

		Inner 1RB Left	18.97	18.85	21.92	21.57	21.45	24.52	<=33	Pass
		Inner 1RB Right	19.09	19.17	22.14	21.69	21.77	24.74	<=33	Pass
	2595	Outer Full	19.08	19.06	22.08	21.68	21.66	24.68	<=33	Pass
		Inner Full	19.03	19.01	22.03	21.63	21.61	24.63	<=33	Pass
		Inner 1RB Left	18.91	18.81	21.87	21.51	21.41	24.47	<=33	Pass
		Inner 1RB Right	19.15	19.24	22.21	21.75	21.84	24.81	<=33	Pass
	2600	Outer Full	19.08	19.07	22.09	21.68	21.67	24.69	<=33	Pass
		Inner Full	19.10	19.09	22.11	21.70	21.69	24.71	<=33	Pass
		Inner 1RB Left	18.97	18.87	21.93	21.57	21.47	24.53	<=33	Pass
		Inner 1RB Right	19.18	19.32	22.26	21.78	21.92	24.86	<=33	Pass
CP-OFDM QPSK	2590	Outer Full	20.26	20.25	23.26	22.86	22.85	25.87	<=33	Pass
		Inner Full	21.82	21.81	24.83	24.42	24.41	27.43	<=33	Pass
		Inner 1RB Left	21.47	21.35	24.42	24.07	23.95	27.02	<=33	Pass
		Inner 1RB Right	21.80	21.88	24.85	24.40	24.48	27.45	<=33	Pass
	2595	Outer Full	20.32	20.30	23.32	22.92	22.90	25.92	<=33	Pass
		Inner Full	21.91	21.89	24.91	24.51	24.49	27.51	<=33	Pass
		Inner 1RB Left	21.54	21.43	24.50	24.14	24.03	27.10	<=33	Pass
		Inner 1RB Right	22.04	22.13	25.10	24.64	24.73	27.70	<=33	Pass
	2600	Outer Full	20.36	20.36	23.37	22.96	22.96	25.97	<=33	Pass
		Inner Full	21.82	21.81	24.83	24.42	24.41	27.43	<=33	Pass
		Inner 1RB Left	21.58	21.48	24.54	24.18	24.08	27.14	<=33	Pass
		Inner 1RB Right	21.90	22.04	24.98	24.50	24.64	27.58	<=33	Pass
CP-OFDM 16 QAM	2590	Outer Full	20.23	20.22	23.24	22.83	22.82	25.84	<=33	Pass
		Inner Full	21.33	21.33	24.34	23.93	23.93	26.94	<=33	Pass
		Inner 1RB Left	21.16	21.04	24.11	23.76	23.64	26.71	<=33	Pass
		Inner 1RB Right	21.46	21.54	24.51	24.06	24.14	27.11	<=33	Pass
	2595	Outer Full	20.33	20.31	23.33	22.93	22.91	25.93	<=33	Pass
		Inner Full	21.37	21.36	24.38	23.97	23.96	26.98	<=33	Pass
		Inner 1RB Left	21.34	21.23	24.30	23.94	23.83	26.90	<=33	Pass
		Inner 1RB Right	21.70	21.79	24.75	24.30	24.39	27.36	<=33	Pass
	2600	Outer Full	20.32	20.33	23.34	22.92	22.93	25.94	<=33	Pass
		Inner Full	21.37	21.35	24.37	23.97	23.95	26.97	<=33	Pass
		Inner 1RB Left	21.45	21.36	24.41	24.05	23.96	27.02	<=33	Pass
		Inner 1RB Right	21.82	21.96	24.90	24.42	24.56	27.50	<=33	Pass
CP-OFDM 64 QAM	2590	Outer Full	19.83	19.81	22.83	22.43	22.41	25.43	<=33	Pass
		Inner Full	19.81	19.81	22.82	22.41	22.41	25.42	<=33	Pass
		Inner 1RB Left	19.53	19.41	22.48	22.13	22.01	25.08	<=33	Pass
		Inner 1RB Right	19.77	19.86	22.82	22.37	22.46	25.43	<=33	Pass
	2595	Outer Full	19.88	19.87	22.89	22.48	22.47	25.49	<=33	Pass
		Inner Full	19.72	19.70	22.72	22.32	22.30	25.32	<=33	Pass
		Inner 1RB Left	19.67	19.56	22.63	22.27	22.16	25.23	<=33	Pass
		Inner 1RB Right	20.06	20.15	23.11	22.66	22.75	25.72	<=33	Pass
	2600	Outer Full	19.94	19.94	22.95	22.54	22.54	25.55	<=33	Pass
		Inner Full	19.79	19.77	22.79	22.39	22.37	25.39	<=33	Pass
		Inner 1RB Left	19.72	19.62	22.68	22.32	22.22	25.28	<=33	Pass
		Inner 1RB Right	20.12	20.26	23.20	22.72	22.86	25.80	<=33	Pass
CP-OFDM 256 QAM	2590	Outer Full	16.98	16.97	19.99	19.58	19.57	22.59	<=33	Pass
		Inner Full	17.00	17.00	20.01	19.60	19.60	22.61	<=33	Pass
		Inner 1RB Left	16.93	16.81	19.88	19.53	19.41	22.48	<=33	Pass
		Inner 1RB Right	17.15	17.24	20.21	19.75	19.84	22.81	<=33	Pass
	2595	Outer Full	17.09	17.07	20.09	19.69	19.67	22.69	<=33	Pass
		Inner Full	17.07	17.05	20.07	19.67	19.65	22.67	<=33	Pass
		Inner 1RB Left	16.95	16.85	19.91	19.55	19.45	22.51	<=33	Pass
		Inner 1RB Right	17.22	17.31	20.27	19.82	19.91	22.88	<=33	Pass
	2600	Outer Full	17.08	17.09	20.09	19.68	19.69	22.70	<=33	Pass
		Inner Full	17.06	17.05	20.07	19.66	19.65	22.67	<=33	Pass
		Inner 1RB Left	16.98	16.88	19.94	19.58	19.48	22.54	<=33	Pass
		Inner 1RB Right	17.34	17.48	20.42	19.94	20.08	23.02	<=33	Pass

Note1: Antenna Gain: Ant1: 2.60dBi; Ant2: 2.60dBi;

Note2: EIRP Ant_1=Conducted Power_1+Ant Gain_1 / EIRP Ant_2=Conducted Power_2+Ant Gain_2 / Sum=EIRP Ant_1+EIRP Ant_2

2. Frequency Stability

2.1 Test Result

2.1.1 30k_SISO_40MHz

5G NR n38 SCS=30kHz SISO 40MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	2595	Outer_Full	20	LV	-3.10	-0.0012	>=-2.5 & <=2.5	Pass
				HV	-3.00	-0.0012	>=-2.5 & <=2.5	Pass
			-30	NV	-1.90	-0.0007	>=-2.5 & <=2.5	Pass
			-20	NV	-1.60	-0.0006	>=-2.5 & <=2.5	Pass
			-10	NV	-4.90	-0.0019	>=-2.5 & <=2.5	Pass
			0	NV	4.00	0.0015	>=-2.5 & <=2.5	Pass
			10	NV	3.00	0.0012	>=-2.5 & <=2.5	Pass
			20	NV	2.60	0.0010	>=-2.5 & <=2.5	Pass
			30	NV	-2.20	-0.0008	>=-2.5 & <=2.5	Pass
			40	NV	3.10	0.0012	>=-2.5 & <=2.5	Pass
CP-OFDM QPSK	2595	Outer_Full	20	LV	-2.40	-0.0009	>=-2.5 & <=2.5	Pass
				HV	-3.80	-0.0015	>=-2.5 & <=2.5	Pass
			-30	NV	-2.70	-0.0010	>=-2.5 & <=2.5	Pass
			-20	NV	-2.80	-0.0011	>=-2.5 & <=2.5	Pass
			-10	NV	-1.90	-0.0007	>=-2.5 & <=2.5	Pass
			0	NV	-3.30	-0.0013	>=-2.5 & <=2.5	Pass
			10	NV	-1.80	-0.0007	>=-2.5 & <=2.5	Pass
			20	NV	-1.30	-0.0005	>=-2.5 & <=2.5	Pass
			30	NV	1.70	0.0007	>=-2.5 & <=2.5	Pass
			40	NV	2.20	0.0008	>=-2.5 & <=2.5	Pass
			50	NV	-1.30	-0.0005	>=-2.5 & <=2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 30k_SISO_10MHz_NTNV

5G NR n38 SCS=30kHz SISO 10MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2575	Outer_Full	8.60	9.36	/	Pass
	2595	Outer_Full	8.59	9.35	/	Pass
	2615	Outer_Full	8.57	9.26	/	Pass
DFT-s-OFDM QPSK	2575	Outer_Full	8.56	9.44	/	Pass
	2595	Outer_Full	8.61	9.43	/	Pass
	2615	Outer_Full	8.62	9.38	/	Pass
DFT-s-OFDM 16 QAM	2575	Outer_Full	8.61	9.32	/	Pass
	2595	Outer_Full	8.59	9.32	/	Pass
	2615	Outer_Full	8.59	9.29	/	Pass
DFT-s-OFDM 64 QAM	2575	Outer_Full	8.60	9.27	/	Pass

DFT-s-OFDM 256 QAM	2595	Outer_Full	8.60	9.47	/	Pass
	2615	Outer_Full	8.59	9.35	/	Pass
	2575	Outer_Full	8.61	9.47	/	Pass
	2595	Outer_Full	8.59	9.38	/	Pass
	2615	Outer_Full	8.58	9.36	/	Pass
CP-OFDM QPSK	2575	Outer_Full	8.63	9.38	/	Pass
	2595	Outer_Full	8.65	9.38	/	Pass
	2615	Outer_Full	8.64	9.42	/	Pass
CP-OFDM 16 QAM	2575	Outer_Full	8.62	9.42	/	Pass
	2595	Outer_Full	8.62	9.49	/	Pass
	2615	Outer_Full	8.61	9.37	/	Pass
CP-OFDM 64 QAM	2575	Outer_Full	8.66	9.35	/	Pass
	2595	Outer_Full	8.61	9.36	/	Pass
	2615	Outer_Full	8.62	9.45	/	Pass
CP-OFDM 256 QAM	2575	Outer_Full	8.63	9.33	/	Pass
	2595	Outer_Full	8.59	9.36	/	Pass
	2615	Outer_Full	8.63	9.36	/	Pass

3.1.2 30k_SISO_15MHz_NTNV

5G NR n38 SCS=30kHz SISO 15MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2577.5	Outer_Full	12.91	13.93	/	Pass
	2595	Outer_Full	12.93	13.71	/	Pass
	2612.5	Outer_Full	12.94	13.93	/	Pass
DFT-s-OFDM QPSK	2577.5	Outer_Full	12.94	13.87	/	Pass
	2595	Outer_Full	12.97	13.77	/	Pass
	2612.5	Outer_Full	12.91	13.83	/	Pass
DFT-s-OFDM 16 QAM	2577.5	Outer_Full	12.93	13.79	/	Pass
	2595	Outer_Full	12.97	13.77	/	Pass
	2612.5	Outer_Full	12.94	13.77	/	Pass
DFT-s-OFDM 64 QAM	2577.5	Outer_Full	12.91	13.85	/	Pass
	2595	Outer_Full	12.95	13.91	/	Pass
	2612.5	Outer_Full	12.92	13.91	/	Pass
DFT-s-OFDM 256 QAM	2577.5	Outer_Full	12.94	13.70	/	Pass
	2595	Outer_Full	12.99	13.82	/	Pass
	2612.5	Outer_Full	12.96	13.72	/	Pass
CP-OFDM QPSK	2577.5	Outer_Full	13.66	14.62	/	Pass
	2595	Outer_Full	13.64	14.65	/	Pass
	2612.5	Outer_Full	13.62	14.60	/	Pass
CP-OFDM 16 QAM	2577.5	Outer_Full	13.62	14.62	/	Pass
	2595	Outer_Full	13.63	14.47	/	Pass
	2612.5	Outer_Full	13.61	14.49	/	Pass
CP-OFDM 64 QAM	2577.5	Outer_Full	13.67	14.54	/	Pass
	2595	Outer_Full	13.66	14.54	/	Pass
	2612.5	Outer_Full	13.60	14.51	/	Pass
CP-OFDM 256 QAM	2577.5	Outer_Full	13.60	14.61	/	Pass
	2595	Outer_Full	13.62	14.66	/	Pass
	2612.5	Outer_Full	13.67	14.56	/	Pass

3.1.3 30k_SISO_20MHz_NTNV

5G NR n38 SCS=30kHz SISO 20MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict

DFT-s-OFDM PI/2 BPSK	2580	Outer_Full	18.05	19.29	/	Pass
	2595	Outer_Full	18.03	19.22	/	Pass
	2610	Outer_Full	18.01	19.22	/	Pass
DFT-s-OFDM QPSK	2580	Outer_Full	18.02	19.09	/	Pass
	2595	Outer_Full	18.04	19.14	/	Pass
	2610	Outer_Full	18.05	19.32	/	Pass
DFT-s-OFDM 16 QAM	2580	Outer_Full	18.02	19.18	/	Pass
	2595	Outer_Full	18.08	19.23	/	Pass
	2610	Outer_Full	18.06	19.22	/	Pass
DFT-s-OFDM 64 QAM	2580	Outer_Full	17.99	19.22	/	Pass
	2595	Outer_Full	18.03	19.27	/	Pass
	2610	Outer_Full	17.95	19.11	/	Pass
DFT-s-OFDM 256 QAM	2580	Outer_Full	18.03	19.18	/	Pass
	2595	Outer_Full	18.06	19.26	/	Pass
	2610	Outer_Full	18.01	19.20	/	Pass
CP-OFDM QPSK	2580	Outer_Full	18.36	19.53	/	Pass
	2595	Outer_Full	18.37	19.51	/	Pass
	2610	Outer_Full	18.35	19.50	/	Pass
CP-OFDM 16 QAM	2580	Outer_Full	18.37	19.59	/	Pass
	2595	Outer_Full	18.34	19.49	/	Pass
	2610	Outer_Full	18.34	19.51	/	Pass
CP-OFDM 64 QAM	2580	Outer_Full	18.33	19.54	/	Pass
	2595	Outer_Full	18.33	19.50	/	Pass
	2610	Outer_Full	18.29	19.50	/	Pass
CP-OFDM 256 QAM	2580	Outer_Full	18.33	19.61	/	Pass
	2595	Outer_Full	18.36	19.52	/	Pass
	2610	Outer_Full	18.30	19.51	/	Pass

3.1.4 30k_SISO_25MHz_NTNV

5G NR n38 SCS=30kHz SISO 25MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2582.5	Outer_Full	23.10	24.37	/	Pass
	2595	Outer_Full	23.03	24.26	/	Pass
	2607.5	Outer_Full	23.03	24.44	/	Pass
DFT-s-OFDM QPSK	2582.5	Outer_Full	22.94	24.24	/	Pass
	2595	Outer_Full	22.98	24.38	/	Pass
	2607.5	Outer_Full	22.96	24.33	/	Pass
DFT-s-OFDM 16 QAM	2582.5	Outer_Full	23.07	24.26	/	Pass
	2595	Outer_Full	23.00	24.23	/	Pass
	2607.5	Outer_Full	22.97	24.28	/	Pass
DFT-s-OFDM 64 QAM	2582.5	Outer_Full	23.01	24.25	/	Pass
	2595	Outer_Full	22.98	24.18	/	Pass
	2607.5	Outer_Full	23.08	24.25	/	Pass
DFT-s-OFDM 256 QAM	2582.5	Outer_Full	23.08	24.20	/	Pass
	2595	Outer_Full	22.95	24.35	/	Pass
	2607.5	Outer_Full	22.97	24.35	/	Pass
CP-OFDM QPSK	2582.5	Outer_Full	23.22	24.55	/	Pass
	2595	Outer_Full	23.24	24.57	/	Pass
	2607.5	Outer_Full	23.26	24.73	/	Pass
CP-OFDM 16 QAM	2582.5	Outer_Full	23.28	24.62	/	Pass
	2595	Outer_Full	23.36	24.72	/	Pass
	2607.5	Outer_Full	23.31	24.62	/	Pass
CP-OFDM 64 QAM	2582.5	Outer_Full	23.29	24.56	/	Pass
	2595	Outer_Full	23.25	24.67	/	Pass
	2607.5	Outer_Full	23.34	24.59	/	Pass
CP-OFDM 256 QAM	2582.5	Outer_Full	23.30	24.55	/	Pass

	2595	Outer_Full	23.25	24.57	/	Pass
	2607.5	Outer_Full	23.25	24.55	/	Pass

3.1.5 30k_SISO_30MHz_NTNV

5G NR n38 SCS=30kHz SISO 30MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2585	Outer_Full	27.27	29.36	/	Pass
	2595	Outer_Full	27.29	29.35	/	Pass
	2605	Outer_Full	27.24	29.42	/	Pass
DFT-s-OFDM QPSK	2585	Outer_Full	27.27	29.40	/	Pass
	2595	Outer_Full	27.22	29.45	/	Pass
	2605	Outer_Full	27.19	29.50	/	Pass
DFT-s-OFDM 16 QAM	2585	Outer_Full	27.17	29.43	/	Pass
	2595	Outer_Full	27.07	29.34	/	Pass
	2605	Outer_Full	27.15	29.38	/	Pass
DFT-s-OFDM 64 QAM	2585	Outer_Full	27.26	29.52	/	Pass
	2595	Outer_Full	27.20	29.38	/	Pass
	2605	Outer_Full	27.22	29.31	/	Pass
DFT-s-OFDM 256 QAM	2585	Outer_Full	27.23	29.29	/	Pass
	2595	Outer_Full	27.21	29.32	/	Pass
	2605	Outer_Full	27.25	29.34	/	Pass
CP-OFDM QPSK	2585	Outer_Full	28.24	30.39	/	Pass
	2595	Outer_Full	28.20	30.38	/	Pass
	2605	Outer_Full	28.27	30.34	/	Pass
CP-OFDM 16 QAM	2585	Outer_Full	28.25	30.50	/	Pass
	2595	Outer_Full	28.17	30.51	/	Pass
	2605	Outer_Full	28.23	30.43	/	Pass
CP-OFDM 64 QAM	2585	Outer_Full	28.22	30.36	/	Pass
	2595	Outer_Full	28.19	30.27	/	Pass
	2605	Outer_Full	28.24	30.40	/	Pass
CP-OFDM 256 QAM	2585	Outer_Full	28.21	30.32	/	Pass
	2595	Outer_Full	28.22	30.47	/	Pass
	2605	Outer_Full	28.23	30.40	/	Pass

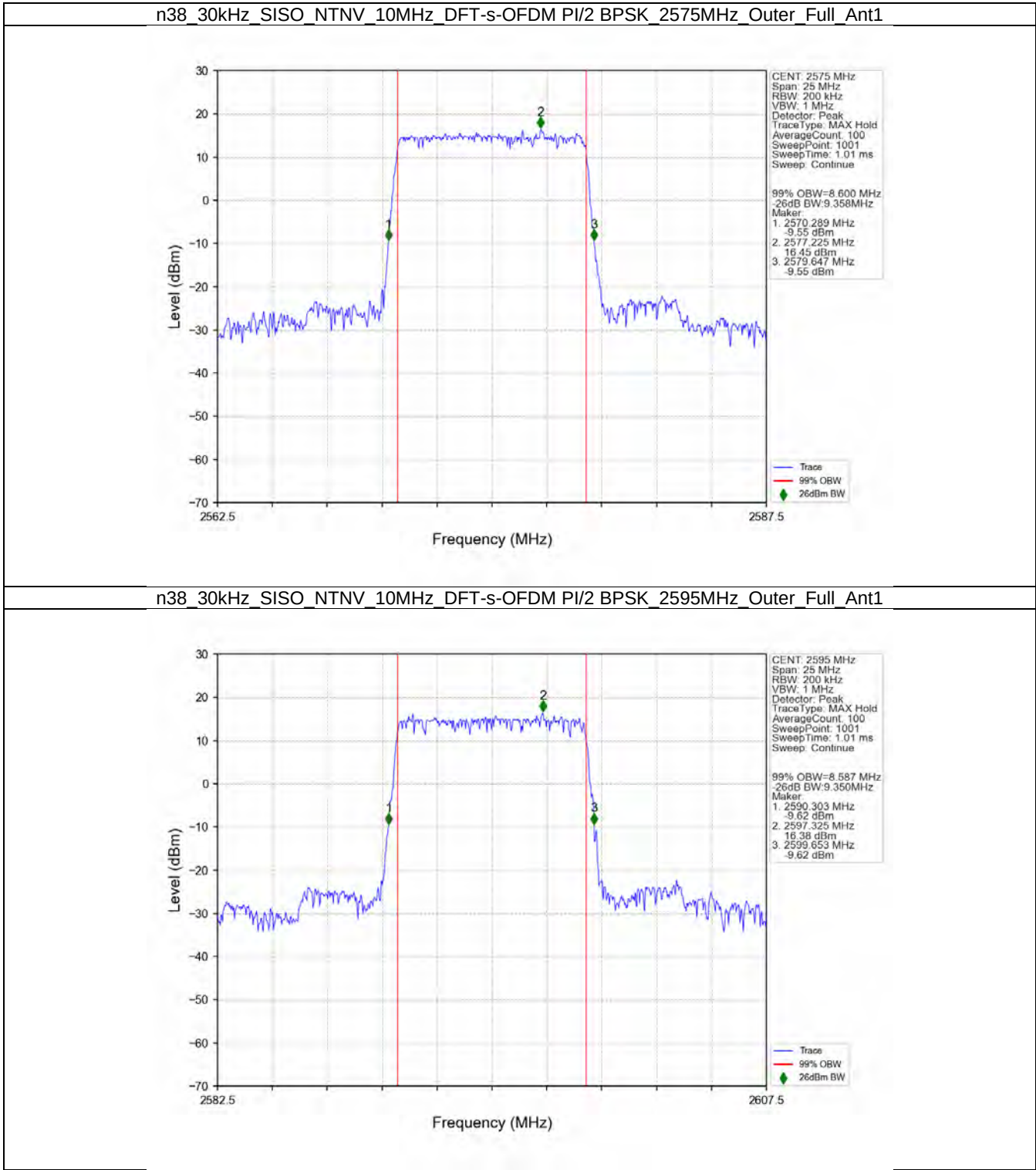
3.1.6 30k_SISO_40MHz_NTNV

5G NR n38 SCS=30kHz SISO 40MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2590	Outer_Full	36.12	38.34	/	Pass
	2595	Outer_Full	36.14	38.32	/	Pass
	2600	Outer_Full	35.98	38.43	/	Pass
DFT-s-OFDM QPSK	2590	Outer_Full	36.02	38.33	/	Pass
	2595	Outer_Full	36.01	38.48	/	Pass
	2600	Outer_Full	35.99	38.49	/	Pass
DFT-s-OFDM 16 QAM	2590	Outer_Full	35.93	38.36	/	Pass
	2595	Outer_Full	35.95	38.47	/	Pass
	2600	Outer_Full	35.98	38.41	/	Pass
DFT-s-OFDM 64 QAM	2590	Outer_Full	35.92	38.32	/	Pass
	2595	Outer_Full	35.99	38.33	/	Pass
	2600	Outer_Full	35.92	38.45	/	Pass
DFT-s-OFDM 256 QAM	2590	Outer_Full	36.09	38.41	/	Pass
	2595	Outer_Full	36.14	38.53	/	Pass
	2600	Outer_Full	36.01	38.40	/	Pass

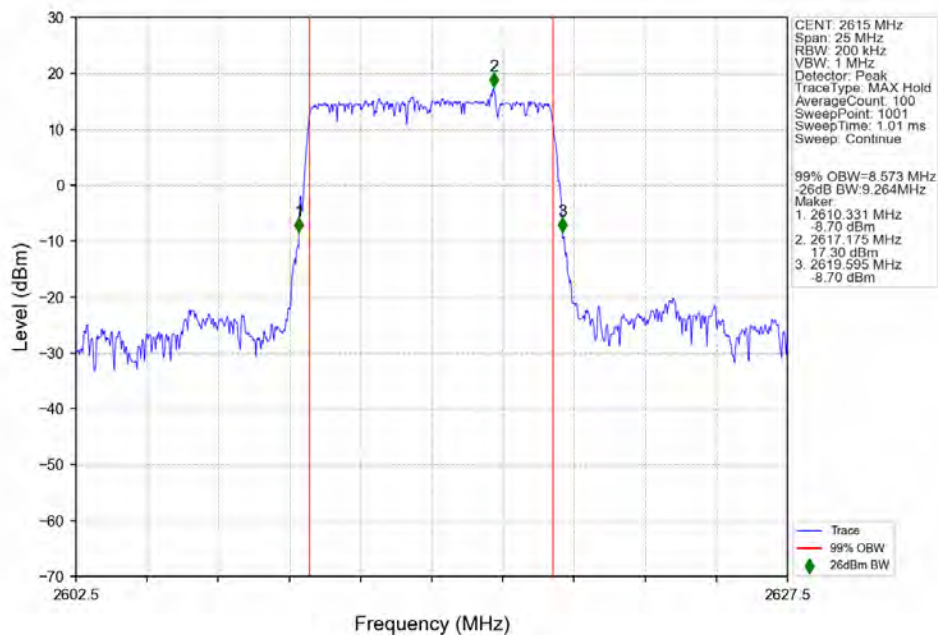
CP-OFDM QPSK	2590	Outer Full	38.04	40.51	/	Pass
	2595	Outer Full	38.06	40.53	/	Pass
	2600	Outer Full	38.09	40.62	/	Pass
CP-OFDM 16 QAM	2590	Outer Full	38.06	40.54	/	Pass
	2595	Outer Full	38.12	40.62	/	Pass
	2600	Outer Full	38.11	40.48	/	Pass
CP-OFDM 64 QAM	2590	Outer Full	38.10	40.48	/	Pass
	2595	Outer Full	38.12	40.47	/	Pass
	2600	Outer Full	38.13	40.52	/	Pass
CP-OFDM 256 QAM	2590	Outer Full	38.16	40.58	/	Pass
	2595	Outer Full	38.10	40.48	/	Pass
	2600	Outer Full	38.10	40.56	/	Pass

3.2 Test Graph

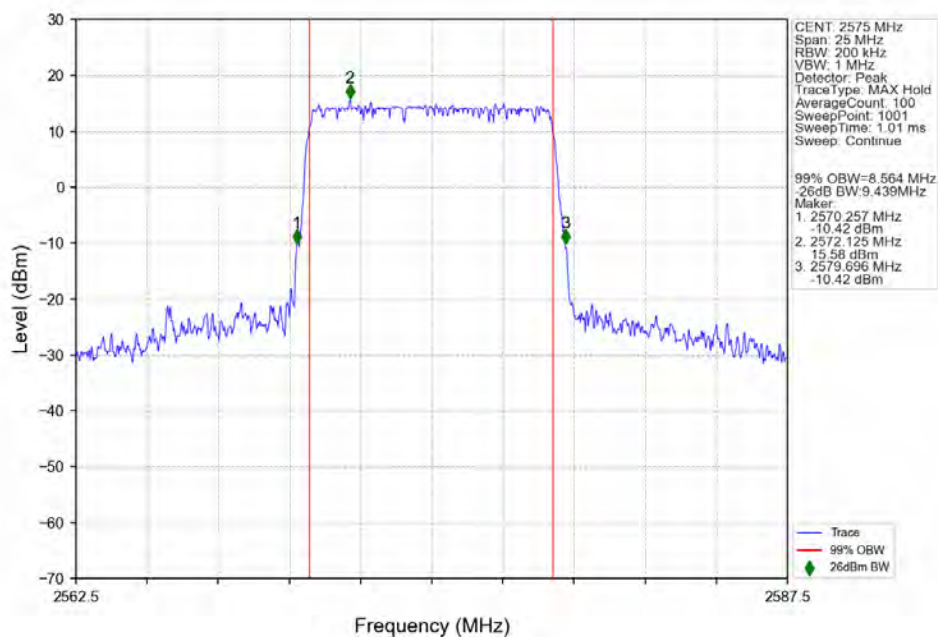
3.2.1 30k_SISO_10MHz_NTNV



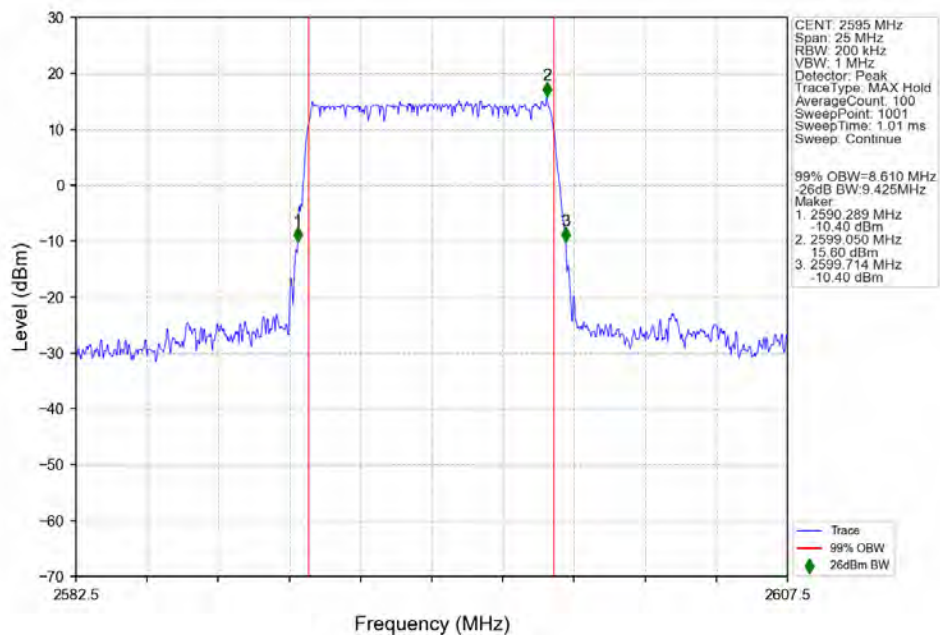
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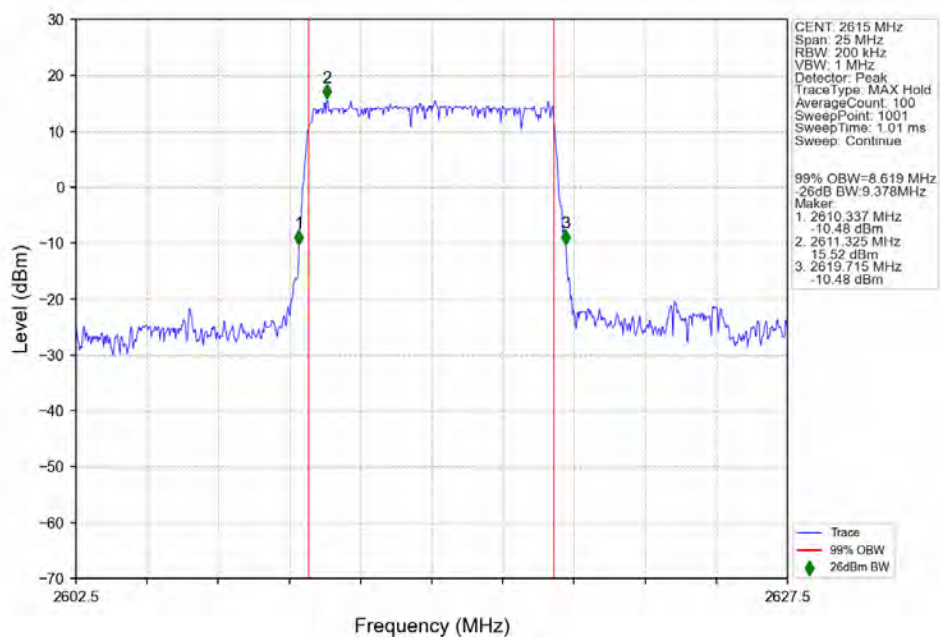
n38 30kHz SISO NTN 10MHz DFT-s-OFDM QPSK 2575MHz Outer Full Ant1



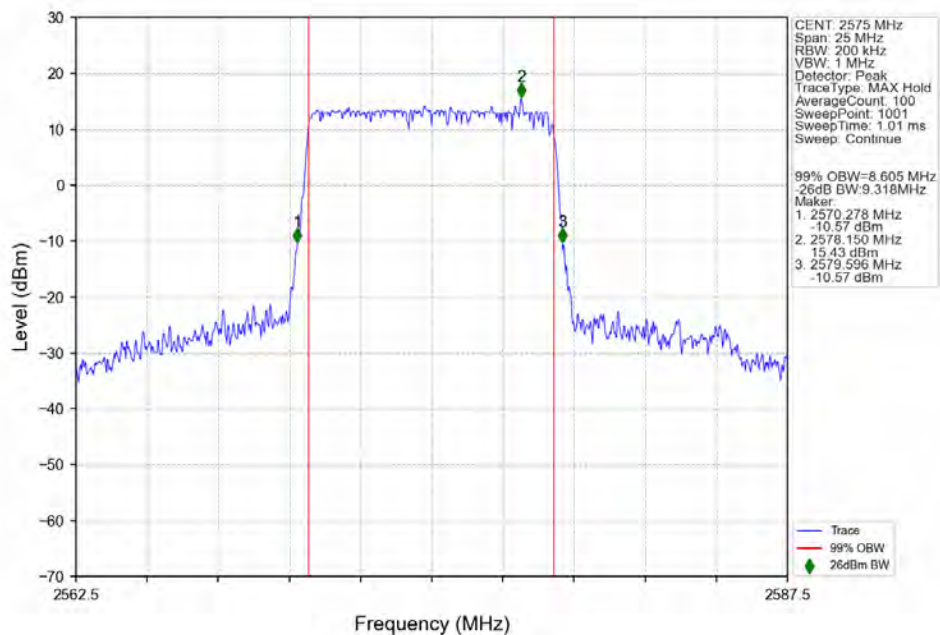
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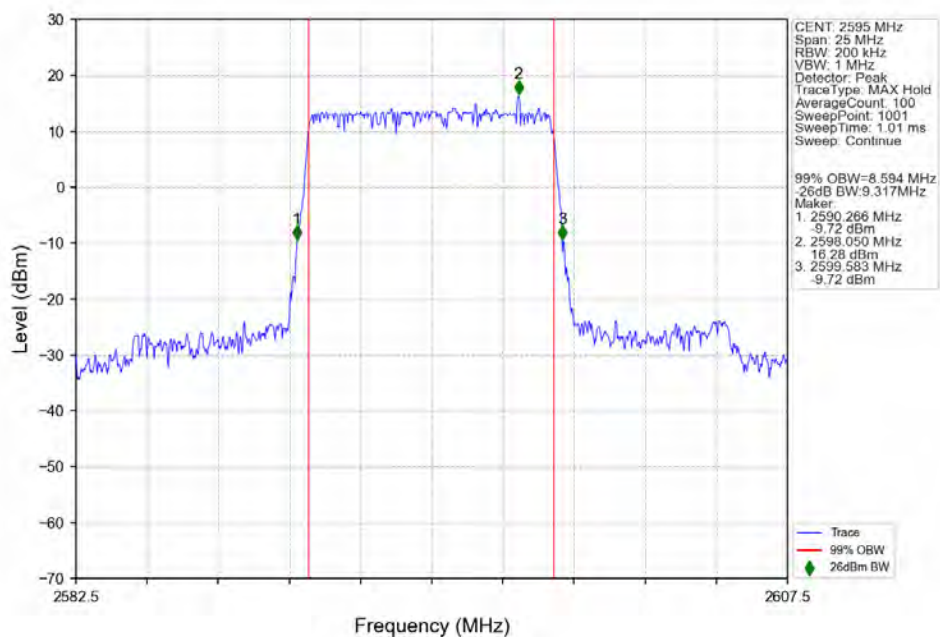
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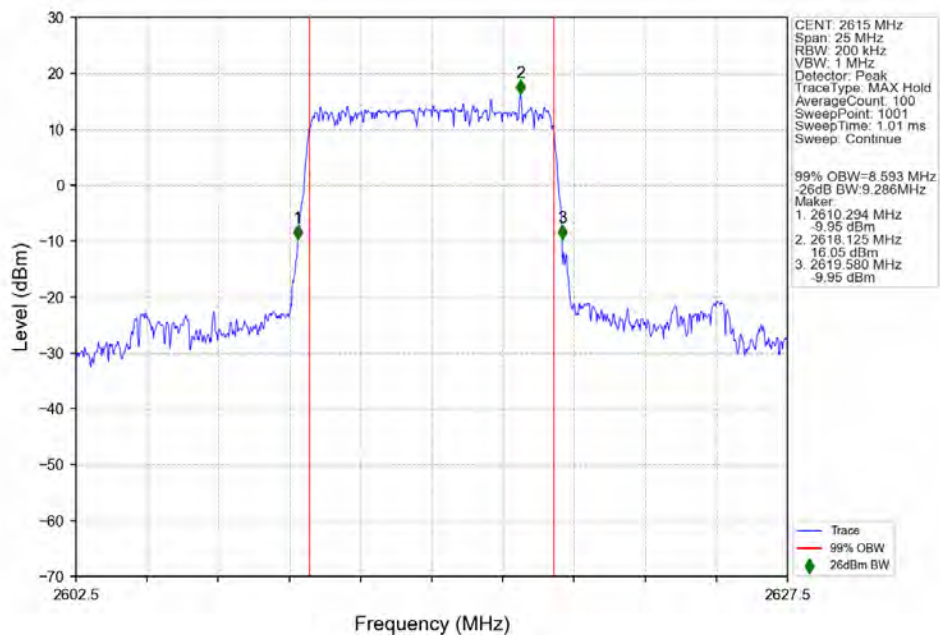
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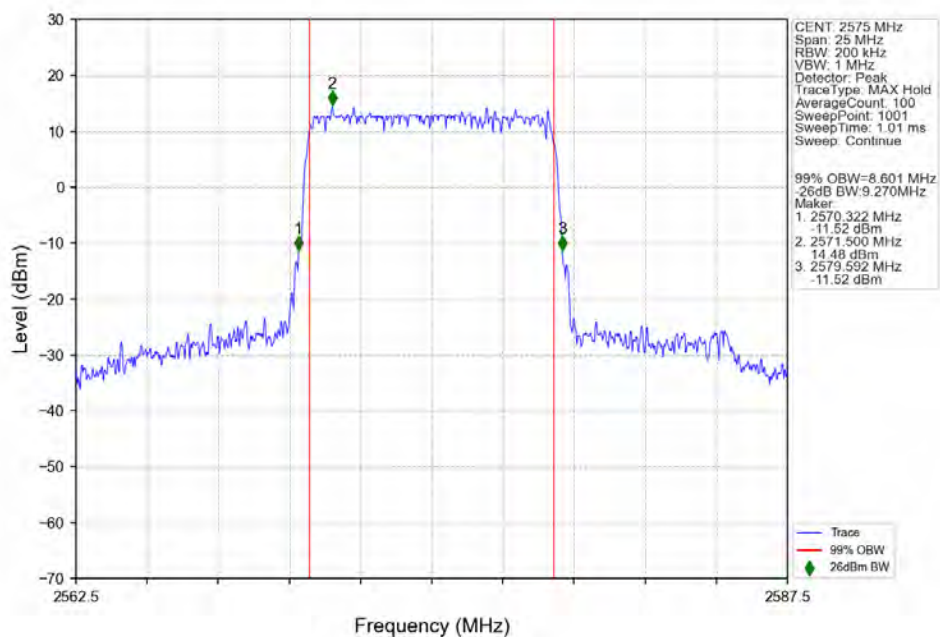
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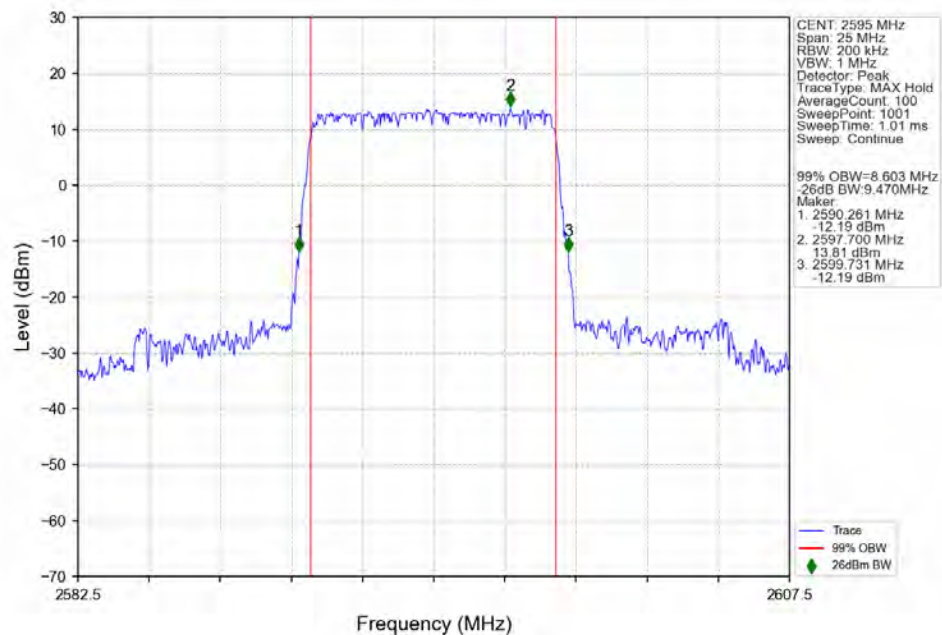
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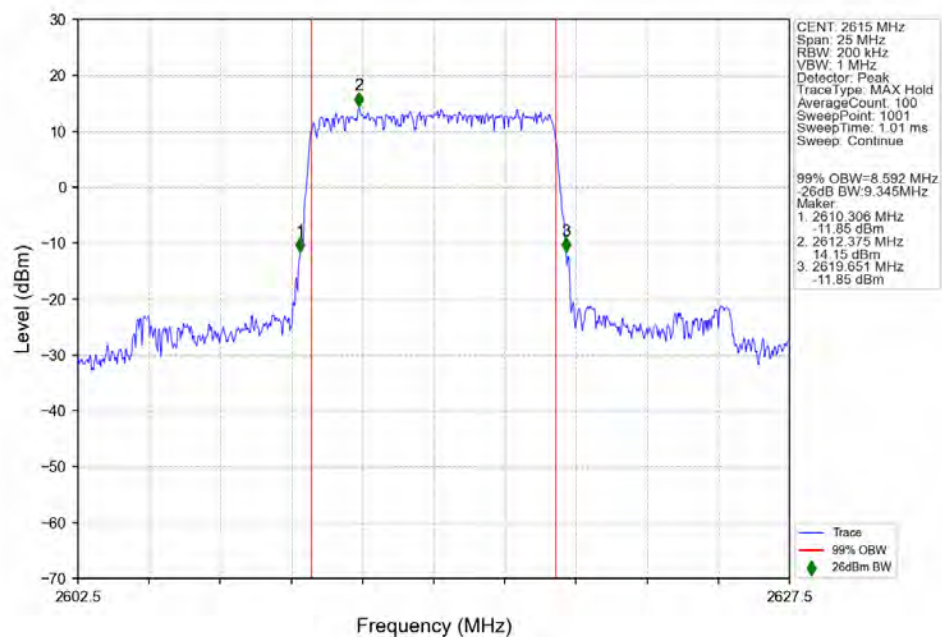
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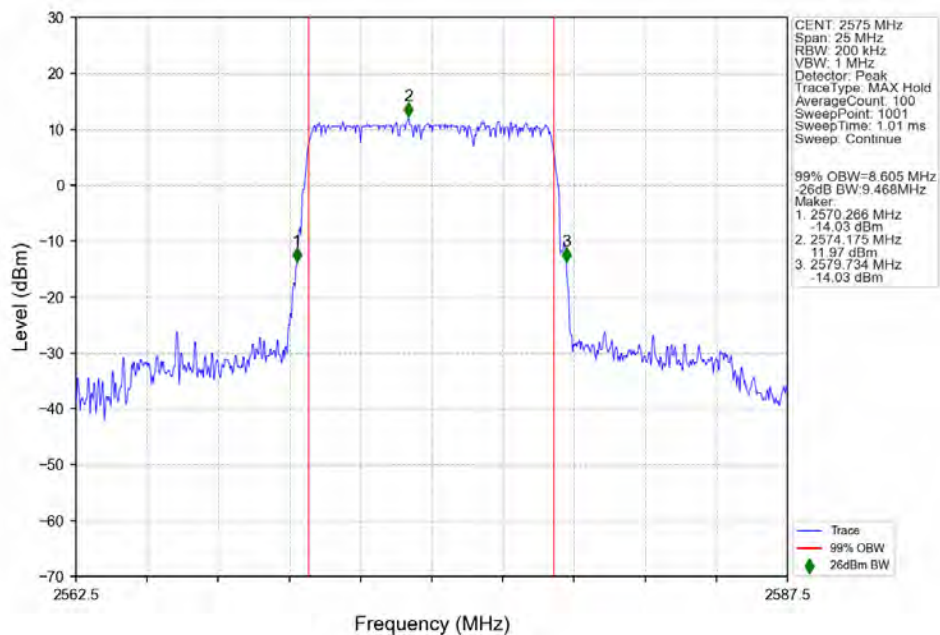
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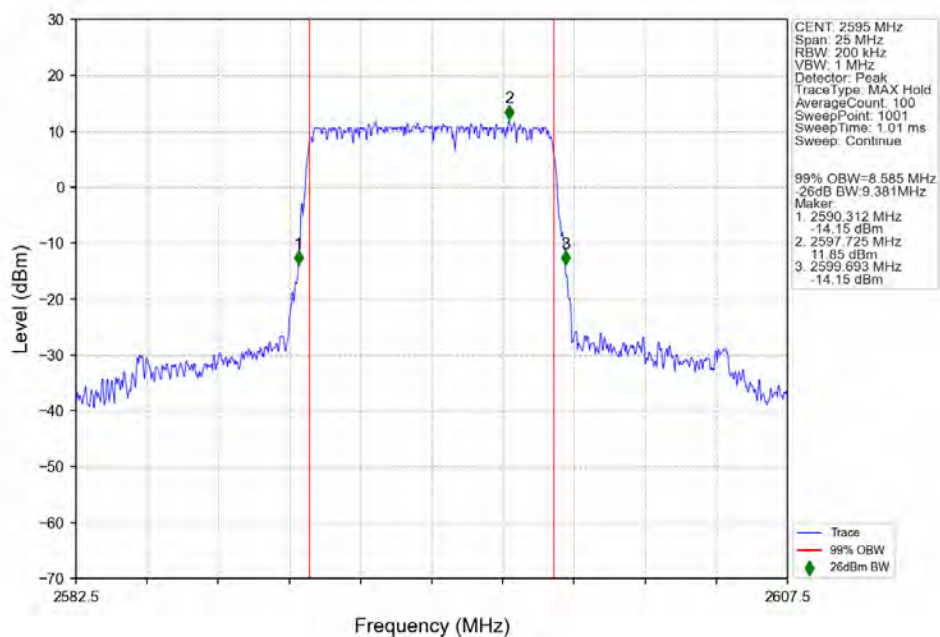
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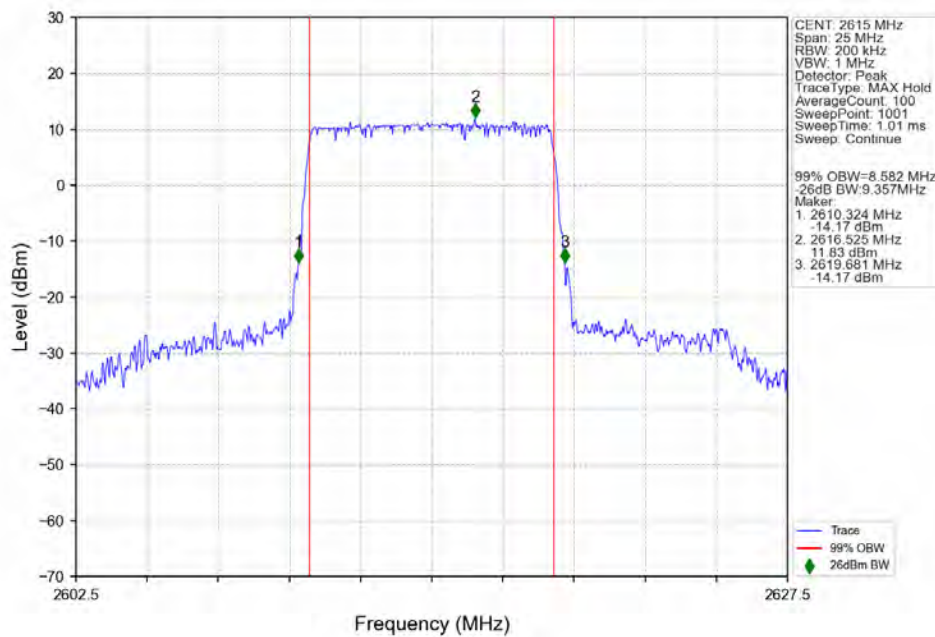
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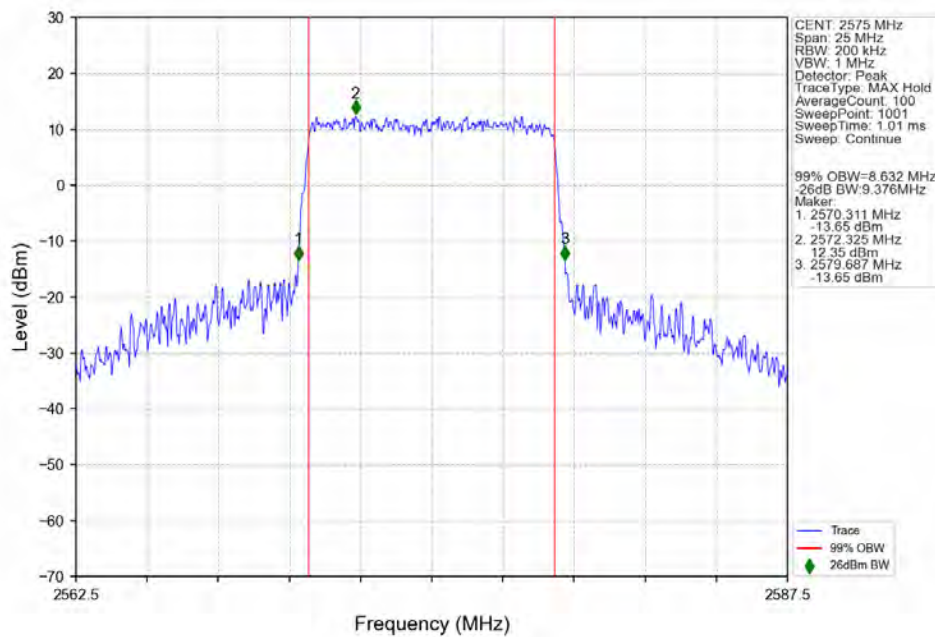
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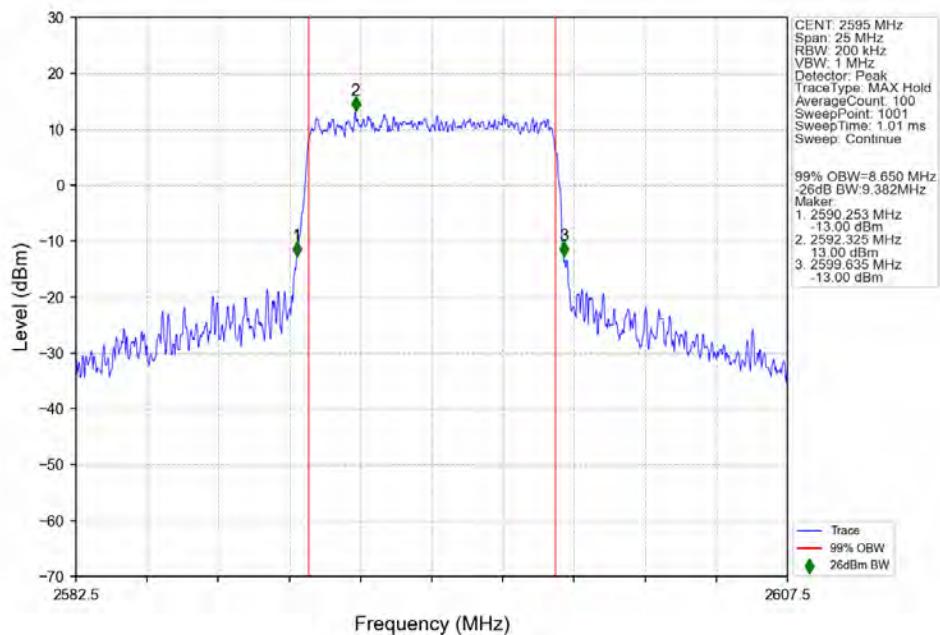
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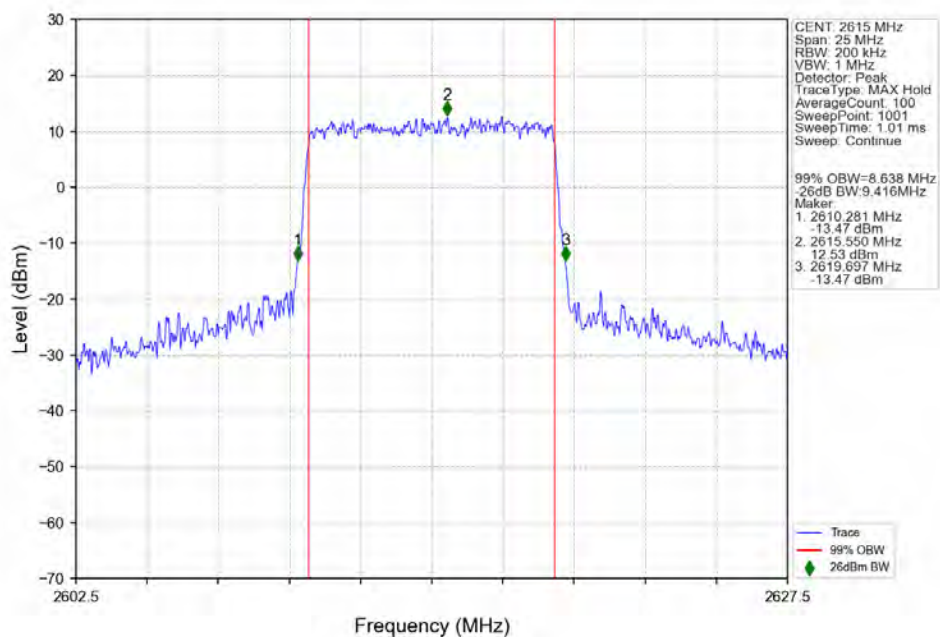
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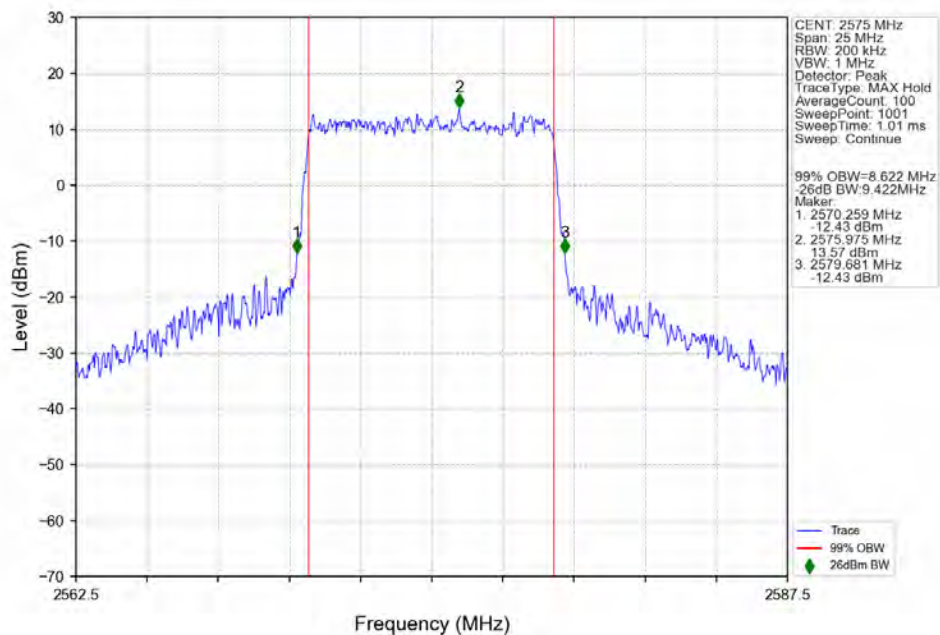
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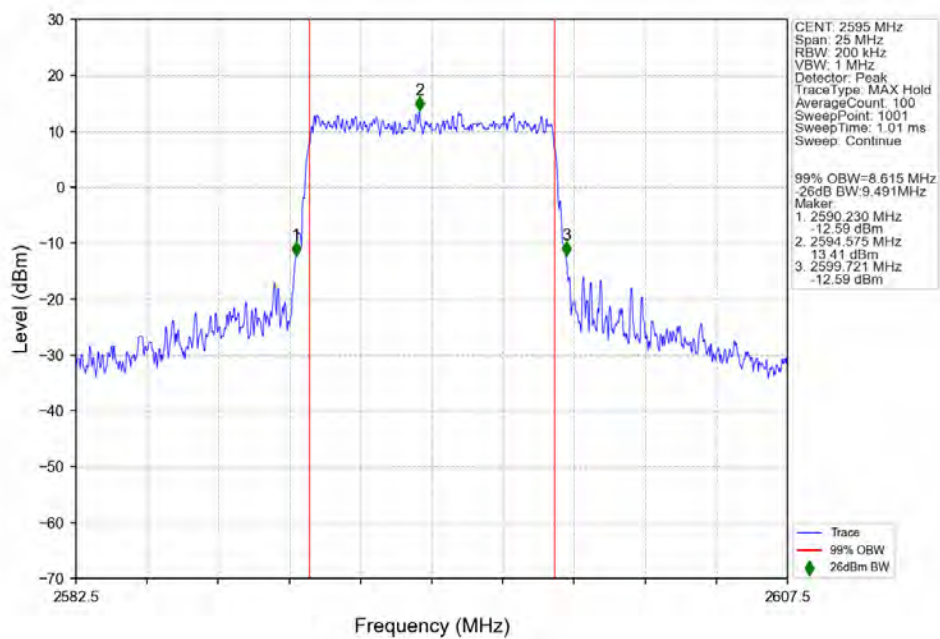
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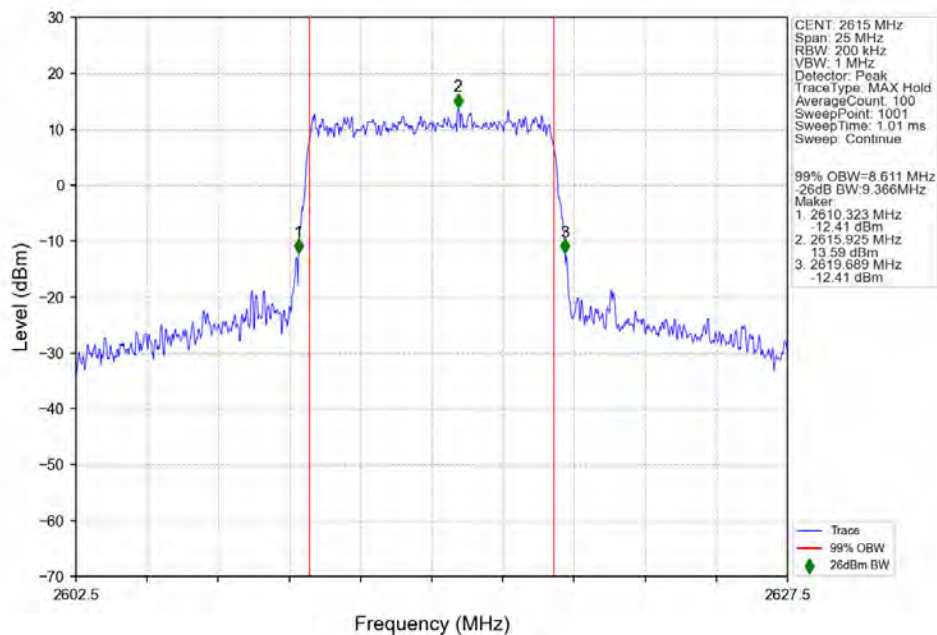
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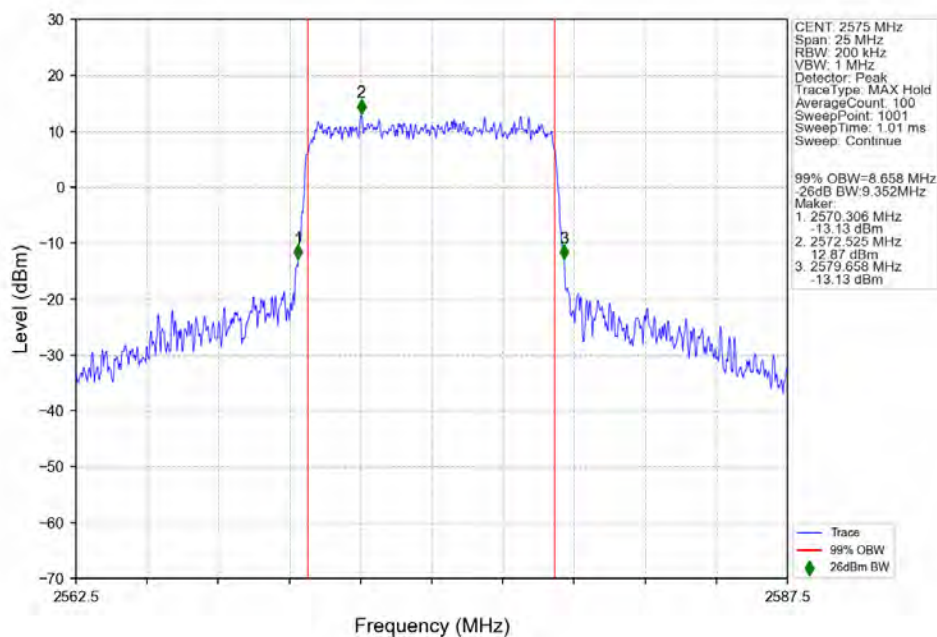
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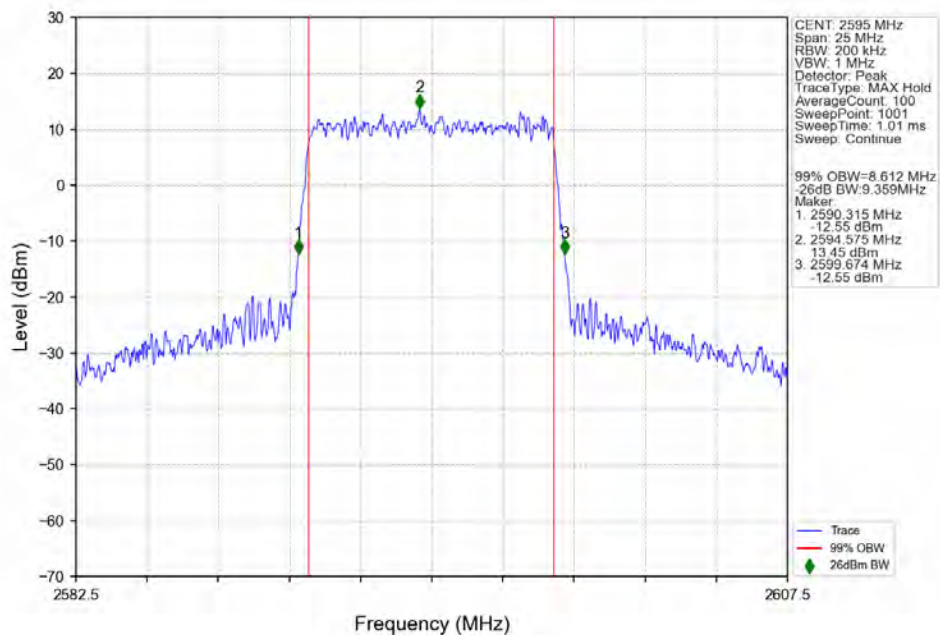
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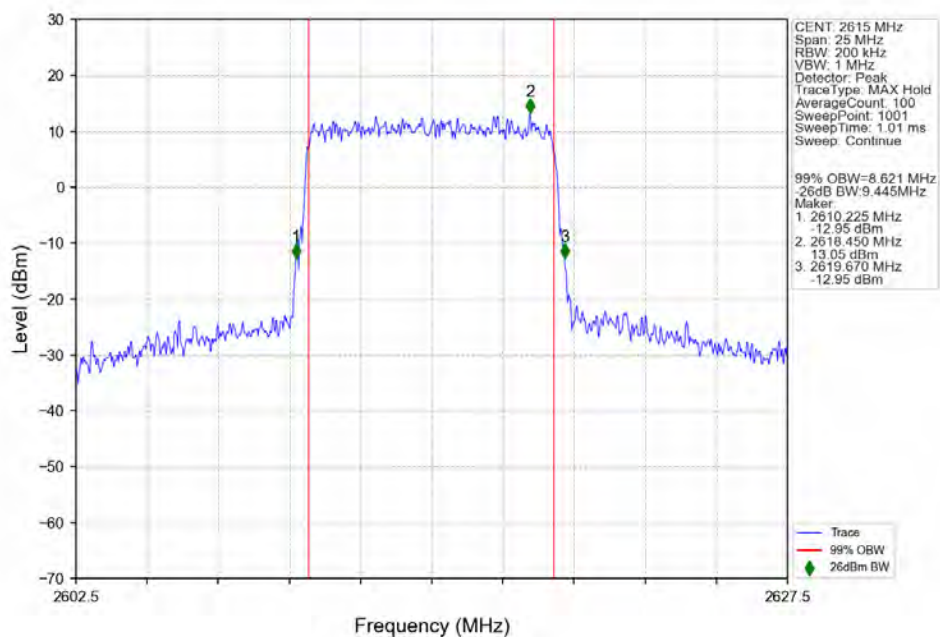
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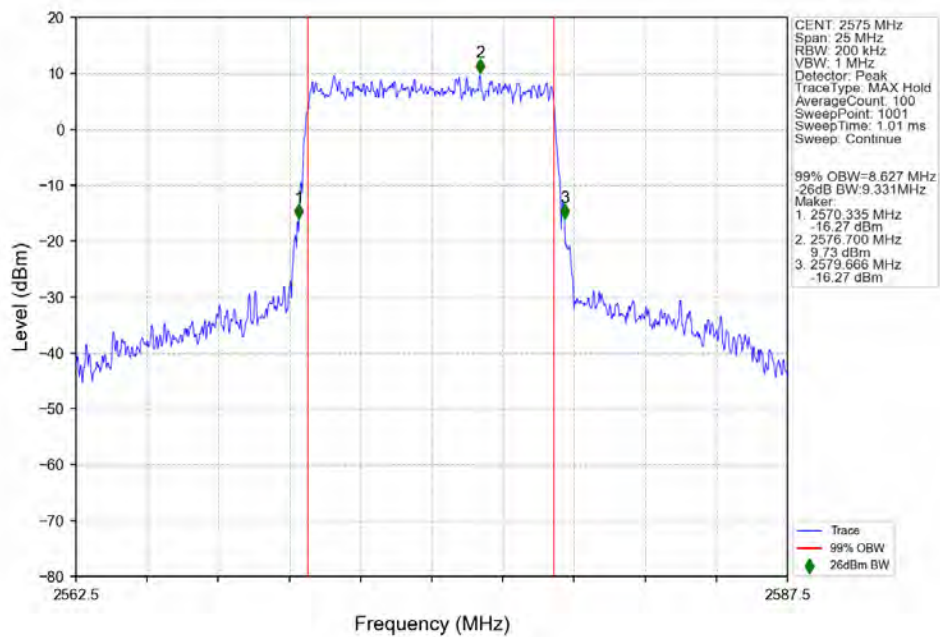
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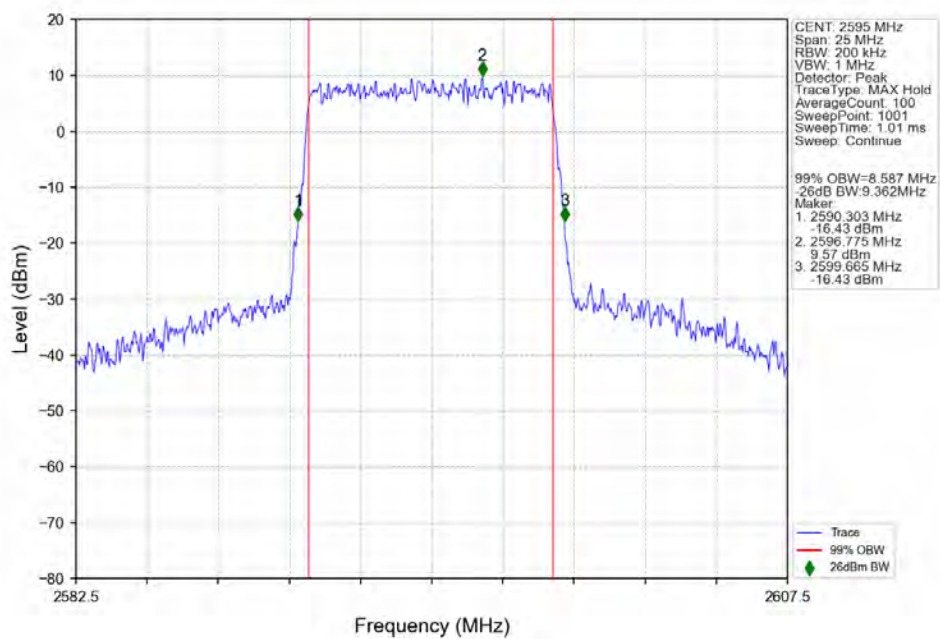
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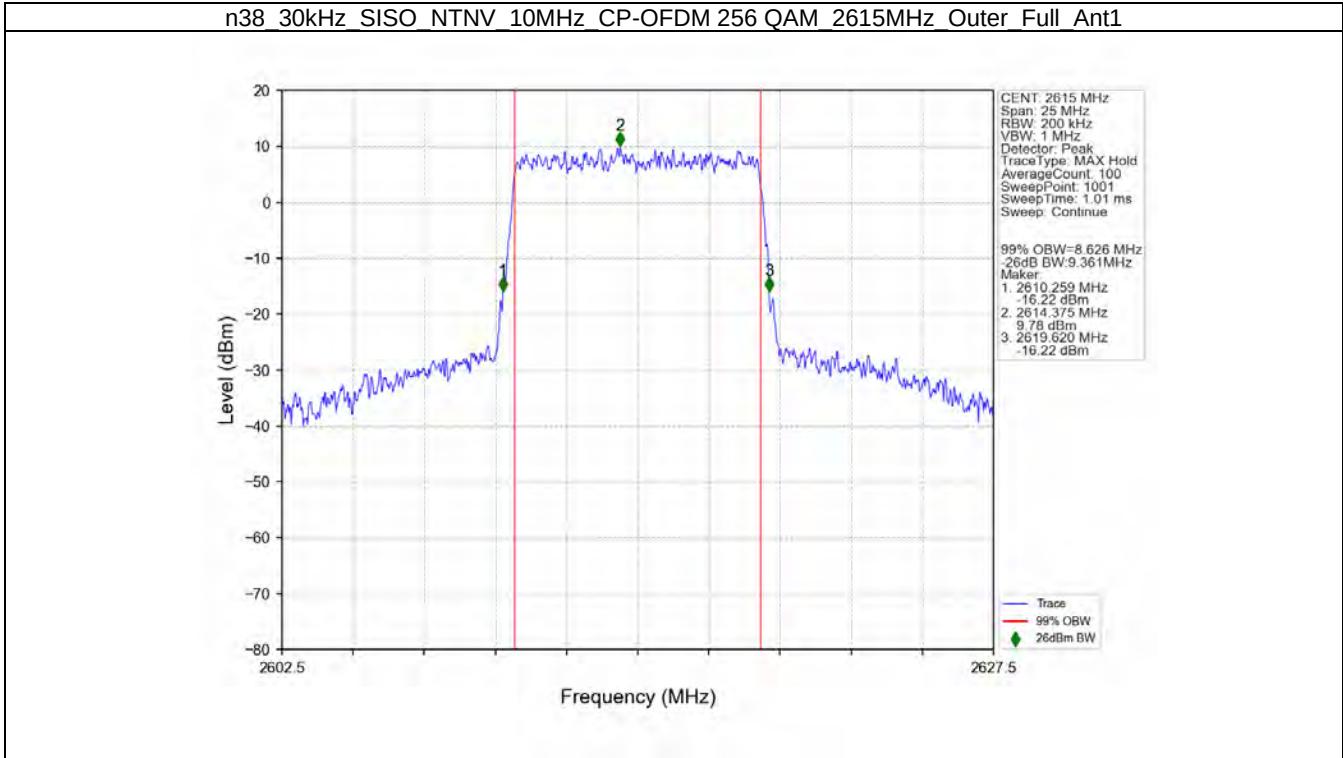


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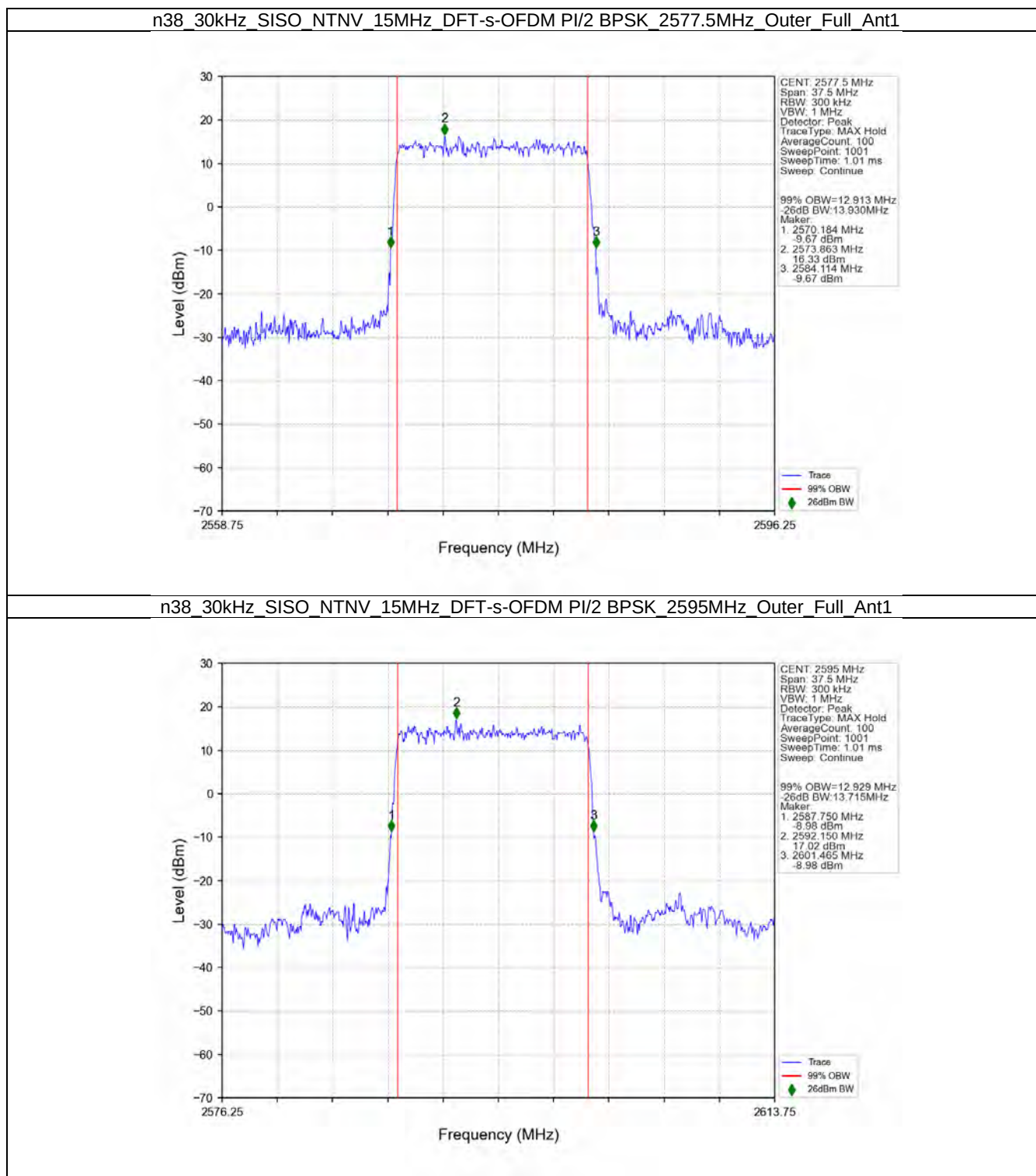


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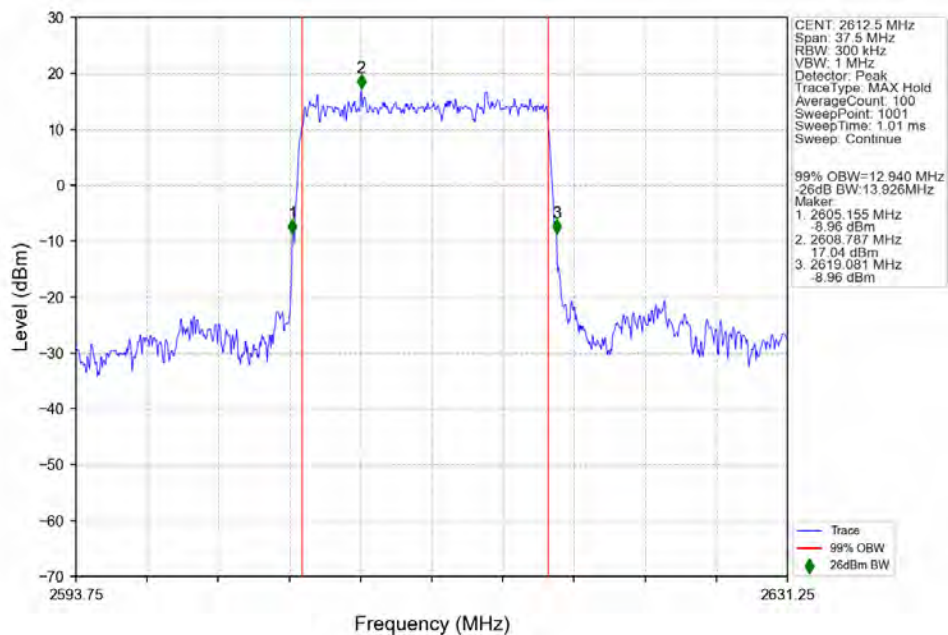




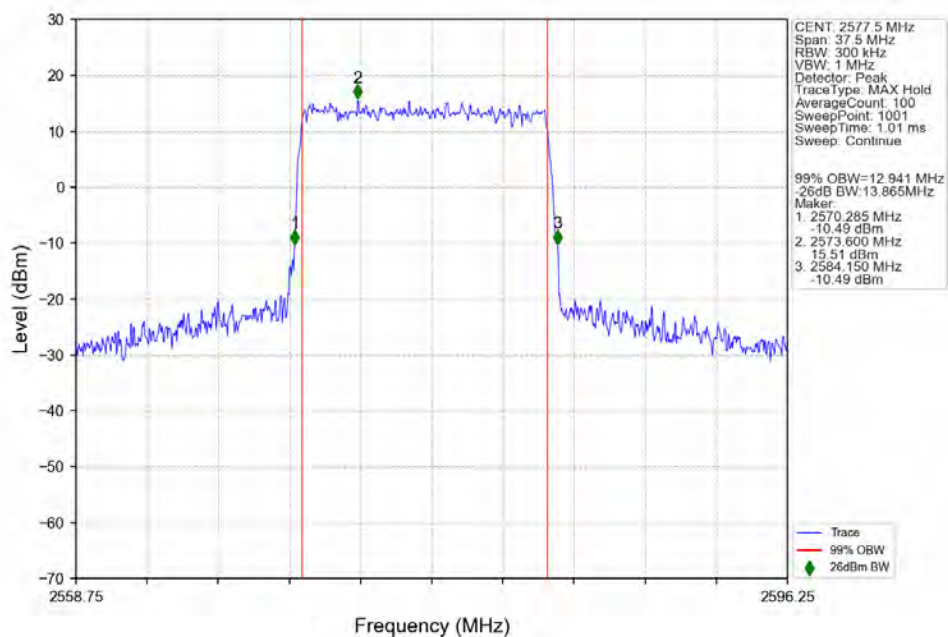
3.2.2 30k_SISO_15MHz_NTNV



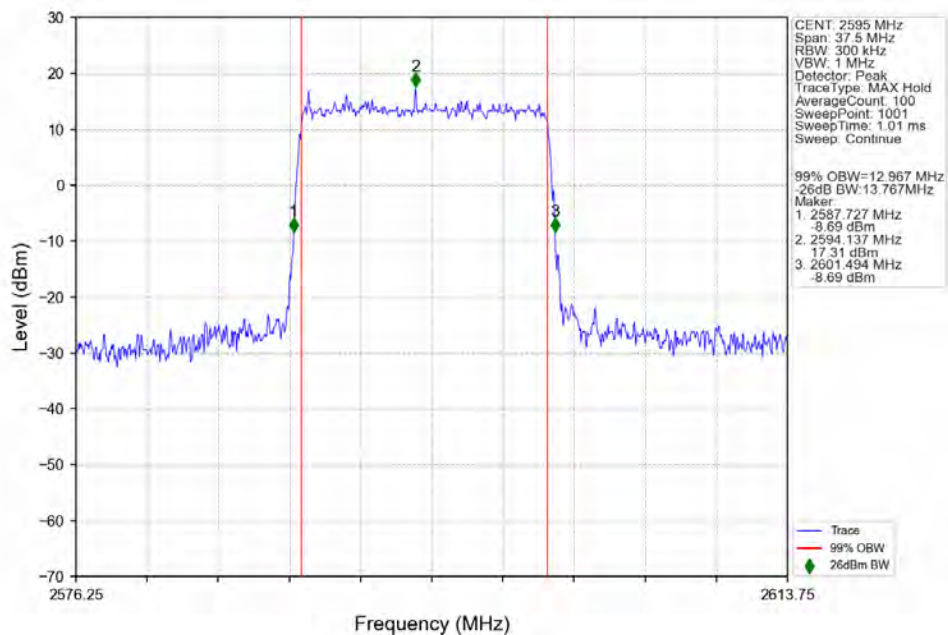
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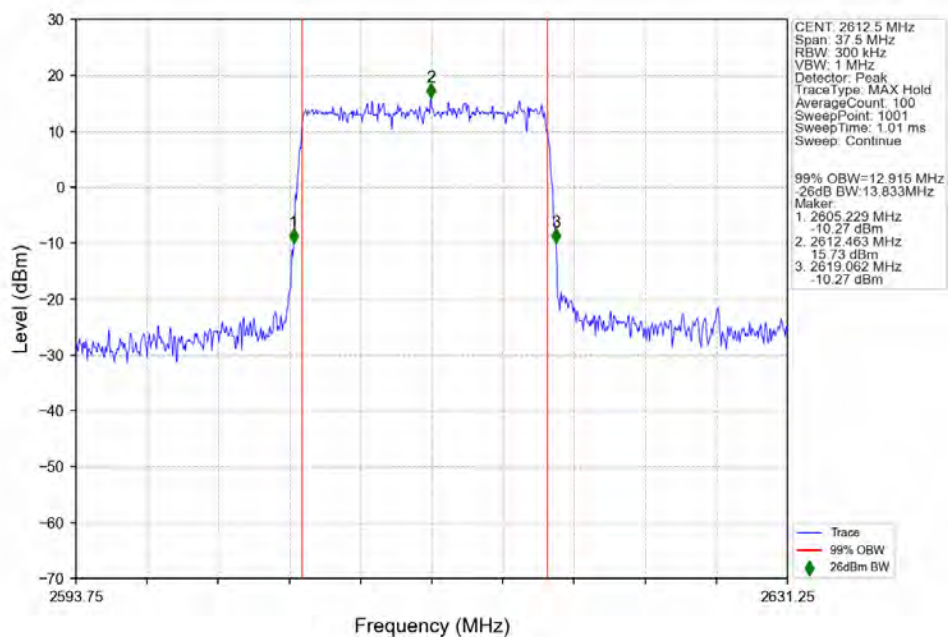
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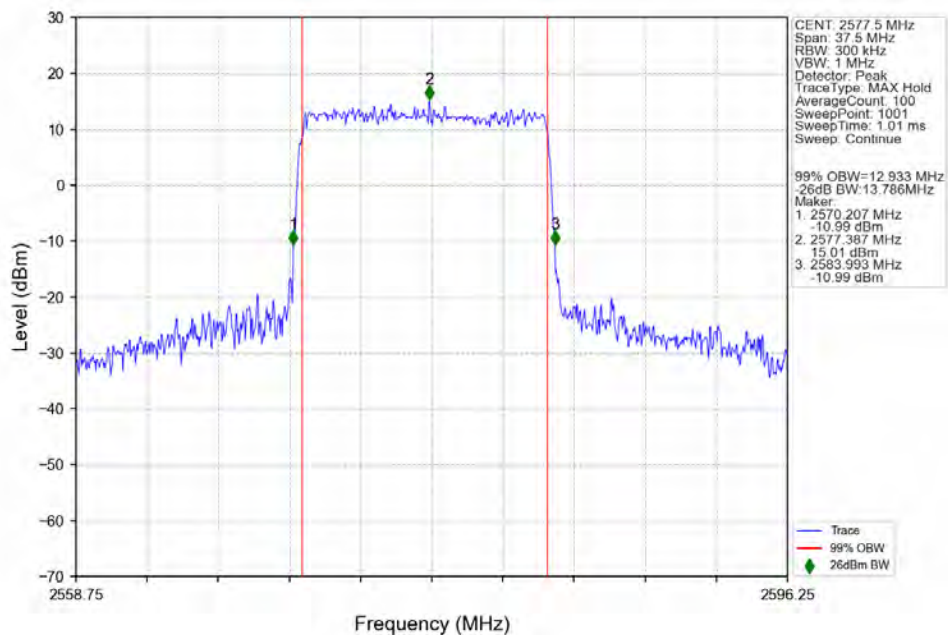
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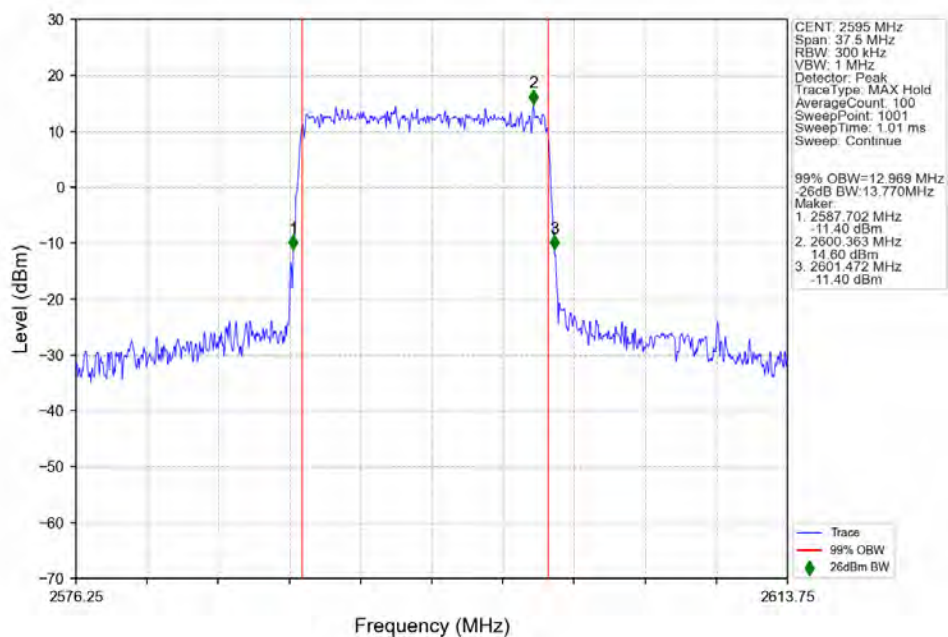
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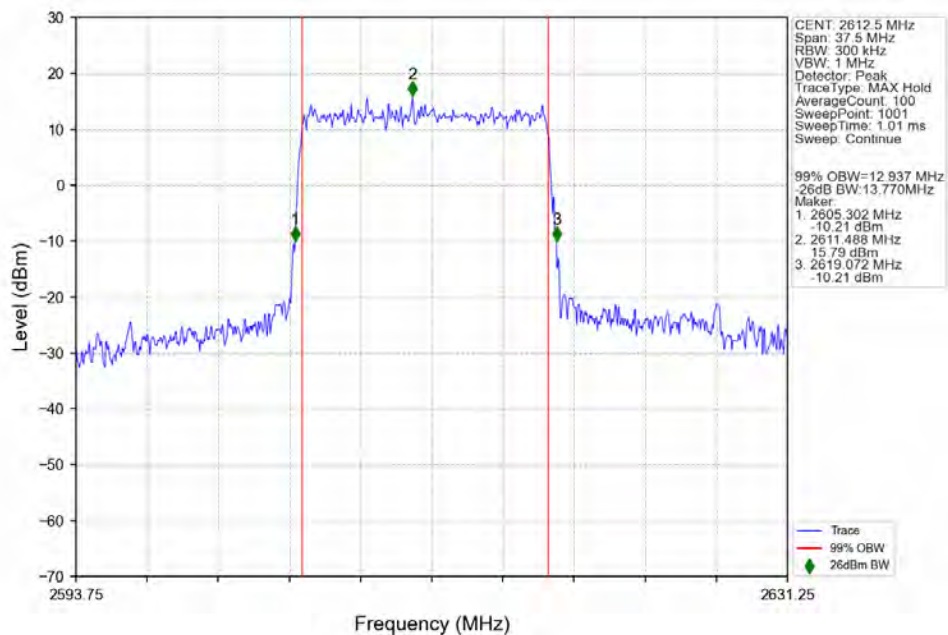
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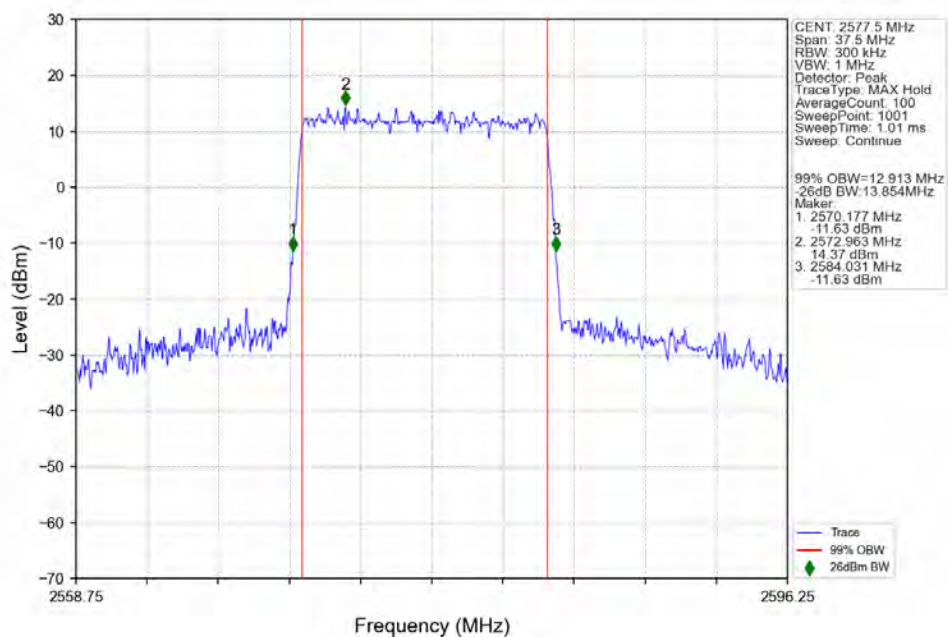
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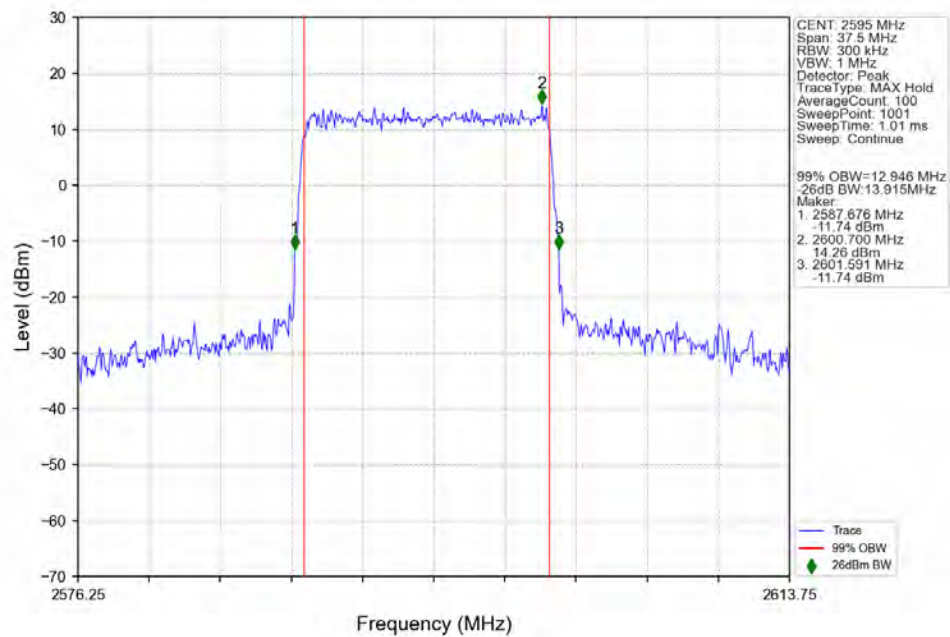
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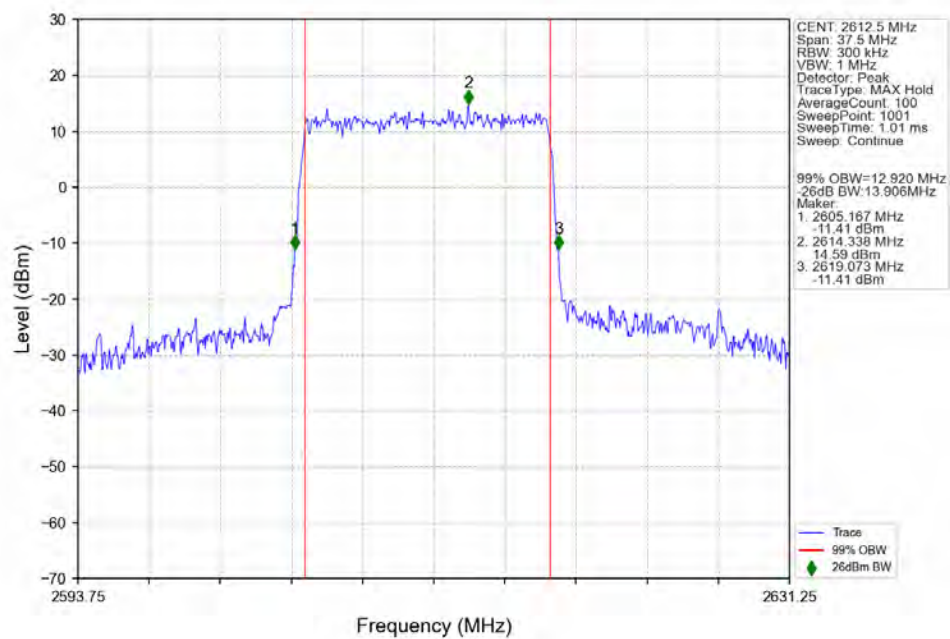
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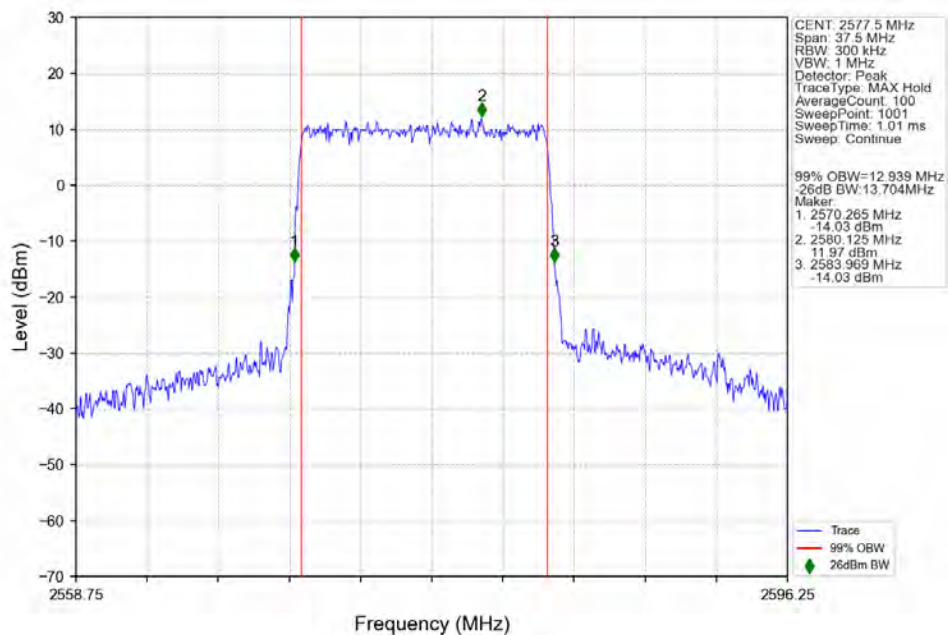
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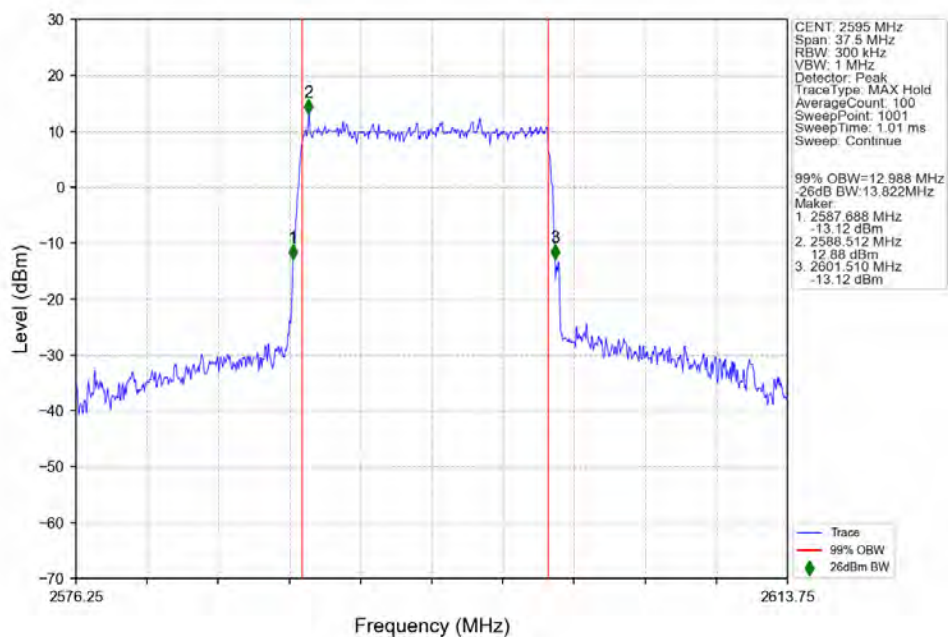
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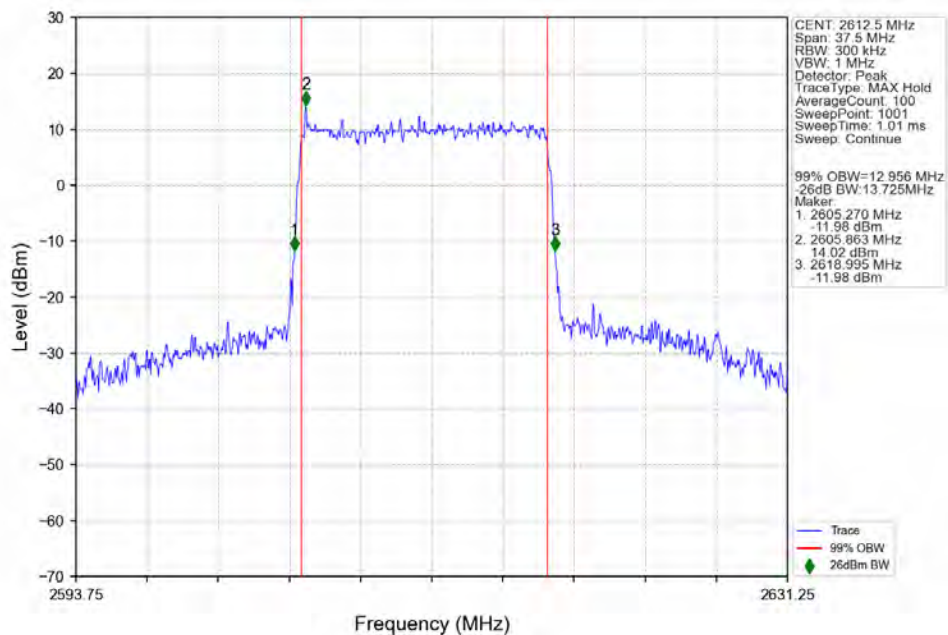
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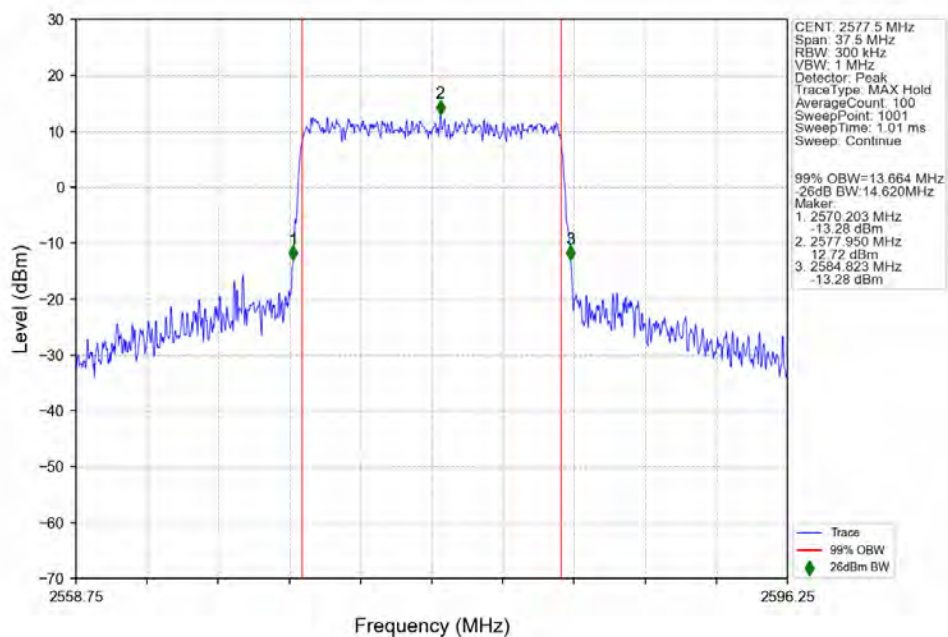
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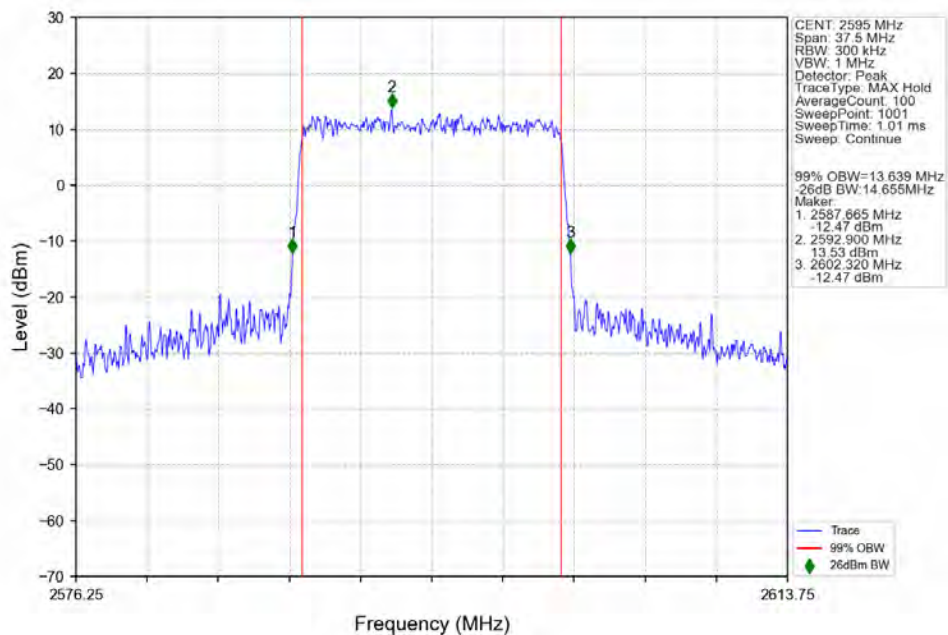
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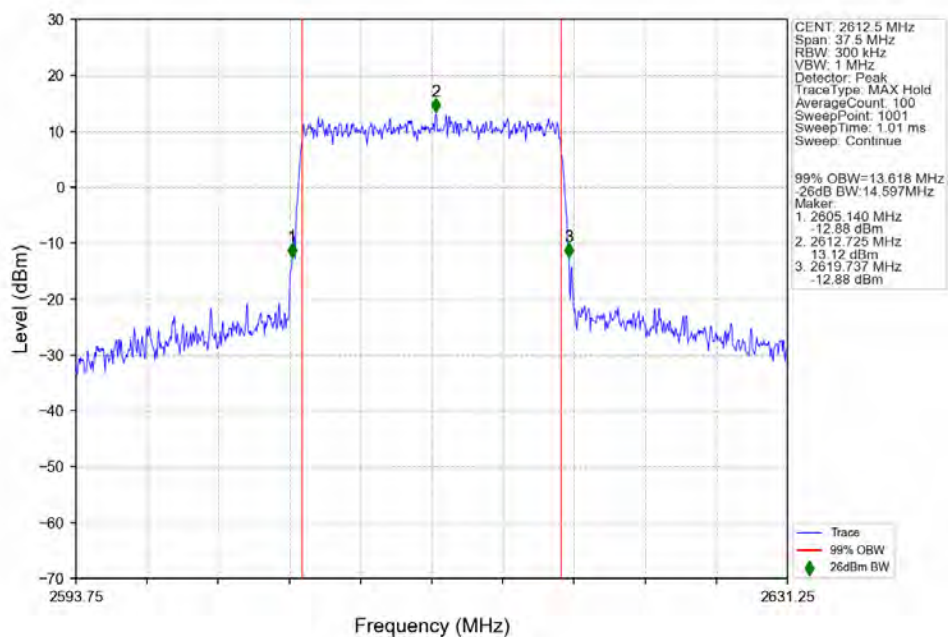
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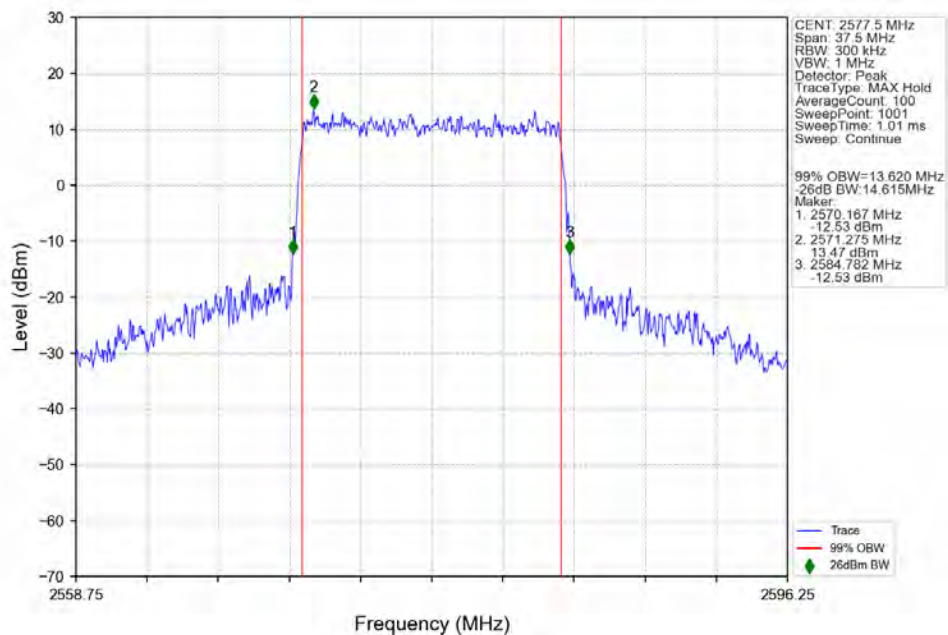
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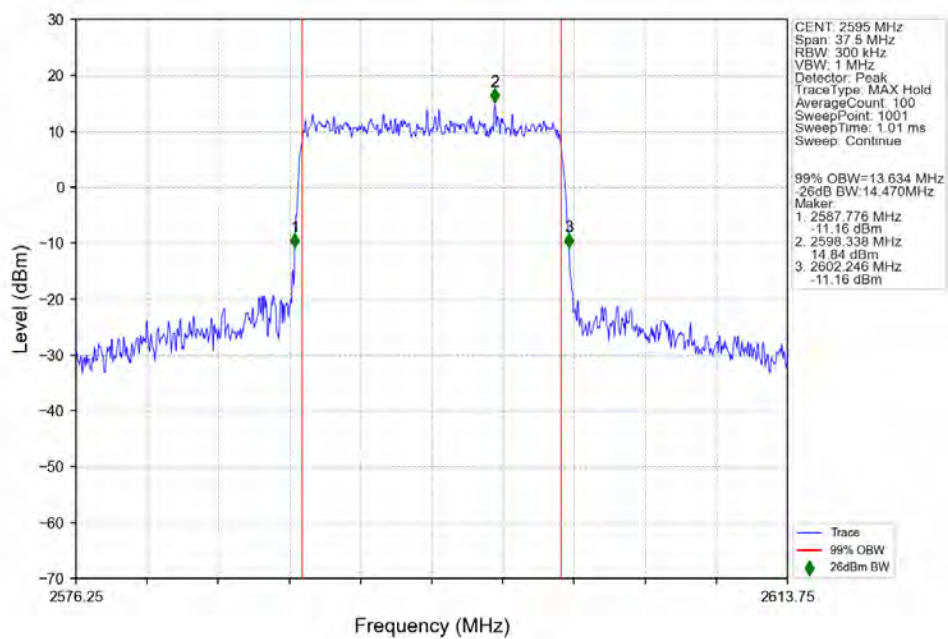
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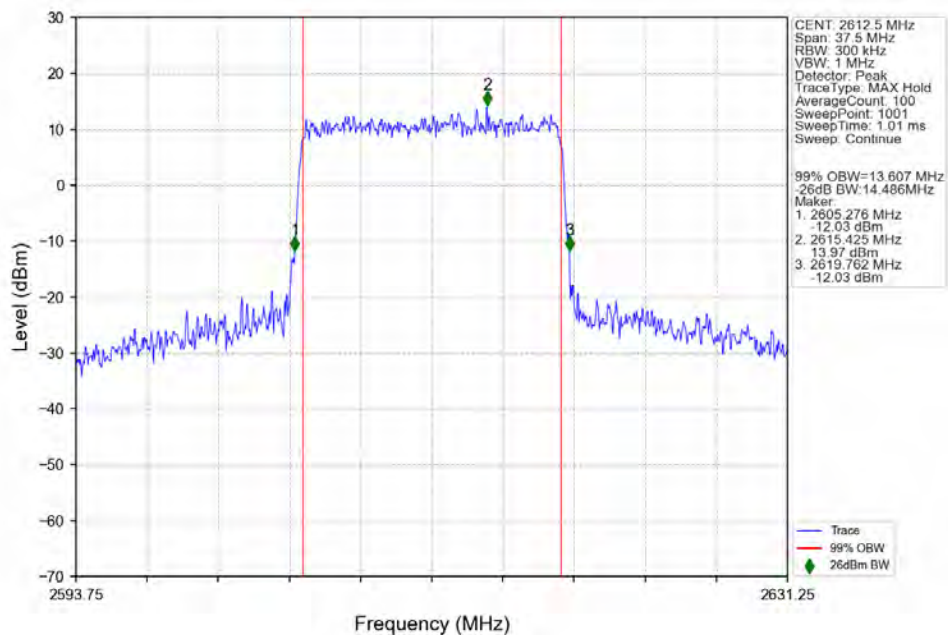
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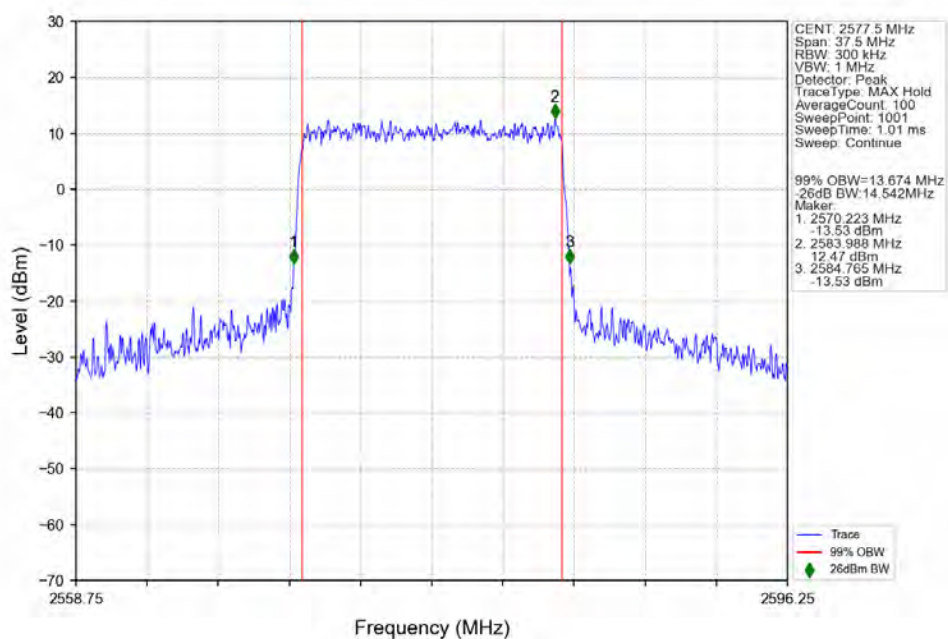
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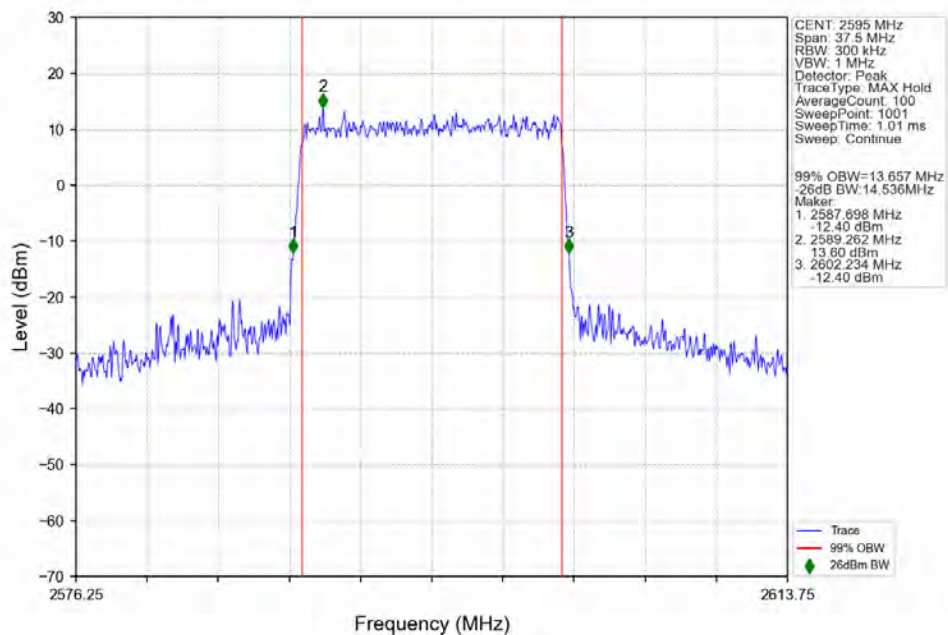
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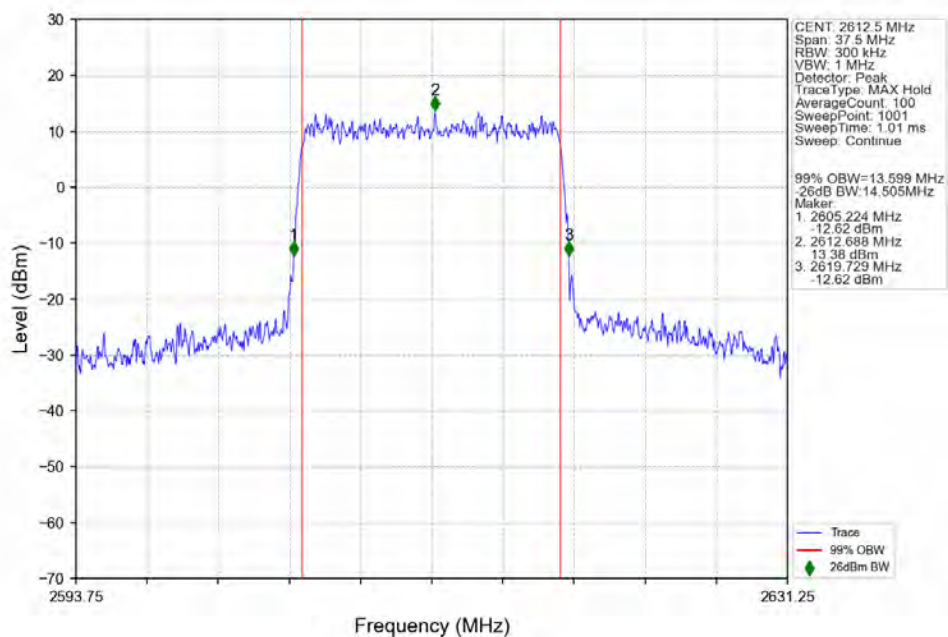
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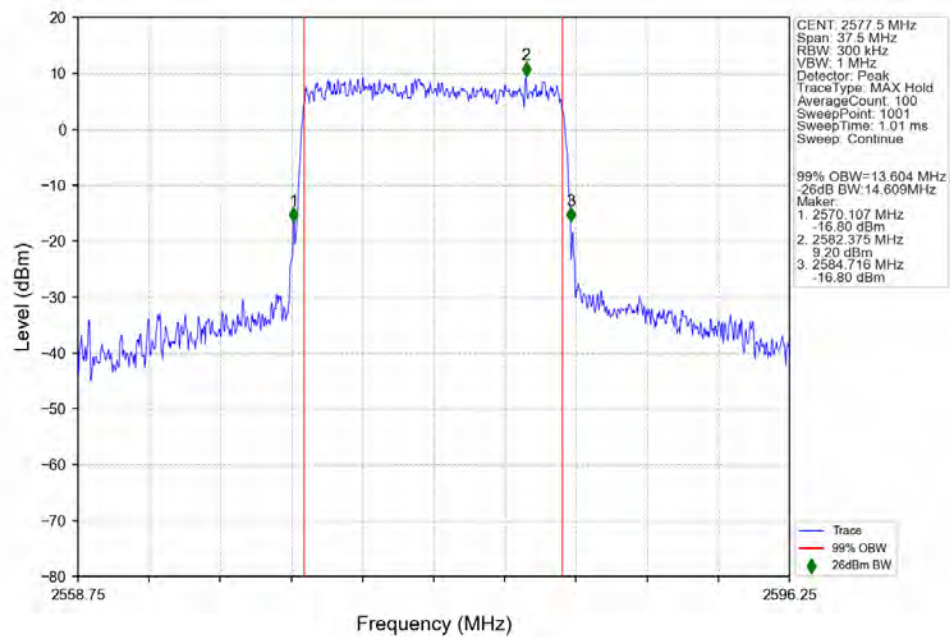
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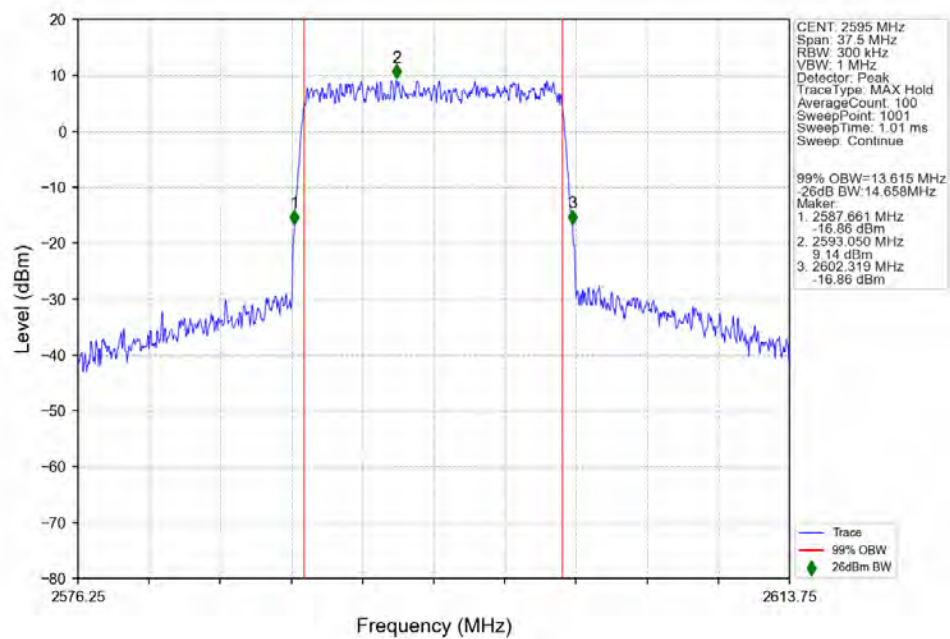
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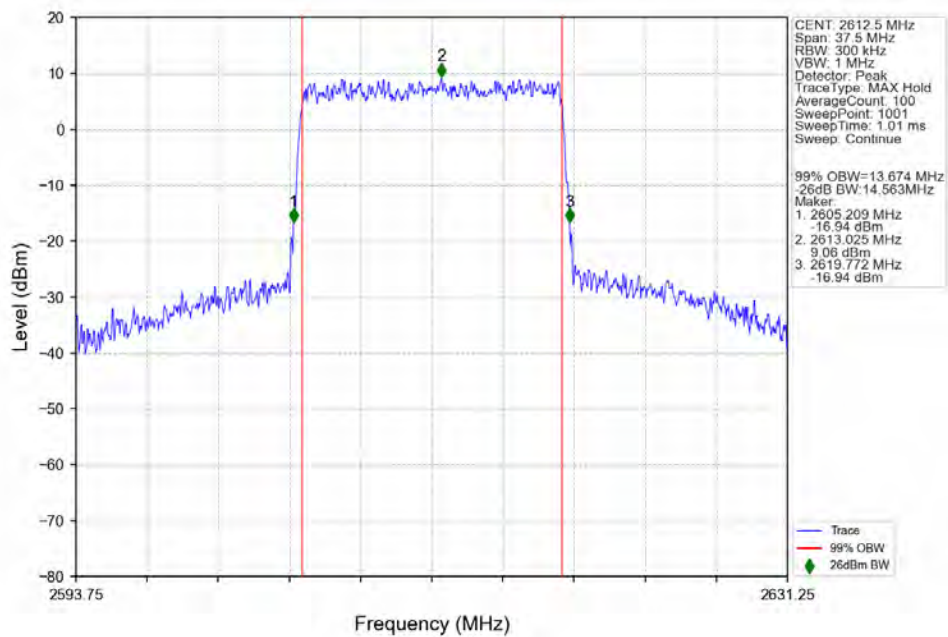
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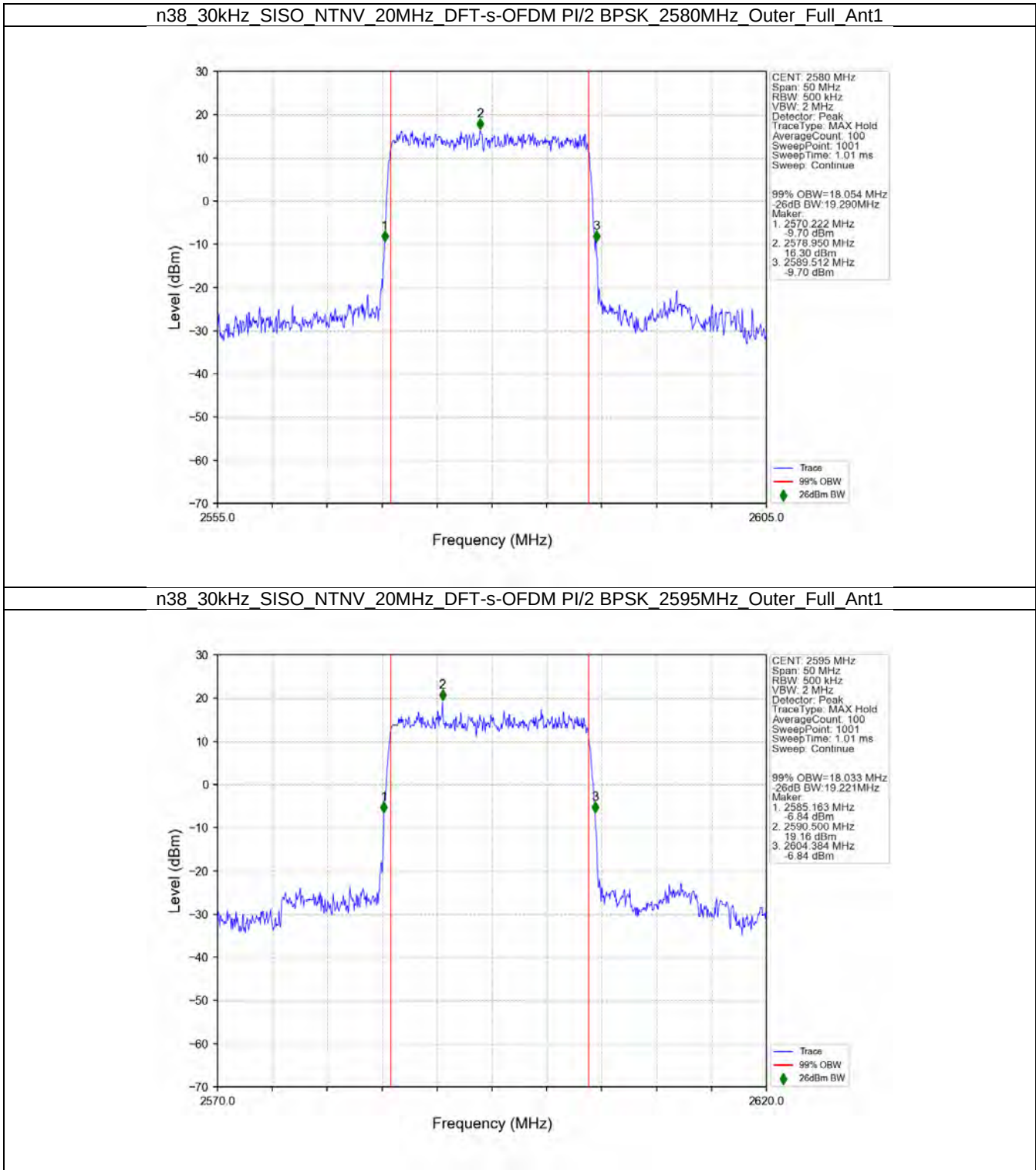
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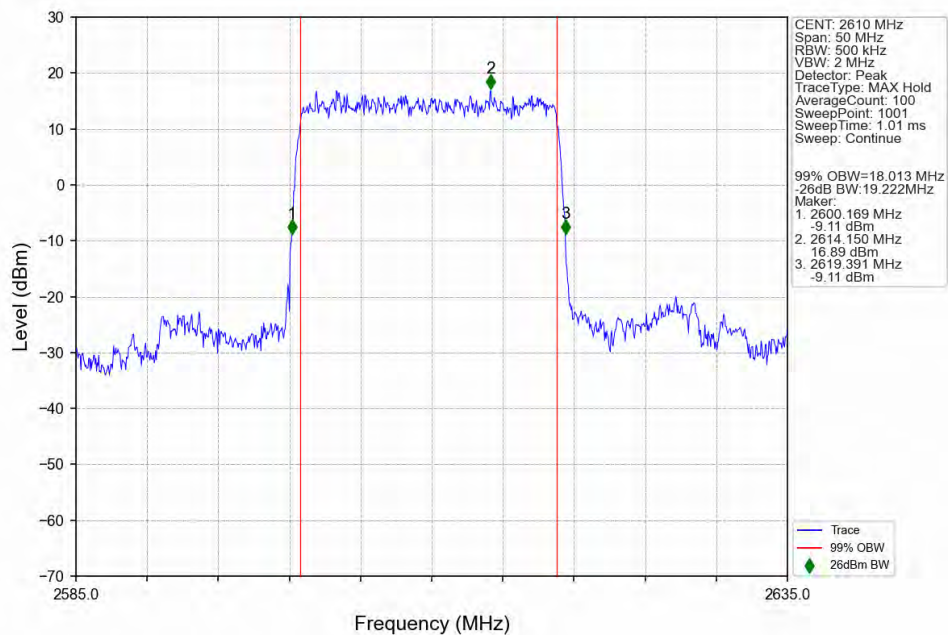
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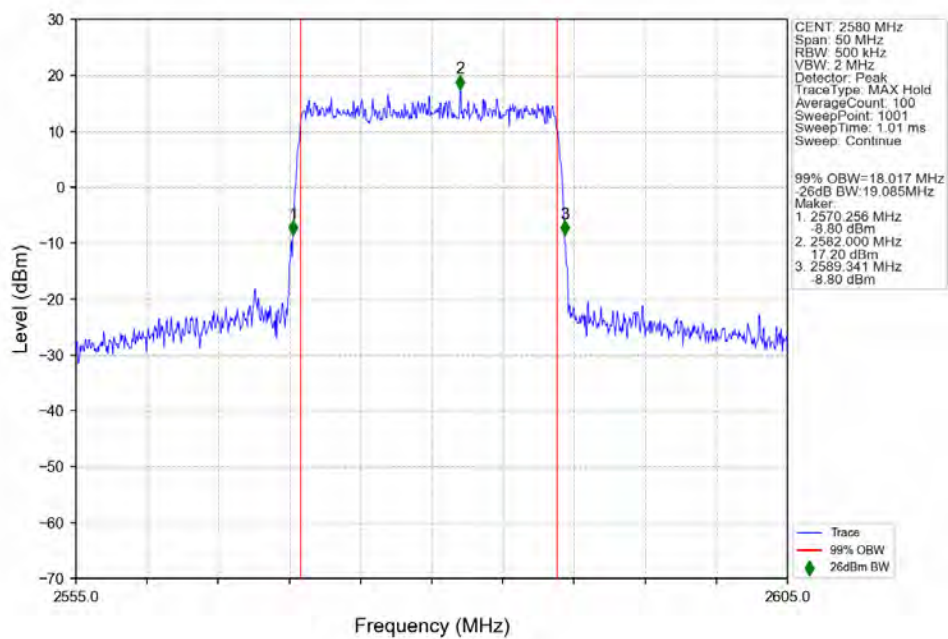
3.2.3 30k_SISO_20MHz_NTNV



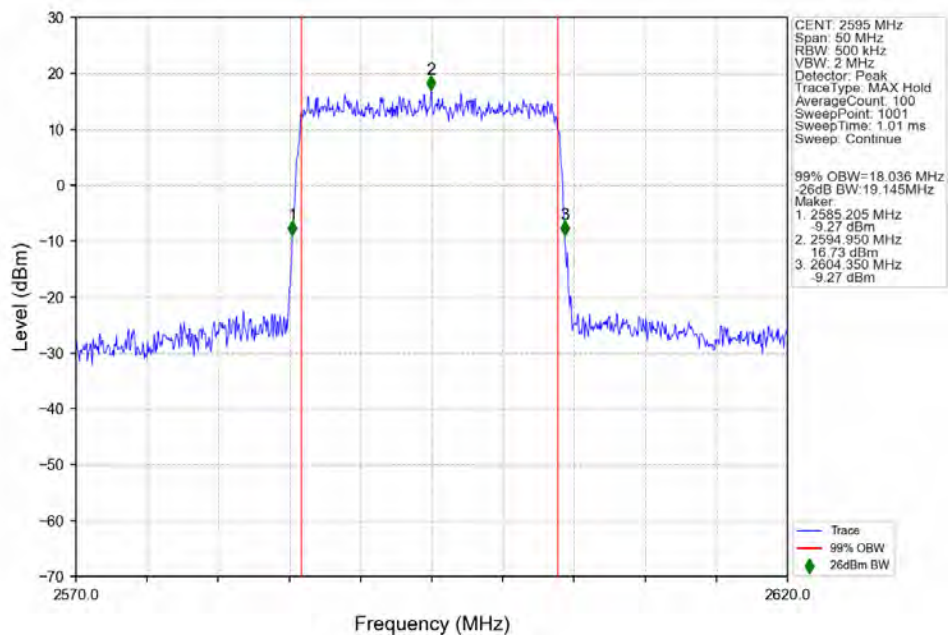
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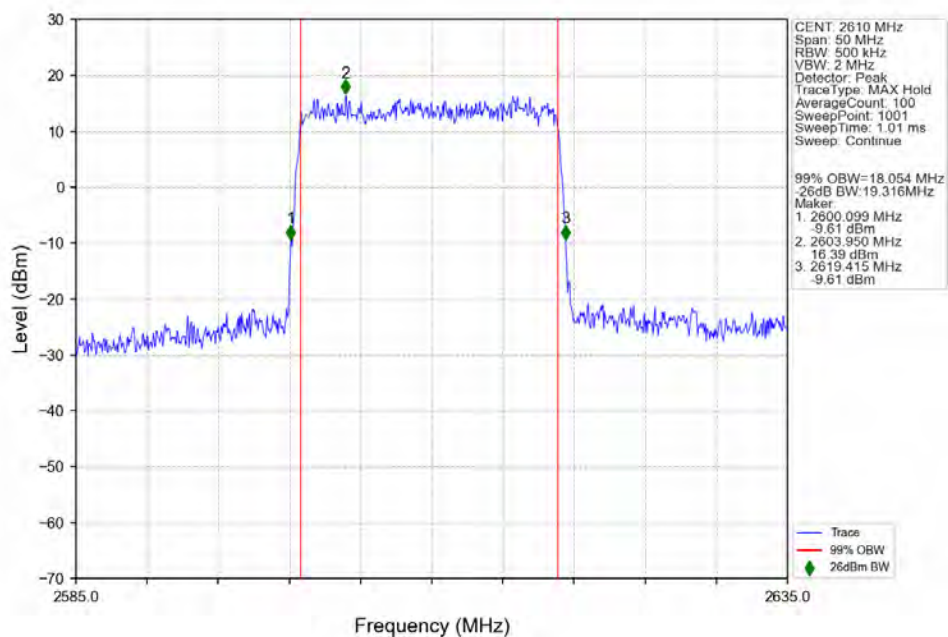
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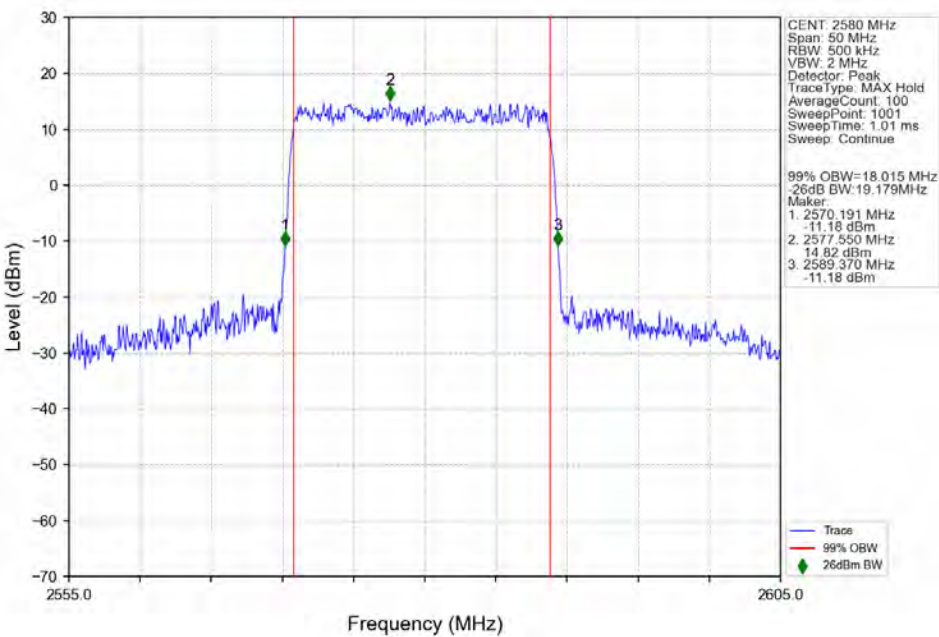
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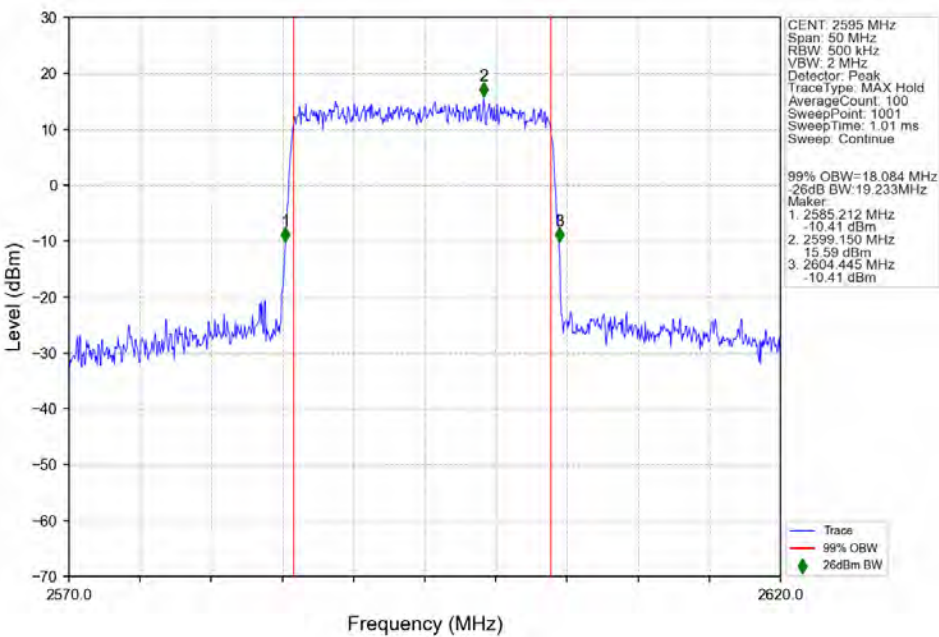
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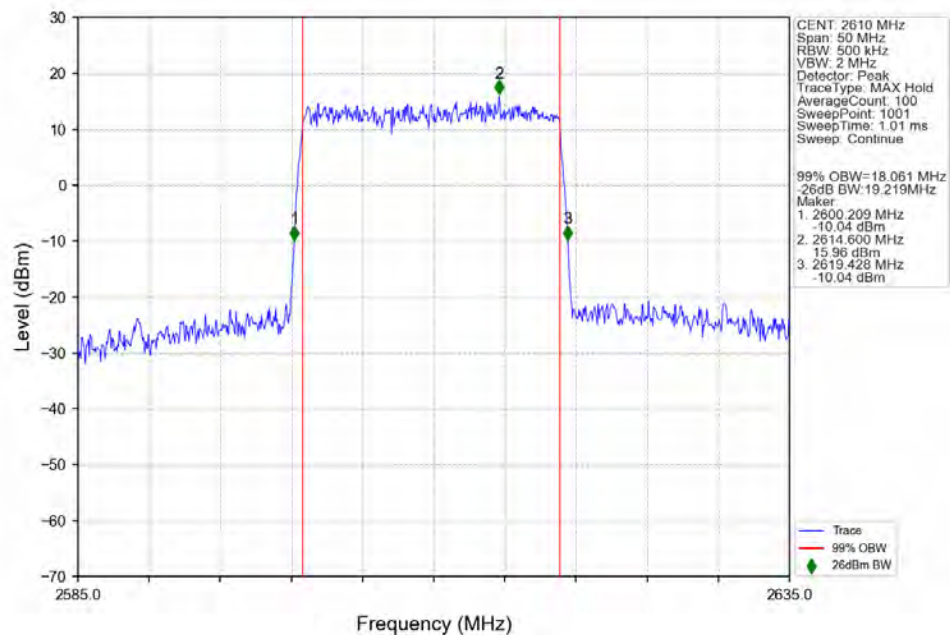
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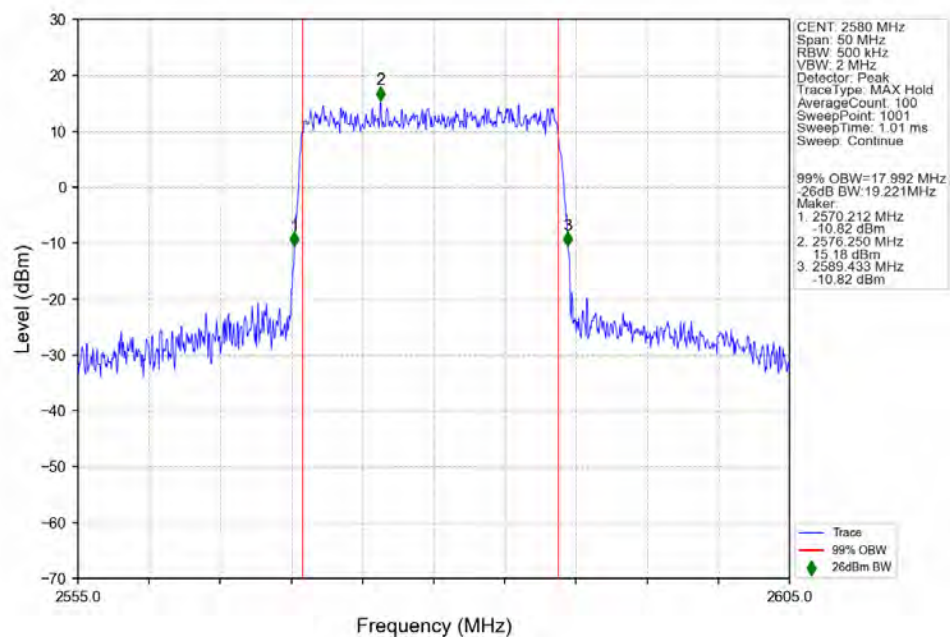
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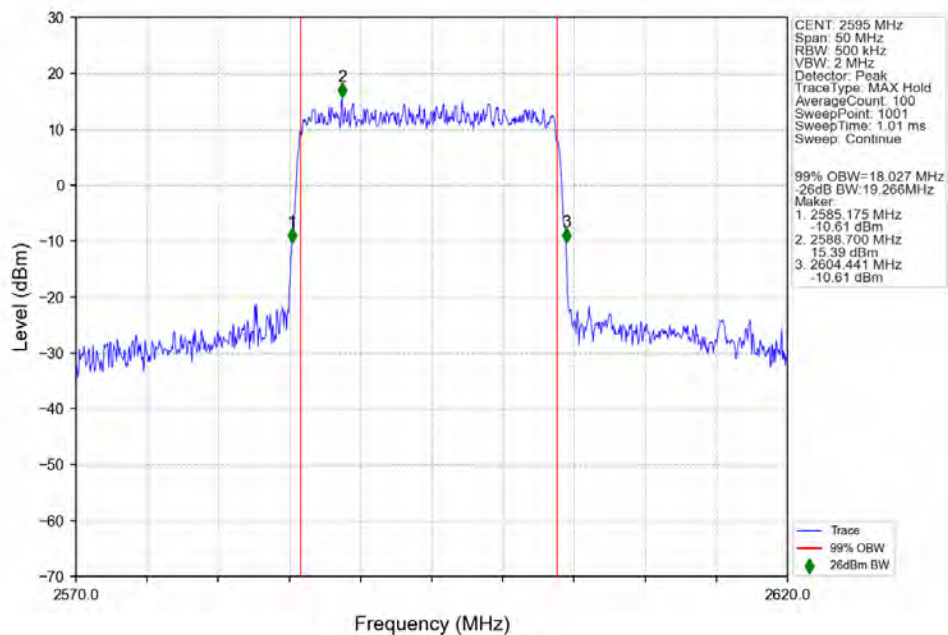
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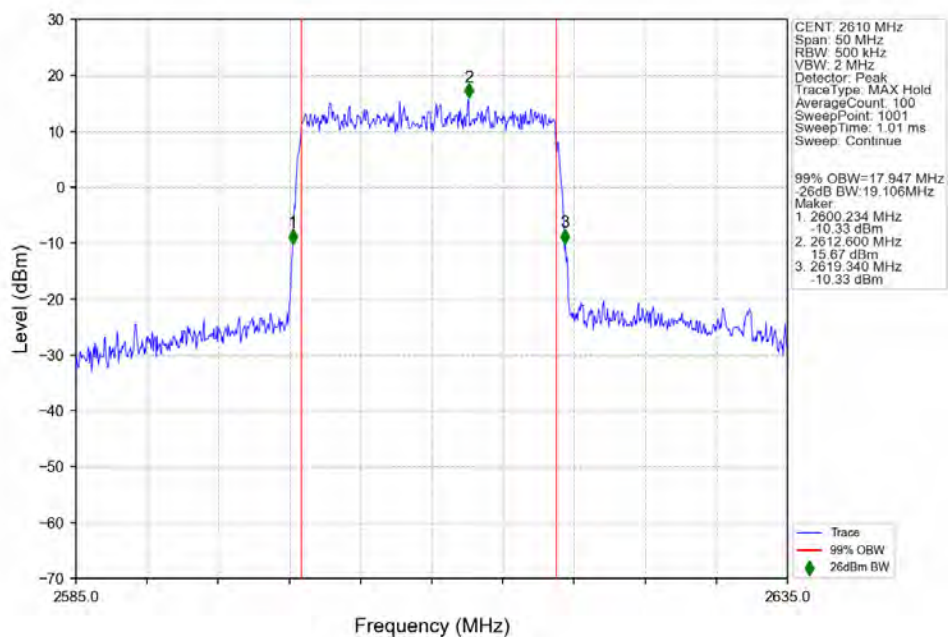
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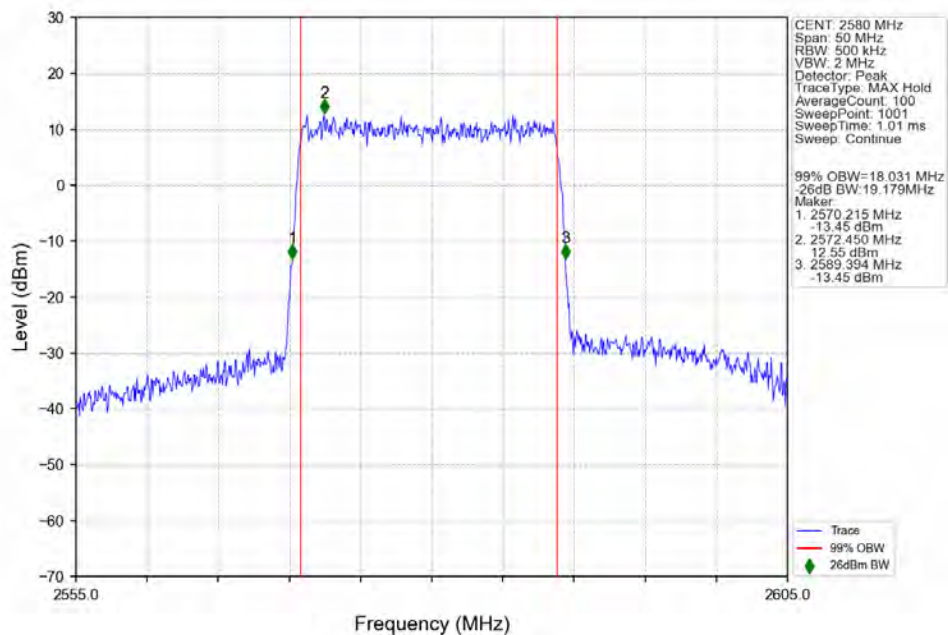
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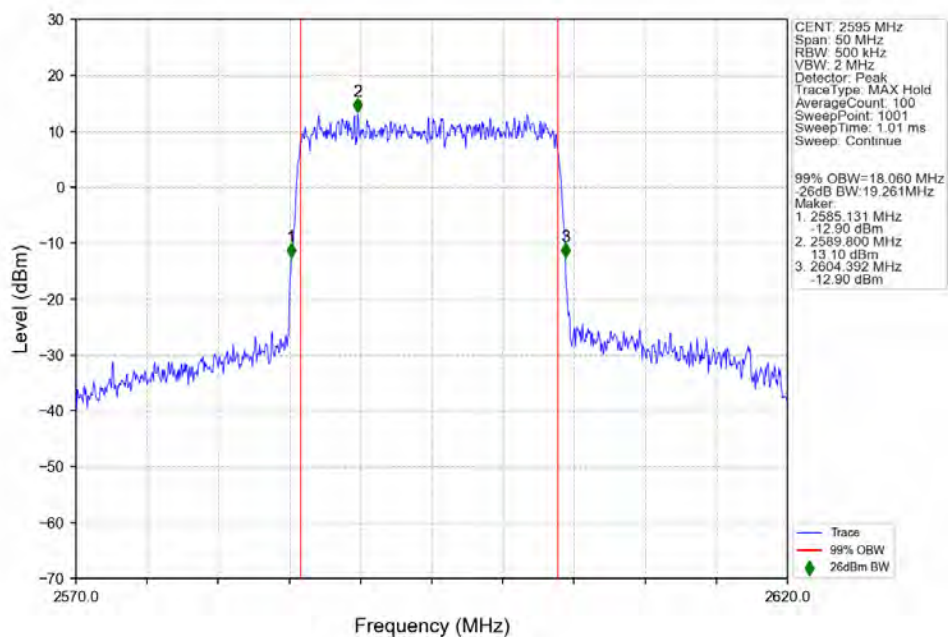
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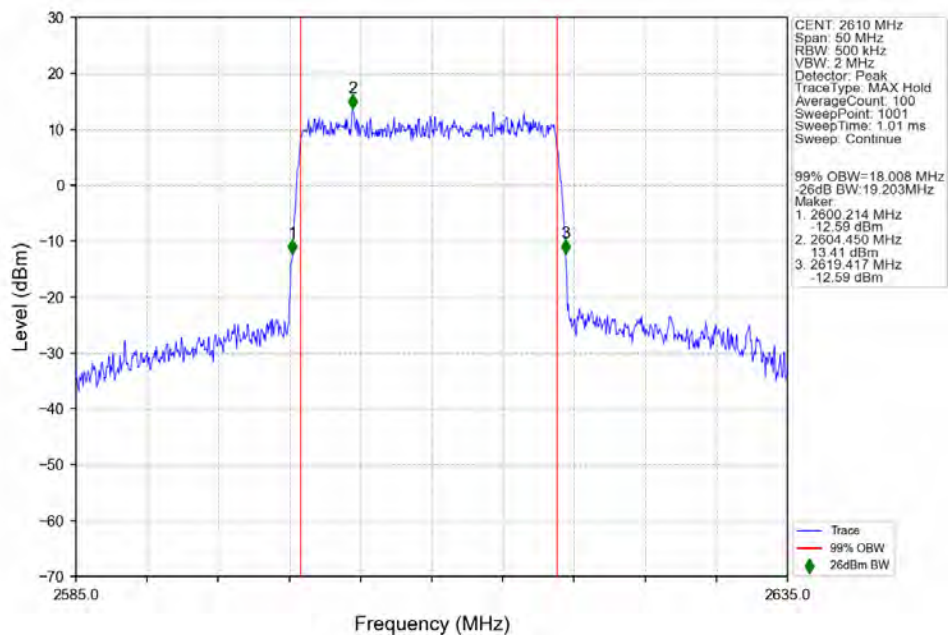
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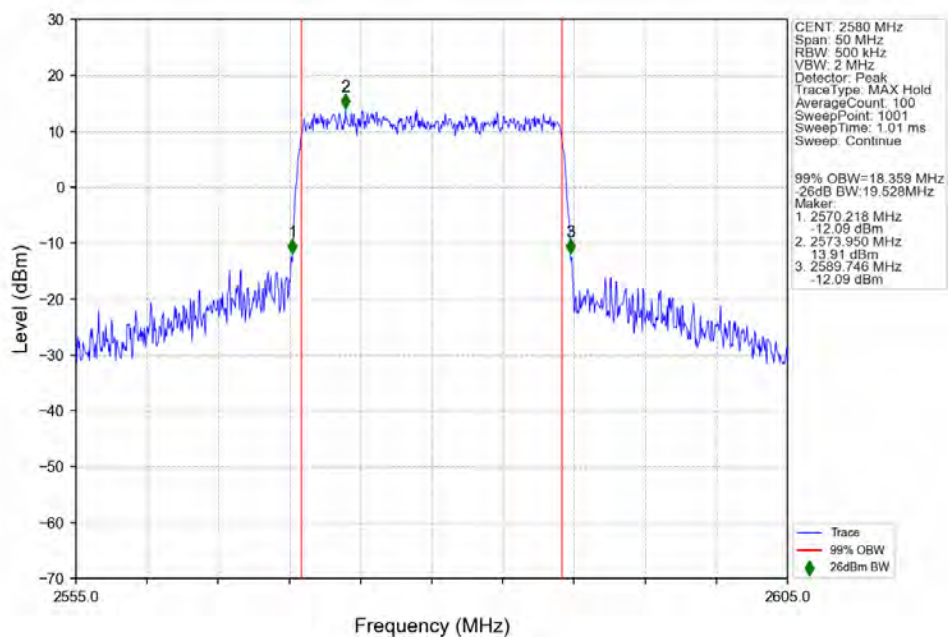
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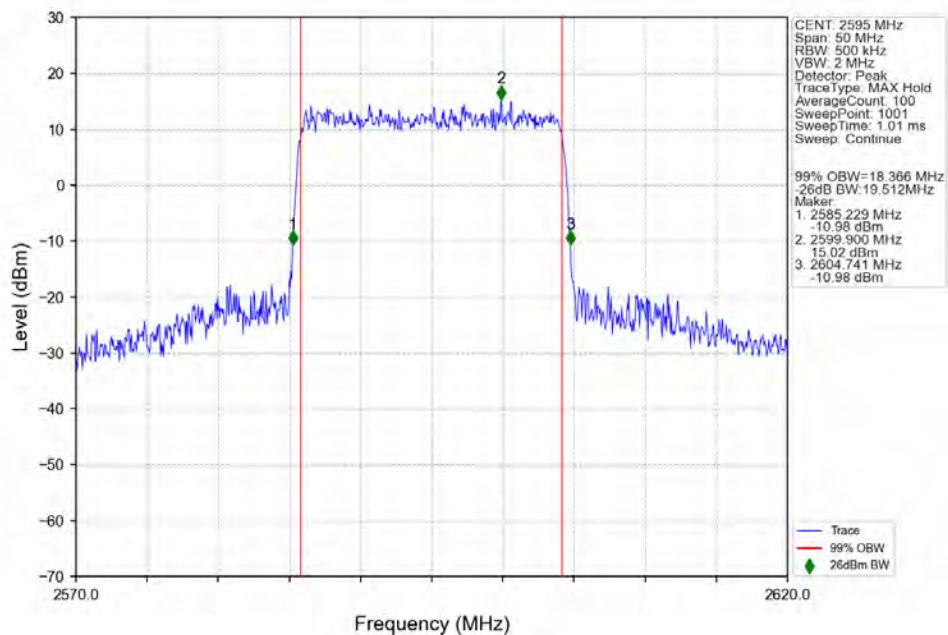
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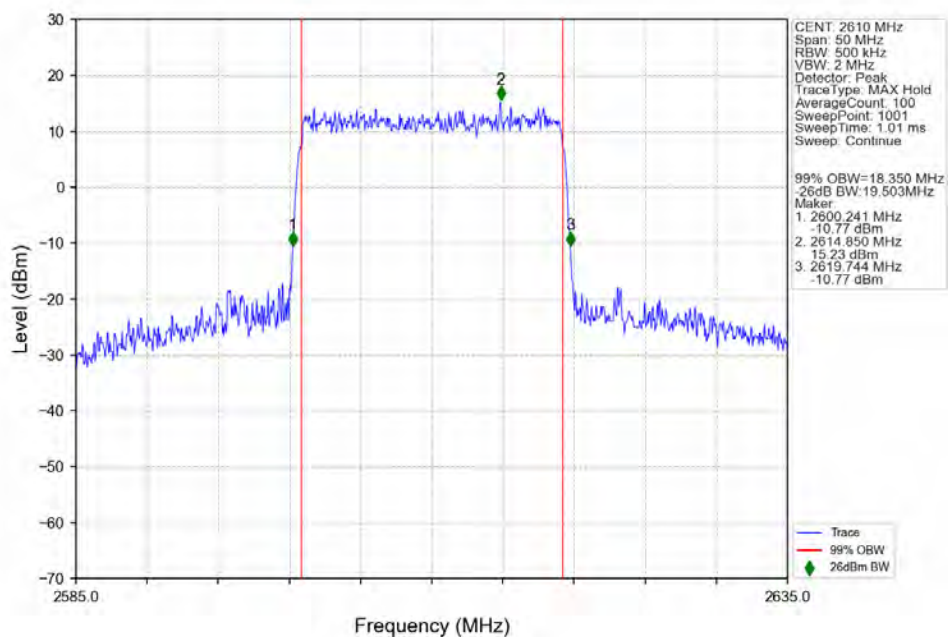
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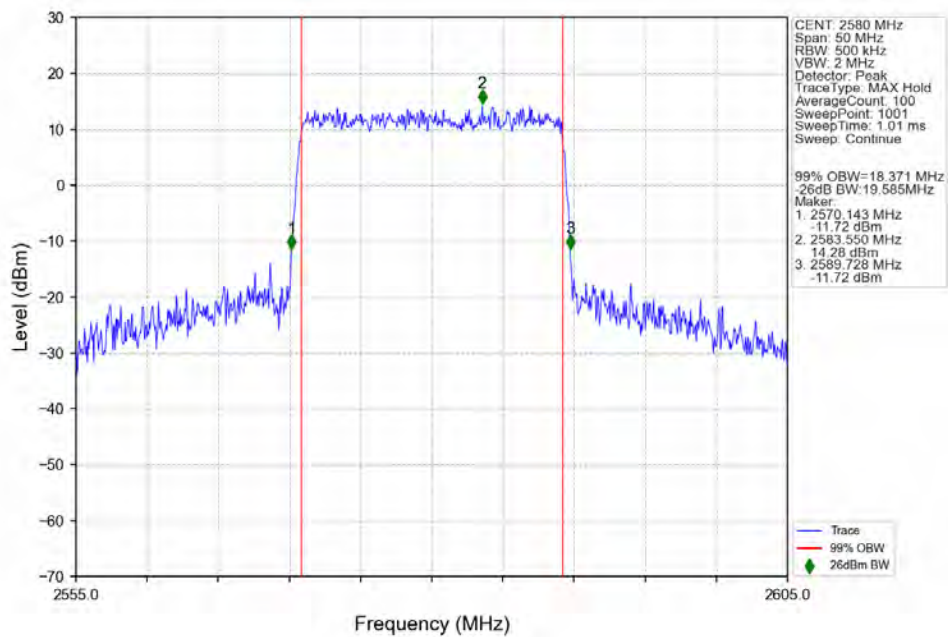
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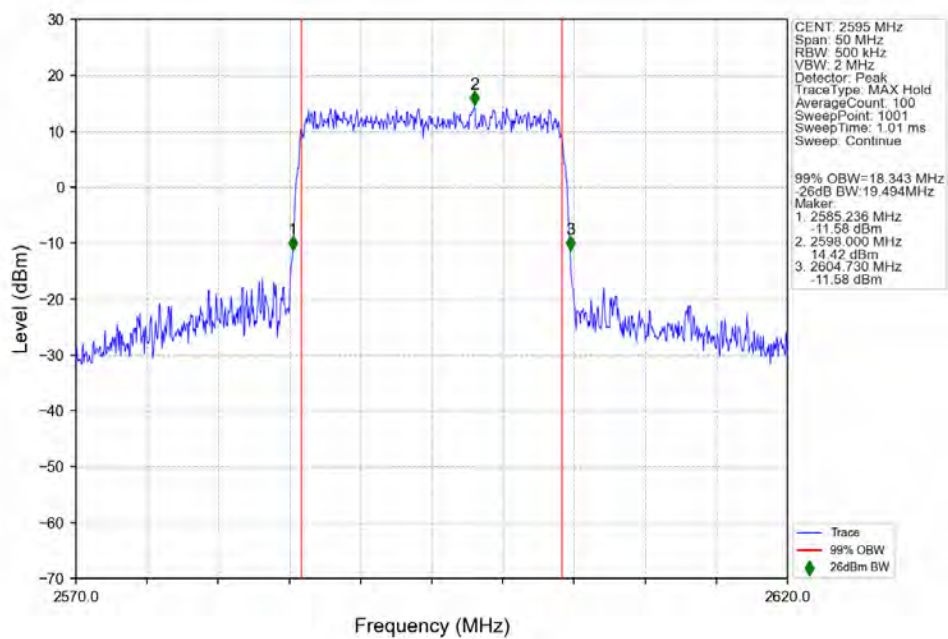
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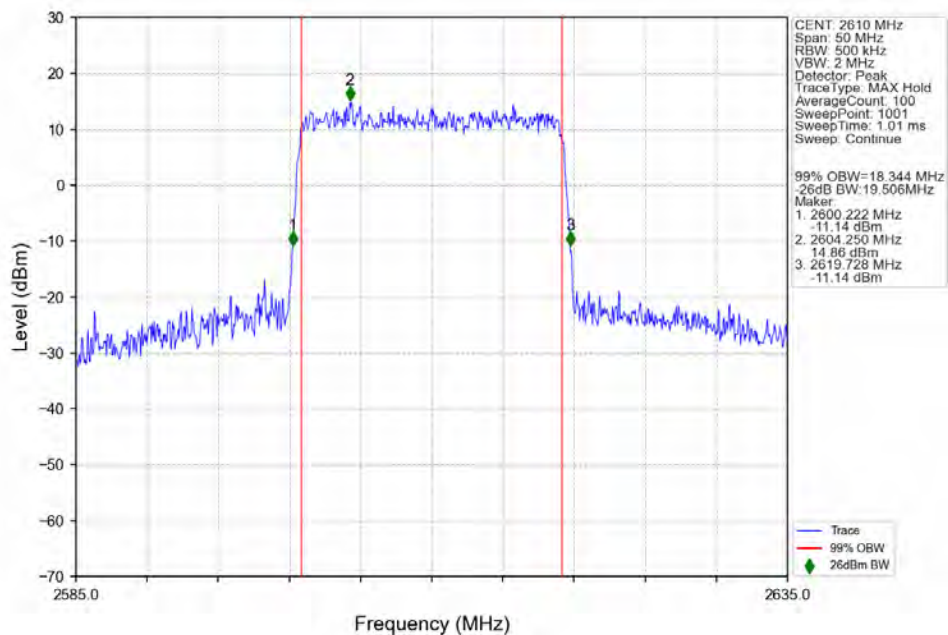
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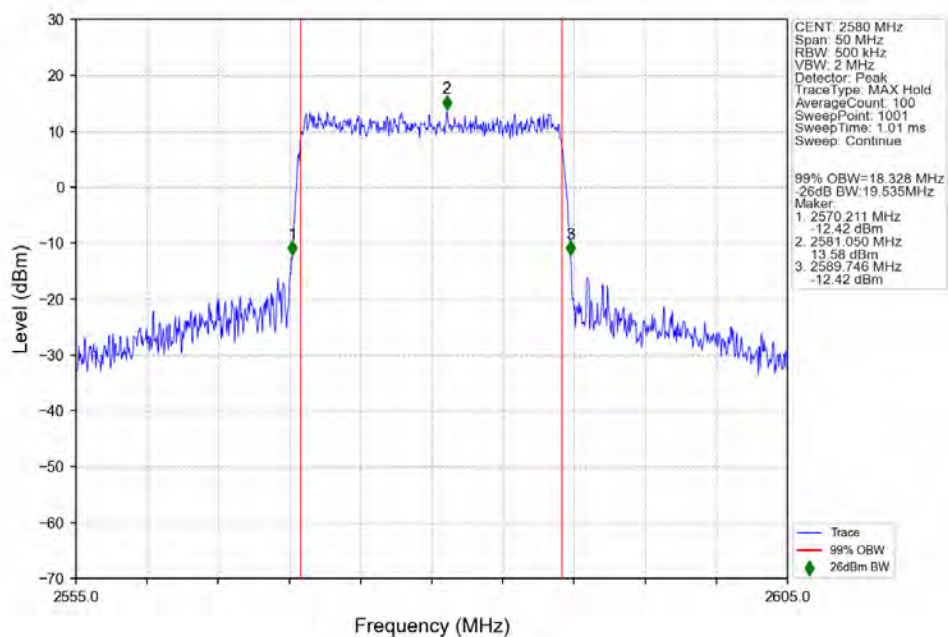
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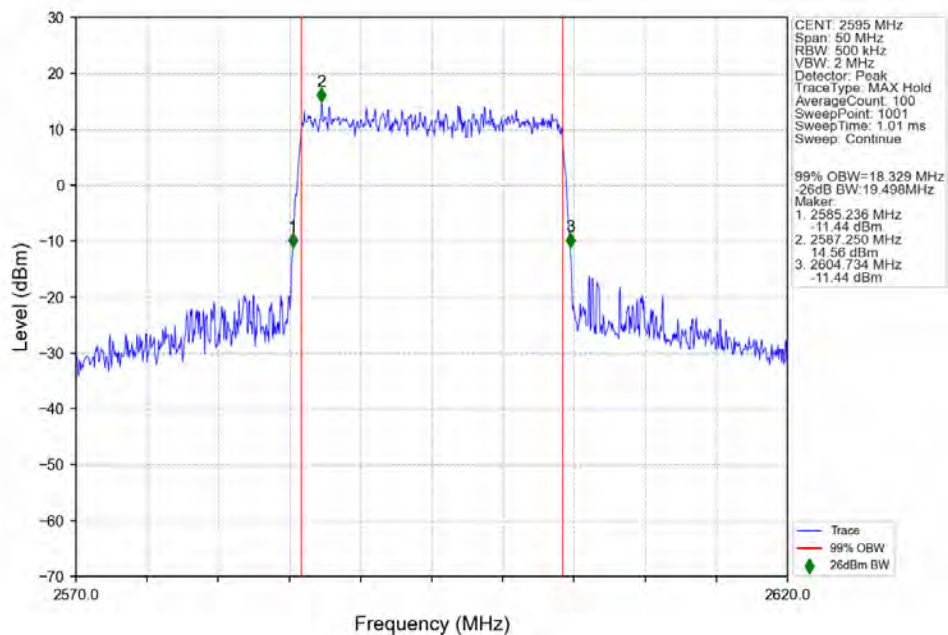
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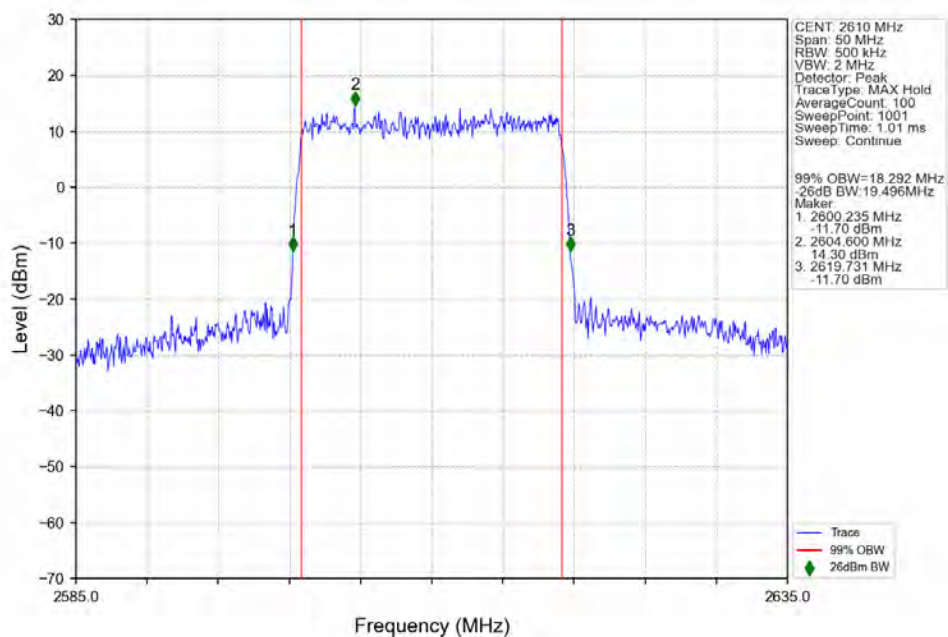
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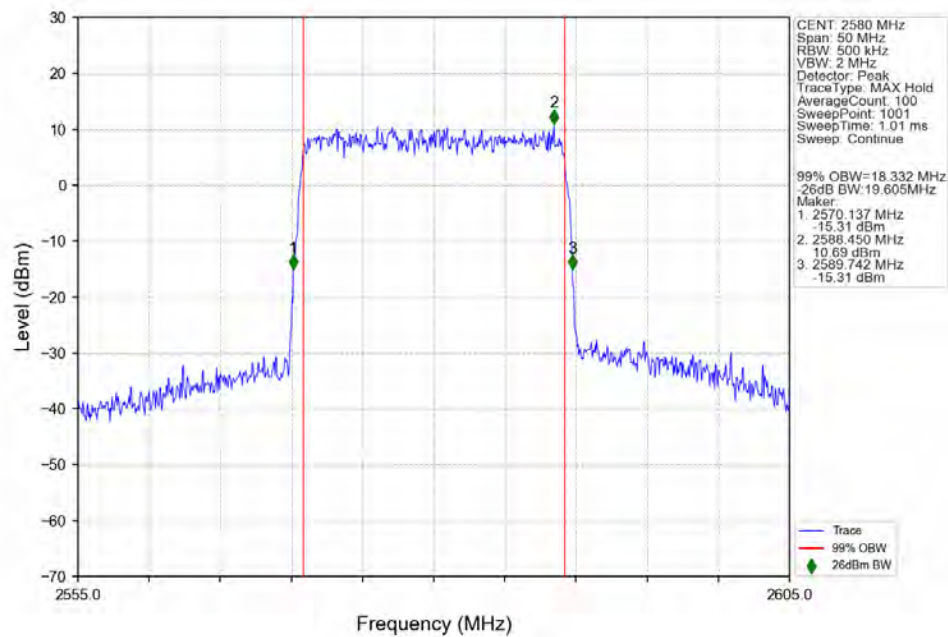
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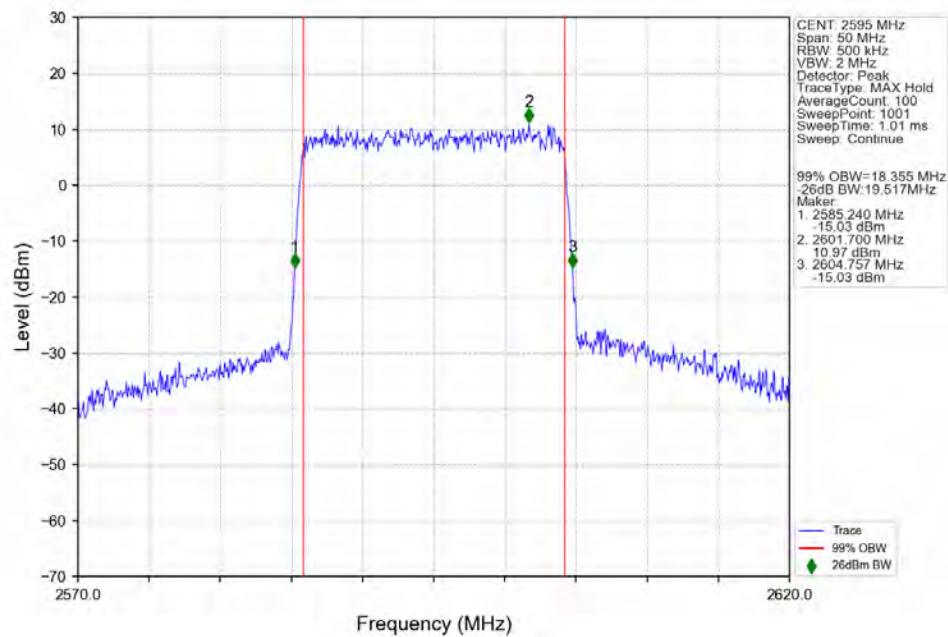
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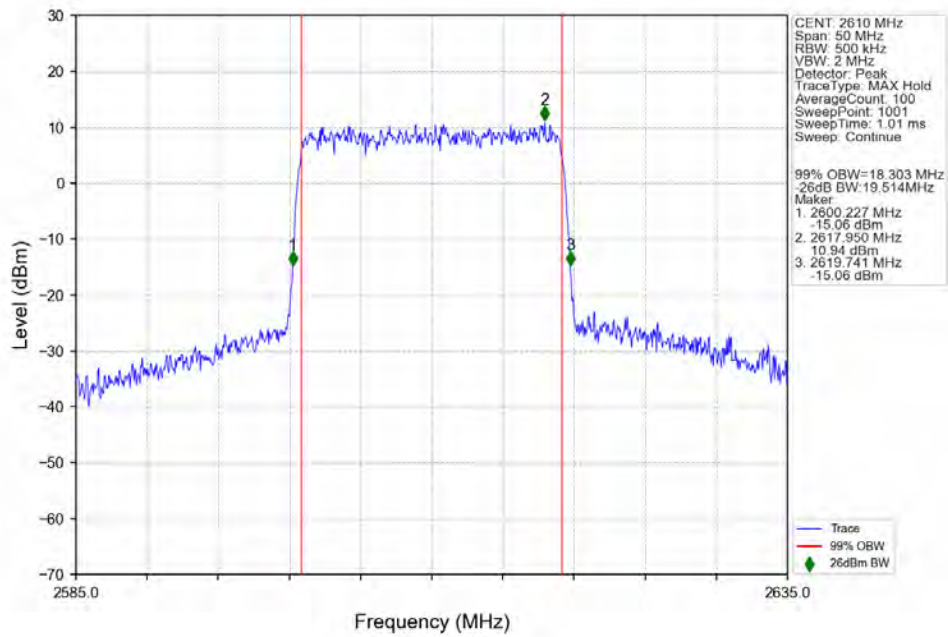
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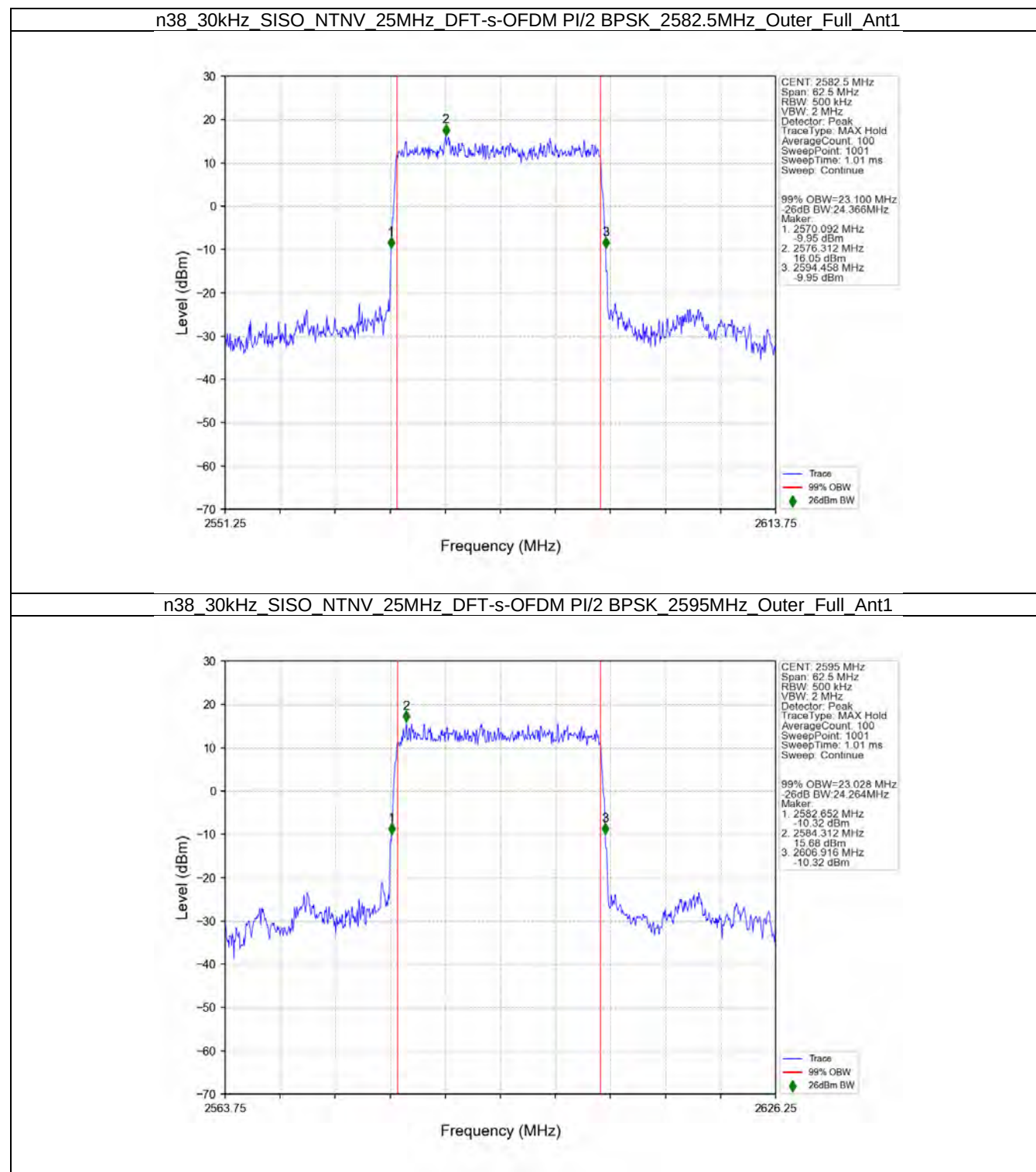
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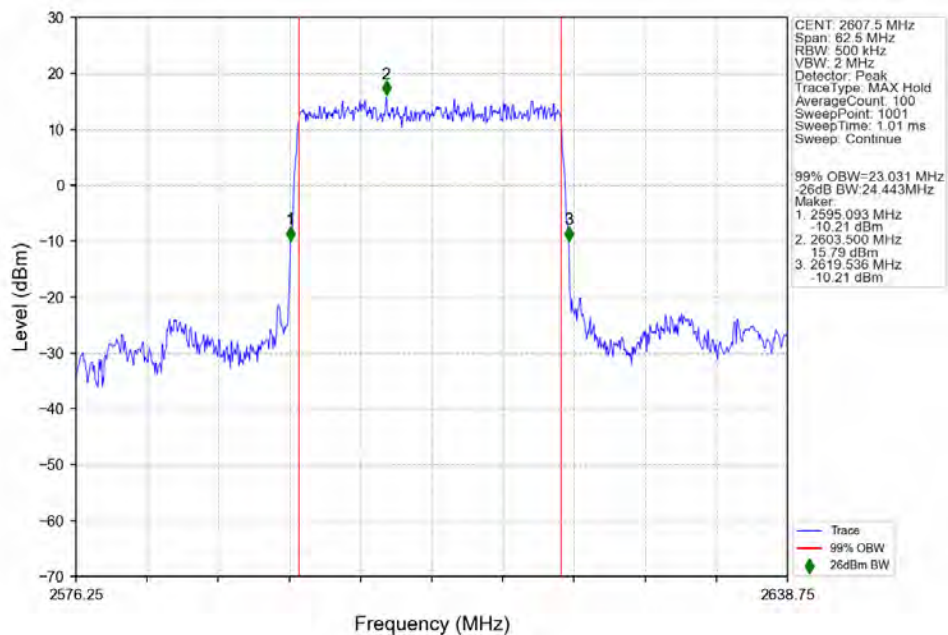
n38 30kHz SISO NTV 20MHz CP-OFDM 256 QAM 2610MHz Outer Full Ant1



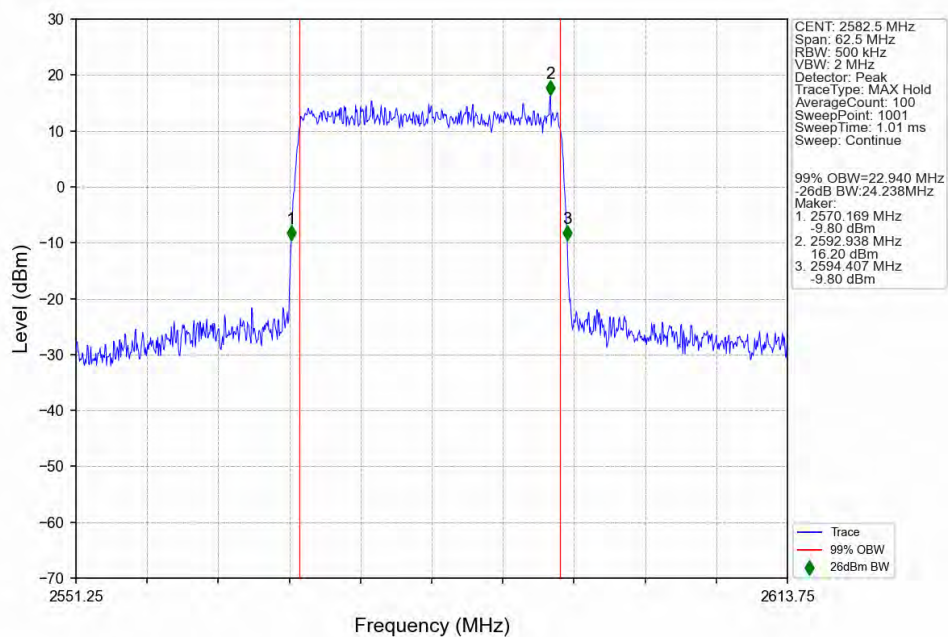
3.2.4 30k_SISO_25MHz_NTNV



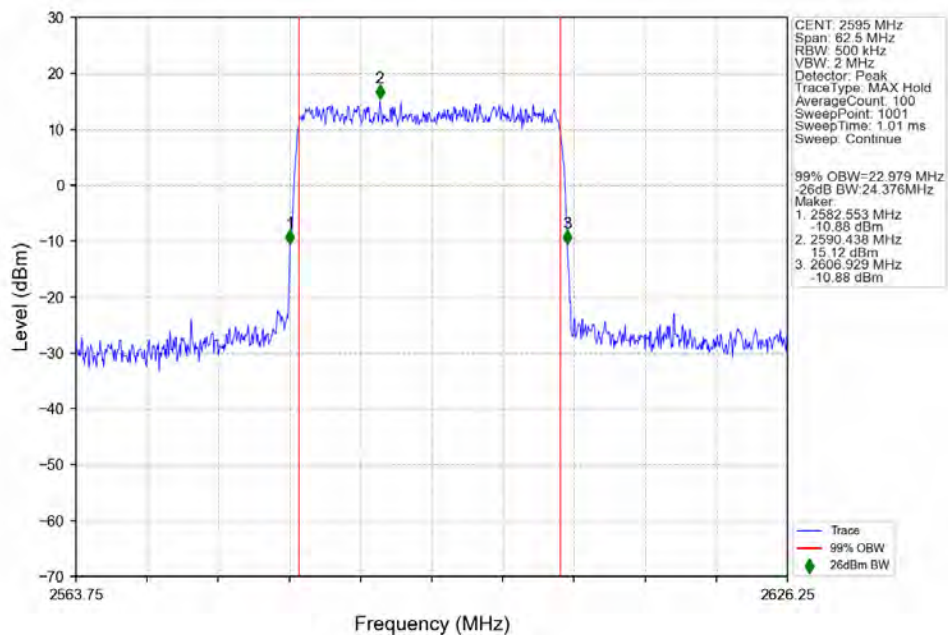
n38 30kHz SISO NTN 25MHz DFT-s-OFDM PI/2 BPSK 2607.5MHz Outer Full Ant1



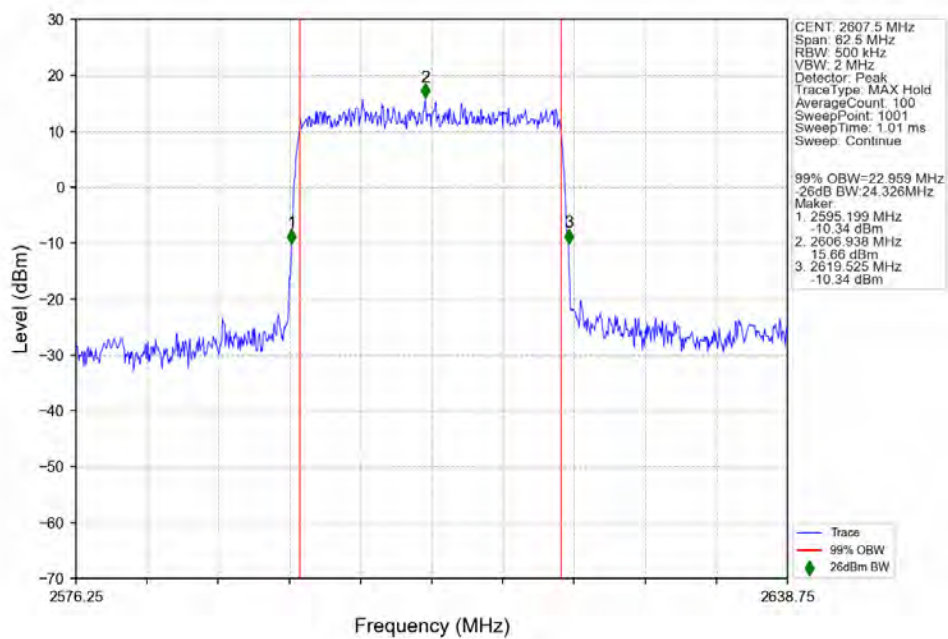
n38 30kHz SISO NTN 25MHz DFT-s-OFDM QPSK 2582.5MHz Outer Full Ant1



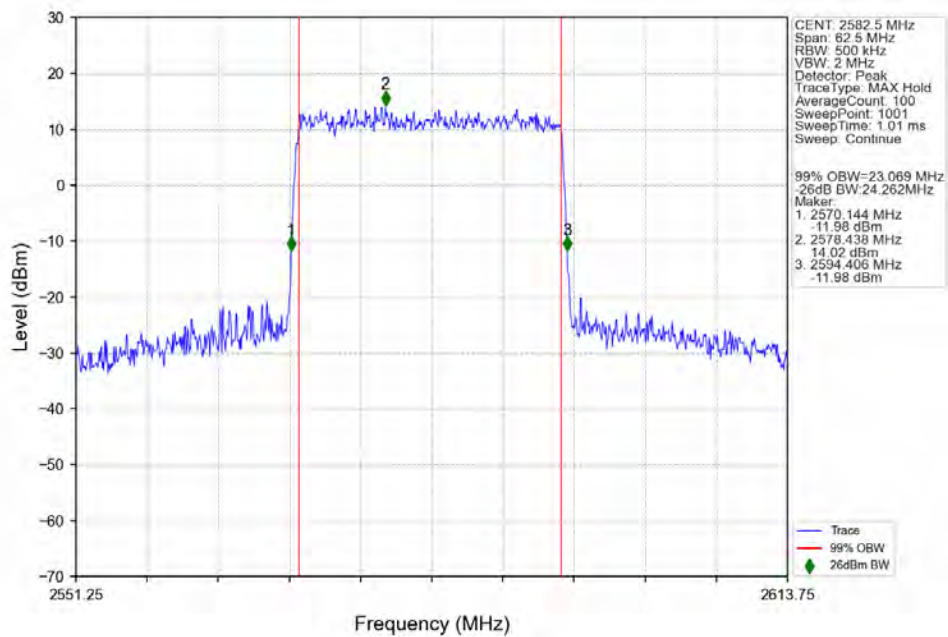
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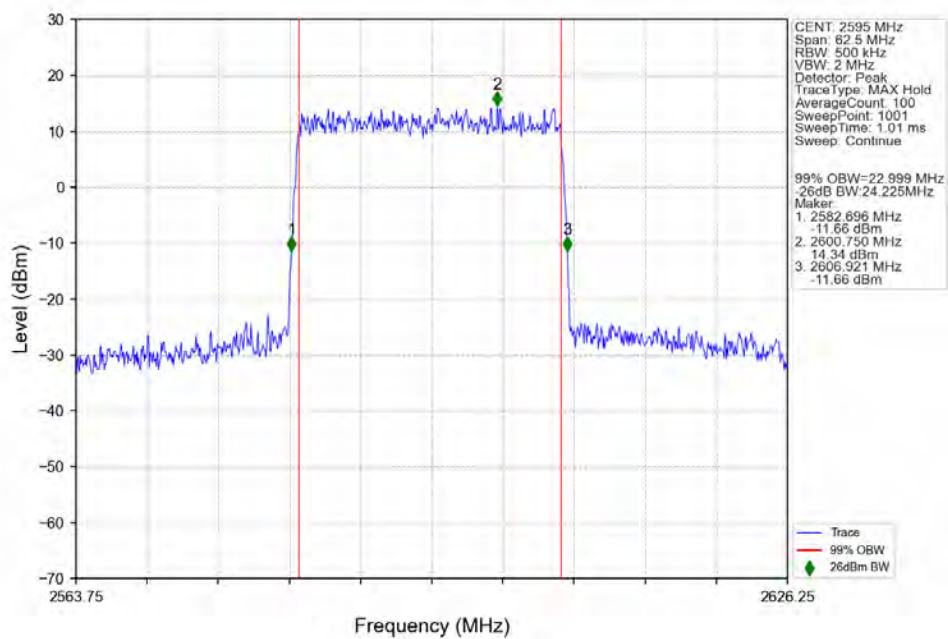
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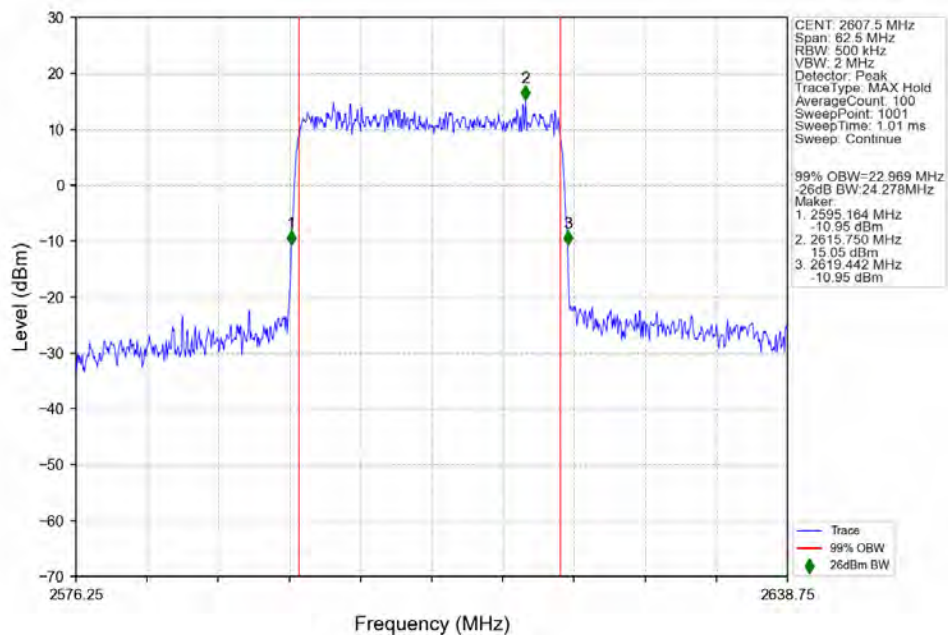
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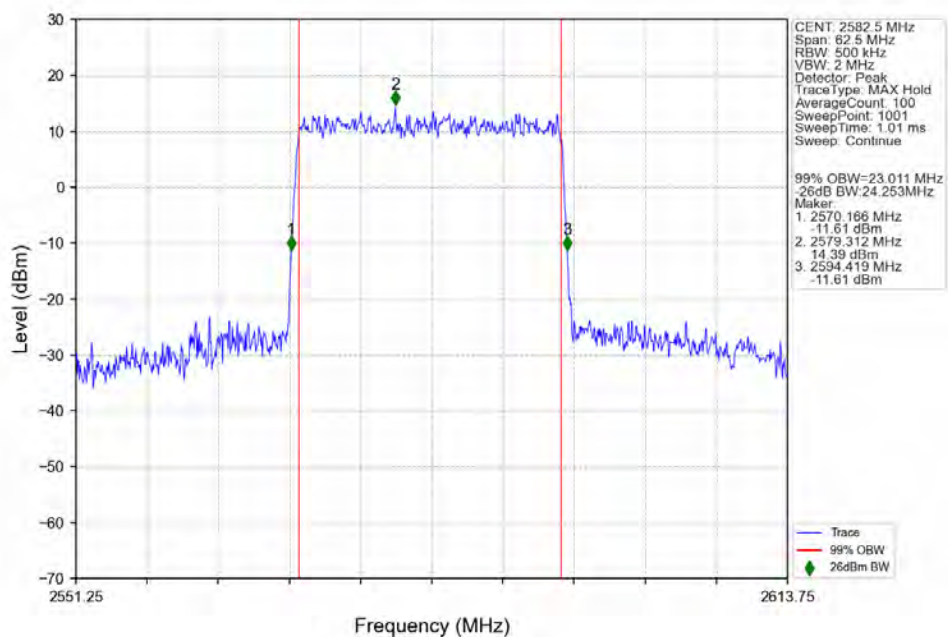
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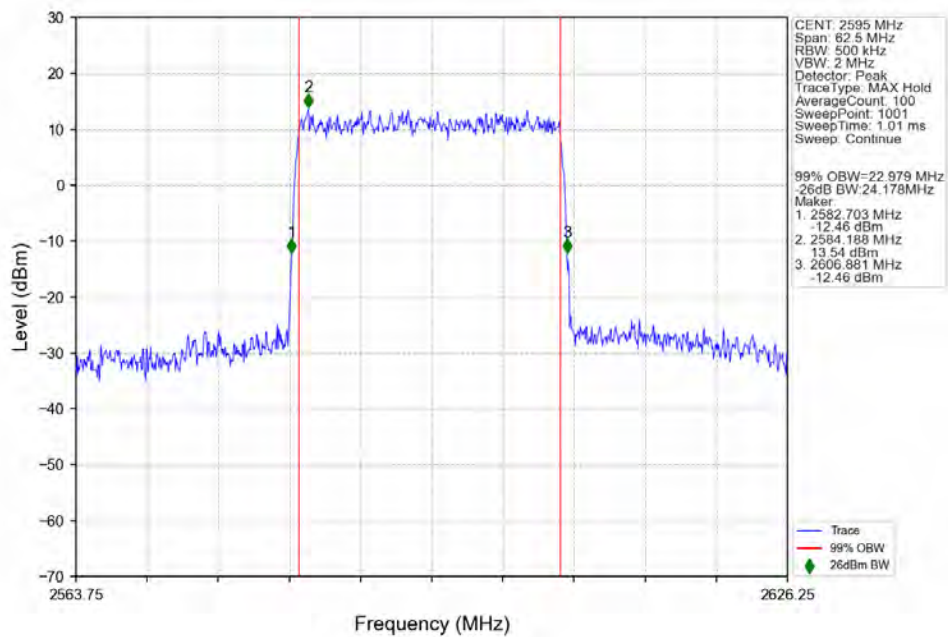
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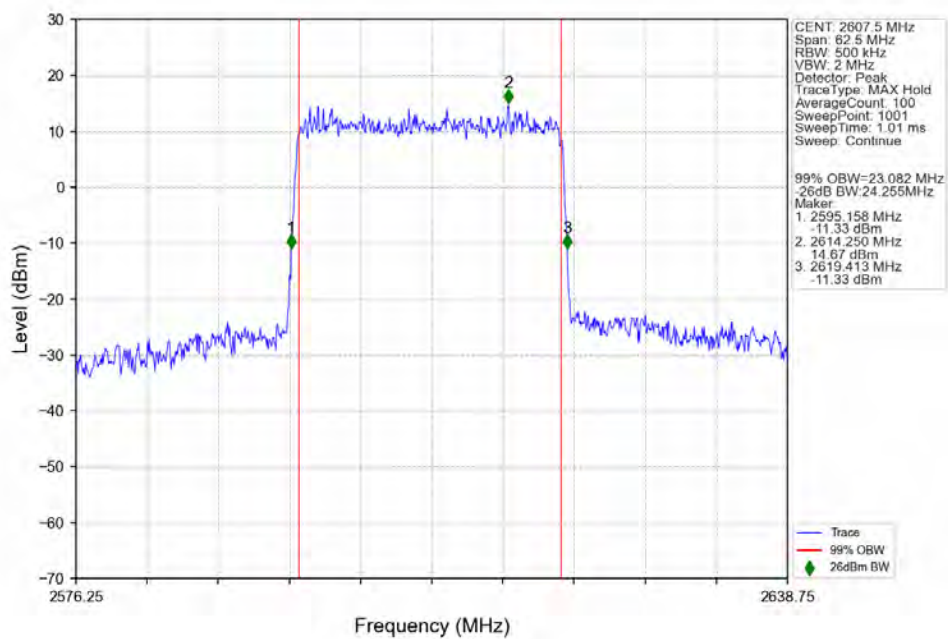
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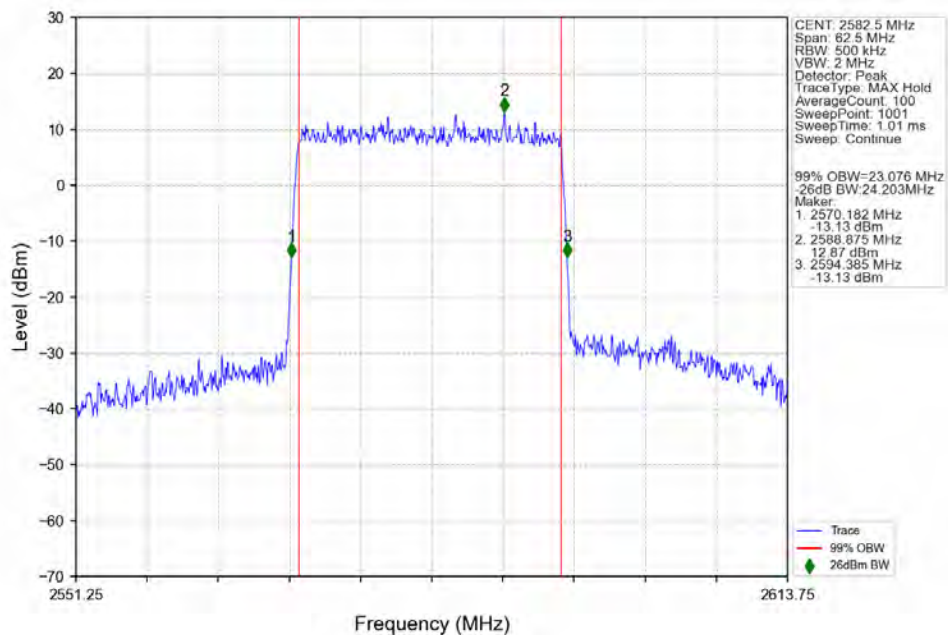
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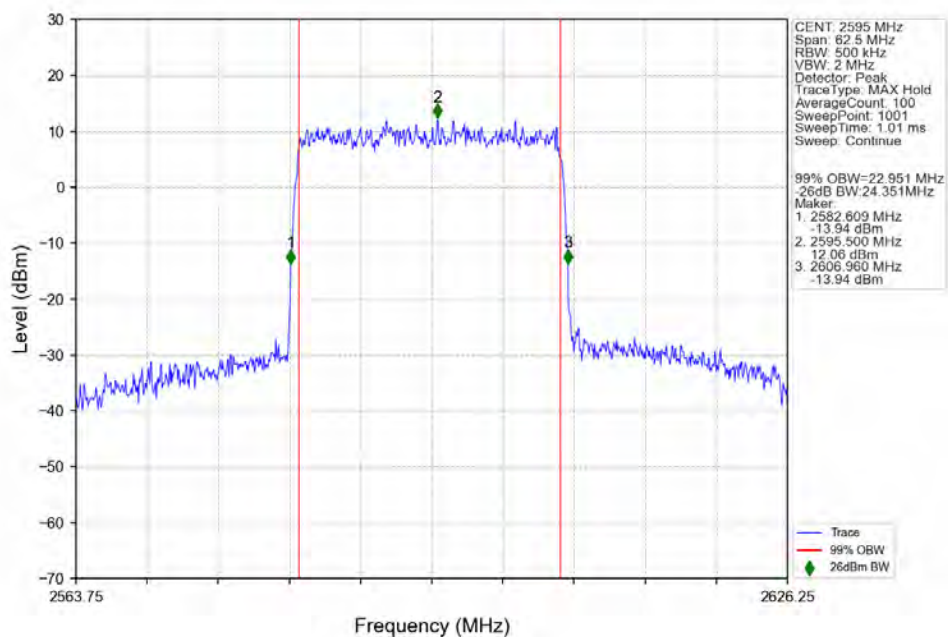
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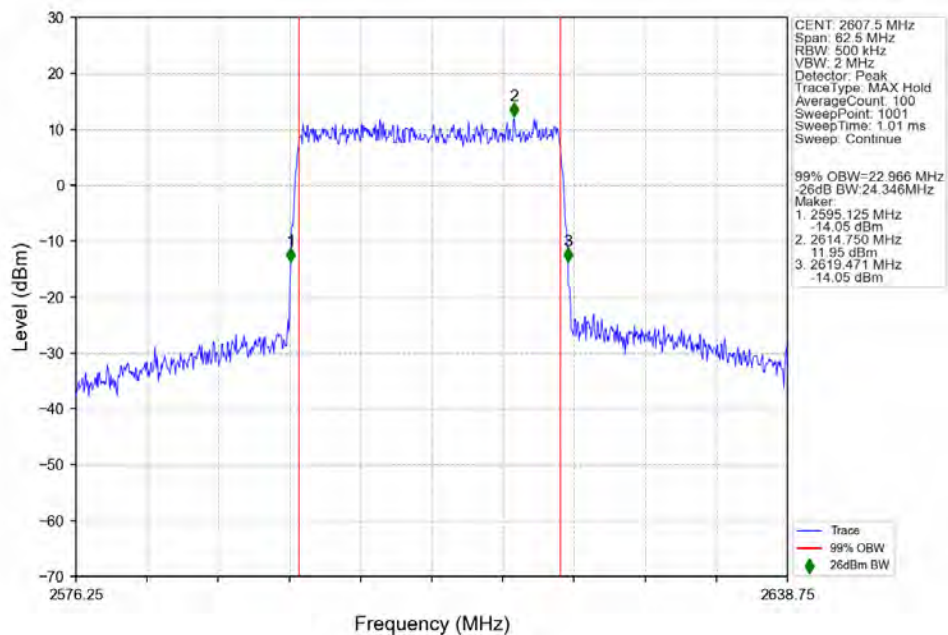
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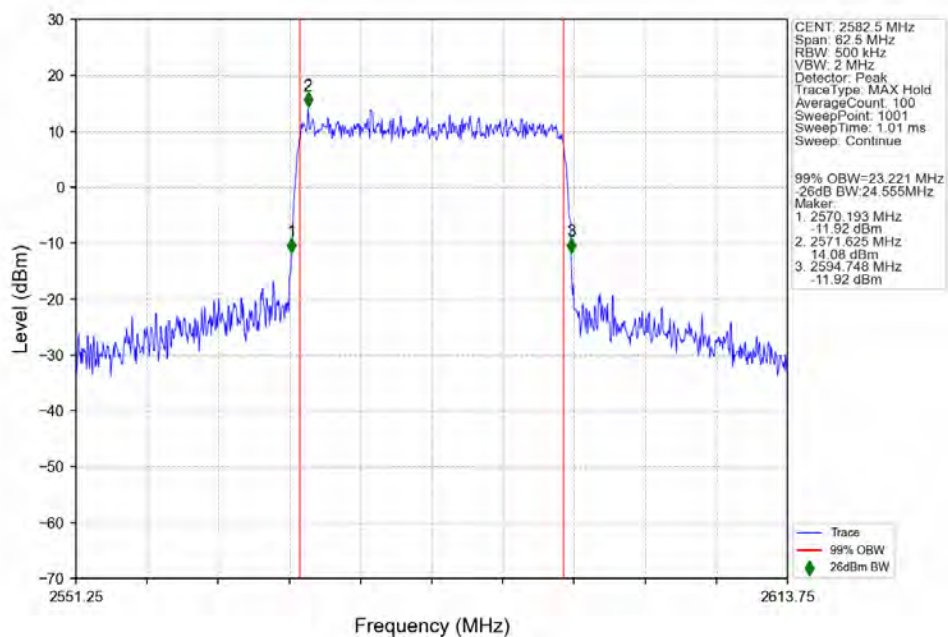
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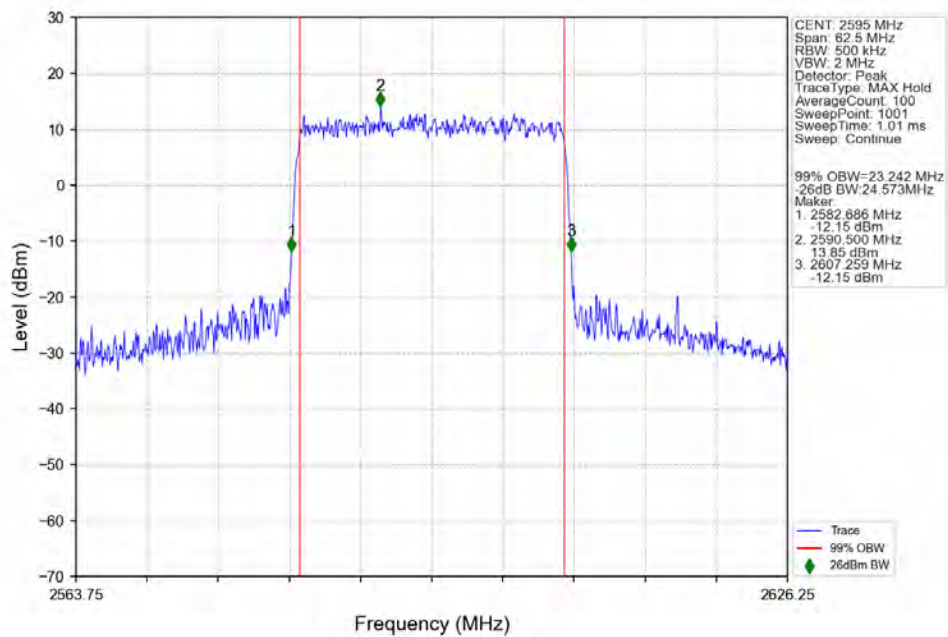
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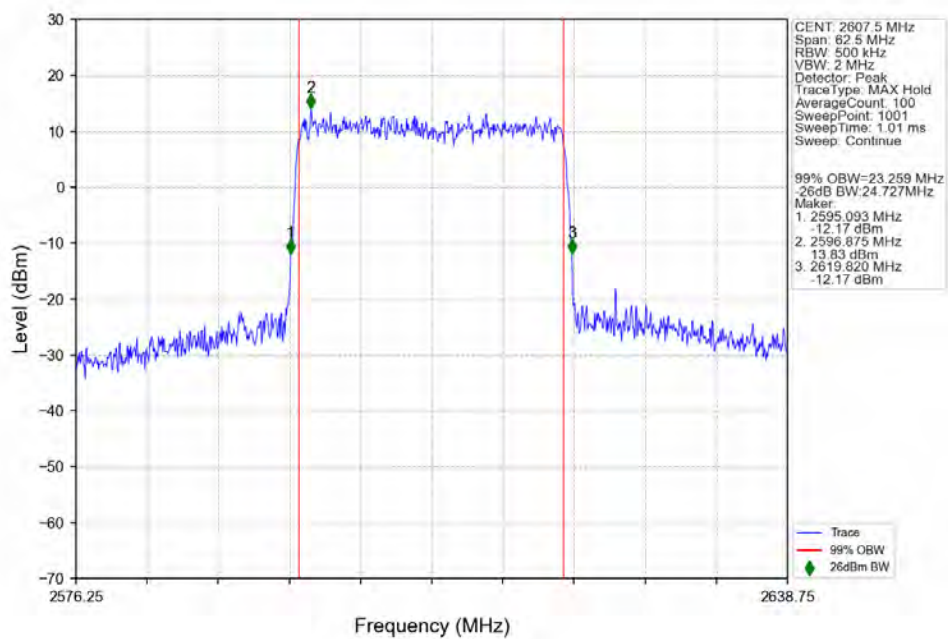
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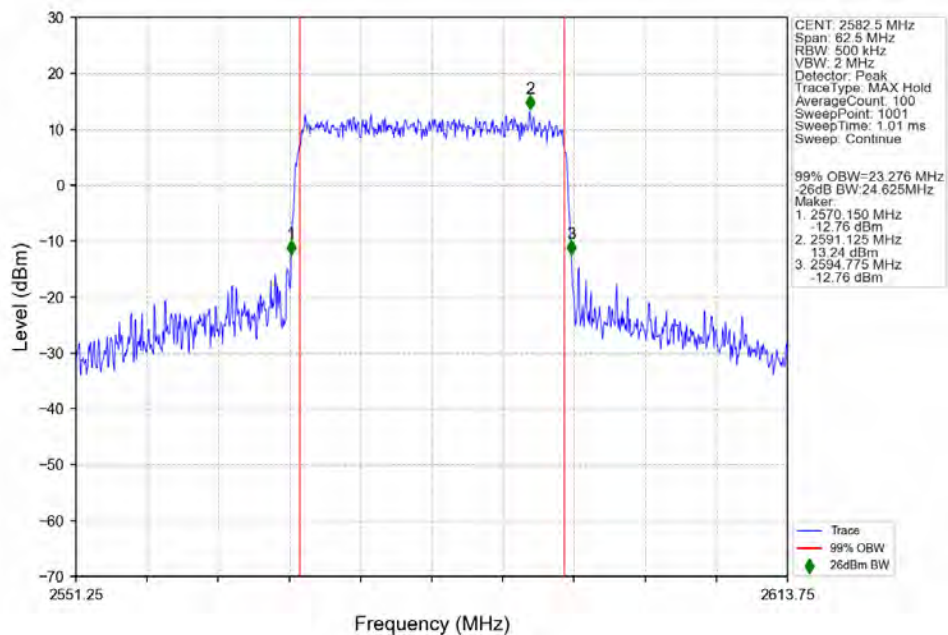
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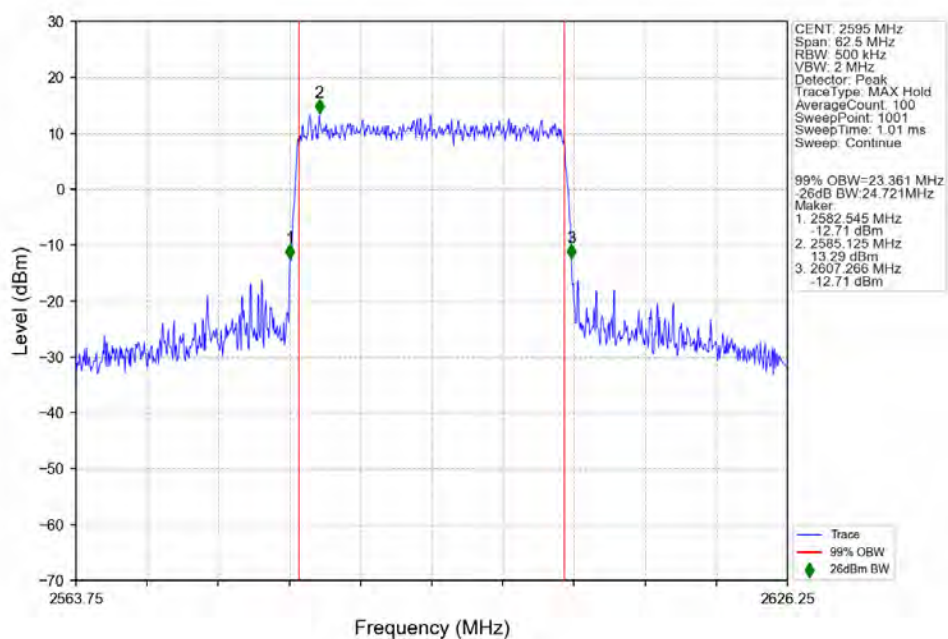
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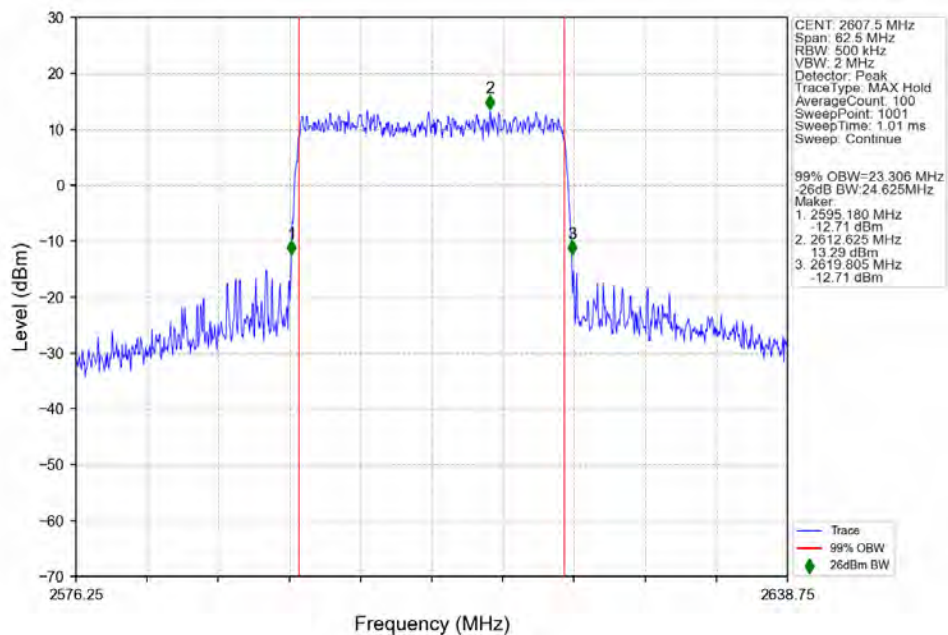
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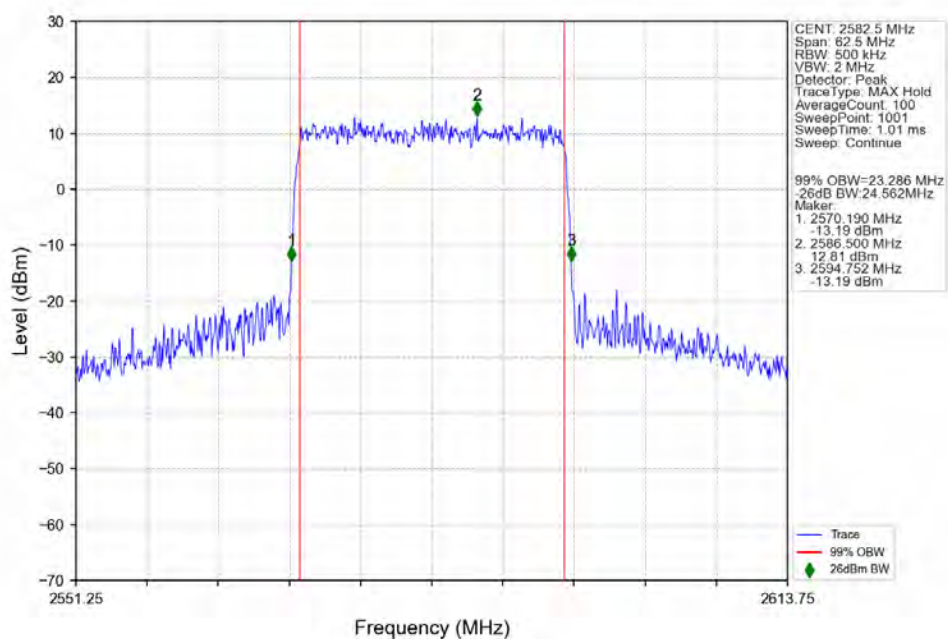
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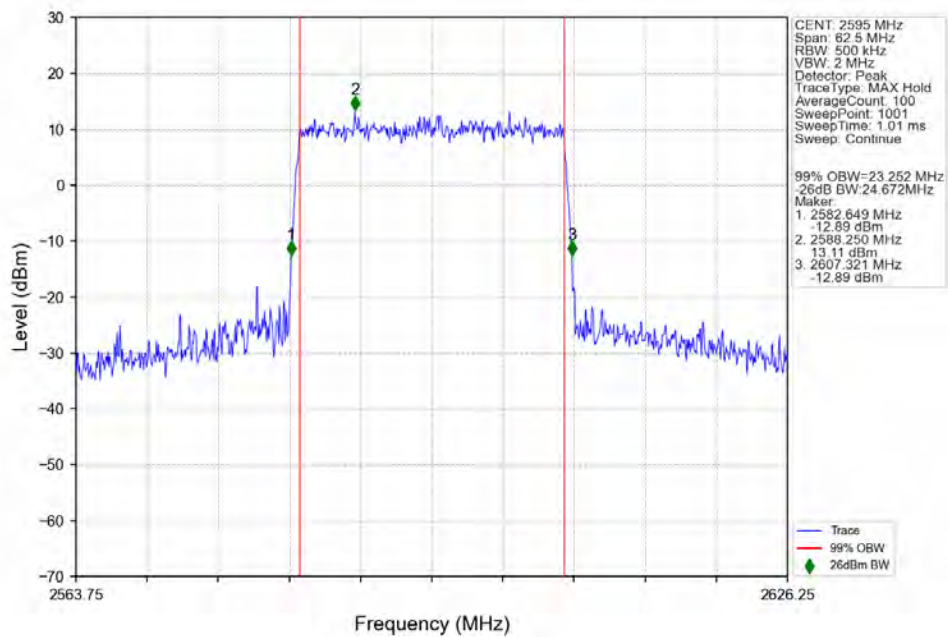
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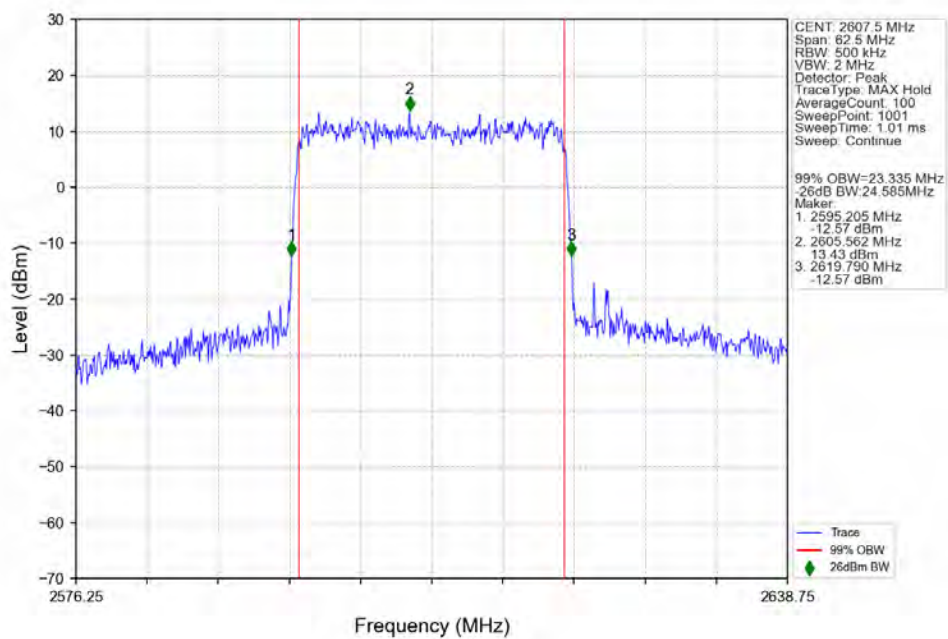
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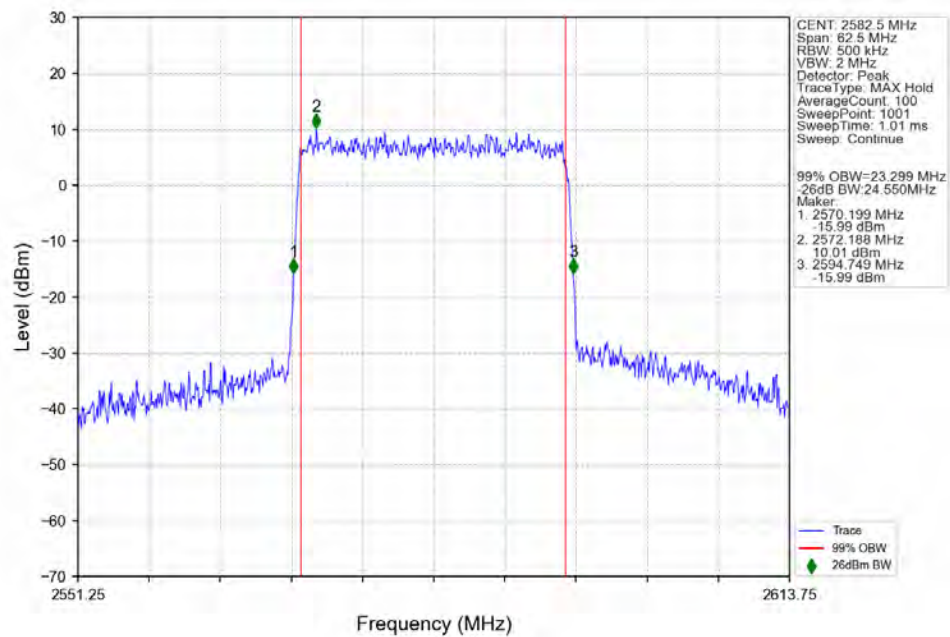
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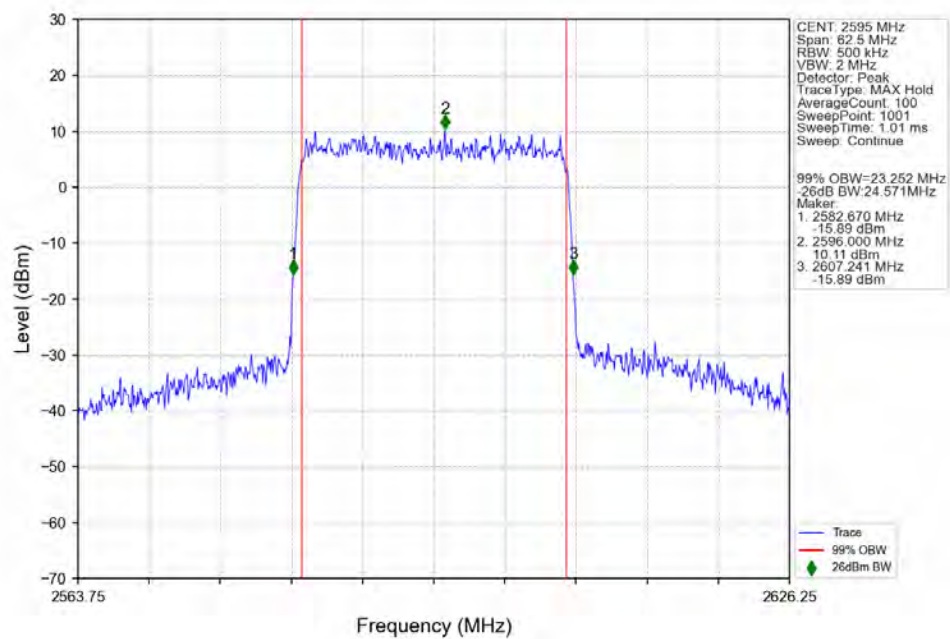
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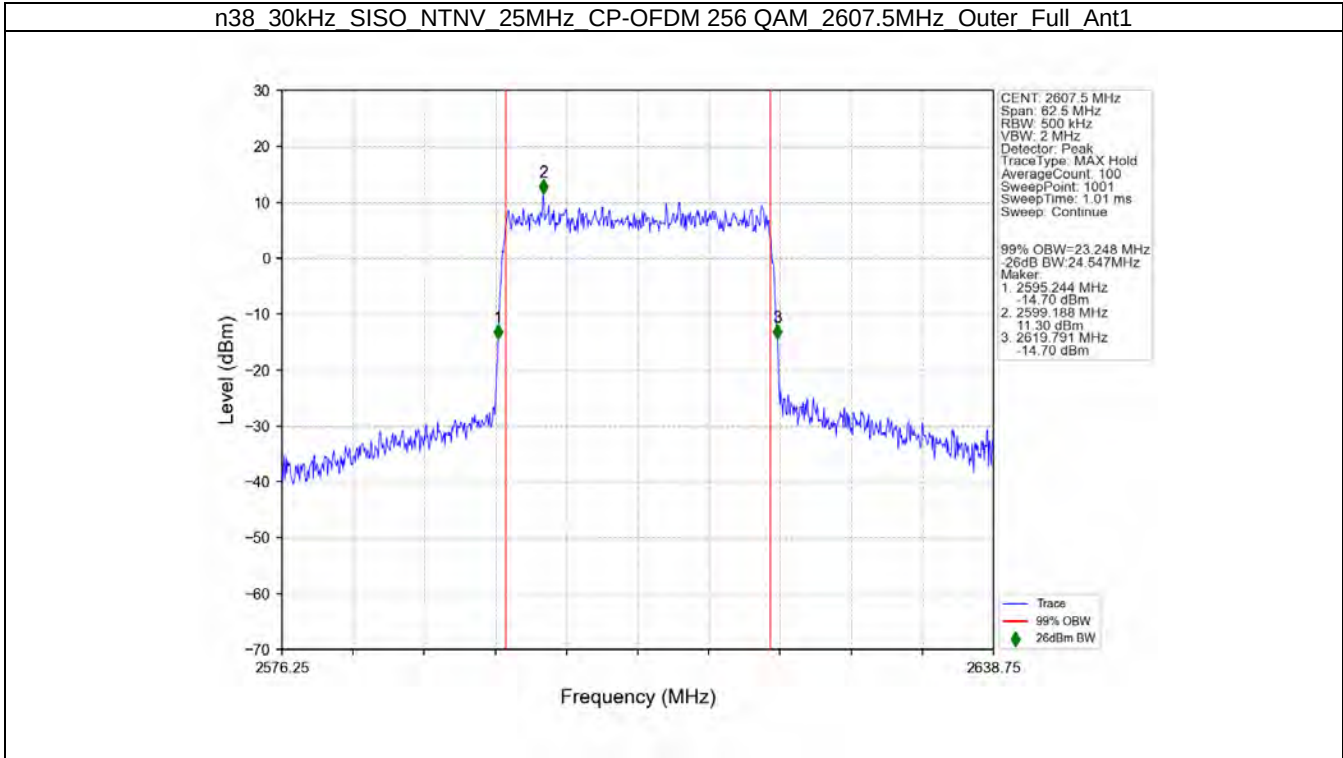


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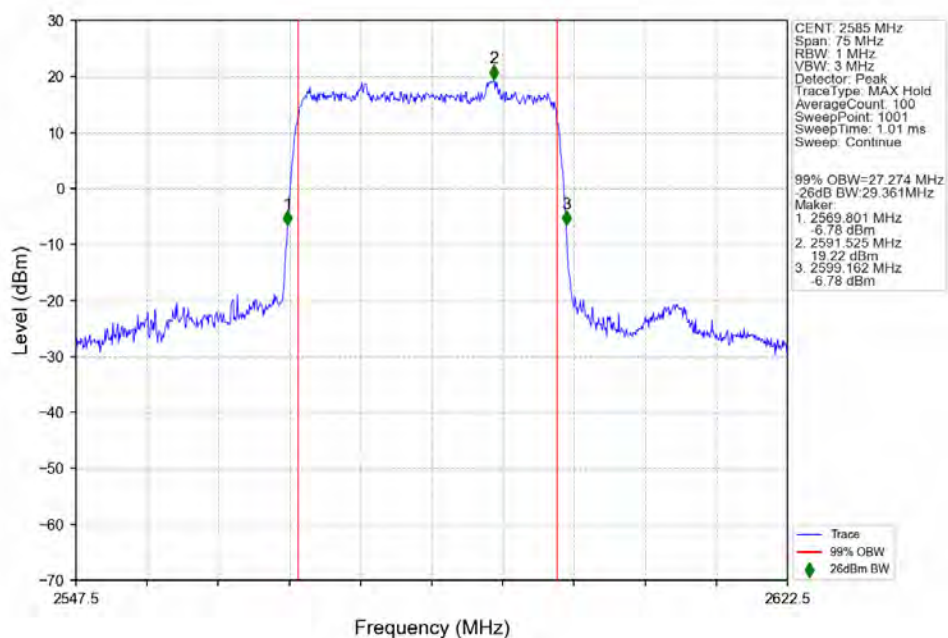
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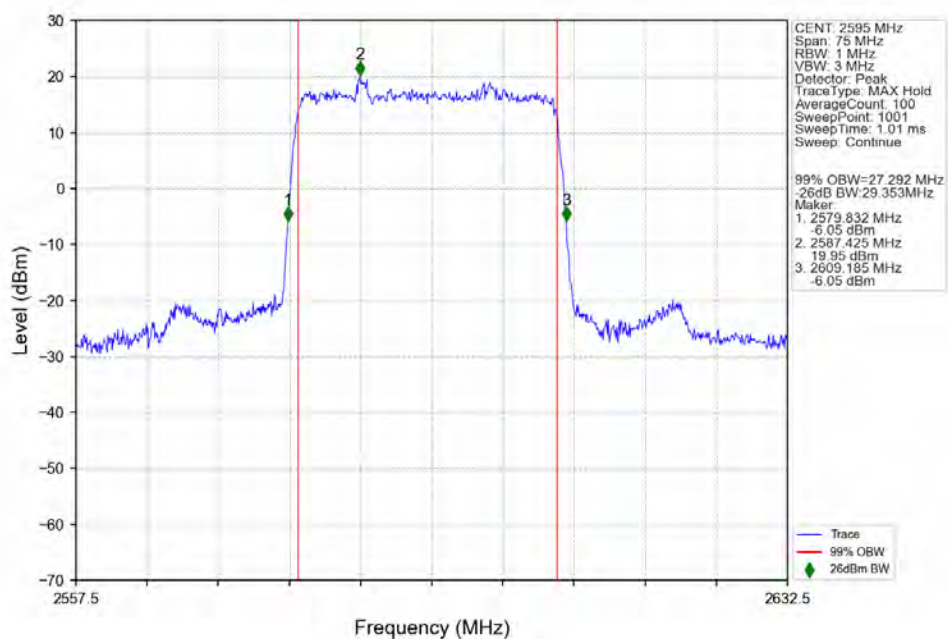


3.2.5 30k_SISO_30MHz_NTNV

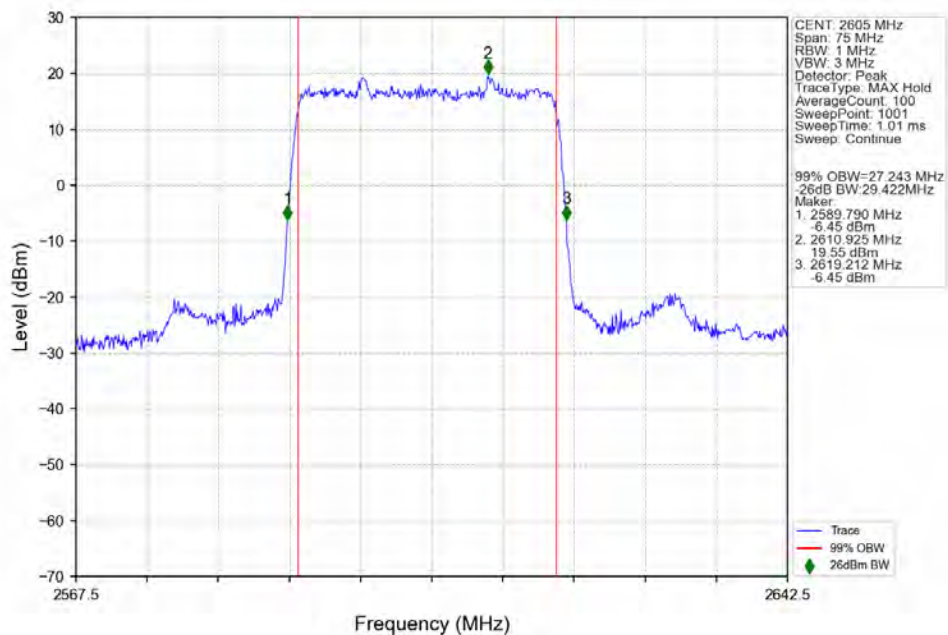
n38_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM PI/2 BPSK_2585MHz_Outer_Full_Ant1



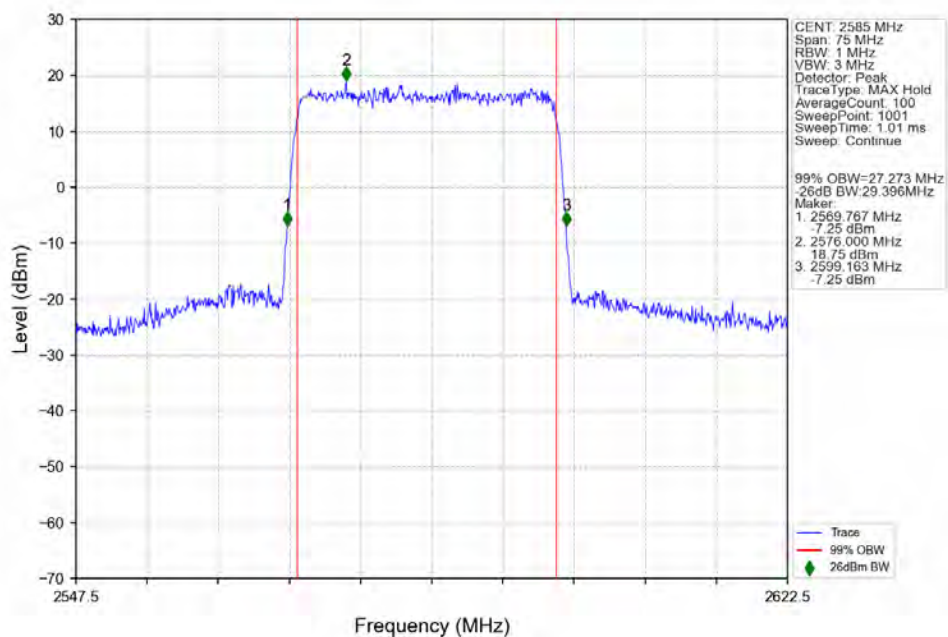
n38_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM PI/2 BPSK_2595MHz_Outer_Full_Ant1



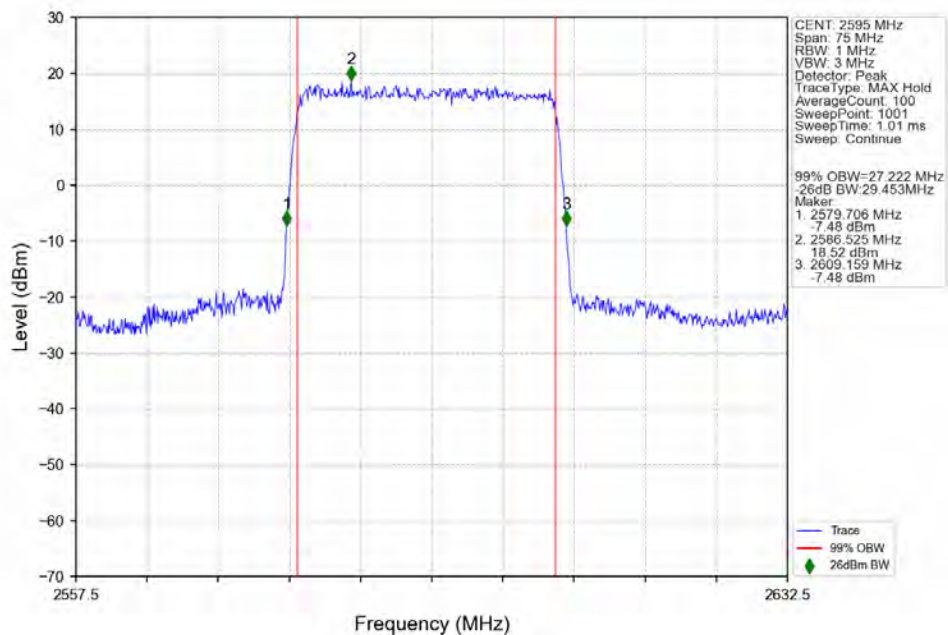
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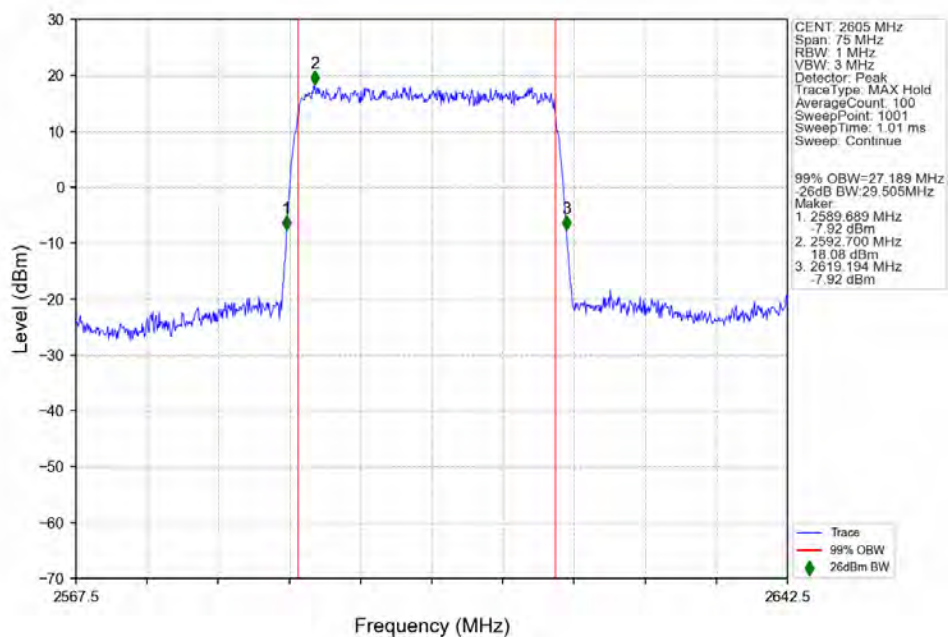
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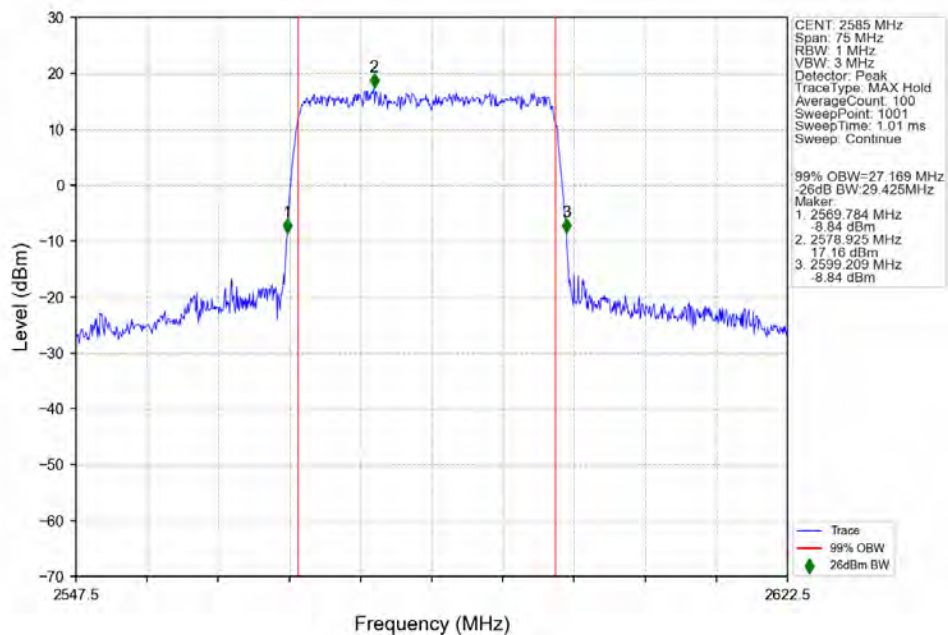
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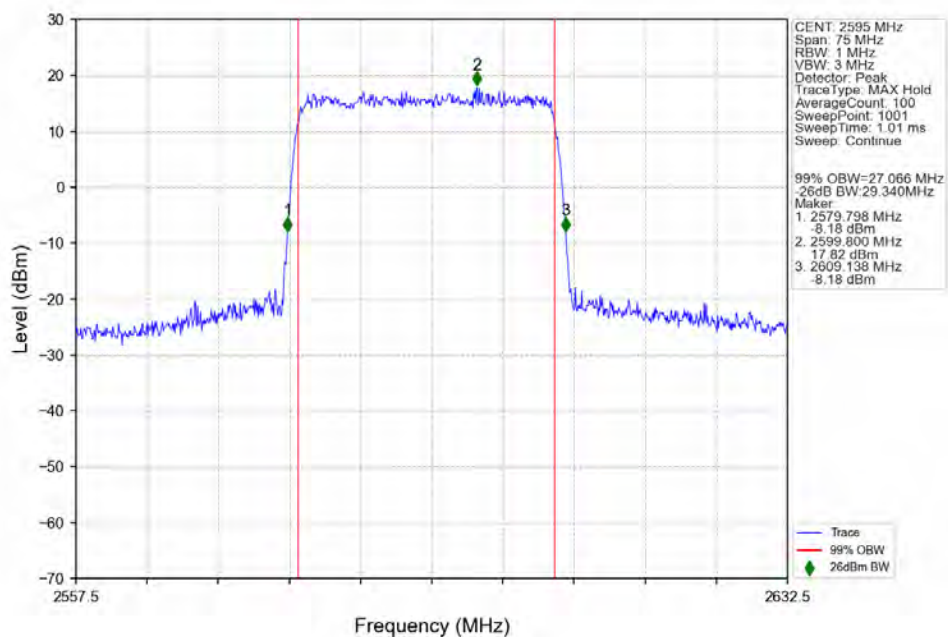
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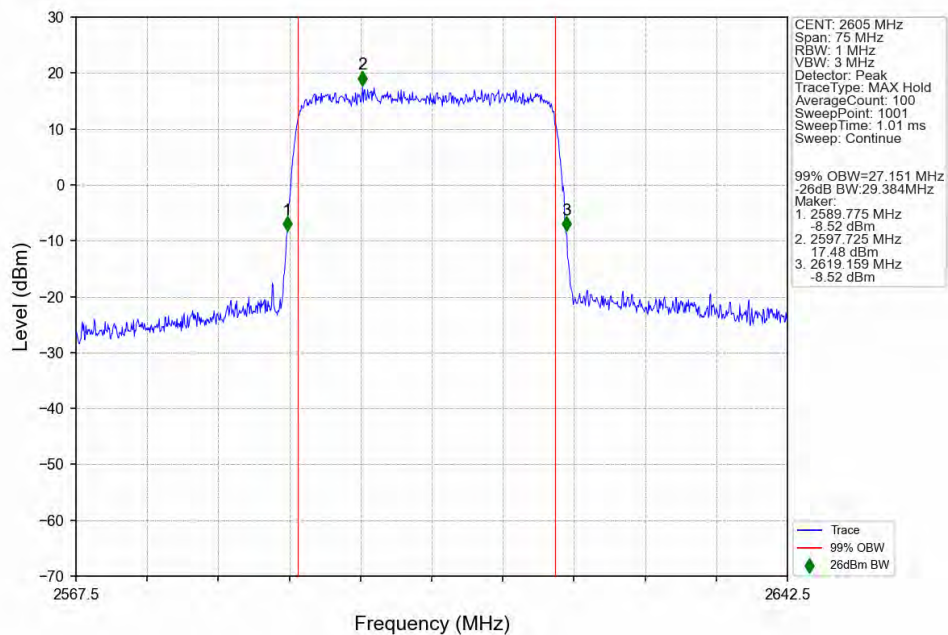
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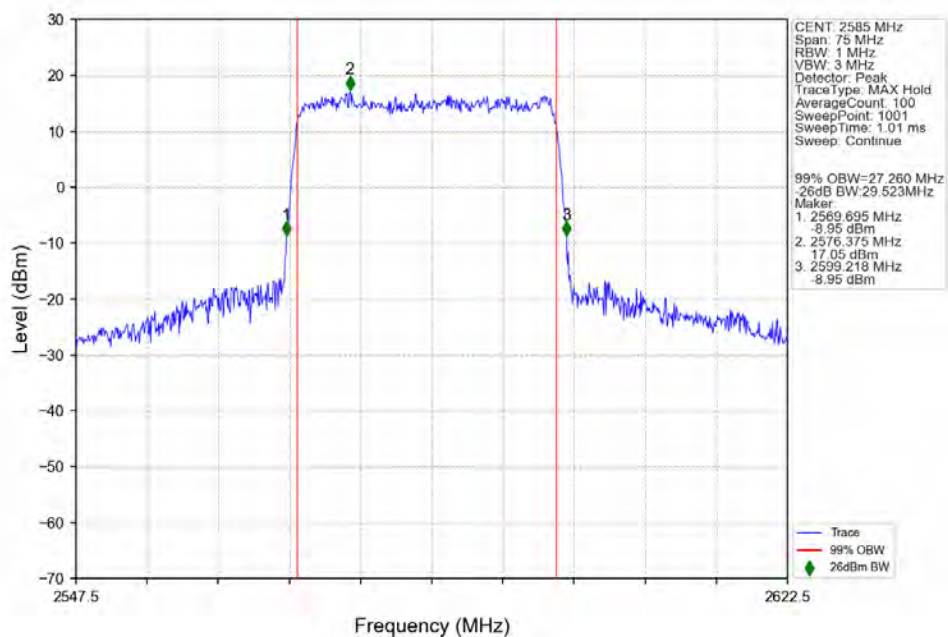
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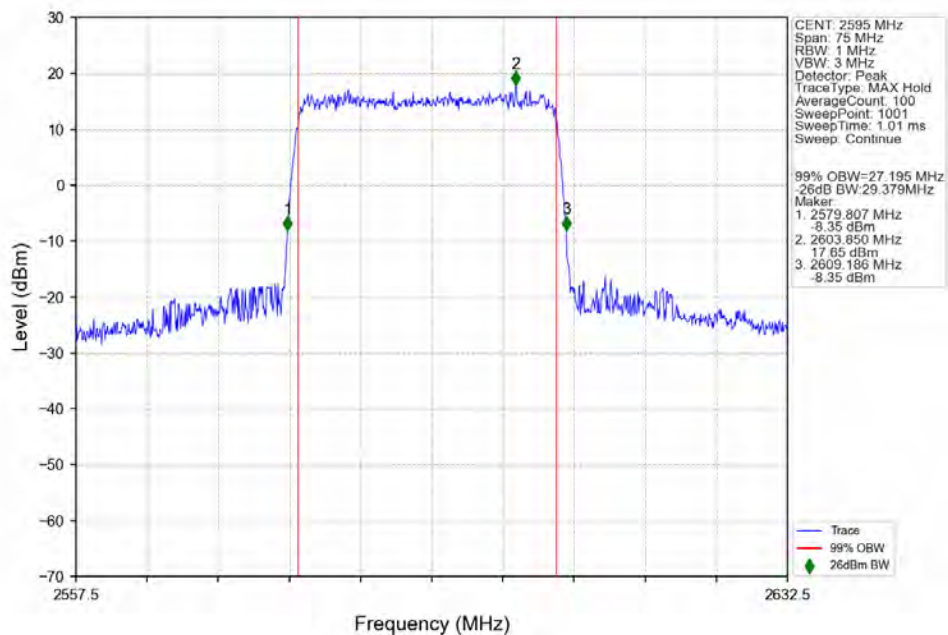
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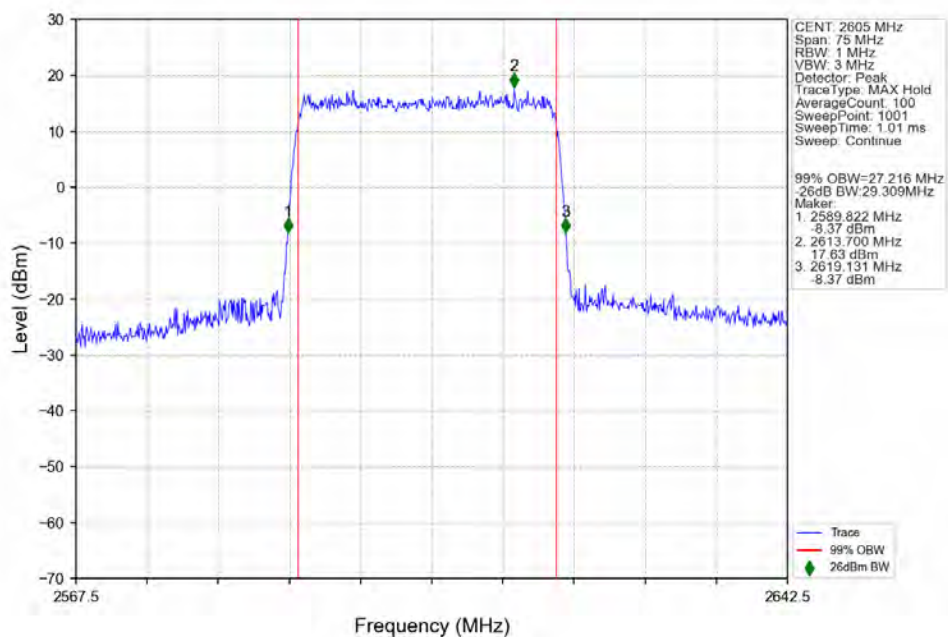
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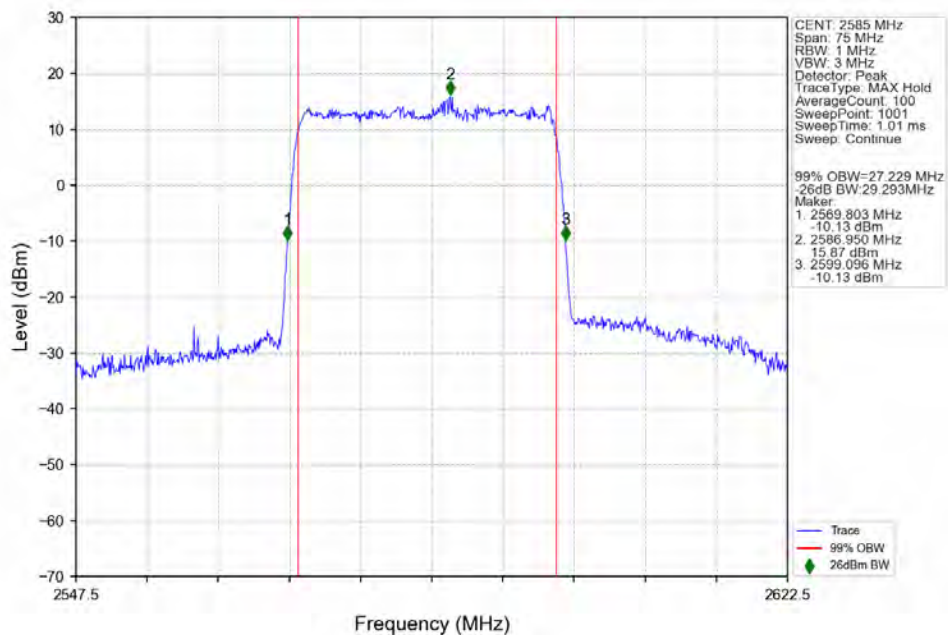
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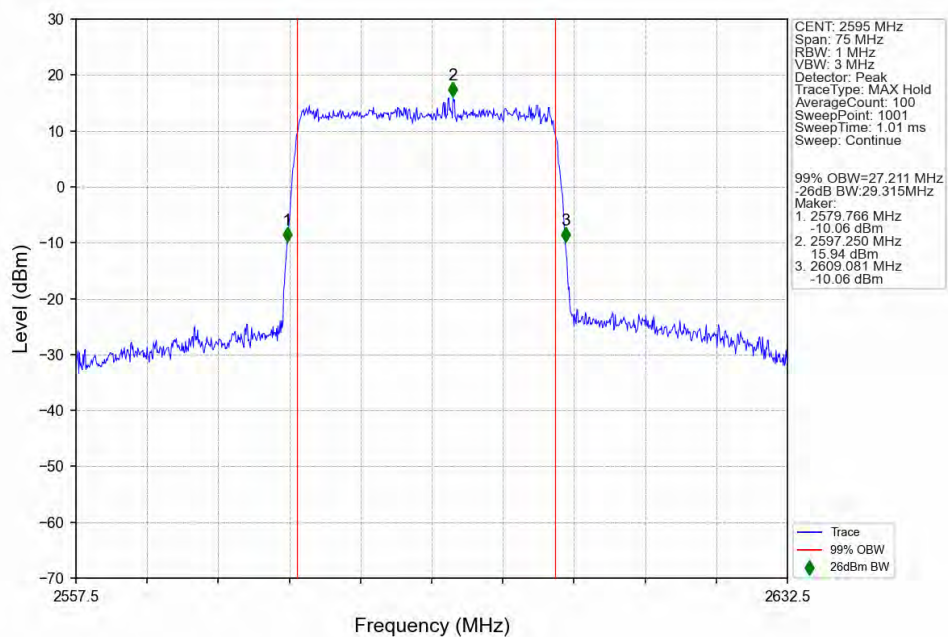
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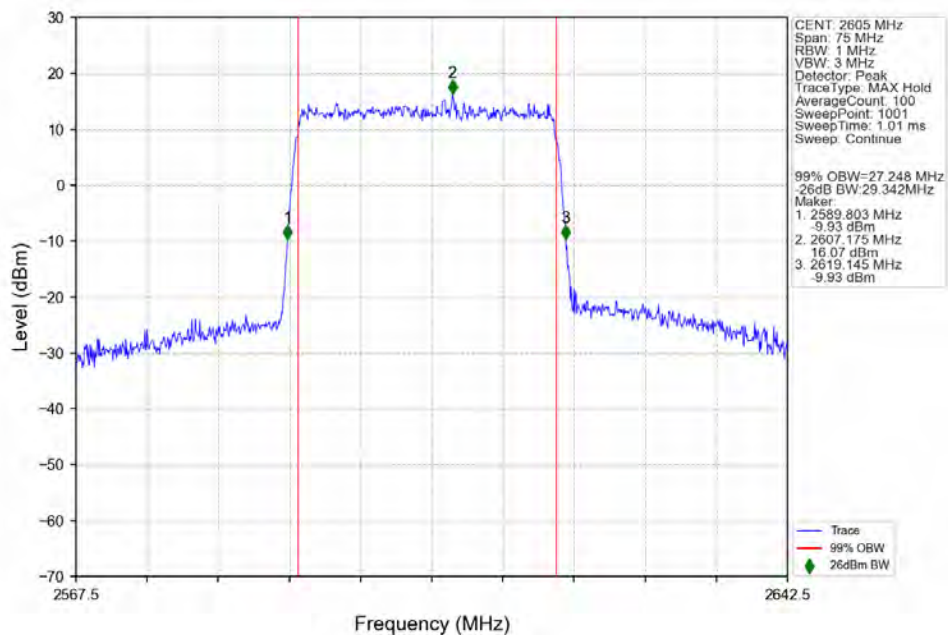
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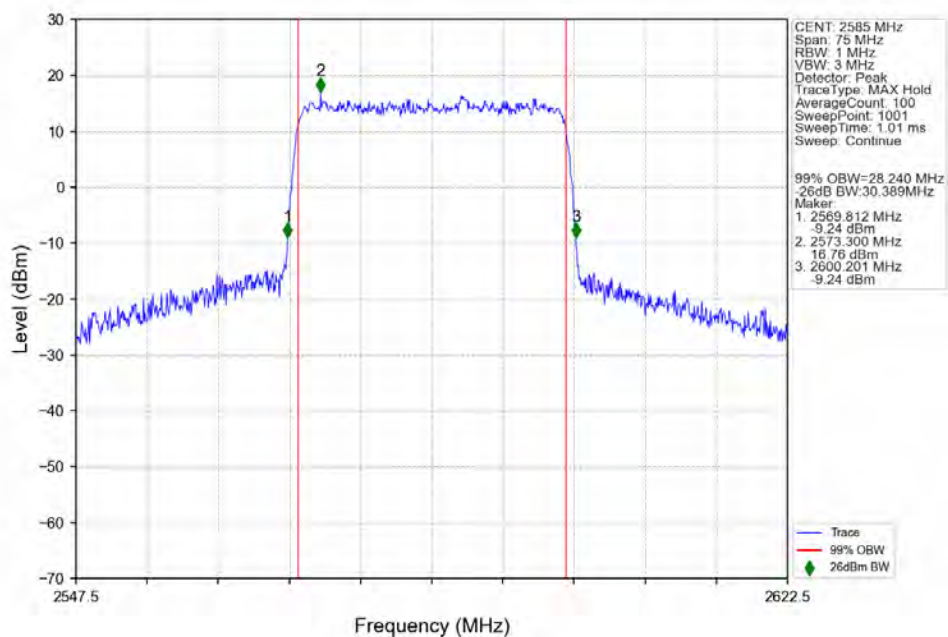
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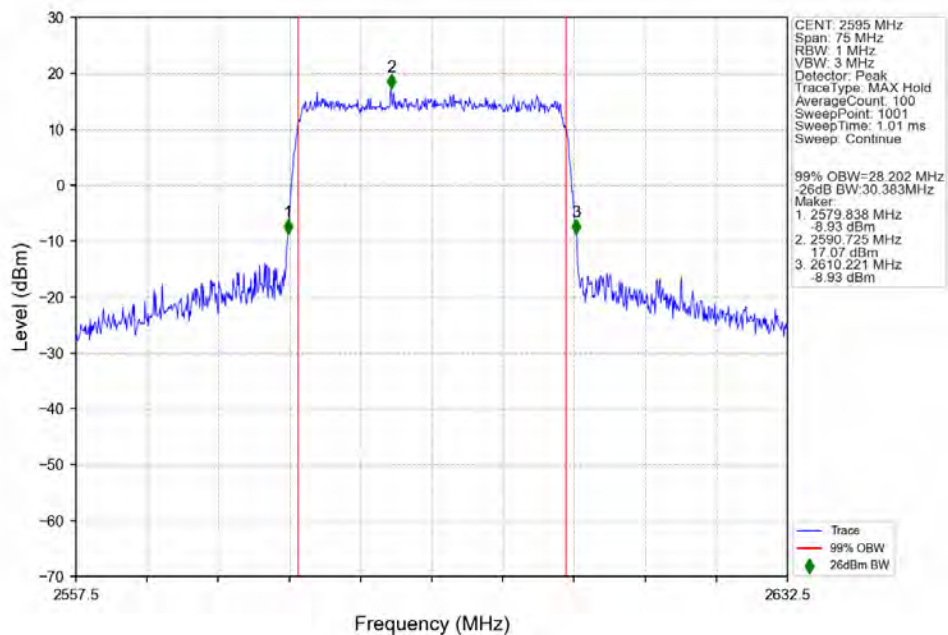
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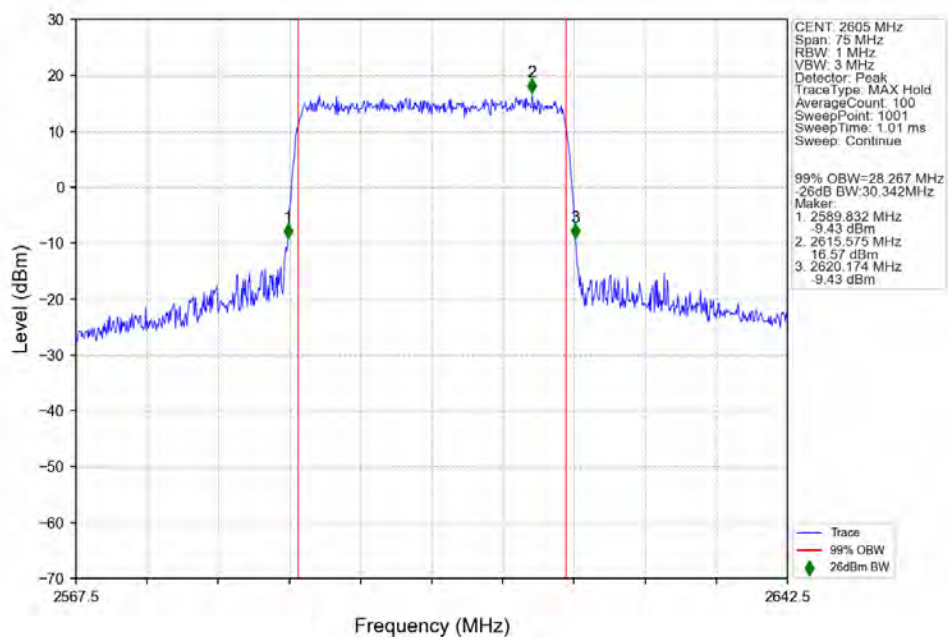
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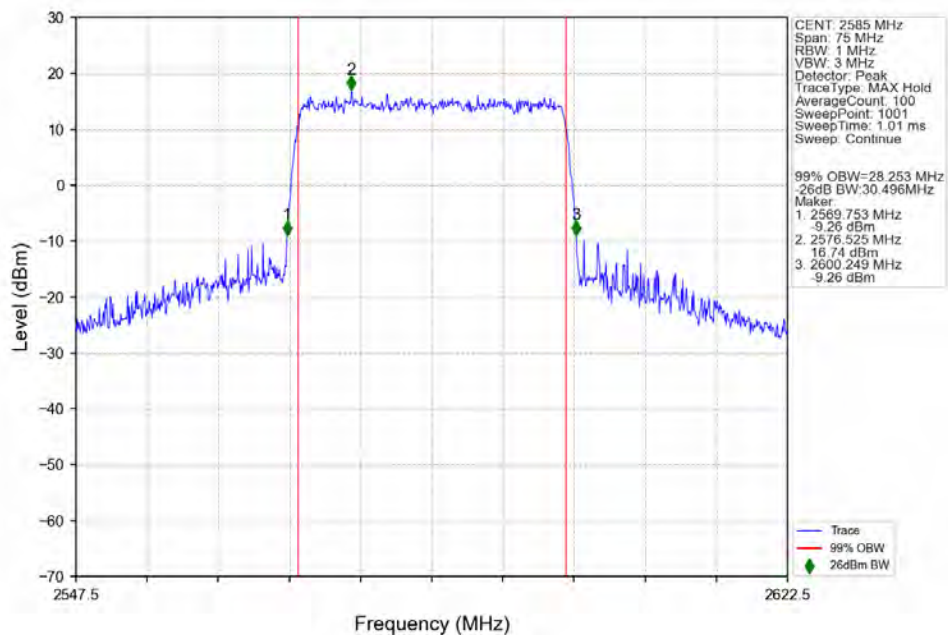
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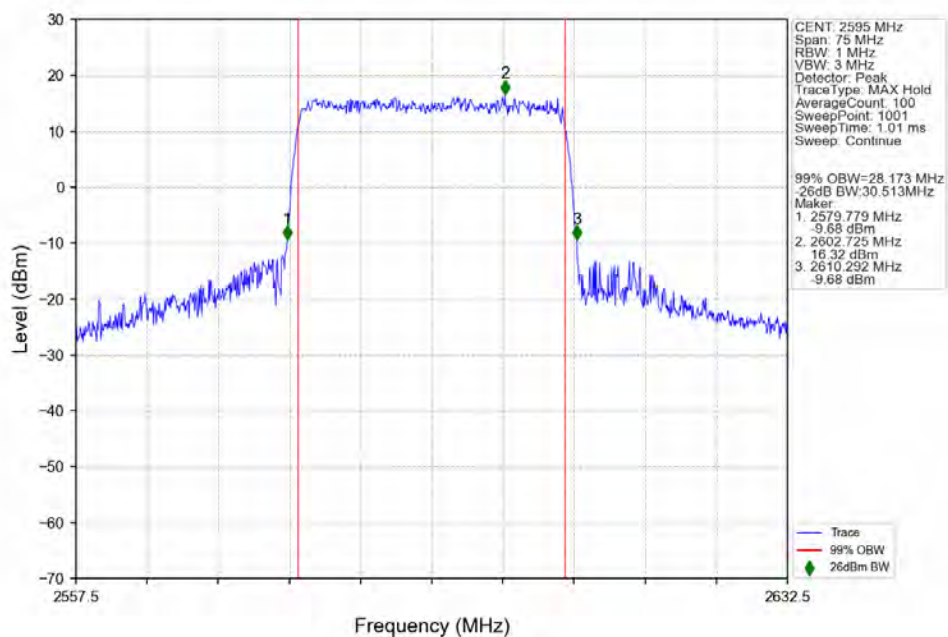
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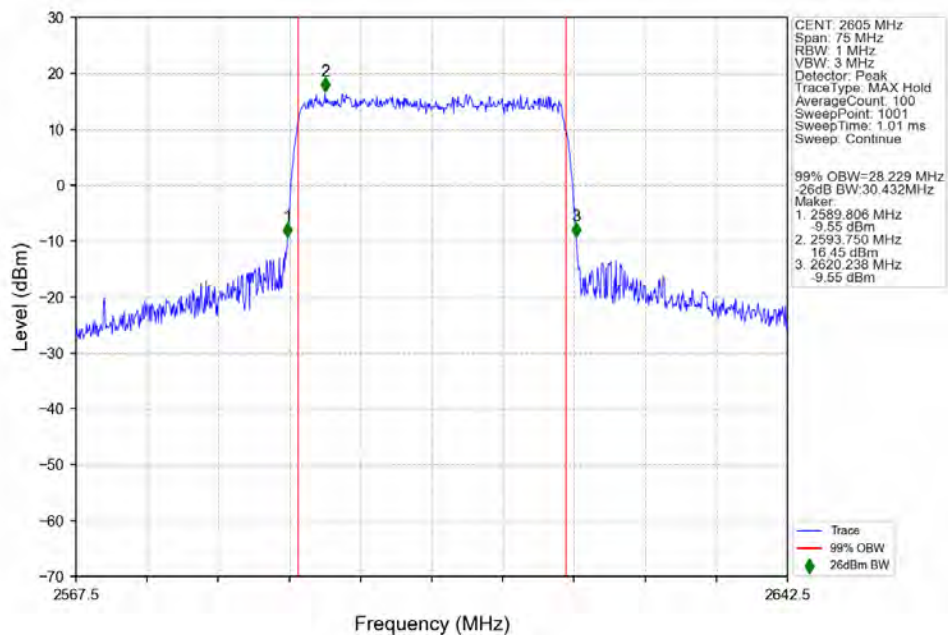
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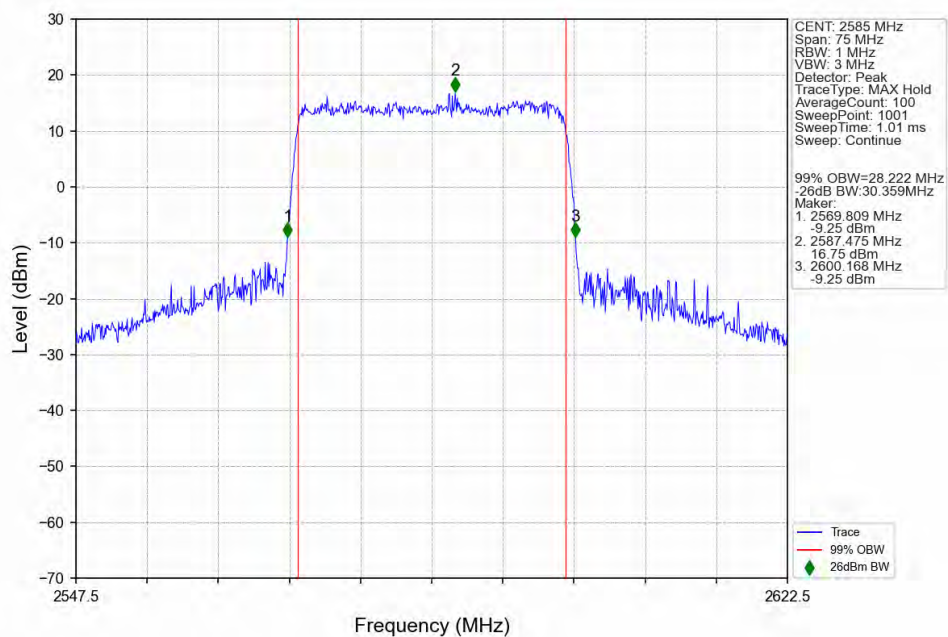
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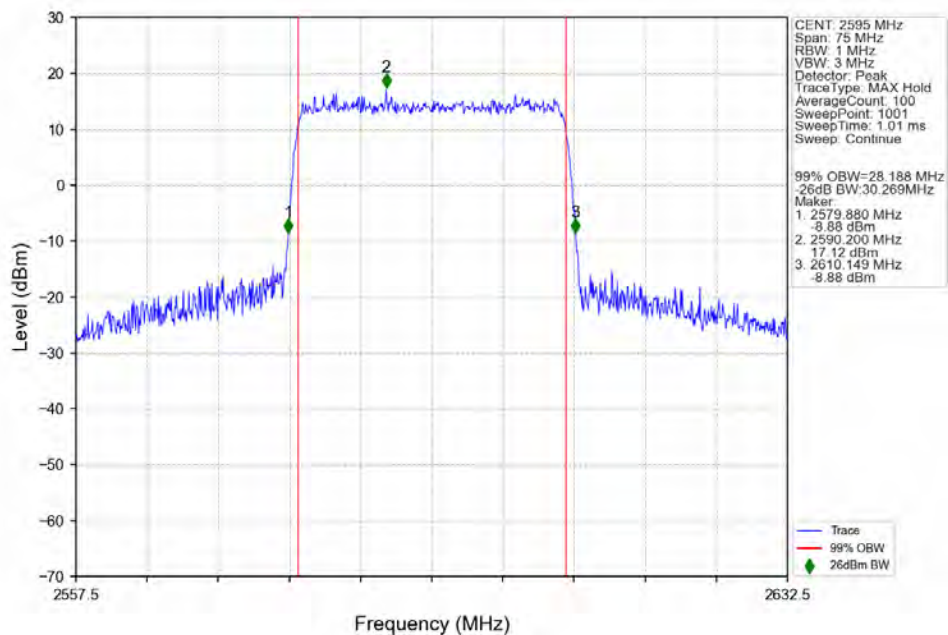
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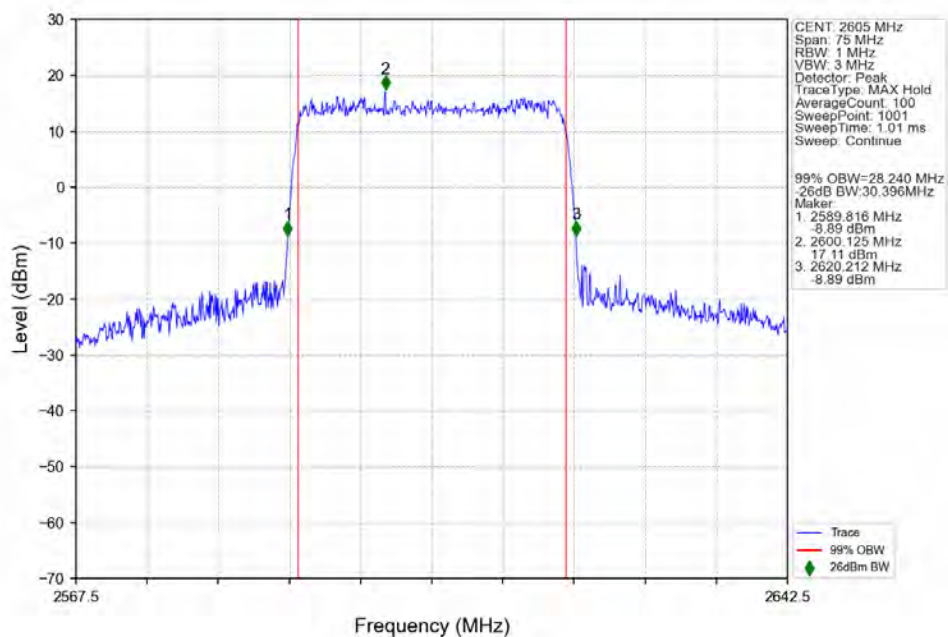
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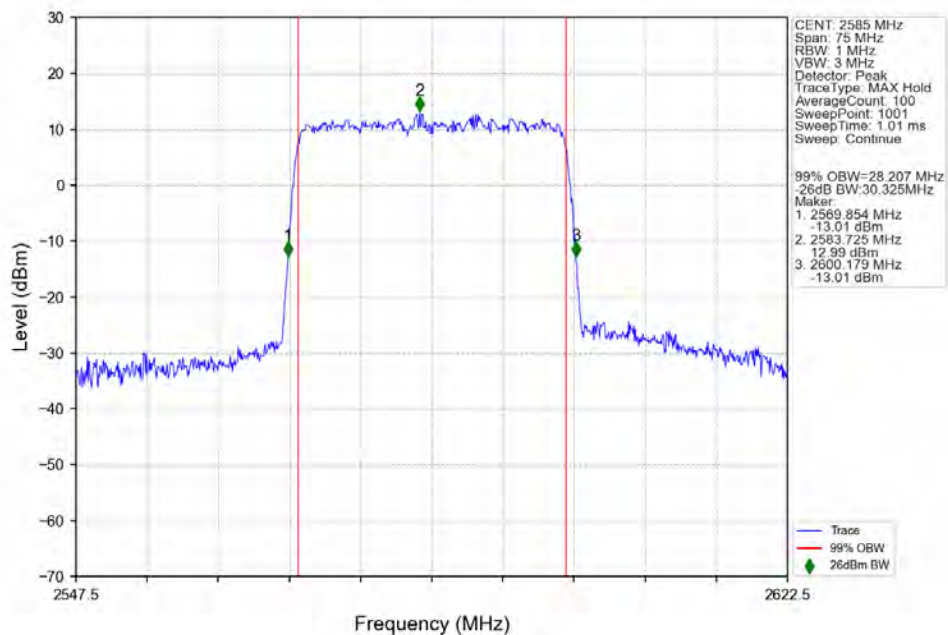
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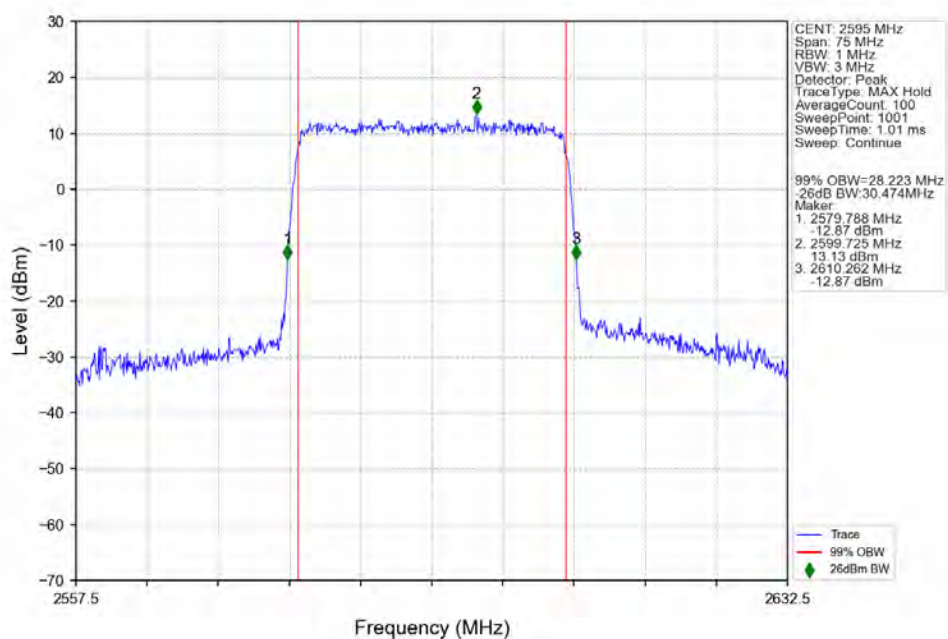
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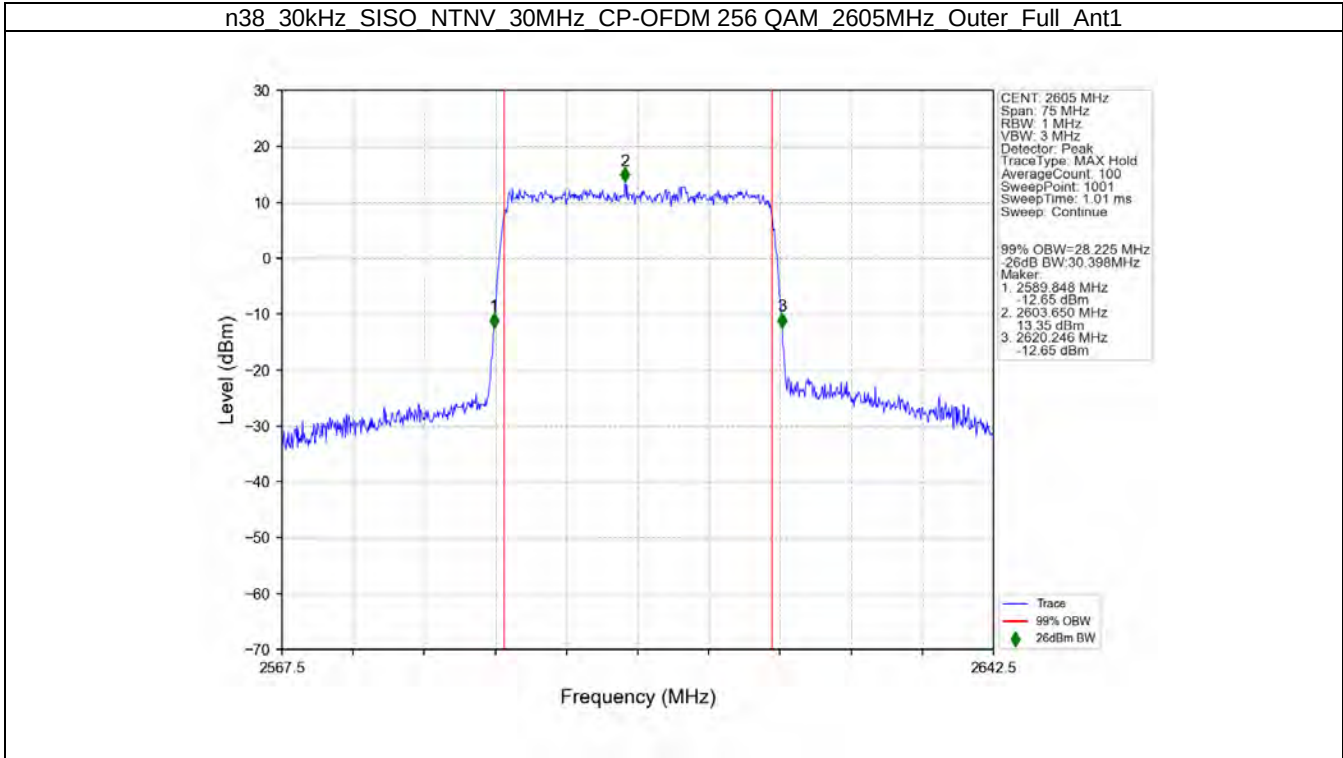


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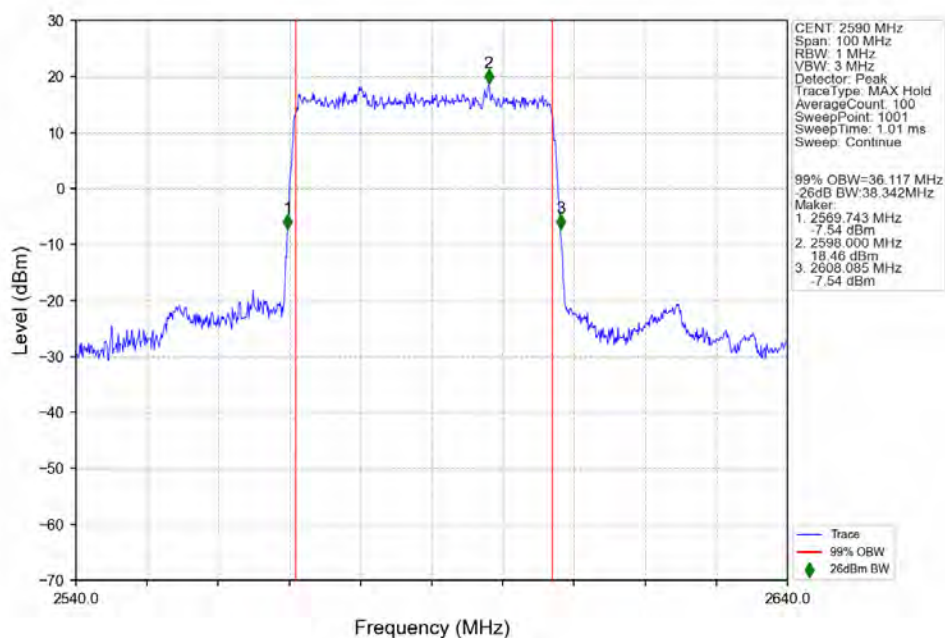
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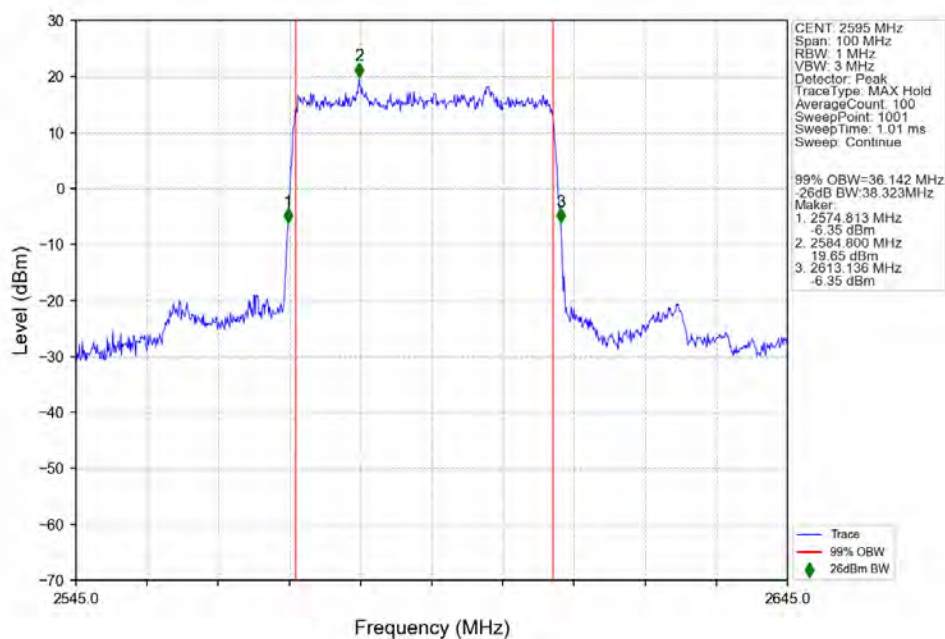


3.2.6 30k_SISO_40MHz_NTNV

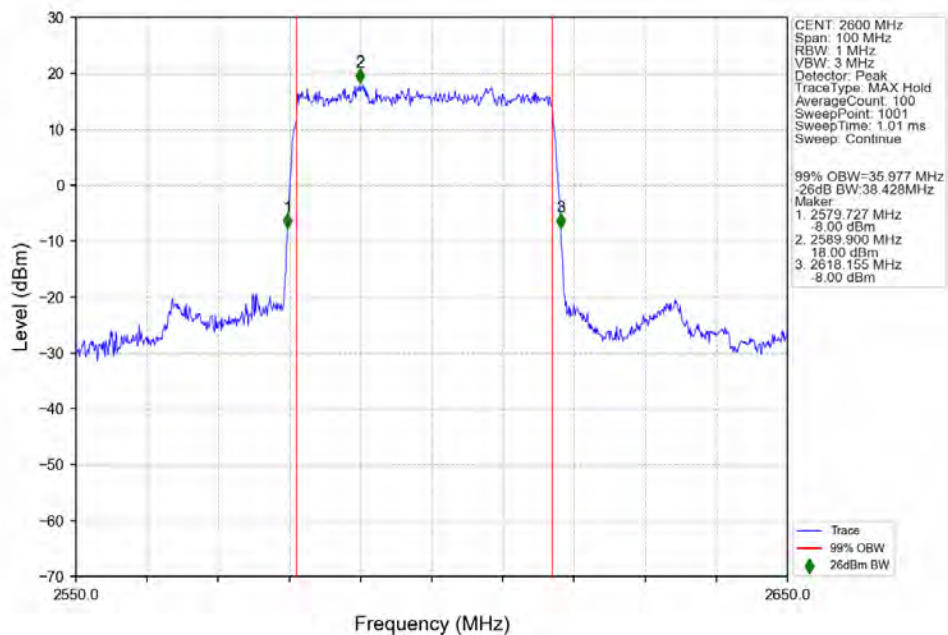
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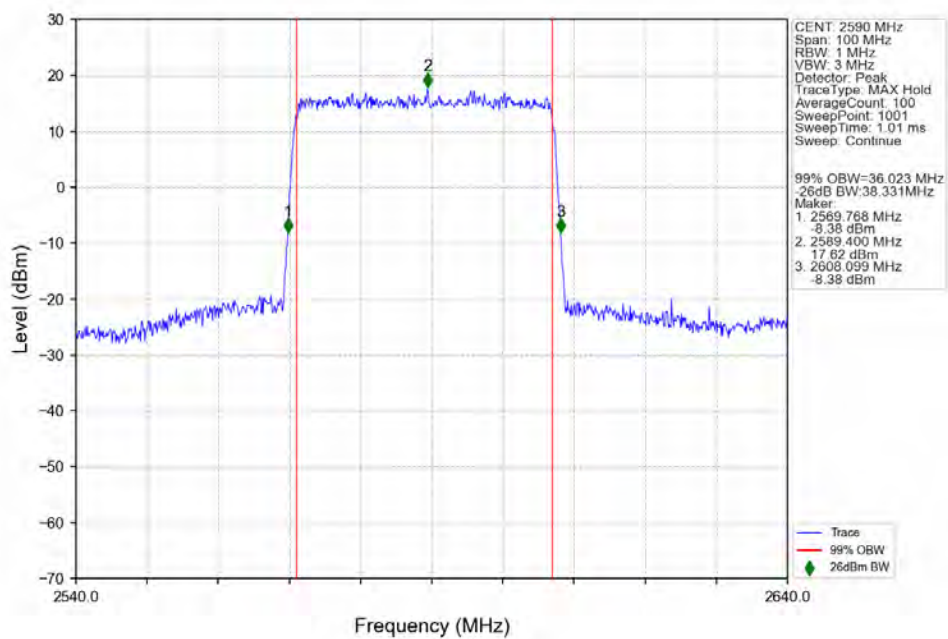
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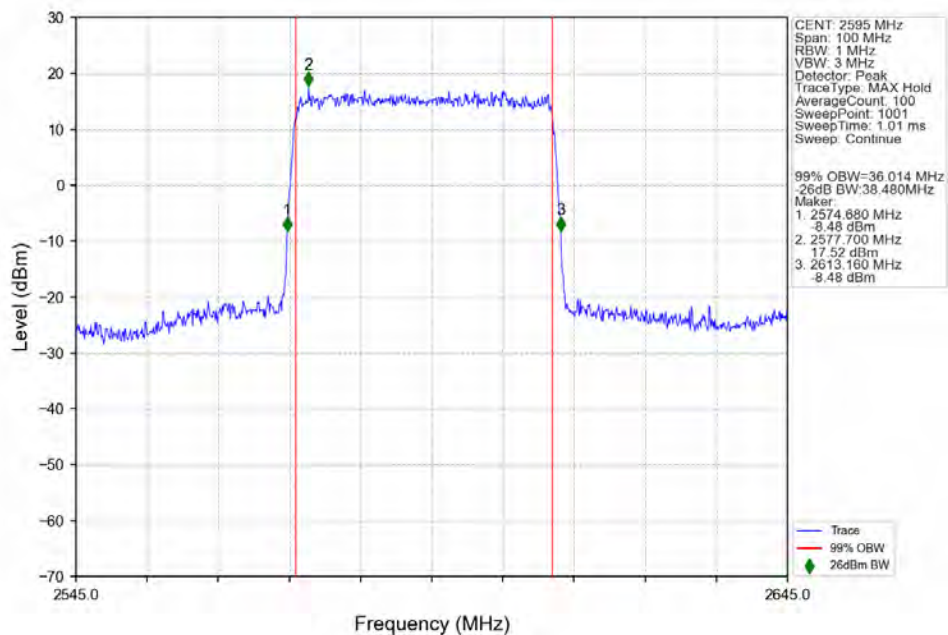
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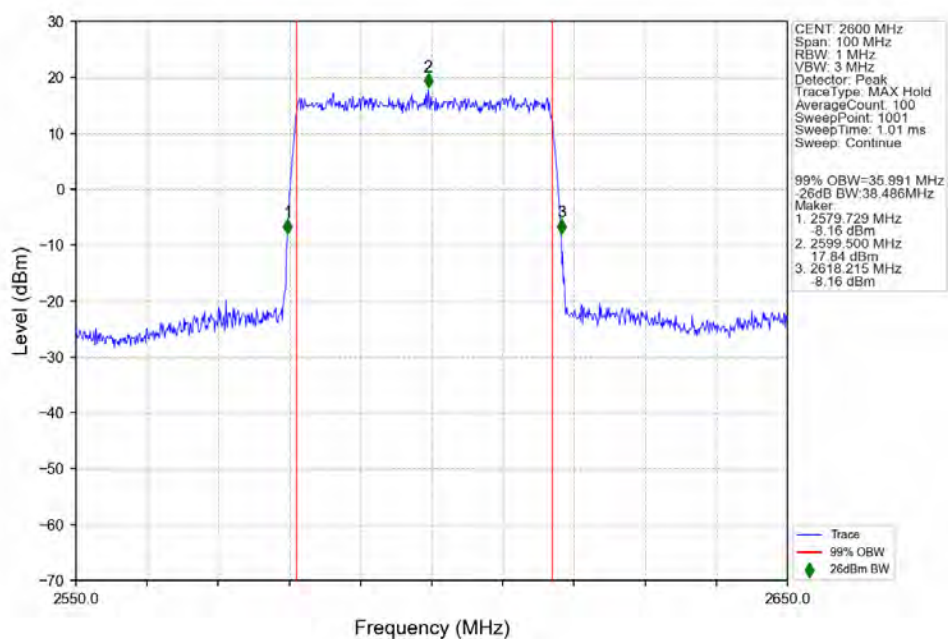
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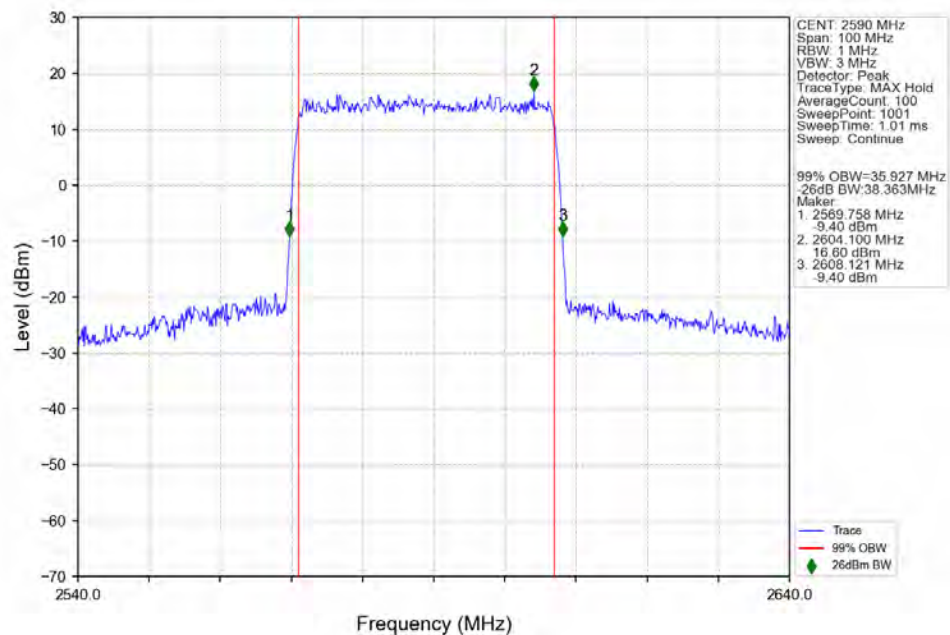
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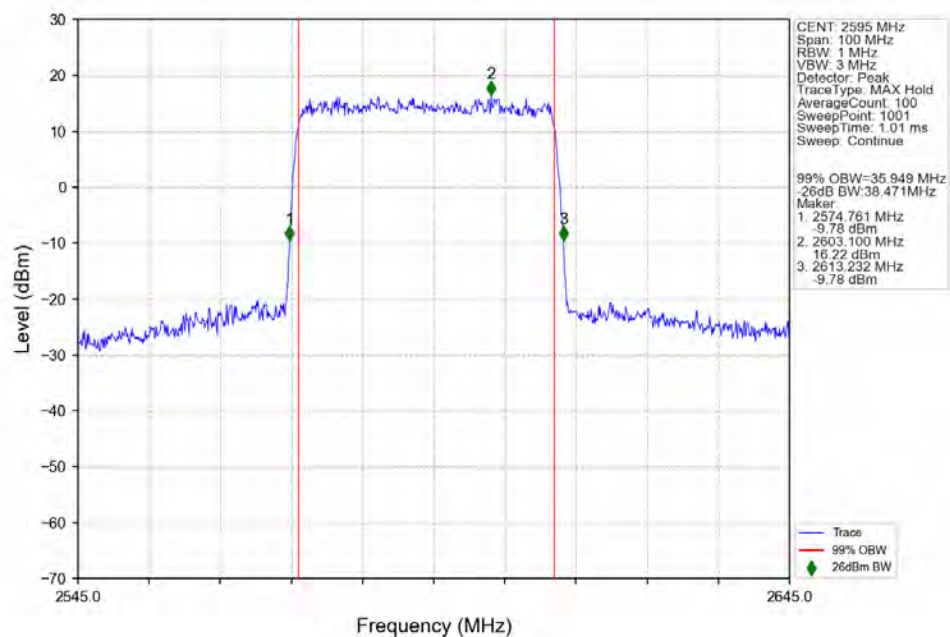
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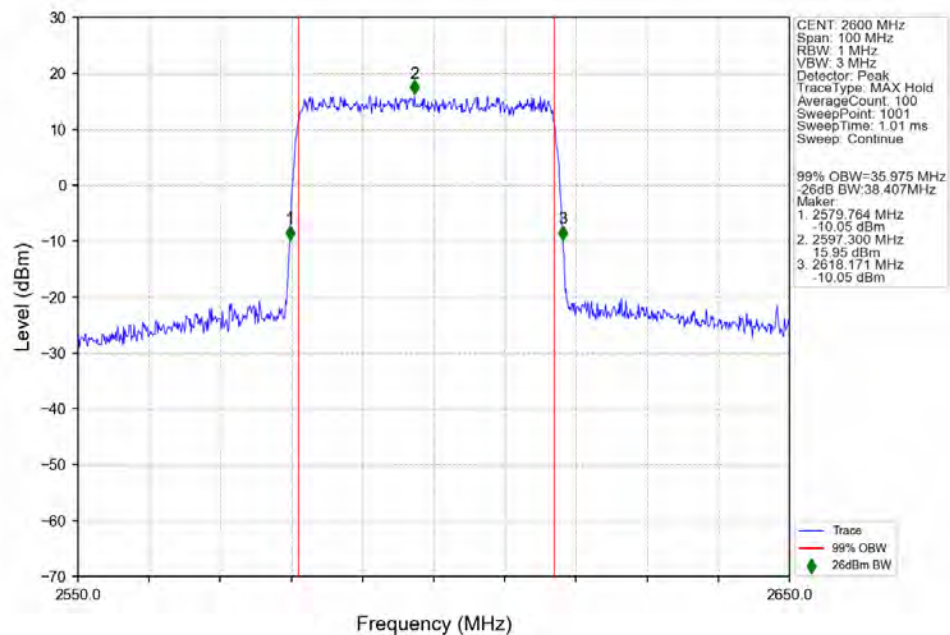
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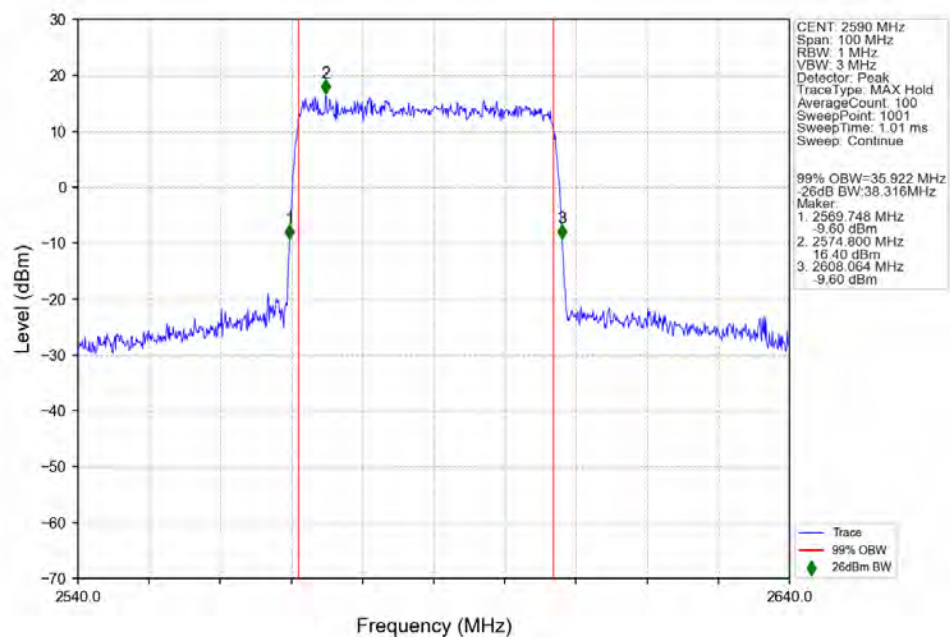
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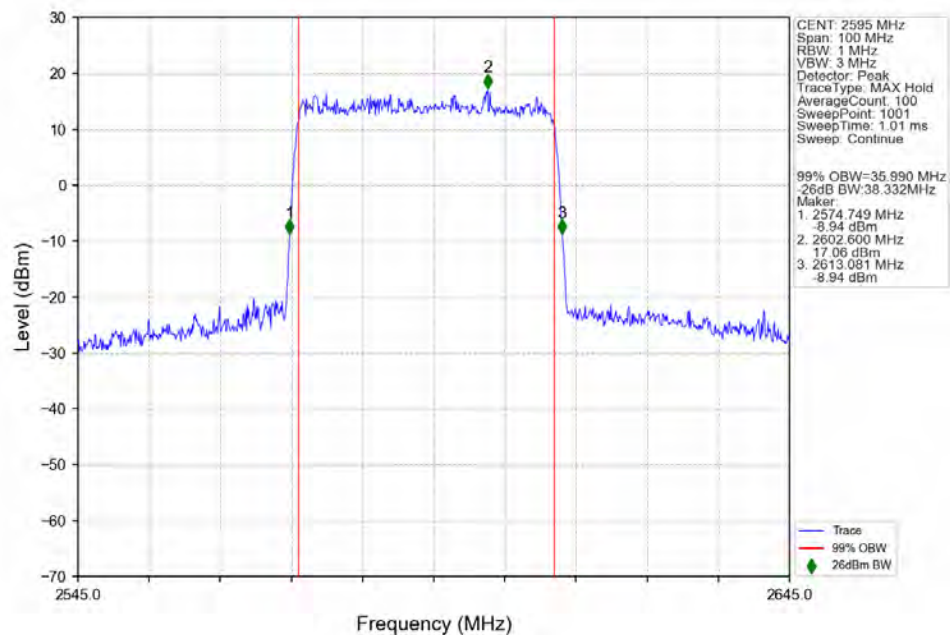
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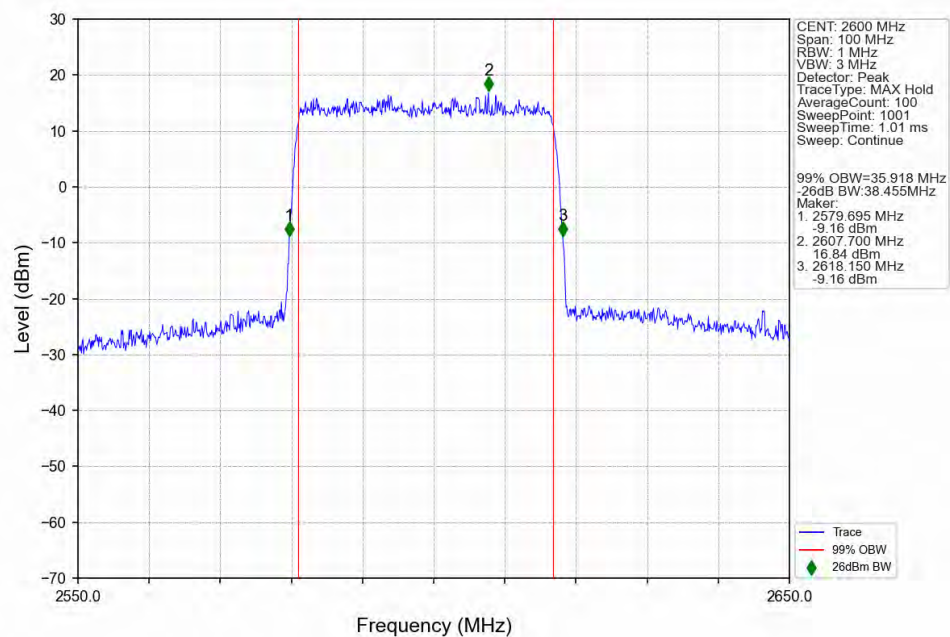
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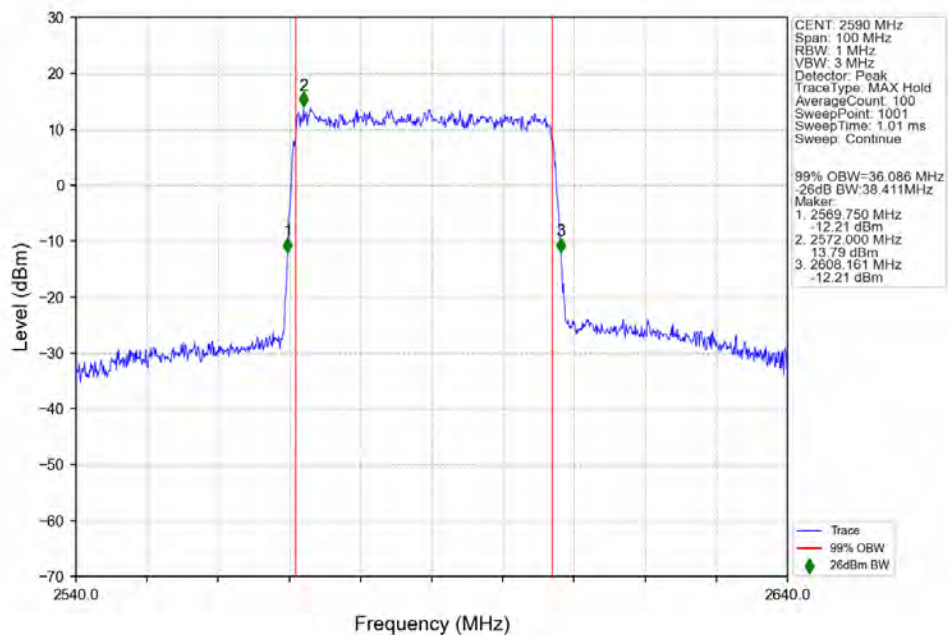
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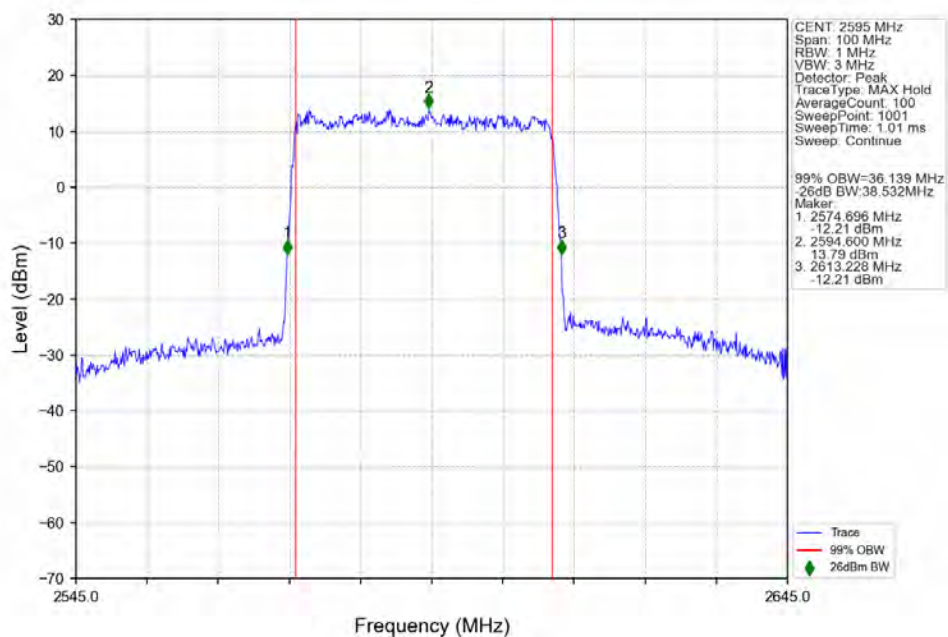
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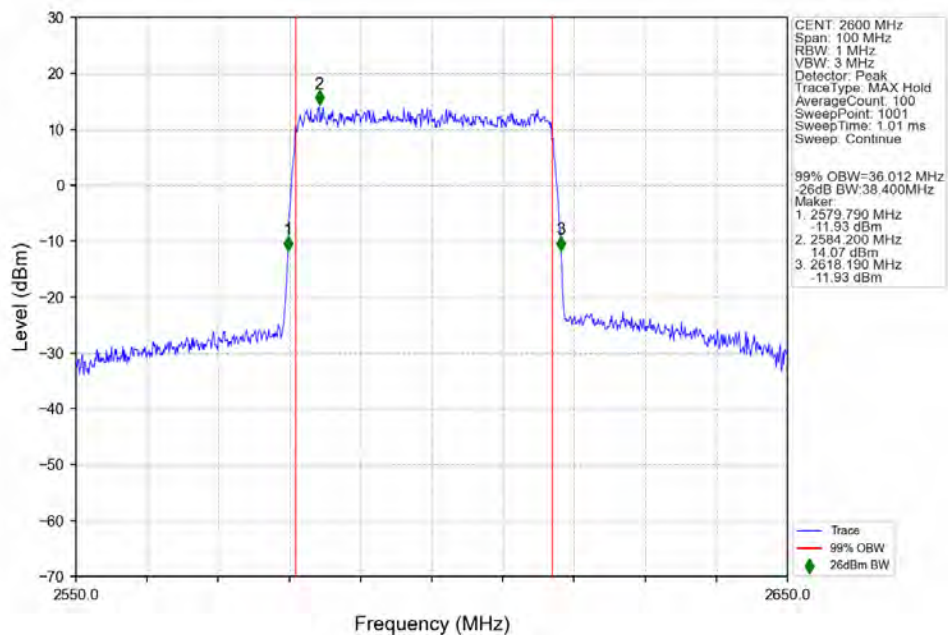
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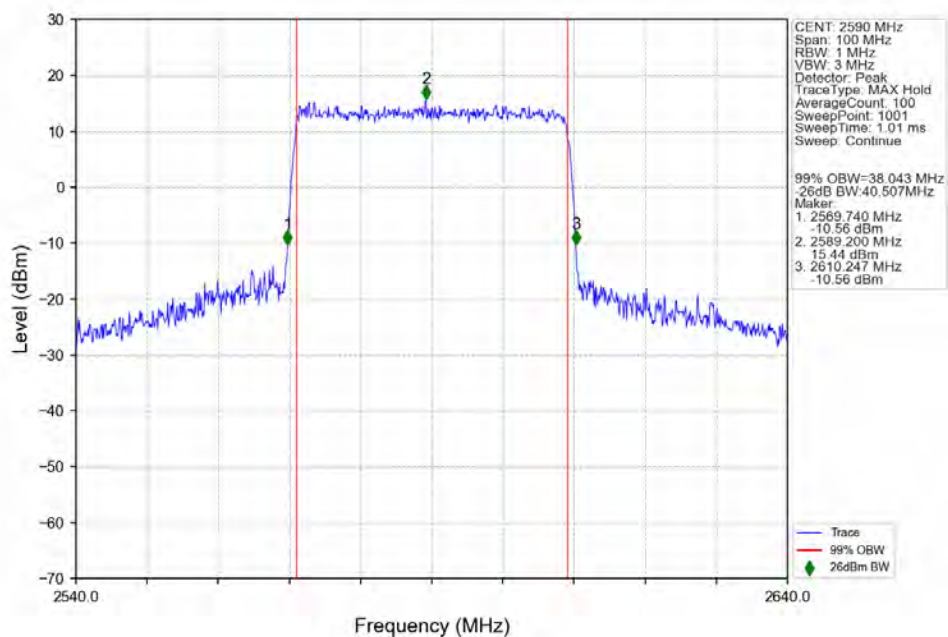
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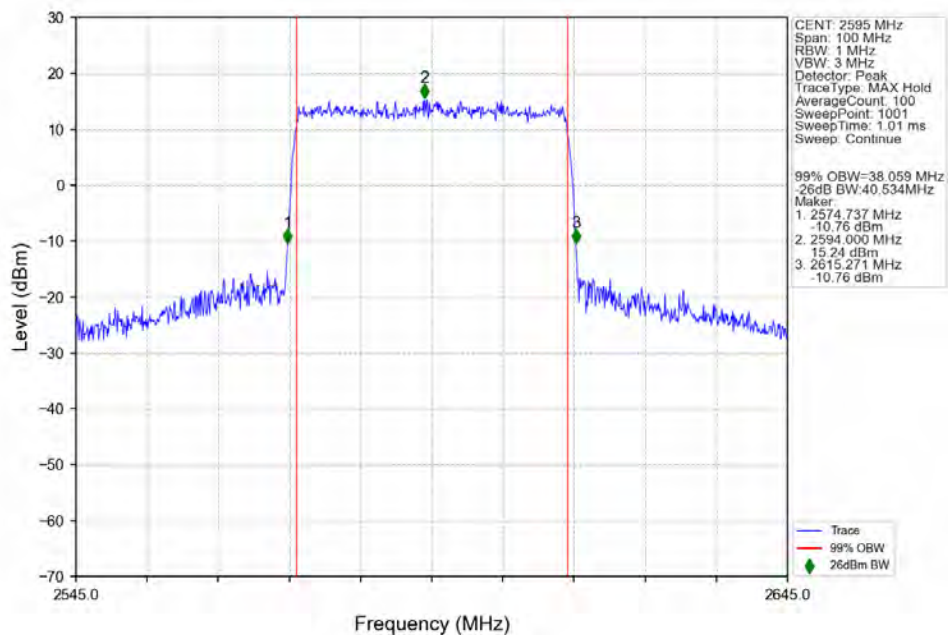
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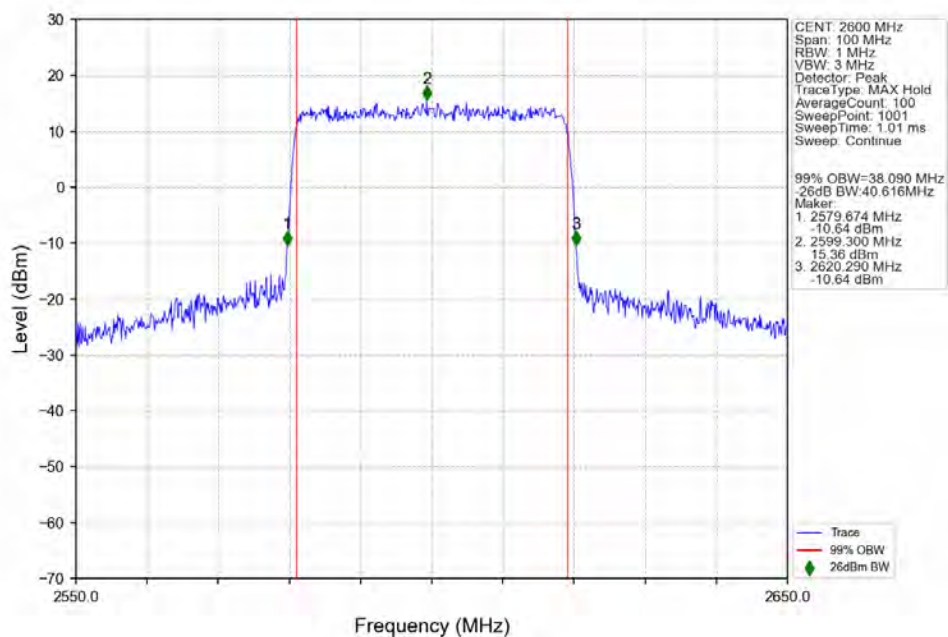
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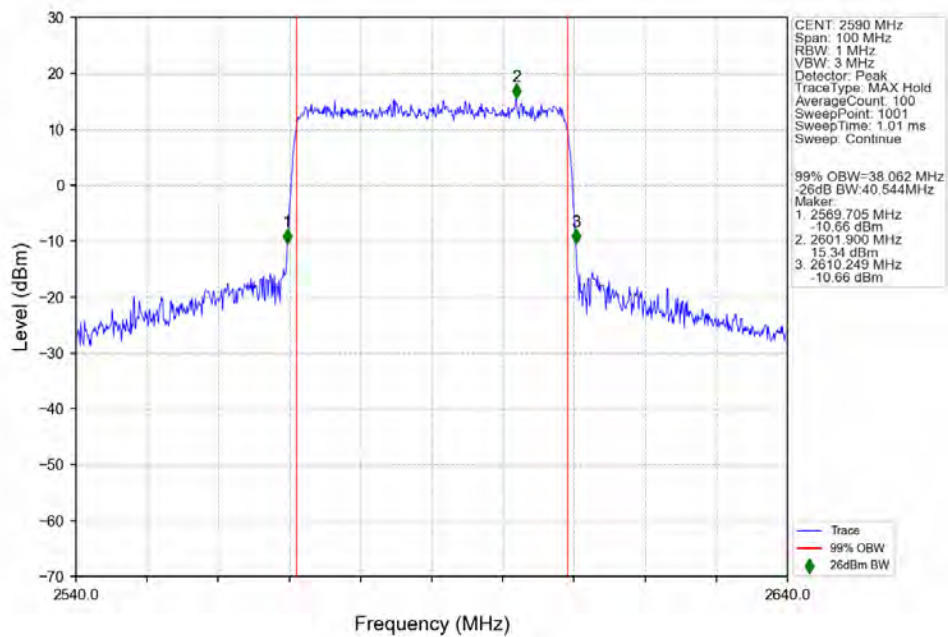
n38 30kHz SISO NTN 40MHz CP-OFDM QPSK 2595MHz Outer Full Ant1



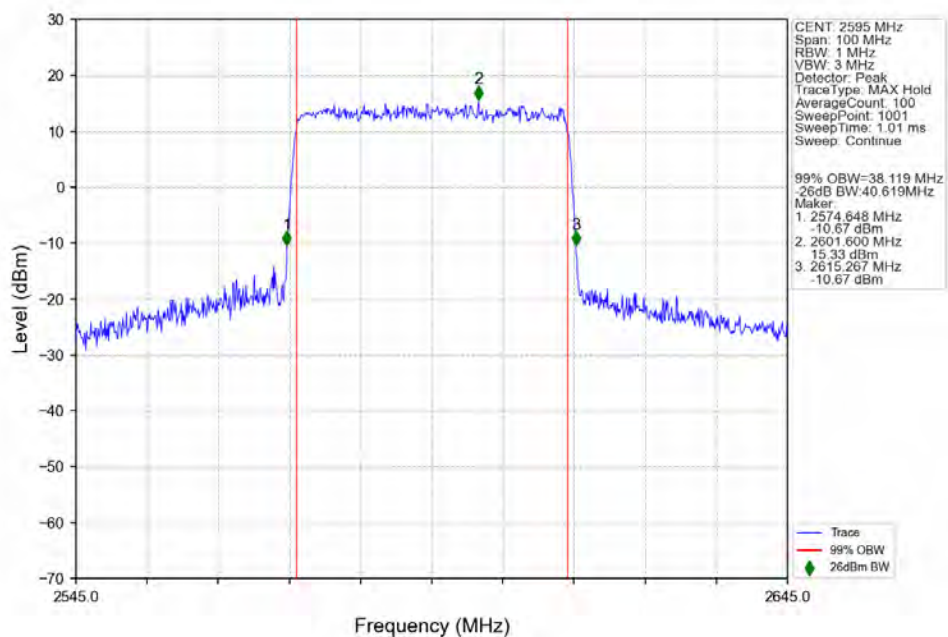
n38 30kHz SISO NTN 40MHz CP-OFDM QPSK 2600MHz Outer Full Ant1



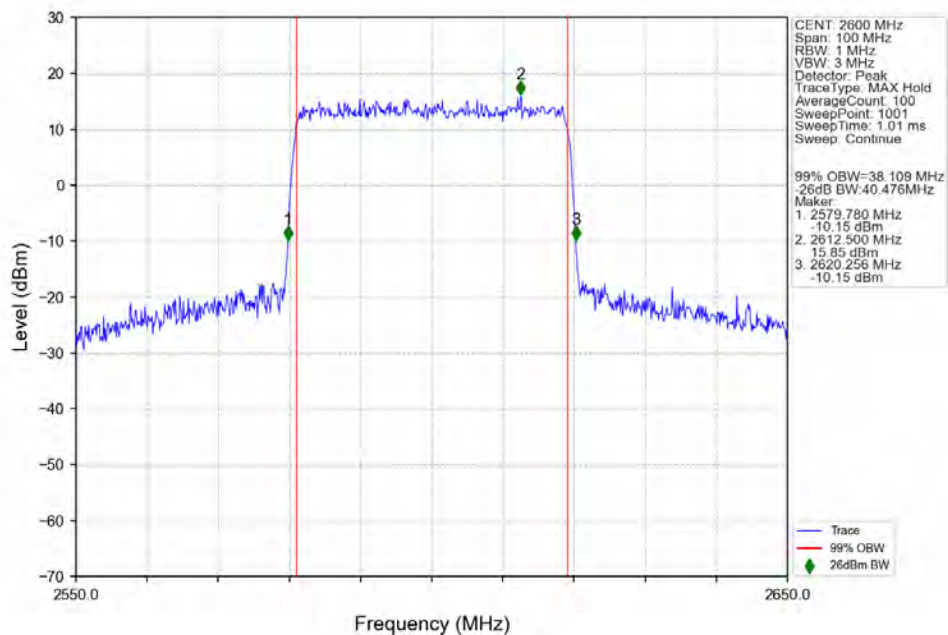
n38 30kHz SISO NTN 40MHz CP-OFDM 16 QAM 2590MHz Outer Full Ant1



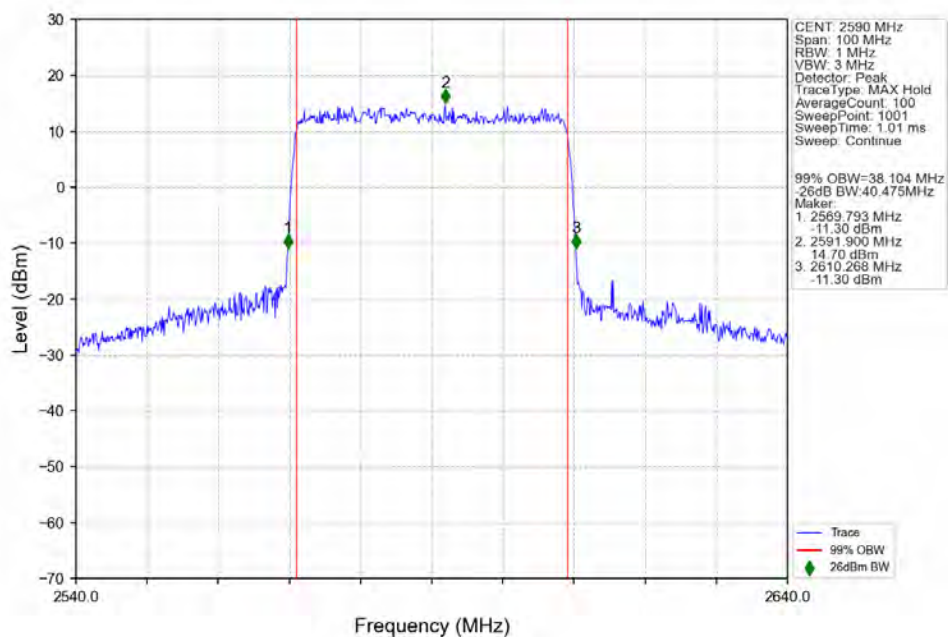
n38 30kHz SISO NTN 40MHz CP-OFDM 16 QAM 2595MHz Outer Full Ant1



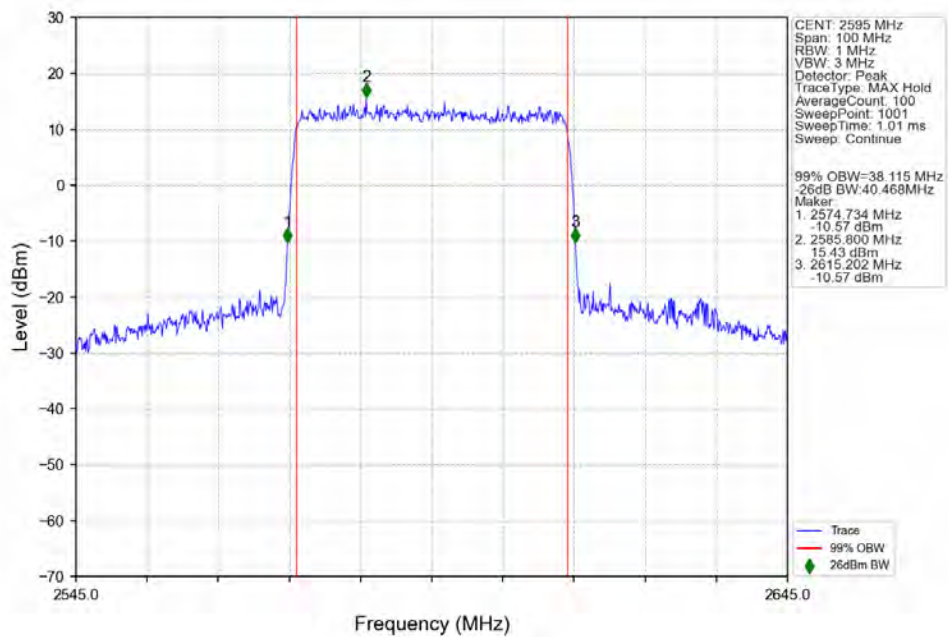
n38 30kHz SISO NTN 40MHz CP-OFDM 16 QAM 2600MHz Outer Full Ant1



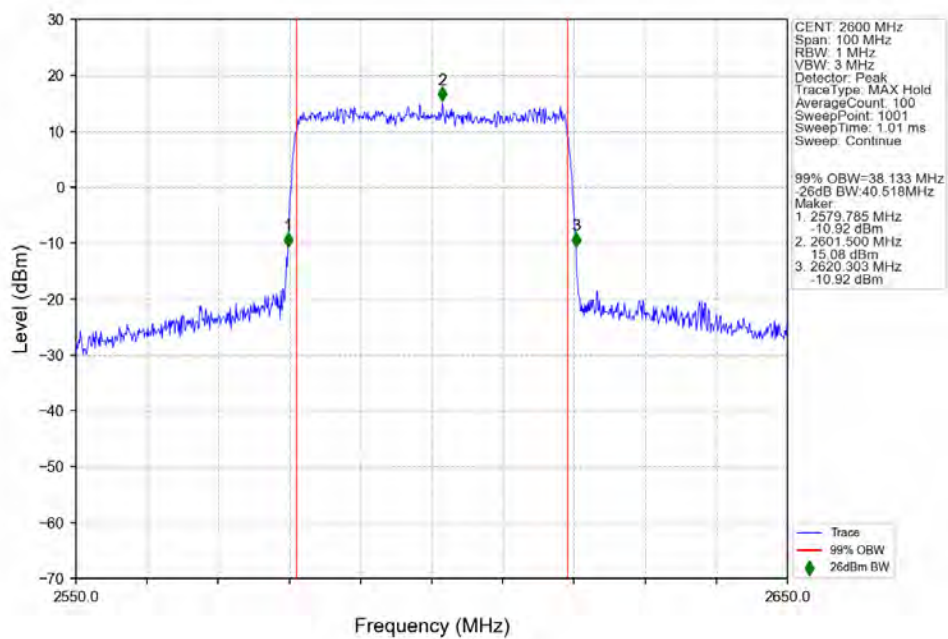
n38 30kHz SISO NTN 40MHz CP-OFDM 64 QAM 2590MHz Outer Full Ant1



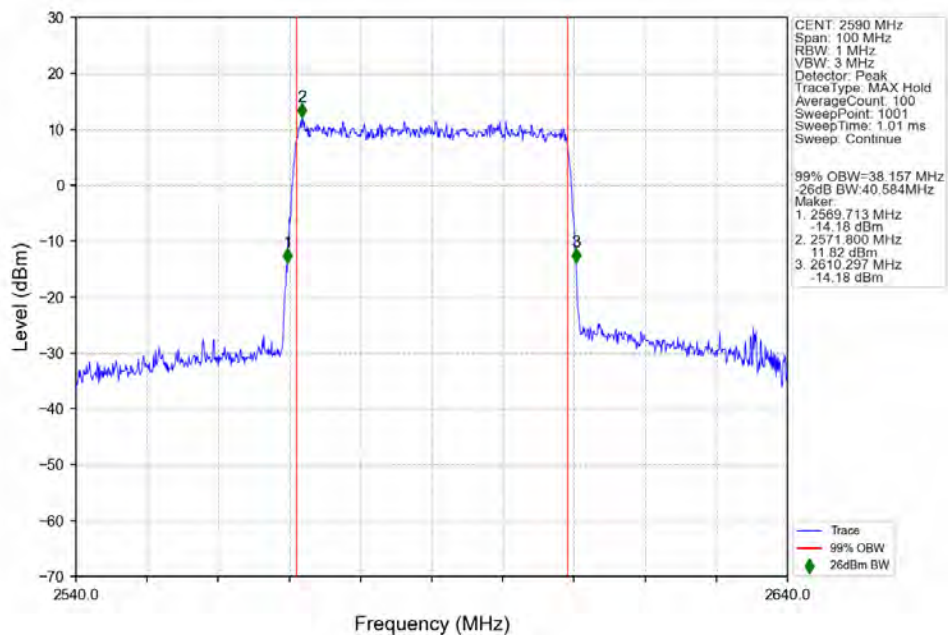
n38 30kHz SISO NTV 40MHz CP-OFDM 64 QAM 2595MHz Outer Full Ant1



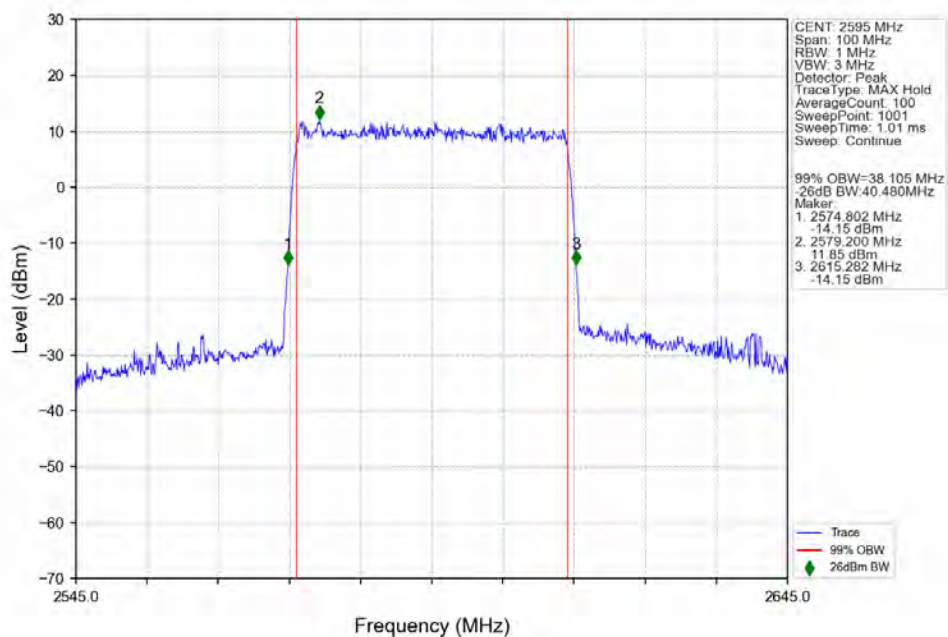
n38 30kHz SISO NTV 40MHz CP-OFDM 64 QAM 2600MHz Outer Full Ant1



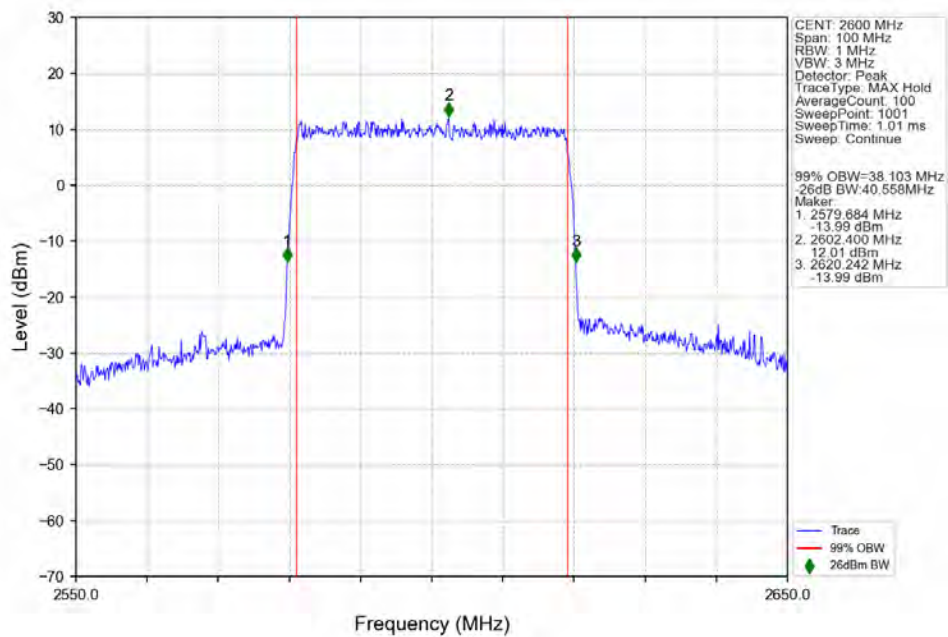
n38 30kHz SISO NTN 40MHz CP-OFDM 256 QAM 2590MHz Outer Full Ant1



n38 30kHz SISO NTN 40MHz CP-OFDM 256 QAM 2595MHz Outer Full Ant1



n38 30kHz SISO NTN 40MHz CP-OFDM 256 QAM 2600MHz Outer Full Ant1



4. Peak-Average Ratio

4.1 Test Result

4.1.1 30k_SISO_10MHz_NTNV

5G NR n38 SCS=30kHz SISO 10MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2575	Outer_Full	9.54	/	/	<=13	Pass
	2595	Outer_Full	9.56	/	/	<=13	Pass
	2615	Outer_Full	9.54	/	/	<=13	Pass
DFT-s-OFDM QPSK	2575	Outer_Full	10.08	/	/	<=13	Pass
	2595	Outer_Full	10.06	/	/	<=13	Pass
	2615	Outer_Full	10.06	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	2575	Outer_Full	10.48	/	/	<=13	Pass
	2595	Outer_Full	10.44	/	/	<=13	Pass
	2615	Outer_Full	10.42	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	2575	Outer_Full	10.60	/	/	<=13	Pass
	2595	Outer_Full	10.52	/	/	<=13	Pass
	2615	Outer_Full	10.52	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	2575	Outer_Full	10.98	/	/	<=13	Pass
	2595	Outer_Full	10.88	/	/	<=13	Pass
	2615	Outer_Full	10.86	/	/	<=13	Pass
CP-OFDM QPSK	2575	Outer_Full	11.18	/	/	<=13	Pass
	2595	Outer_Full	11.10	/	/	<=13	Pass
	2615	Outer_Full	11.08	/	/	<=13	Pass
CP-OFDM 16 QAM	2575	Outer_Full	11.16	/	/	<=13	Pass
	2595	Outer_Full	11.08	/	/	<=13	Pass
	2615	Outer_Full	11.08	/	/	<=13	Pass
CP-OFDM 64 QAM	2575	Outer_Full	11.30	/	/	<=13	Pass
	2595	Outer_Full	11.24	/	/	<=13	Pass
	2615	Outer_Full	11.22	/	/	<=13	Pass
CP-OFDM 256 QAM	2575	Outer_Full	12.24	/	/	<=13	Pass
	2595	Outer_Full	12.10	/	/	<=13	Pass
	2615	Outer_Full	12.02	/	/	<=13	Pass

4.1.2 30k_SISO_15MHz_NTNV

5G NR n38 SCS=30kHz SISO 15MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2577.5	Outer_Full	9.50	/	/	<=13	Pass
	2595	Outer_Full	9.54	/	/	<=13	Pass
	2612.5	Outer_Full	9.52	/	/	<=13	Pass
DFT-s-OFDM QPSK	2577.5	Outer_Full	9.68	/	/	<=13	Pass
	2595	Outer_Full	9.68	/	/	<=13	Pass
	2612.5	Outer_Full	9.66	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	2577.5	Outer_Full	10.10	/	/	<=13	Pass
	2595	Outer_Full	10.04	/	/	<=13	Pass
	2612.5	Outer_Full	10.04	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	2577.5	Outer_Full	10.20	/	/	<=13	Pass
	2595	Outer_Full	10.14	/	/	<=13	Pass
	2612.5	Outer_Full	10.14	/	/	<=13	Pass

DFT-s-OFDM 256 QAM	2577.5	Outer_Full	10.60	/	/	<=13	Pass
	2595	Outer_Full	10.52	/	/	<=13	Pass
	2612.5	Outer_Full	10.50	/	/	<=13	Pass
CP-OFDM QPSK	2577.5	Outer_Full	10.74	/	/	<=13	Pass
	2595	Outer_Full	10.68	/	/	<=13	Pass
	2612.5	Outer_Full	10.66	/	/	<=13	Pass
CP-OFDM 16 QAM	2577.5	Outer_Full	10.76	/	/	<=13	Pass
	2595	Outer_Full	10.68	/	/	<=13	Pass
	2612.5	Outer_Full	10.68	/	/	<=13	Pass
CP-OFDM 64 QAM	2577.5	Outer_Full	10.88	/	/	<=13	Pass
	2595	Outer_Full	10.80	/	/	<=13	Pass
	2612.5	Outer_Full	10.78	/	/	<=13	Pass
CP-OFDM 256 QAM	2577.5	Outer_Full	11.90	/	/	<=13	Pass
	2595	Outer_Full	11.72	/	/	<=13	Pass
	2612.5	Outer_Full	11.68	/	/	<=13	Pass

4.1.3 30k_SISO_20MHz_NTNV

5G NR n38 SCS=30kHz SISO 20MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2580	Outer_Full	9.64	/	/	<=13	Pass
	2595	Outer_Full	9.66	/	/	<=13	Pass
	2610	Outer_Full	9.68	/	/	<=13	Pass
DFT-s-OFDM QPSK	2580	Outer_Full	10.14	/	/	<=13	Pass
	2595	Outer_Full	10.12	/	/	<=13	Pass
	2610	Outer_Full	10.12	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	2580	Outer_Full	10.54	/	/	<=13	Pass
	2595	Outer_Full	10.50	/	/	<=13	Pass
	2610	Outer_Full	10.50	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	2580	Outer_Full	10.66	/	/	<=13	Pass
	2595	Outer_Full	10.62	/	/	<=13	Pass
	2610	Outer_Full	10.62	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	2580	Outer_Full	10.96	/	/	<=13	Pass
	2595	Outer_Full	10.90	/	/	<=13	Pass
	2610	Outer_Full	10.88	/	/	<=13	Pass
CP-OFDM QPSK	2580	Outer_Full	11.24	/	/	<=13	Pass
	2595	Outer_Full	11.18	/	/	<=13	Pass
	2610	Outer_Full	11.18	/	/	<=13	Pass
CP-OFDM 16 QAM	2580	Outer_Full	11.28	/	/	<=13	Pass
	2595	Outer_Full	11.22	/	/	<=13	Pass
	2610	Outer_Full	11.20	/	/	<=13	Pass
CP-OFDM 64 QAM	2580	Outer_Full	11.36	/	/	<=13	Pass
	2595	Outer_Full	11.30	/	/	<=13	Pass
	2610	Outer_Full	11.28	/	/	<=13	Pass
CP-OFDM 256 QAM	2580	Outer_Full	12.16	/	/	<=13	Pass
	2595	Outer_Full	12.06	/	/	<=13	Pass
	2610	Outer_Full	12.02	/	/	<=13	Pass

4.1.4 30k_SISO_25MHz_NTNV

5G NR n38 SCS=30kHz SISO 25MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2582.5	Outer_Full	9.86	/	/	<=13	Pass
	2595	Outer_Full	9.88	/	/	<=13	Pass

	2607.5	Outer Full	9.92	/	/	<=13	Pass
DFT-s-OFDM QPSK	2582.5	Outer Full	10.10	/	/	<=13	Pass
	2595	Outer Full	10.10	/	/	<=13	Pass
	2607.5	Outer Full	10.10	/	/	<=13	Pass
	2582.5	Outer Full	10.52	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	2595	Outer Full	10.50	/	/	<=13	Pass
	2607.5	Outer Full	10.50	/	/	<=13	Pass
	2582.5	Outer Full	10.60	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	2595	Outer Full	10.56	/	/	<=13	Pass
	2607.5	Outer Full	10.56	/	/	<=13	Pass
	2582.5	Outer Full	10.88	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	2595	Outer Full	10.84	/	/	<=13	Pass
	2607.5	Outer Full	10.82	/	/	<=13	Pass
	2582.5	Outer Full	11.18	/	/	<=13	Pass
CP-OFDM QPSK	2595	Outer Full	11.18	/	/	<=13	Pass
	2607.5	Outer Full	11.16	/	/	<=13	Pass
	2582.5	Outer Full	11.20	/	/	<=13	Pass
CP-OFDM 16 QAM	2595	Outer Full	11.18	/	/	<=13	Pass
	2607.5	Outer Full	11.18	/	/	<=13	Pass
	2582.5	Outer Full	11.32	/	/	<=13	Pass
CP-OFDM 64 QAM	2595	Outer Full	11.32	/	/	<=13	Pass
	2607.5	Outer Full	11.30	/	/	<=13	Pass
	2582.5	Outer Full	12.16	/	/	<=13	Pass
CP-OFDM 256 QAM	2595	Outer Full	12.06	/	/	<=13	Pass
	2607.5	Outer Full	11.96	/	/	<=13	Pass

4.1.5 30k_SISO_30MHz_NTNV

5G NR n38 SCS=30kHz SISO 30MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2585	Outer Full	9.92	/	/	<=13	Pass
	2595	Outer Full	9.94	/	/	<=13	Pass
	2605	Outer Full	9.92	/	/	<=13	Pass
DFT-s-OFDM QPSK	2585	Outer Full	10.20	/	/	<=13	Pass
	2595	Outer Full	10.20	/	/	<=13	Pass
	2605	Outer Full	10.22	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	2585	Outer Full	10.54	/	/	<=13	Pass
	2595	Outer Full	10.50	/	/	<=13	Pass
	2605	Outer Full	10.50	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	2585	Outer Full	10.60	/	/	<=13	Pass
	2595	Outer Full	10.58	/	/	<=13	Pass
	2605	Outer Full	10.58	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	2585	Outer Full	10.86	/	/	<=13	Pass
	2595	Outer Full	10.82	/	/	<=13	Pass
	2605	Outer Full	10.80	/	/	<=13	Pass
CP-OFDM QPSK	2585	Outer Full	11.16	/	/	<=13	Pass
	2595	Outer Full	11.14	/	/	<=13	Pass
	2605	Outer Full	11.12	/	/	<=13	Pass
CP-OFDM 16 QAM	2585	Outer Full	11.18	/	/	<=13	Pass
	2595	Outer Full	11.14	/	/	<=13	Pass
	2605	Outer Full	11.14	/	/	<=13	Pass
CP-OFDM 64 QAM	2585	Outer Full	11.28	/	/	<=13	Pass
	2595	Outer Full	11.24	/	/	<=13	Pass
	2605	Outer Full	11.22	/	/	<=13	Pass
CP-OFDM 256 QAM	2585	Outer Full	12.06	/	/	<=13	Pass
	2595	Outer Full	11.98	/	/	<=13	Pass

	2605	Outer_Full	11.94	/	/	<=13	Pass
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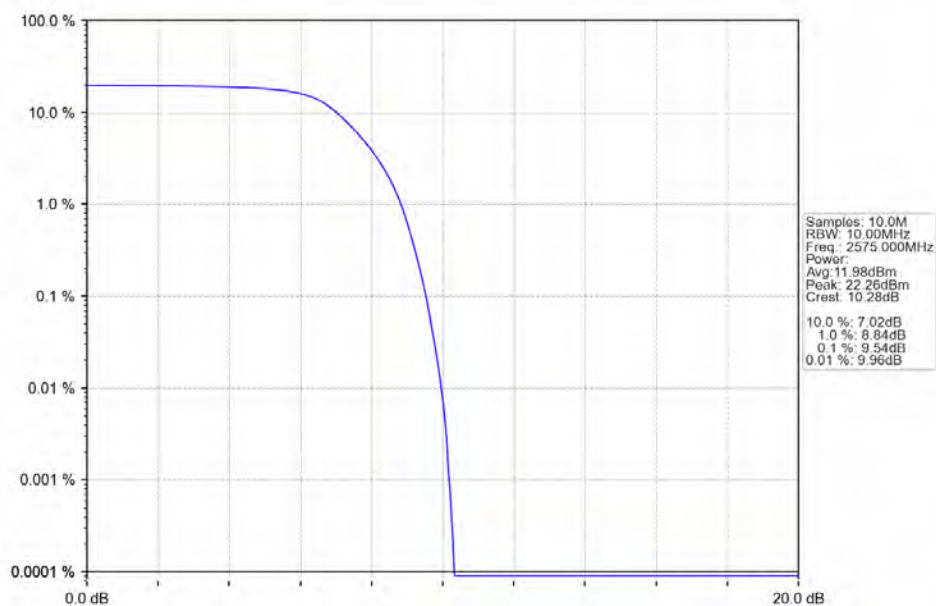
4.1.6 30k_SISO_40MHz_NTNV

5G NR n38 SCS=30kHz SISO 40MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2590	Outer_Full	9.78	/	/	<=13	Pass
	2595	Outer_Full	9.78	/	/	<=13	Pass
	2600	Outer_Full	9.80	/	/	<=13	Pass
DFT-s-OFDM QPSK	2590	Outer_Full	10.58	/	/	<=13	Pass
	2595	Outer_Full	10.56	/	/	<=13	Pass
	2600	Outer_Full	10.56	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	2590	Outer_Full	10.98	/	/	<=13	Pass
	2595	Outer_Full	10.96	/	/	<=13	Pass
	2600	Outer_Full	10.96	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	2590	Outer_Full	11.04	/	/	<=13	Pass
	2595	Outer_Full	11.04	/	/	<=13	Pass
	2600	Outer_Full	11.04	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	2590	Outer_Full	11.30	/	/	<=13	Pass
	2595	Outer_Full	11.28	/	/	<=13	Pass
	2600	Outer_Full	11.26	/	/	<=13	Pass
CP-OFDM QPSK	2590	Outer_Full	11.70	/	/	<=13	Pass
	2595	Outer_Full	11.70	/	/	<=13	Pass
	2600	Outer_Full	11.70	/	/	<=13	Pass
CP-OFDM 16 QAM	2590	Outer_Full	11.72	/	/	<=13	Pass
	2595	Outer_Full	11.70	/	/	<=13	Pass
	2600	Outer_Full	11.70	/	/	<=13	Pass
CP-OFDM 64 QAM	2590	Outer_Full	11.80	/	/	<=13	Pass
	2595	Outer_Full	11.80	/	/	<=13	Pass
	2600	Outer_Full	11.80	/	/	<=13	Pass
CP-OFDM 256 QAM	2590	Outer_Full	12.46	/	/	<=13	Pass
	2595	Outer_Full	12.46	/	/	<=13	Pass
	2600	Outer_Full	12.44	/	/	<=13	Pass

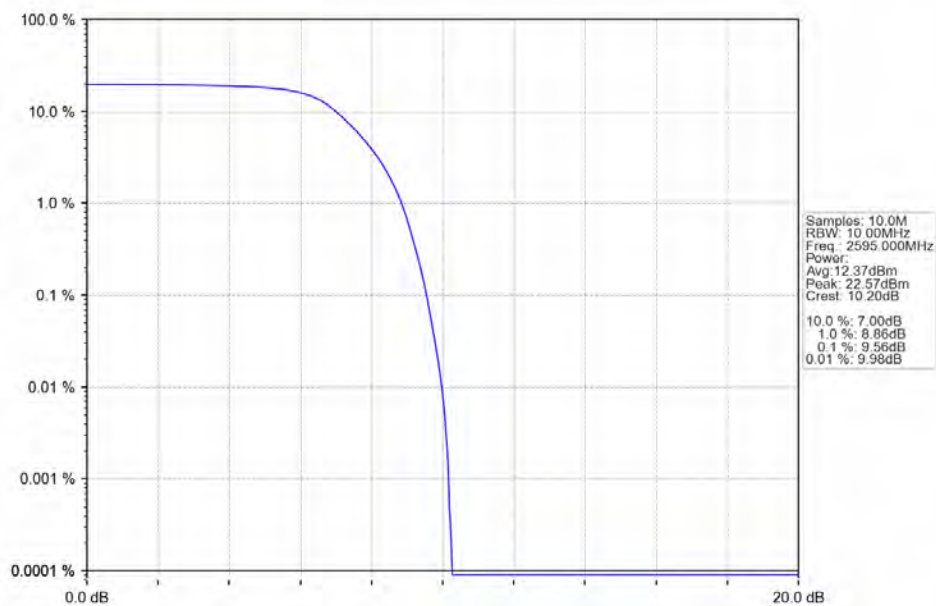
4.2 Test Graph

4.2.1 30k_SISO_10MHz_NTNV

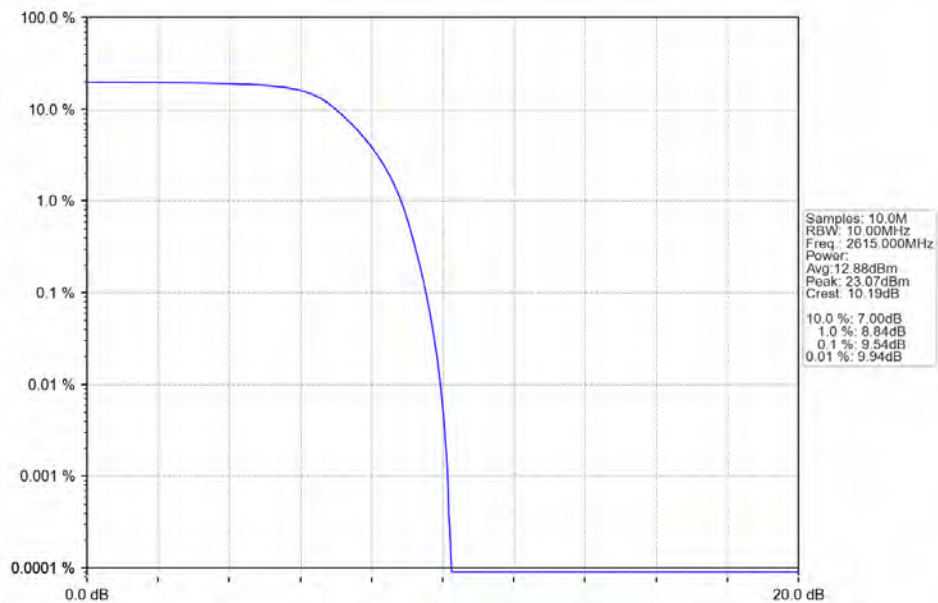
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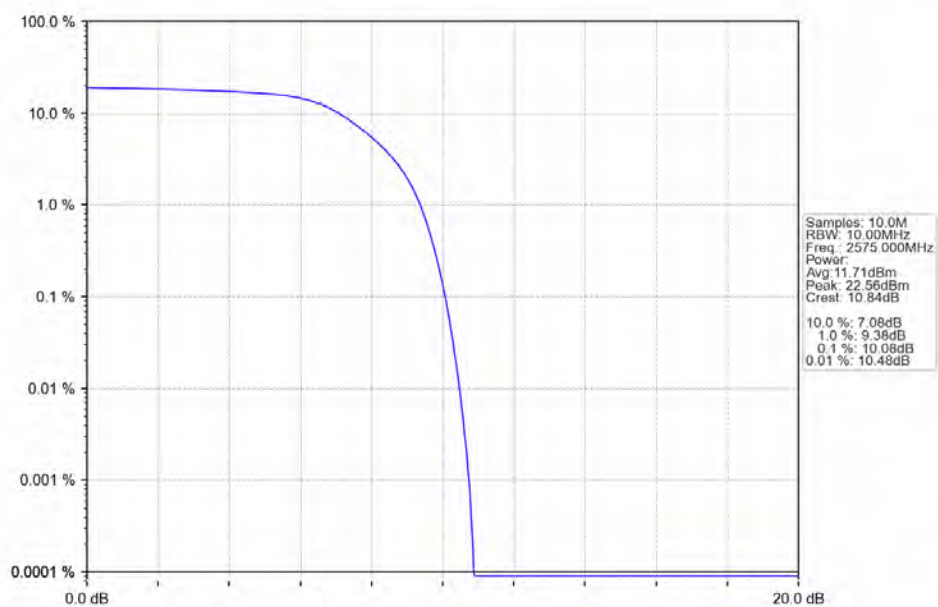
n38_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_PI/2_BPSK_2595MHz_Outer_Full_Ant1



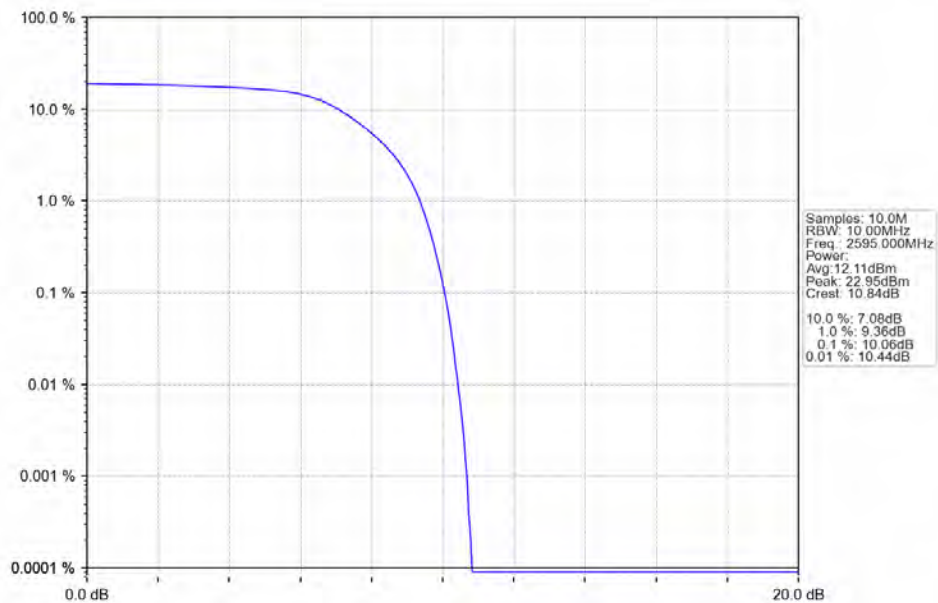
n38 30kHz SISO NTN 10MHz DFT-s-OFDM PI/2 BPSK 2615MHz Outer Full Ant1



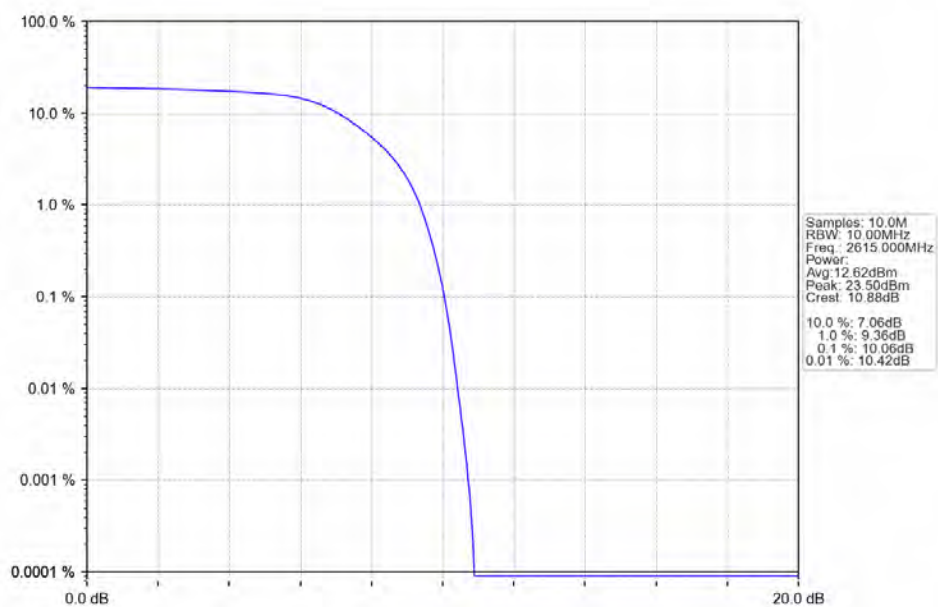
n38 30kHz SISO NTN 10MHz DFT-s-OFDM QPSK 2575MHz Outer Full Ant1



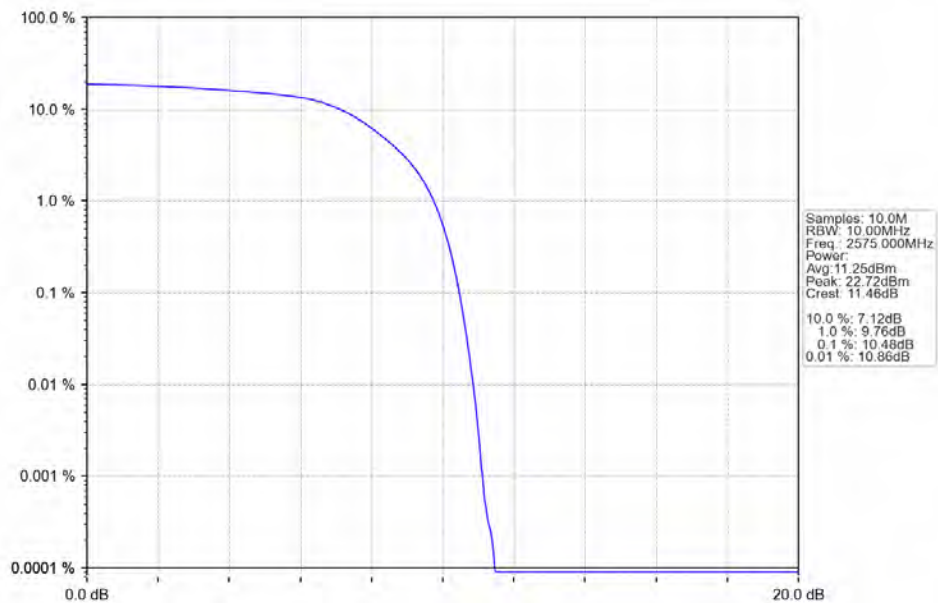
n38 30kHz SISO NTN 10MHz DFT-s-OFDM QPSK 2595MHz Outer Full Ant1



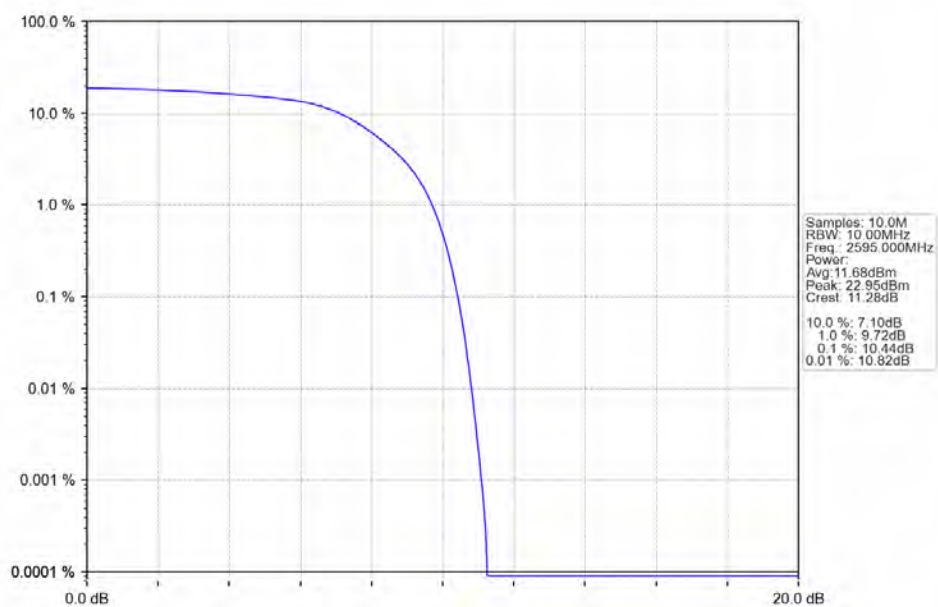
n38 30kHz SISO NTN 10MHz DFT-s-OFDM QPSK 2615MHz Outer Full Ant1



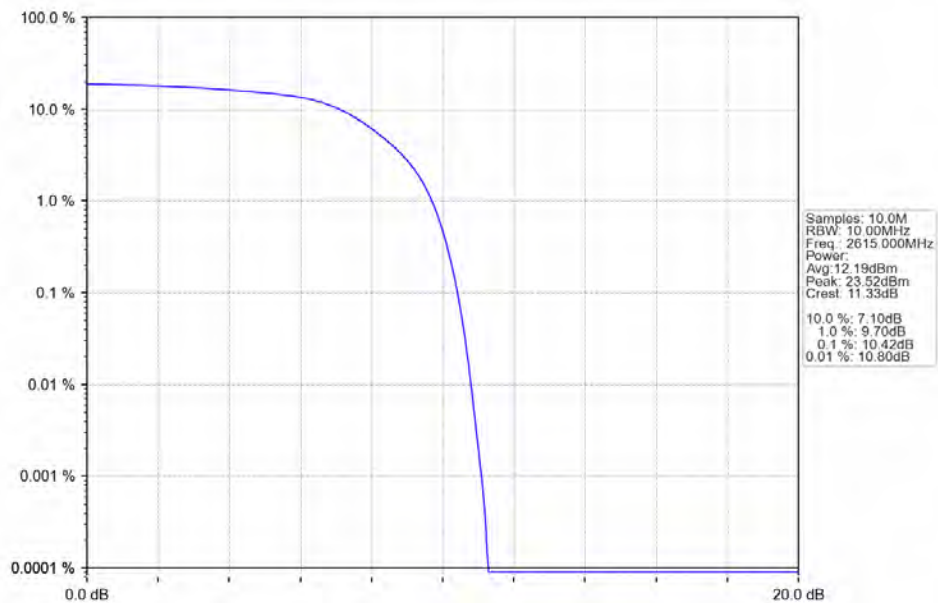
n38 30kHz SISO NTN 10MHz DFT-s-OFDM 16 QAM 2575MHz Outer Full Ant1



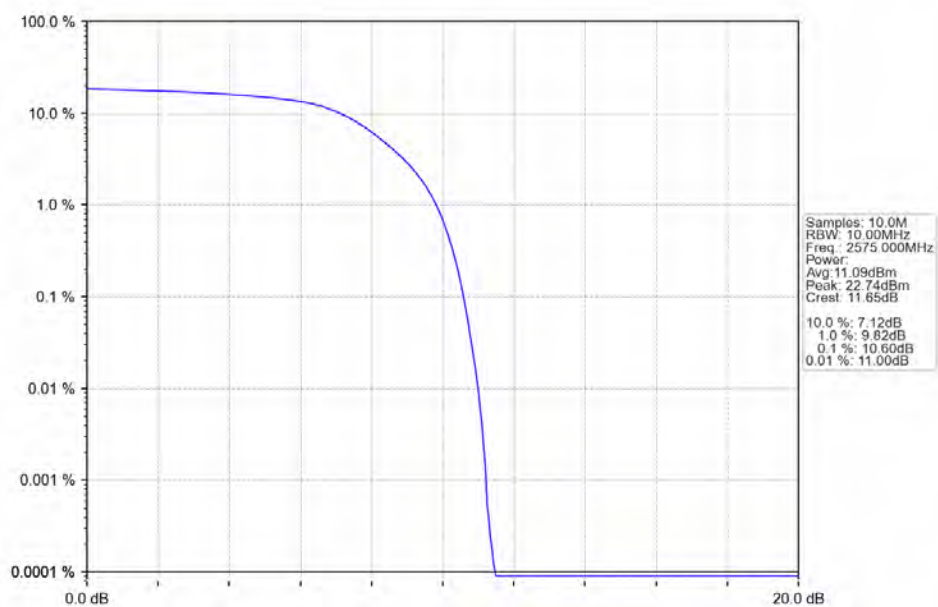
n38 30kHz SISO NTN 10MHz DFT-s-OFDM 16 QAM 2595MHz Outer Full Ant1



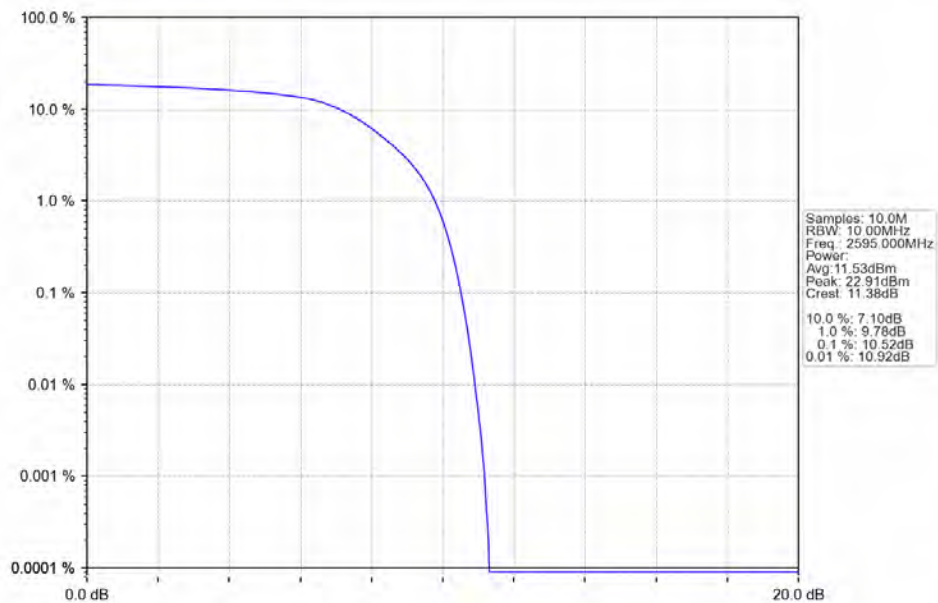
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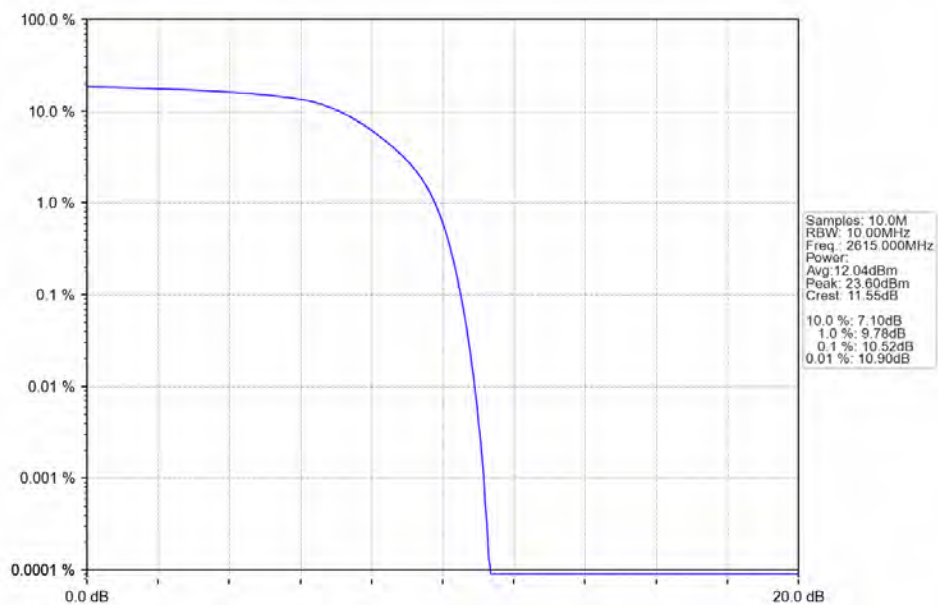
n38 30kHz SISO NTN 10MHz DFT-s-OFDM 64 QAM 2575MHz Outer Full Ant1



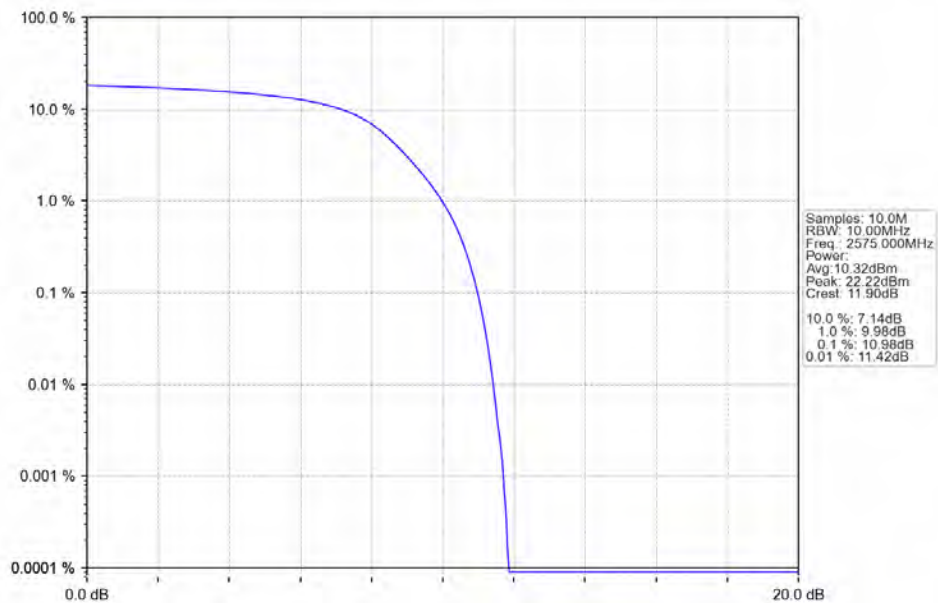
n38 30kHz SISO NTN 10MHz DFT-s-OFDM 64 QAM 2595MHz Outer Full Ant1



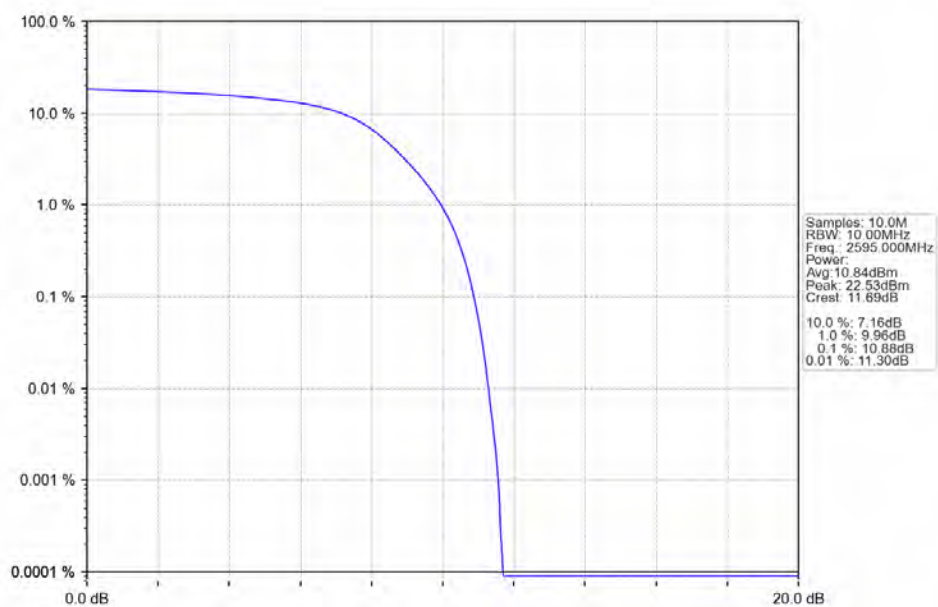
n38 30kHz SISO NTN 10MHz DFT-s-OFDM 64 QAM 2615MHz Outer Full Ant1



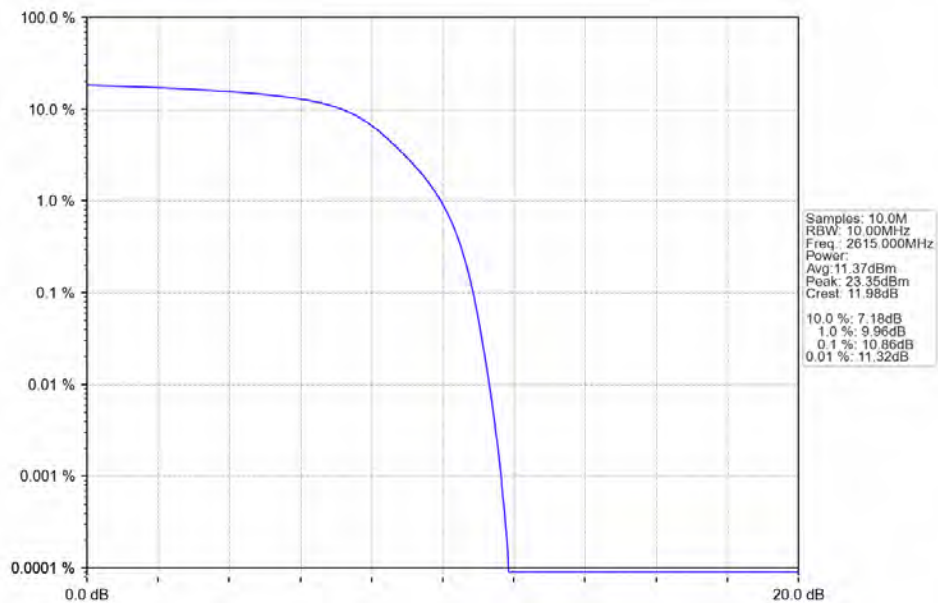
n38 30kHz SISO NTN 10MHz DFT-s-OFDM 256 QAM 2575MHz Outer Full Ant1



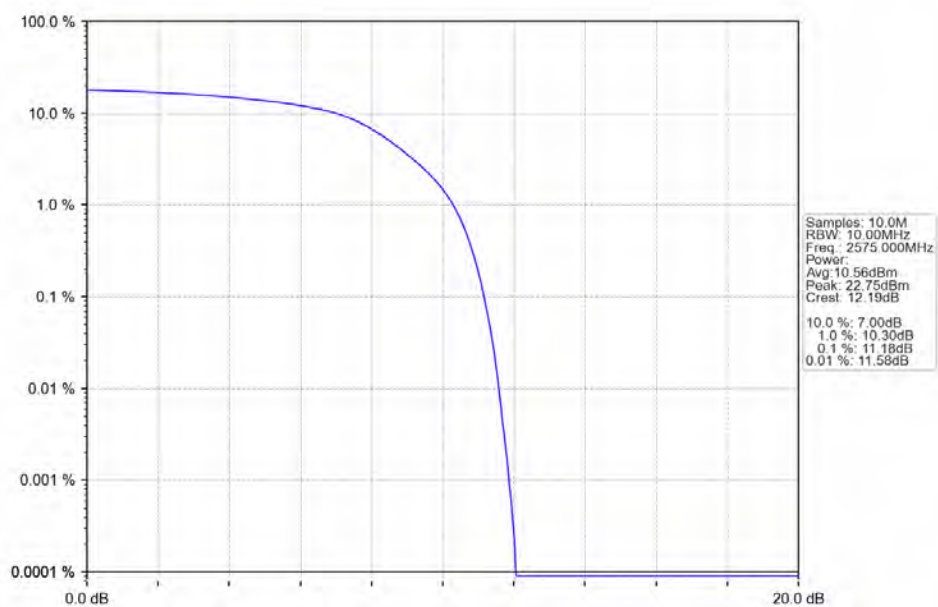
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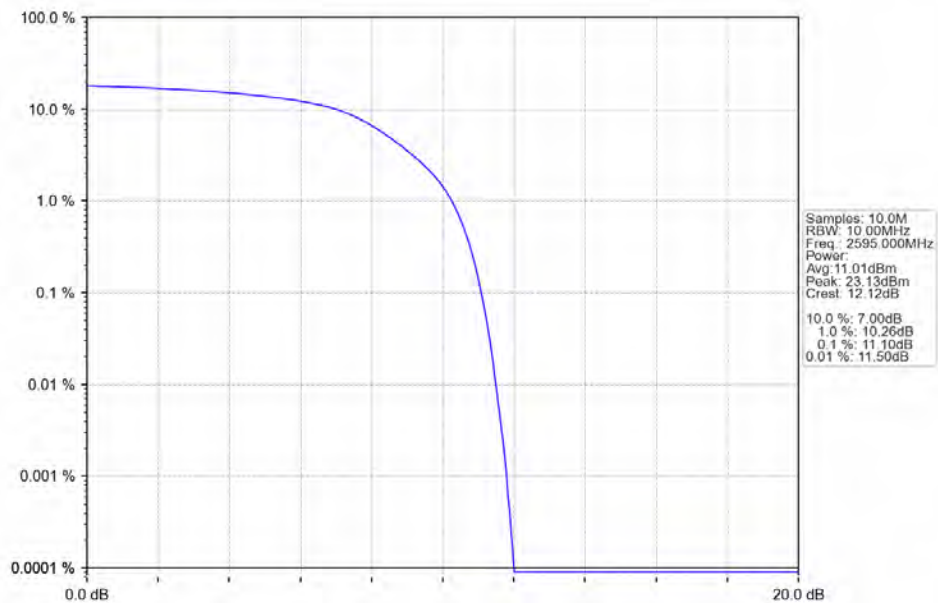
n38 30kHz SISO NTN 10MHz DFT-s-OFDM 256 QAM 2615MHz Outer Full Ant1



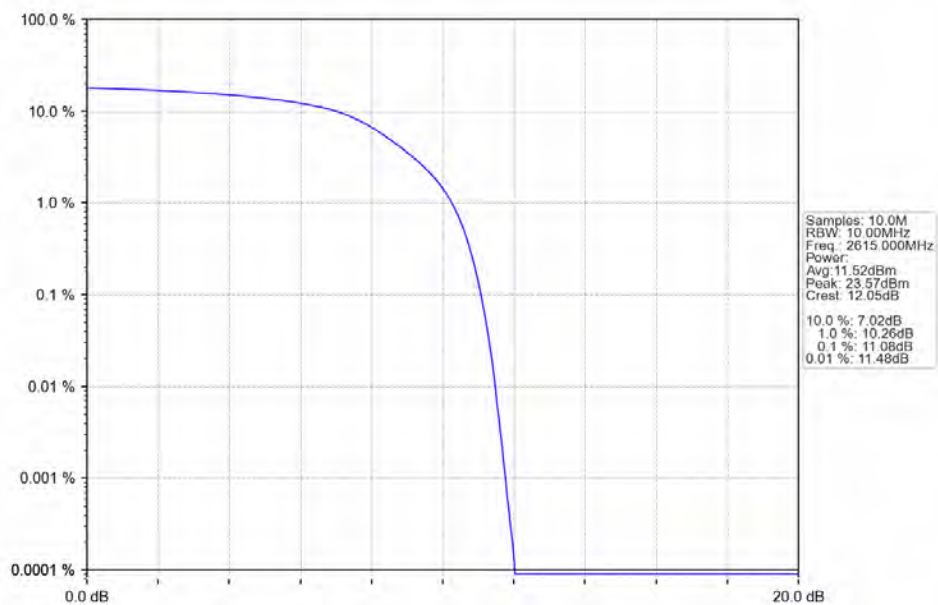
n38 30kHz SISO NTN 10MHz CP-OFDM QPSK 2575MHz Outer Full Ant1



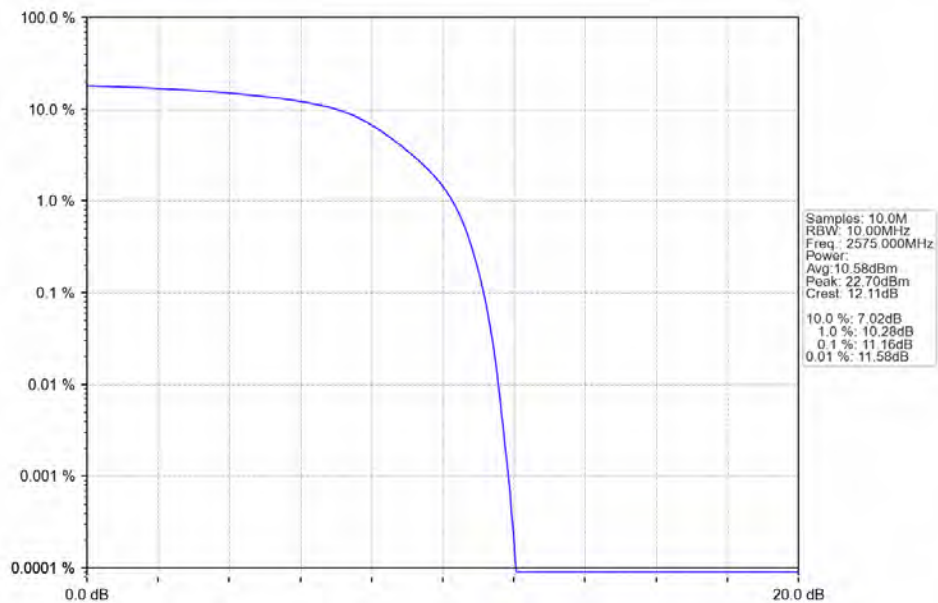
n38 30kHz SISO NTN 10MHz CP-OFDM QPSK 2595MHz Outer Full Ant1



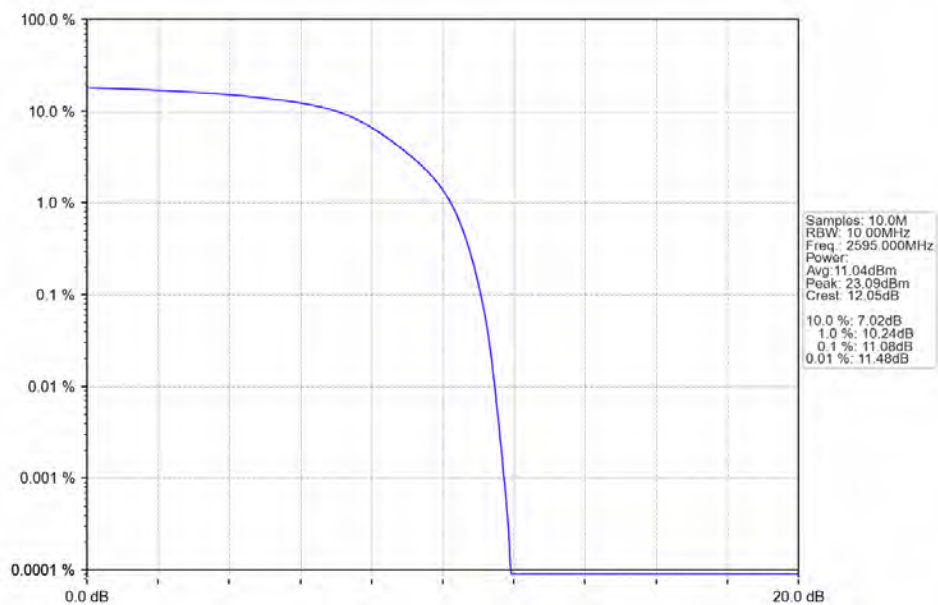
n38 30kHz SISO NTN 10MHz CP-OFDM QPSK 2615MHz Outer Full Ant1



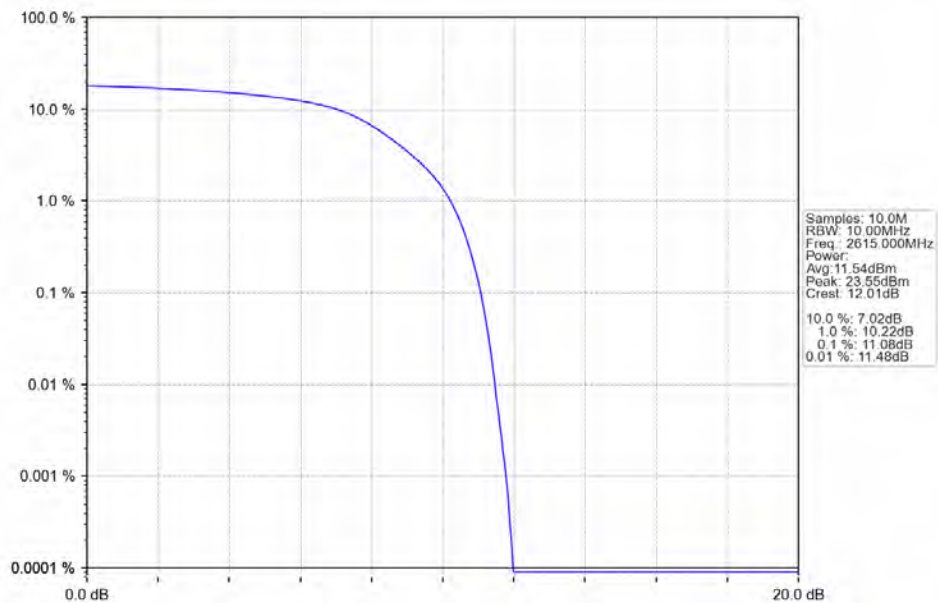
n38 30kHz SISO NTN 10MHz CP-OFDM 16 QAM 2575MHz Outer Full Ant1



n38 30kHz SISO NTN 10MHz CP-OFDM 16 QAM 2595MHz Outer Full Ant1



n38 30kHz SISO NTN 10MHz CP-OFDM 16 QAM 2615MHz Outer Full Ant1



n38 30kHz SISO NTN 10MHz CP-OFDM 64 QAM 2575MHz Outer Full Ant1

