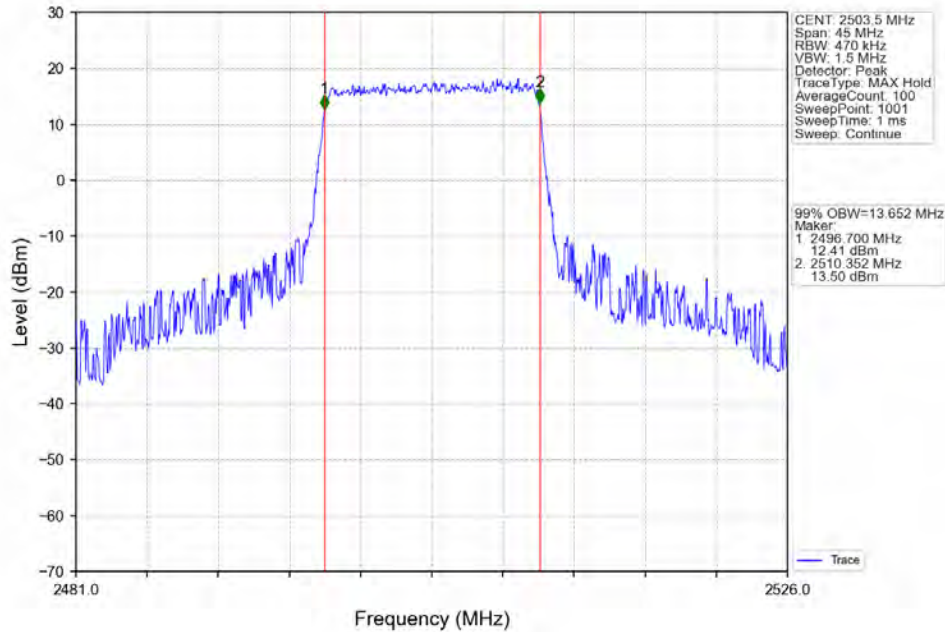
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Band41_15MHz_QPSK_MCH_2593MHz_RB_75_0_NTNV



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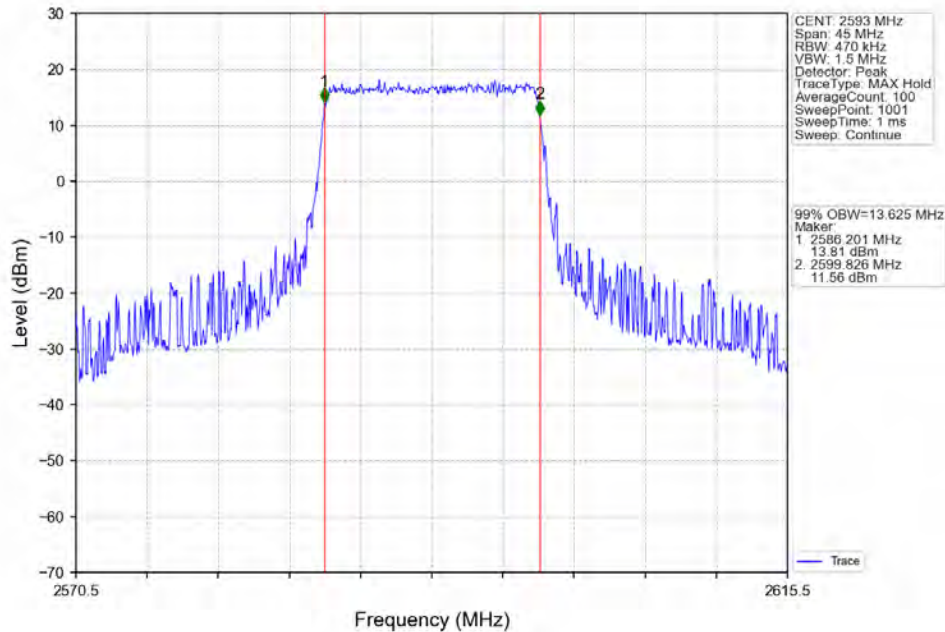
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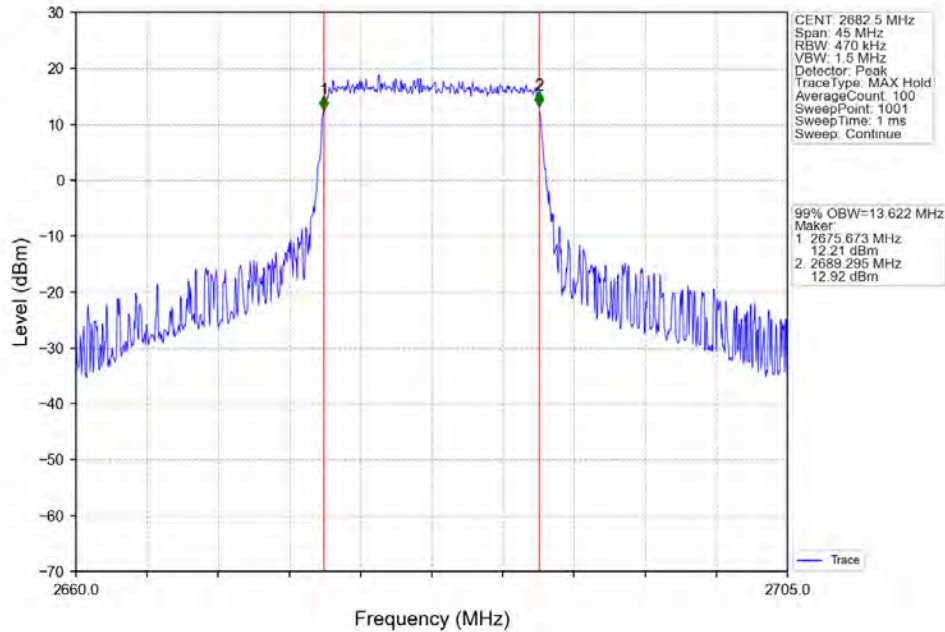
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Band41_15MHz_16QAM_LCH_2503.5MHz_RB_75_0_NTNV



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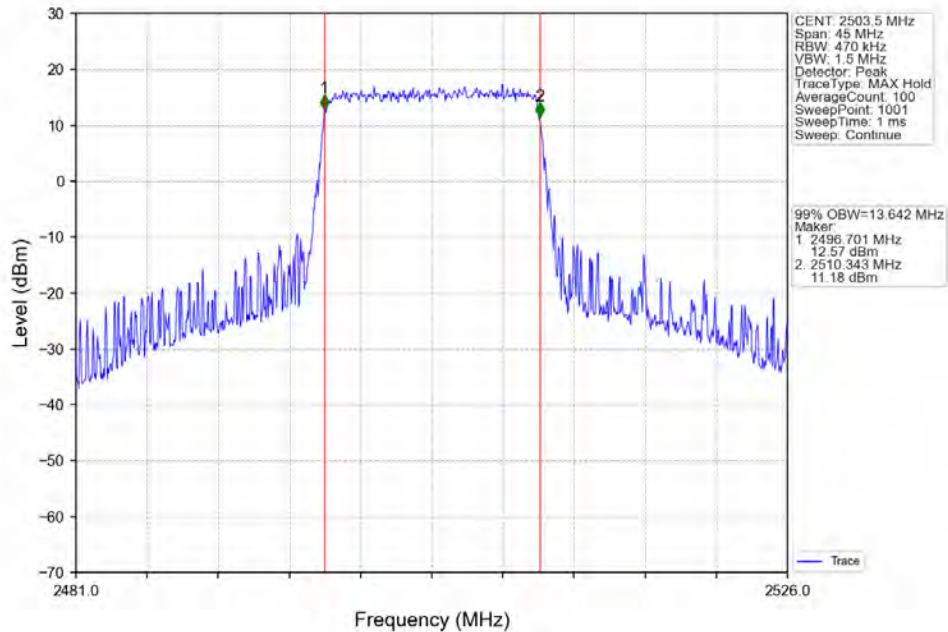
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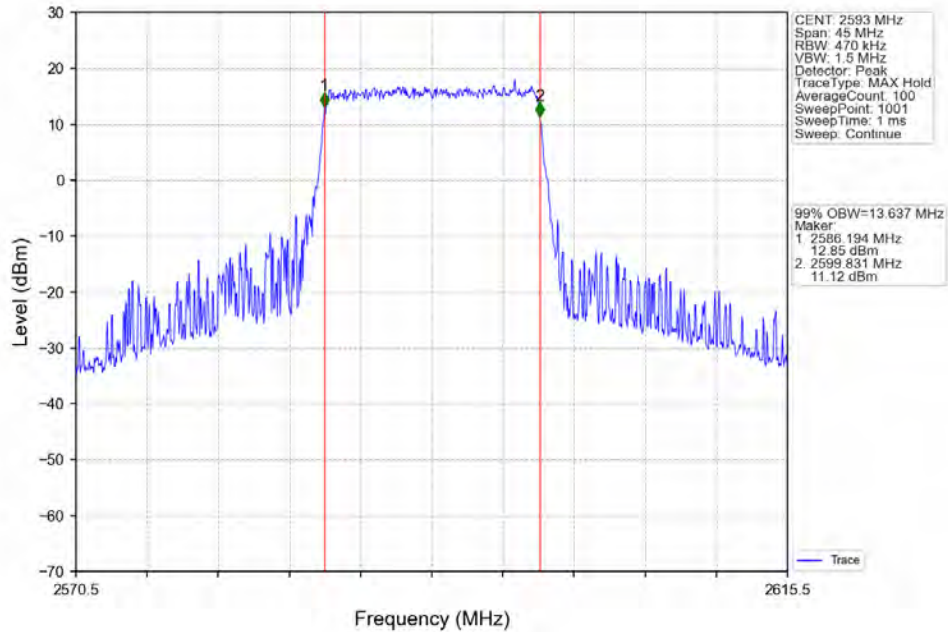
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Band41_15MHz_16QAM_HCH_2682.5MHz_RB_75_0_NTNV



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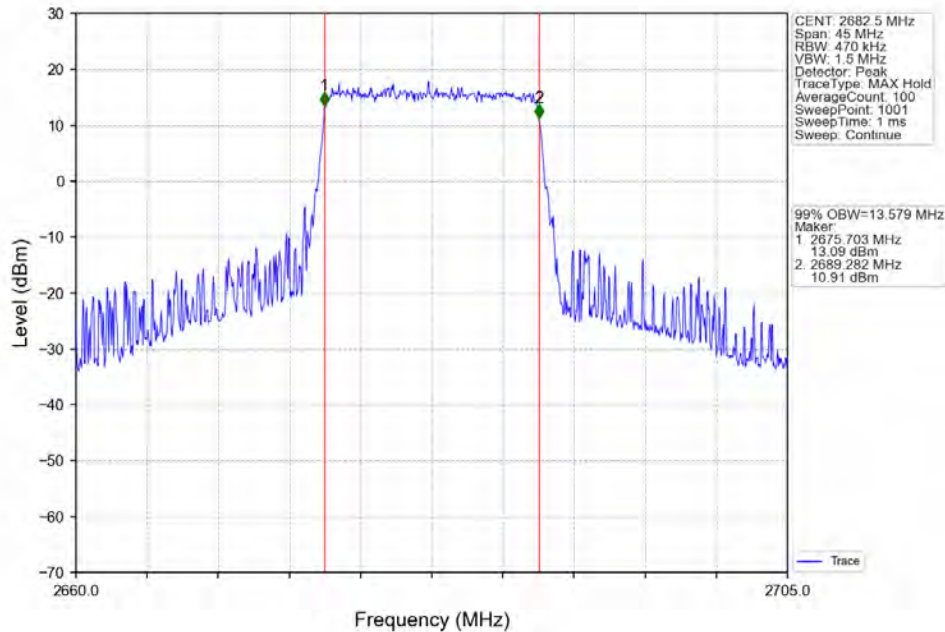
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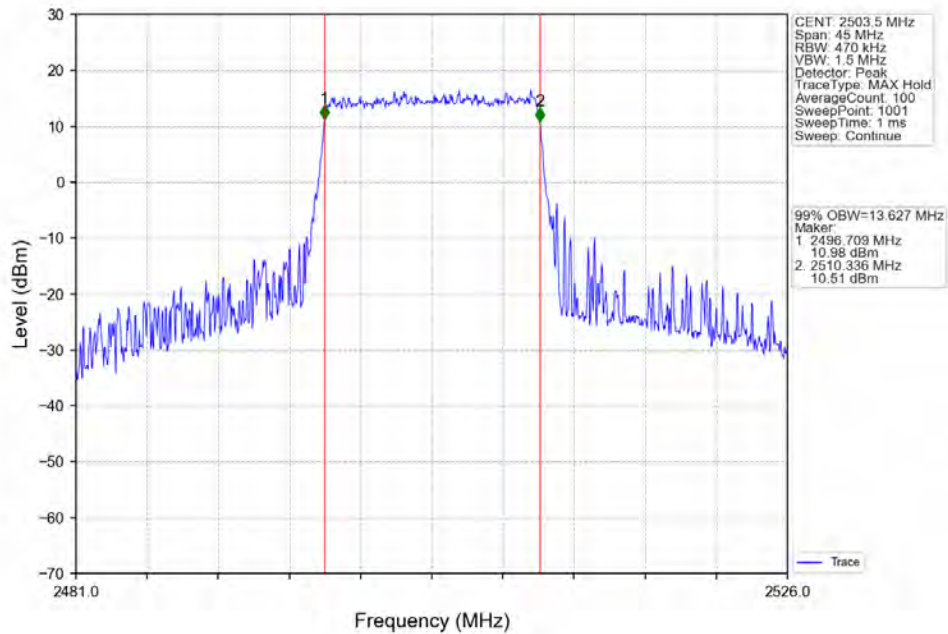
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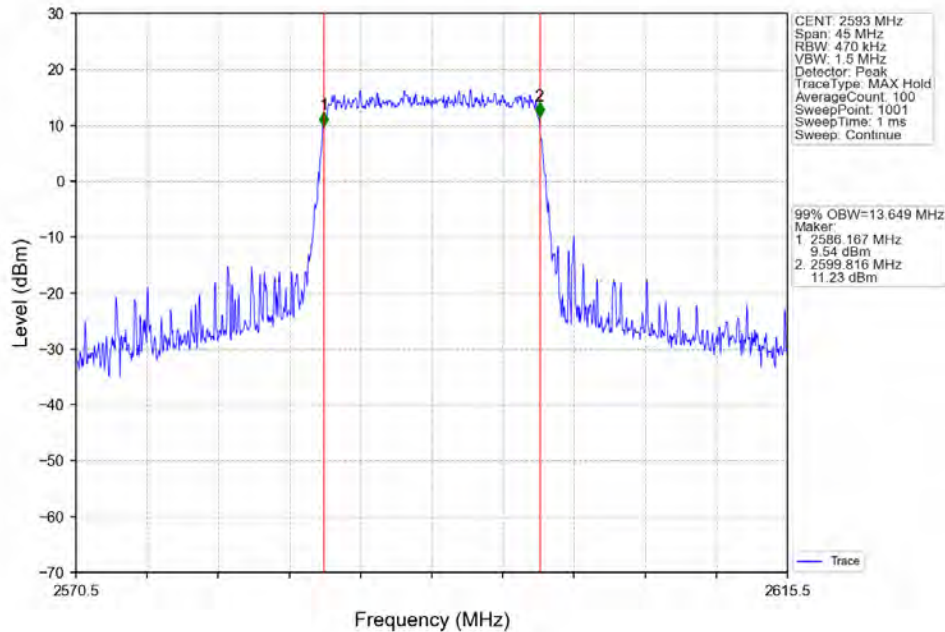
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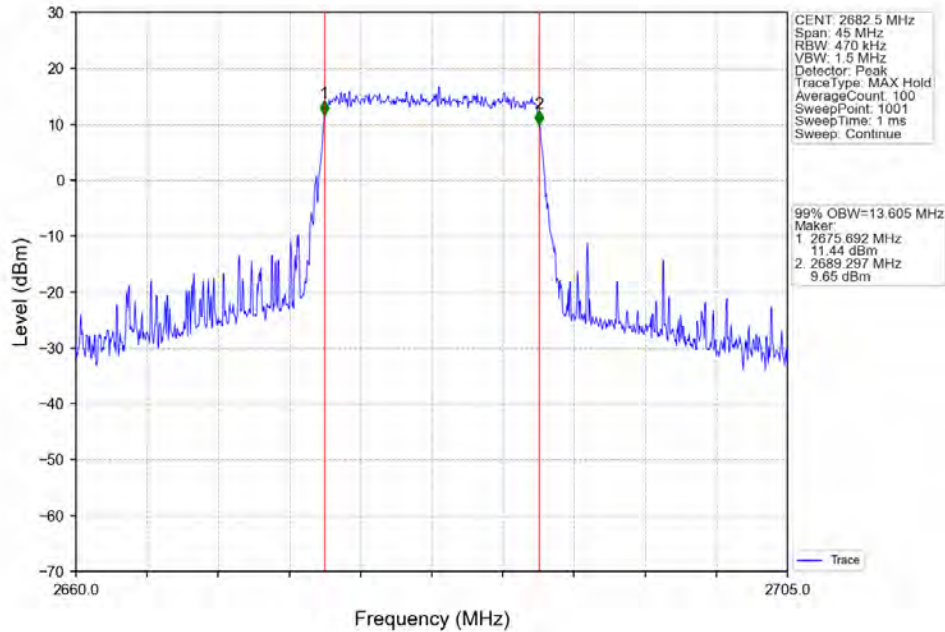
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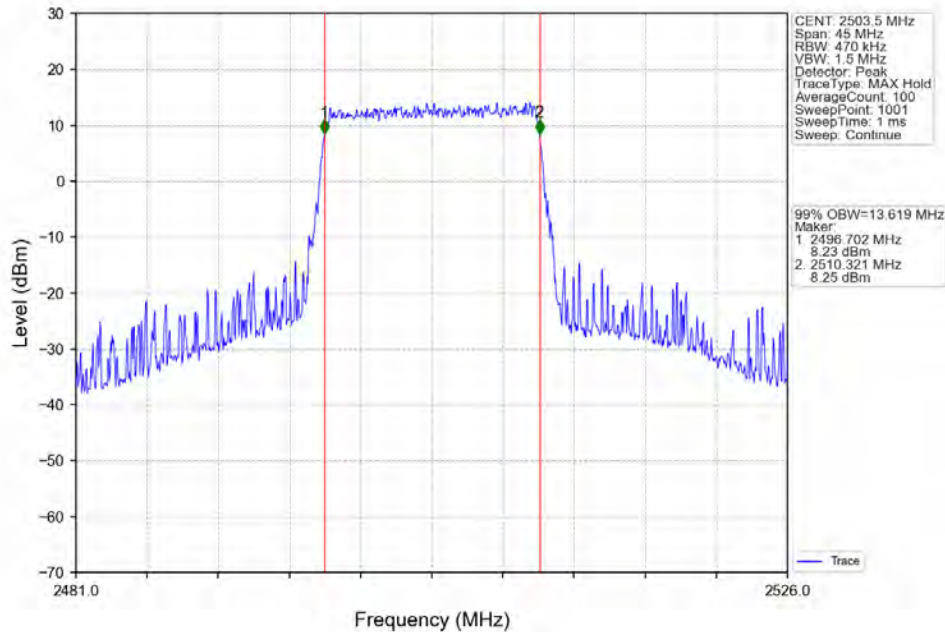
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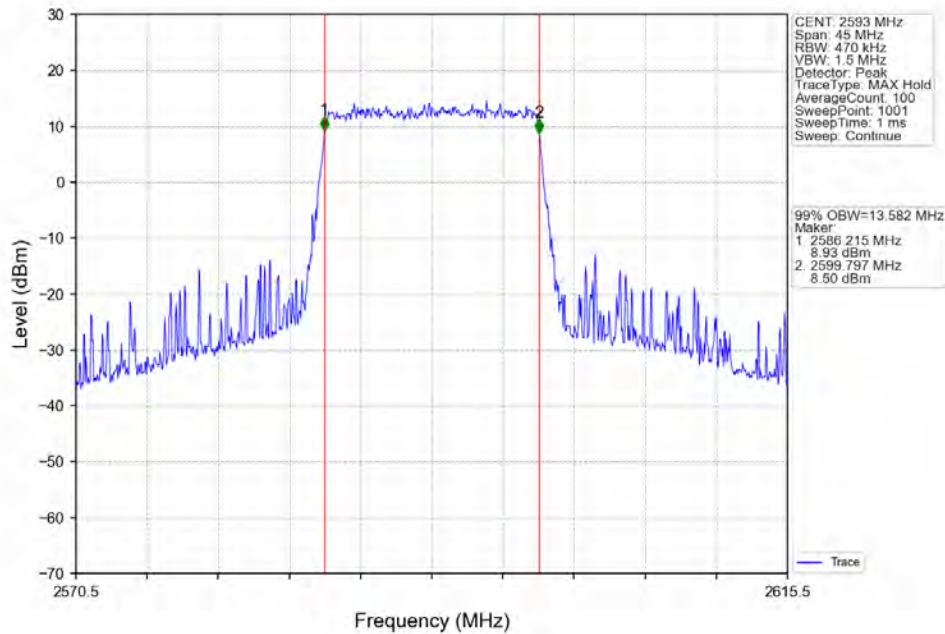
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Band41_15MHz_256QAM_MCH_2593MHz_RB_75_0_NTNV



Band41_15MHz_256QAM_HCH_2682.5MHz_RB_75_0_NTNV



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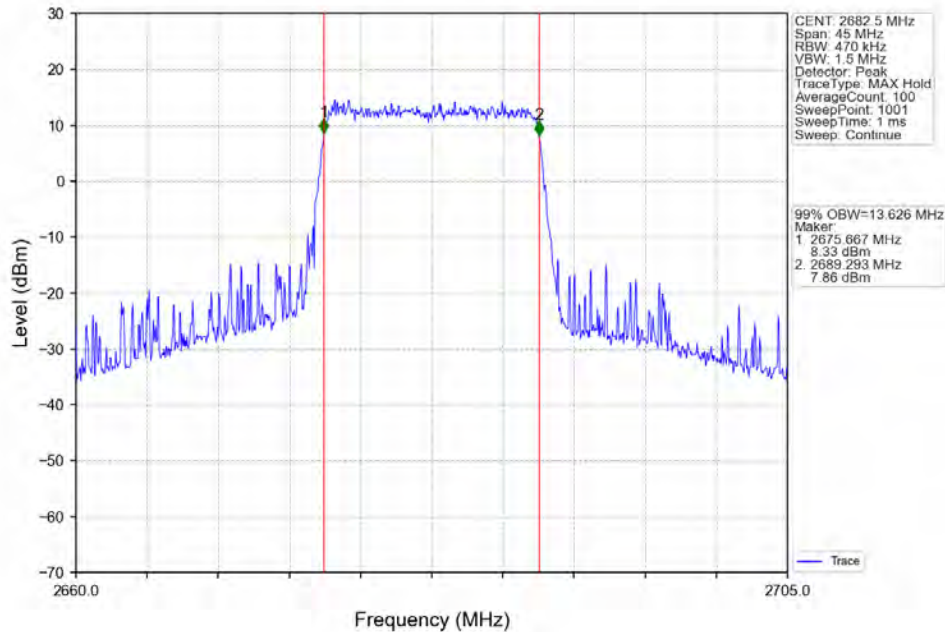
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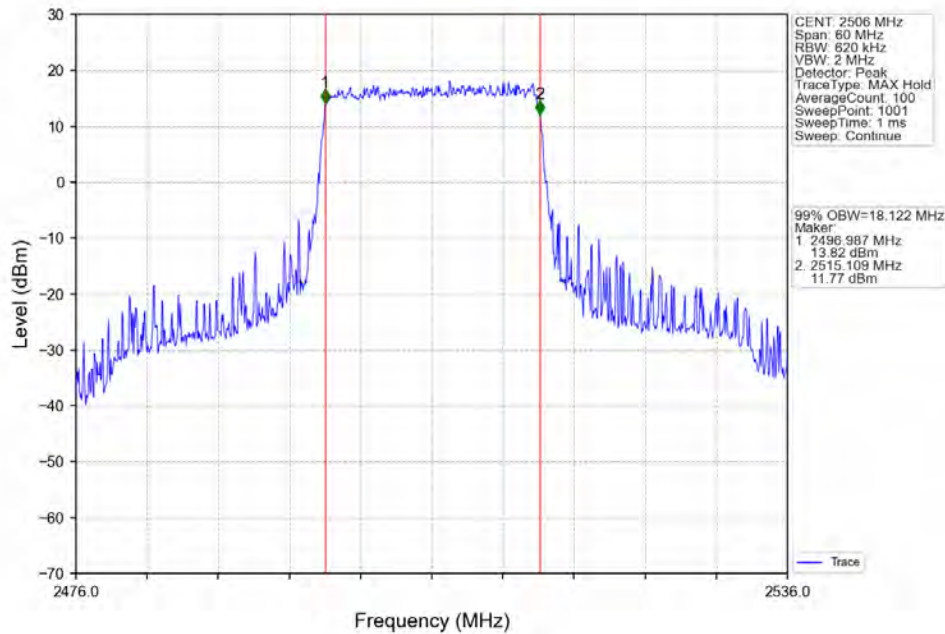
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Band41 20MHz QPSK LCH 2506MHz RB 100 0 NTN



Band41 20MHz QPSK MCH 2593MHz RB 100 0 NTN



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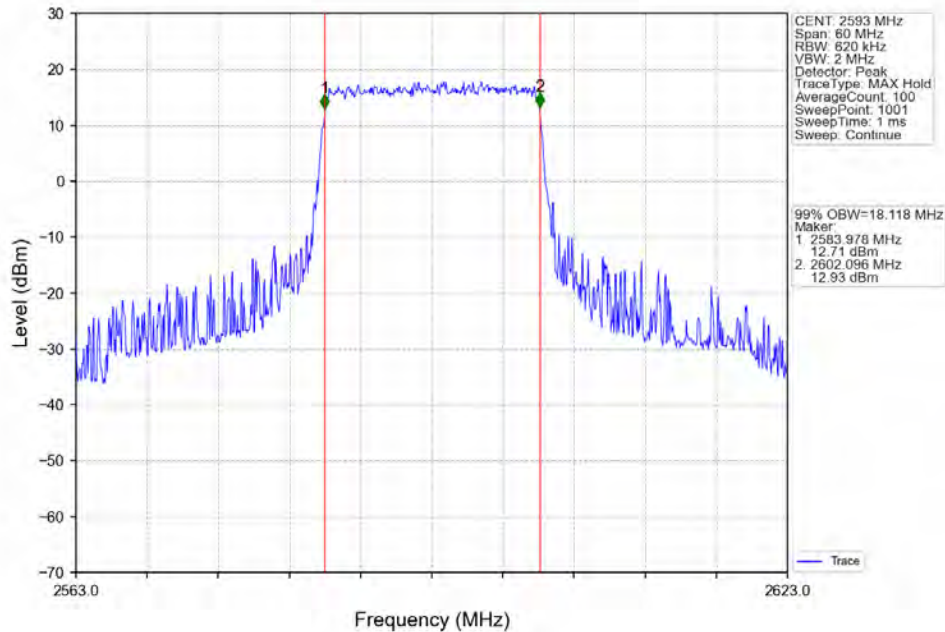
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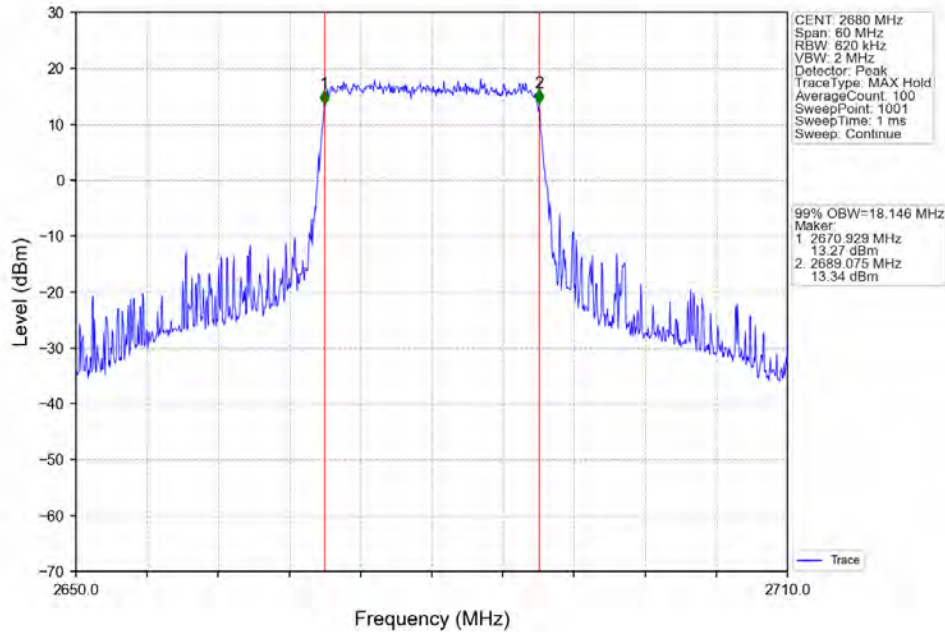
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Band41 20MHz QPSK HCH 2680MHz RB 100 0 NTN



Band41 20MHz 16QAM LCH 2506MHz RB 100 0 NTN



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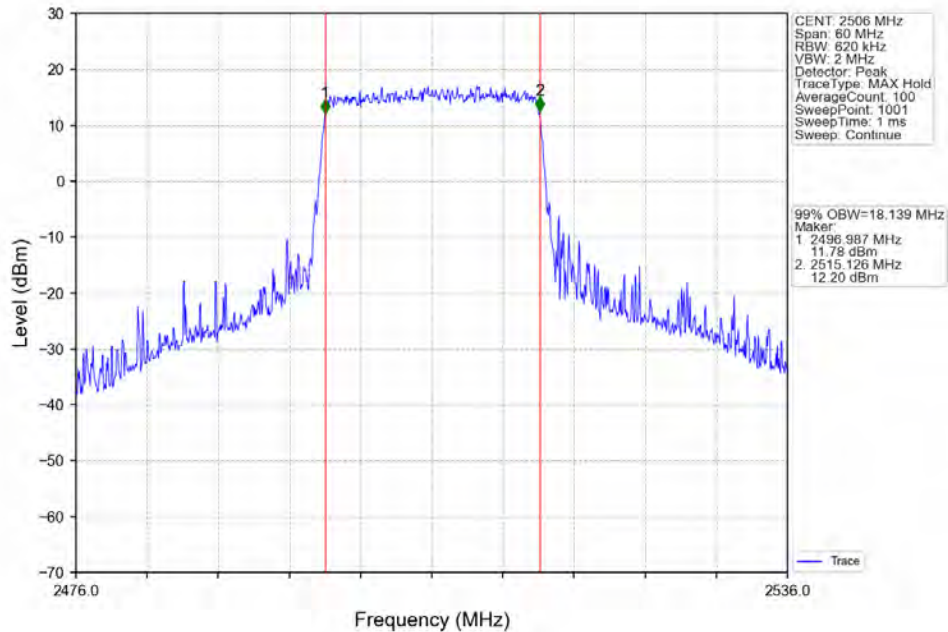
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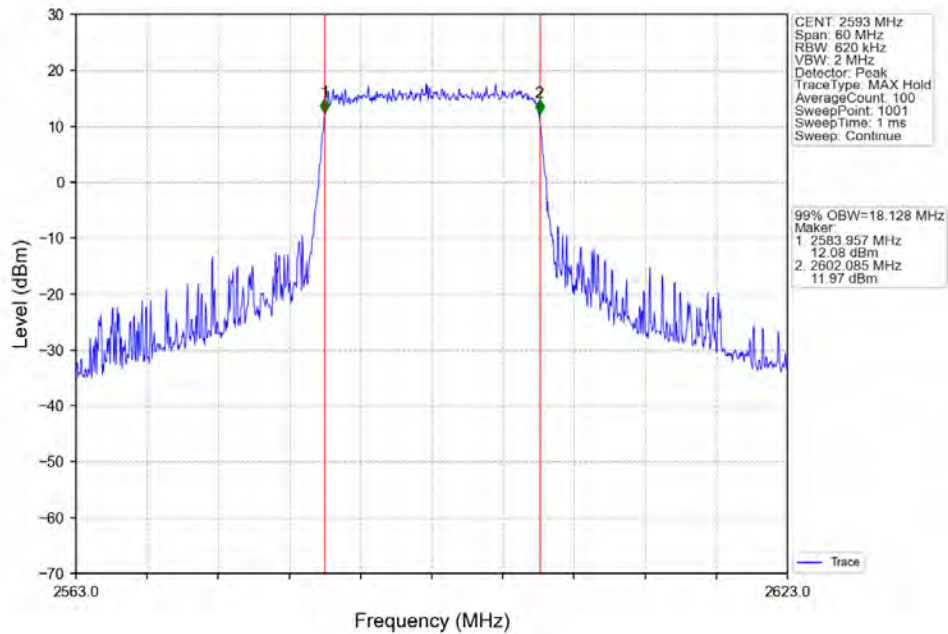
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Band41_20MHz_16QAM_HCH_2680MHz_RB_100_0_NTNV



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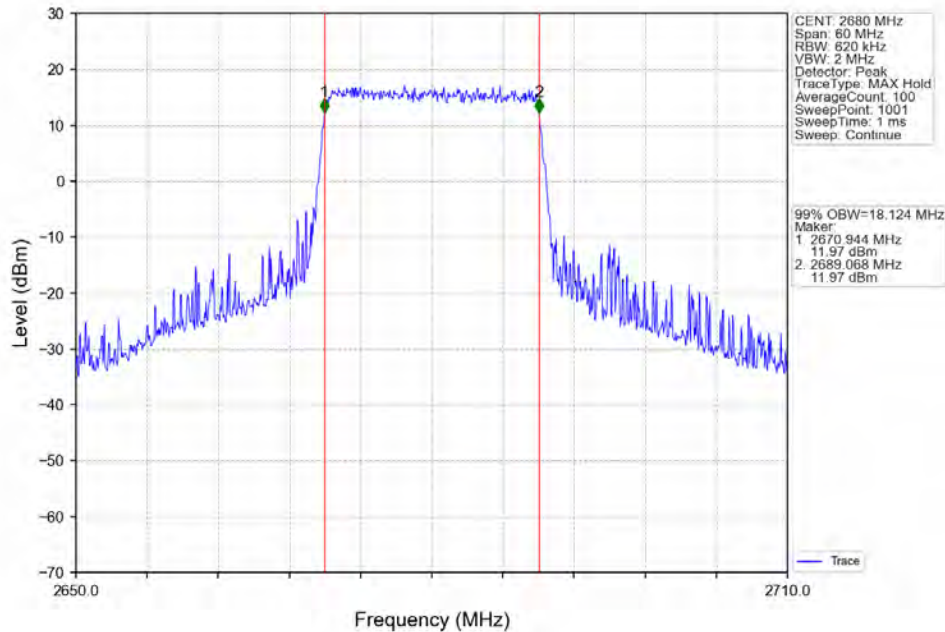
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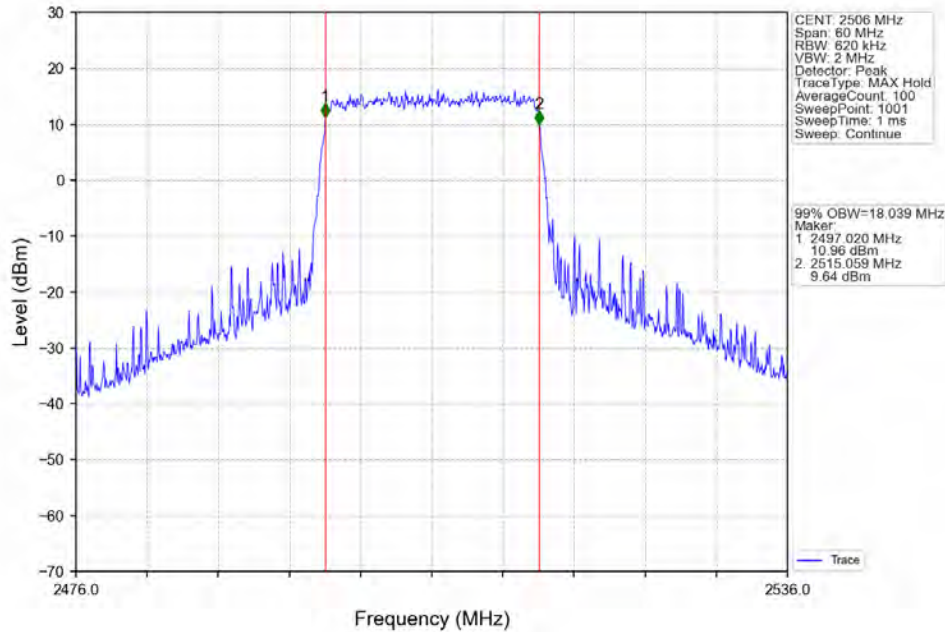
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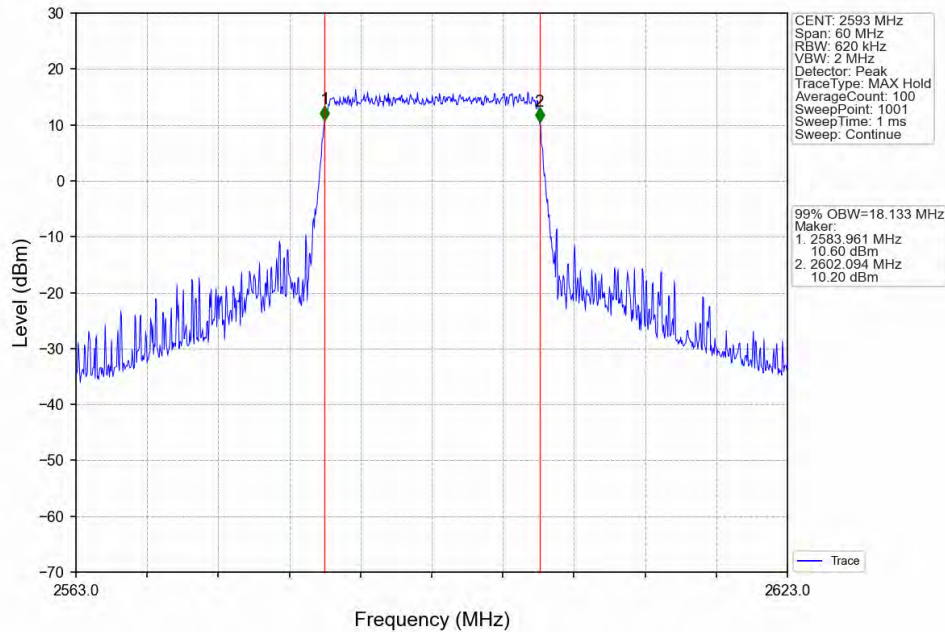
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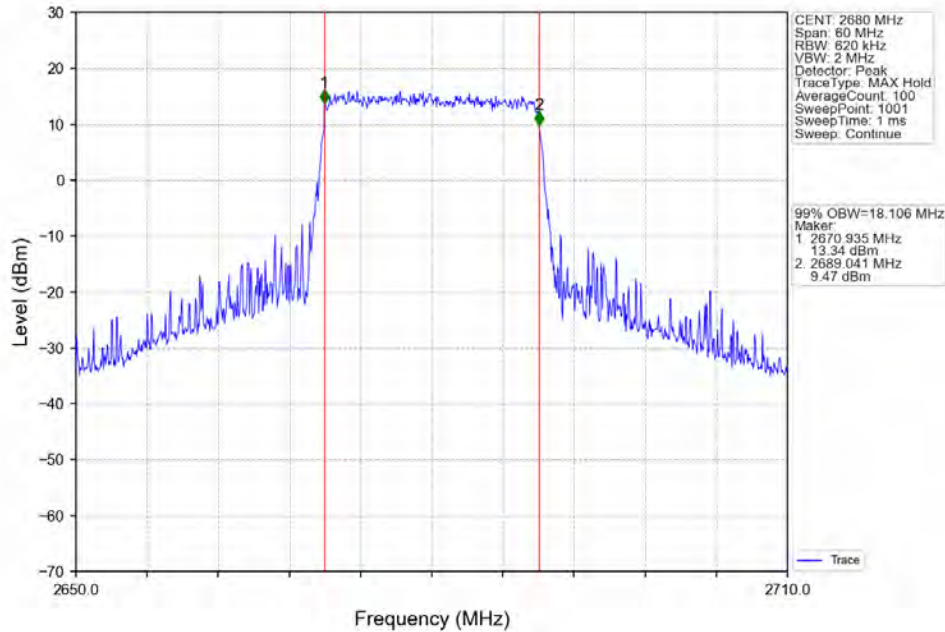
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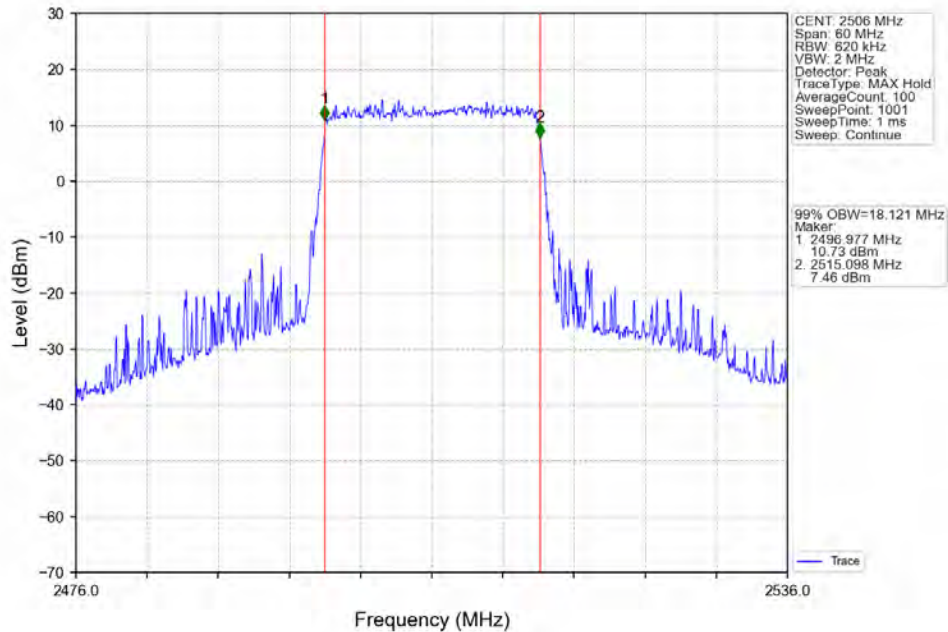
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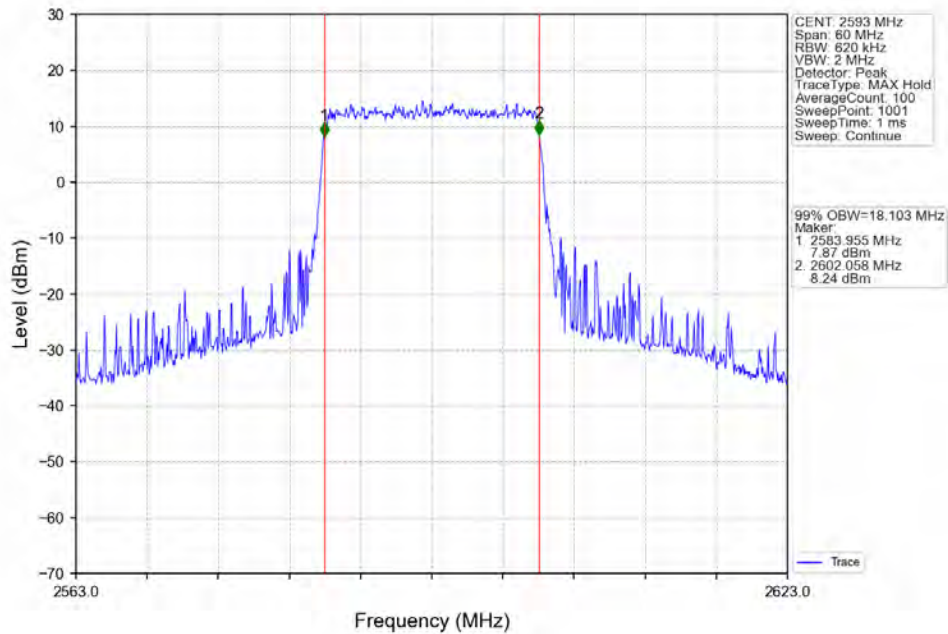
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Band41 20MHz 256QAM MCH 2593MHz RB 100 0 NTN



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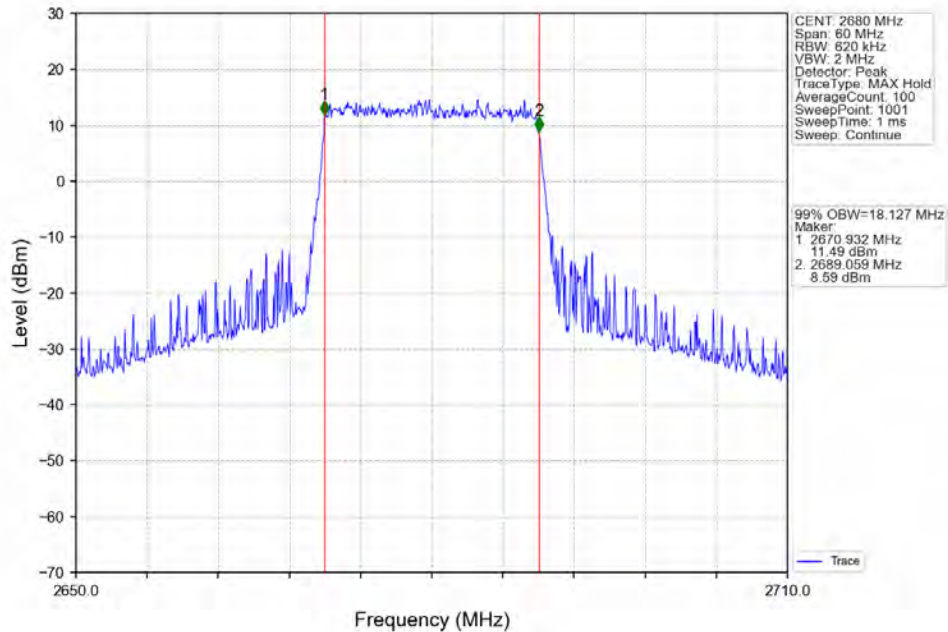
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4.2 Band41_XDB

4.2.1 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	5.565	/	Pass
		2593	25	0	5.406	/	Pass
		2687.5	25	0	5.356	/	Pass
	16QAM	2498.5	25	0	5.206	/	Pass
		2593	25	0	5.585	/	Pass
		2687.5	25	0	5.415	/	Pass
	64QAM	2498.5	25	0	5.205	/	Pass
		2593	25	0	5.487	/	Pass
		2687.5	25	0	5.799	/	Pass
	256QAM	2498.5	25	0	5.252	/	Pass
		2593	25	0	5.241	/	Pass
		2687.5	25	0	5.280	/	Pass
10	QPSK	2501	50	0	10.279	/	Pass
		2593	50	0	10.160	/	Pass
		2685	50	0	10.240	/	Pass
	16QAM	2501	50	0	10.647	/	Pass
		2593	50	0	11.069	/	Pass
		2685	50	0	10.519	/	Pass
	64QAM	2501	50	0	10.272	/	Pass
		2593	50	0	10.292	/	Pass
		2685	50	0	10.406	/	Pass
	256QAM	2501	50	0	10.281	/	Pass
		2593	50	0	10.241	/	Pass
		2685	50	0	10.251	/	Pass
15	QPSK	2503.5	75	0	15.369	/	Pass
		2593	75	0	15.840	/	Pass
		2682.5	75	0	15.360	/	Pass
	16QAM	2503.5	75	0	15.323	/	Pass
		2593	75	0	16.609	/	Pass
		2682.5	75	0	15.811	/	Pass
	64QAM	2503.5	75	0	16.077	/	Pass
		2593	75	0	15.041	/	Pass
		2682.5	75	0	15.210	/	Pass
	256QAM	2503.5	75	0	15.486	/	Pass
		2593	75	0	15.219	/	Pass
		2682.5	75	0	15.442	/	Pass
20	QPSK	2506	100	0	23.661	/	Pass
		2593	100	0	20.318	/	Pass
		2680	100	0	20.987	/	Pass



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	16QAM	2506	100	0	20.755	/	Pass
		2593	100	0	20.626	/	Pass
		2680	100	0	21.376	/	Pass
	64QAM	2506	100	0	20.238	/	Pass
		2593	100	0	20.630	/	Pass
		2680	100	0	24.080	/	Pass
	256QAM	2506	100	0	20.492	/	Pass
		2593	100	0	20.866	/	Pass
		2680	100	0	20.433	/	Pass



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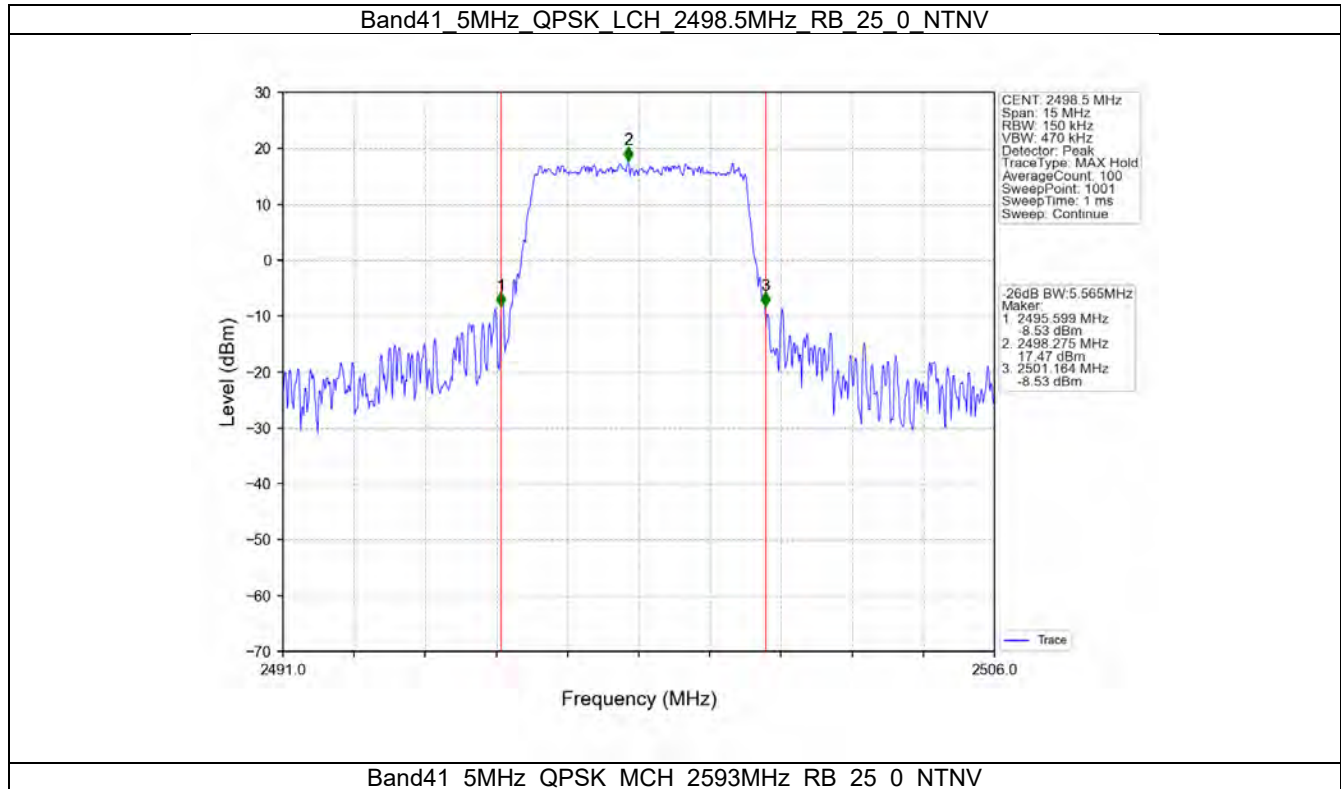
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4.2.2 Test Graph



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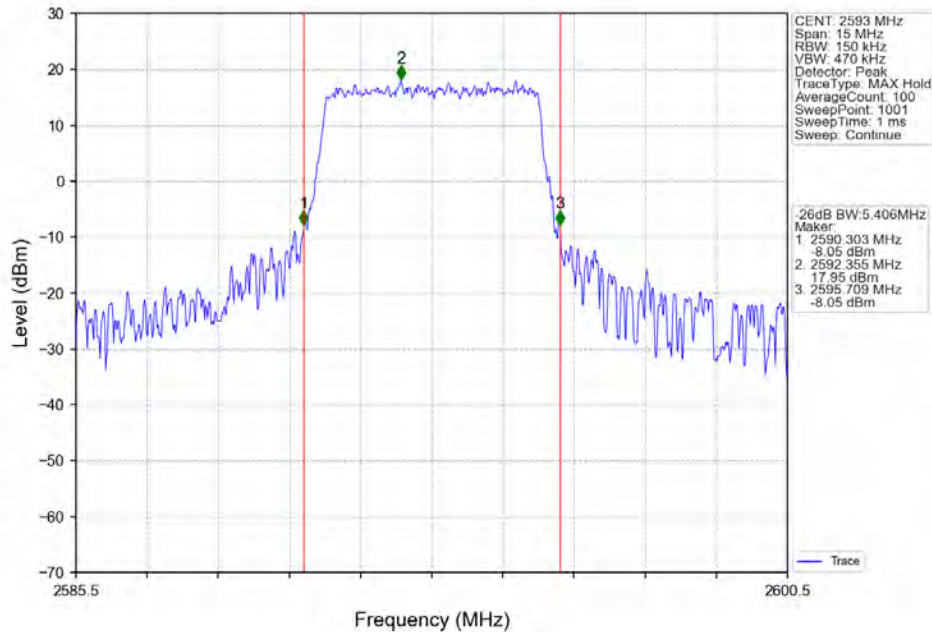
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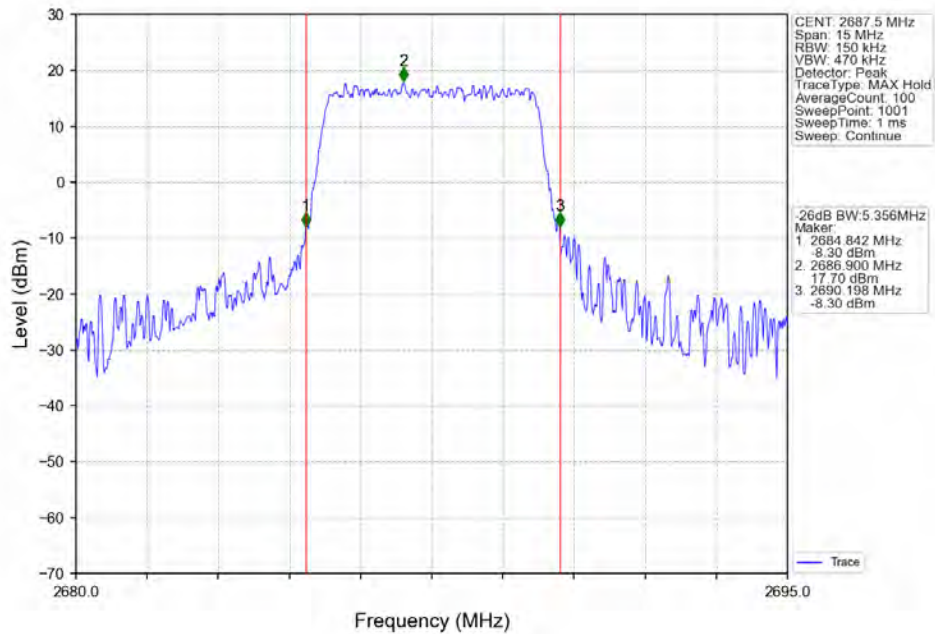
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Band41_5MHz_QPSK_HCH_2687.5MHz_RB_25_0_NTNV



Band41_5MHz_16QAM_LCH_2498.5MHz_RB_25_0_NTNV



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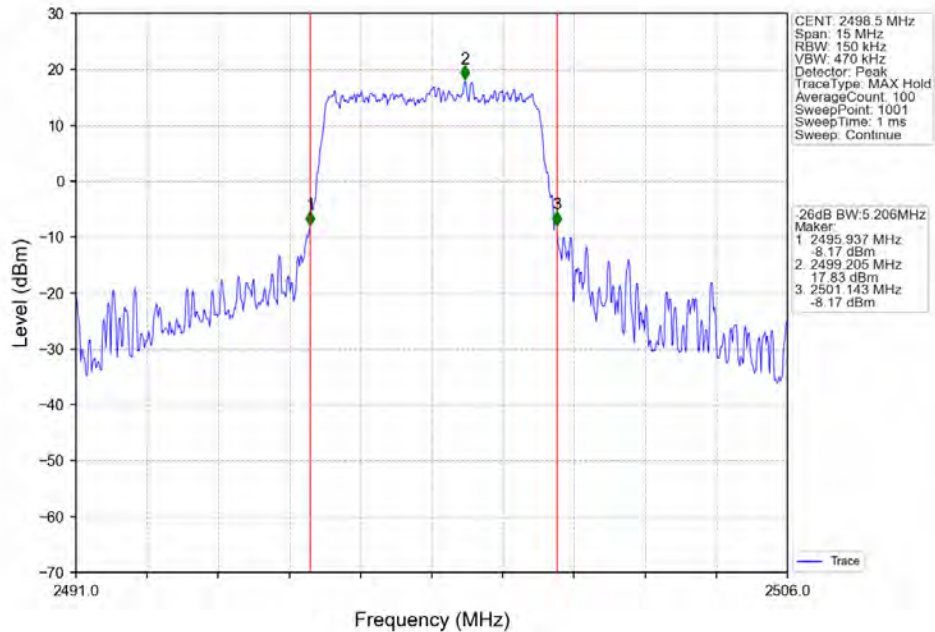
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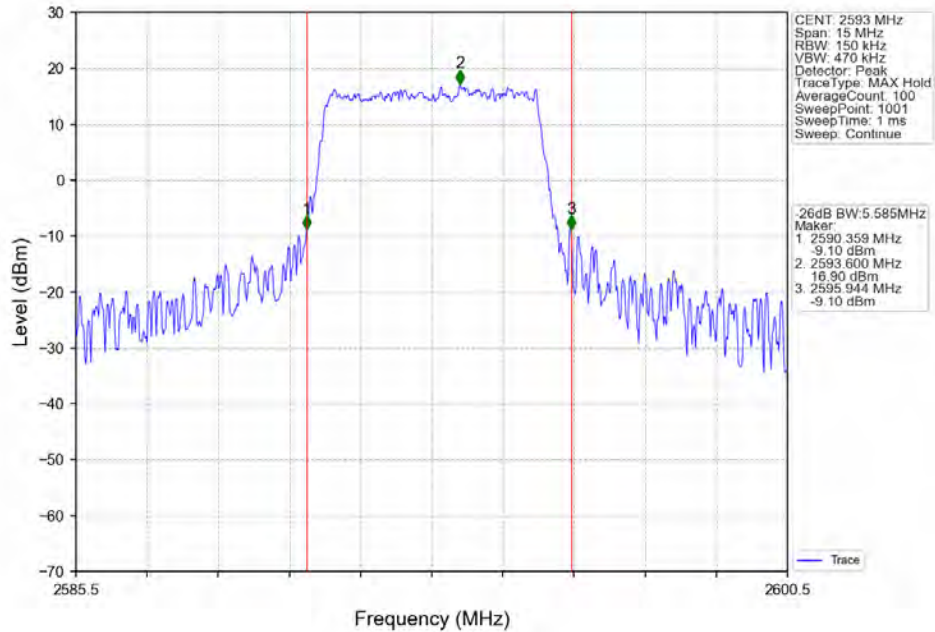
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Band41_5MHz_16QAM_HCH_2687.5MHz_RB_25_0_NTNV



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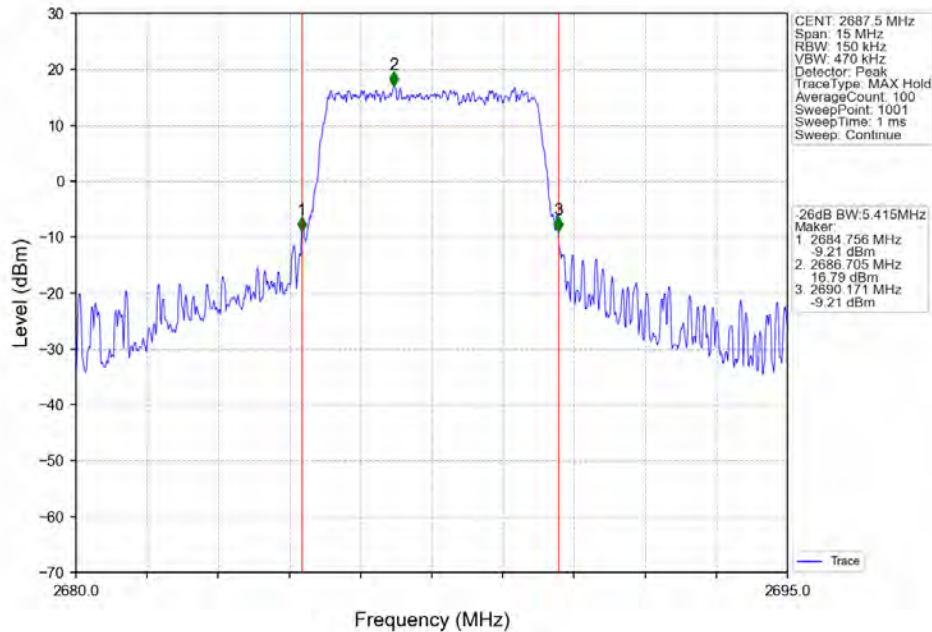
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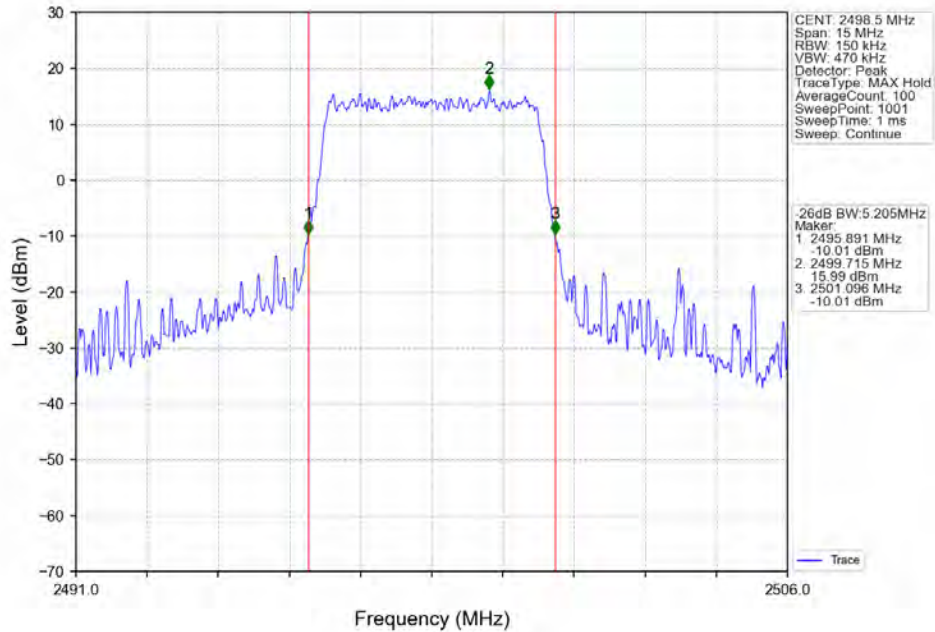
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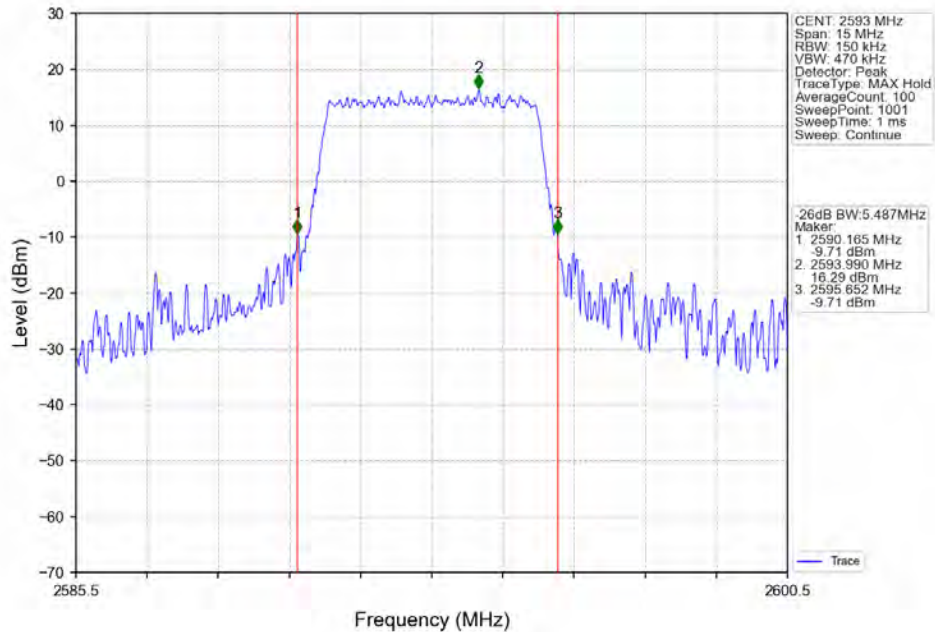
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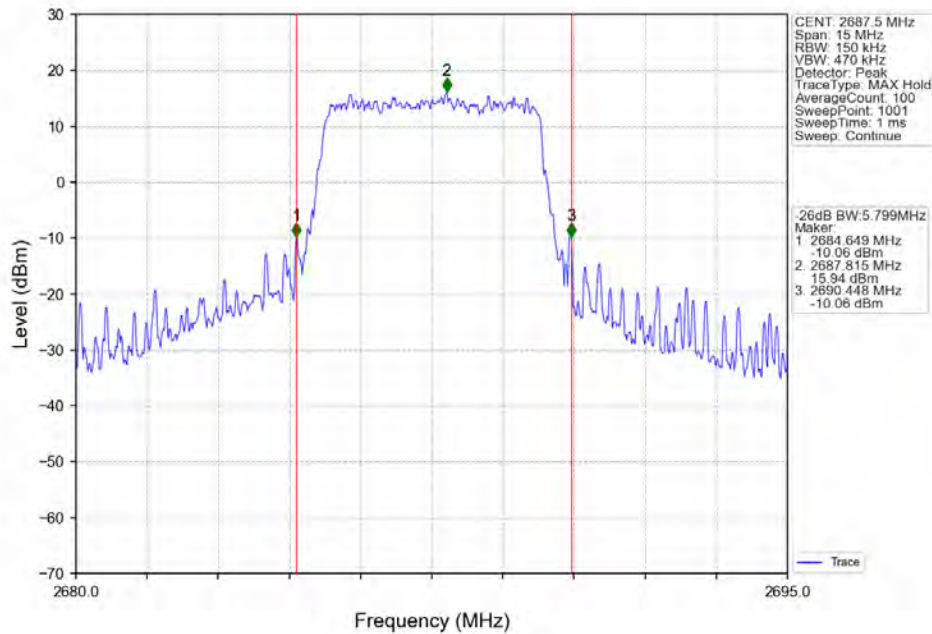
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Band41_5MHz_256QAM_LCH_2498.5MHz_RB_25_0_NTNV



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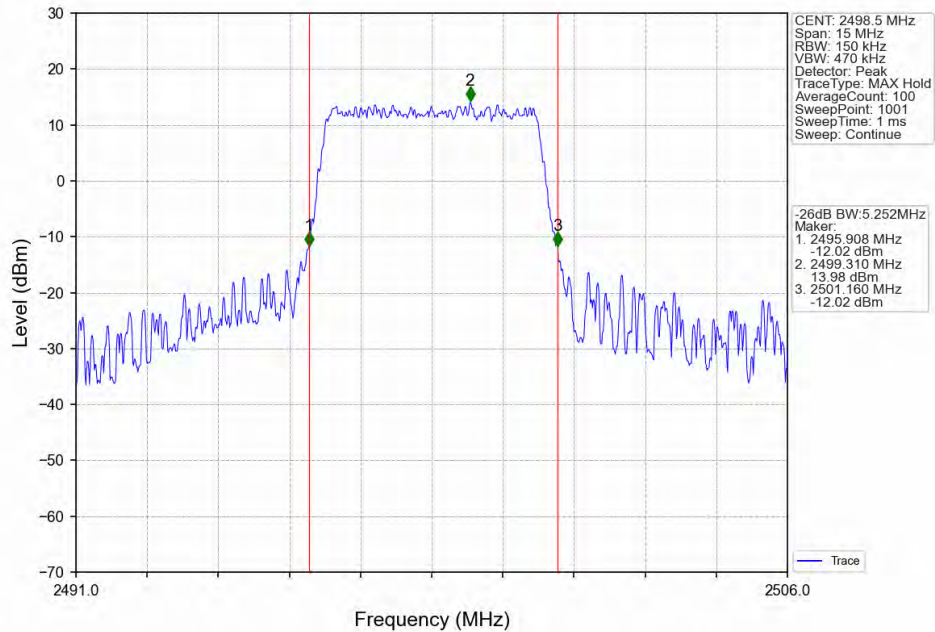
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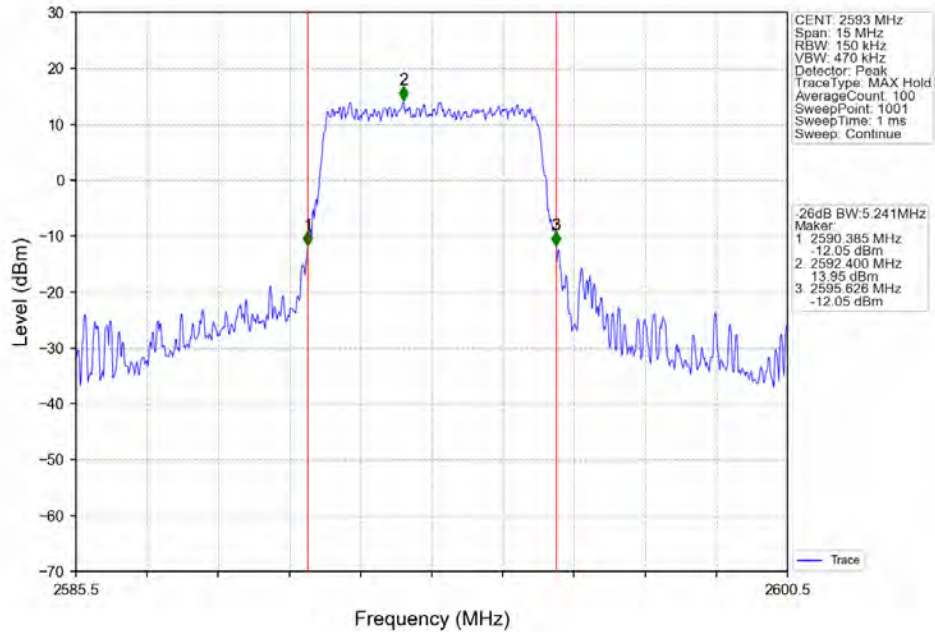
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Band41_5MHz_256QAM_HCH_2687.5MHz_RB_25_0_NTNV



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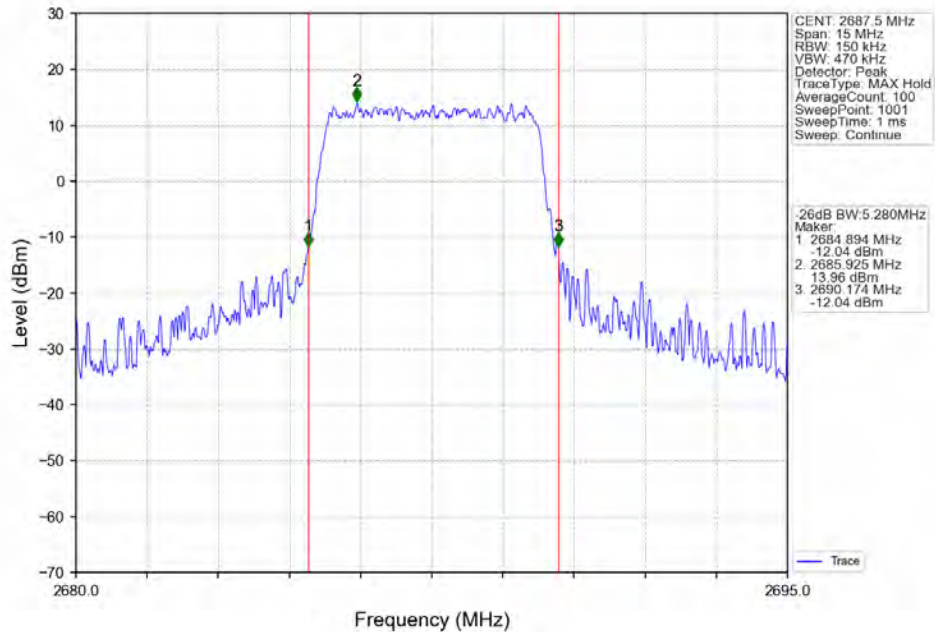
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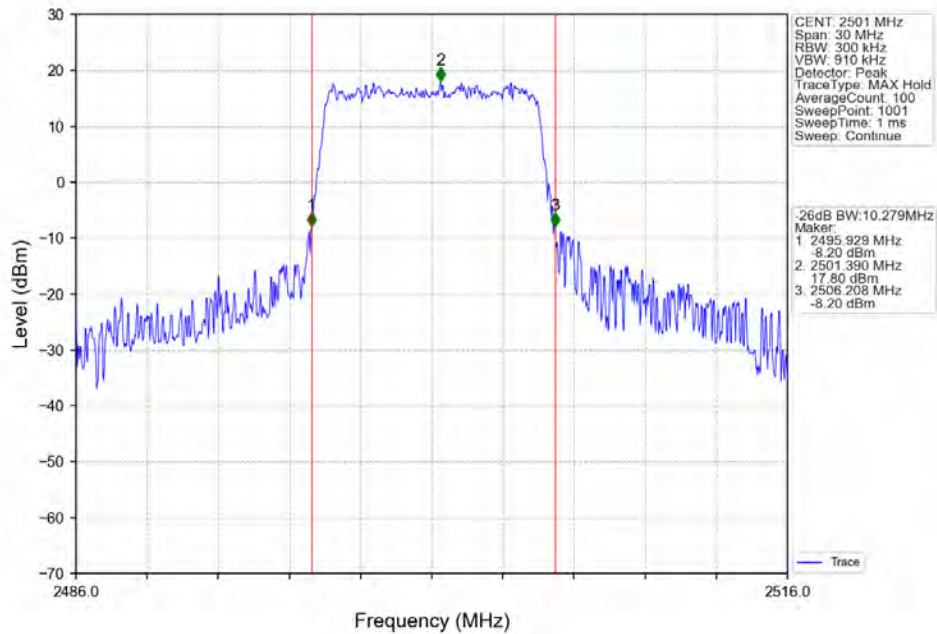
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Band41_10MHz_QPSK_LCH_2501MHz_RB_50_0_NTNV



Band41_10MHz_QPSK_MCH_2593MHz_RB_50_0_NTNV



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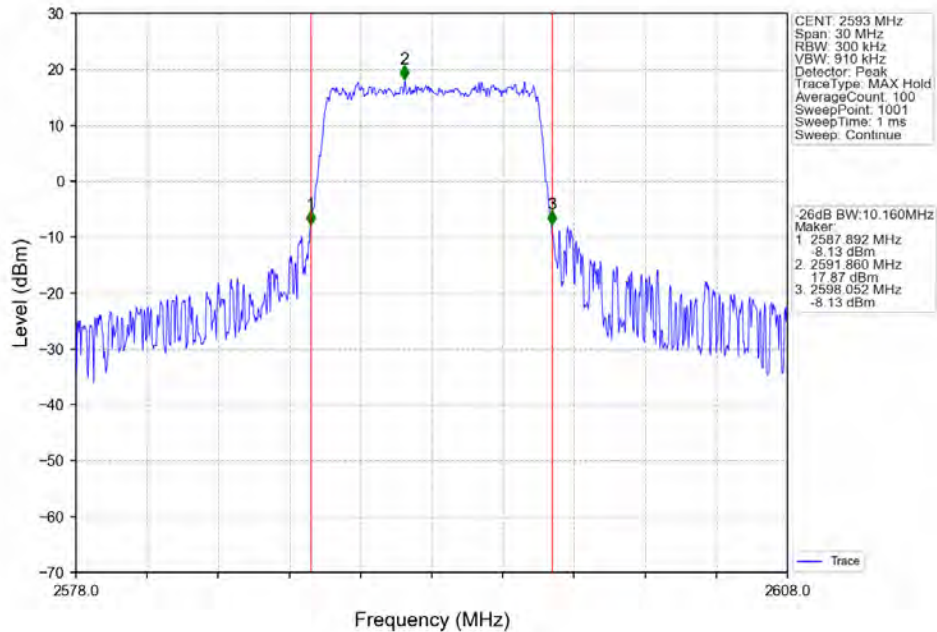
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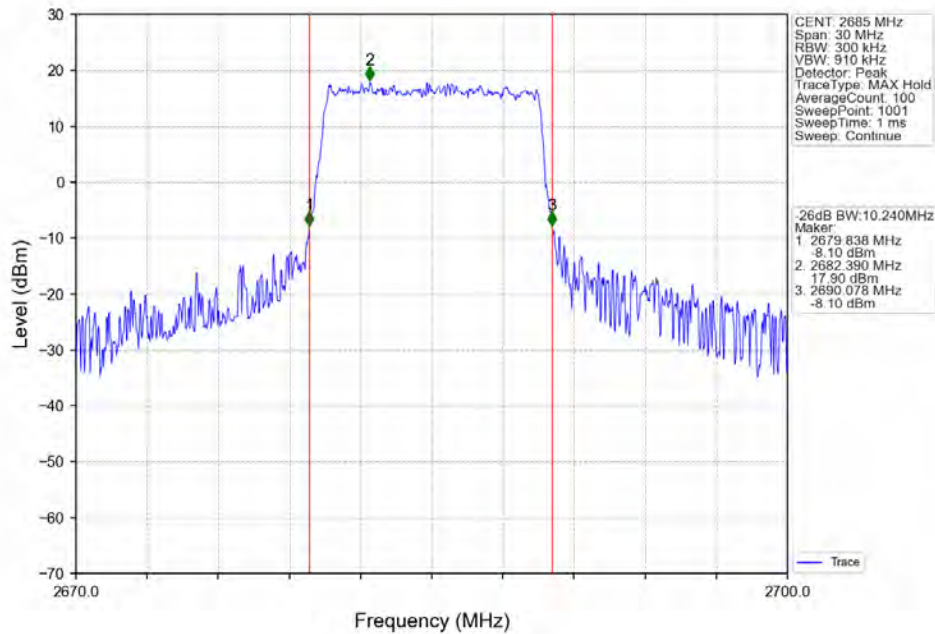
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Band41_10MHz_16QAM_LCH_2501MHz_RB_50_0_NTNV



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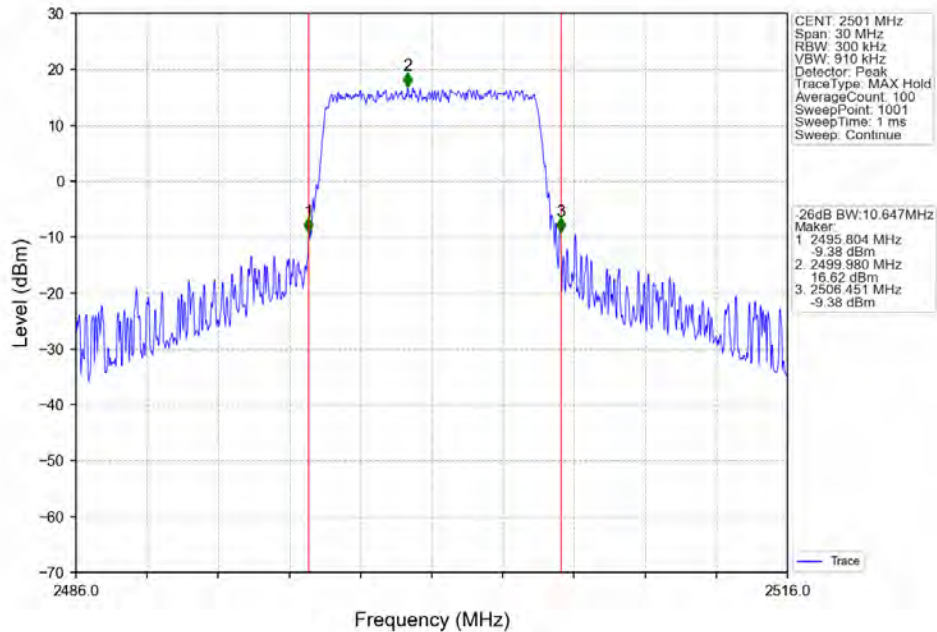
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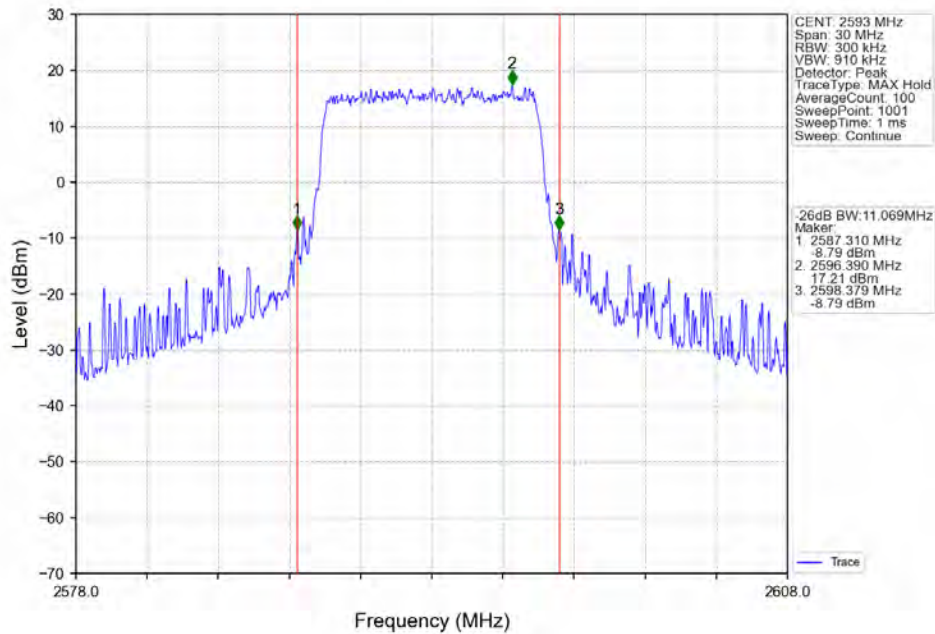
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Band41 10MHz 16QAM MCH 2593MHz RB 50 0 NTN



Band41 10MHz 16QAM HCH 2685MHz RB 50 0 NTN



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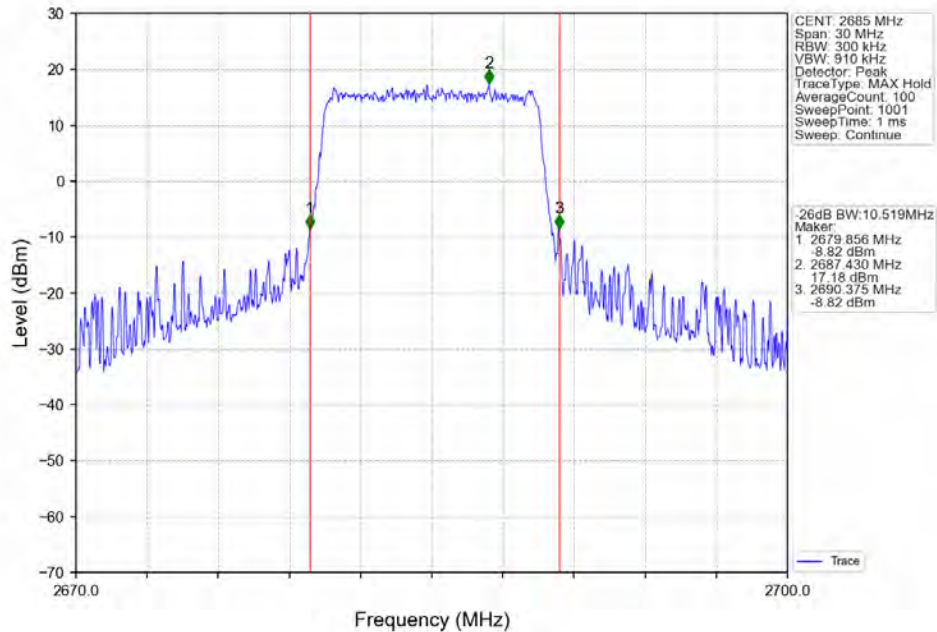
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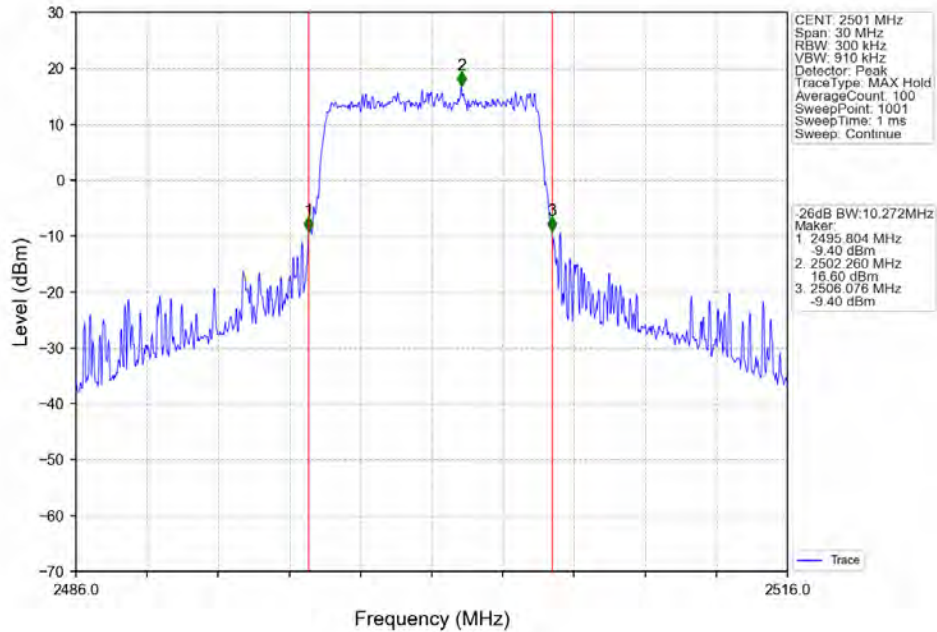
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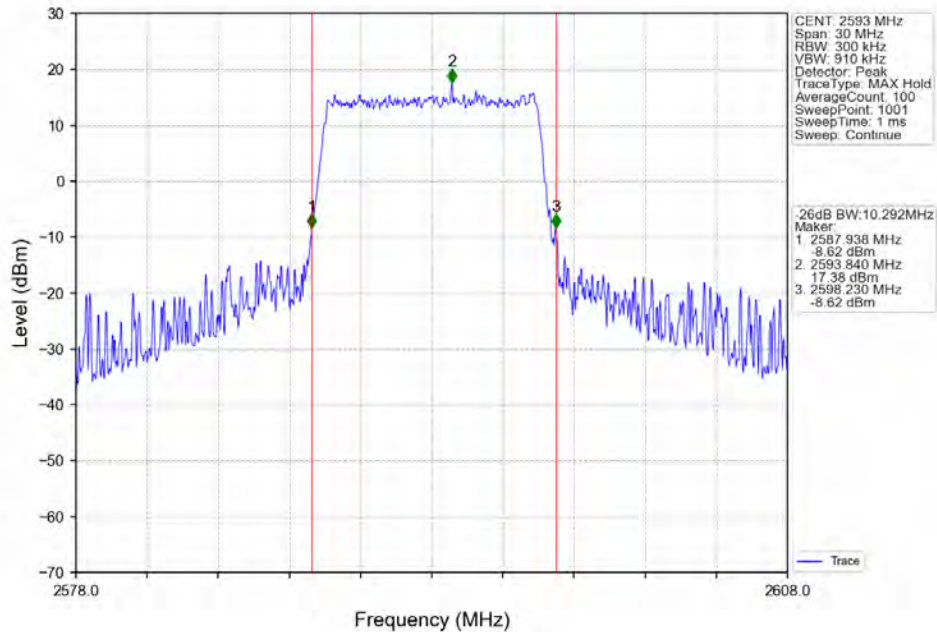
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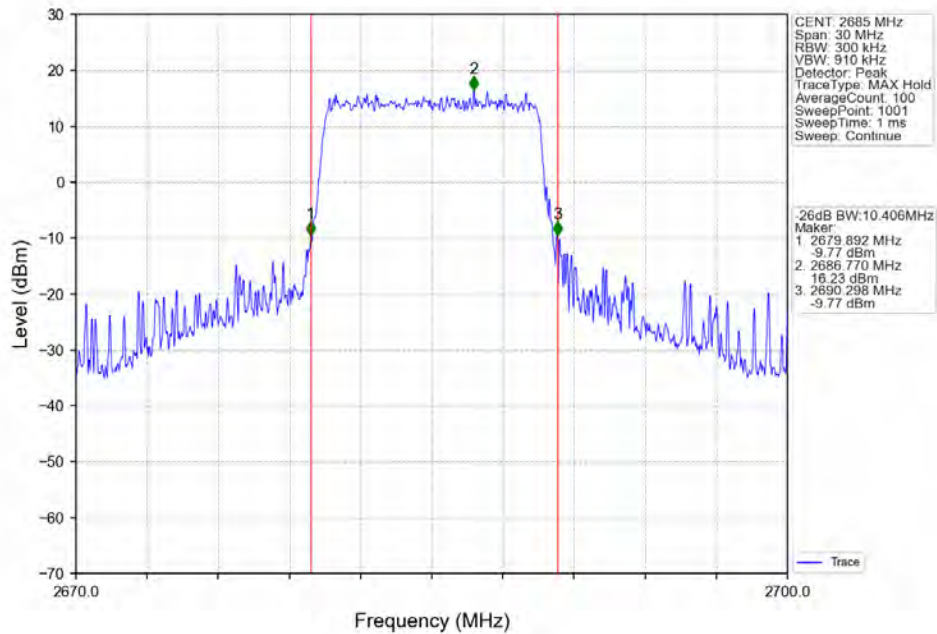
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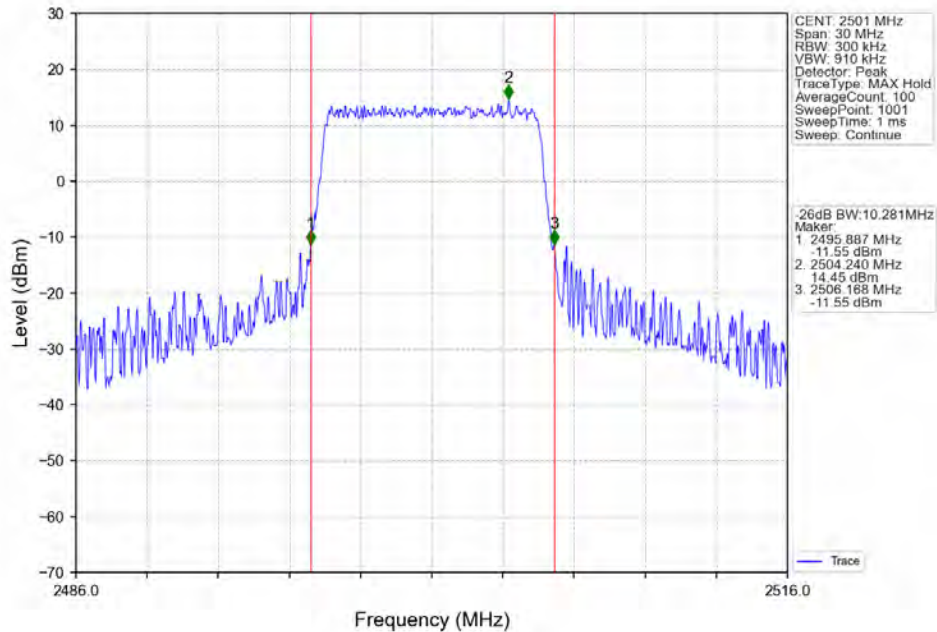
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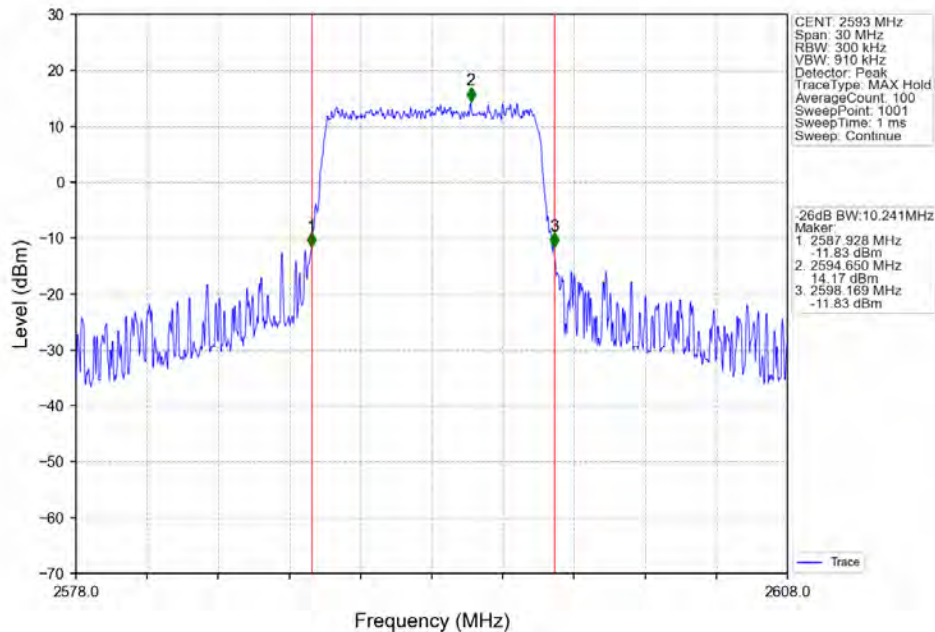
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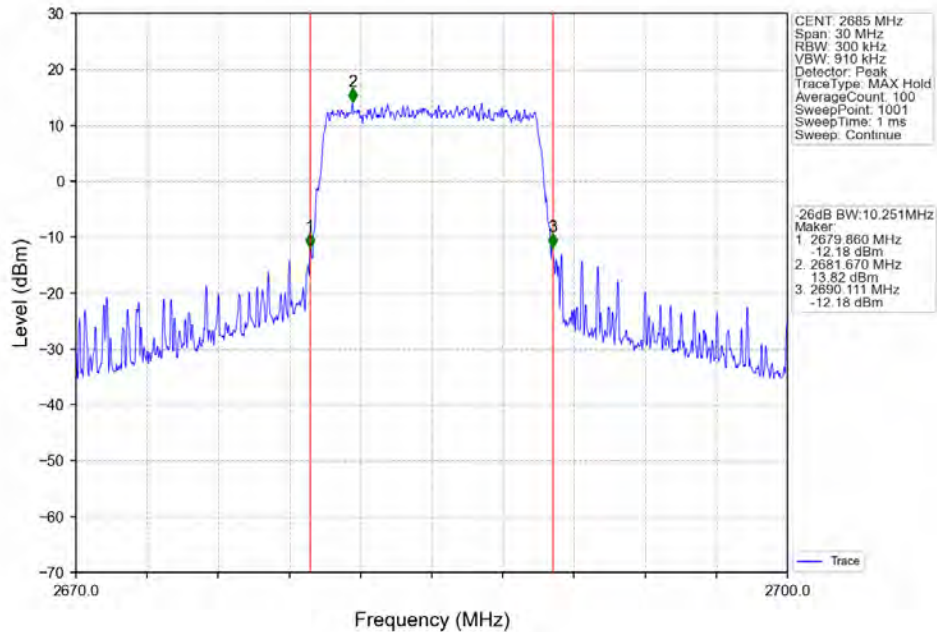
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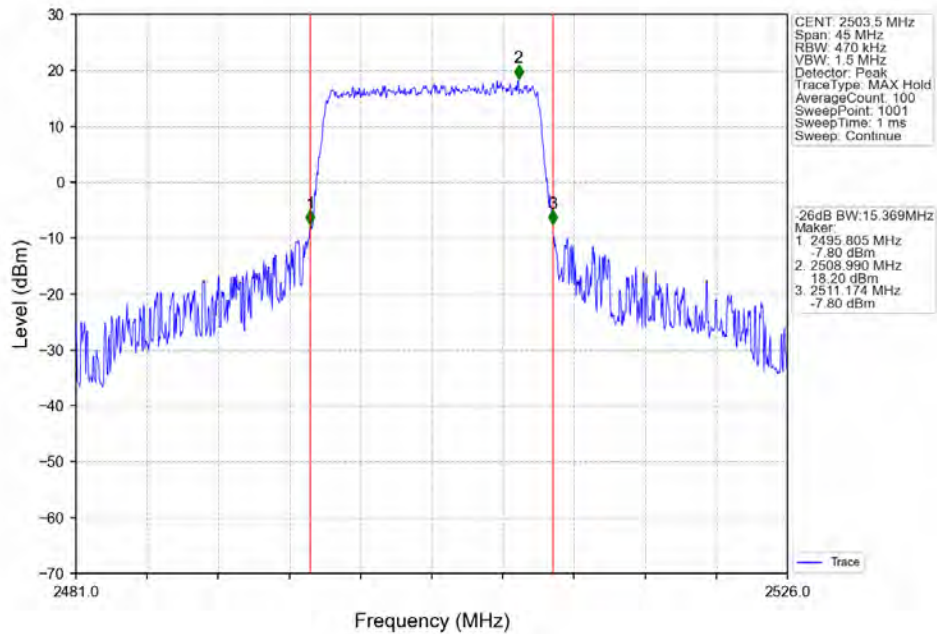
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Band41_15MHz_QPSK_LCH_2503.5MHz_RB_75_0_NTNV



Band41_15MHz_QPSK_MCH_2593MHz_RB_75_0_NTNV



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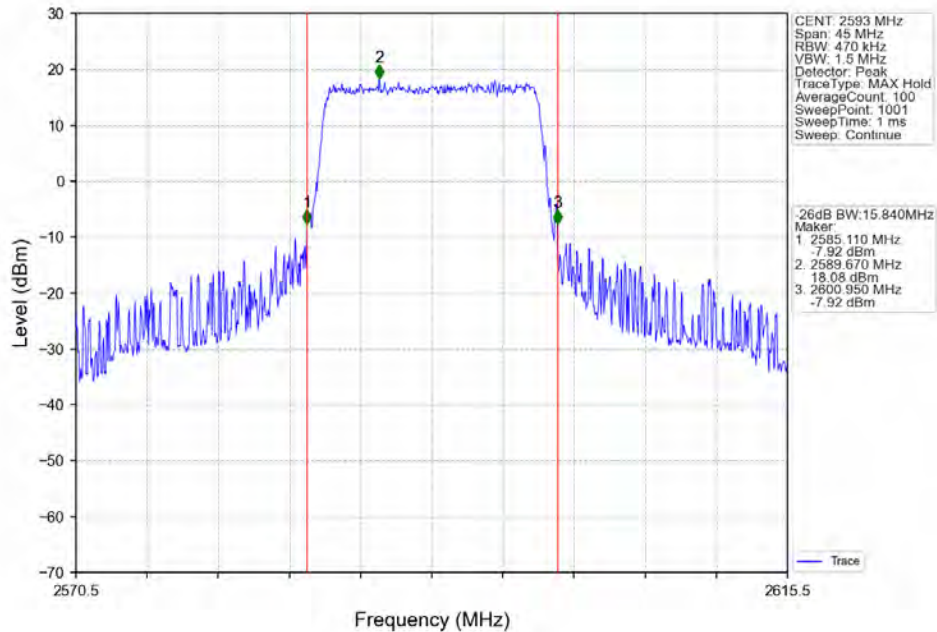
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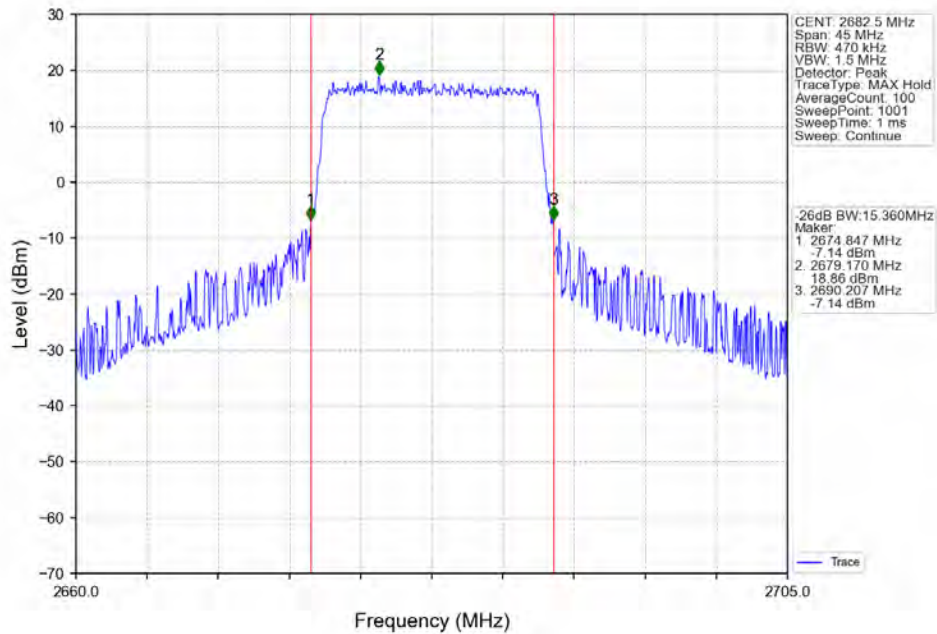
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Band41_15MHz_16QAM_LCH_2503.5MHz_RB_75_0_NTNV



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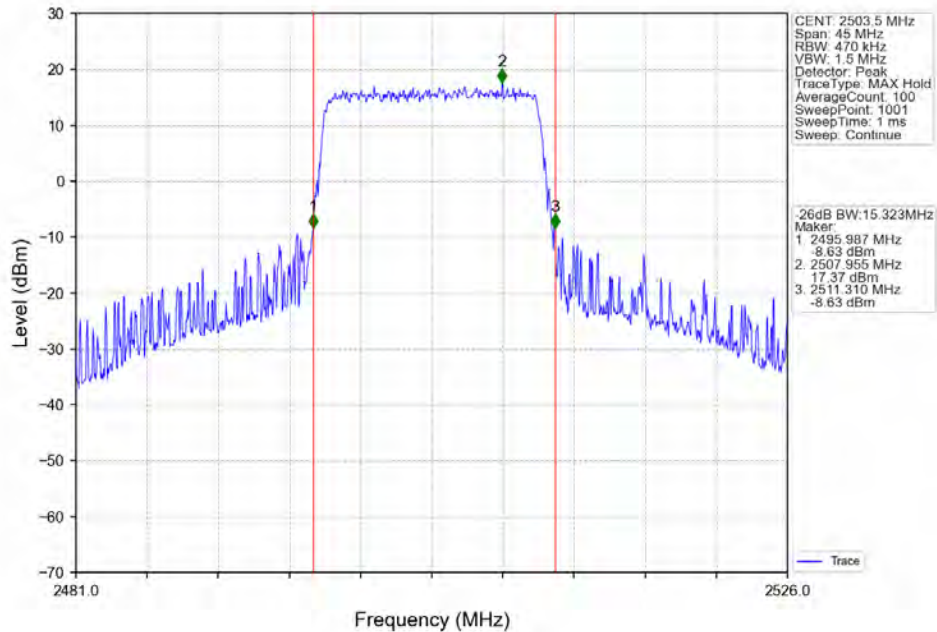
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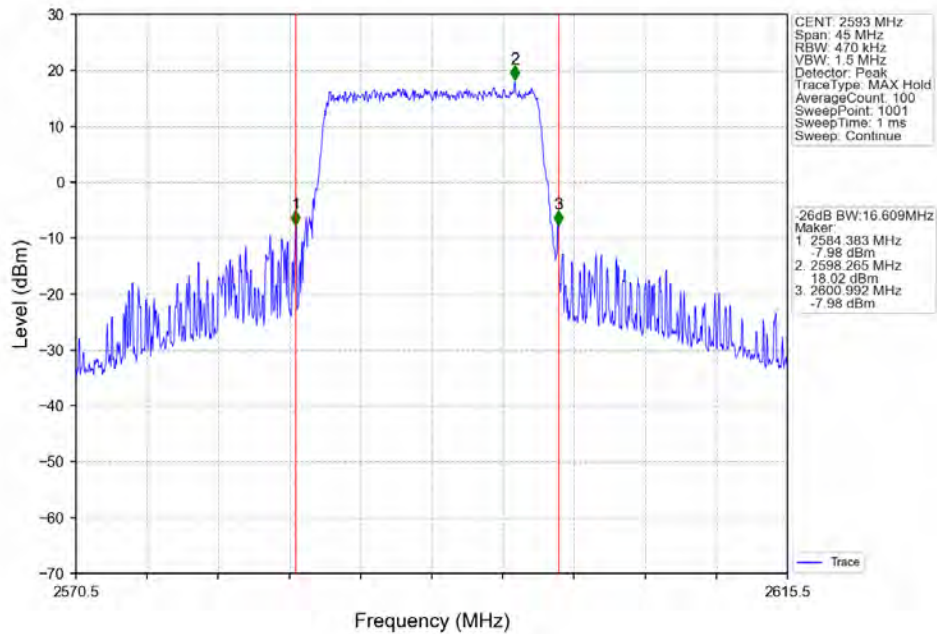
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Band41_15MHz_16QAM_HCH_2682.5MHz_RB_75_0_NTNV



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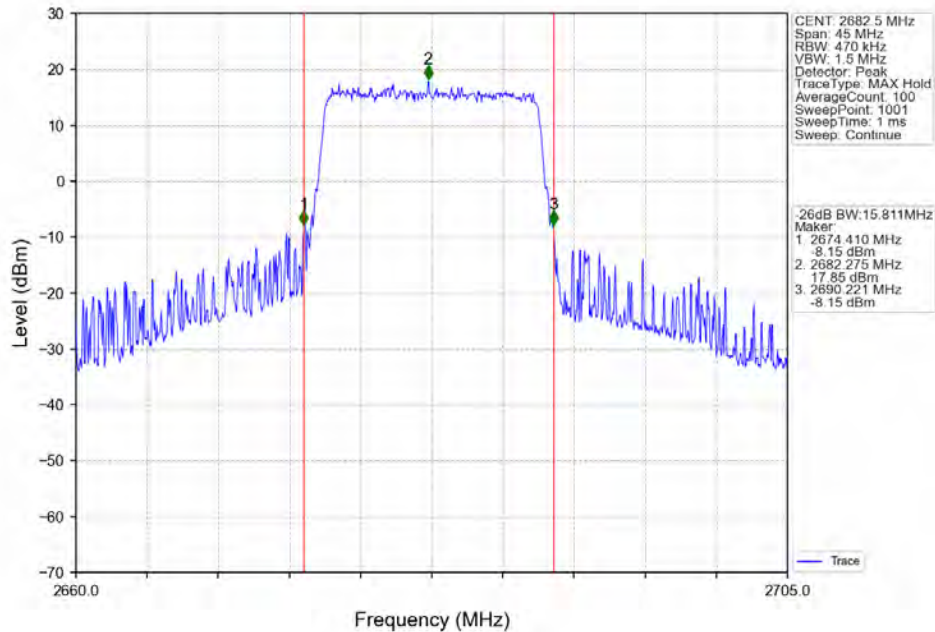
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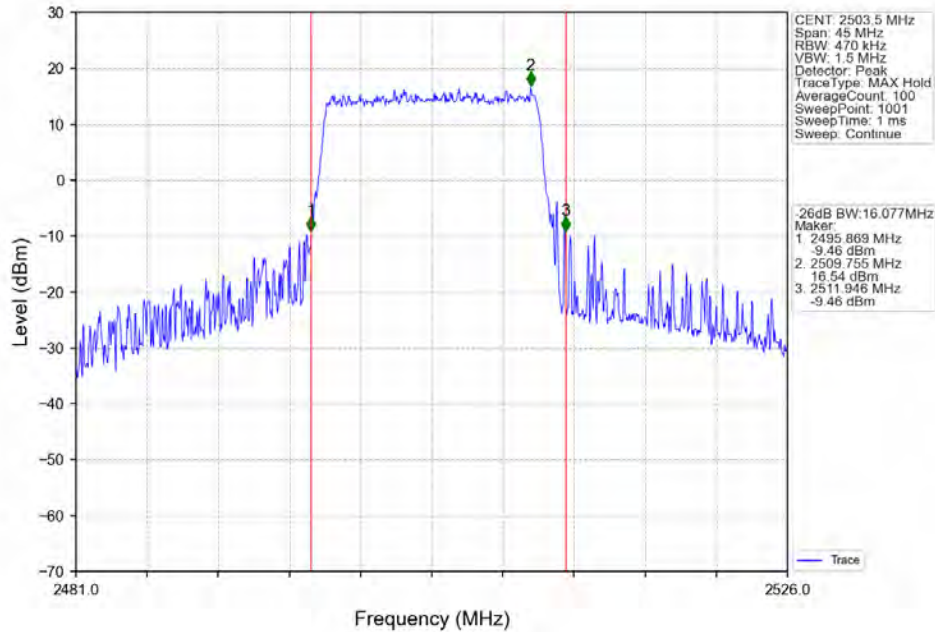
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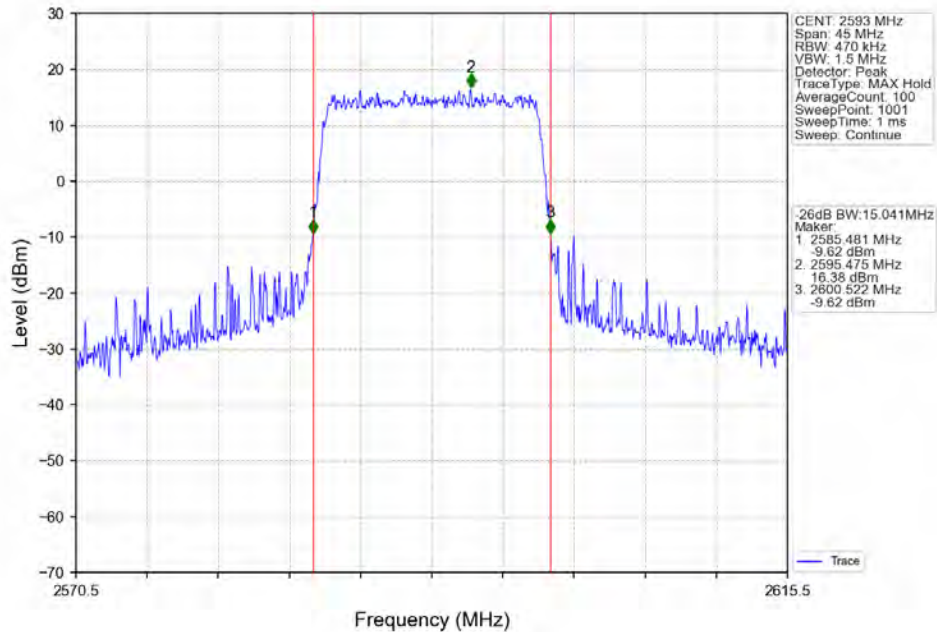
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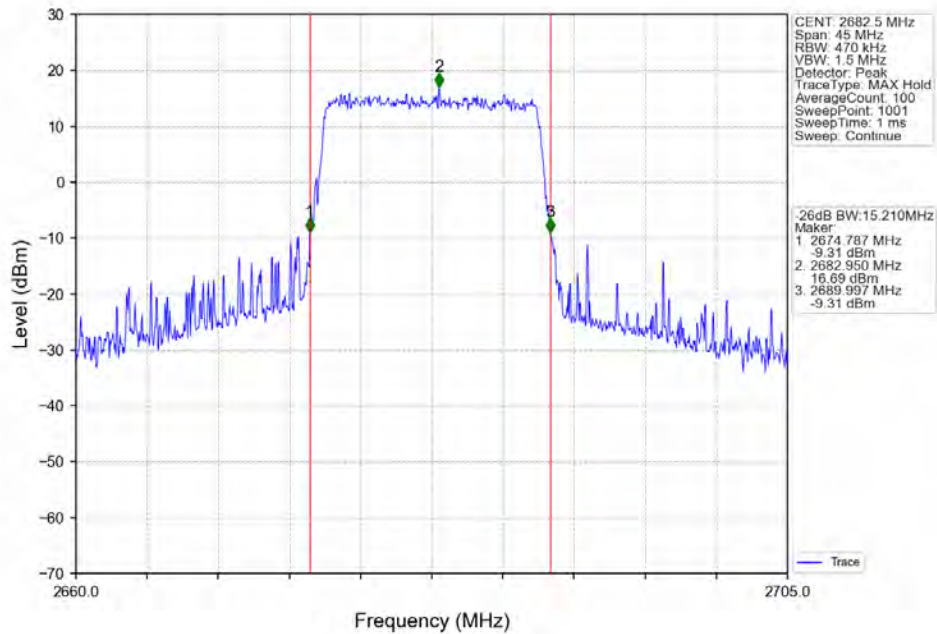
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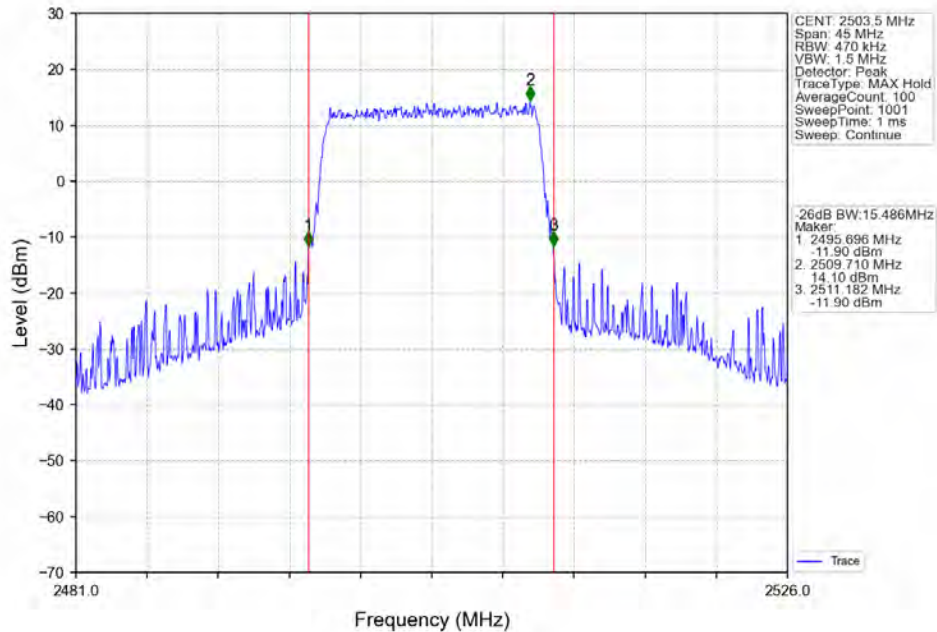
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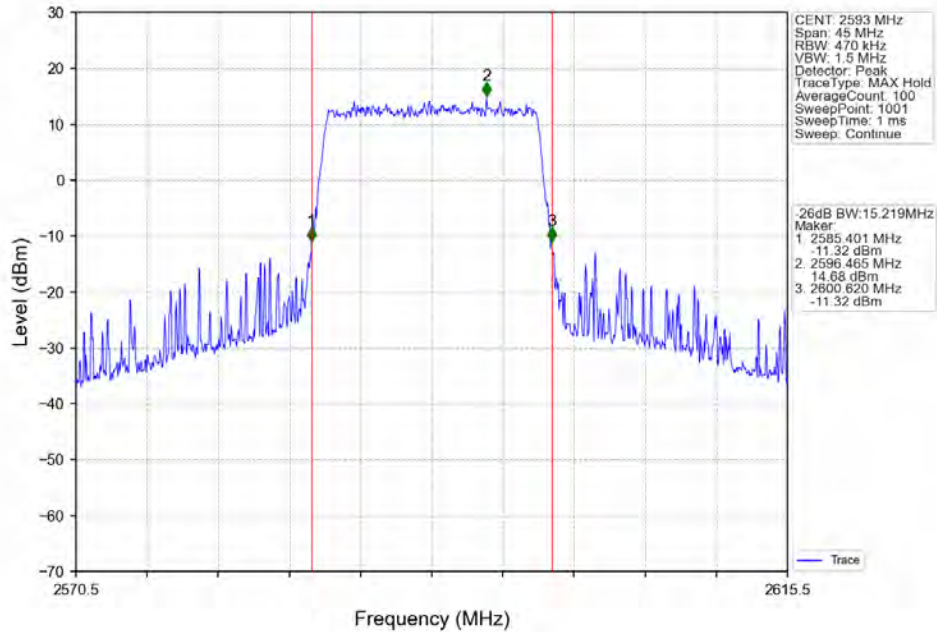
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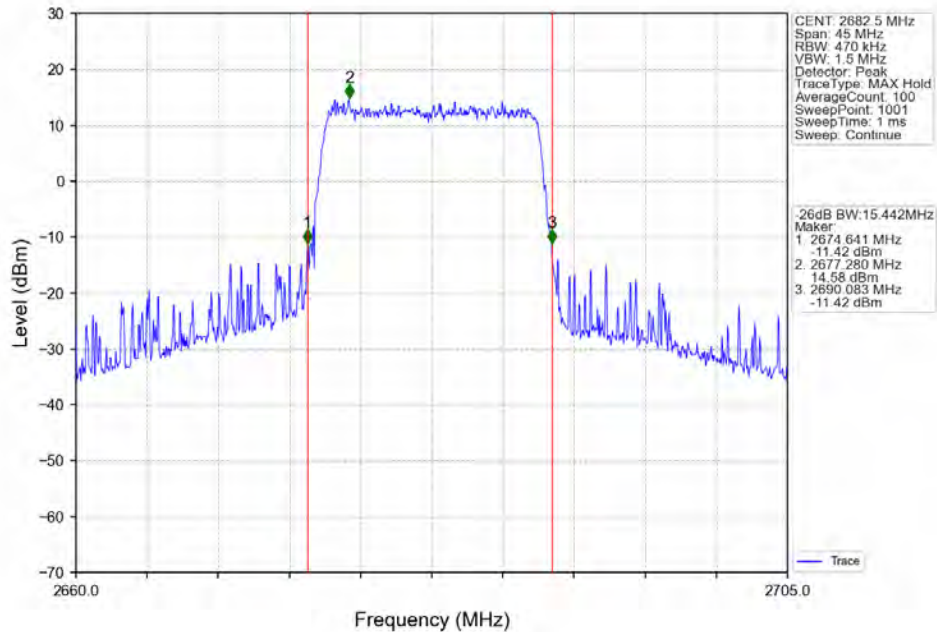
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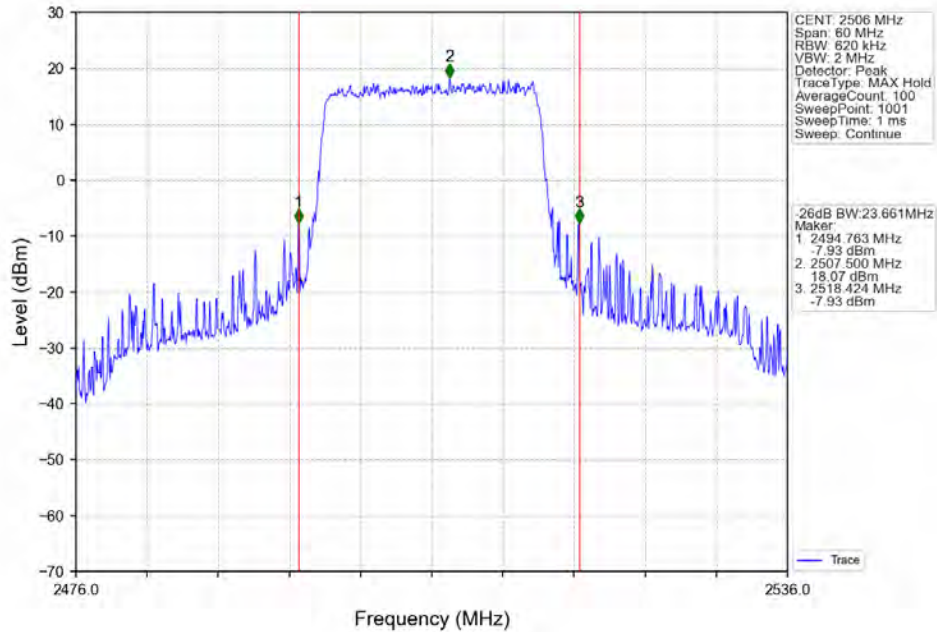
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Band41 20MHz QPSK LCH 2506MHz RB 100 0 NTN



Band41 20MHz QPSK MCH 2593MHz RB 100 0 NTN



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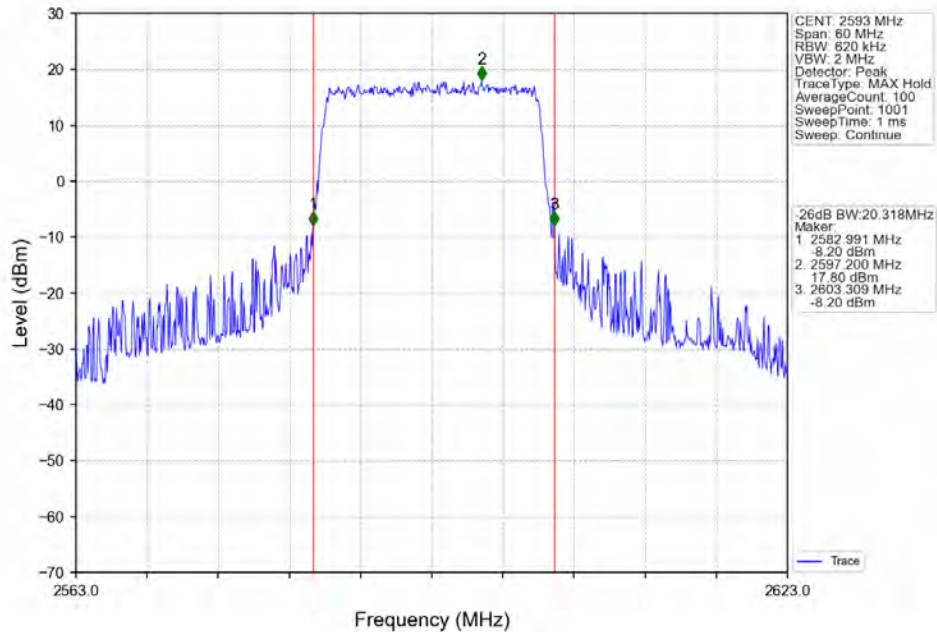
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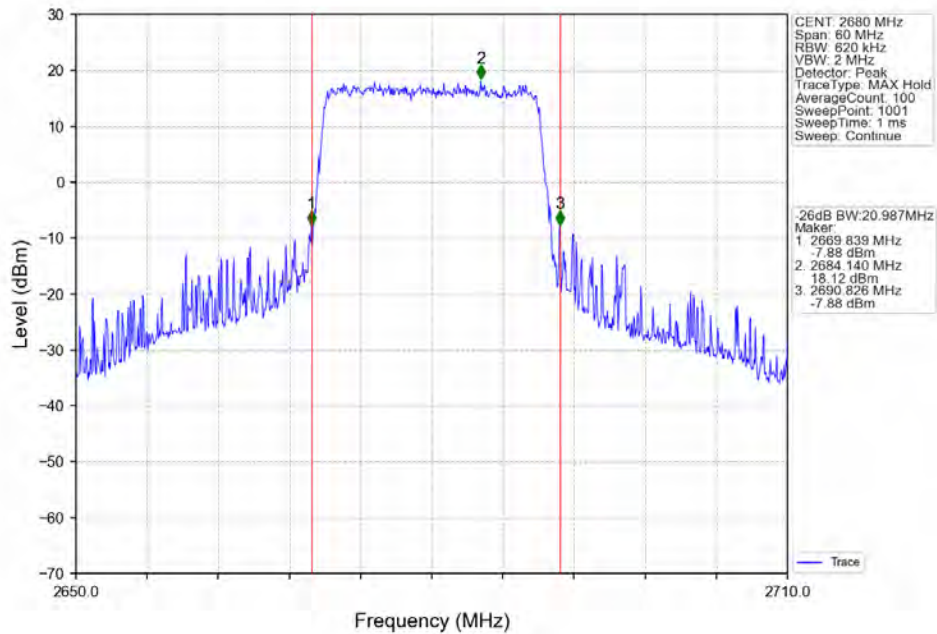
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Band41 20MHz QPSK HCH 2680MHz RB 100 0 NTN



Band41 20MHz 16QAM LCH 2506MHz RB 100 0 NTN



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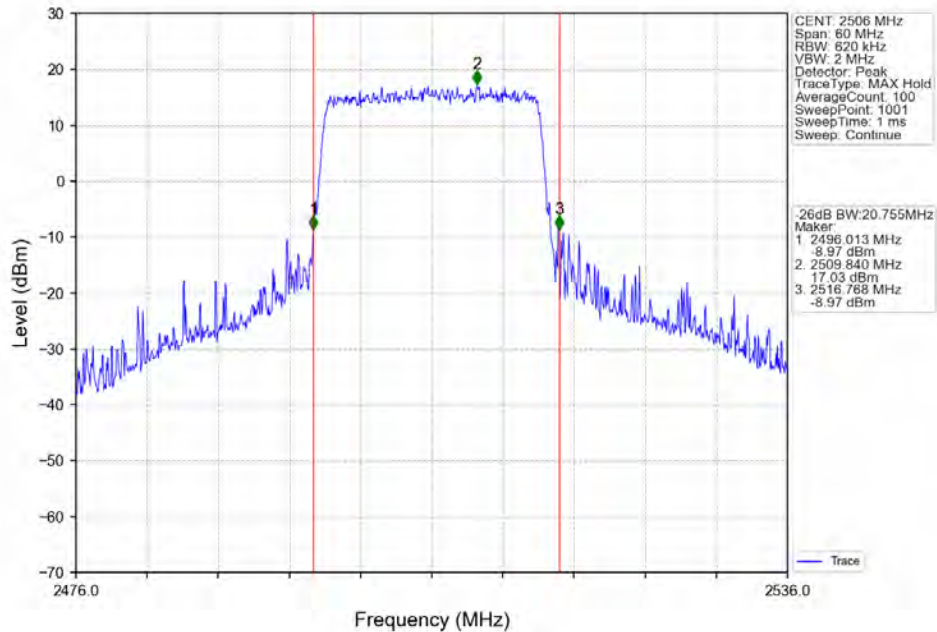
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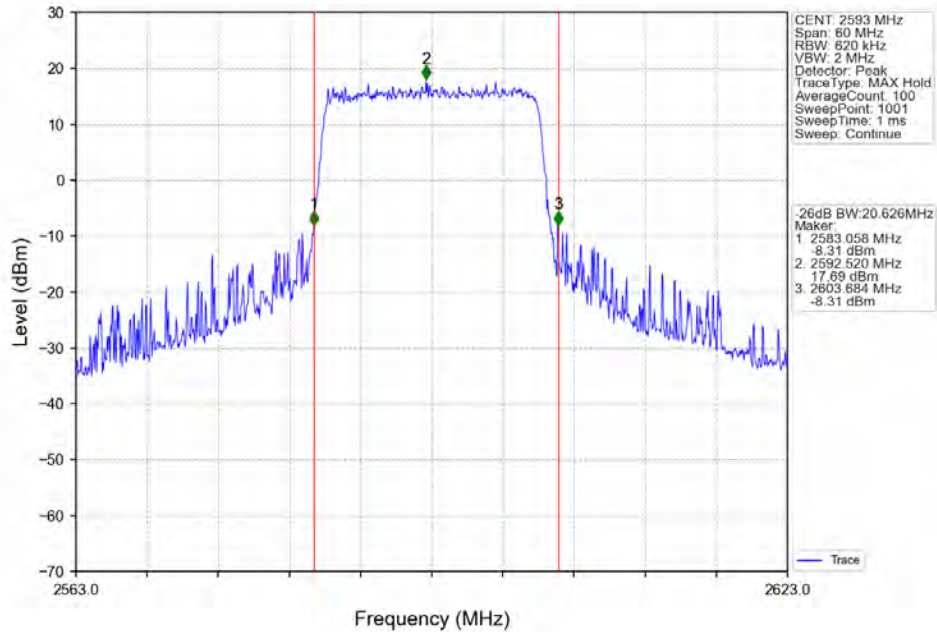
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Band41_20MHz_16QAM_HCH_2680MHz_RB_100_0_NTNV



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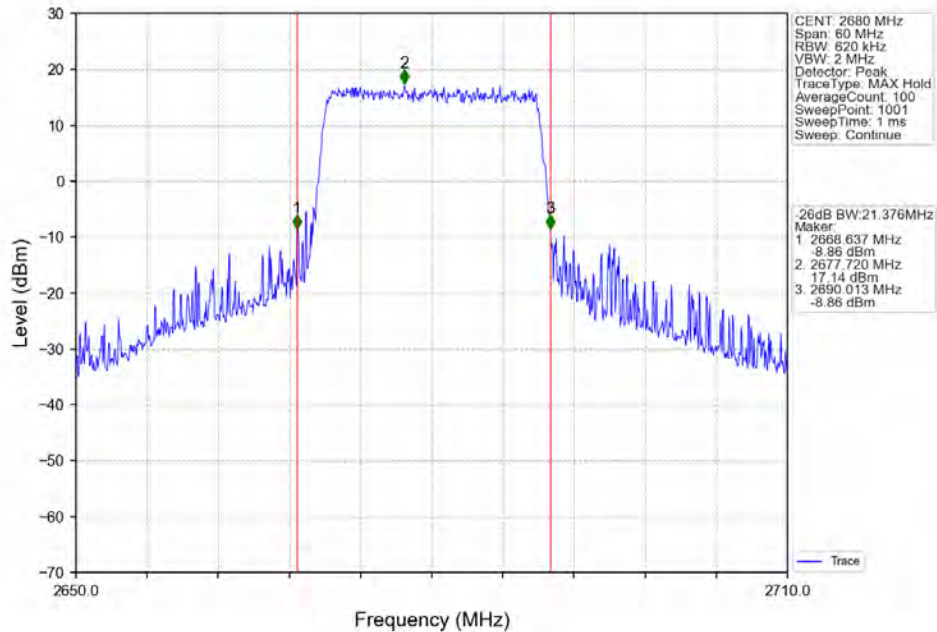
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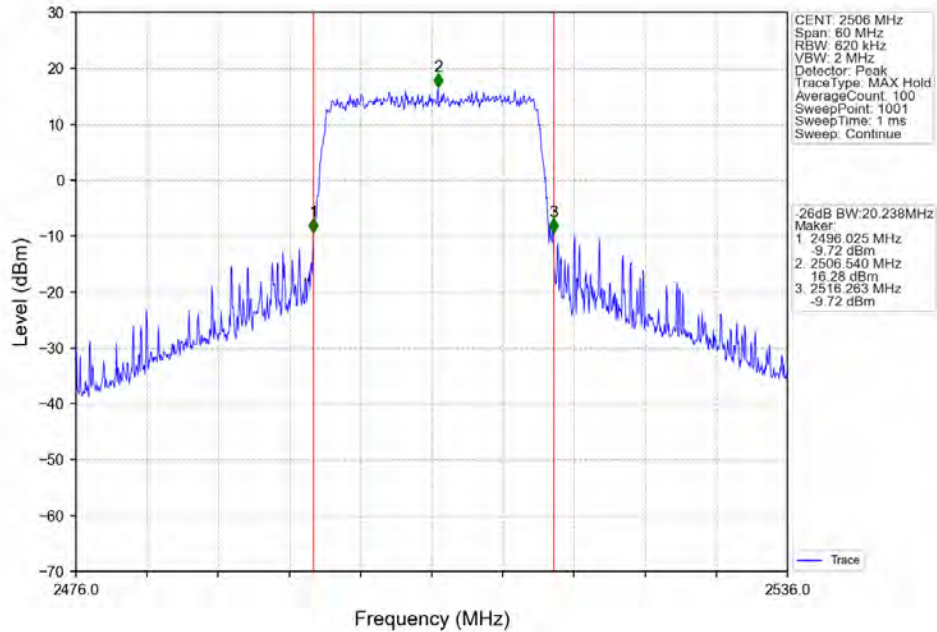
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Band41_20MHz_64QAM_LCH_2506MHz_RB_100_0_NTNV



Band41_20MHz_64QAM_MCH_2593MHz_RB_100_0_NTNV



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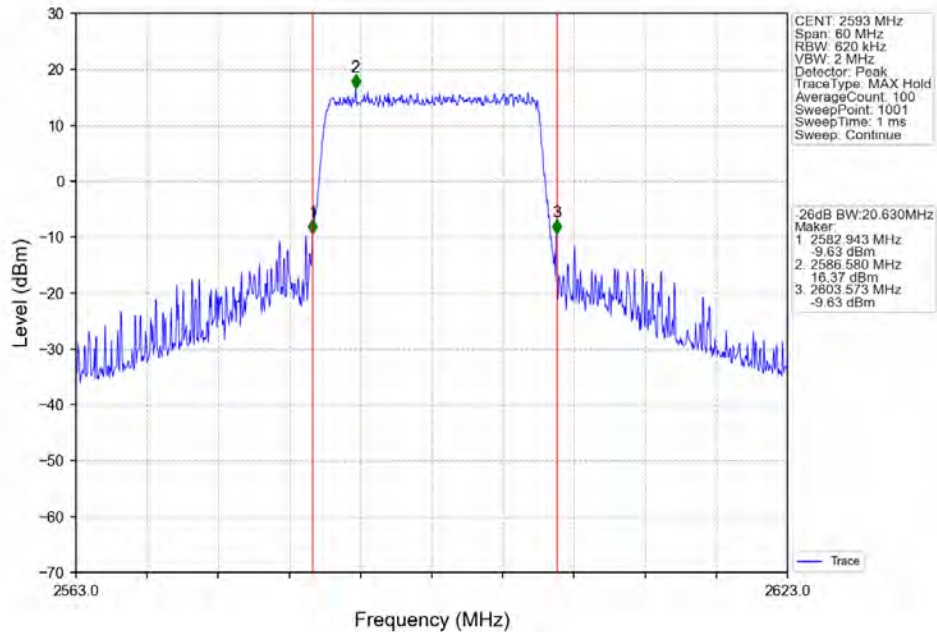
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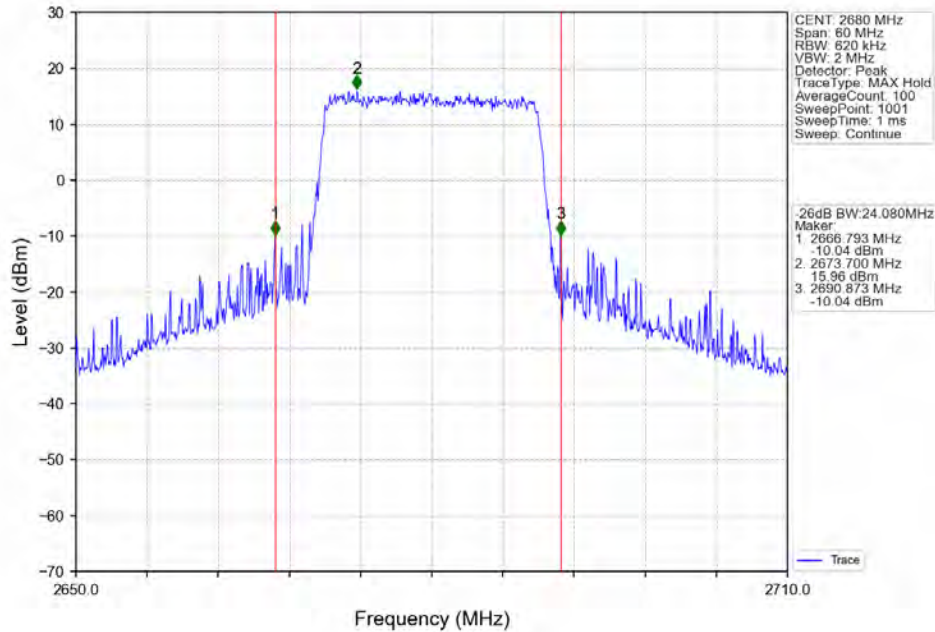
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Band41_20MHz_256QAM_LCH_2506MHz_RB_100_0_NTNV



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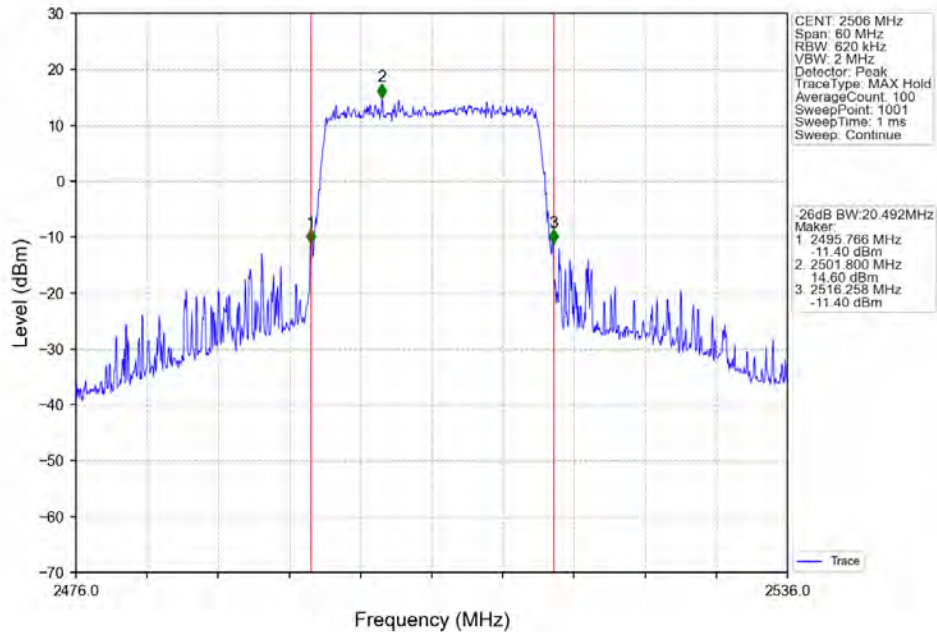
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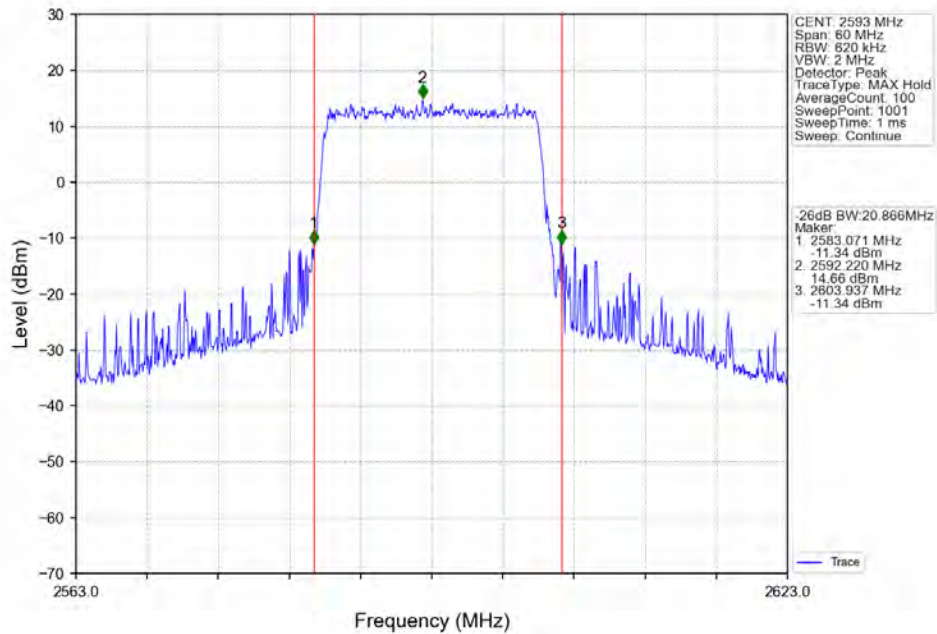
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Band41 20MHz 256QAM MCH 2593MHz RB 100 0 NTN



Band41 20MHz 256QAM HCH 2680MHz RB 100 0 NTN



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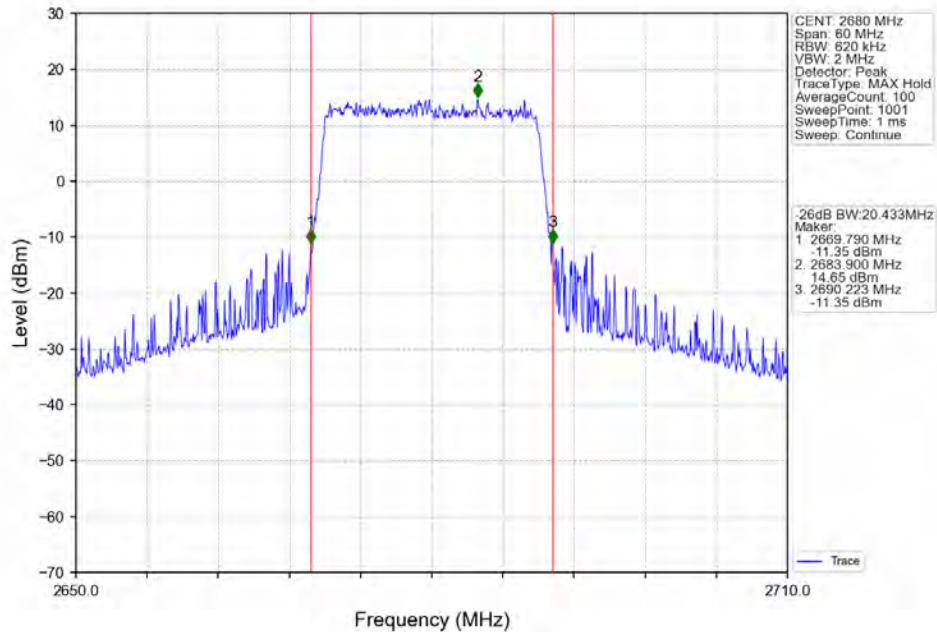
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5. Peak-Average Ratio

5.1 B41_5MHz

5.1.1 Test Result

Band: 41 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2498.5	25	0	7.23	<=13	Pass
	2593	25	0	7.18	<=13	Pass
	2687.5	25	0	7.03	<=13	Pass
16QAM	2498.5	25	0	8.36	<=13	Pass
	2593	25	0	8.16	<=13	Pass
	2687.5	25	0	8.38	<=13	Pass
64QAM	2498.5	25	0	13.00	<=13	Pass
	2593	25	0	8.60	<=13	Pass
	2687.5	25	0	12.92	<=13	Pass
256QAM	2498.5	25	0	8.76	<=13	Pass
	2593	25	0	9.03	<=13	Pass
	2687.5	25	0	9.05	<=13	Pass



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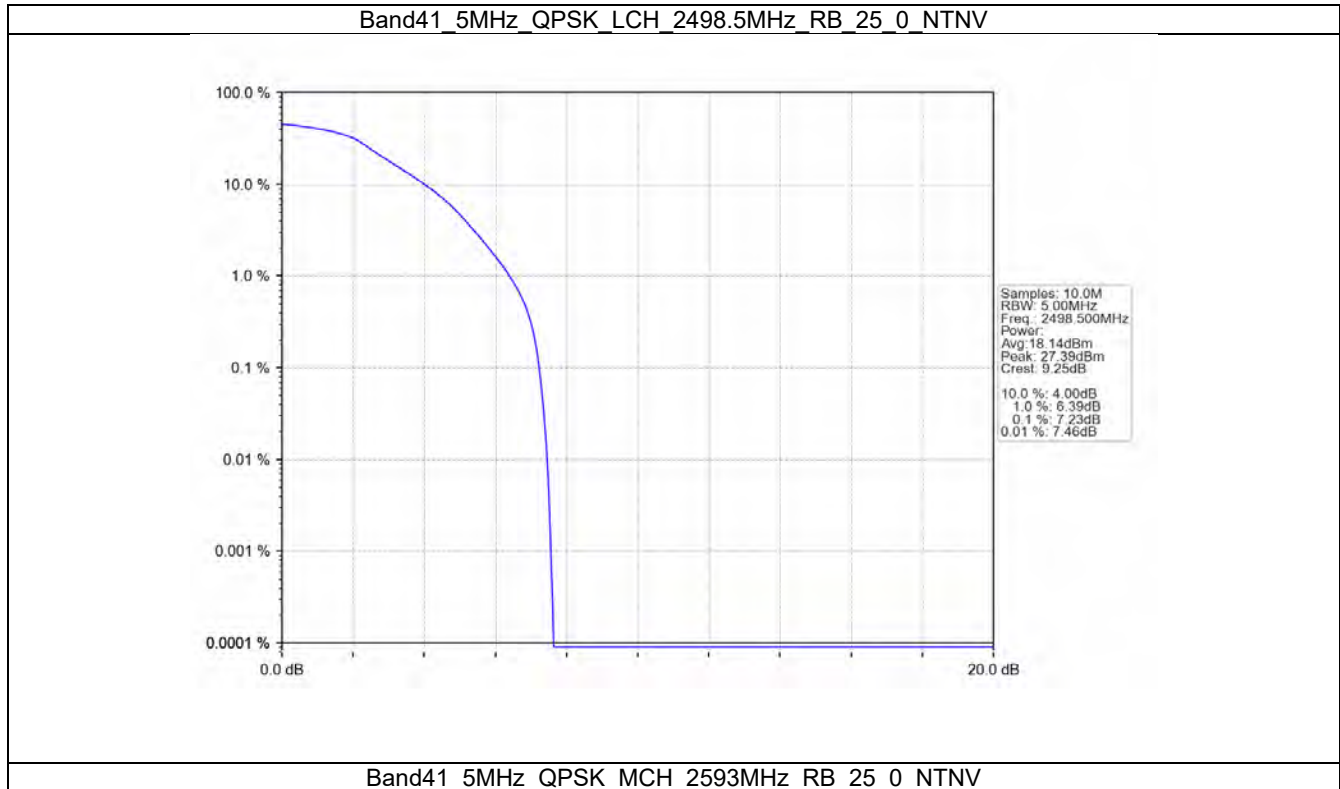
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5.1.2 Test Graph



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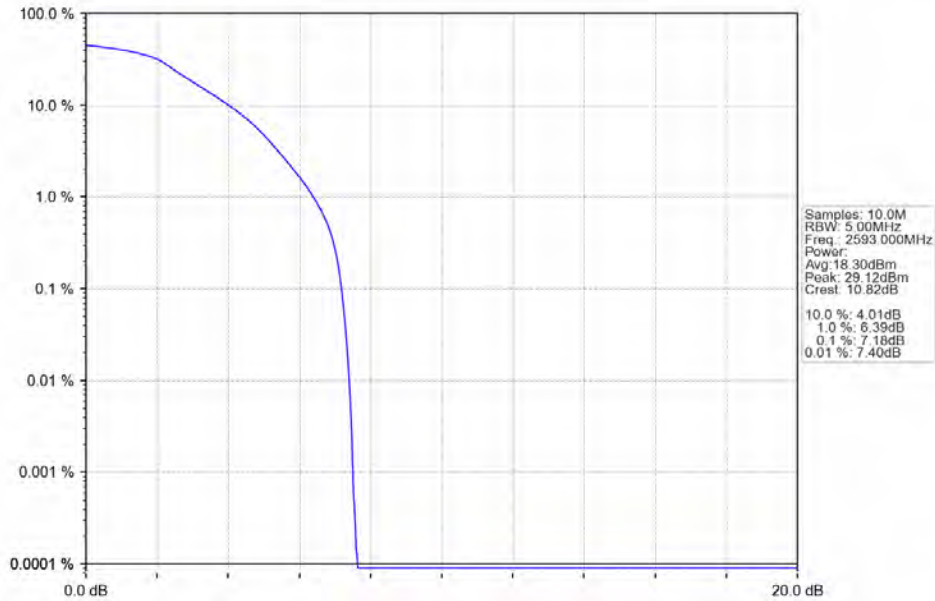
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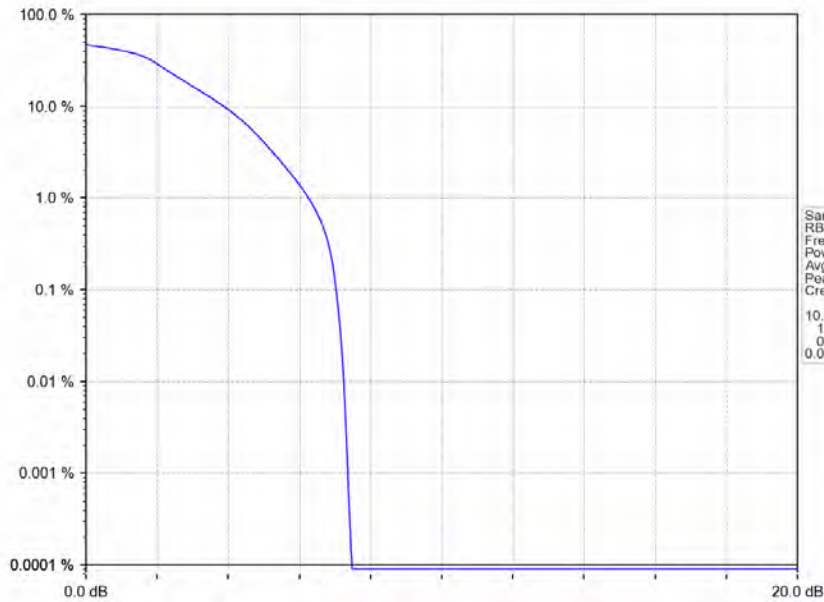
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Band41_5MHz_QPSK_HCH_2687.5MHz_RB_25_0_NTNV



Band41_5MHz_16QAM_LCH_2498.5MHz_RB_25_0_NTNV



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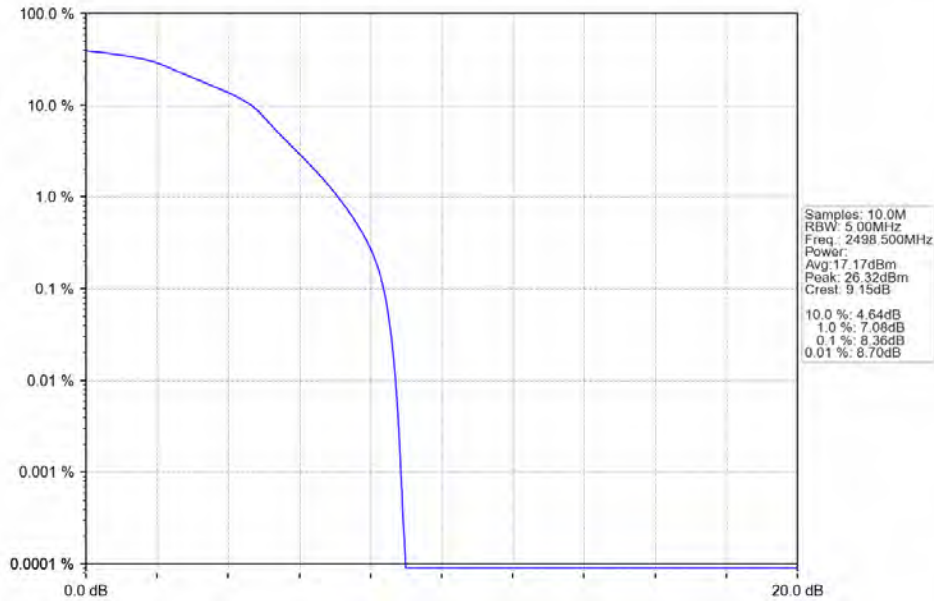
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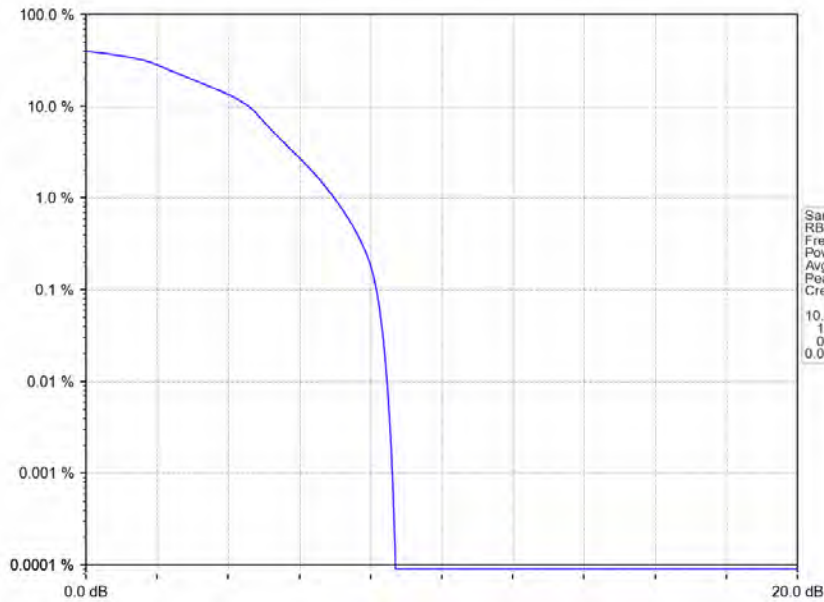
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Band41_5MHz_16QAM_MCH_2593MHz_RB_25_0_NTNV



Band41_5MHz_16QAM_HCH_2687.5MHz_RB_25_0_NTNV



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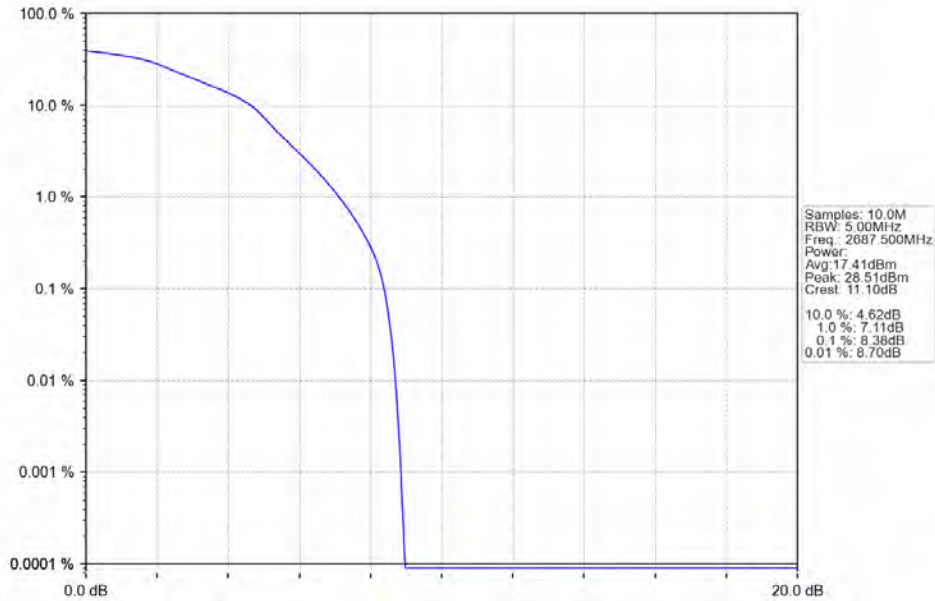
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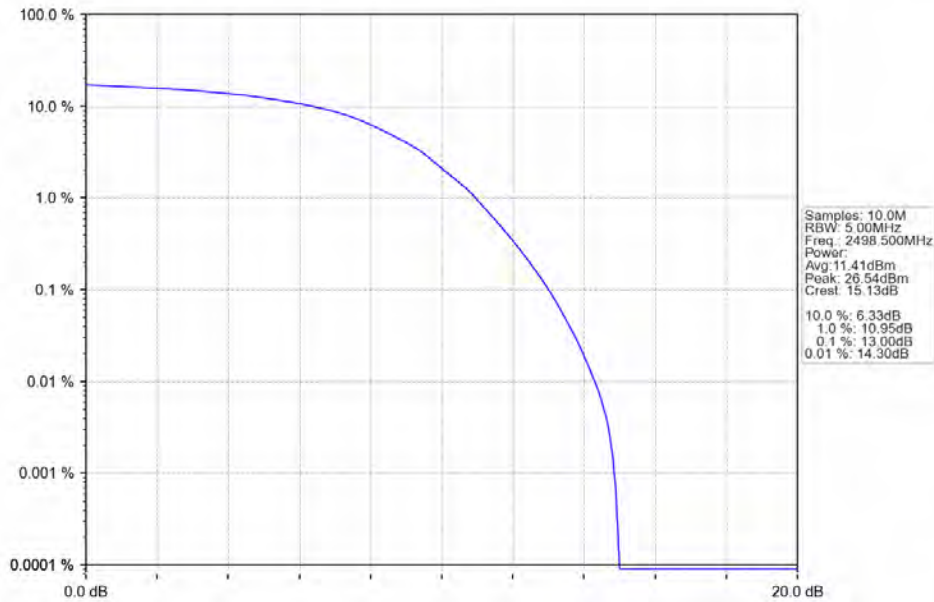
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Band41_5MHz_64QAM_LCH_2498.5MHz_RB_25_0_NTNV



Band41_5MHz_64QAM_MCH_2593MHz_RB_25_0_NTNV



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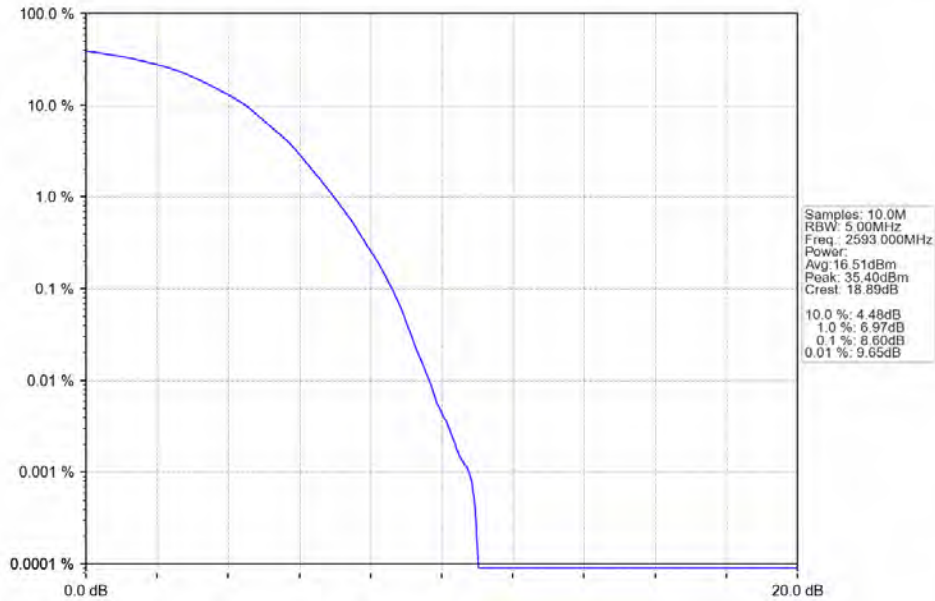
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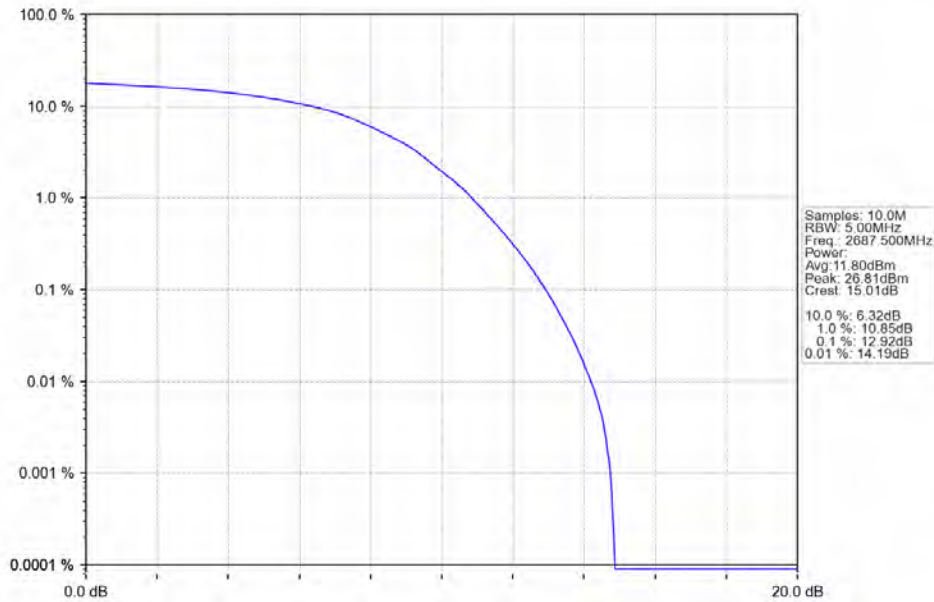
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Band41_5MHz_256QAM_LCH_2498.5MHz_RB_25_0_NTNV



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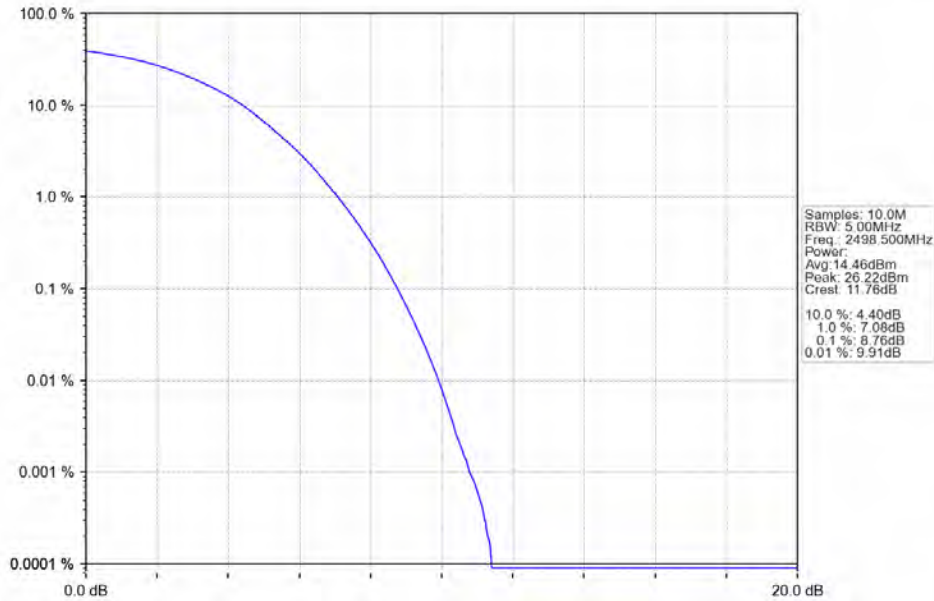
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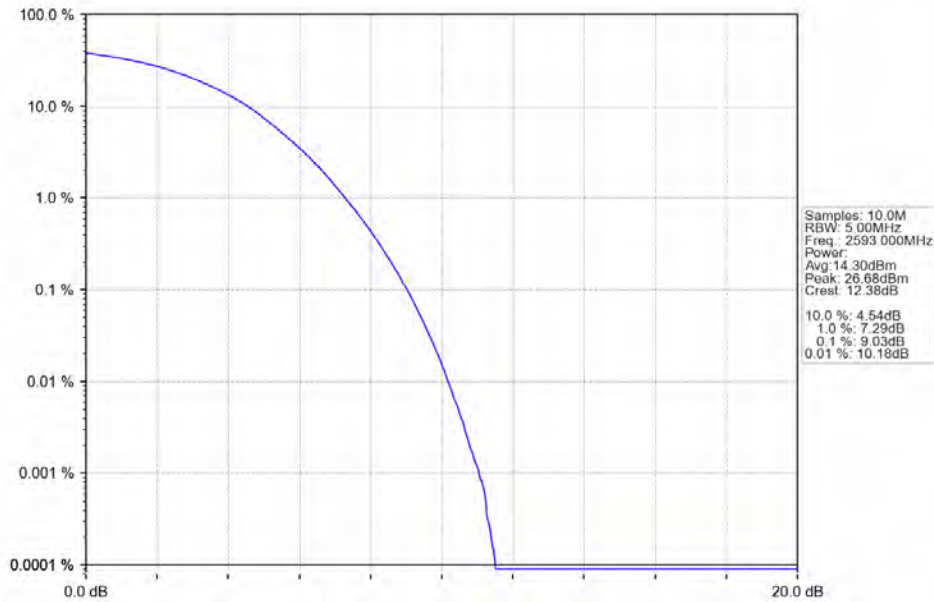
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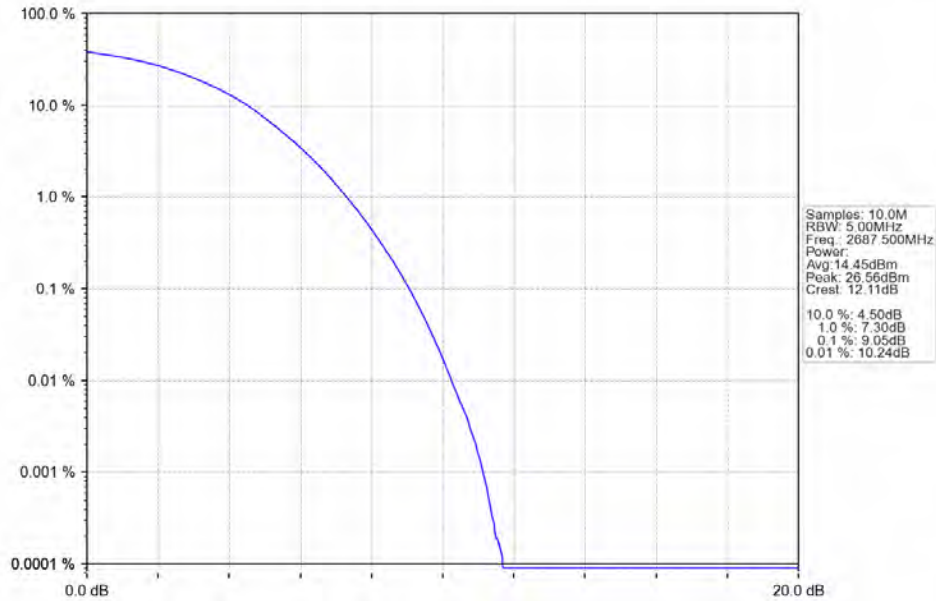
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5.2 B41_10MHz

5.2.1 Test Result

Band: 41 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2501	50	0	7.03	<=13	Pass
	2593	50	0	7.15	<=13	Pass
	2685	50	0	7.18	<=13	Pass
16QAM	2501	50	0	7.95	<=13	Pass
	2593	50	0	8.00	<=13	Pass
	2685	50	0	8.25	<=13	Pass
64QAM	2501	50	0	8.57	<=13	Pass
	2593	50	0	8.59	<=13	Pass
	2685	50	0	8.64	<=13	Pass
256QAM	2501	50	0	8.72	<=13	Pass
	2593	50	0	8.86	<=13	Pass
	2685	50	0	8.73	<=13	Pass



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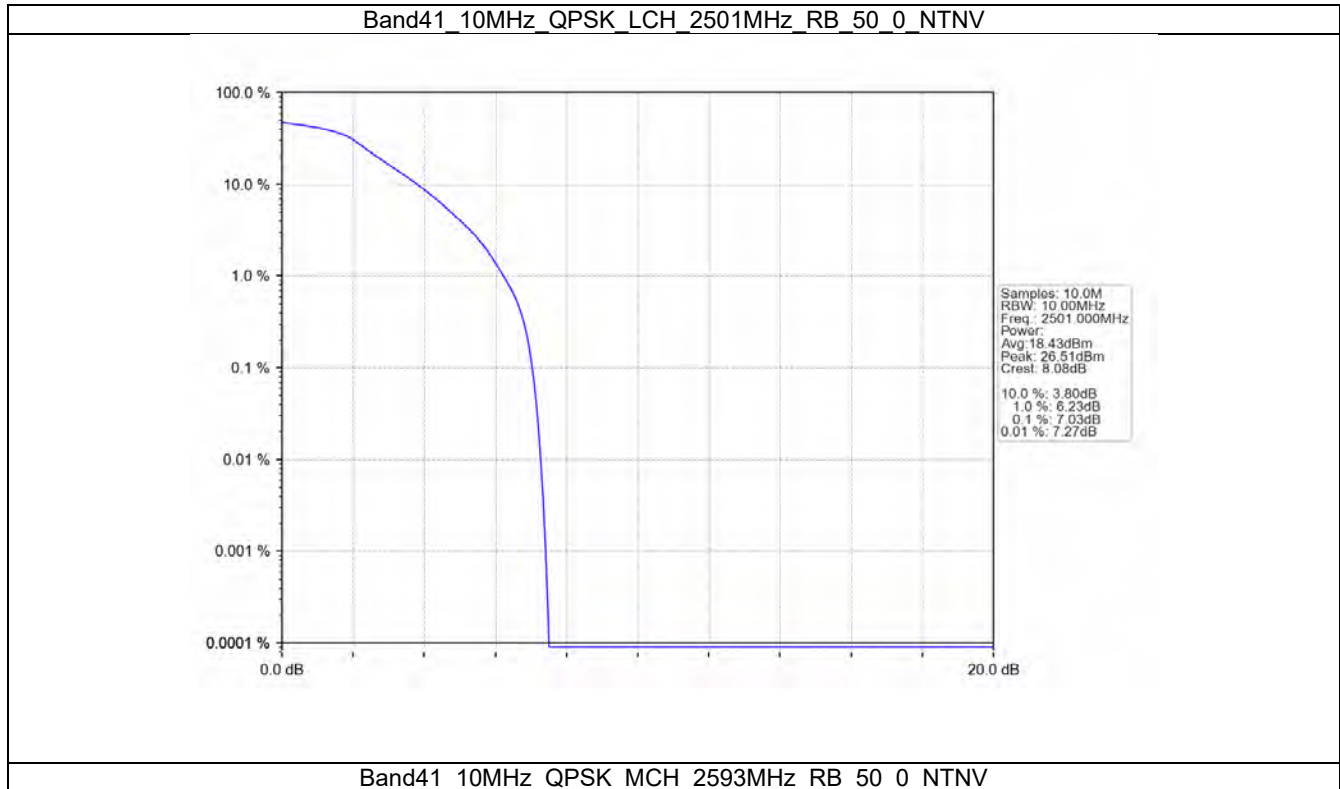
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5.2.2 Test Graph



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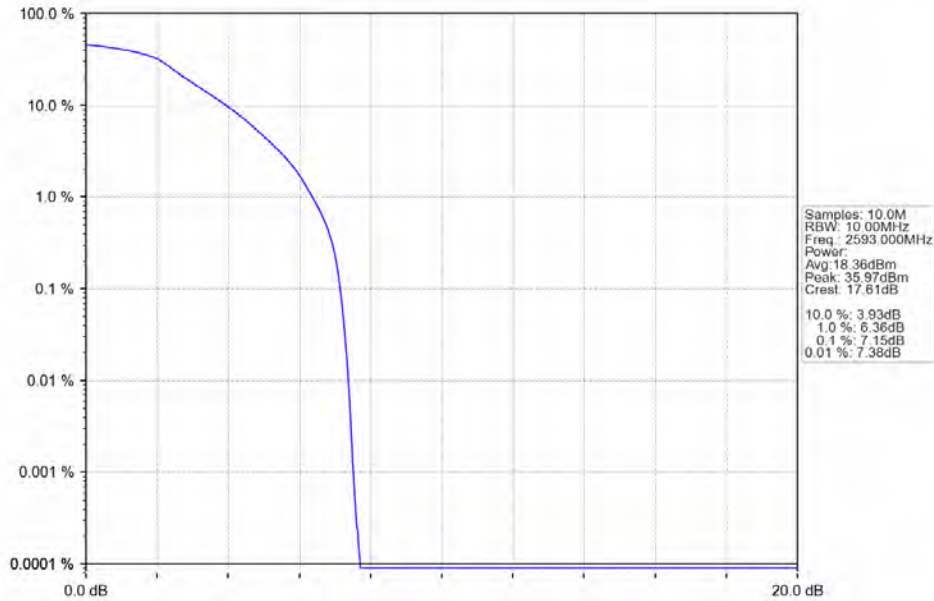
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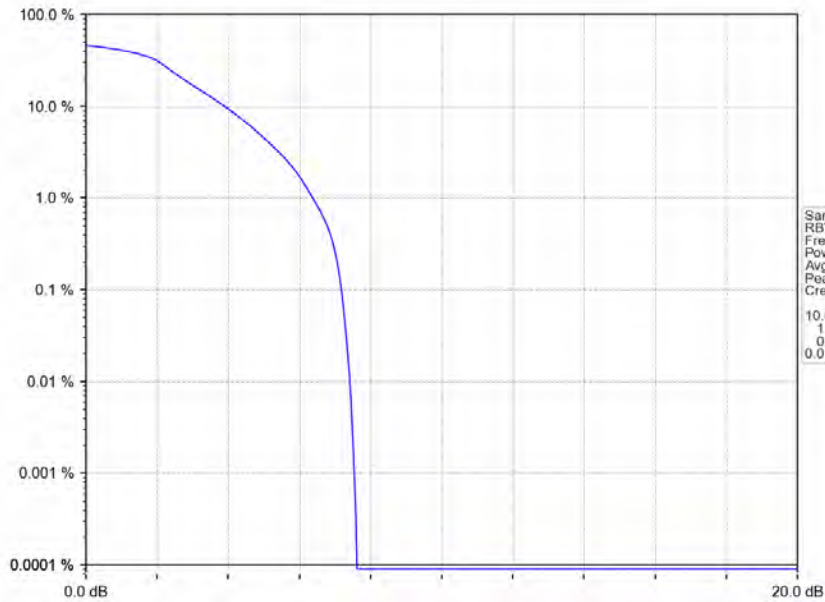
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Band41_10MHz_QPSK_HCH_2685MHz_RB_50_0_NTNV



Band41_10MHz_16QAM_LCH_2501MHz_RB_50_0_NTNV



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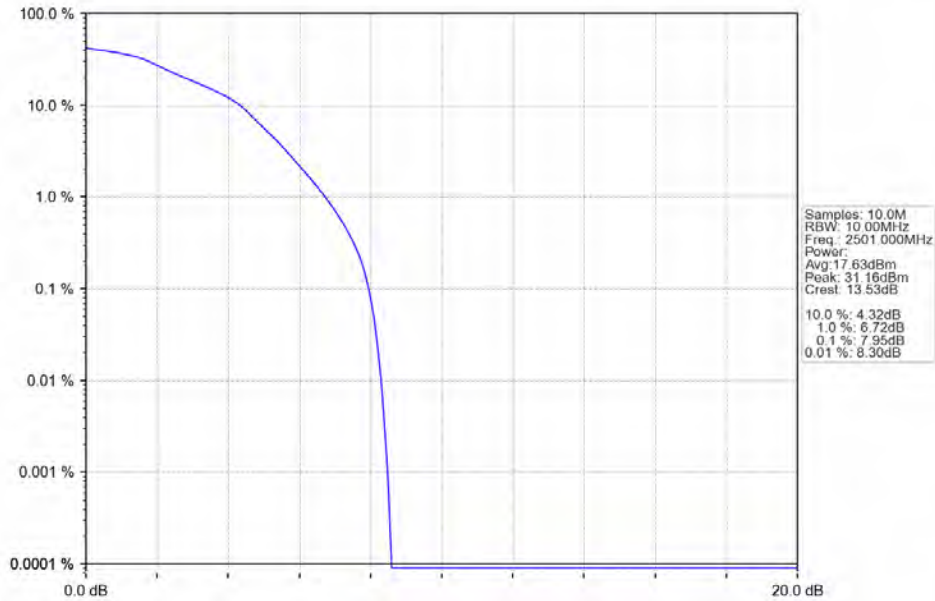
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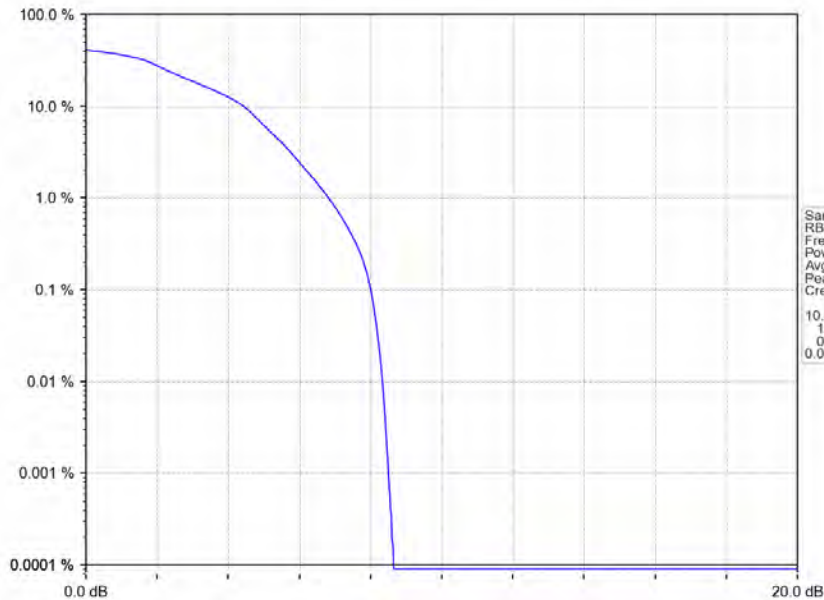
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Band41 10MHz 16QAM MCH 2593MHz RB 50 0 NTN



Band41 10MHz 16QAM HCH 2685MHz RB 50 0 NTN



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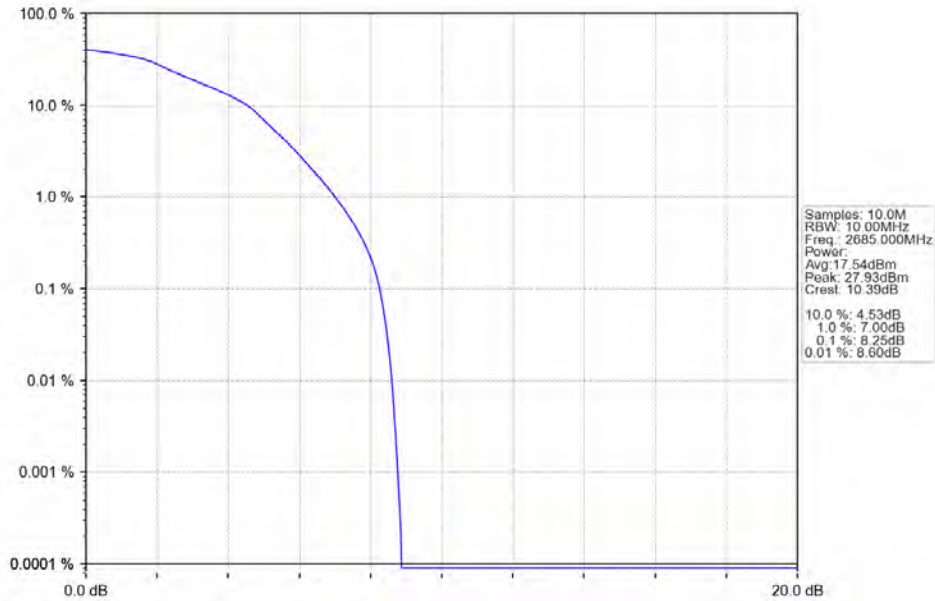
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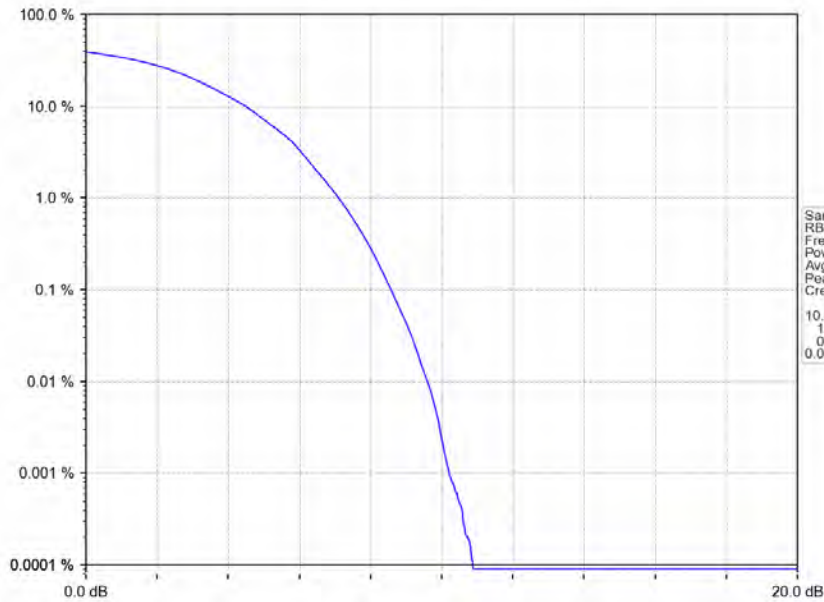
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Band41 10MHz 64QAM LCH 2501MHz RB 50 0 NTN



Band41 10MHz 64QAM MCH 2593MHz RB 50 0 NTN



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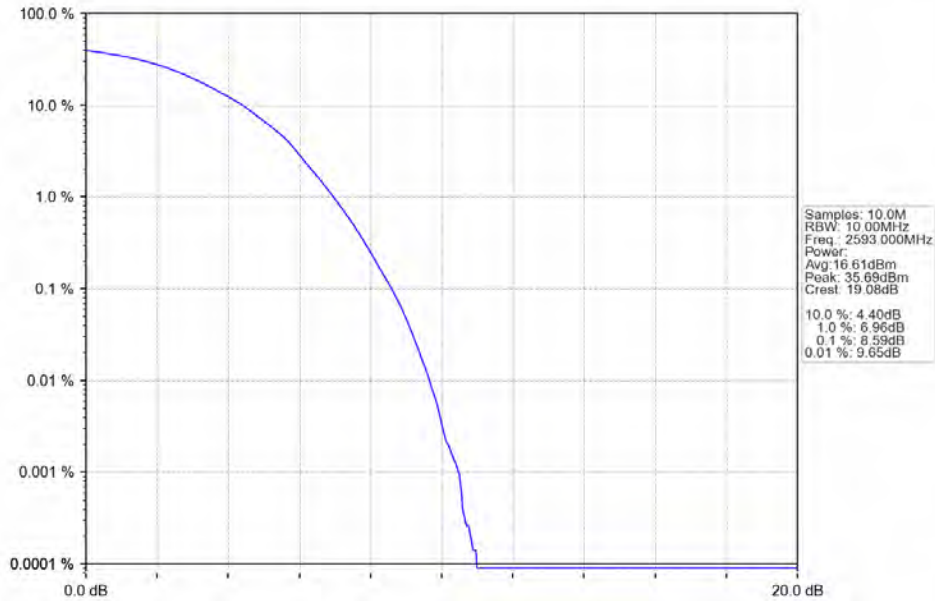
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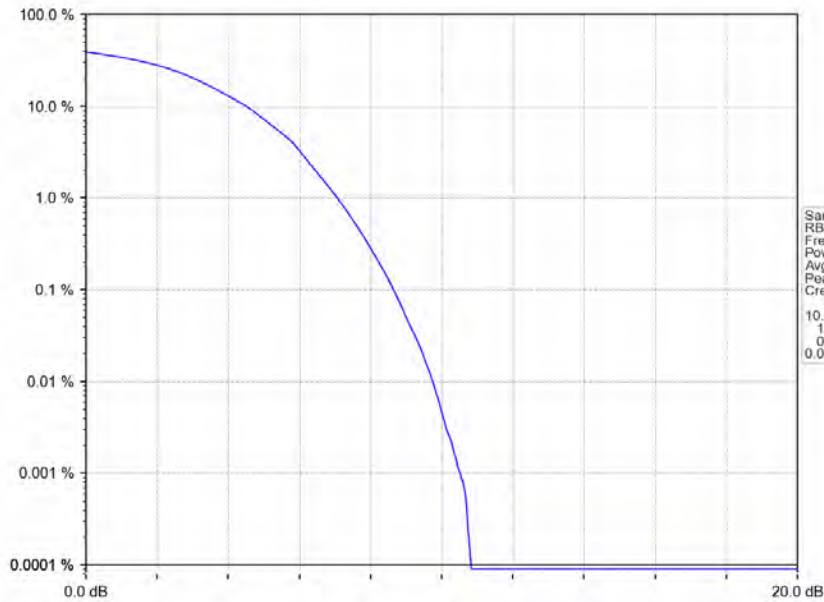
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Band41 10MHz 64QAM HCH 2685MHz RB 50 0 NTN



Samples: 10.0M
RBW: 10.00MHz
Freq: 2685.000MHz
Power:
Avg: 16.38dBm
Peak: 31.05dBm
Crest: 14.67dB
10.0 %: 4.50dB
1.0 %: 7.06dB
0.1 %: 8.64dB
0.01 %: 9.75dB

Band41 10MHz 256QAM LCH 2501MHz RB 50 0 NTN



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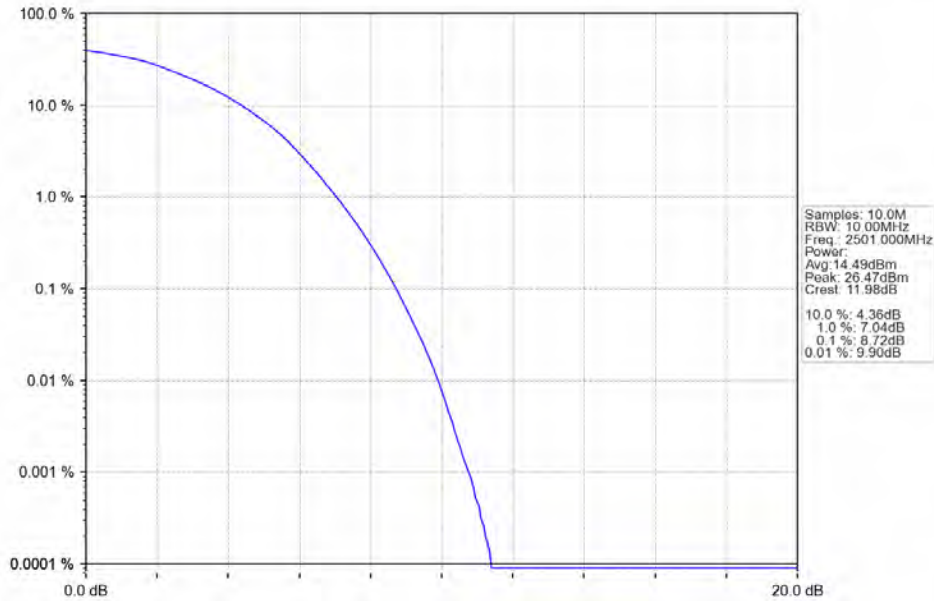
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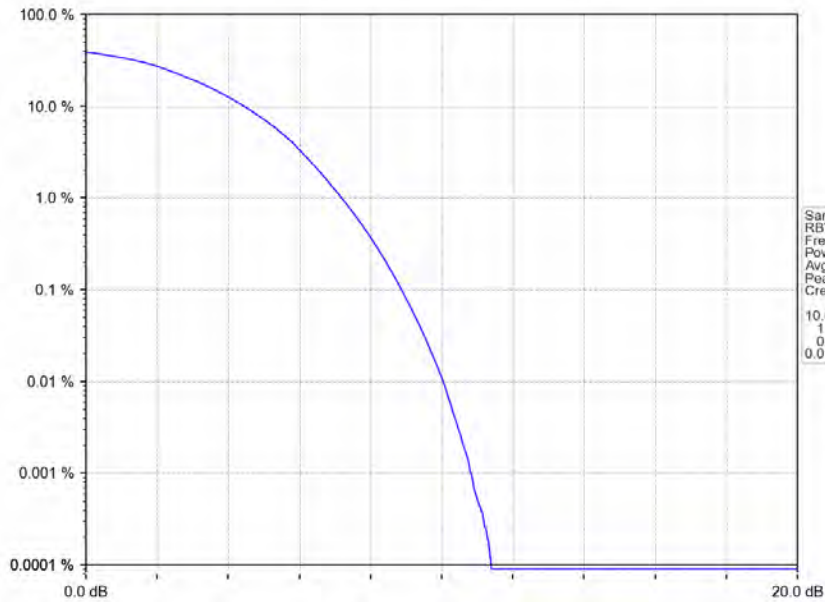
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Band41_10MHz_256QAM_MCH_2593MHz_RB_50_0_NTNV



Band41_10MHz_256QAM_HCH_2685MHz_RB_50_0_NTNV



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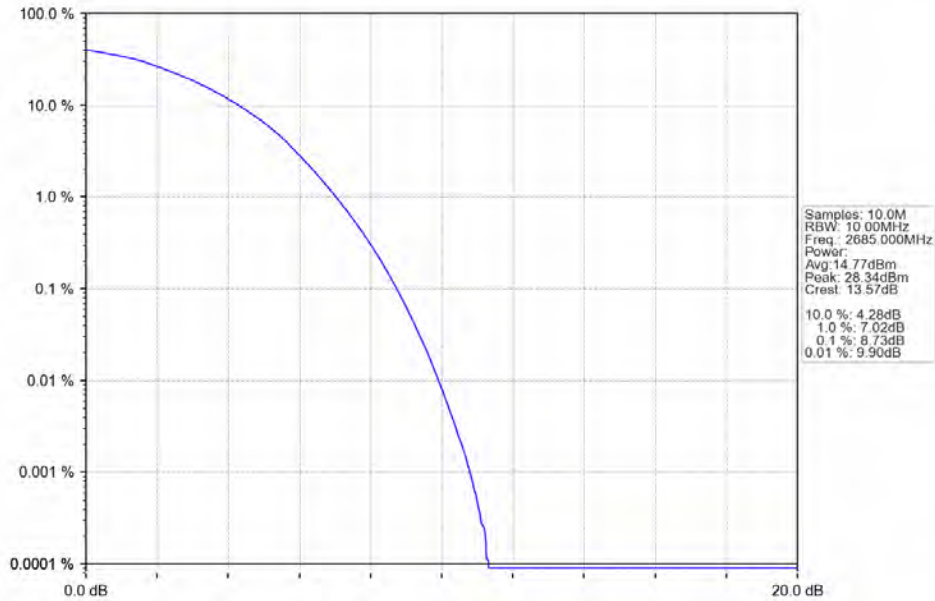
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5.3 B41_15MHz

5.3.1 Test Result

Band: 41 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2503.5	75	0	7.35	<=13	Pass
	2593	75	0	6.99	<=13	Pass
	2682.5	75	0	7.47	<=13	Pass
16QAM	2503.5	75	0	8.61	<=13	Pass
	2593	75	0	8.46	<=13	Pass
	2682.5	75	0	7.74	<=13	Pass
64QAM	2503.5	75	0	8.79	<=13	Pass
	2593	75	0	8.46	<=13	Pass
	2682.5	75	0	8.45	<=13	Pass
256QAM	2503.5	75	0	8.67	<=13	Pass
	2593	75	0	8.88	<=13	Pass
	2682.5	75	0	8.82	<=13	Pass



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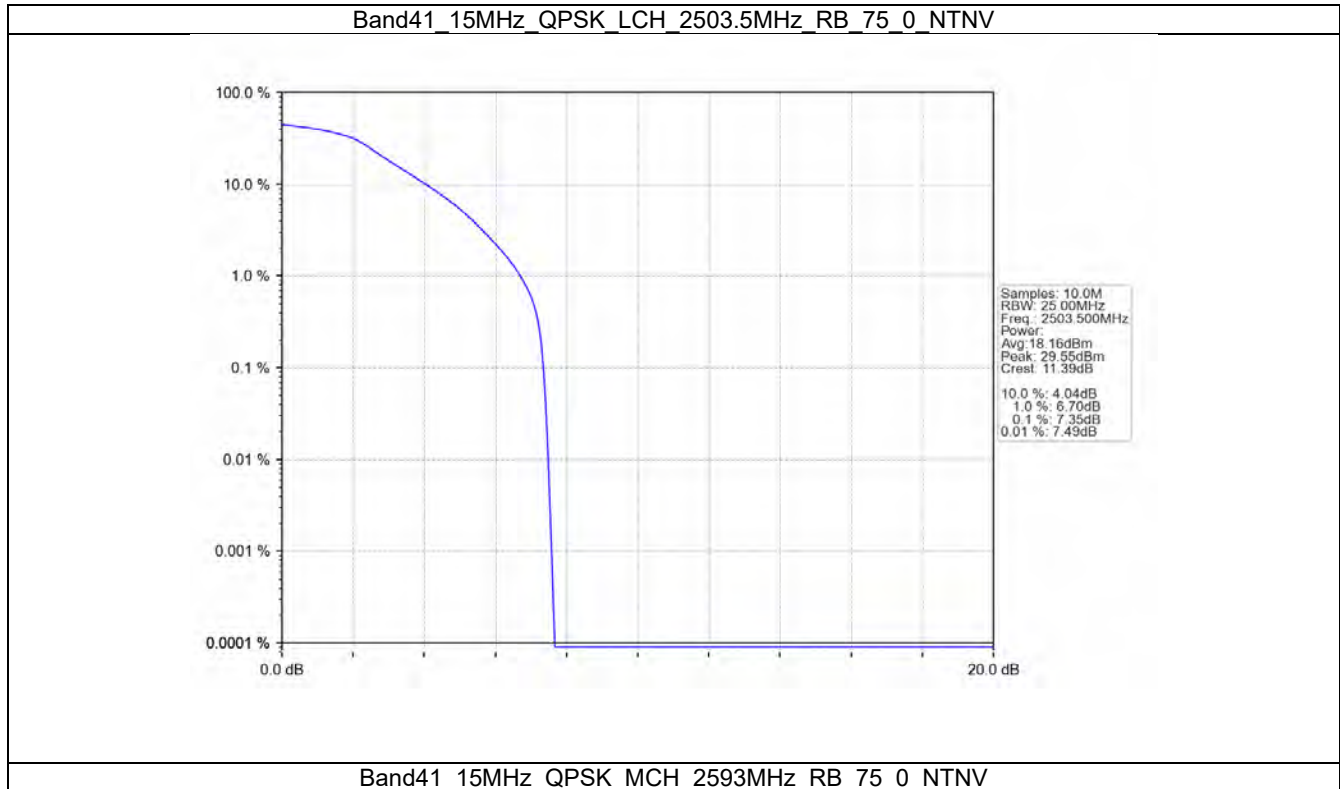
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5.3.2 Test Graph



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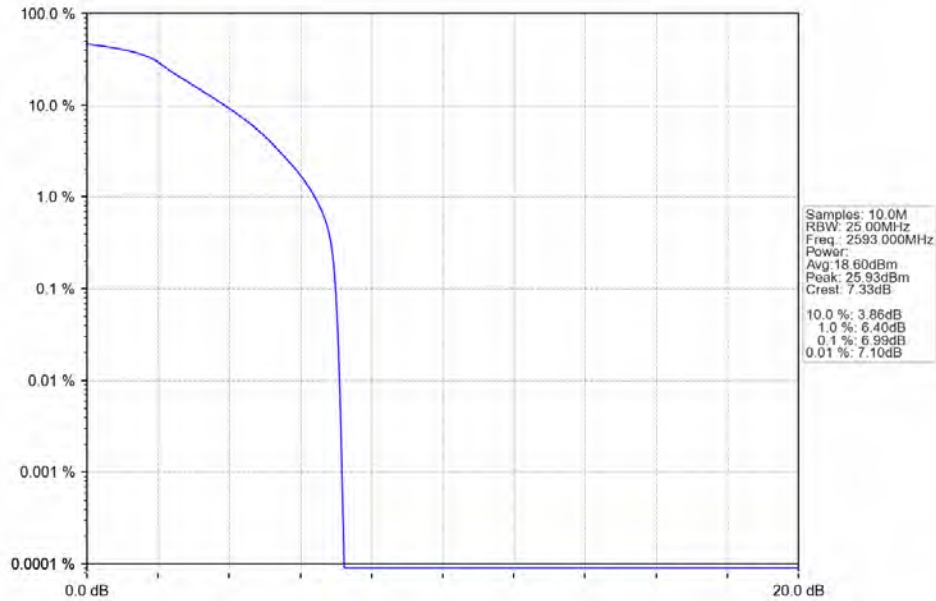
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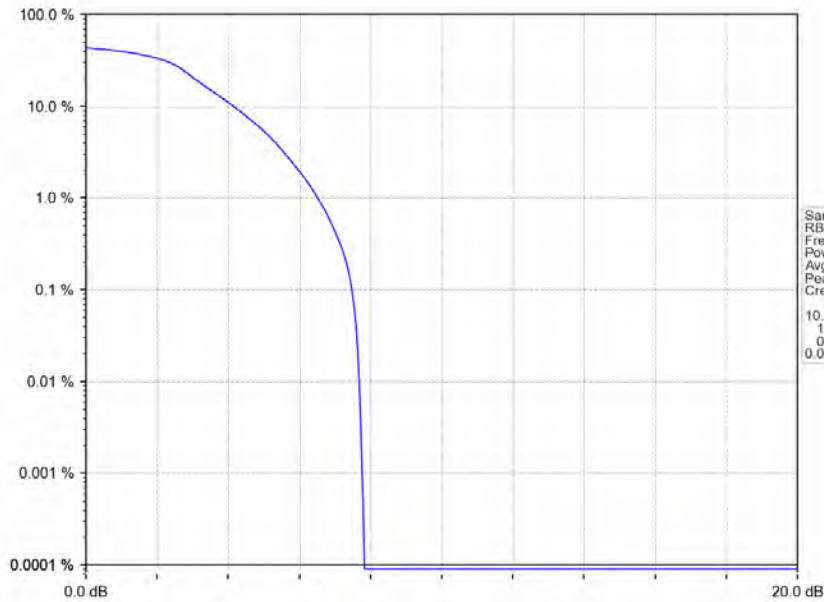
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Band41_15MHz_QPSK_HCH_2682.5MHz_RB_75_0_NTNV



Samples: 10.0M
RBW: 25.00MHz
Freq: 2682.500MHz
Power:
Avg: 18.66dBm
Peak: 35.80dBm
Crest: 17.14dB
10.0%: 4.14dB
1.0%: 6.52dB
0.1%: 7.47dB
0.01%: 7.68dB

Band41_15MHz_16QAM_LCH_2503.5MHz_RB_75_0_NTNV



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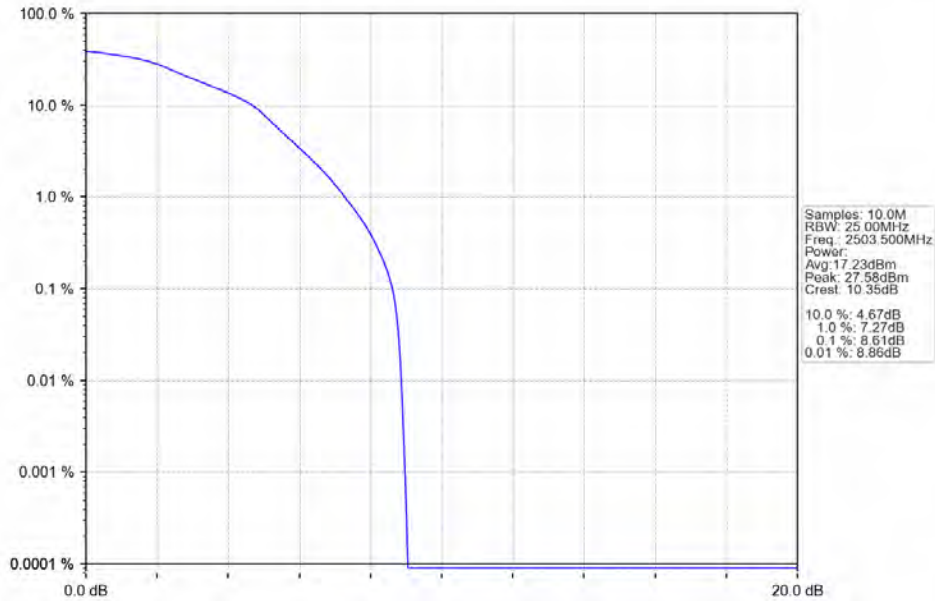
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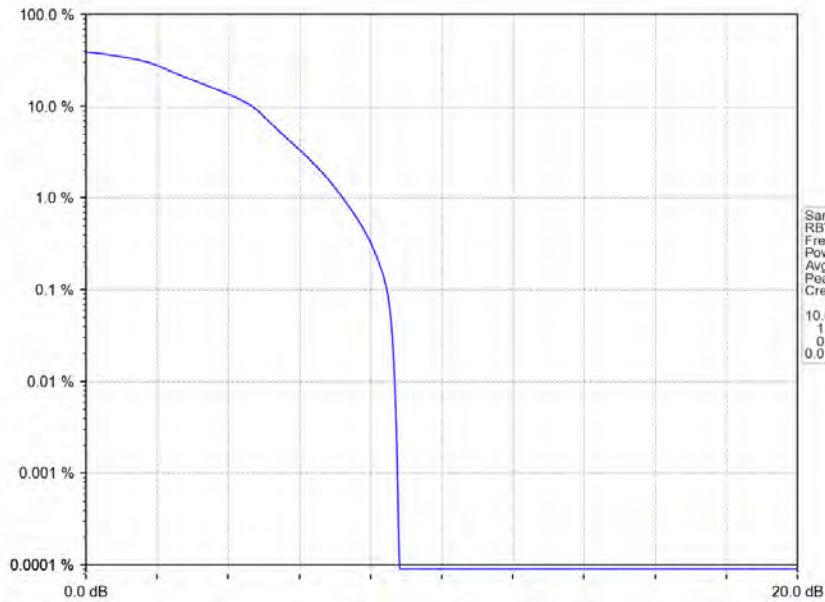
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Band41_15MHz_16QAM_MCH_2593MHz_RB_75_0_NTNV



Band41_15MHz_16QAM_HCH_2682.5MHz_RB_75_0_NTNV



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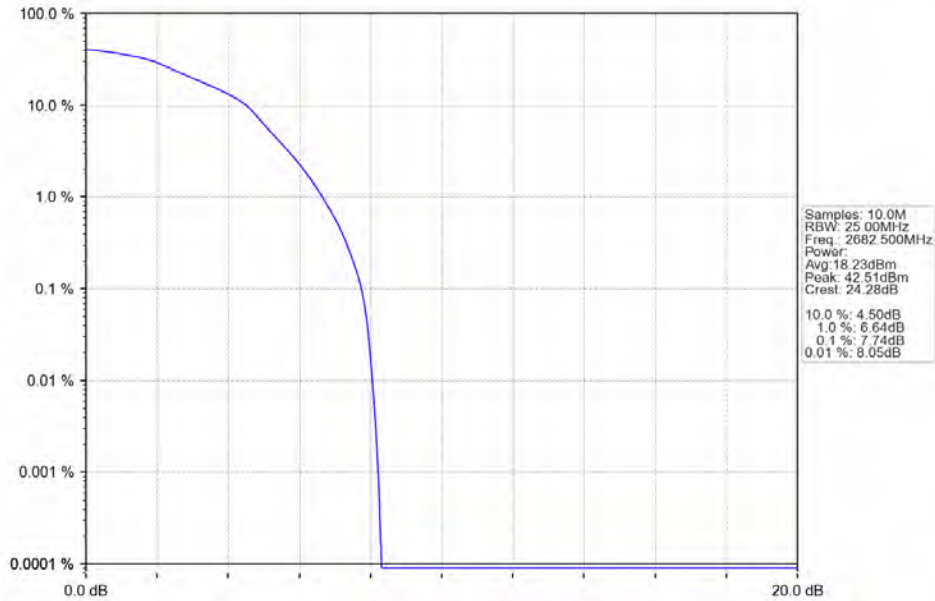
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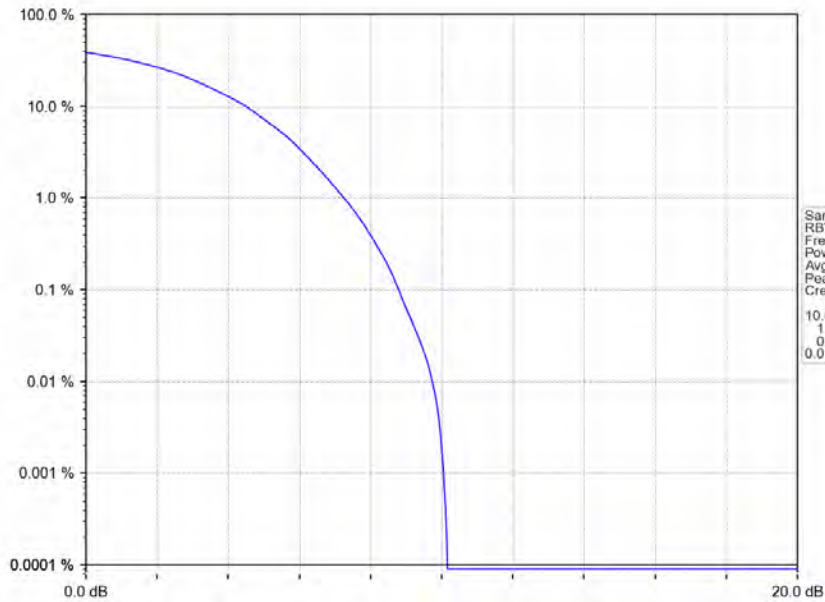
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Band41_15MHz_64QAM_LCH_2503.5MHz_RB_75_0_NTNV



Samples: 10.0M
RBW: 25.00MHz
Freq: 2503.500MHz
Power:
Avg: 16.46dBm
Peak: 31.93dBm
Crest: 15.47dB
10.0%: 4.49dB
1.0%: 7.25dB
0.1%: 8.79dB
0.01%: 9.73dB

Band41_15MHz_64QAM_MCH_2593MHz_RB_75_0_NTNV



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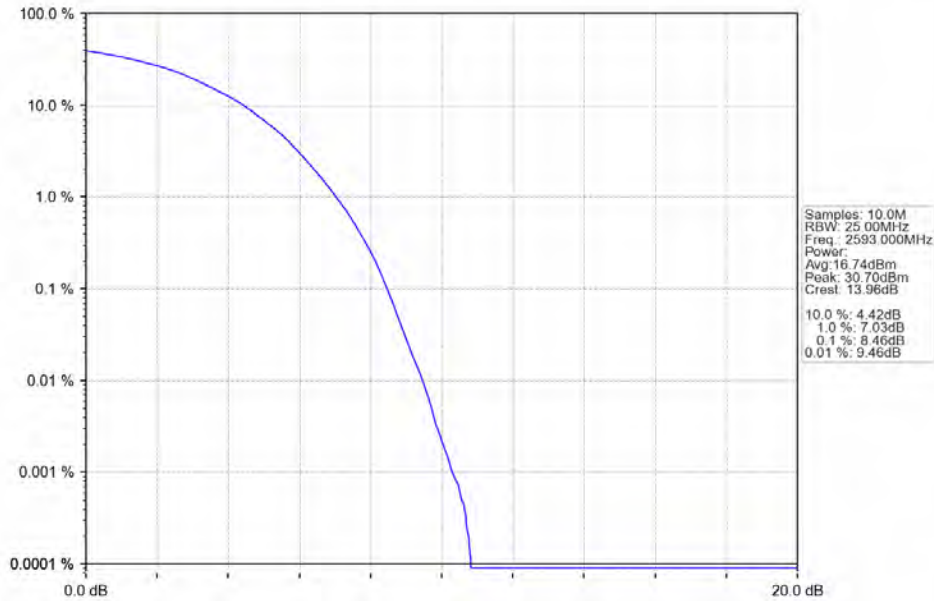
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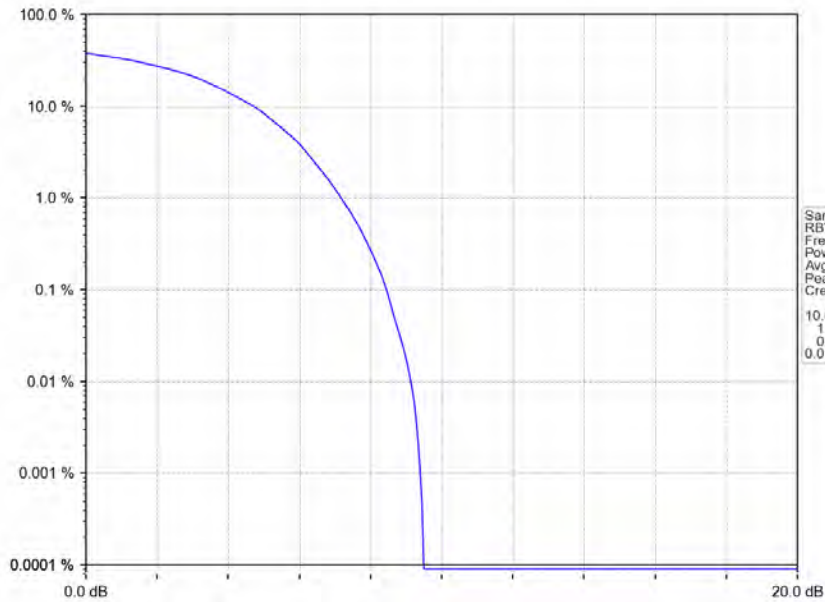
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Band41_15MHz_64QAM_HCH_2682.5MHz_RB_75_0_NTNV



Band41_15MHz_256QAM_LCH_2503.5MHz_RB_75_0_NTNV



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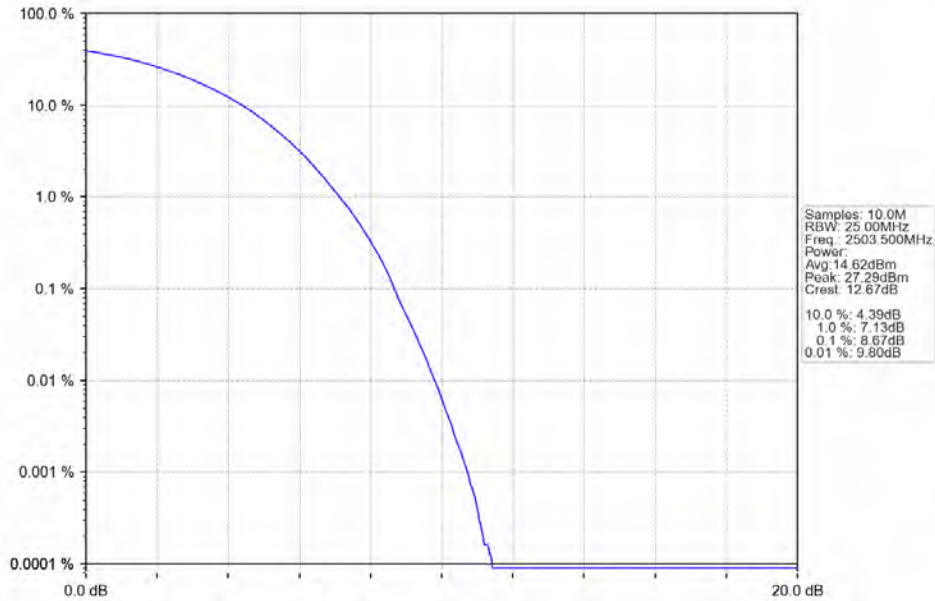
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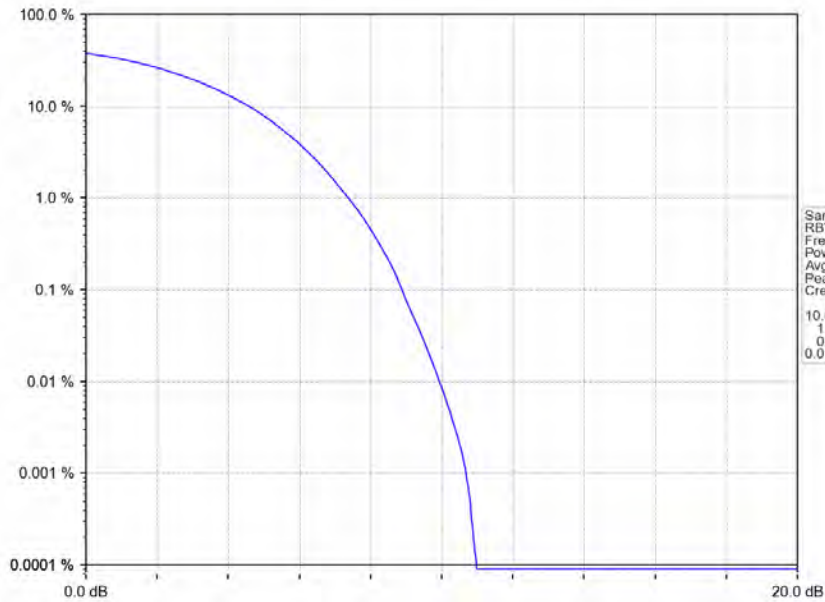
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Band41_15MHz_256QAM_MCH_2593MHz_RB_75_0_NTNV



Samples: 10.0M
RBW: 25.00MHz
Freq: 2593.000MHz
Power:
Avg: 14.95dBm
Peak: 28.18dBm
Crest: 13.23dB
10.0%: 4.58dB
1.0%: 7.37dB
0.1%: 8.88dB
0.01%: 9.93dB

Band41_15MHz_256QAM_HCH_2682.5MHz_RB_75_0_NTNV



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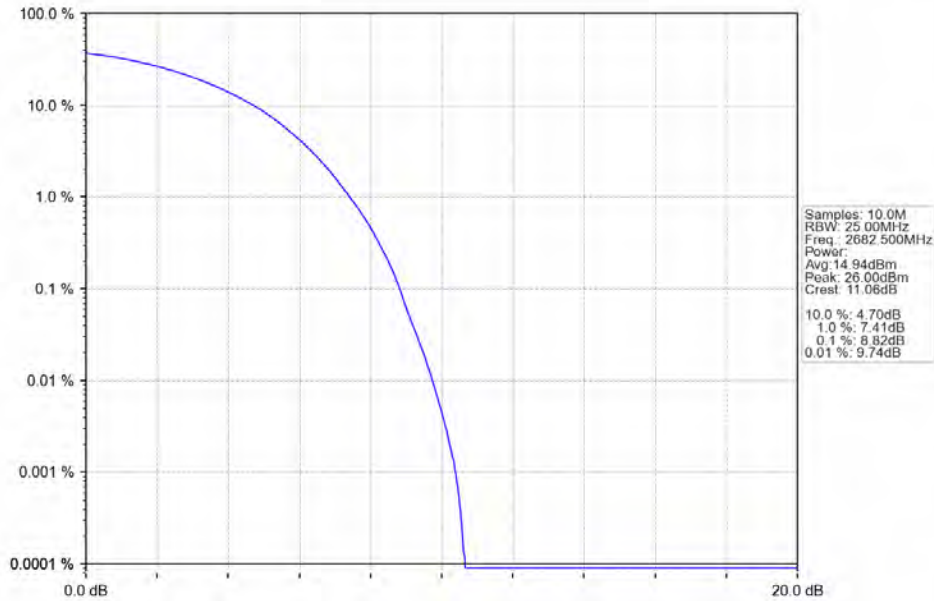
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5.4 B41_20MHz

5.4.1 Test Result

Band: 41 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2506	100	0	7.24	<=13	Pass
	2593	100	0	7.05	<=13	Pass
	2680	100	0	7.38	<=13	Pass
16QAM	2506	100	0	8.08	<=13	Pass
	2593	100	0	8.12	<=13	Pass
	2680	100	0	7.73	<=13	Pass
64QAM	2506	100	0	8.24	<=13	Pass
	2593	100	0	12.92	<=13	Pass
	2680	100	0	8.35	<=13	Pass
256QAM	2506	100	0	8.57	<=13	Pass
	2593	100	0	8.81	<=13	Pass
	2680	100	0	8.73	<=13	Pass



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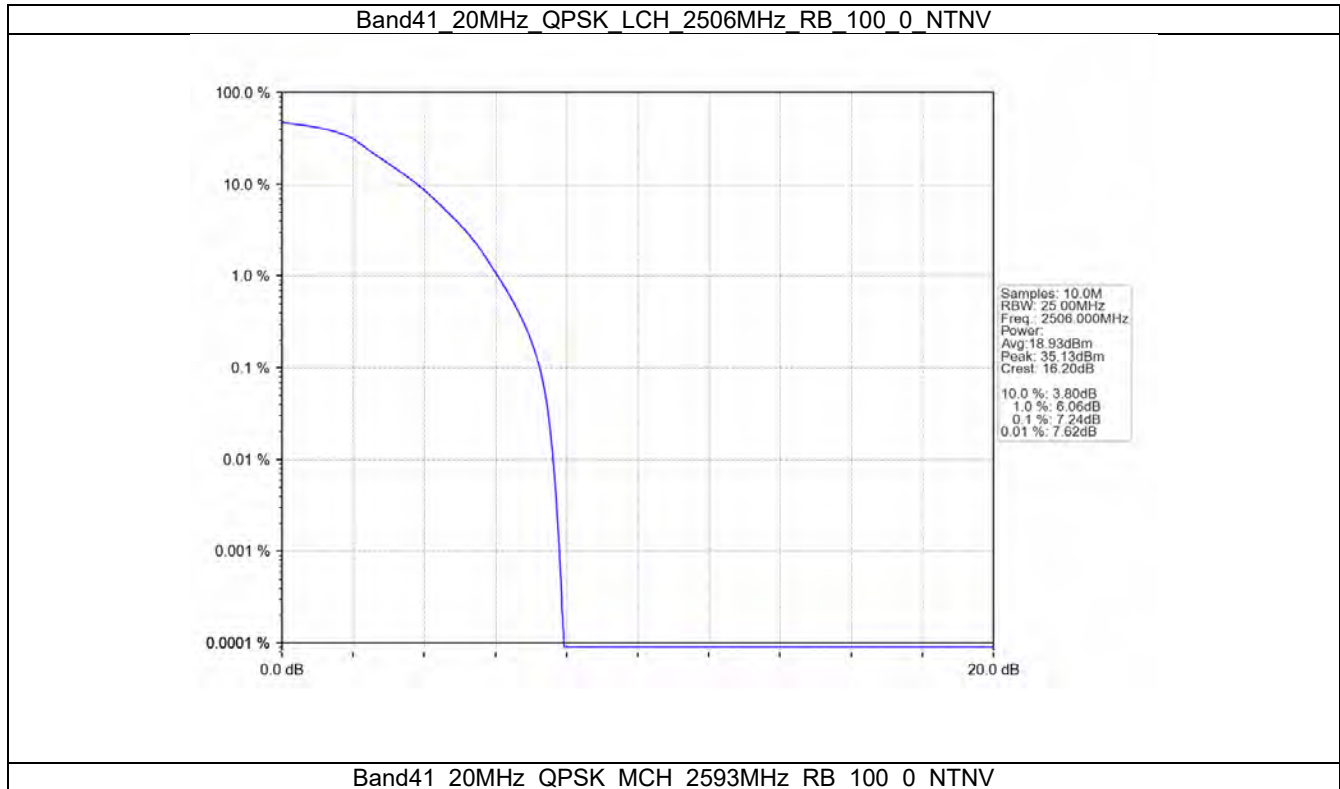
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5.4.2 Test Graph



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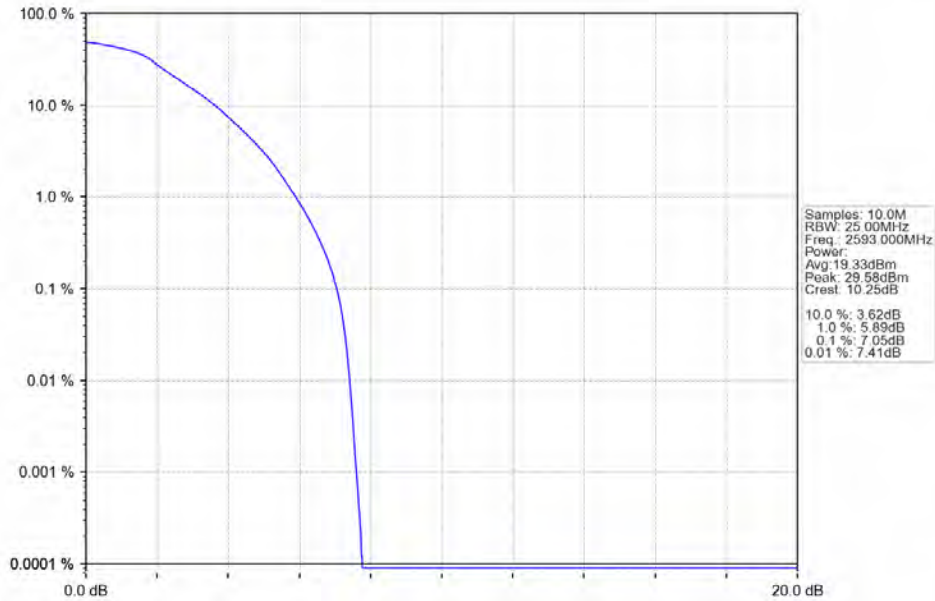
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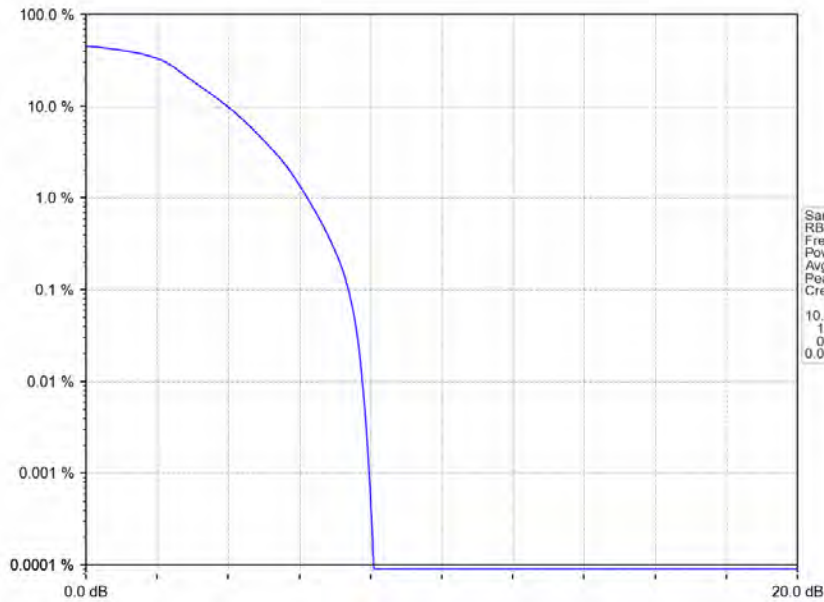
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Band41 20MHz QPSK HCH 2680MHz RB 100 0 NTN



Samples: 10.0M
RBW: 25.00MHz
Freq: 2680.000MHz
Power:
Avg: 18.91dBm
Peak: 36.71dBm
Crest: 17.80dB
10.0%: 3.97dB
1.0%: 6.22dB
0.1%: 7.38dB
0.01%: 7.77dB

Band41 20MHz 16QAM LCH 2506MHz RB 100 0 NTN



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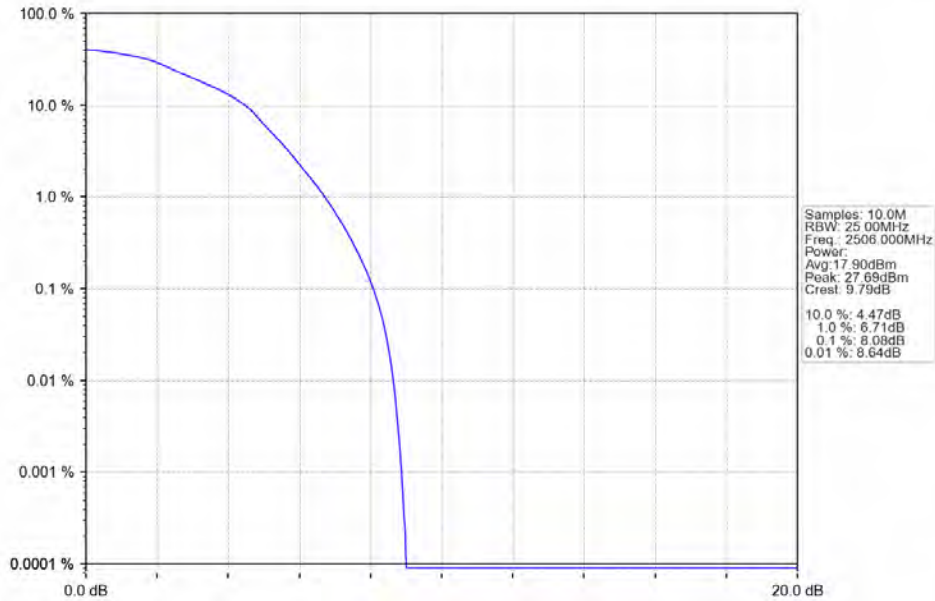
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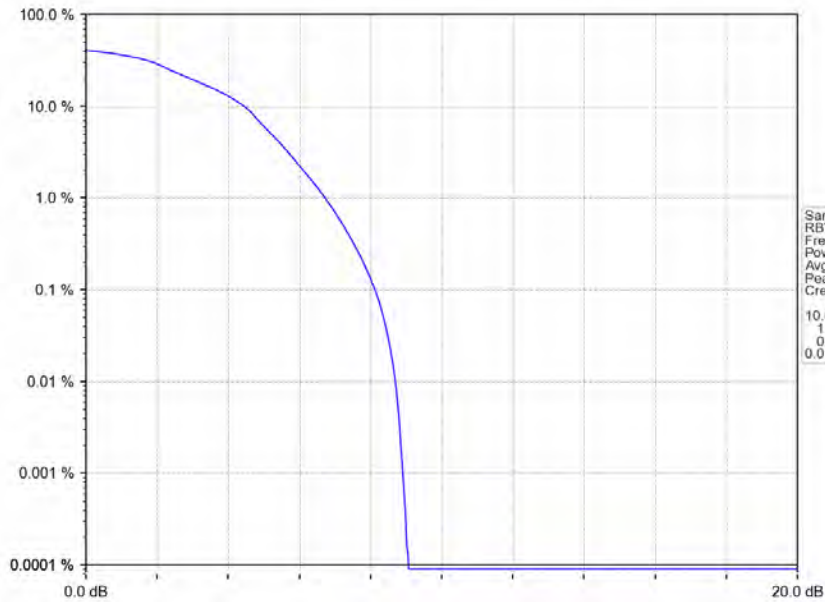
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Band41_20MHz_16QAM_MCH_2593MHz_RB_100_0_NTNV



Band41_20MHz_16QAM_HCH_2680MHz_RB_100_0_NTNV



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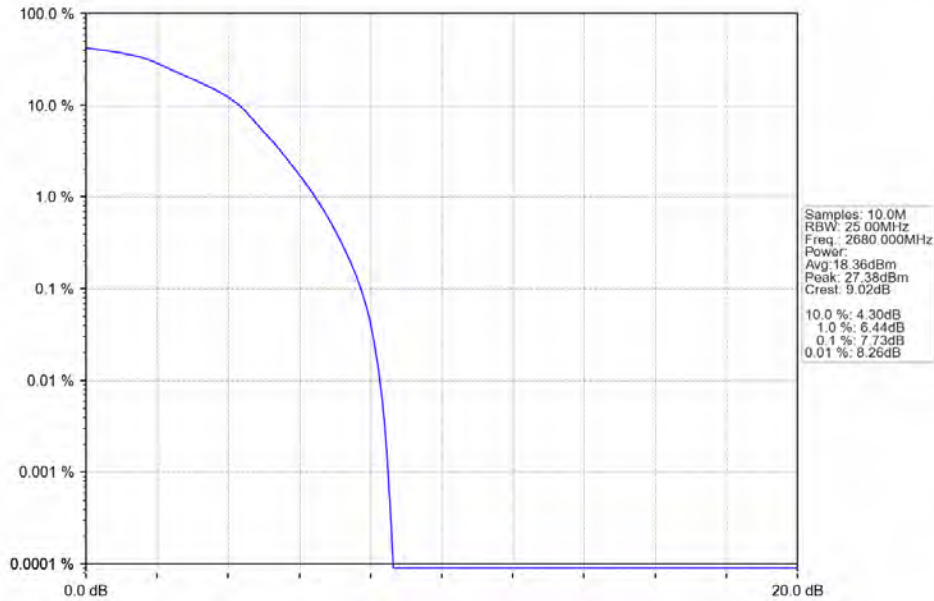
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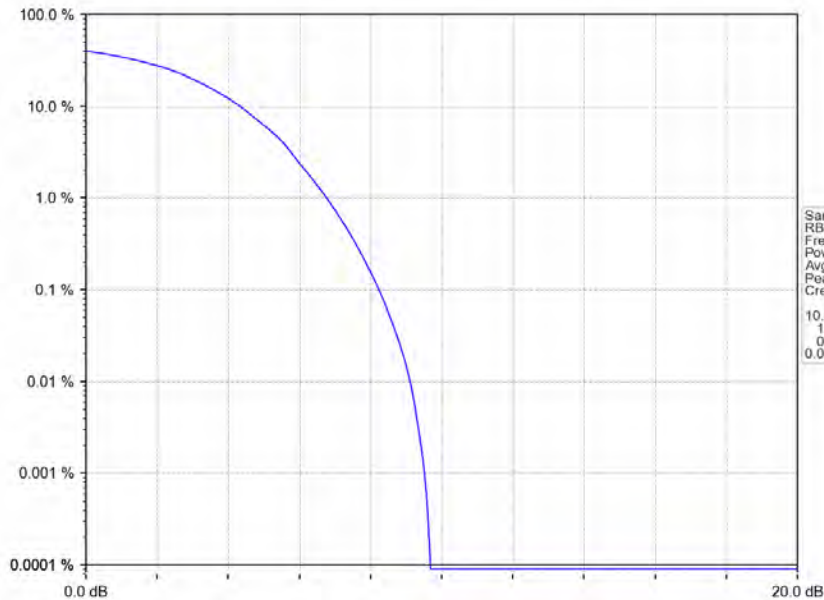
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Band41_20MHz_64QAM_LCH_2506MHz_RB_100_0_NTNV



Band41_20MHz_64QAM_MCH_2593MHz_RB_100_0_NTNV



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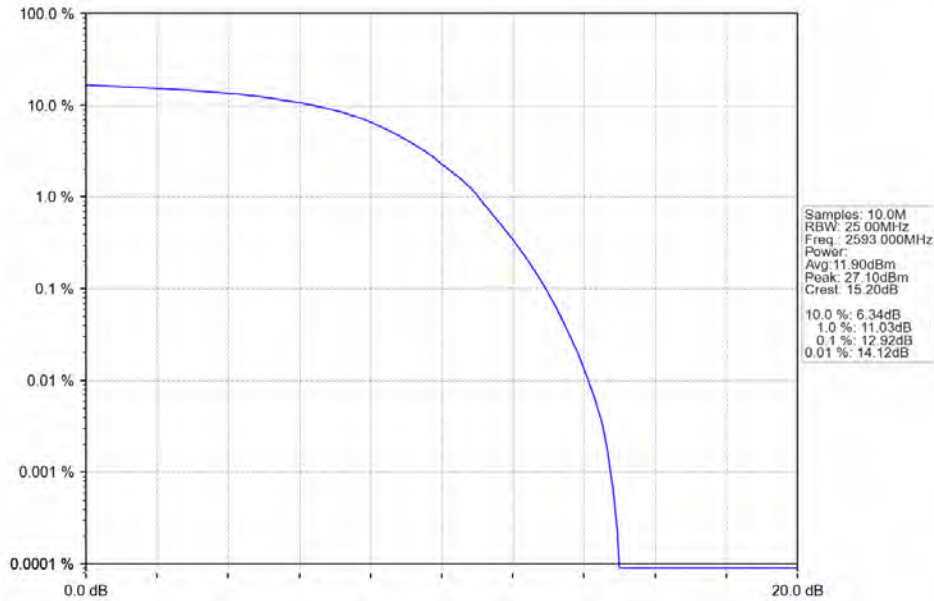
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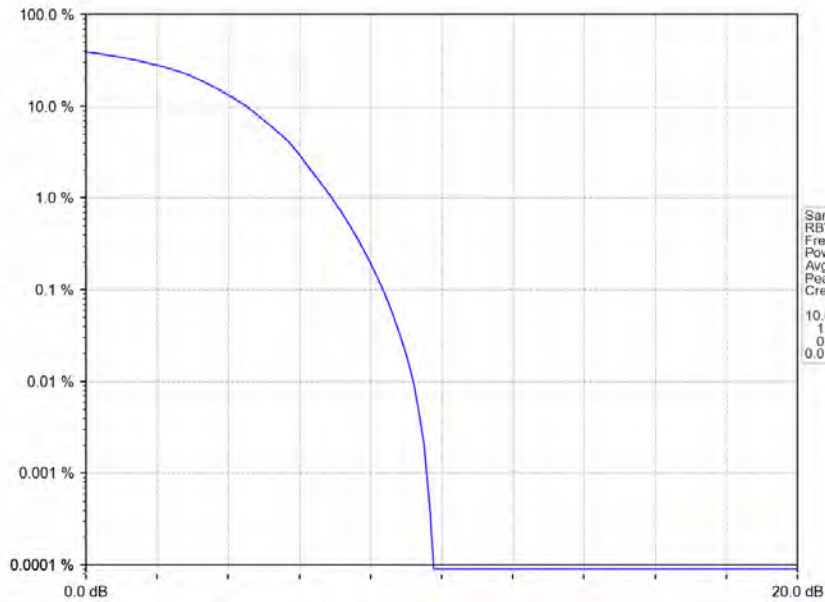
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Band41_20MHz_256QAM_LCH_2506MHz_RB_100_0_NTNV



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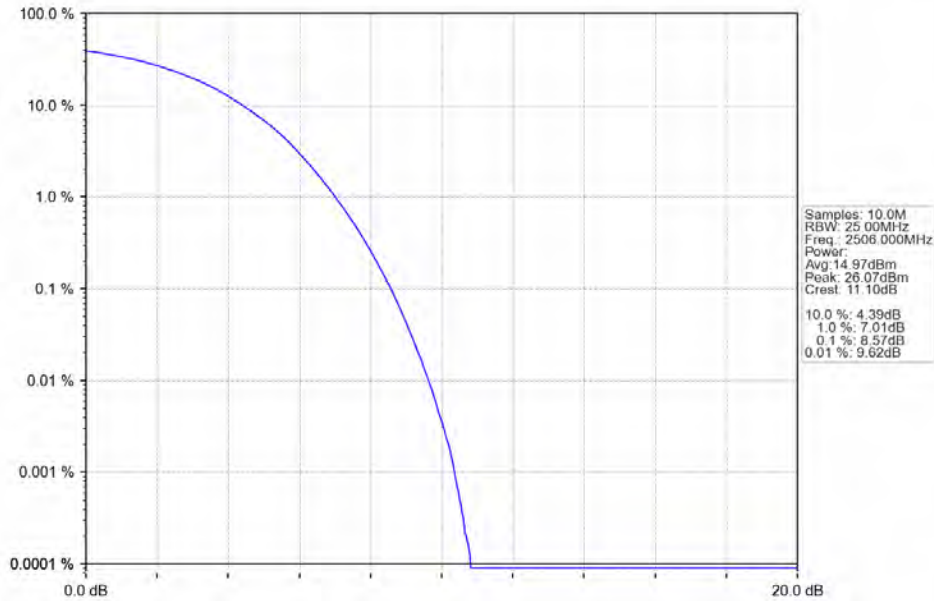
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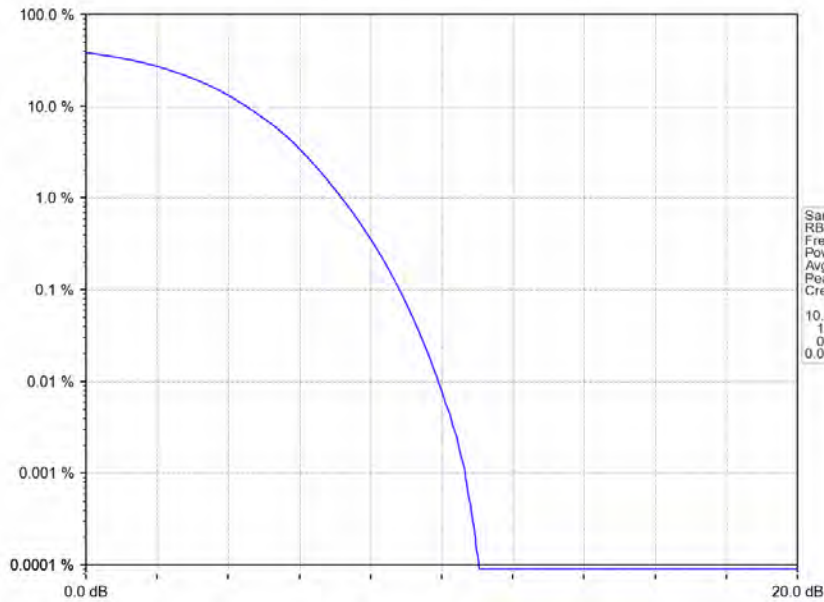
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Band41 20MHz 256QAM MCH 2593MHz RB 100 0 NTN



Band41 20MHz 256QAM HCH 2680MHz RB 100 0 NTN



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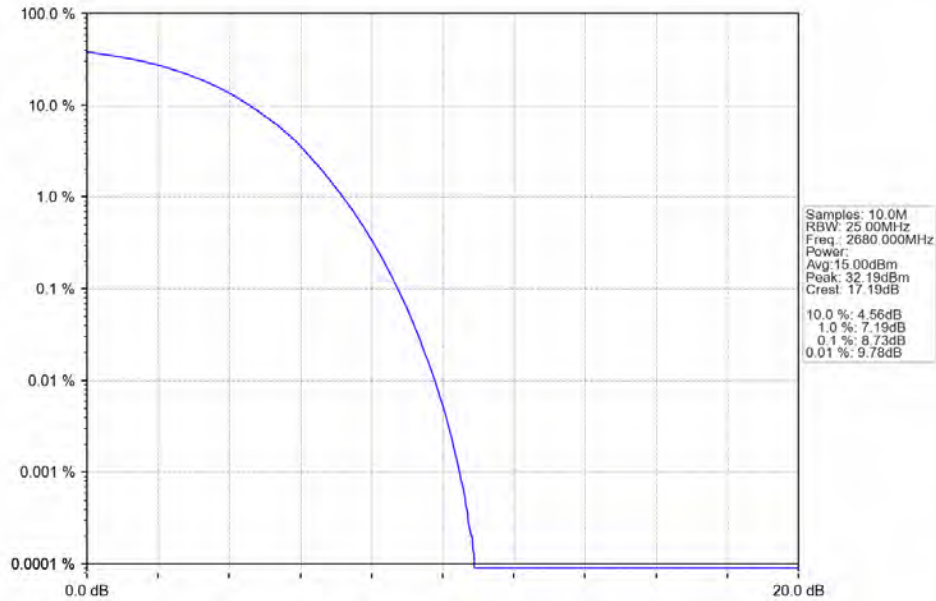
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6. Spurious Emission & Band Edges

6.1 B41_5MHz

6.1.1 Test Result

Band: 41 / Bandwidth: 5MHz / NTNV						
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



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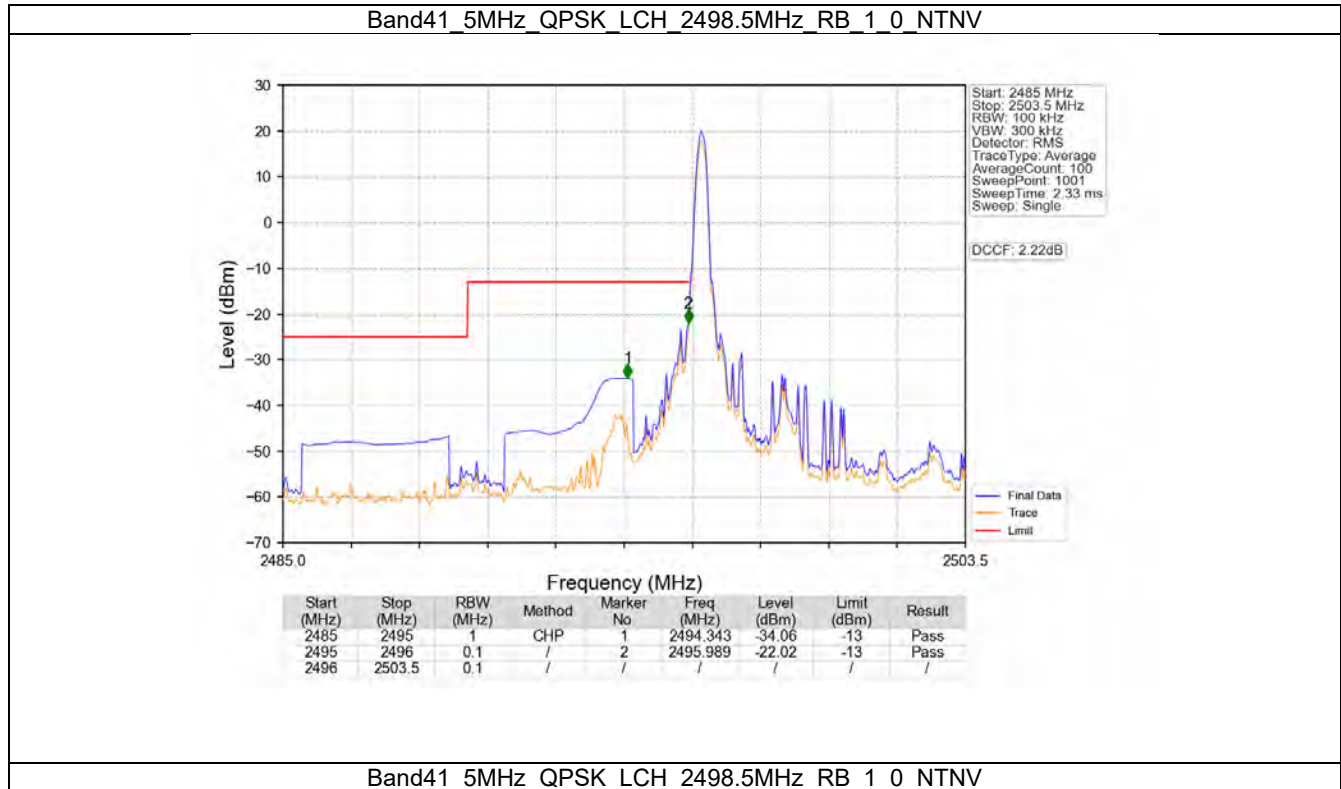
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6.1.2 Test Graph



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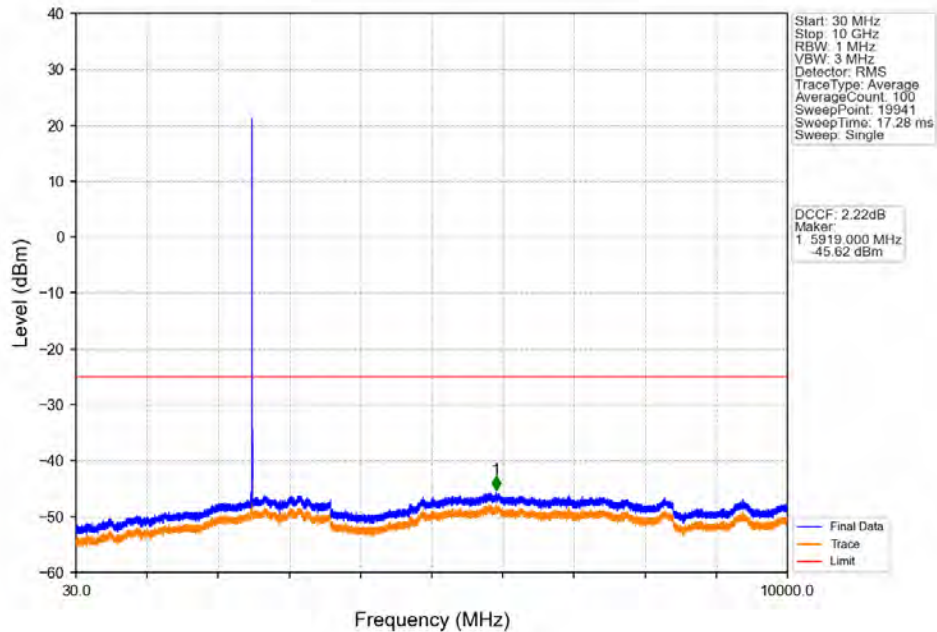
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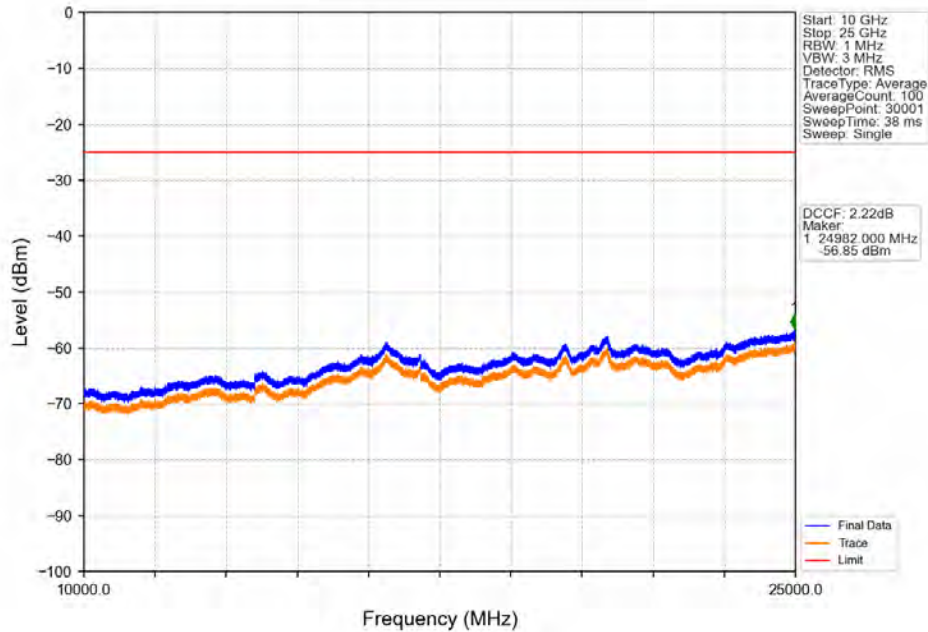
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Band41_5MHz_QPSK_LCH_2498.5MHz_RB_1_0_NTNV



Band41_5MHz_QPSK_LCH_2498.5MHz_RB_1_0_NTNV



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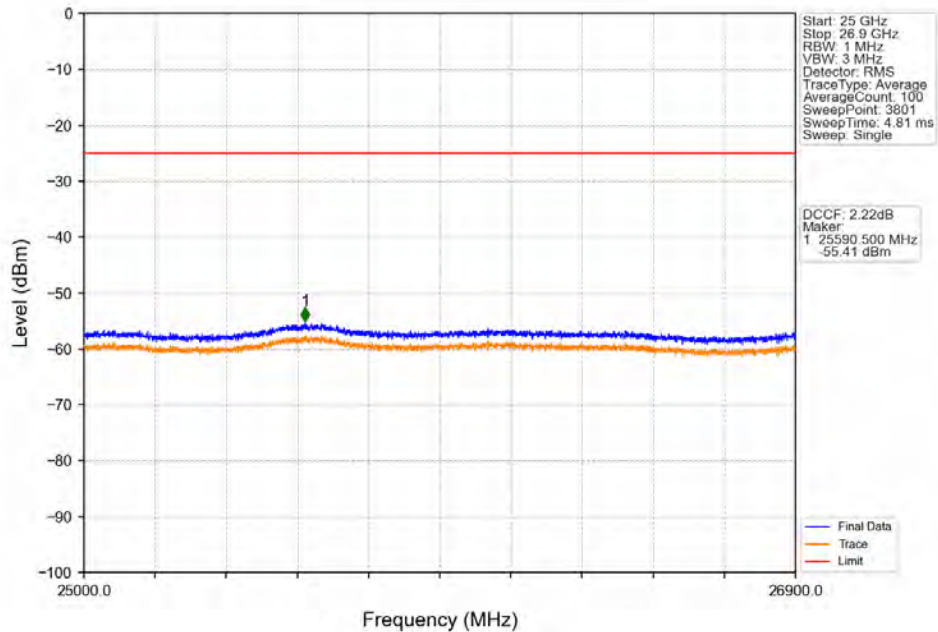
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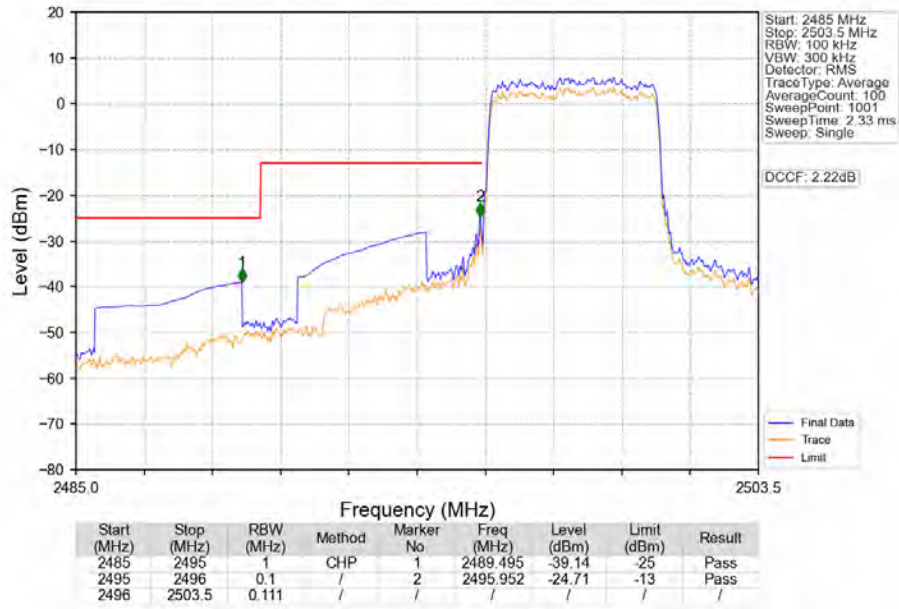
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Band41_5MHz_QPSK_MCH_2593MHz_RB_1_0_NTNV



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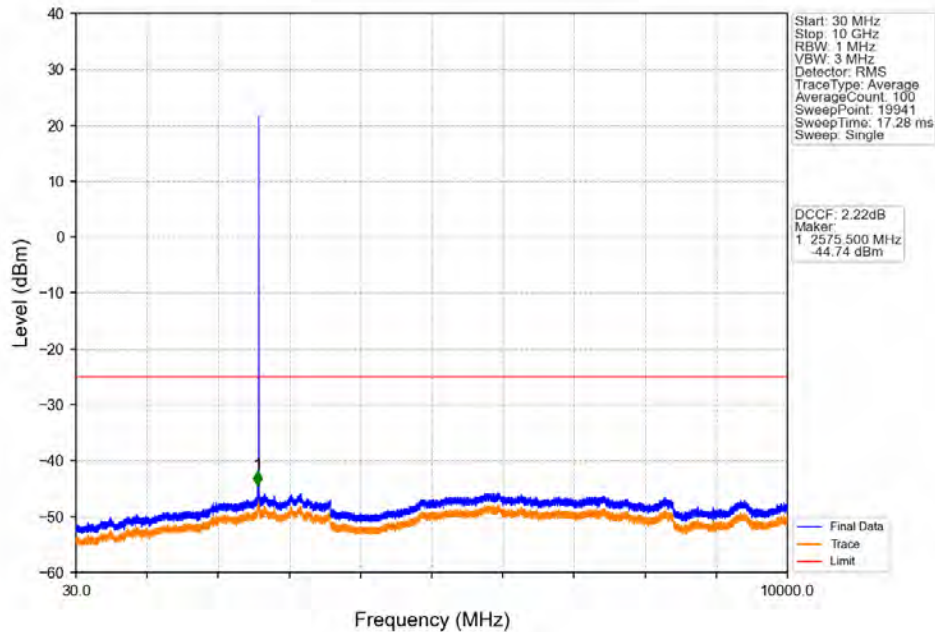
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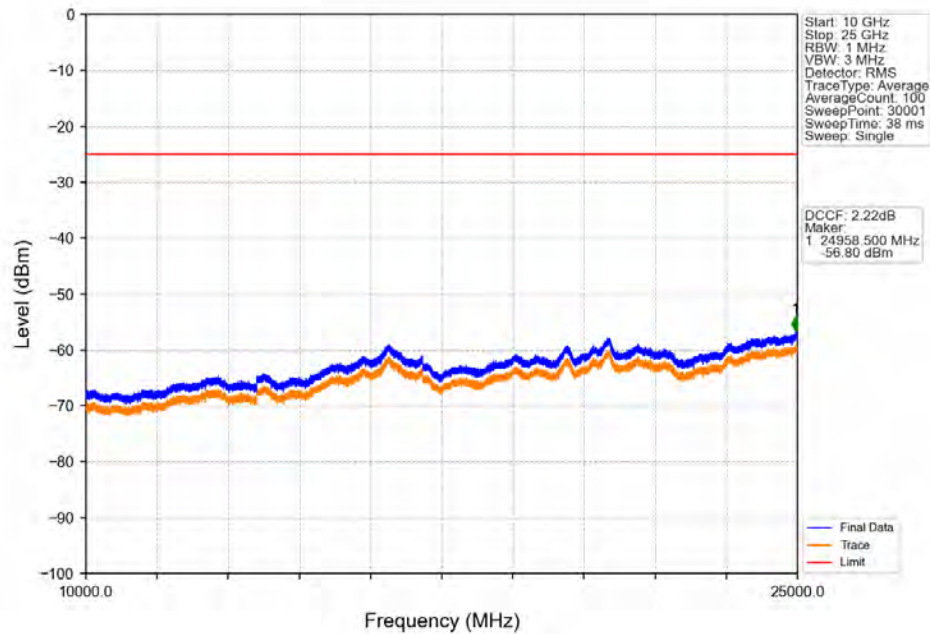
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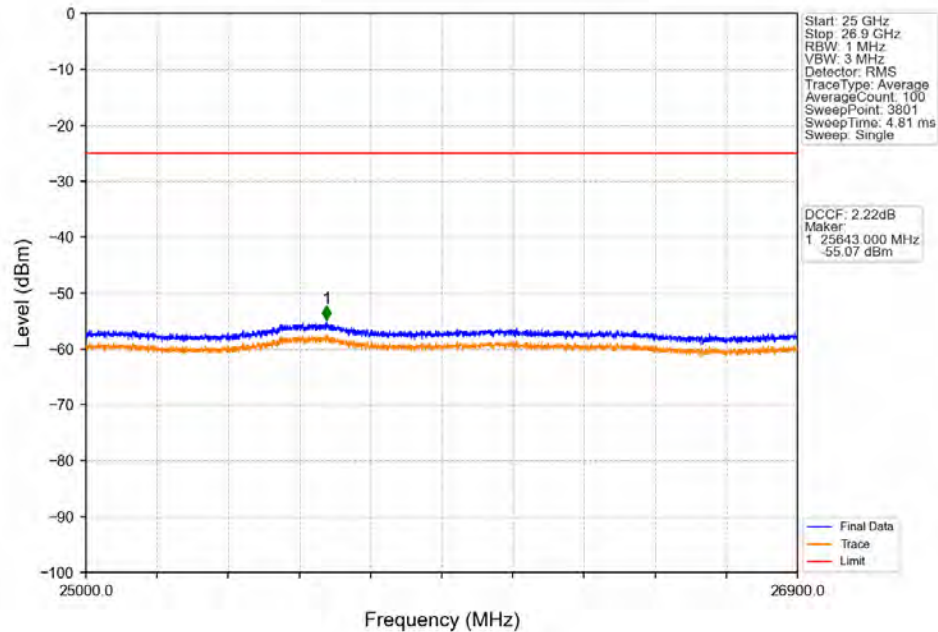
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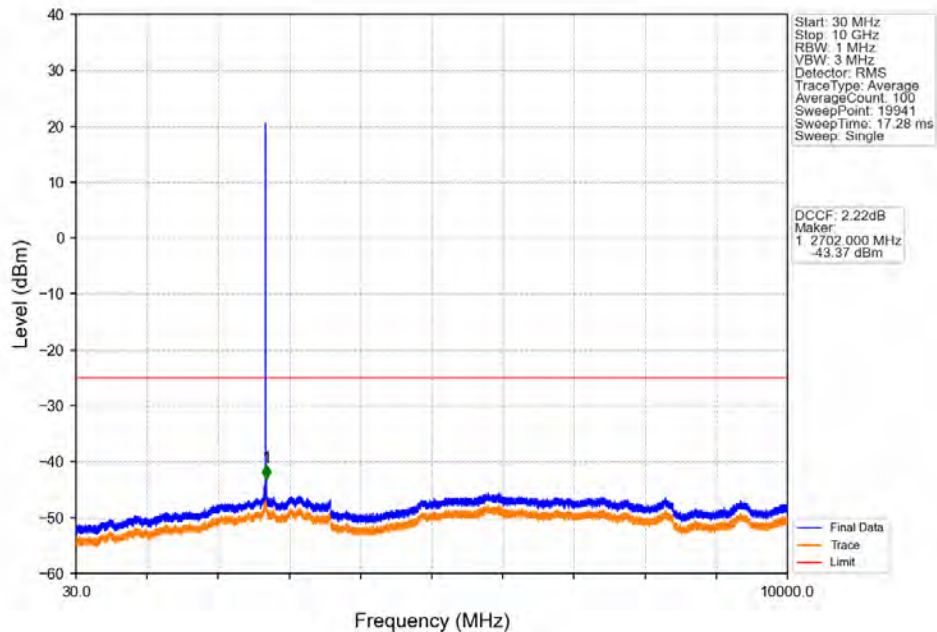
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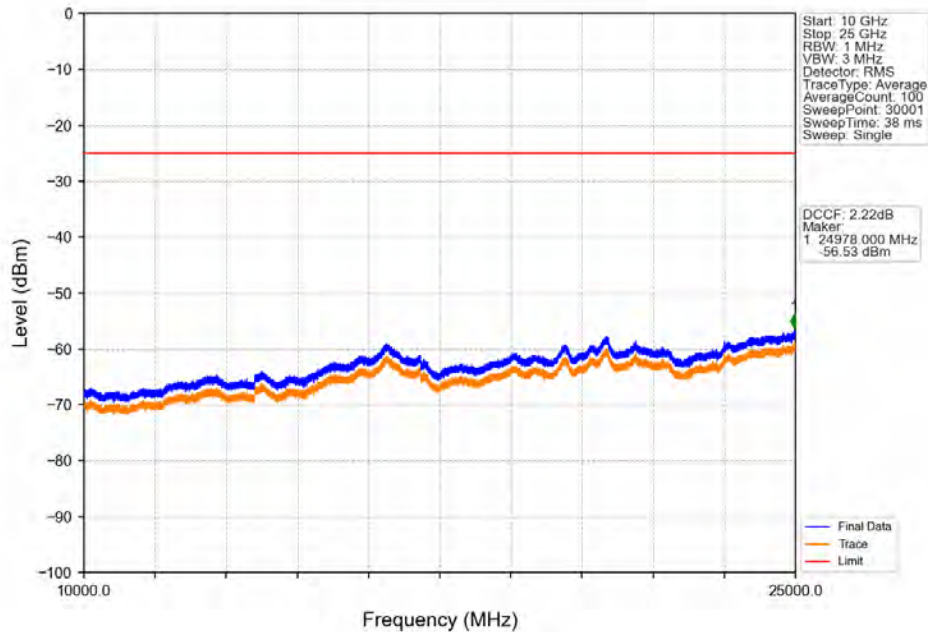
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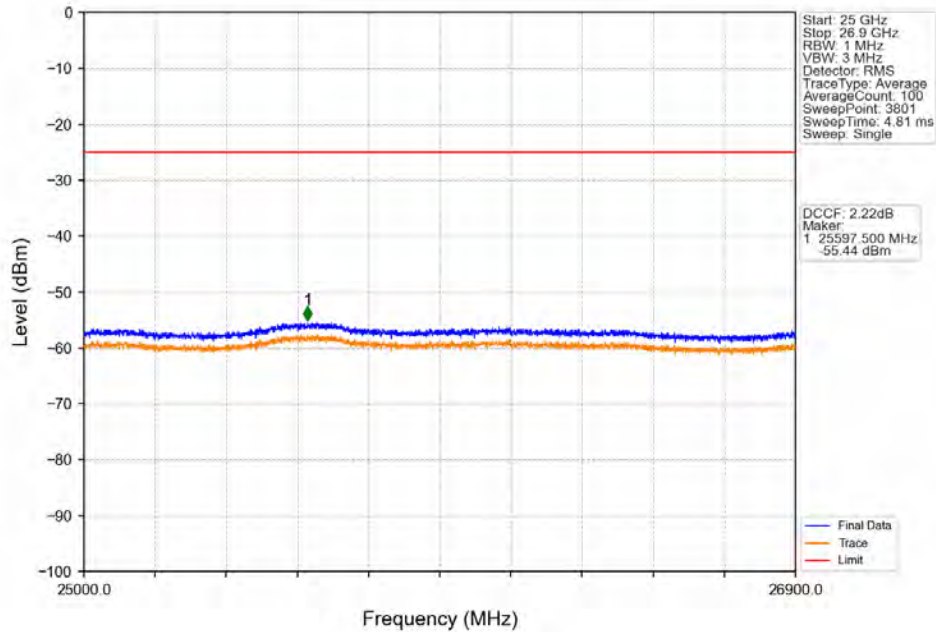
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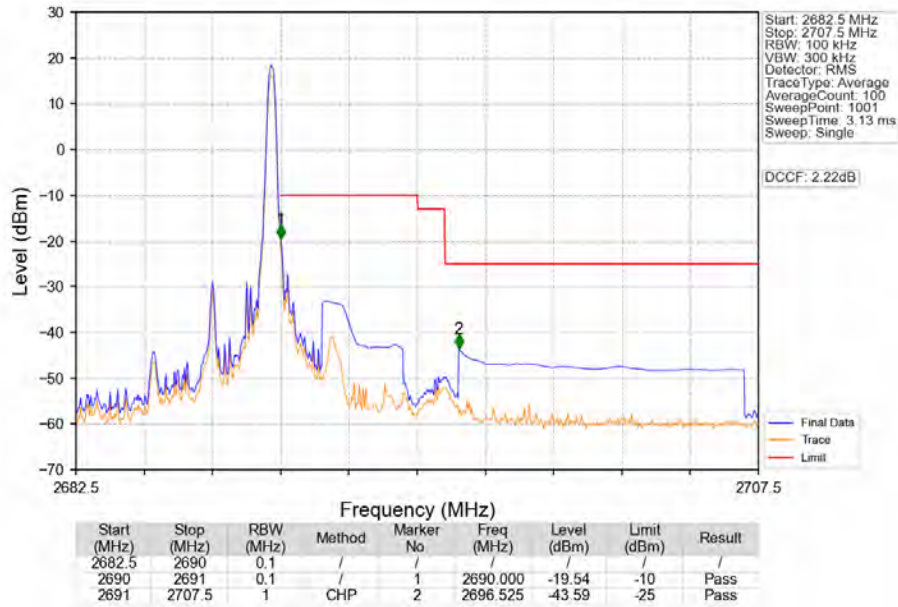
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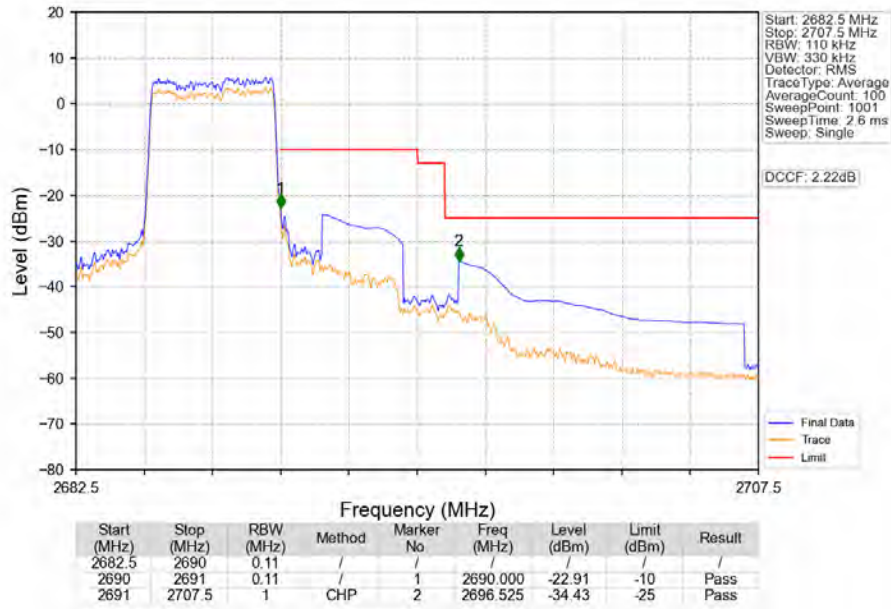
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Band41_5MHz_QPSK_HCH_2687.5MHz_RB_25_0_NTNV



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6.2 B41_10MHz

6.2.1 Test Result

Band: 41 / Bandwidth: 10MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	2501	1	0	Refer To Test Graph	Pass
		50	0	Refer To Test Graph	Pass
	2593	1	0	Refer To Test Graph	Pass
	2685	1	0	Refer To Test Graph	Pass
			49	Refer To Test Graph	Pass
		50	0	Refer To Test Graph	Pass



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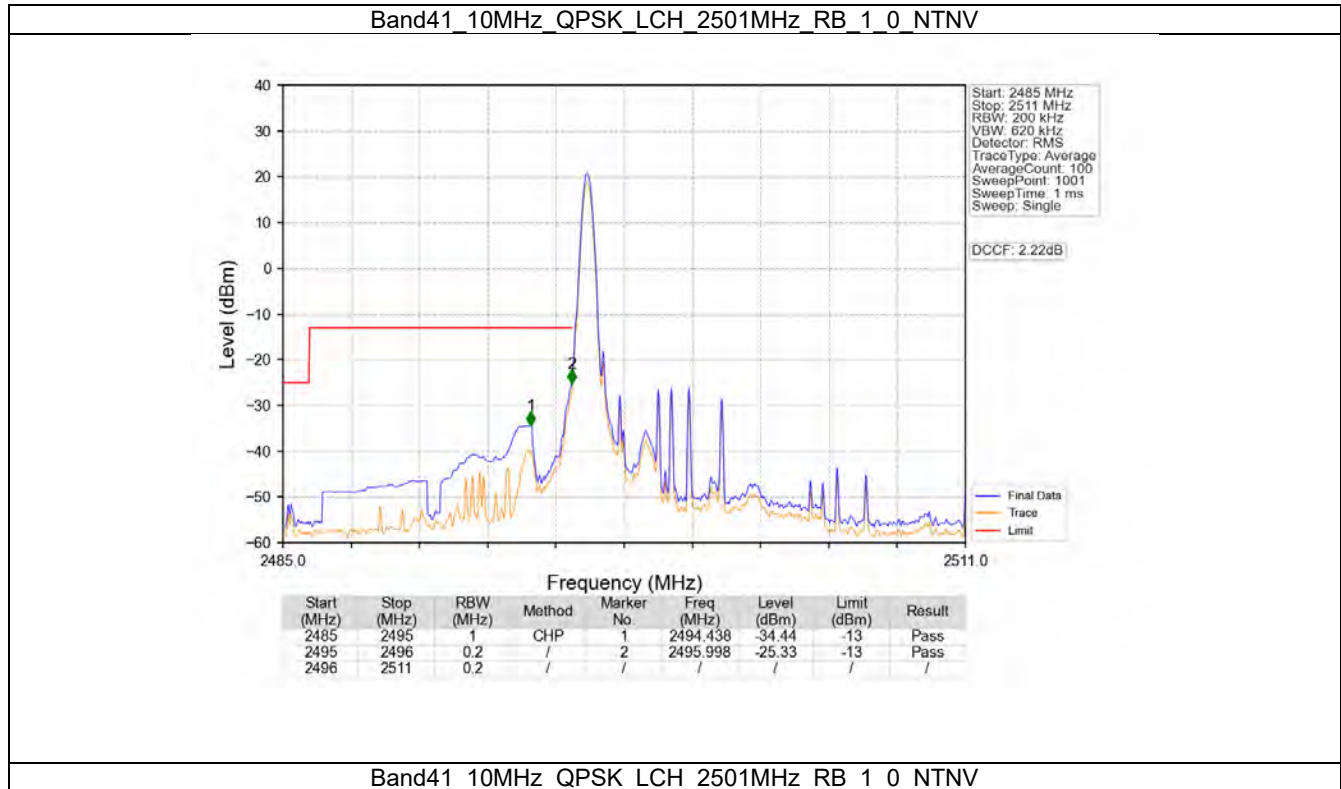
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6.2.2 Test Graph



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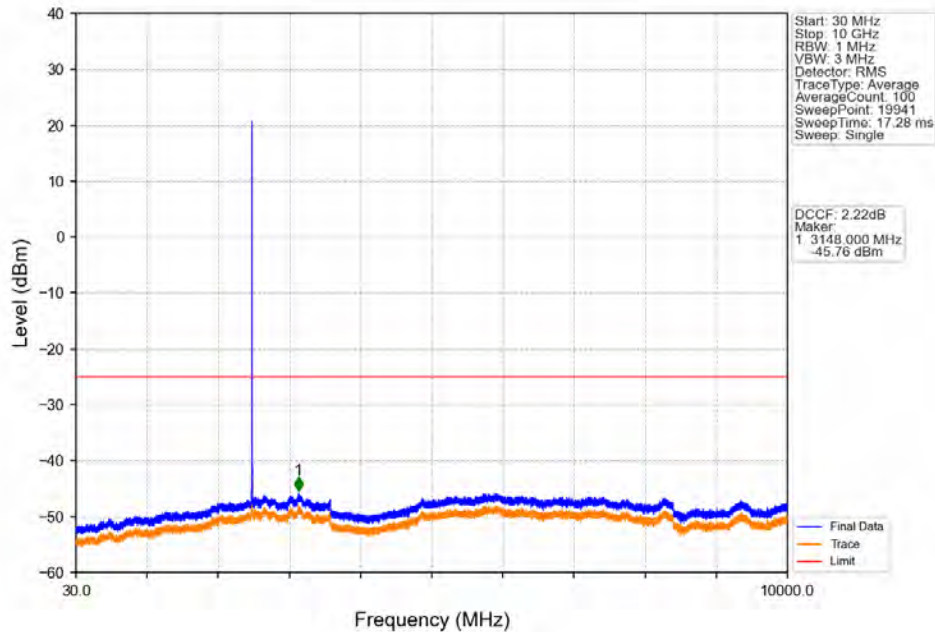
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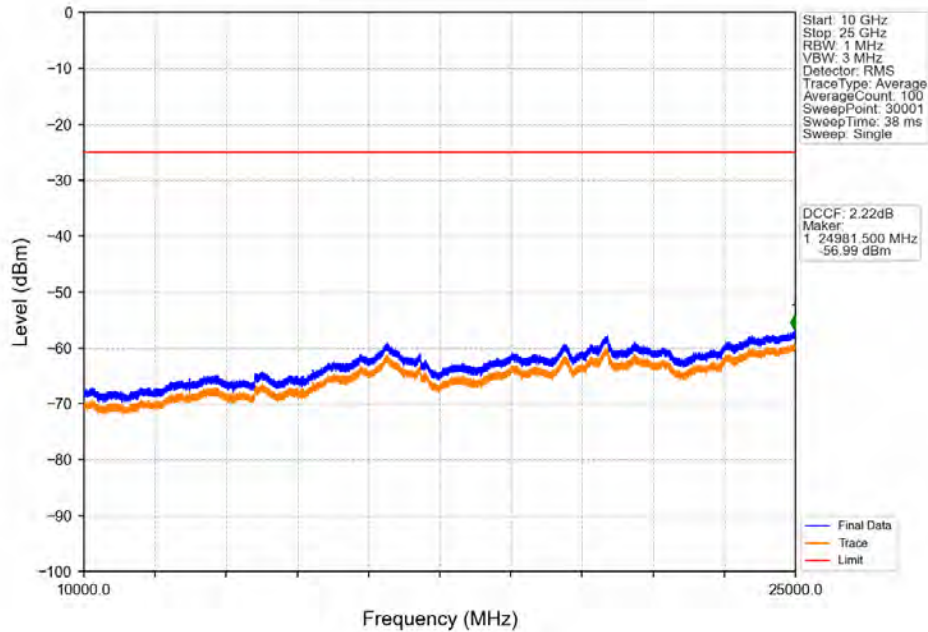
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Band41 10MHz QPSK LCH 2501MHz RB 1 0 NTNV



Band41 10MHz QPSK LCH 2501MHz RB 1 0 NTNV



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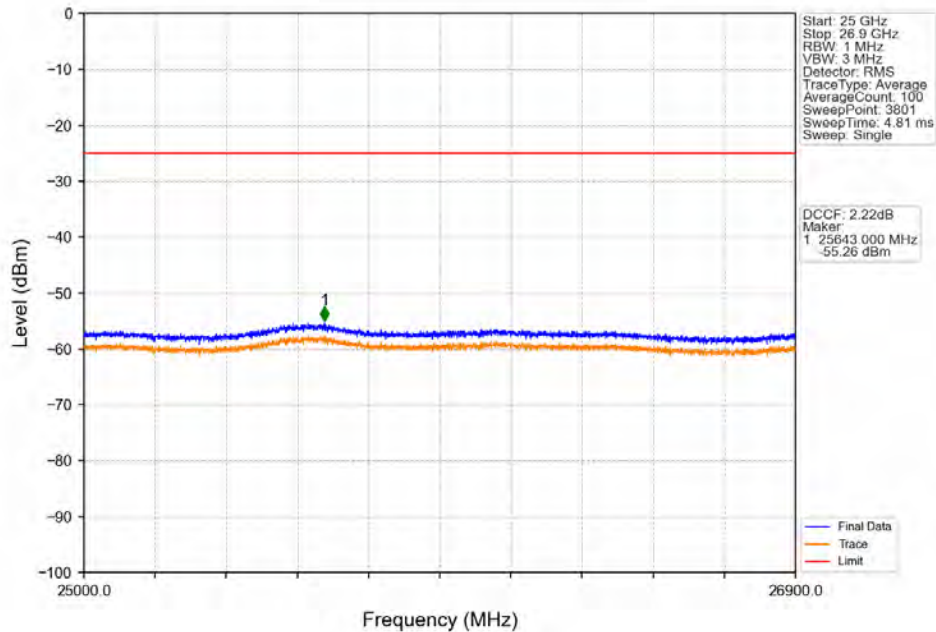
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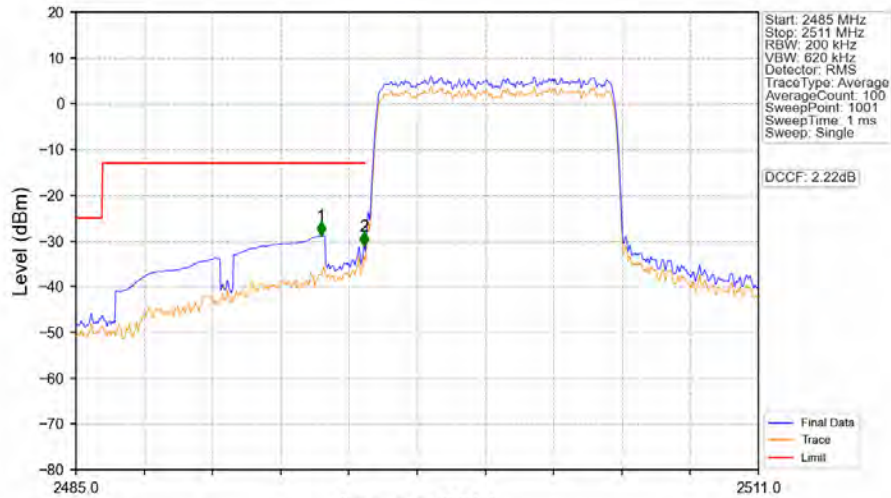
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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2495	1	CHP	1	2484.334	-28.89	-13	Pass
2495	2496	0.2	/	2	2495.972	-31.12	-13	Pass
2496	2511	0.206	/	/	/	/	/	/

Band41_10MHz_QPSK_MCH_2593MHz_RB_1_0_NTNV



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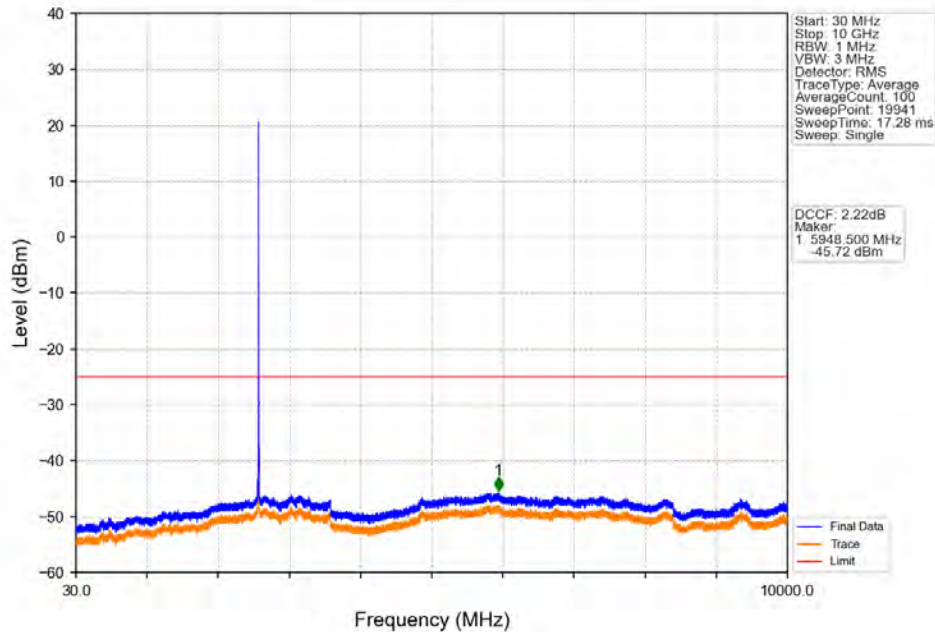
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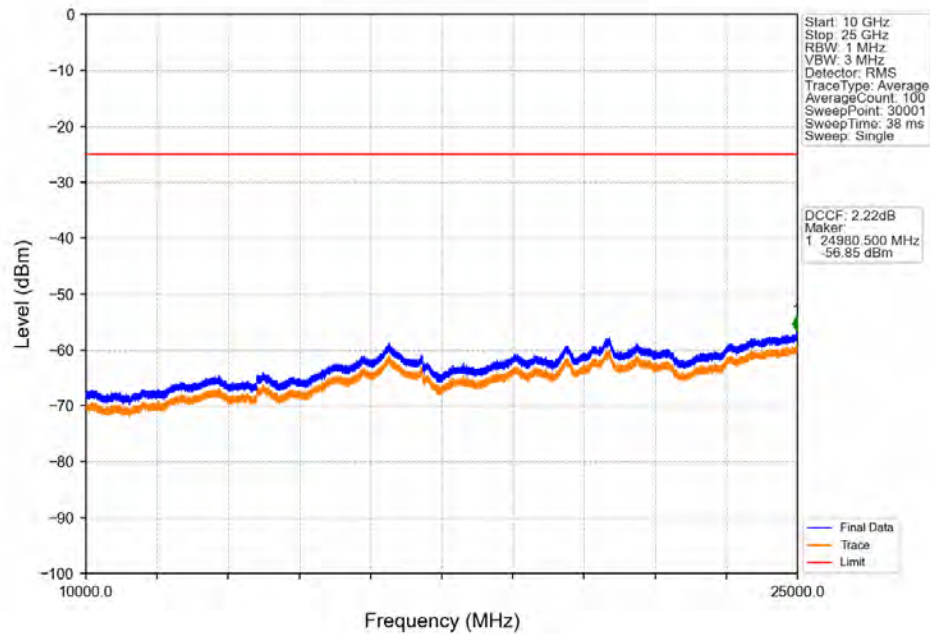
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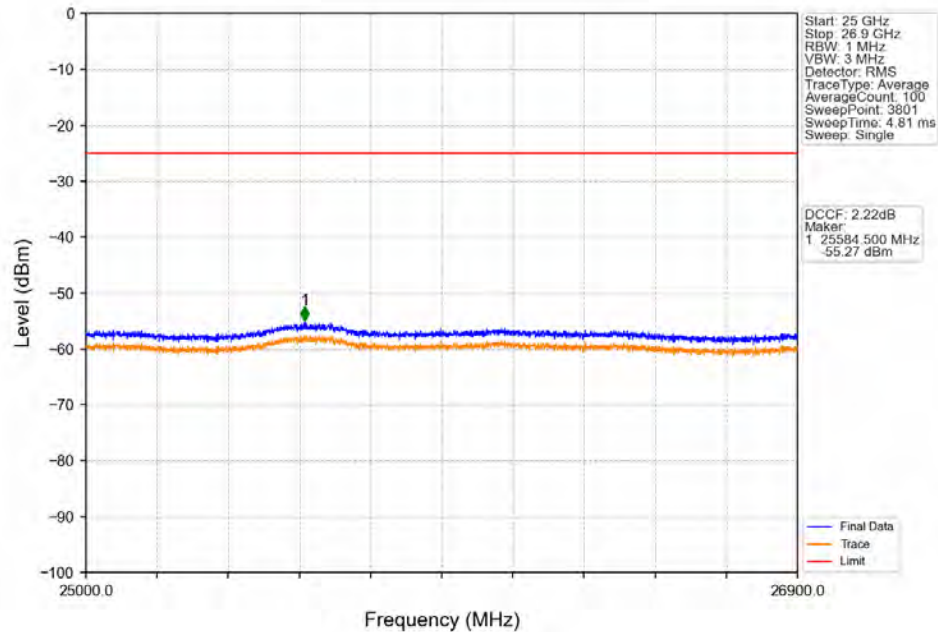
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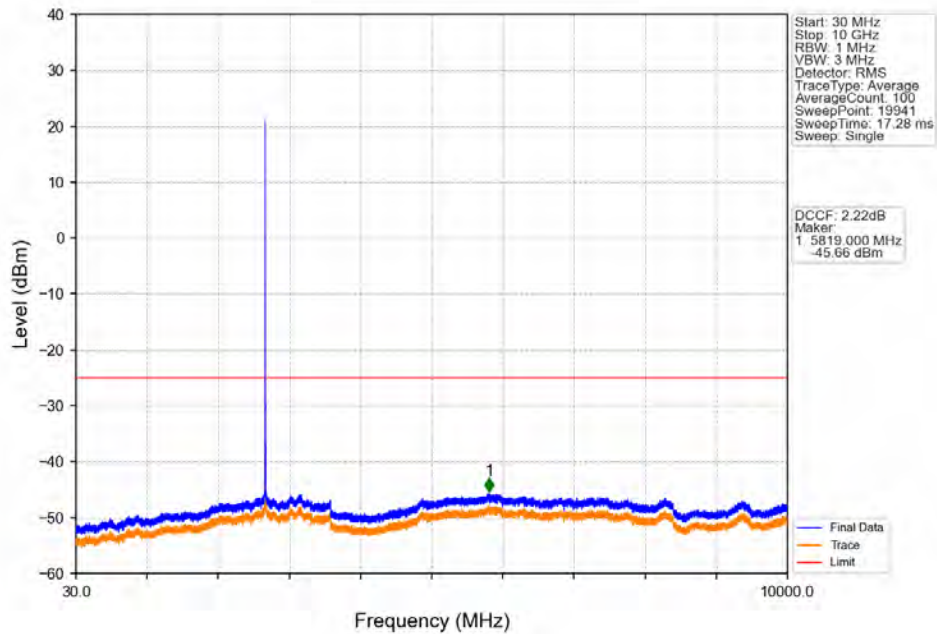
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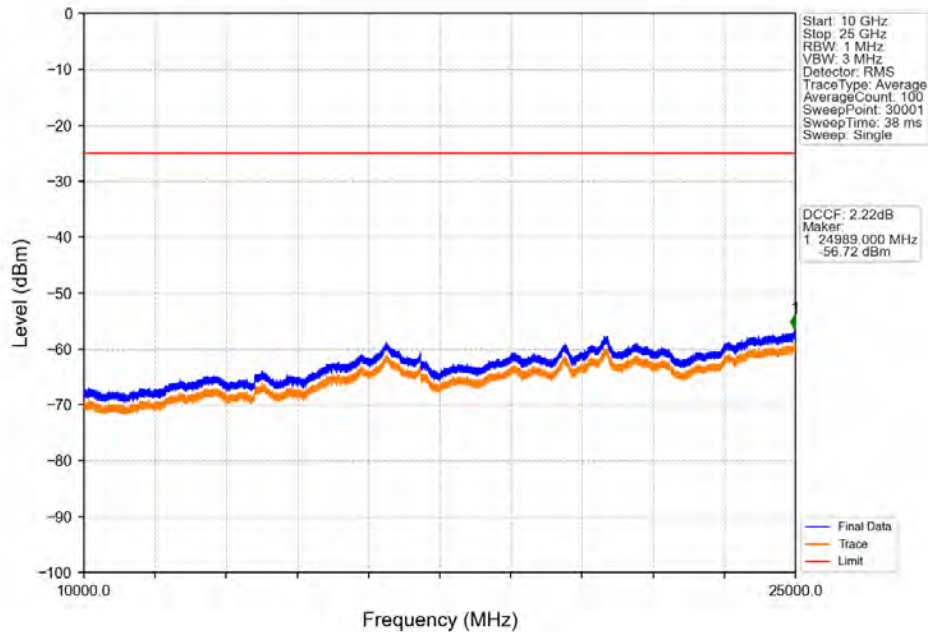
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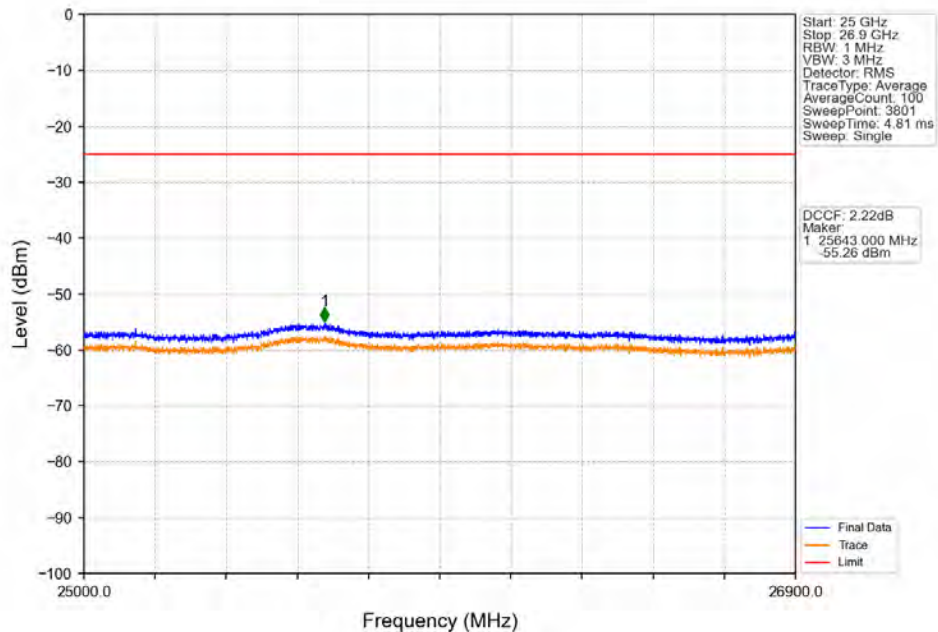
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Band41_10MHz_QPSK_HCH_2685MHz_RB_1_0_NTNV



Band41_10MHz_QPSK_HCH_2685MHz_RB_1_49_NTNV



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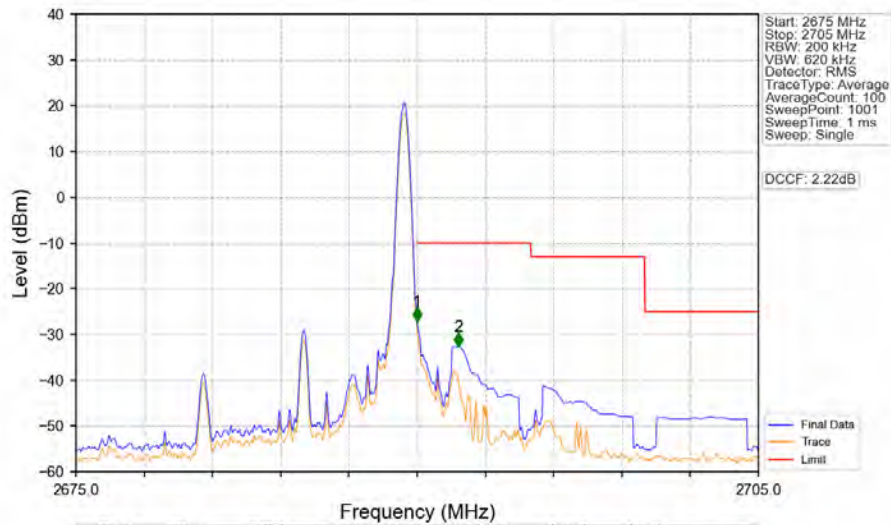
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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2675	2690	0.2	/	1	2690.000	-27.26	-10	Pass
2690	2691	0.2	/	2	2691.800	-32.73	-10	Pass
2691	2705	1	CHP					



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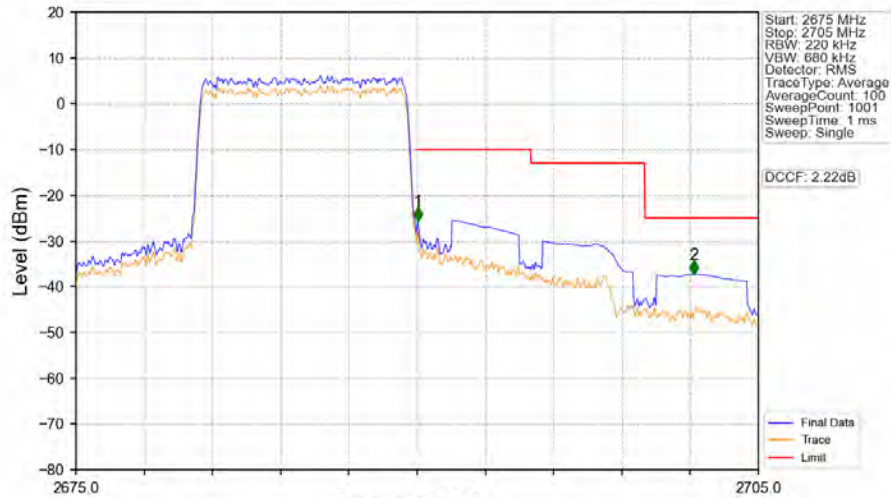
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Band41_10MHz_QPSK_HCH_2685MHz_RB_50_0_NTNV



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6.3 B41_15MHz

6.3.1 Test Result

Band: 41 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2503.5	1	0	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
	2593	1	0	Refer To Test Graph		Pass
	2682.5	1	0	Refer To Test Graph		Pass
			74	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass



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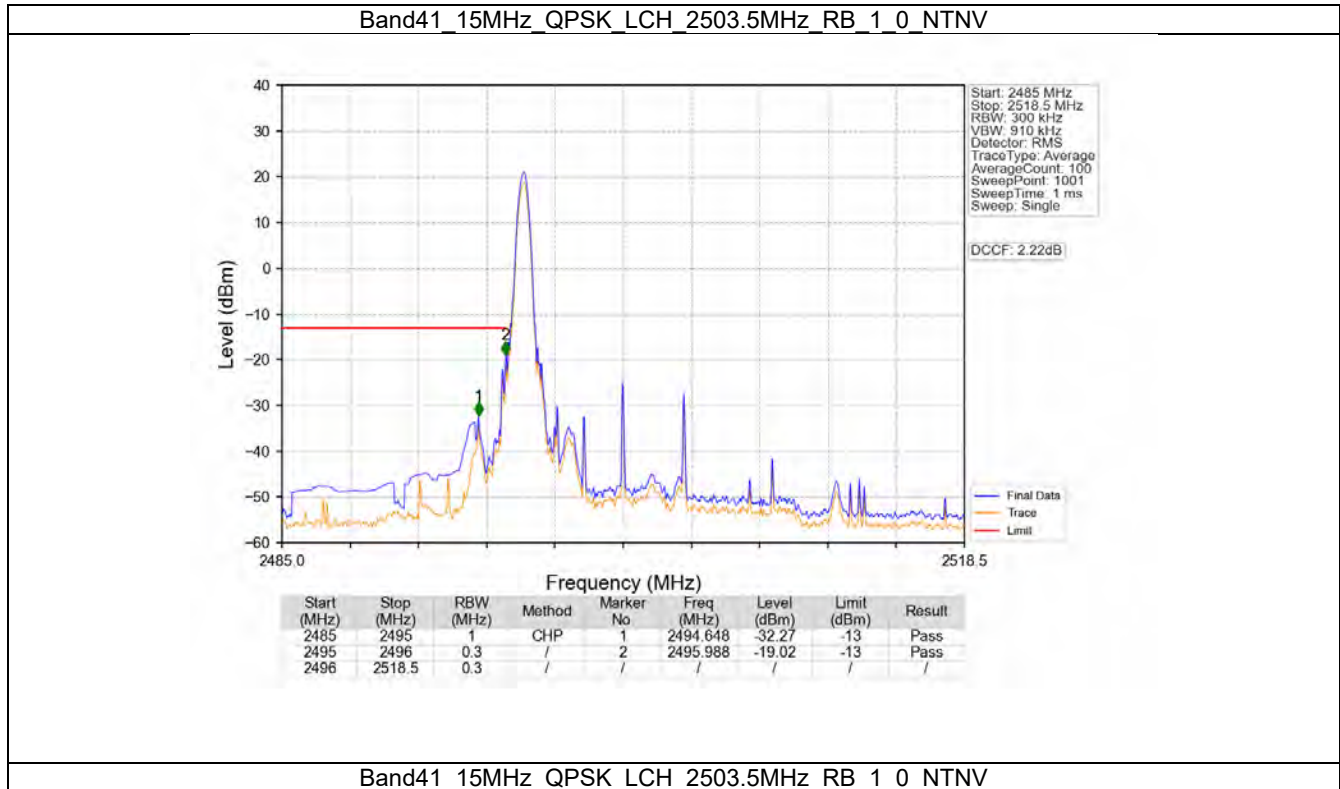
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6.3.2 Test Graph



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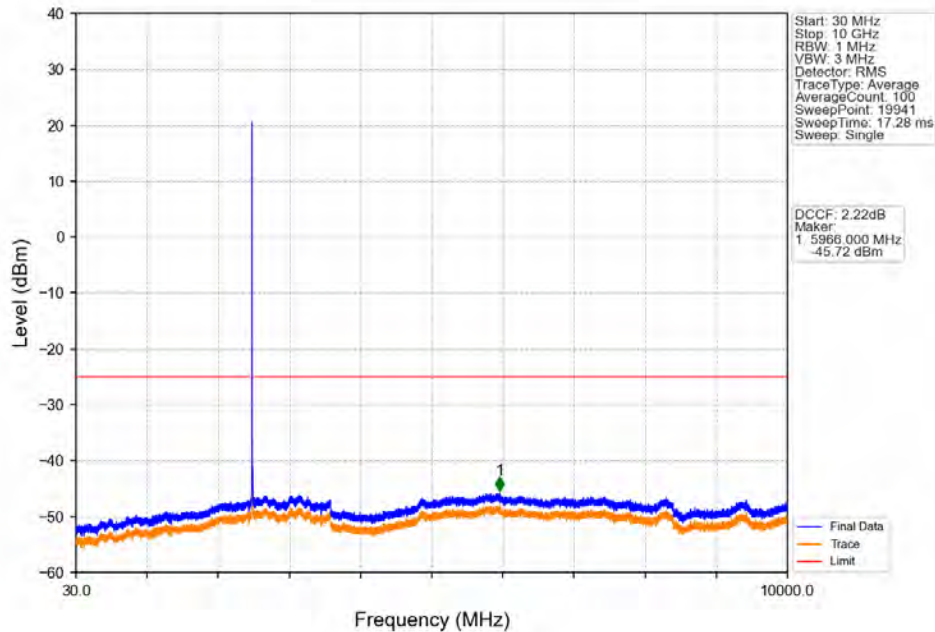
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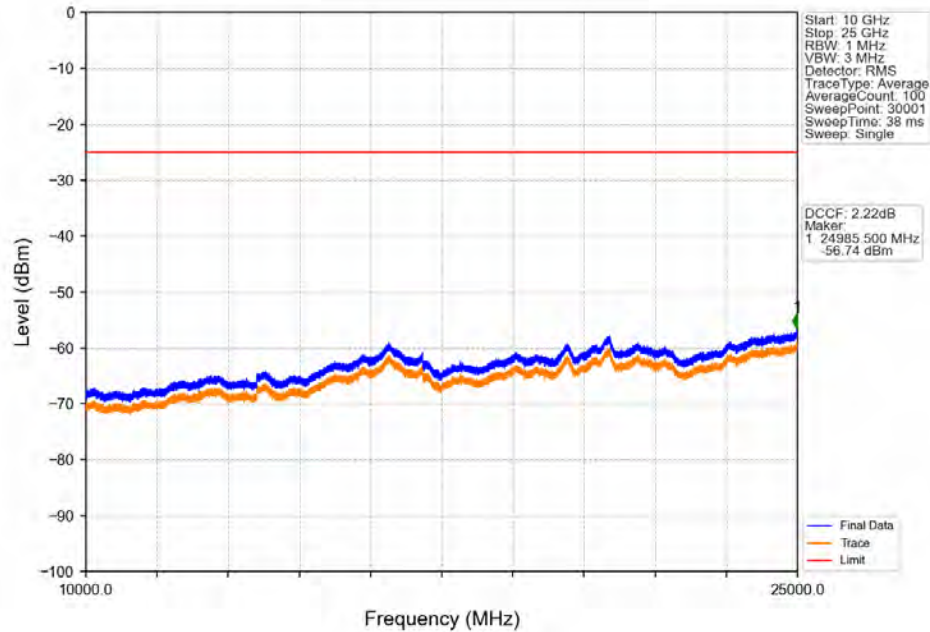
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Band41_15MHz_QPSK_LCH_2503.5MHz_RB_1_0_NTNV



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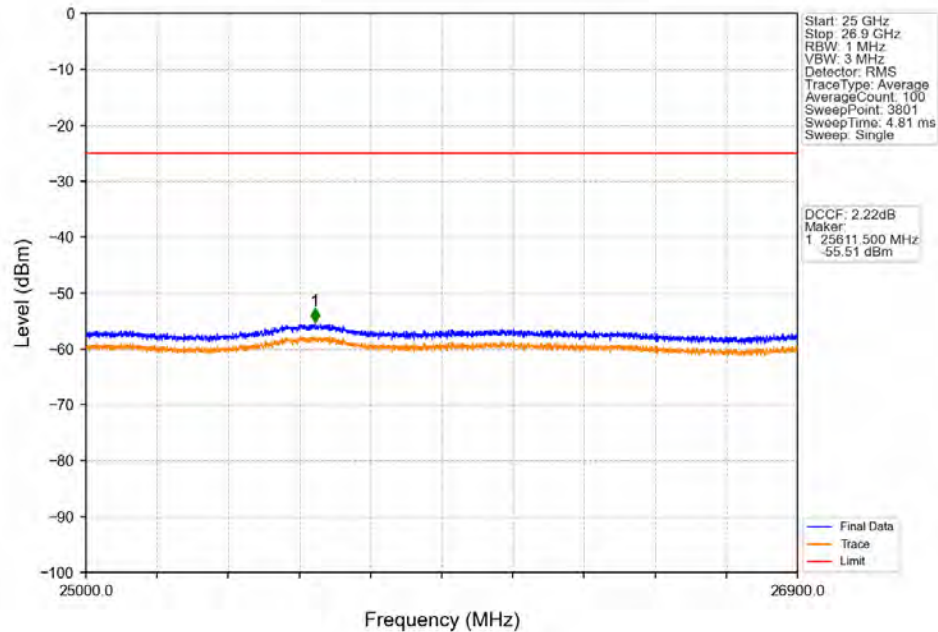
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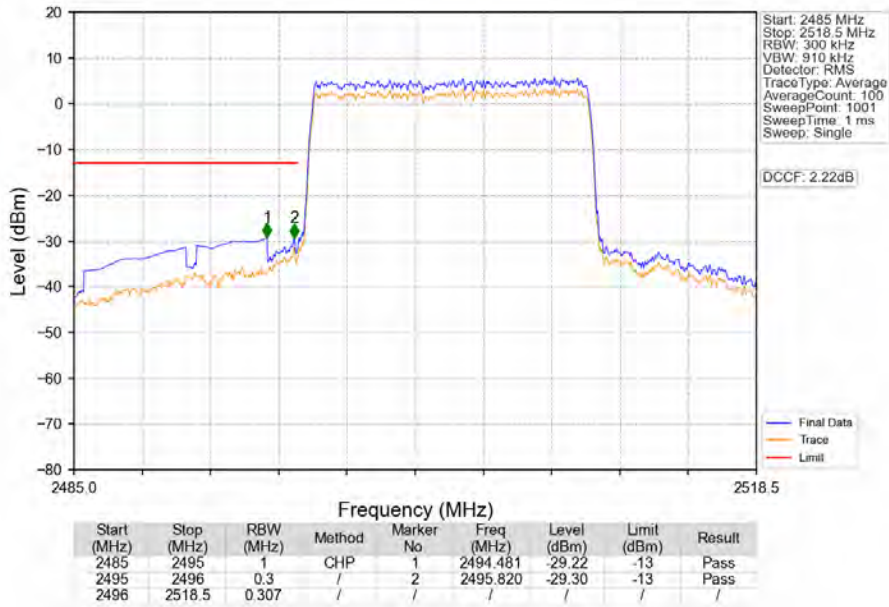
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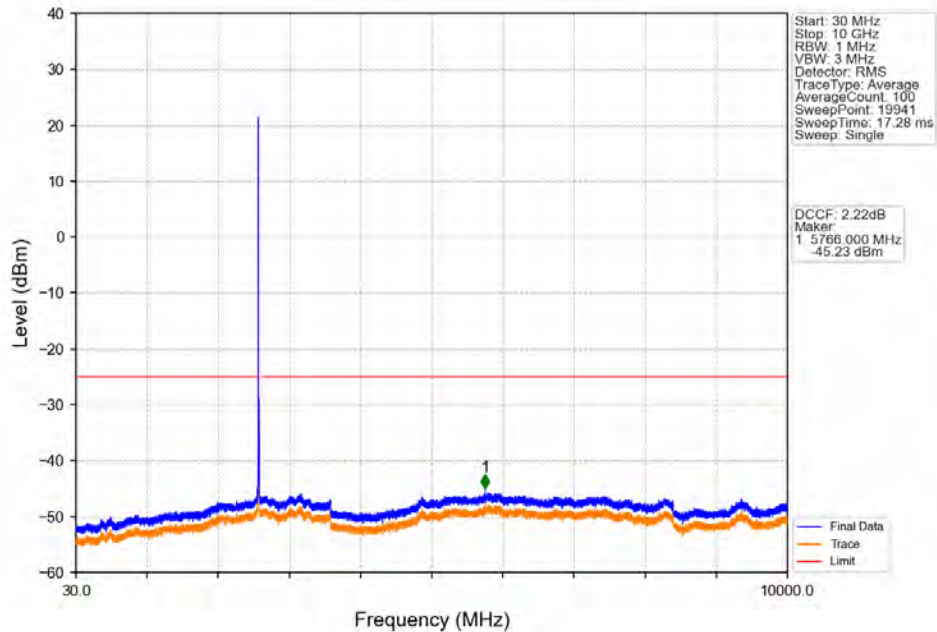
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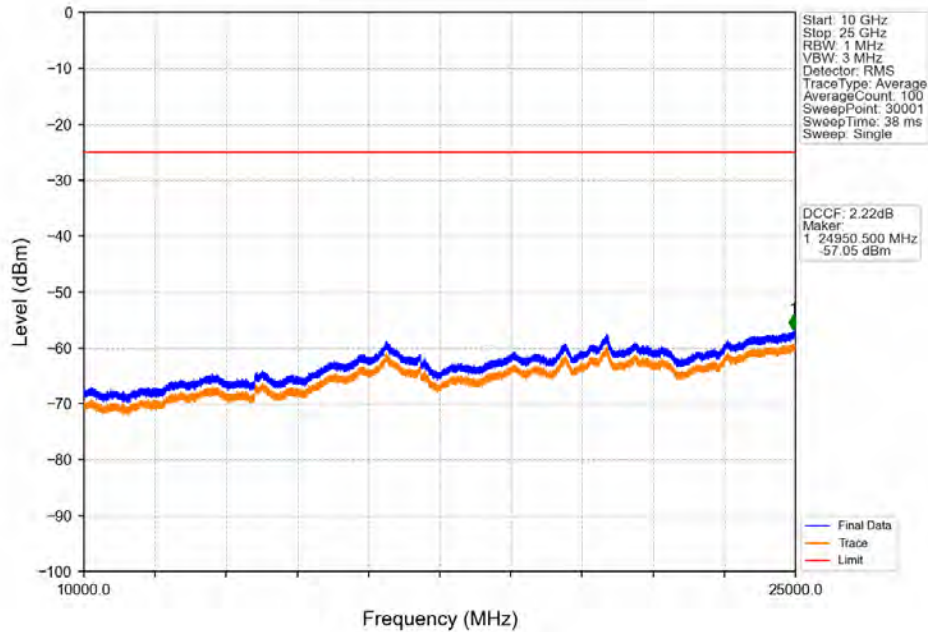
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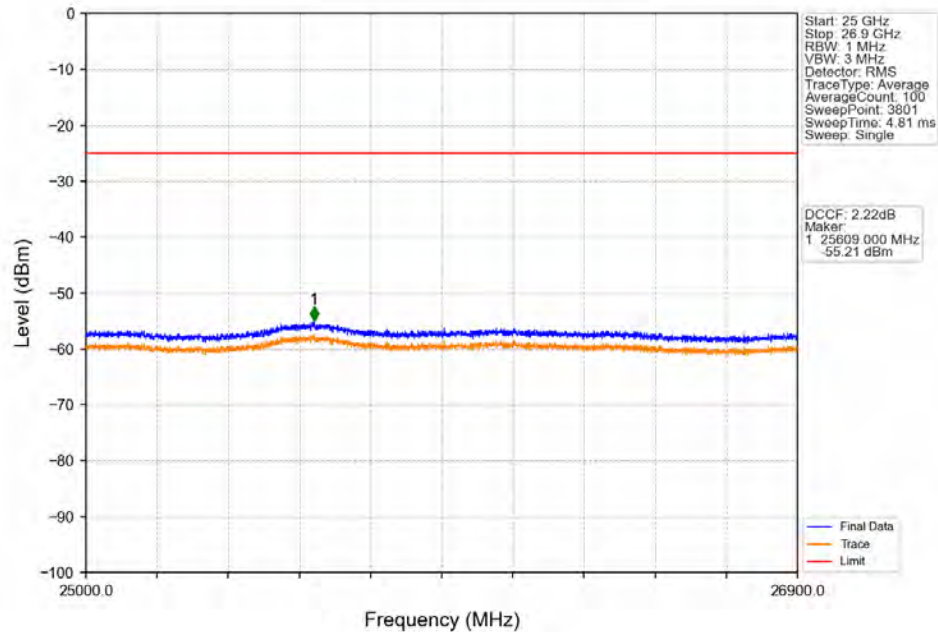
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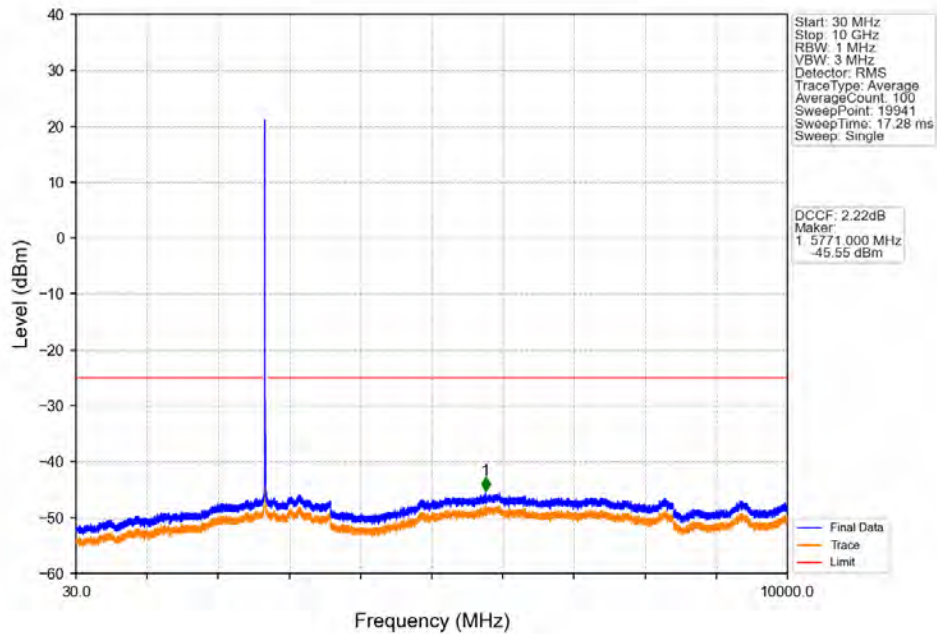
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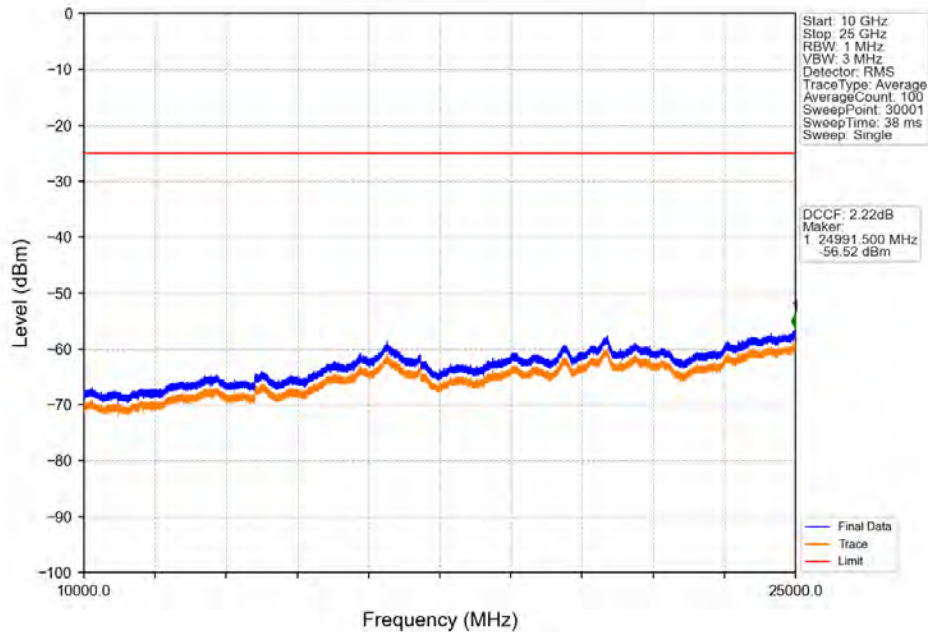
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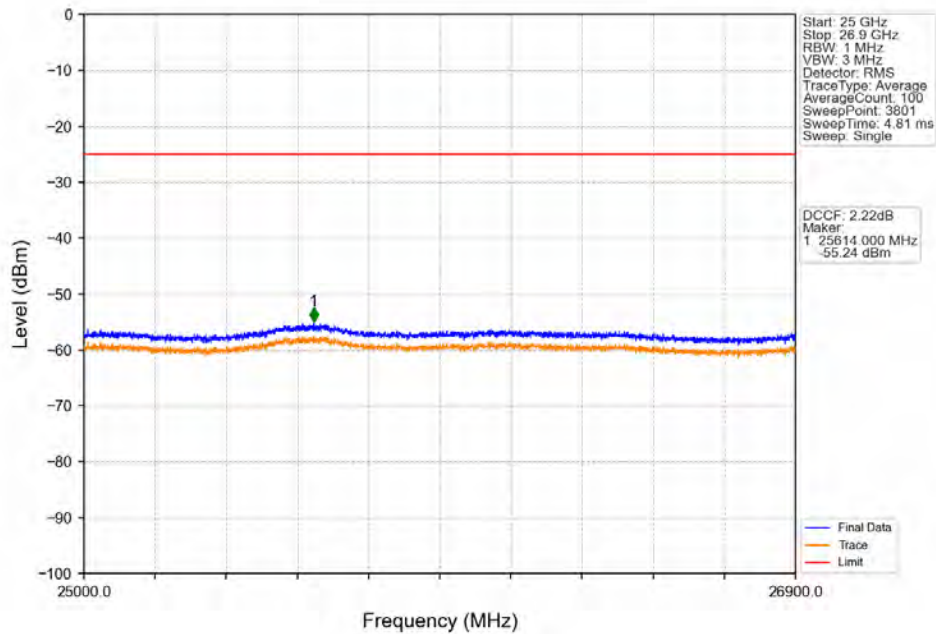
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Band41_15MHz_QPSK_HCH_2682.5MHz_RB_1_0_NTNV



Band41_15MHz_QPSK_HCH_2682.5MHz_RB_1_74_NTNV



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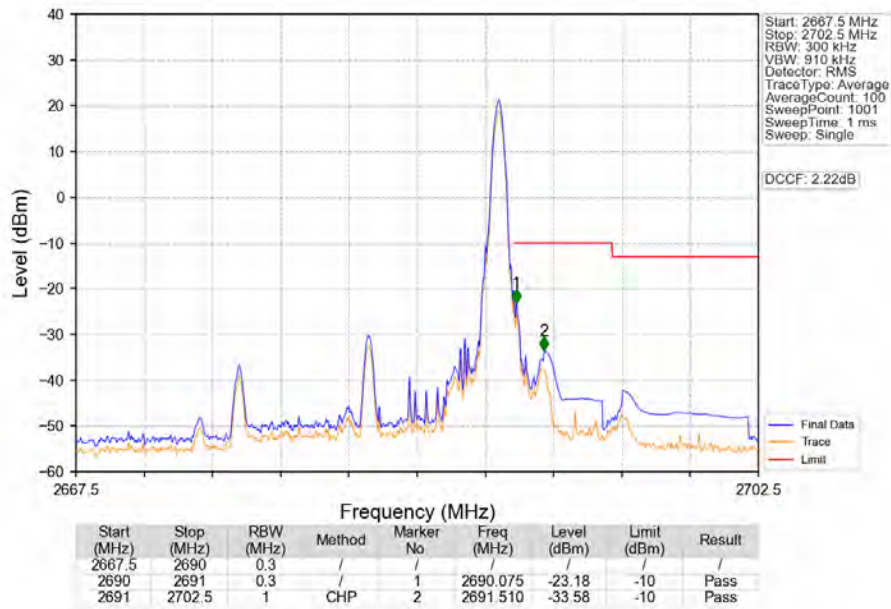
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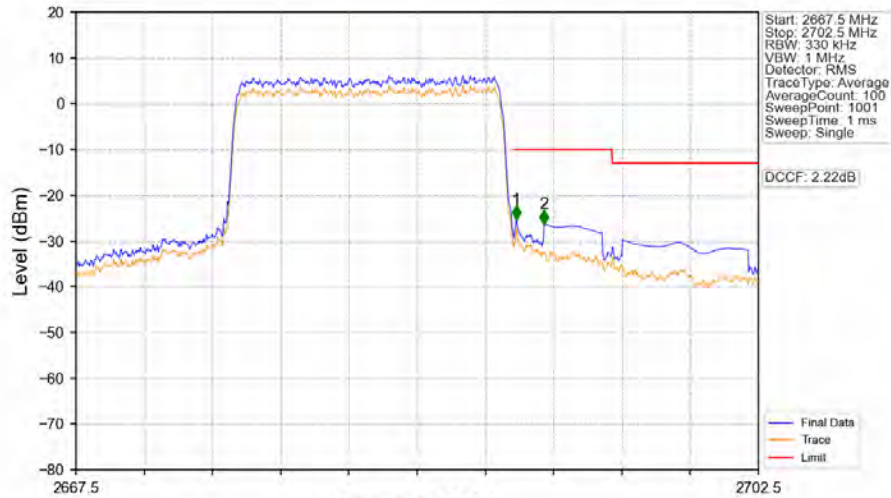
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Band41_15MHz_QPSK_HCH_2682.5MHz_RB_75_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2667.5	2690	0.33	/	/	/	/	/	/
2690	2691	0.33	/	1	2690.075	-25.29	-10	Pass
2691	2702.5	1	CHP	2	2691.510	-26.30	-10	Pass



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6.4 B41_20MHz

6.4.1 Test Result

Band: 41 / Bandwidth: 20MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	2506	1	0	Refer To Test Graph	Pass
		100	0	Refer To Test Graph	Pass
	2593	1	0	Refer To Test Graph	Pass
	2680	1	0	Refer To Test Graph	Pass
			99	Refer To Test Graph	Pass
		100	0	Refer To Test Graph	Pass



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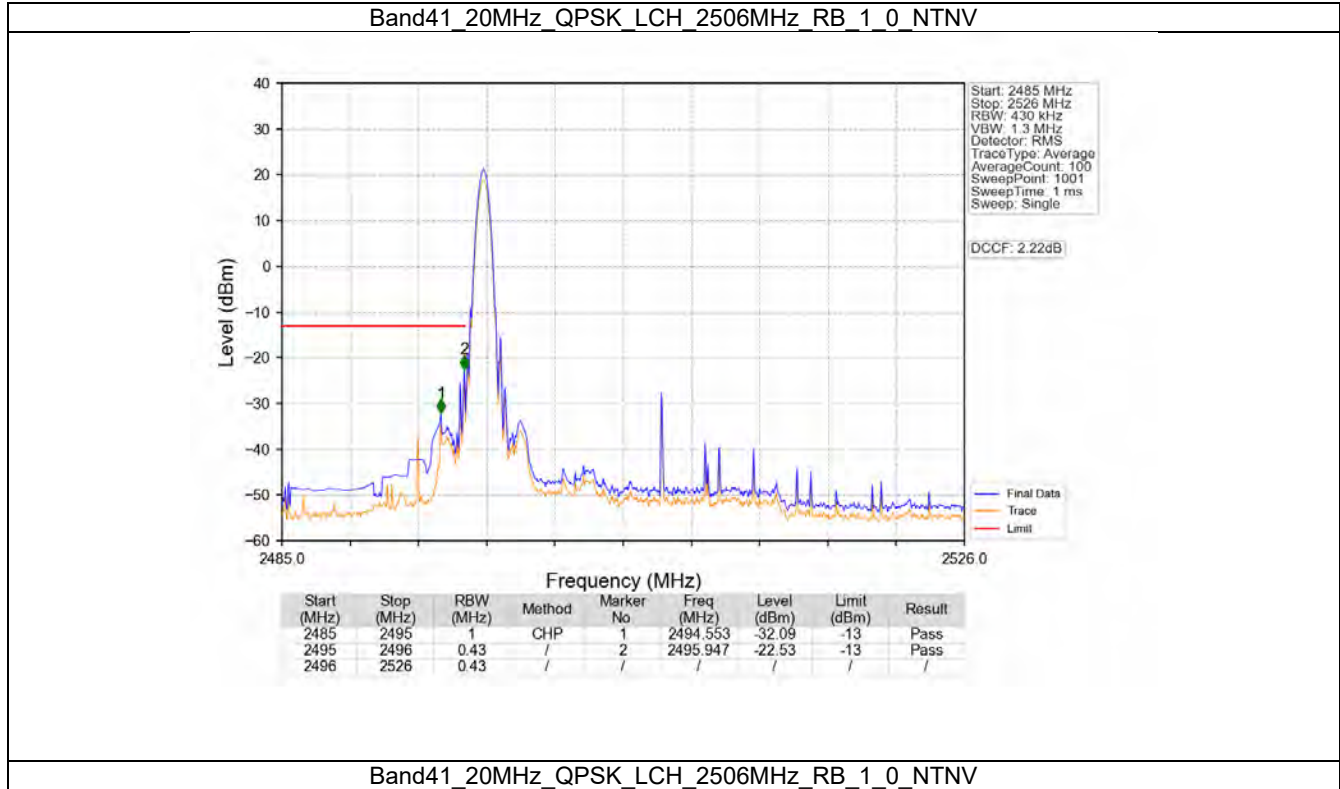
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6.4.2 Test Graph



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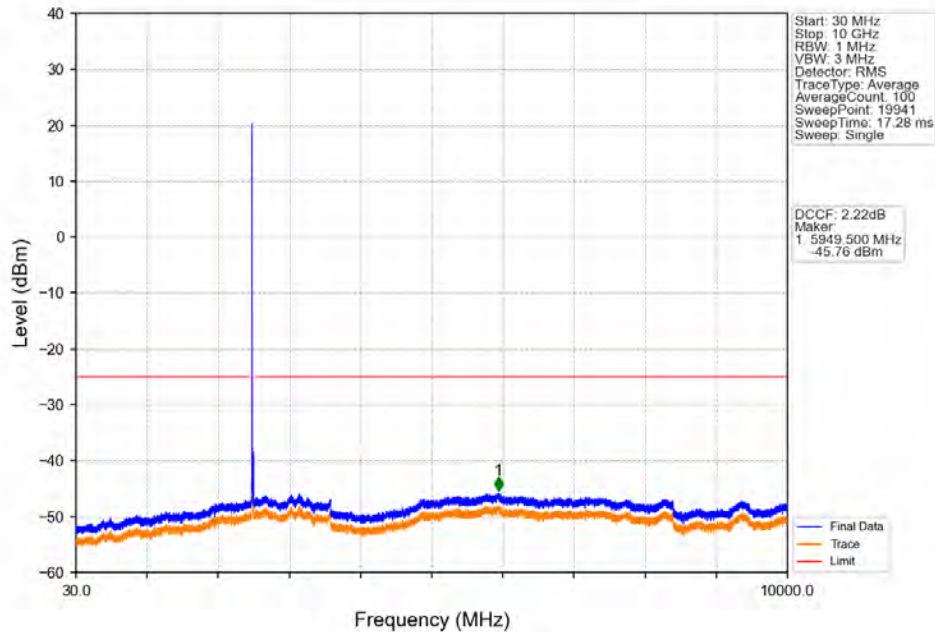
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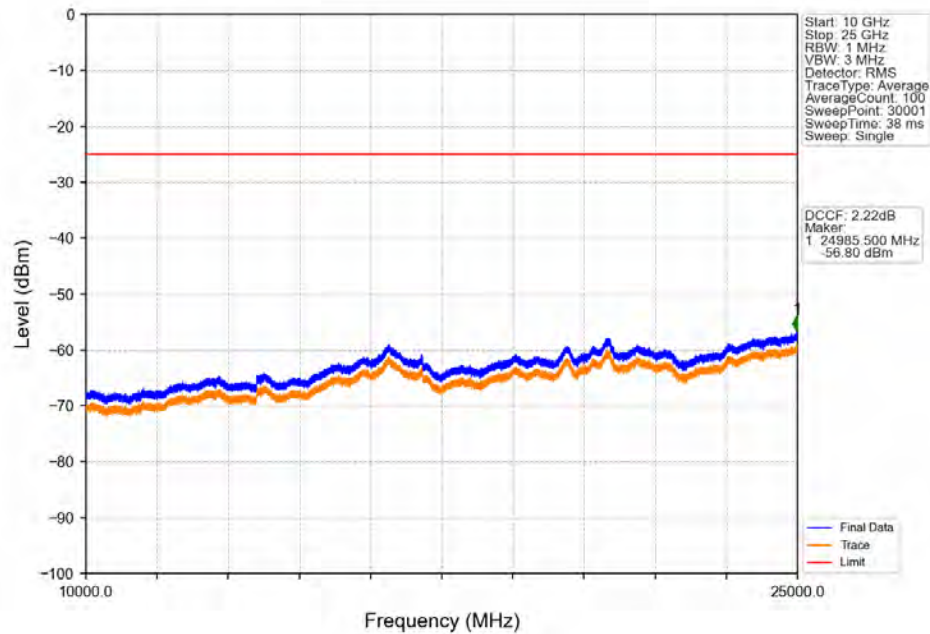
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Band41_20MHz_QPSK_LCH_2506MHz_RB_1_0_NTNV



Band41_20MHz_QPSK_LCH_2506MHz_RB_1_0_NTNV



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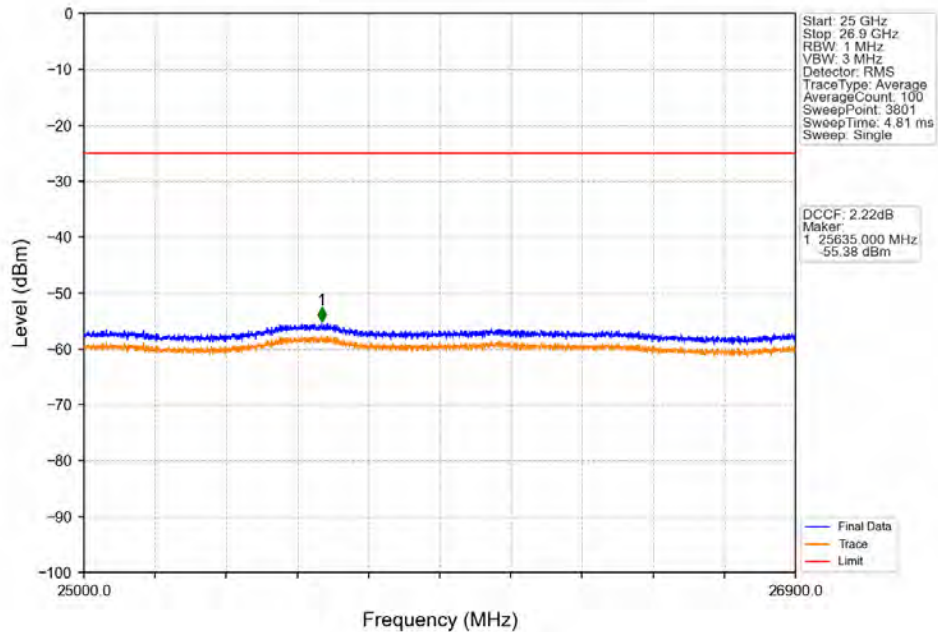
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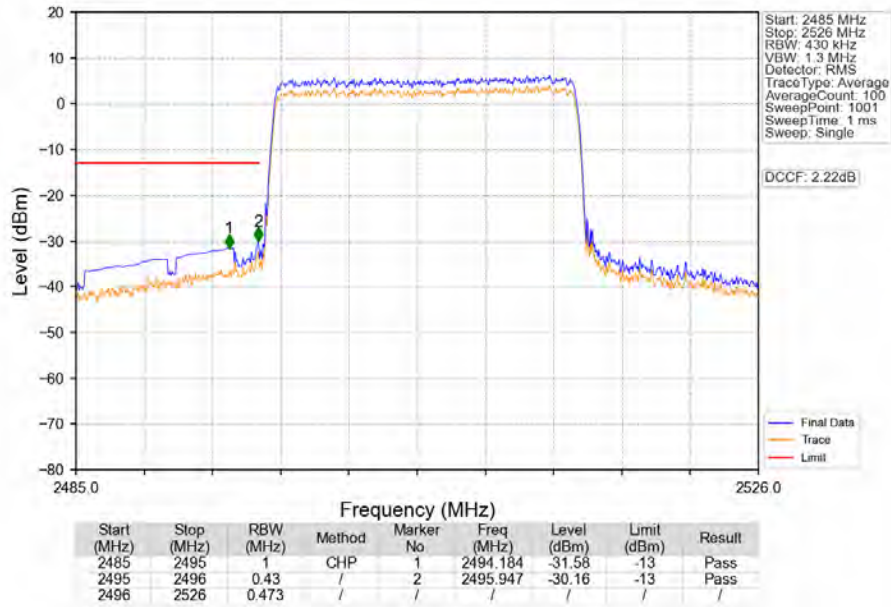
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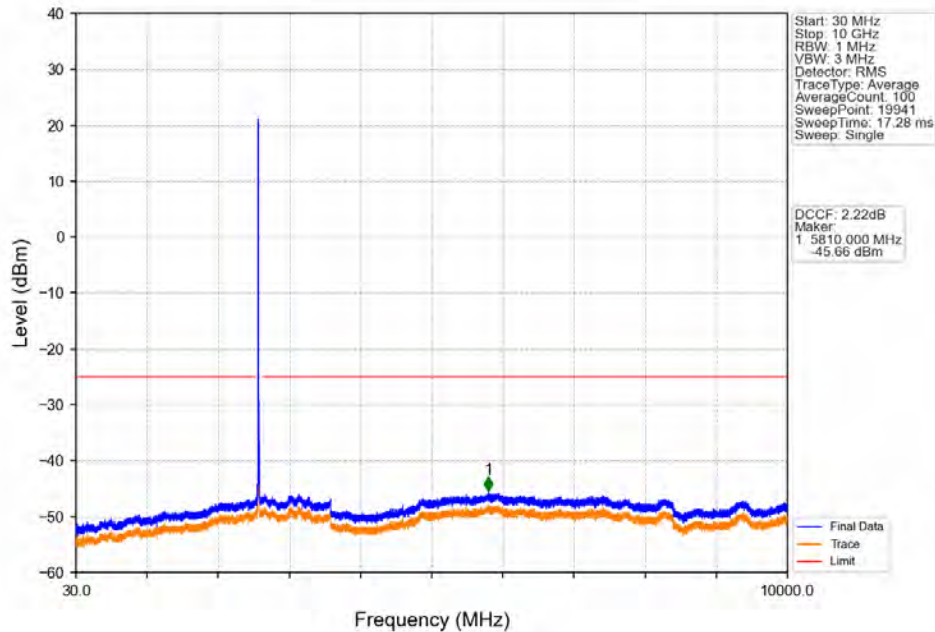
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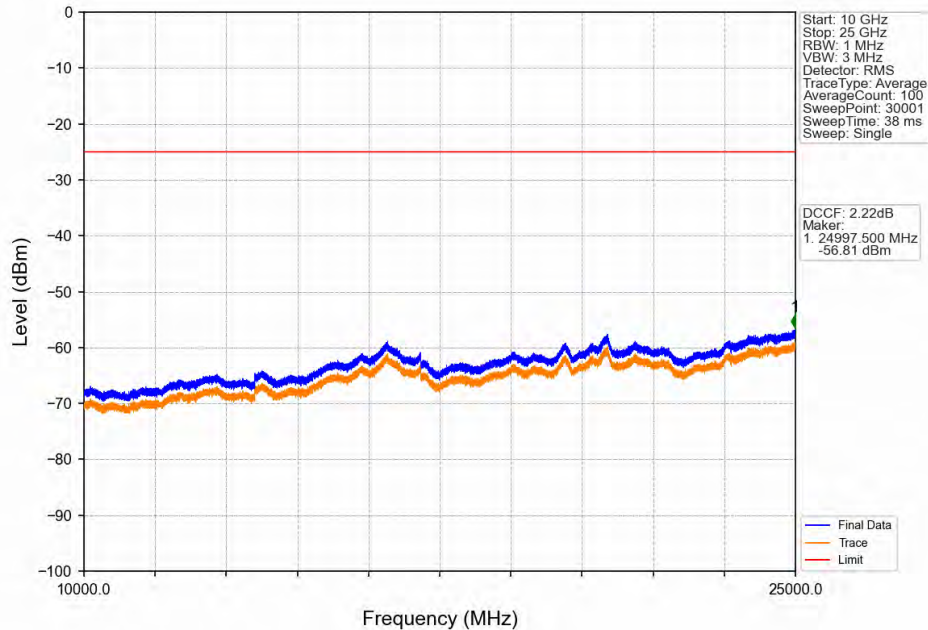
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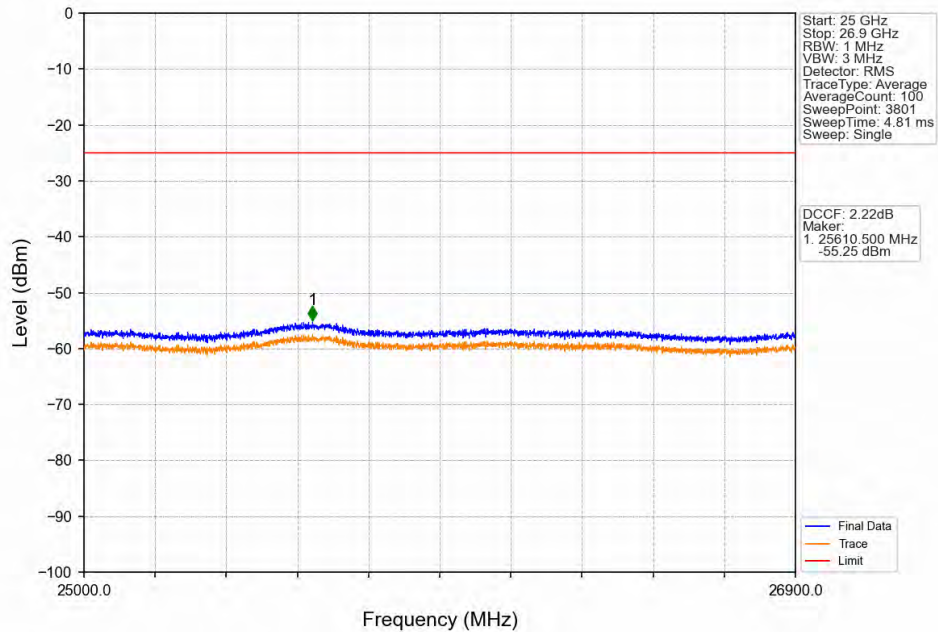
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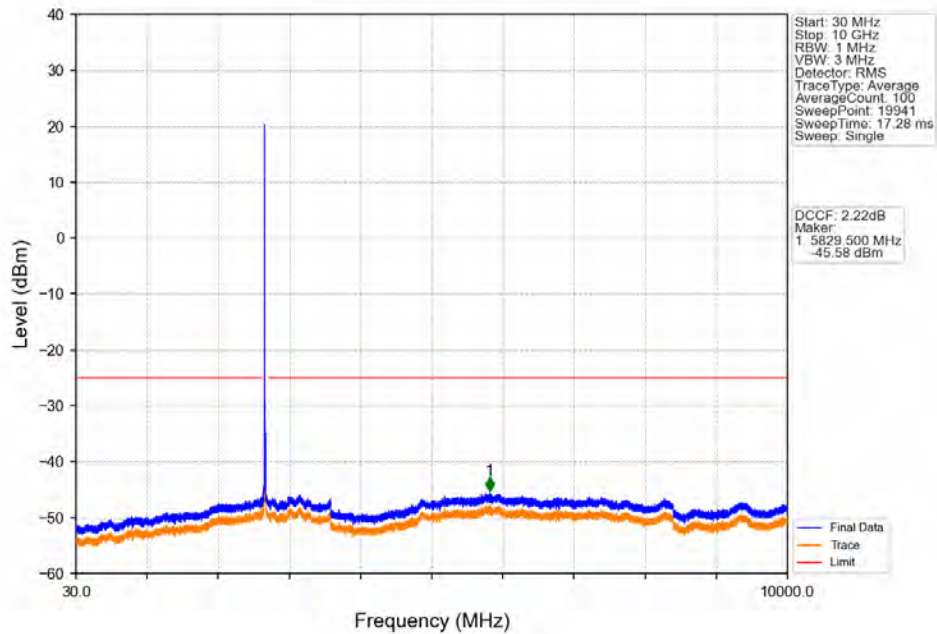
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Band41_20MHz_QPSK_HCH_2680MHz_RB_1_0_NTNV



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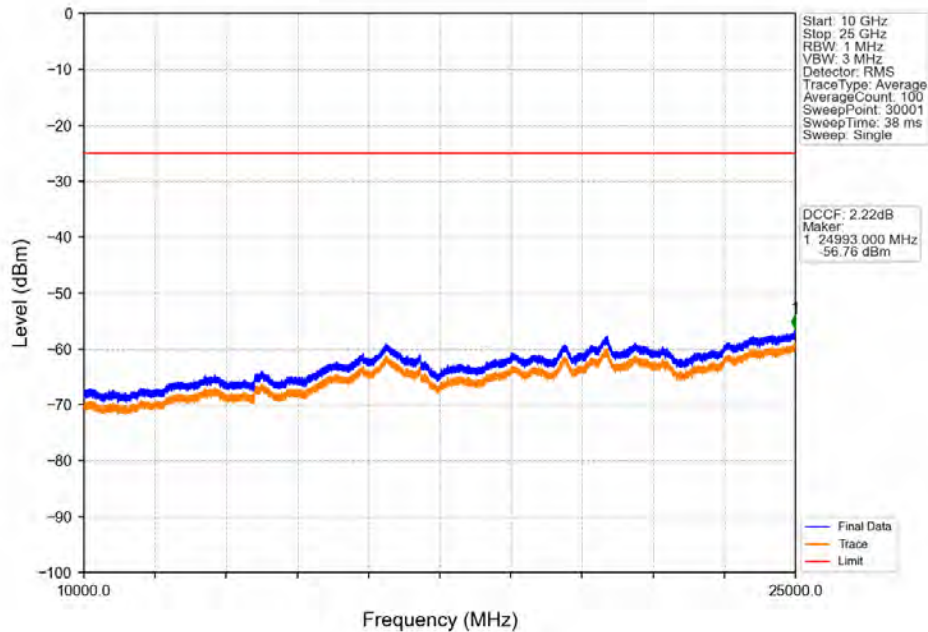
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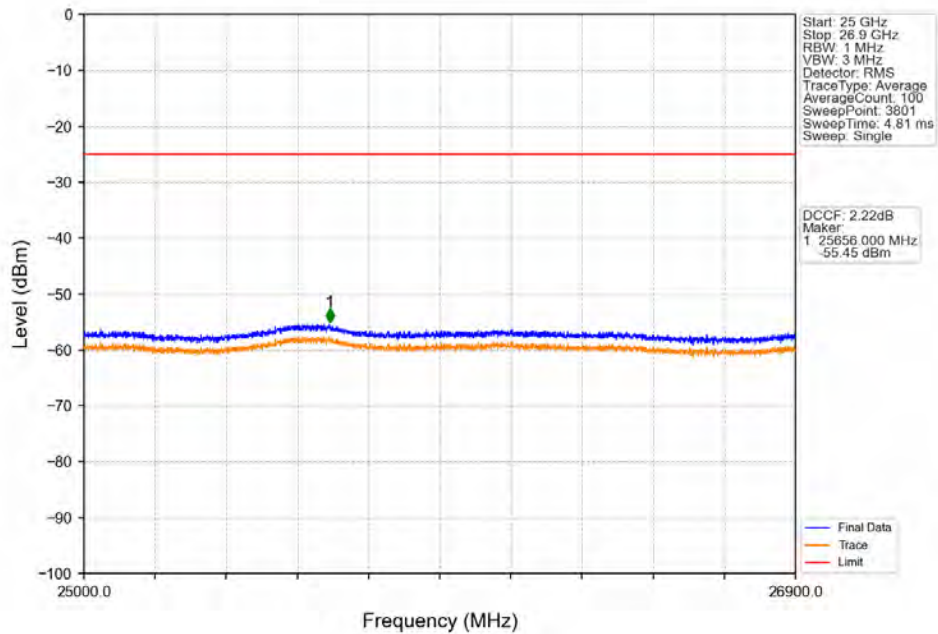
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Band41_20MHz_QPSK_HCH_2680MHz_RB_1_99_NTNV



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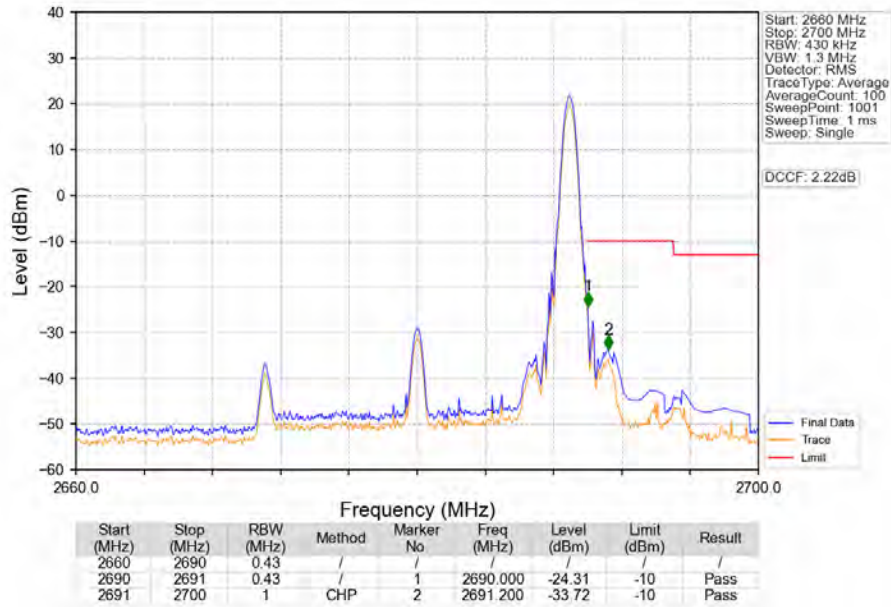
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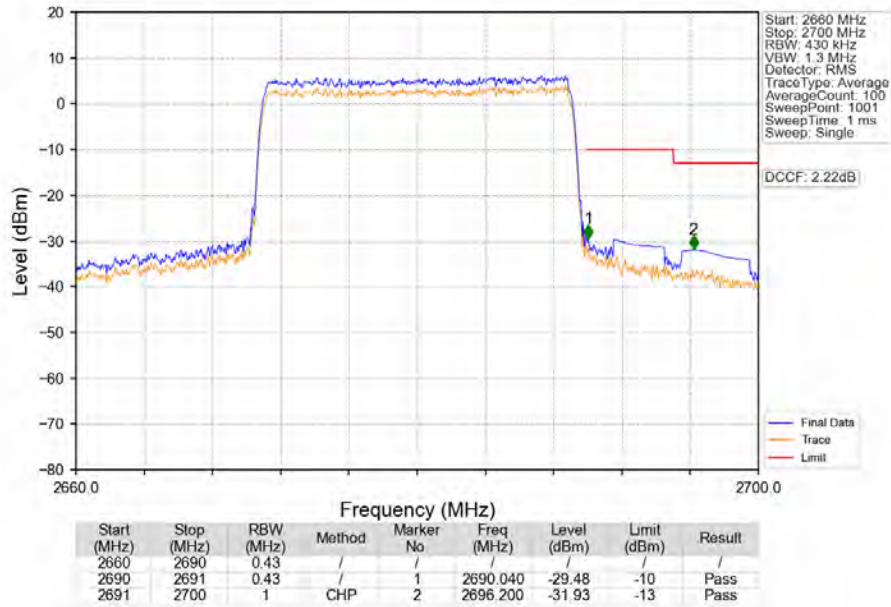
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