

Report No.: SUCR240400011301
Rev.: 01
Page: 1 of 148

Appendix B.16

LTE Band 38



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Report No.: SUCR240400011301
 Rev.: 01
 Page: 2 of 148

1. Effective (Isotropic) Radiated Power Output Data

1.1 B38_5MHz_EIRP (NPANT002)

1.1.1 Test Result

Band: 38 / Bandwidth: 5MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2572.5	1	0	23.13	3.07	26.20	<=33.00	Pass
			13	23.12	3.07	26.19	<=33.00	Pass
			24	23.12	3.07	26.19	<=33.00	Pass
		12	0	22.12	3.07	25.19	<=33.00	Pass
			6	22.24	3.07	25.31	<=33.00	Pass
			13	22.24	3.07	25.31	<=33.00	Pass
		25	0	22.21	3.07	25.28	<=33.00	Pass
	2595	1	0	23.26	3.07	26.33	<=33.00	Pass
			13	23.48	3.07	26.55	<=33.00	Pass
			24	23.38	3.07	26.45	<=33.00	Pass
		12	0	22.36	3.07	25.43	<=33.00	Pass
			6	22.38	3.07	25.45	<=33.00	Pass
			13	22.39	3.07	25.46	<=33.00	Pass
		25	0	22.38	3.07	25.45	<=33.00	Pass
	2617.5	1	0	23.19	3.07	26.26	<=33.00	Pass
			13	23.30	3.07	26.37	<=33.00	Pass
			24	23.24	3.07	26.31	<=33.00	Pass
		12	0	22.18	3.07	25.25	<=33.00	Pass
			6	22.27	3.07	25.34	<=33.00	Pass
			13	22.19	3.07	25.26	<=33.00	Pass
		25	0	22.19	3.07	25.26	<=33.00	Pass
16QAM	2572.5	1	0	22.20	3.07	25.27	<=33.00	Pass
			13	22.27	3.07	25.34	<=33.00	Pass
			24	22.19	3.07	25.26	<=33.00	Pass
		12	0	21.19	3.07	24.26	<=33.00	Pass
			6	21.23	3.07	24.30	<=33.00	Pass
			13	21.25	3.07	24.32	<=33.00	Pass
		25	0	21.16	3.07	24.23	<=33.00	Pass
	2595	1	0	22.37	3.07	25.44	<=33.00	Pass
			13	22.37	3.07	25.44	<=33.00	Pass
			24	22.29	3.07	25.36	<=33.00	Pass
		12	0	21.36	3.07	24.43	<=33.00	Pass
			6	21.40	3.07	24.47	<=33.00	Pass
			13	21.21	3.07	24.28	<=33.00	Pass
		25	0	21.33	3.07	24.40	<=33.00	Pass
	2617.5	1	0	22.24	3.07	25.31	<=33.00	Pass
			13	22.06	3.07	25.13	<=33.00	Pass
			24	22.35	3.07	25.42	<=33.00	Pass
		12	0	21.30	3.07	24.37	<=33.00	Pass
			6	21.23	3.07	24.30	<=33.00	Pass



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Report No.: SUCR240400011301

Rev.: 01

Page: 3 of 148

			13	21.33	3.07	24.40	<=33.00	Pass
		25	0	21.17	3.07	24.24	<=33.00	Pass
Note1: EIRP=Conducted Power+Antenna Gain								



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1.2 B38_10MHz_EIRP

1.2.1 Test Result

Band: 38 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2575	1	0	23.21	3.07	26.28	<=33.00	Pass
			25	23.11	3.07	26.18	<=33.00	Pass
			49	23.14	3.07	26.21	<=33.00	Pass
		25	0	22.22	3.07	25.29	<=33.00	Pass
			13	22.16	3.07	25.23	<=33.00	Pass
			25	22.14	3.07	25.21	<=33.00	Pass
		50	0	22.20	3.07	25.27	<=33.00	Pass
	2595	1	0	23.29	3.07	26.36	<=33.00	Pass
			25	23.31	3.07	26.38	<=33.00	Pass
			49	23.32	3.07	26.39	<=33.00	Pass
		25	0	22.31	3.07	25.38	<=33.00	Pass
			13	22.31	3.07	25.38	<=33.00	Pass
			25	22.39	3.07	25.46	<=33.00	Pass
		50	0	22.35	3.07	25.42	<=33.00	Pass
	2615	1	0	23.26	3.07	26.33	<=33.00	Pass
			25	23.12	3.07	26.19	<=33.00	Pass
			49	23.13	3.07	26.20	<=33.00	Pass
		25	0	22.20	3.07	25.27	<=33.00	Pass
			13	22.26	3.07	25.33	<=33.00	Pass
			25	22.27	3.07	25.34	<=33.00	Pass
		50	0	22.16	3.07	25.23	<=33.00	Pass
16QAM	2575	1	0	22.25	3.07	25.32	<=33.00	Pass
			25	22.21	3.07	25.28	<=33.00	Pass
			49	22.28	3.07	25.35	<=33.00	Pass
		25	0	21.18	3.07	24.25	<=33.00	Pass
			13	21.19	3.07	24.26	<=33.00	Pass
			25	21.20	3.07	24.27	<=33.00	Pass
		50	0	21.20	3.07	24.27	<=33.00	Pass
	2595	1	0	22.19	3.07	25.26	<=33.00	Pass
			25	22.17	3.07	25.24	<=33.00	Pass
			49	22.18	3.07	25.25	<=33.00	Pass
		25	0	21.28	3.07	24.35	<=33.00	Pass
			13	21.35	3.07	24.42	<=33.00	Pass
			25	21.43	3.07	24.50	<=33.00	Pass
		50	0	21.30	3.07	24.37	<=33.00	Pass
	2615	1	0	22.16	3.07	25.23	<=33.00	Pass
			25	22.15	3.07	25.22	<=33.00	Pass
			49	21.86	3.07	24.93	<=33.00	Pass
		25	0	21.28	3.07	24.35	<=33.00	Pass
			13	21.17	3.07	24.24	<=33.00	Pass
			25	21.29	3.07	24.36	<=33.00	Pass
		50	0	21.13	3.07	24.20	<=33.00	Pass



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Report No.: SUCR240400011301

Rev.: 01

Page: 5 of 148

Note1: EIRP=Conducted Power+Antenna Gain



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1.3 B38_15MHz_EIRP

1.3.1 Test Result

Band: 38 / Bandwidth: 15MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2577.5	1	0	23.19	3.07	26.26	<=33.00	Pass
			38	23.11	3.07	26.18	<=33.00	Pass
			74	23.32	3.07	26.39	<=33.00	Pass
		36	0	22.10	3.07	25.17	<=33.00	Pass
			18	22.16	3.07	25.23	<=33.00	Pass
			39	22.19	3.07	25.26	<=33.00	Pass
		75	0	22.32	3.07	25.39	<=33.00	Pass
	2595	1	0	23.31	3.07	26.38	<=33.00	Pass
			38	23.27	3.07	26.34	<=33.00	Pass
			74	23.31	3.07	26.38	<=33.00	Pass
		36	0	22.32	3.07	25.39	<=33.00	Pass
			18	22.25	3.07	25.32	<=33.00	Pass
			39	22.30	3.07	25.37	<=33.00	Pass
		75	0	22.26	3.07	25.33	<=33.00	Pass
	2612.5	1	0	23.28	3.07	26.35	<=33.00	Pass
			38	23.16	3.07	26.23	<=33.00	Pass
			74	23.25	3.07	26.32	<=33.00	Pass
		36	0	22.31	3.07	25.38	<=33.00	Pass
			18	22.20	3.07	25.27	<=33.00	Pass
			39	22.15	3.07	25.22	<=33.00	Pass
		75	0	22.39	3.07	25.46	<=33.00	Pass
16QAM	2577.5	1	0	22.26	3.07	25.33	<=33.00	Pass
			38	22.22	3.07	25.29	<=33.00	Pass
			74	22.16	3.07	25.23	<=33.00	Pass
		36	0	21.19	3.07	24.26	<=33.00	Pass
			18	21.26	3.07	24.33	<=33.00	Pass
			39	21.35	3.07	24.42	<=33.00	Pass
		75	0	21.26	3.07	24.33	<=33.00	Pass
	2595	1	0	22.21	3.07	25.28	<=33.00	Pass
			38	22.17	3.07	25.24	<=33.00	Pass
			74	22.23	3.07	25.30	<=33.00	Pass
		36	0	21.39	3.07	24.46	<=33.00	Pass
			18	21.30	3.07	24.37	<=33.00	Pass
			39	21.31	3.07	24.38	<=33.00	Pass
		75	0	21.26	3.07	24.33	<=33.00	Pass
	2612.5	1	0	22.74	3.07	25.81	<=33.00	Pass
			38	22.33	3.07	25.40	<=33.00	Pass
			74	22.57	3.07	25.64	<=33.00	Pass
		36	0	21.37	3.07	24.44	<=33.00	Pass
			18	21.31	3.07	24.38	<=33.00	Pass
			39	21.19	3.07	24.26	<=33.00	Pass
		75	0	21.30	3.07	24.37	<=33.00	Pass



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Report No.: SUCR240400011301

Rev.: 01

Page: 7 of 148

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1.4 B38_20MHz_EIRP

1.4.1 Test Result

Band: 38 / Bandwidth: 20MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2580	1	0	23.17	3.07	26.24	<=33.00	Pass
			50	23.26	3.07	26.33	<=33.00	Pass
			99	23.27	3.07	26.34	<=33.00	Pass
		50	0	22.17	3.07	25.24	<=33.00	Pass
			25	22.36	3.07	25.43	<=33.00	Pass
			50	22.32	3.07	25.39	<=33.00	Pass
		100	0	22.36	3.07	25.43	<=33.00	Pass
	2595	1	0	23.23	3.07	26.30	<=33.00	Pass
			50	23.30	3.07	26.37	<=33.00	Pass
			99	23.17	3.07	26.24	<=33.00	Pass
		50	0	22.39	3.07	25.46	<=33.00	Pass
			25	22.30	3.07	25.37	<=33.00	Pass
			50	22.37	3.07	25.44	<=33.00	Pass
		100	0	22.35	3.07	25.42	<=33.00	Pass
	2610	1	0	23.26	3.07	26.33	<=33.00	Pass
			50	23.14	3.07	26.21	<=33.00	Pass
			99	23.10	3.07	26.17	<=33.00	Pass
		50	0	22.34	3.07	25.41	<=33.00	Pass
			25	22.32	3.07	25.39	<=33.00	Pass
			50	22.27	3.07	25.34	<=33.00	Pass
		100	0	22.31	3.07	25.38	<=33.00	Pass
16QAM	2580	1	0	22.28	3.07	25.35	<=33.00	Pass
			50	22.12	3.07	25.19	<=33.00	Pass
			99	22.60	3.07	25.67	<=33.00	Pass
		50	0	21.20	3.07	24.27	<=33.00	Pass
			25	21.31	3.07	24.38	<=33.00	Pass
			50	21.28	3.07	24.35	<=33.00	Pass
		100	0	21.37	3.07	24.44	<=33.00	Pass
	2595	1	0	22.05	3.07	25.12	<=33.00	Pass
			50	22.49	3.07	25.56	<=33.00	Pass
			99	22.17	3.07	25.24	<=33.00	Pass
		50	0	21.46	3.07	24.53	<=33.00	Pass
			25	21.46	3.07	24.53	<=33.00	Pass
			50	21.27	3.07	24.34	<=33.00	Pass
		100	0	21.30	3.07	24.37	<=33.00	Pass
	2610	1	0	22.42	3.07	25.49	<=33.00	Pass
			50	21.79	3.07	24.86	<=33.00	Pass
			99	21.76	3.07	24.83	<=33.00	Pass
		50	0	21.33	3.07	24.40	<=33.00	Pass
			25	21.34	3.07	24.41	<=33.00	Pass
			50	21.27	3.07	24.34	<=33.00	Pass
		100	0	21.38	3.07	24.45	<=33.00	Pass



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Report No.: SUCR240400011301

Rev.: 01

Page: 9 of 148

Note1: EIRP=Conducted Power+Antenna Gain



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Report No.: SUCR240400011301

Rev.: 01

Page: 10 of 148

2. Frequency Stability

2.4 B38_20MHz

2.4.1 Test Result

Band: 38 / Bandwidth: 20MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2580	100	0	20	3.135	3.562	0.0014	/	Pass
					3.7	-0.337	-0.0001	/	Pass
					4.4	-2.525	-0.0010	/	Pass
				-30	3.7	3.025	0.0012	/	Pass
					3.7	5.511	0.0021	/	Pass
					3.7	-1.463	-0.0006	/	Pass
				0	3.7	1.430	0.0006	/	Pass
					3.7	-0.303	-0.0001	/	Pass
					3.7	3.003	0.0012	/	Pass
				40	3.7	-4.845	-0.0019	/	Pass
					3.7	-4.614	-0.0018	/	Pass
					3.7	3.755	0.0014	/	Pass
	2595	100	0	20	3.135	2.446	0.0009	/	Pass
					3.7	3.542	0.0014	/	Pass
					4.4	-0.181	-0.0001	/	Pass
				-30	3.7	6.271	0.0024	/	Pass
					3.7	-2.737	-0.0011	/	Pass
					3.7	7.677	0.0030	/	Pass
				0	3.7	-3.651	-0.0014	/	Pass
					3.7	0.480	0.0002	/	Pass
					3.7	4.110	0.0016	/	Pass
				40	3.7	-4.066	-0.0016	/	Pass
					3.7	2.936	0.0011	/	Pass
					3.7	3.755	0.0014	/	Pass
	2610	100	0	20	3.135	0.640	0.0002	/	Pass
					3.7	-3.218	-0.0012	/	Pass
					4.4	-8.378	-0.0032	/	Pass
				-30	3.7	4.400	0.0017	/	Pass
					3.7	-2.227	-0.0009	/	Pass
					3.7	5.063	0.0019	/	Pass
				0	3.7	-0.720	-0.0003	/	Pass
					3.7	-4.100	-0.0016	/	Pass
					3.7	-6.235	-0.0024	/	Pass
				40	3.7	6.851	0.0026	/	Pass
					3.7	3.755	0.0014	/	Pass
					3.7	5.116	0.0020	/	Pass
16QAM	2580	100	0	20	3.135	1.510	0.0006	/	Pass
					3.7	-4.266	-0.0017	/	Pass
					4.4	-4.484	-0.0017	/	Pass
				-30	3.7	4.075	0.0016	/	Pass
					3.7	0.471	0.0002	/	Pass
					3.7	4.178	0.0016	/	Pass



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Report No.: SUCR240400011301

Rev.: 01

Page: 11 of 148

				10	3.7	-2.951	-0.0011	/	Pass
				30	3.7	-2.276	-0.0009	/	Pass
				40	3.7	-3.848	-0.0015	/	Pass
				50	3.7	2.294	0.0009	/	Pass
	2595	100	0	20	3.135	2.017	0.0008	/	Pass
					3.7	-2.359	-0.0009	/	Pass
					4.4	6.866	0.0026	/	Pass
				-30	3.7	-3.587	-0.0014	/	Pass
				-20	3.7	5.483	0.0021	/	Pass
				-10	3.7	4.609	0.0018	/	Pass
				0	3.7	-0.023	0.0000	/	Pass
				10	3.7	-6.192	-0.0024	/	Pass
				30	3.7	-3.663	-0.0014	/	Pass
				40	3.7	-5.556	-0.0021	/	Pass
				50	3.7	-3.136	-0.0012	/	Pass
	2610	100	0	20	3.135	-4.692	-0.0018	/	Pass
					3.7	3.166	0.0012	/	Pass
					4.4	8.851	0.0034	/	Pass
				-30	3.7	-1.815	-0.0007	/	Pass
				-20	3.7	-1.102	-0.0004	/	Pass
				-10	3.7	-2.485	-0.0010	/	Pass
				0	3.7	-4.048	-0.0016	/	Pass
				10	3.7	-3.038	-0.0012	/	Pass
				30	3.7	2.190	0.0008	/	Pass
				40	3.7	0.741	0.0003	/	Pass
				50	3.7	6.327	0.0024	/	Pass



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Report No.: SUCR240400011301

Rev.: 01

Page: 12 of 148

3. 99% & 26dB Bandwidth

3.1 Band38_OBW

3.1.1 Test Result

Band: 38 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2572.5	25	0	4.557	/	Pass
		2595	25	0	4.548	/	Pass
		2617.5	25	0	4.558	/	Pass
	16QAM	2572.5	25	0	4.557	/	Pass
		2595	25	0	4.550	/	Pass
		2617.5	25	0	4.537	/	Pass
10	QPSK	2575	50	0	9.069	/	Pass
		2595	50	0	9.054	/	Pass
		2615	50	0	9.030	/	Pass
	16QAM	2575	50	0	9.042	/	Pass
		2595	50	0	9.035	/	Pass
		2615	50	0	9.020	/	Pass
15	QPSK	2577.5	75	0	13.573	/	Pass
		2595	75	0	13.545	/	Pass
		2612.5	75	0	13.539	/	Pass
	16QAM	2577.5	75	0	13.602	/	Pass
		2595	75	0	13.549	/	Pass
		2612.5	75	0	13.553	/	Pass
20	QPSK	2580	100	0	18.091	/	Pass
		2595	100	0	18.069	/	Pass
		2610	100	0	18.102	/	Pass
	16QAM	2580	100	0	18.078	/	Pass
		2595	100	0	18.054	/	Pass
		2610	100	0	18.070	/	Pass



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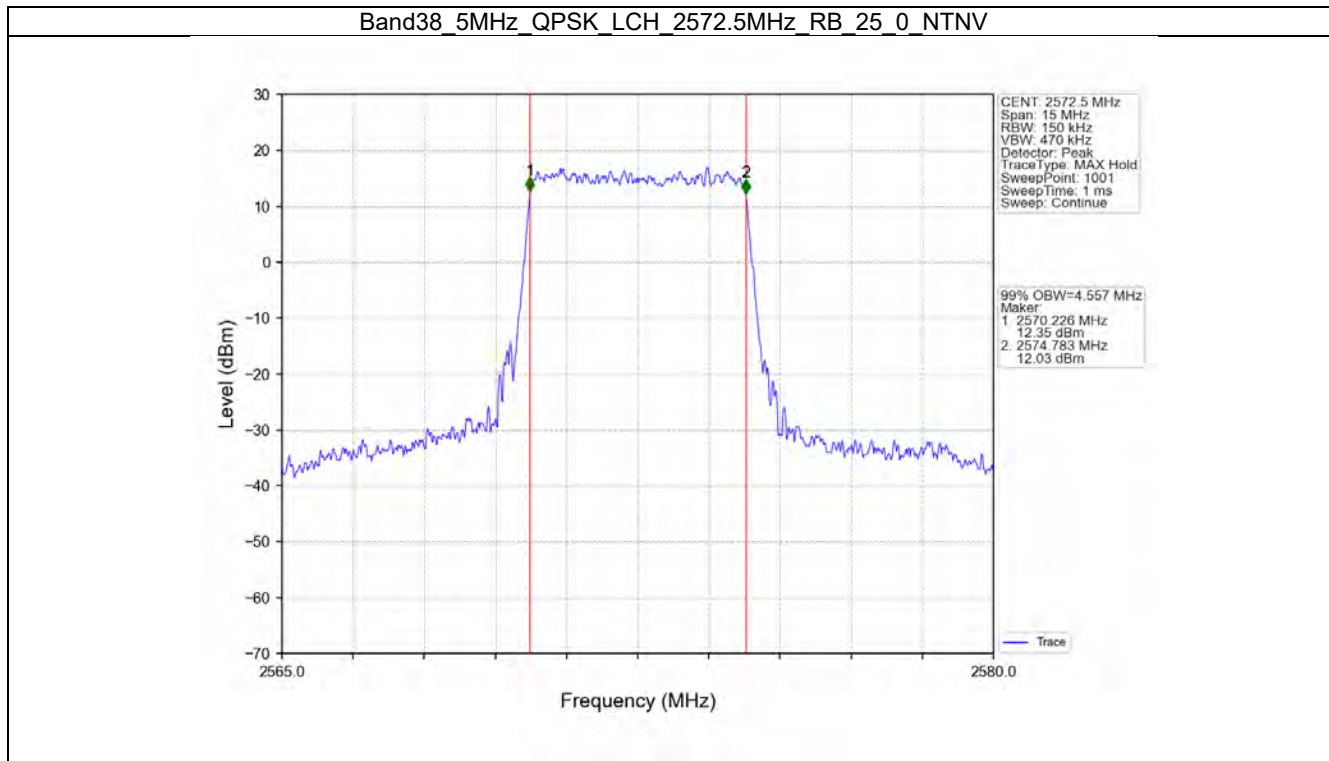
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Rev.: 01

Page: 13 of 148

3.1.2 Test Graph



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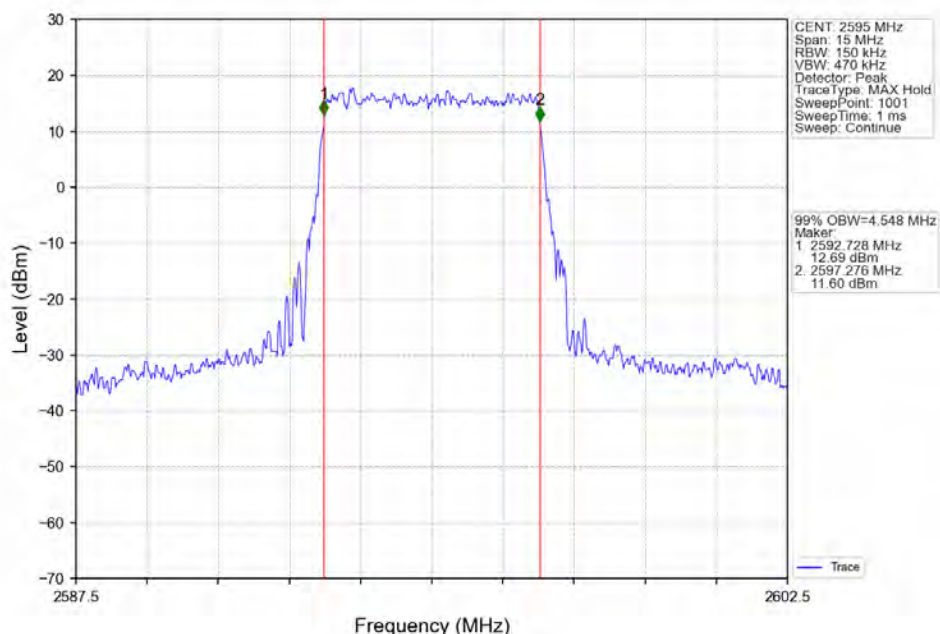
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Band38_5MHz_QPSK_MCH_2595MHz_RB_25_0_NTNV



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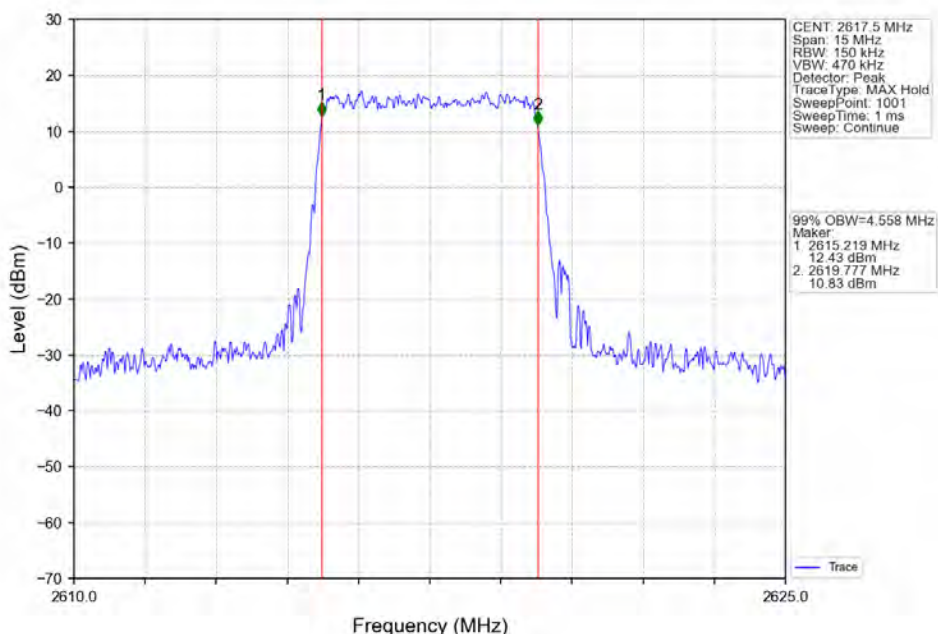
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Report No.: SUCR240400011301

Rev.: 01

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Band38_5MHz_QPSK_HCH_2617.5MHz_RB_25_0_NTNV



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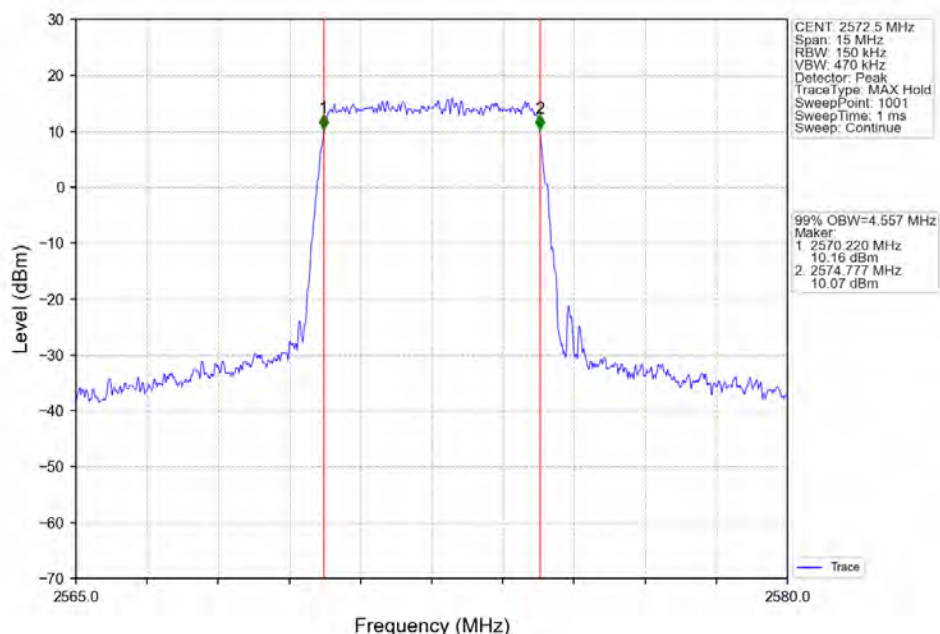
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Report No.: SUCR240400011301

Rev.: 01

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Band38_5MHz_16QAM_LCH_2572.5MHz_RB_25_0_NTNV



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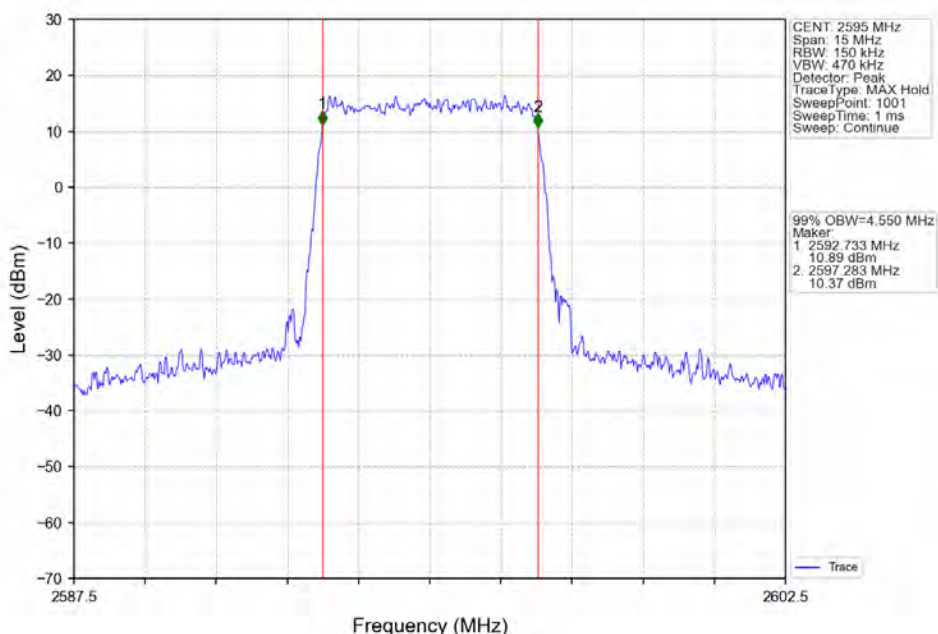
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Report No.: SUCR240400011301

Rev.: 01

Page: 17 of 148

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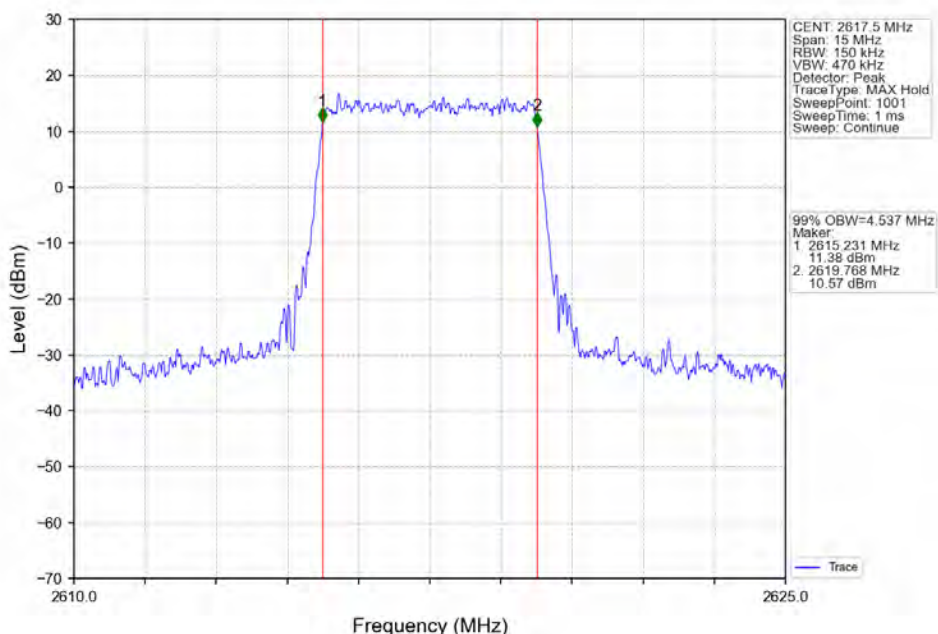
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Report No.: SUCR240400011301

Rev.: 01

Page: 18 of 148

Band38_5MHz_16QAM_HCH_2617.5MHz_RB_25_0_NTNV



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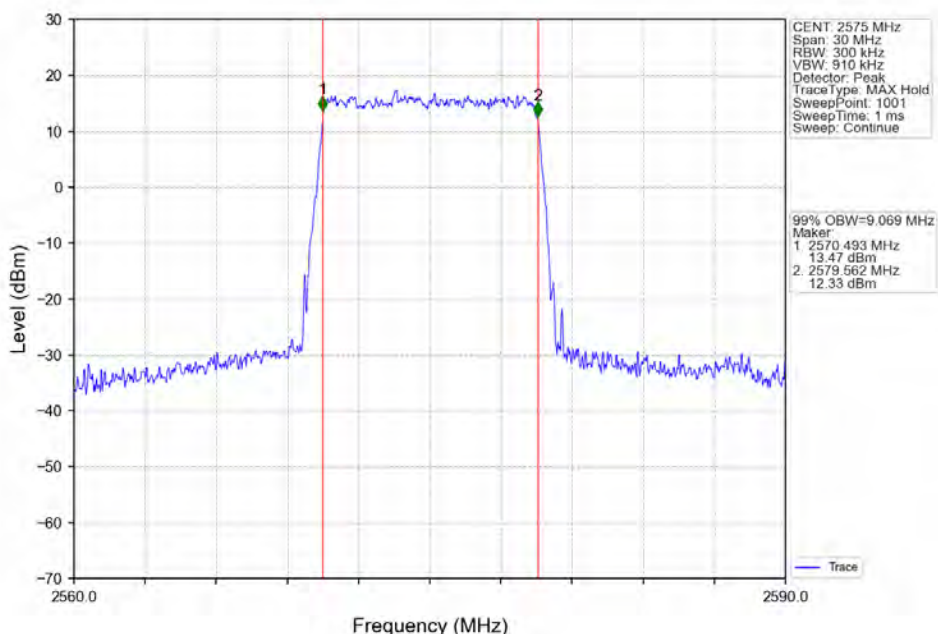
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Report No.: SUCR240400011301

Rev.: 01

Page: 19 of 148

Band38_10MHz_QPSK_LCH_2575MHz_RB_50_0_NTNV



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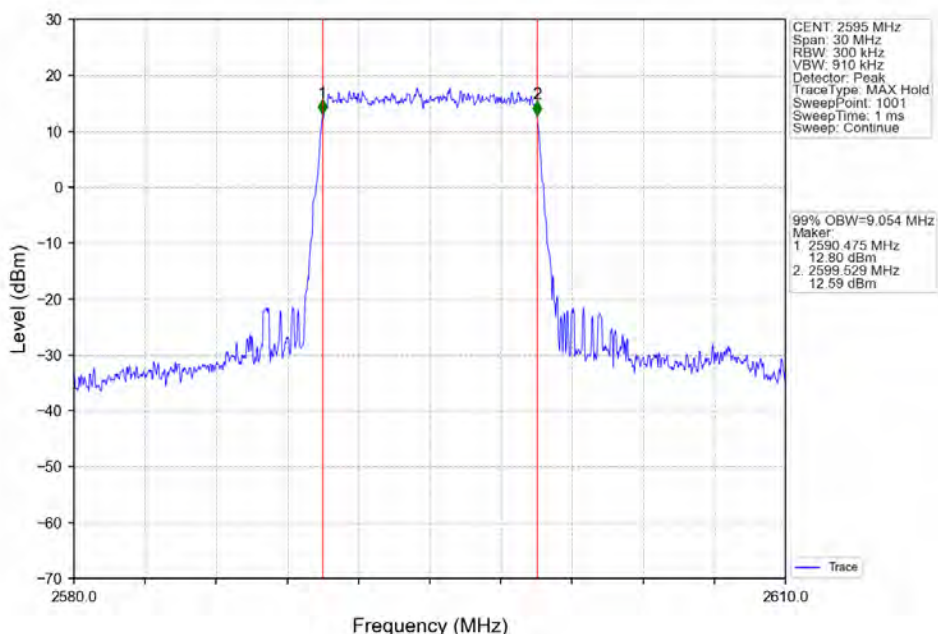
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Report No.: SUCR240400011301

Rev.: 01

Page: 20 of 148

Band38_10MHz_QPSK_MCH_2595MHz_RB_50_0_NTNV



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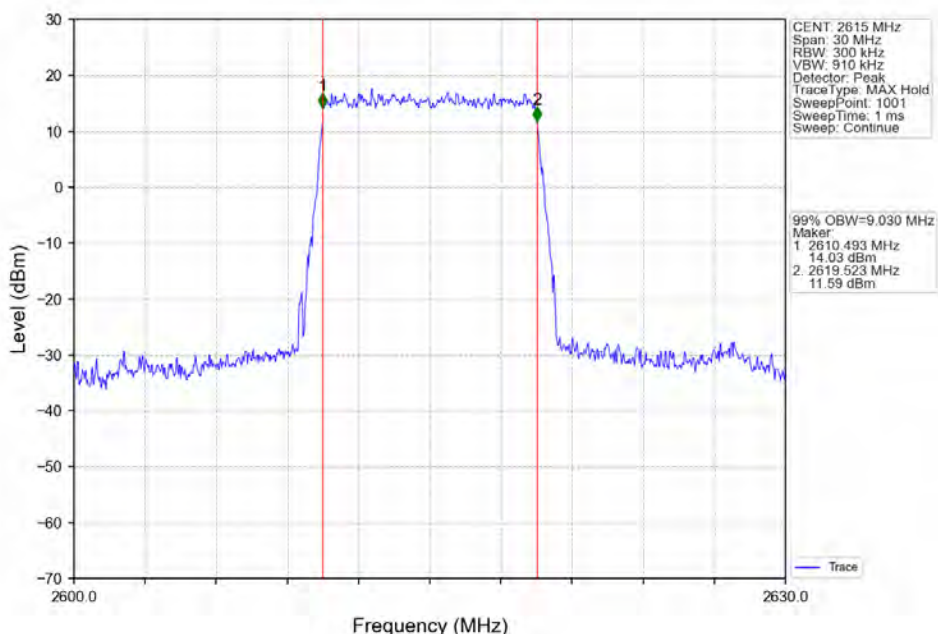
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Report No.: SUCR240400011301

Rev.: 01

Page: 21 of 148

Band38_10MHz_QPSK_HCH_2615MHz_RB_50_0_NTNV



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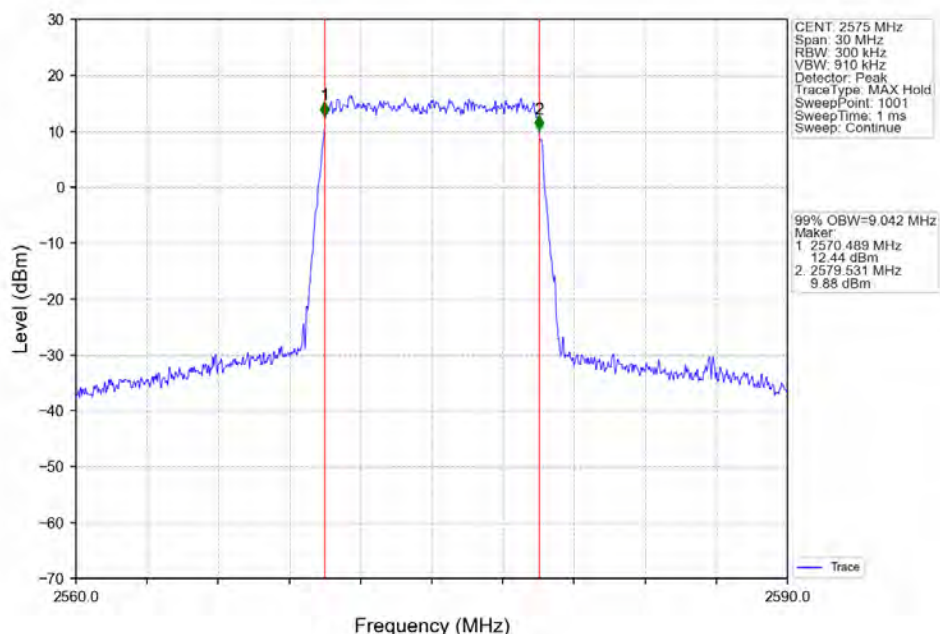
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Report No.: SUCR240400011301

Rev.: 01

Page: 22 of 148

Band38_10MHz_16QAM_LCH_2575MHz_RB_50_0_NTNV



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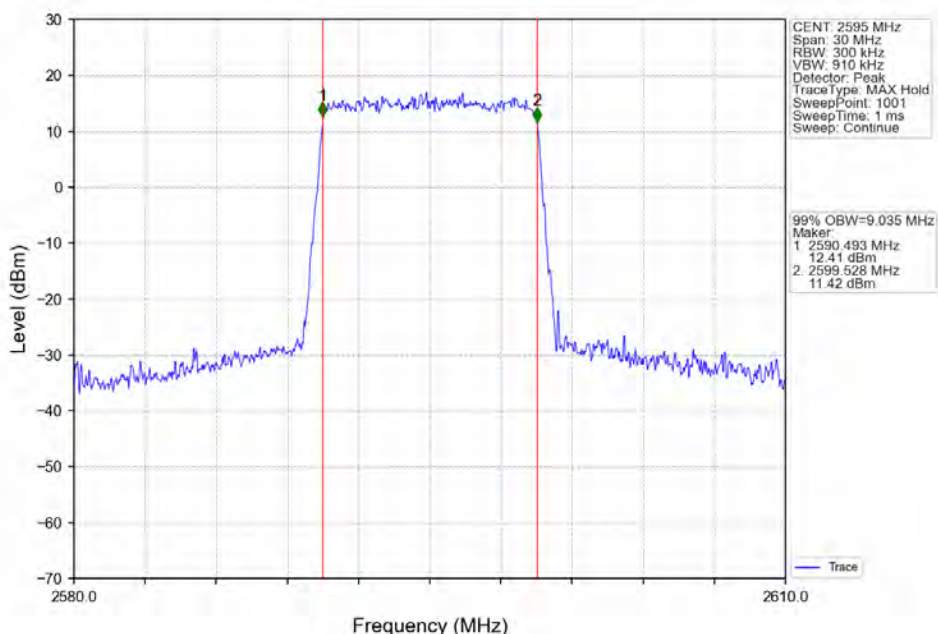
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Report No.: SUCR240400011301

Rev.: 01

Page: 23 of 148

Band38_10MHz_16QAM_MCH_2595MHz_RB_50_0_NTNV



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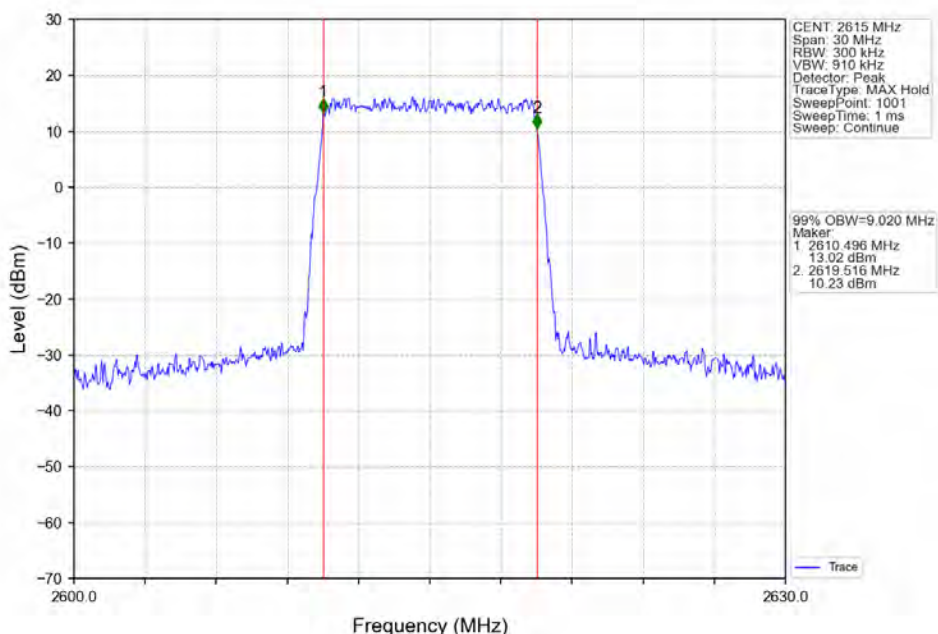
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Report No.: SUCR240400011301

Rev.: 01

Page: 24 of 148

Band38_10MHz_16QAM_HCH_2615MHz_RB_50_0_NTNV



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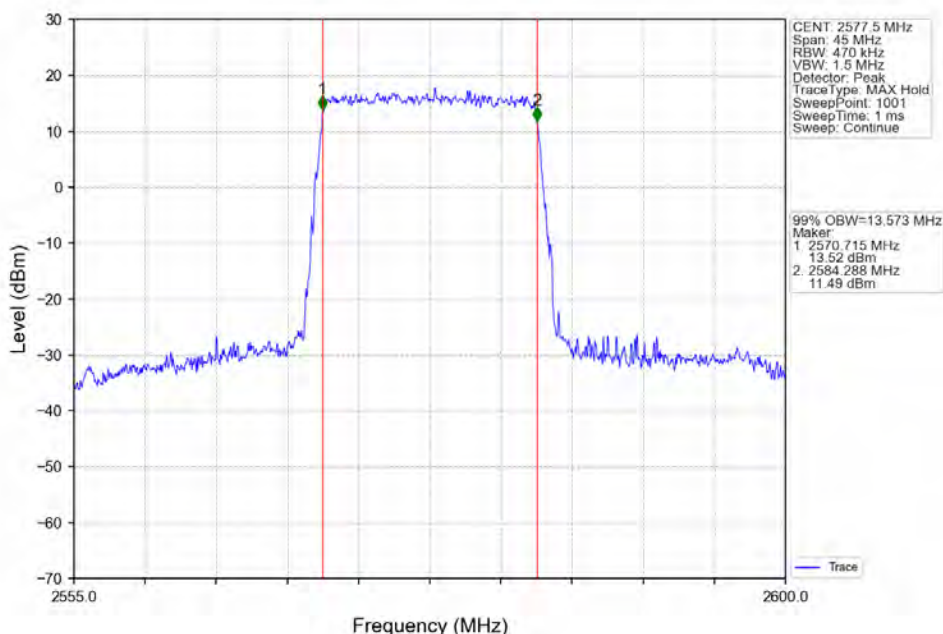
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Page: 25 of 148

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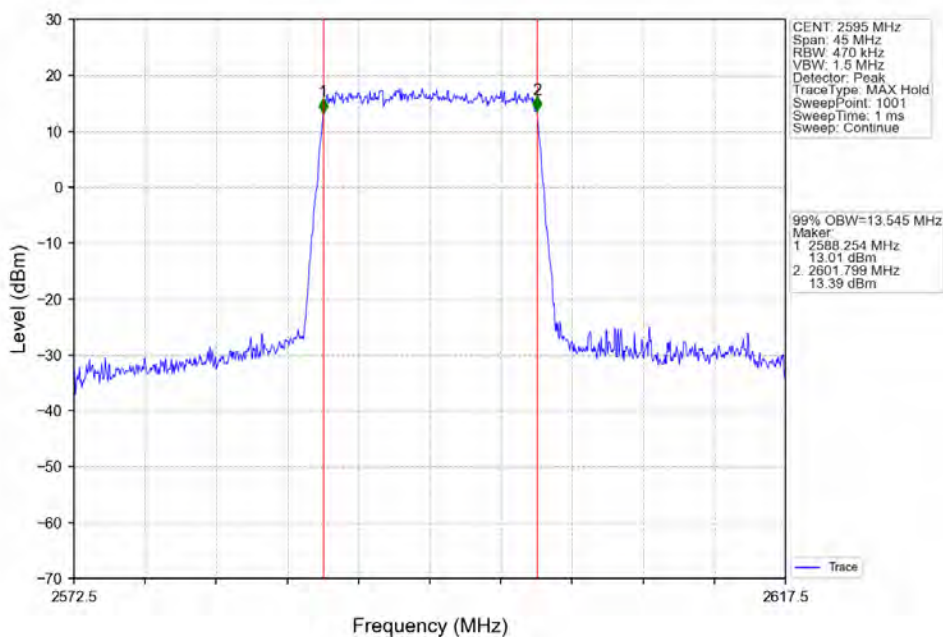
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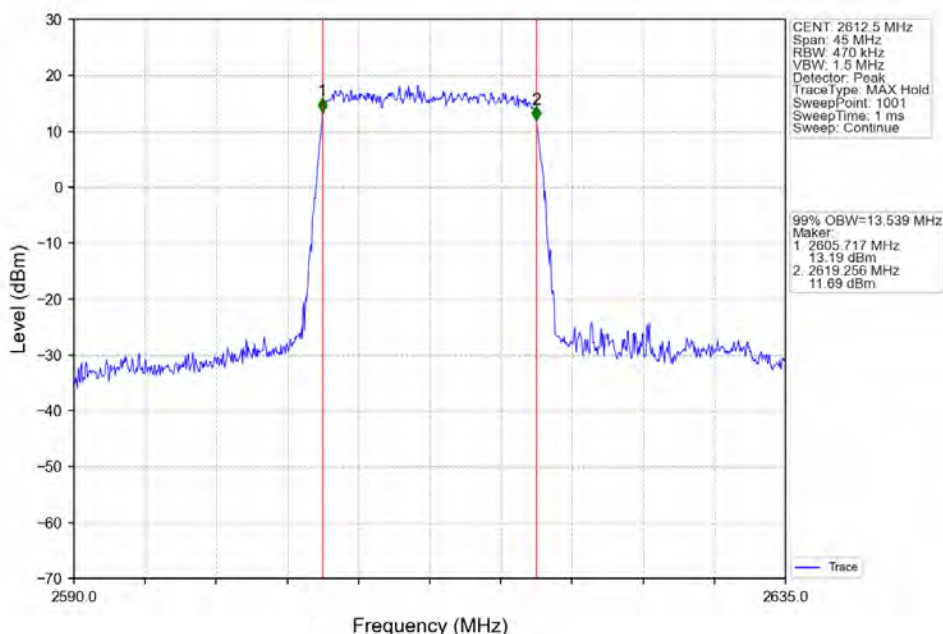
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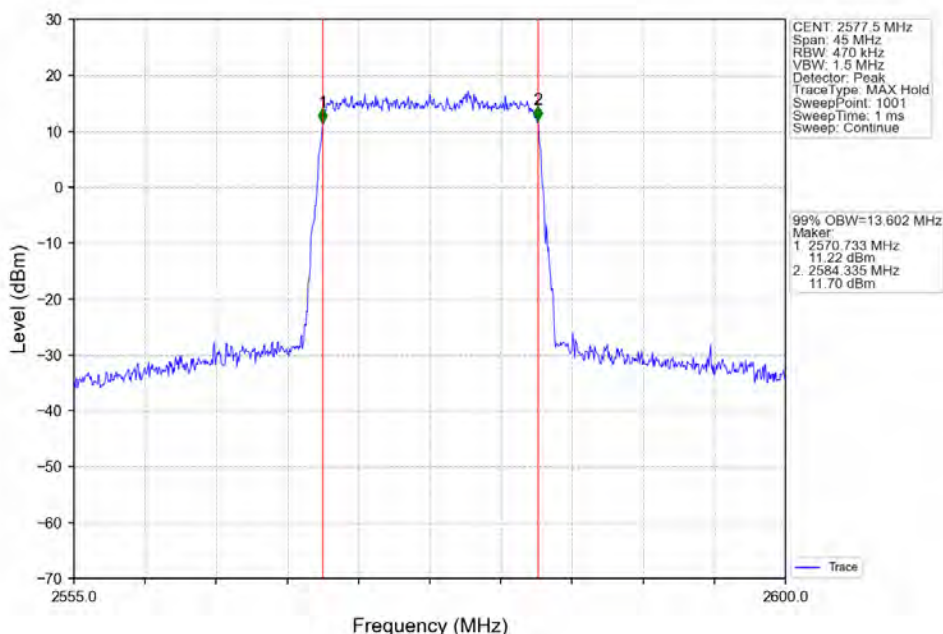
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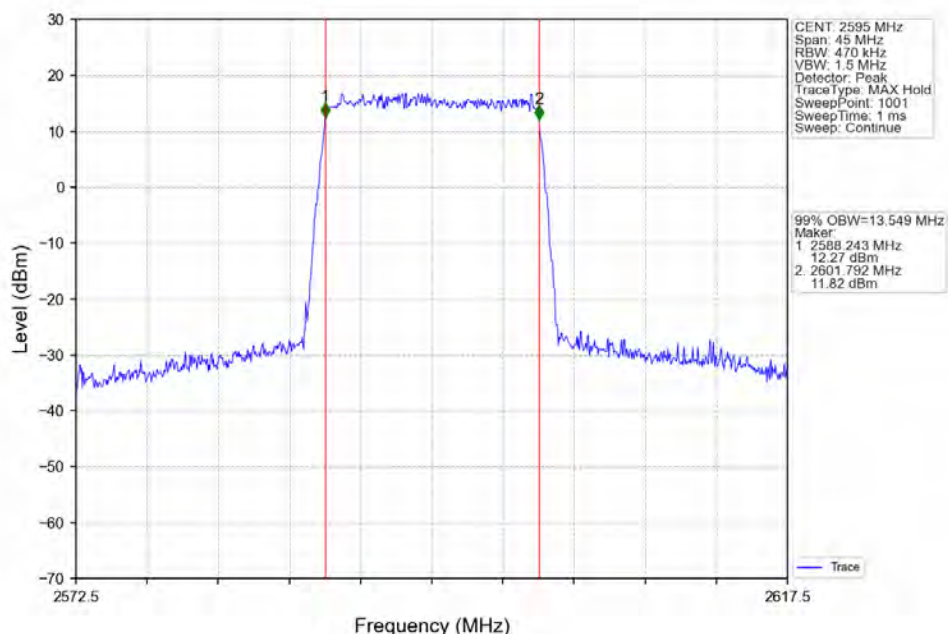
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Rev.: 01

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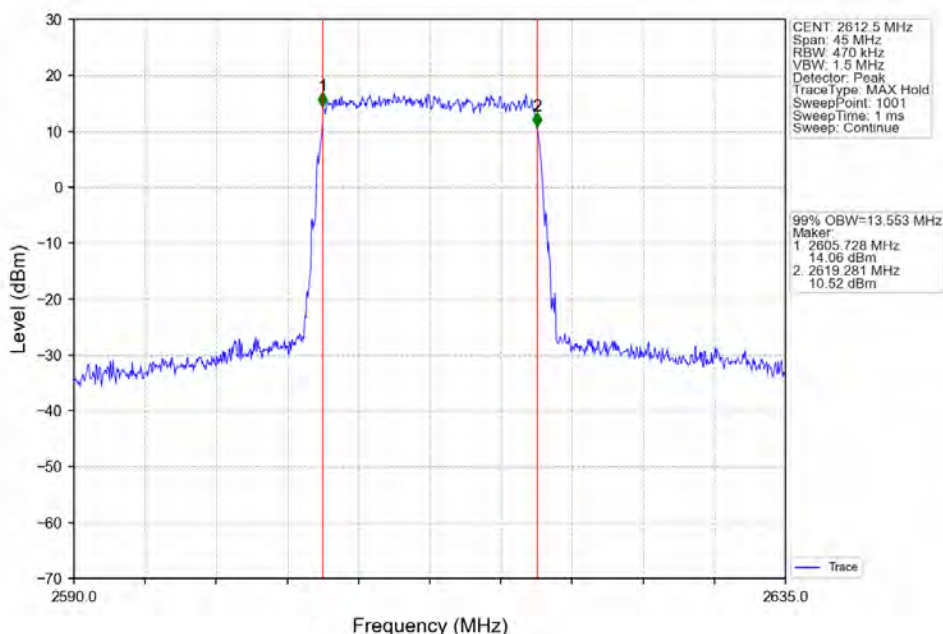
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Report No.: SUCR240400011301

Rev.: 01

Page: 30 of 148

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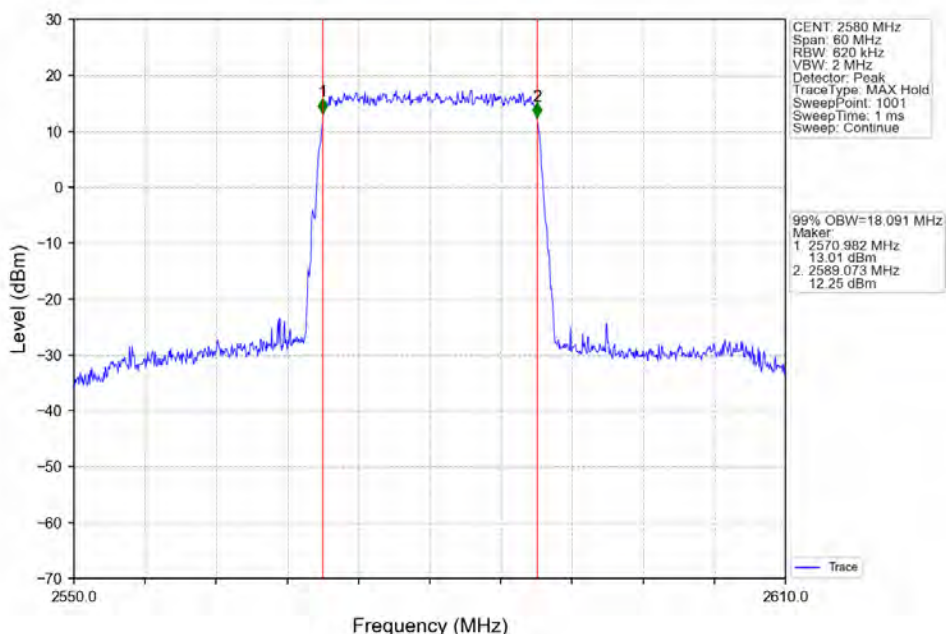
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Report No.: SUCR240400011301

Rev.: 01

Page: 31 of 148

Band38_20MHz_QPSK_LCH_2580MHz_RB_100_0_NTNV



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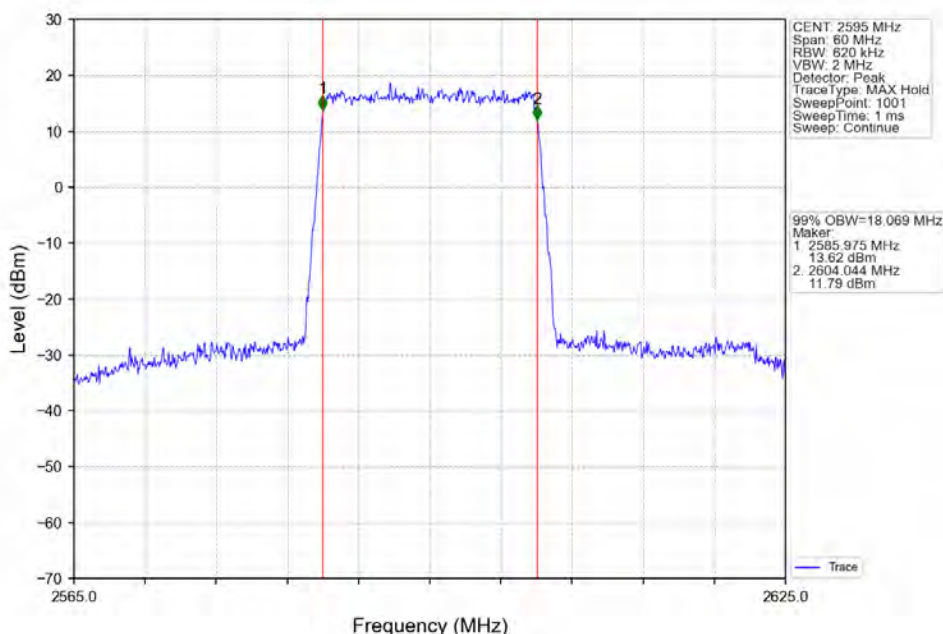
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Report No.: SUCR240400011301

Rev.: 01

Page: 32 of 148

Band38_20MHz_QPSK_MCH_2595MHz_RB_100_0_NTNV



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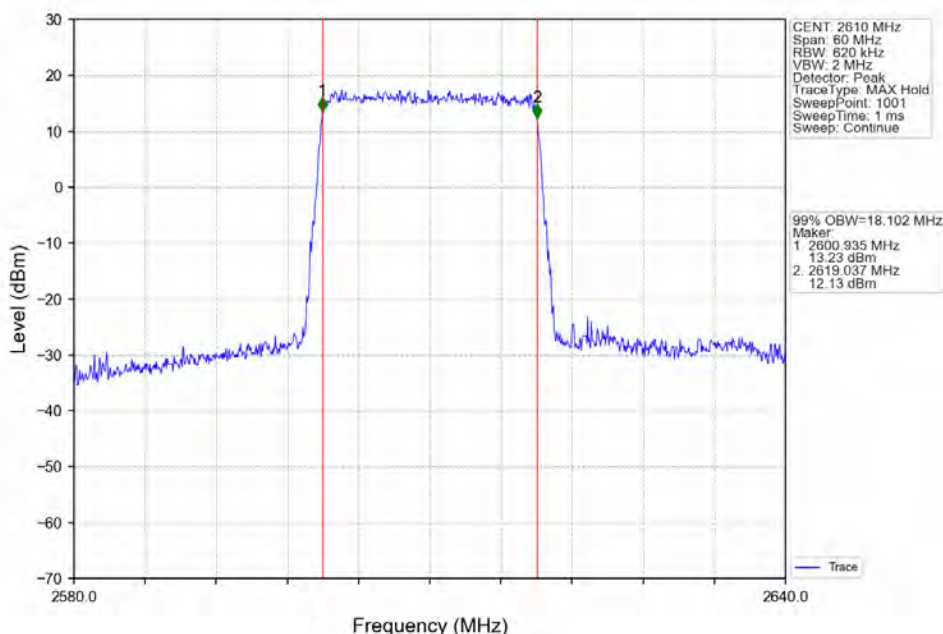
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Report No.: SUCR240400011301

Rev.: 01

Page: 33 of 148

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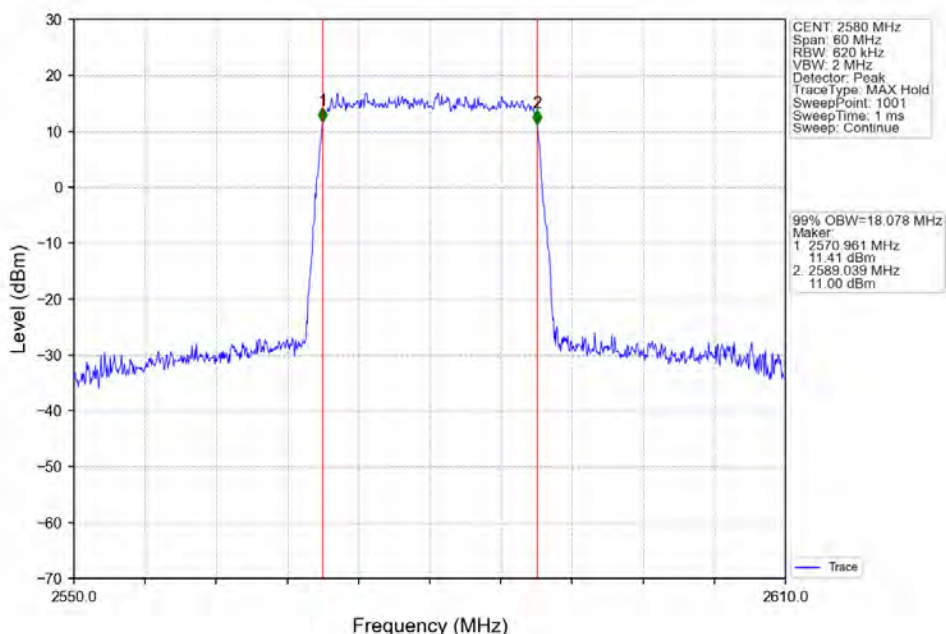
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Report No.: SUCR240400011301

Rev.: 01

Page: 34 of 148

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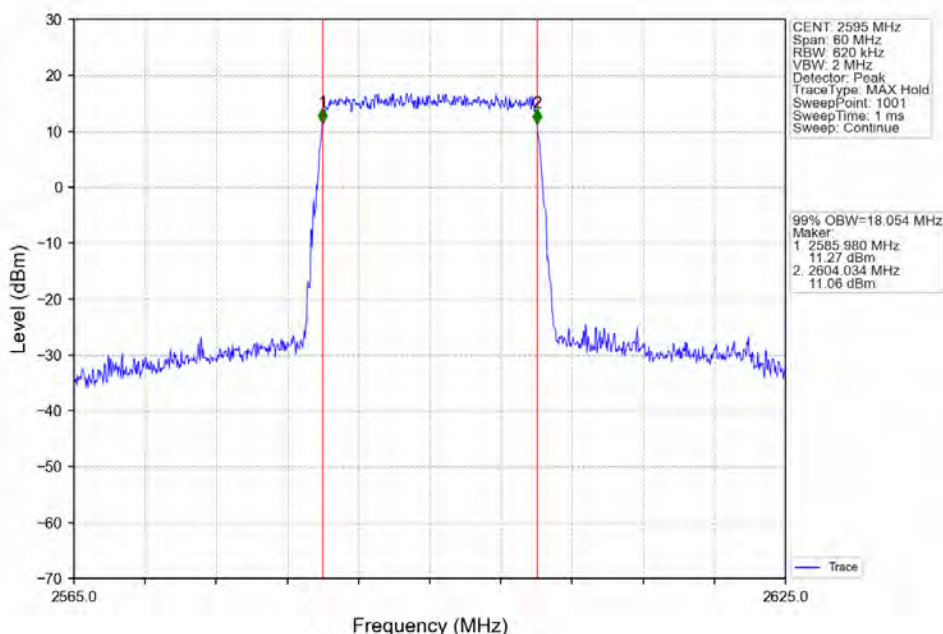
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Report No.: SUCR240400011301

Rev.: 01

Page: 35 of 148

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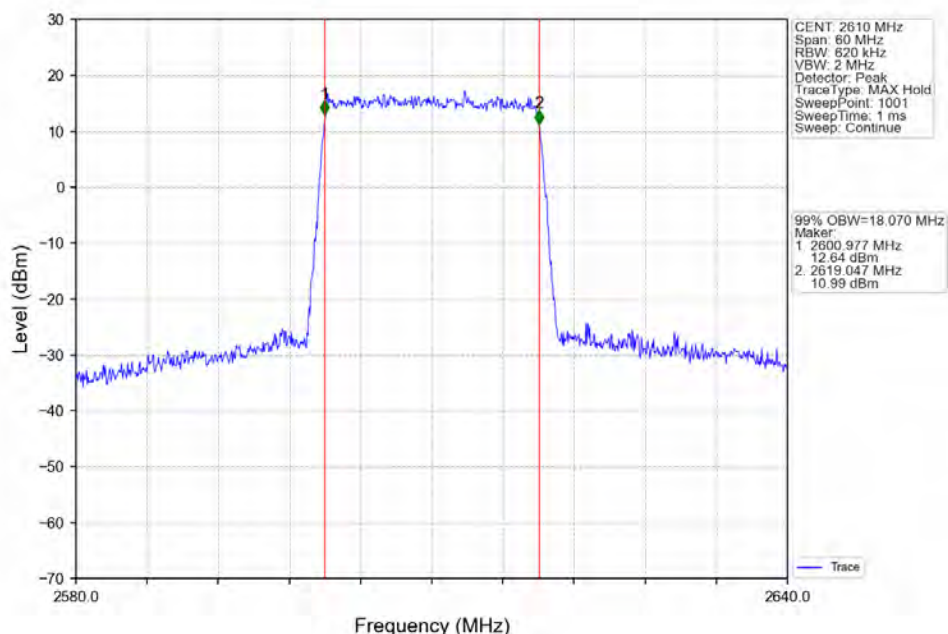
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Report No.: SUCR240400011301

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Page: 36 of 148

Band38_20MHz_16QAM_HCH_2610MHz_RB_100_0_NTNV



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Report No.: SUCR240400011301

Rev.: 01

Page: 37 of 148

3.2 Band38_XDB

3.2.1 Test Result

Band: 38 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2572.5	25	0	5.005	/	Pass
		2595	25	0	5.131	/	Pass
		2617.5	25	0	5.033	/	Pass
	16QAM	2572.5	25	0	5.053	/	Pass
		2595	25	0	5.025	/	Pass
		2617.5	25	0	5.017	/	Pass
10	QPSK	2575	50	0	9.958	/	Pass
		2595	50	0	9.887	/	Pass
		2615	50	0	9.946	/	Pass
	16QAM	2575	50	0	9.954	/	Pass
		2595	50	0	9.814	/	Pass
		2615	50	0	9.970	/	Pass
15	QPSK	2577.5	75	0	14.946	/	Pass
		2595	75	0	14.873	/	Pass
		2612.5	75	0	14.857	/	Pass
	16QAM	2577.5	75	0	14.951	/	Pass
		2595	75	0	14.915	/	Pass
		2612.5	75	0	14.946	/	Pass
20	QPSK	2580	100	0	19.909	/	Pass
		2595	100	0	19.728	/	Pass
		2610	100	0	19.819	/	Pass
	16QAM	2580	100	0	19.810	/	Pass
		2595	100	0	19.916	/	Pass
		2610	100	0	19.652	/	Pass



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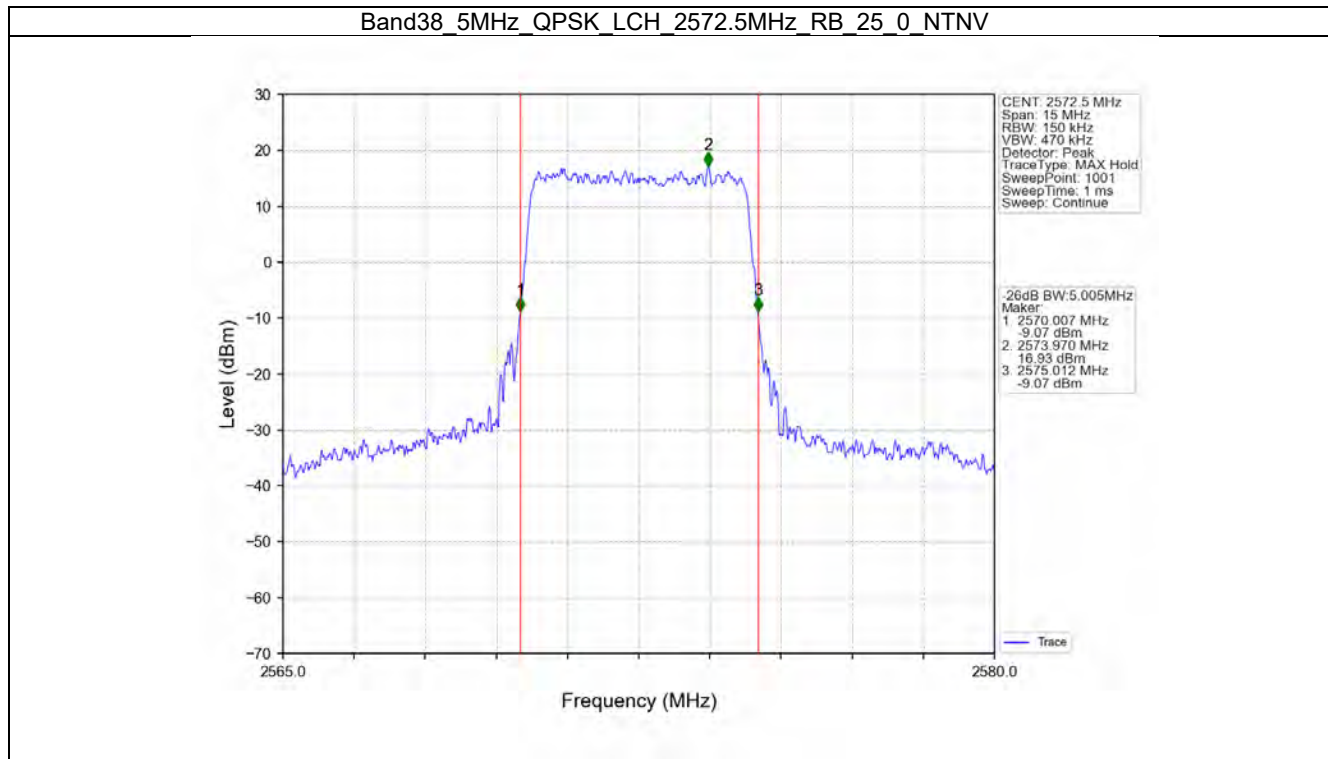
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3.2.2 Test Graph



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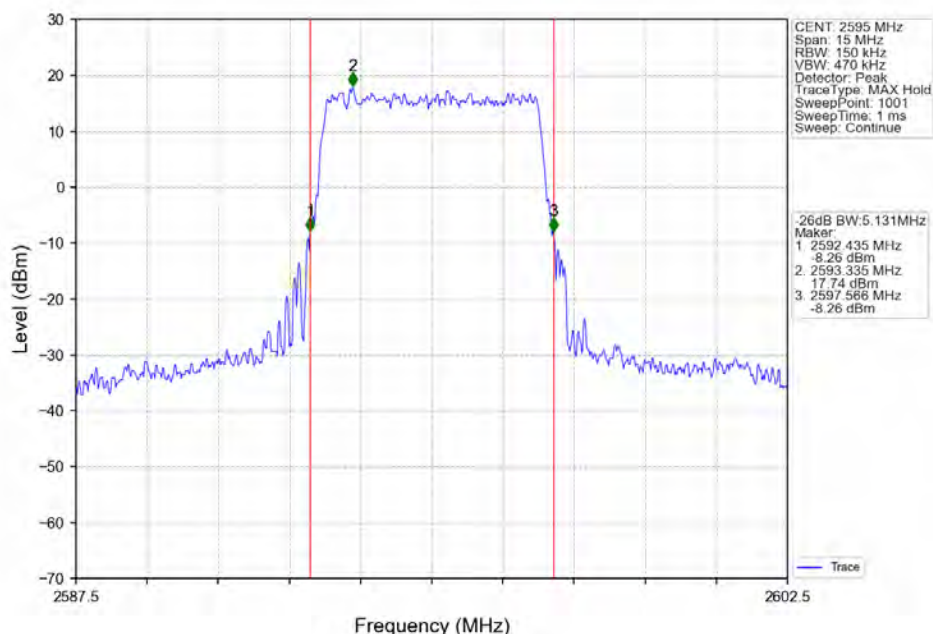
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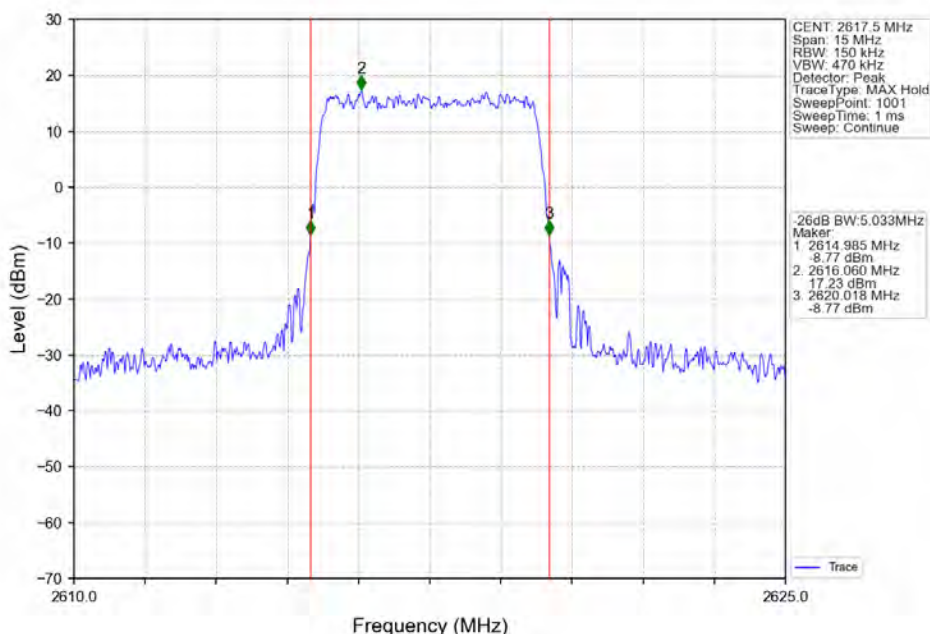
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Rev.: 01

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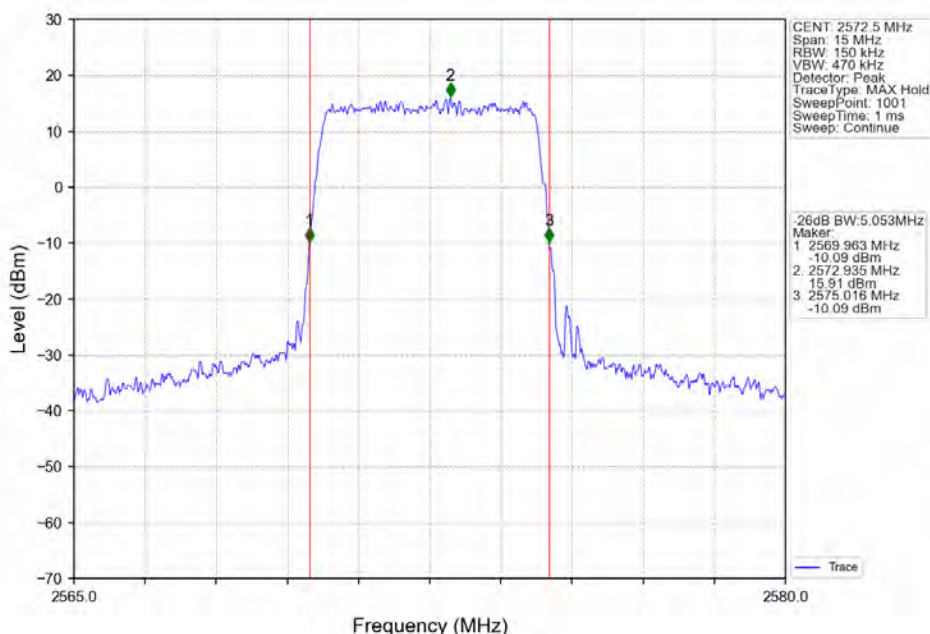
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Rev.: 01

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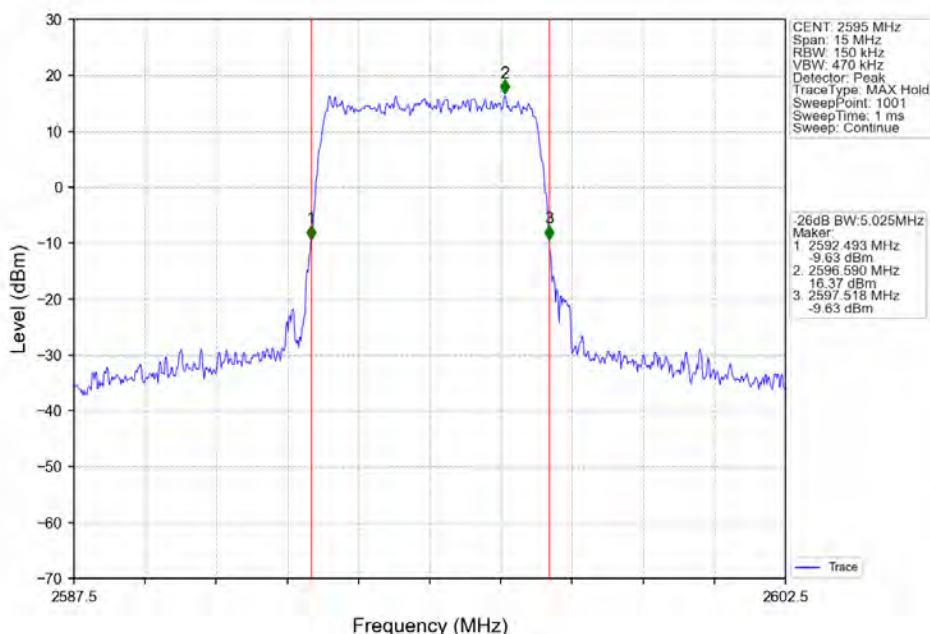
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Report No.: SUCR240400011301

Rev.: 01

Page: 42 of 148

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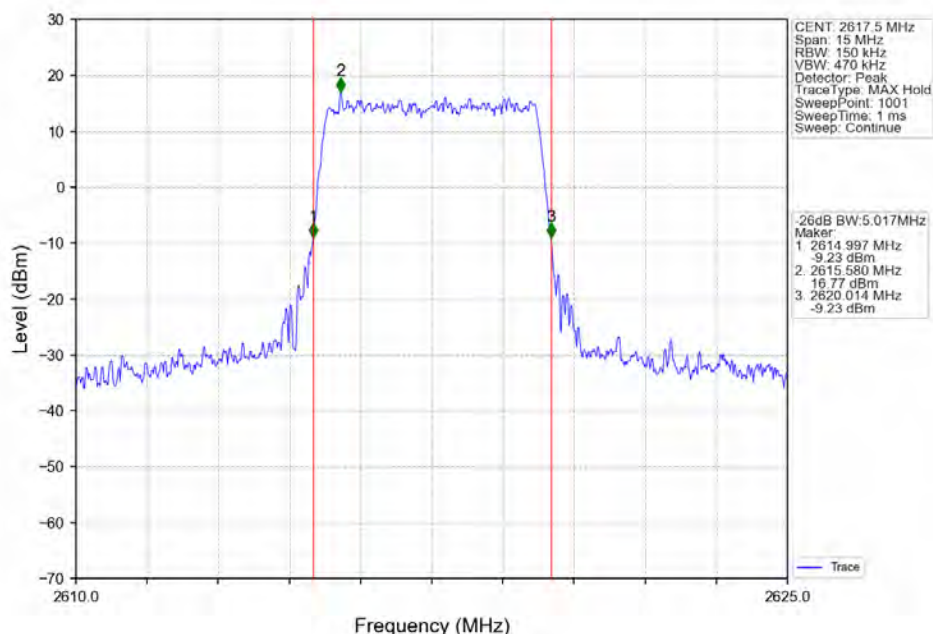
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Report No.: SUCR240400011301

Rev.: 01

Page: 43 of 148

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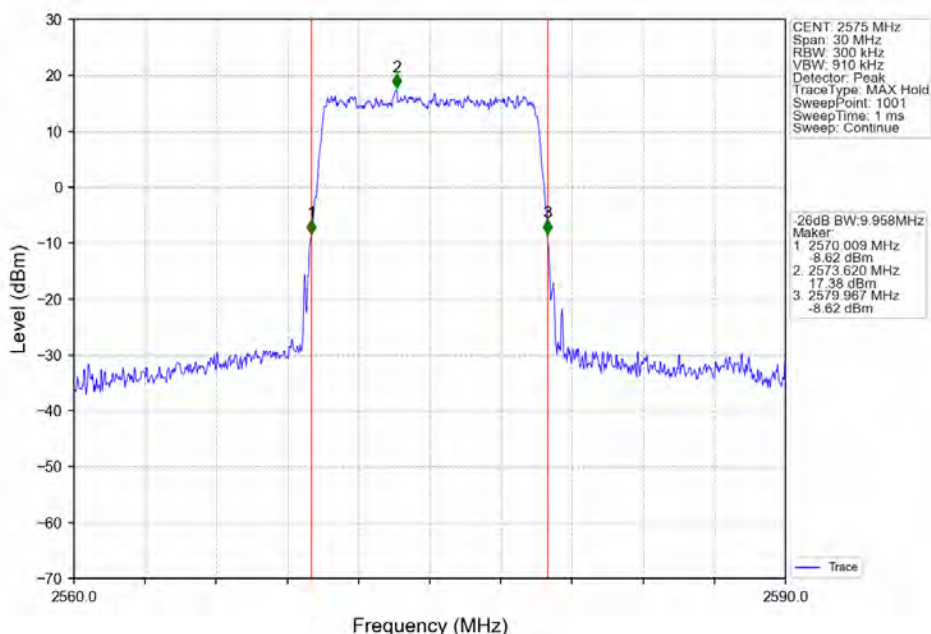
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Report No.: SUCR240400011301

Rev.: 01

Page: 44 of 148

Band38_10MHz_QPSK_LCH_2575MHz_RB_50_0_NTNV



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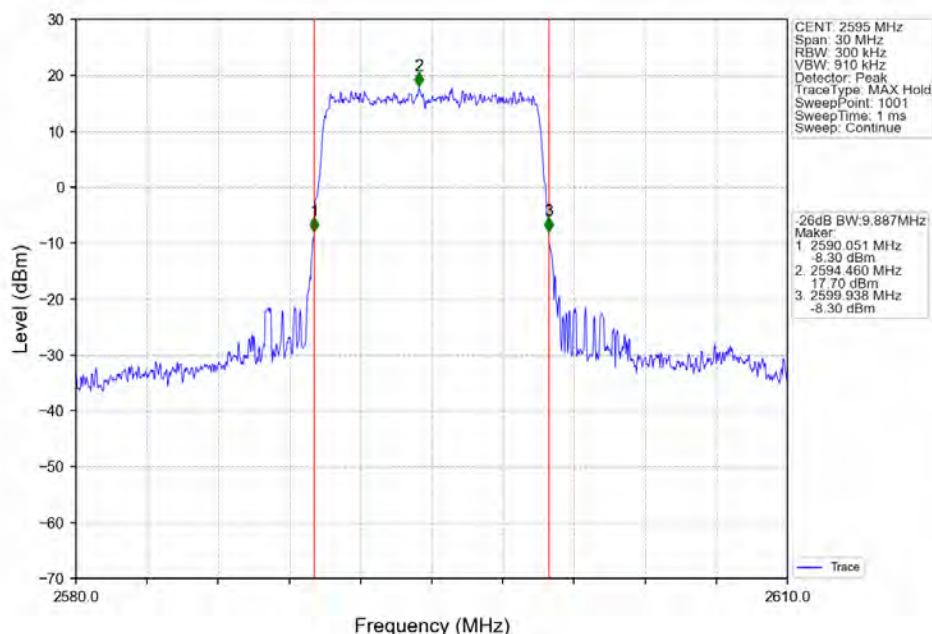
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Report No.: SUCR240400011301

Rev.: 01

Page: 45 of 148

Band38_10MHz_QPSK_MCH_2595MHz_RB_50_0_NTNV



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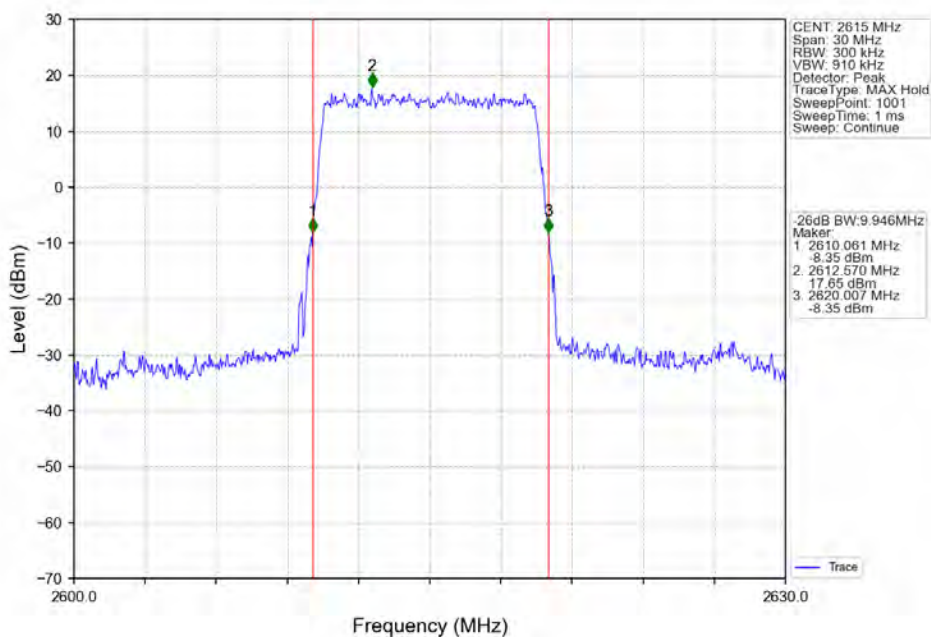
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Report No.: SUCR240400011301

Rev.: 01

Page: 46 of 148

Band38_10MHz_QPSK_HCH_2615MHz_RB_50_0_NTNV



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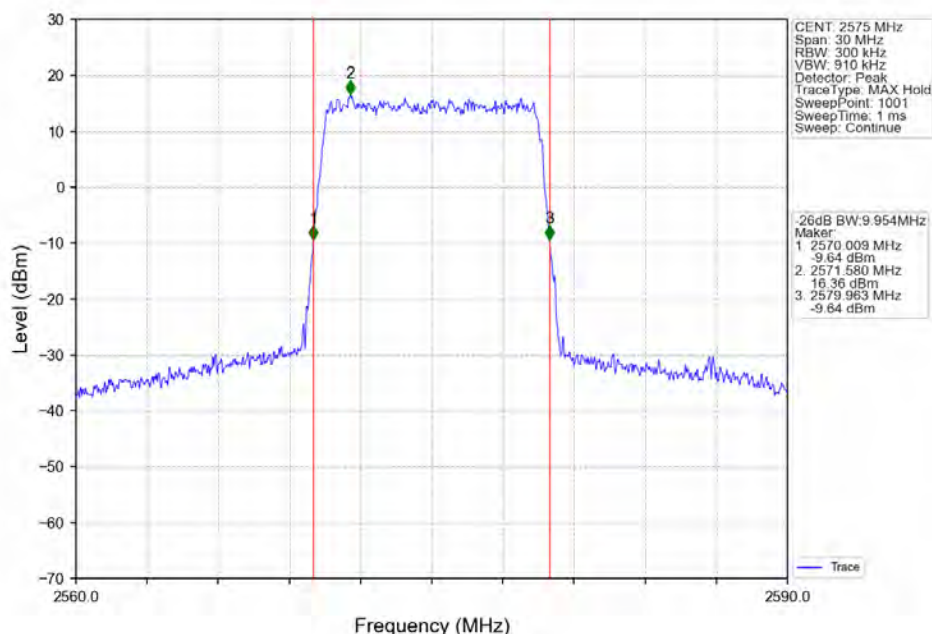
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Report No.: SUCR240400011301

Rev.: 01

Page: 47 of 148

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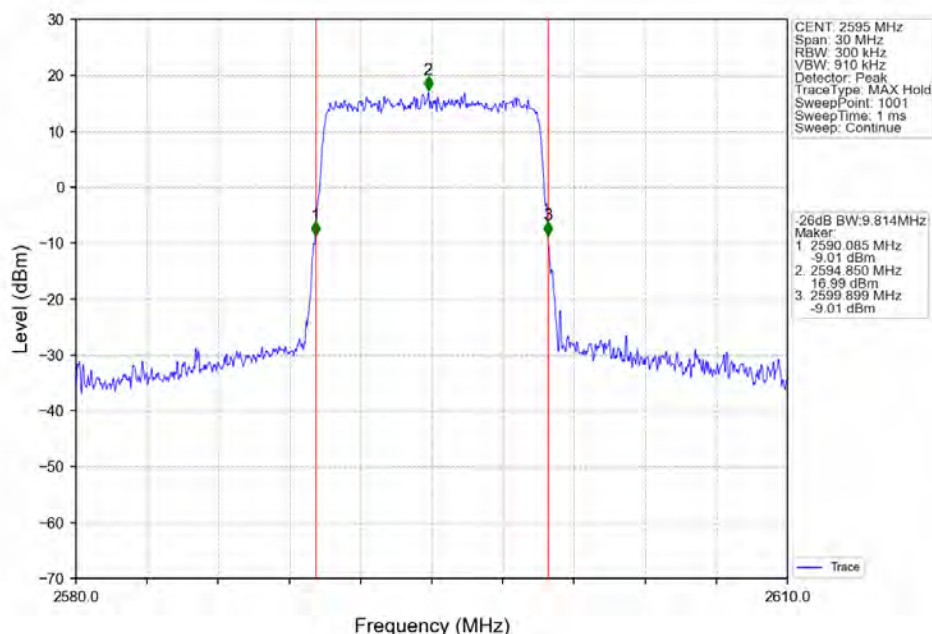
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Report No.: SUCR240400011301

Rev.: 01

Page: 48 of 148

Band38_10MHz_16QAM_MCH_2595MHz_RB_50_0_NTNV



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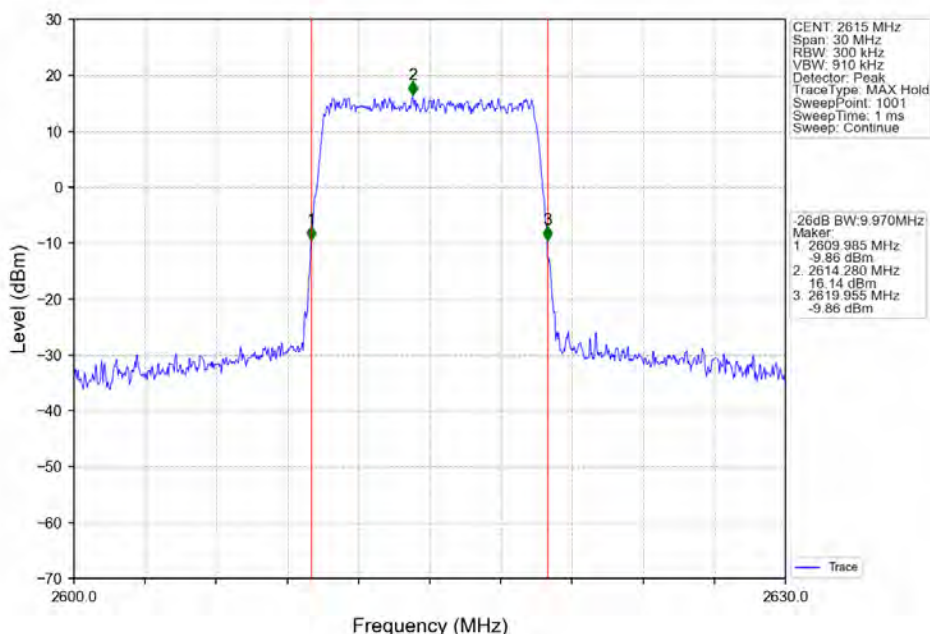
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Report No.: SUCR240400011301

Rev.: 01

Page: 49 of 148

Band38_10MHz_16QAM_HCH_2615MHz_RB_50_0_NTNV



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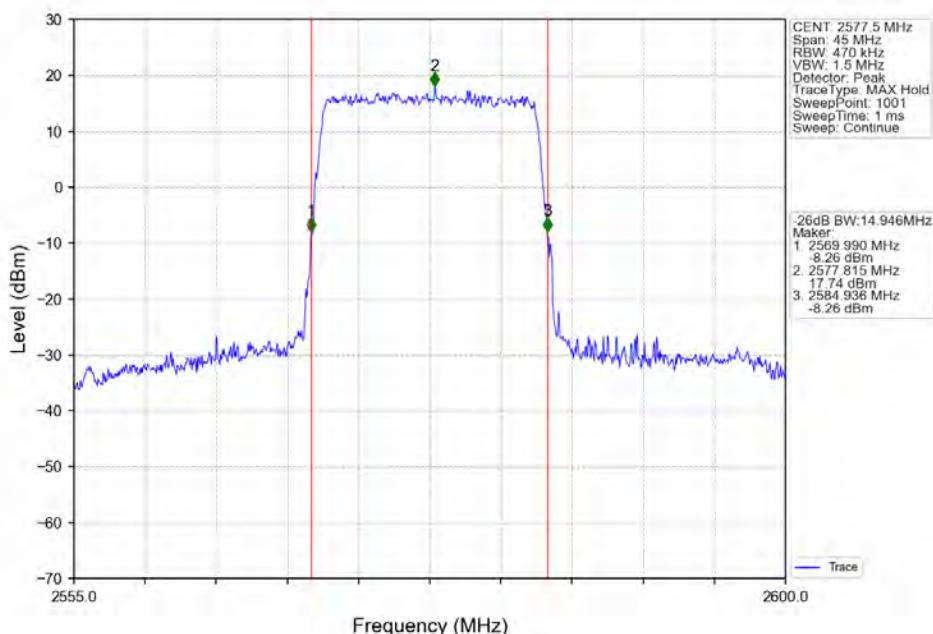
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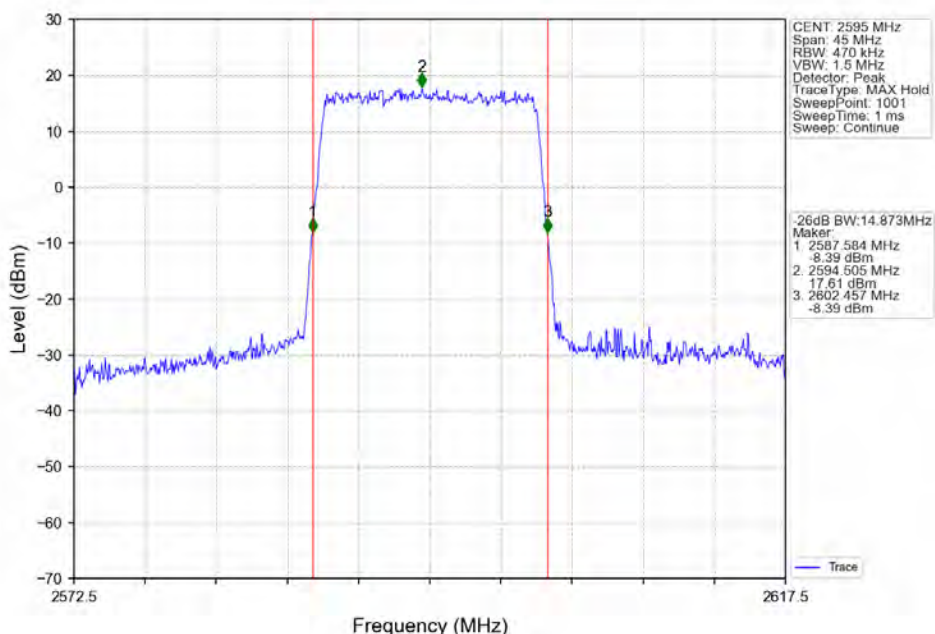
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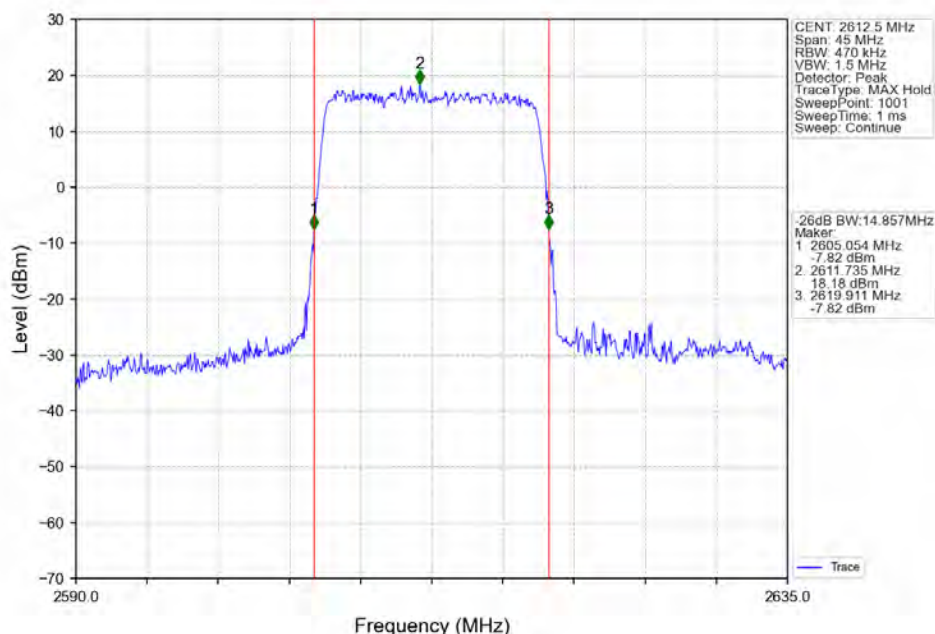
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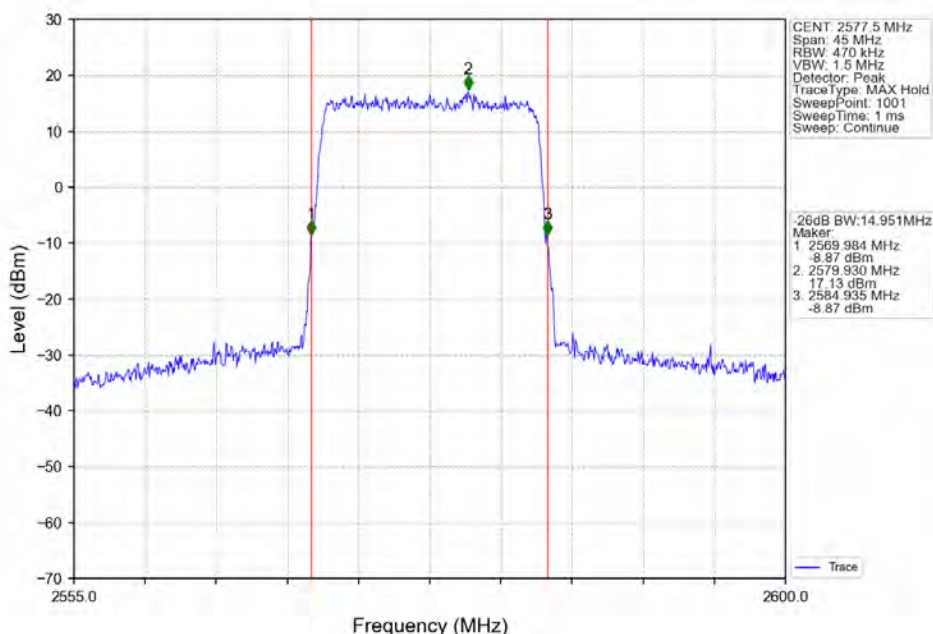
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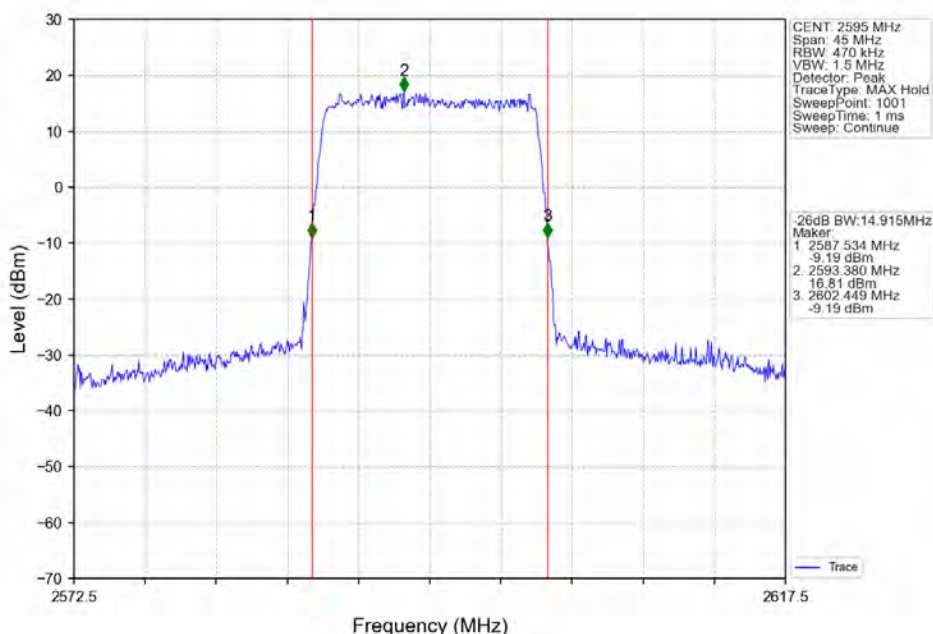
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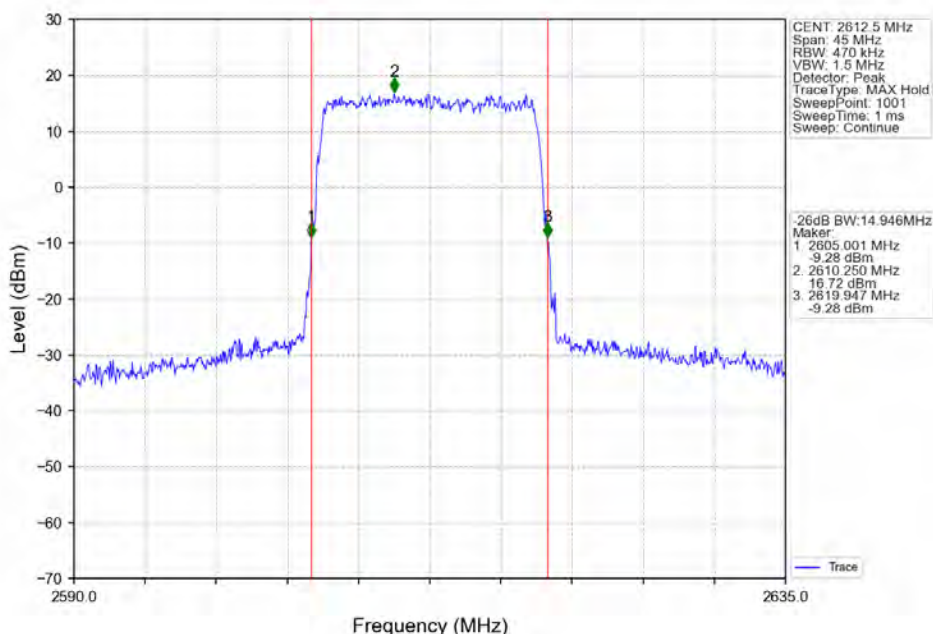
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Report No.: SUCR240400011301

Rev.: 01

Page: 55 of 148

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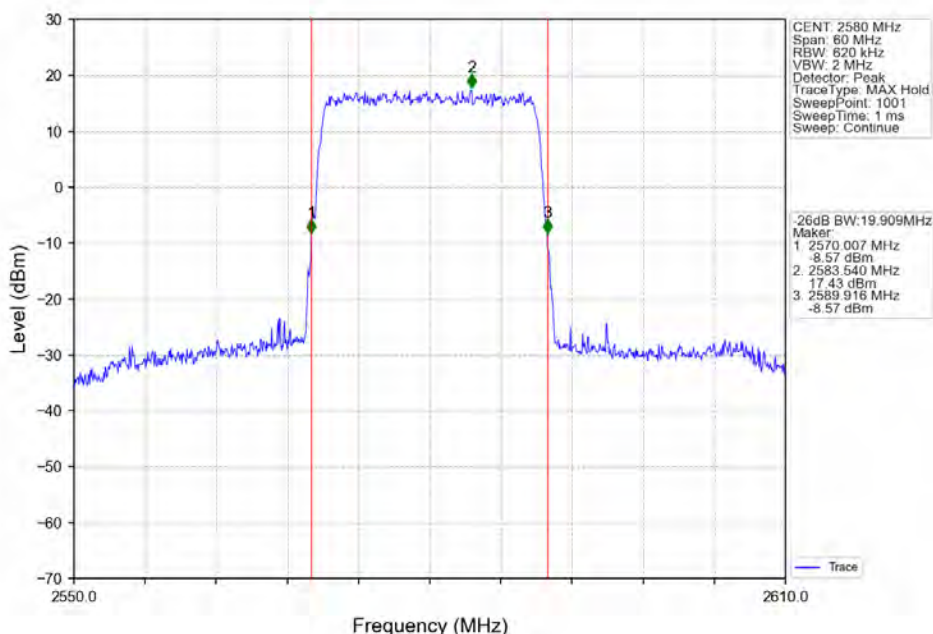
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Report No.: SUCR240400011301

Rev.: 01

Page: 56 of 148

Band38_20MHz_QPSK_LCH_2580MHz_RB_100_0_NTNV



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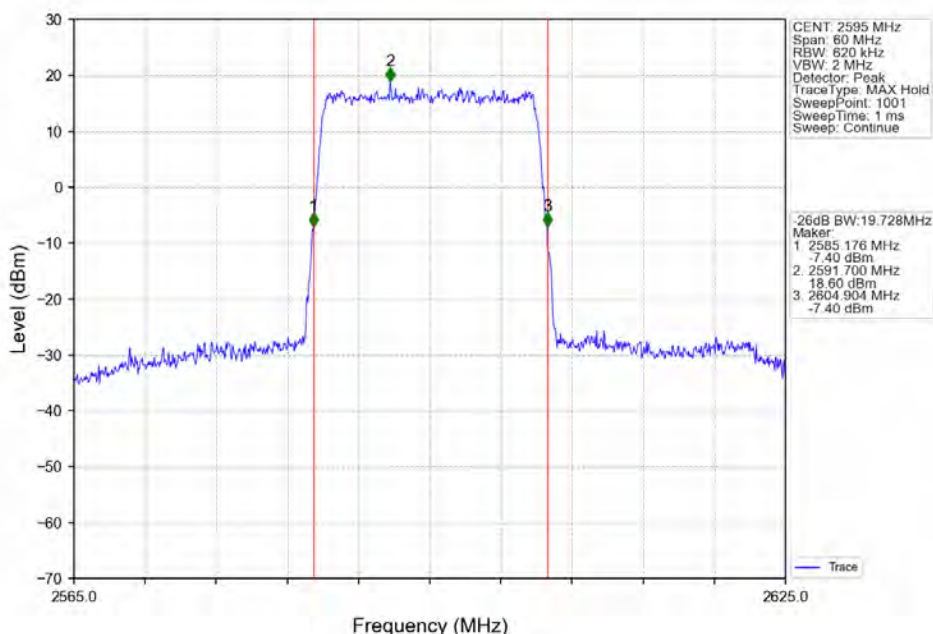
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Report No.: SUCR240400011301

Rev.: 01

Page: 57 of 148

Band38_20MHz_QPSK_MCH_2595MHz_RB_100_0_NTNV



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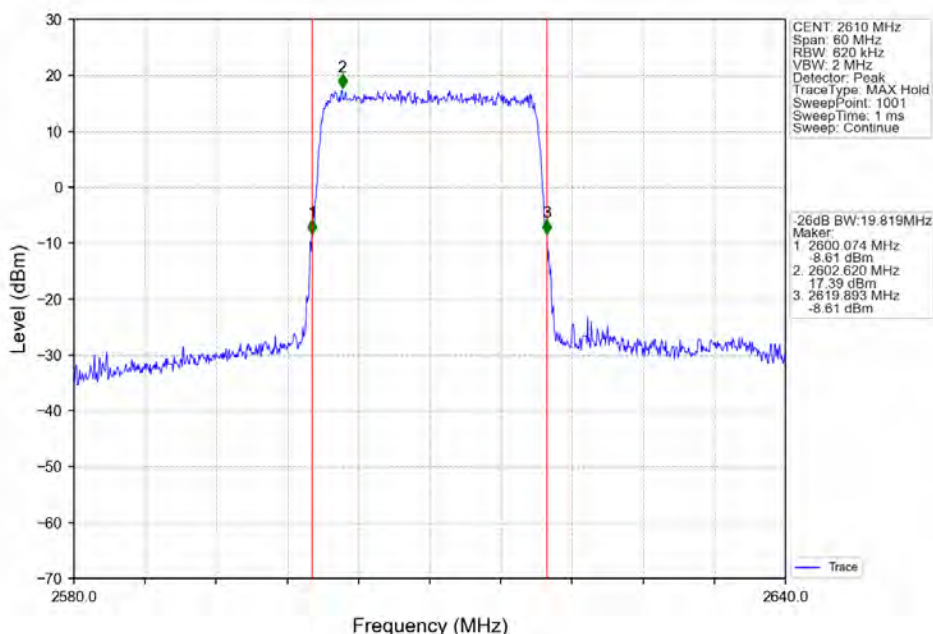
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Report No.: SUCR240400011301

Rev.: 01

Page: 58 of 148

Band38_20MHz_QPSK_HCH_2610MHz_RB_100_0_NTNV



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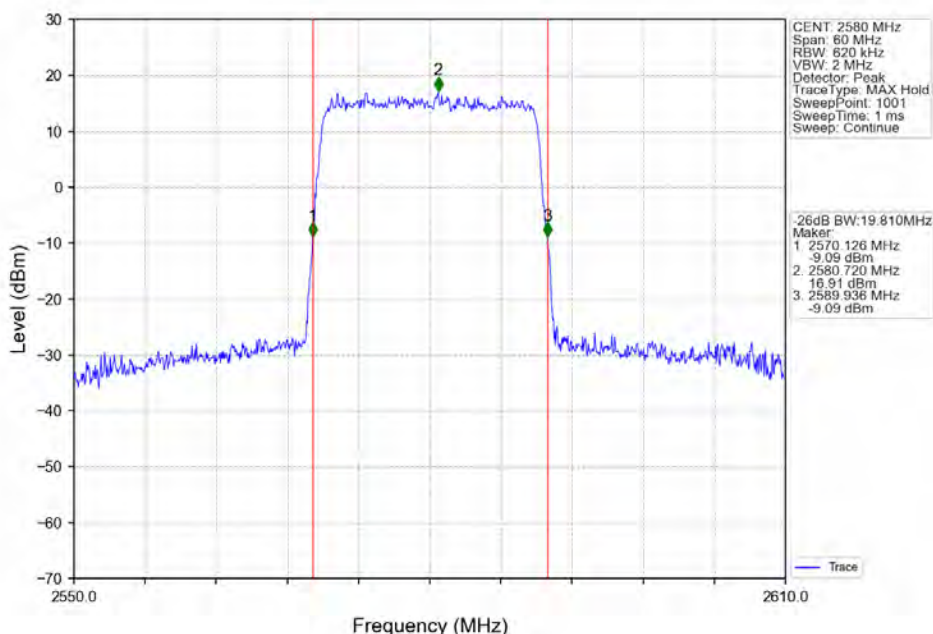
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Page: 59 of 148

Band38_20MHz_16QAM_LCH_2580MHz_RB_100_0_NTNV



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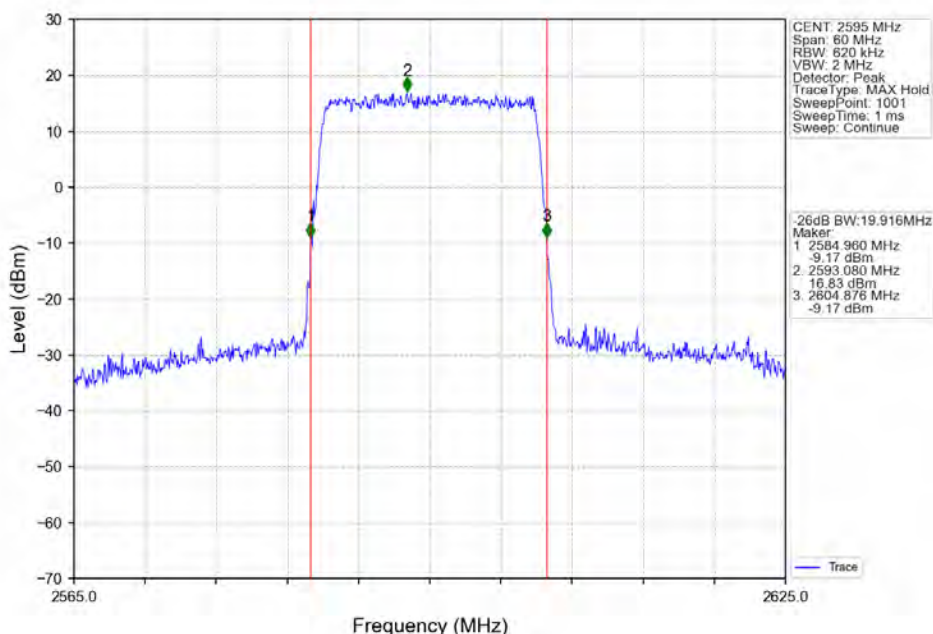
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Rev.: 01

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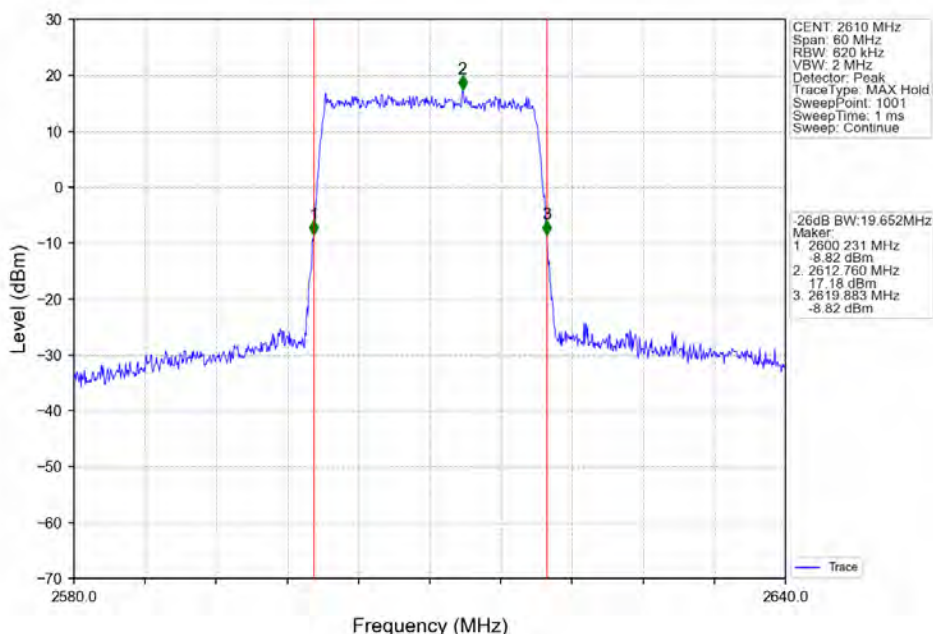
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Rev.: 01

Page: 61 of 148

Band38_20MHz_16QAM_HCH_2610MHz_RB_100_0_NTNV



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Report No.: SUCR240400011301

Rev.: 01

Page: 62 of 148

4. Peak-Average Ratio

4.1 B38_5MHz

4.1.1 Test Result

Band: 38 / Bandwidth: 5MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2572.5	25	0	7.88	<=13	Pass
	2595	25	0	7.94	<=13	Pass
	2617.5	25	0	7.84	<=13	Pass
16QAM	2572.5	25	0	8.56	<=13	Pass
	2595	25	0	8.61	<=13	Pass
	2617.5	25	0	8.57	<=13	Pass



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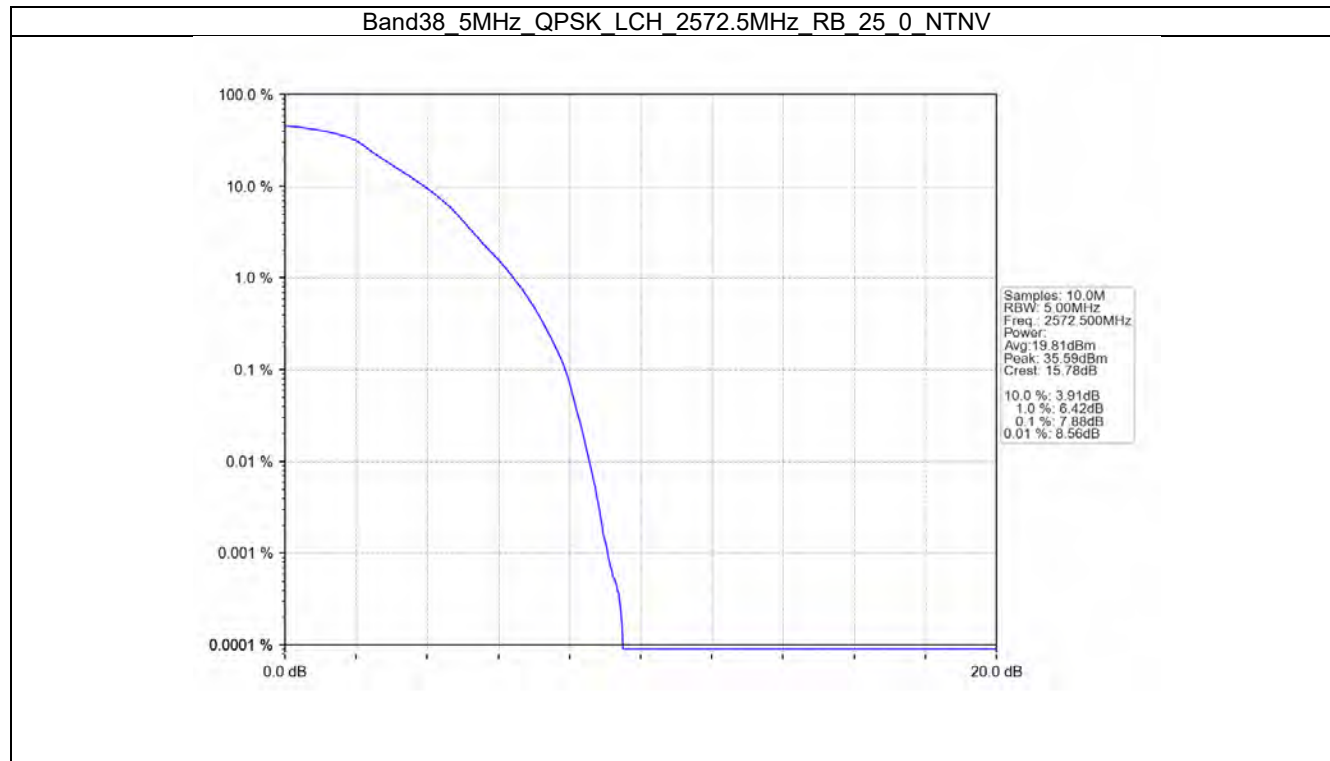
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Page: 63 of 148

4.1.2 Test Graph



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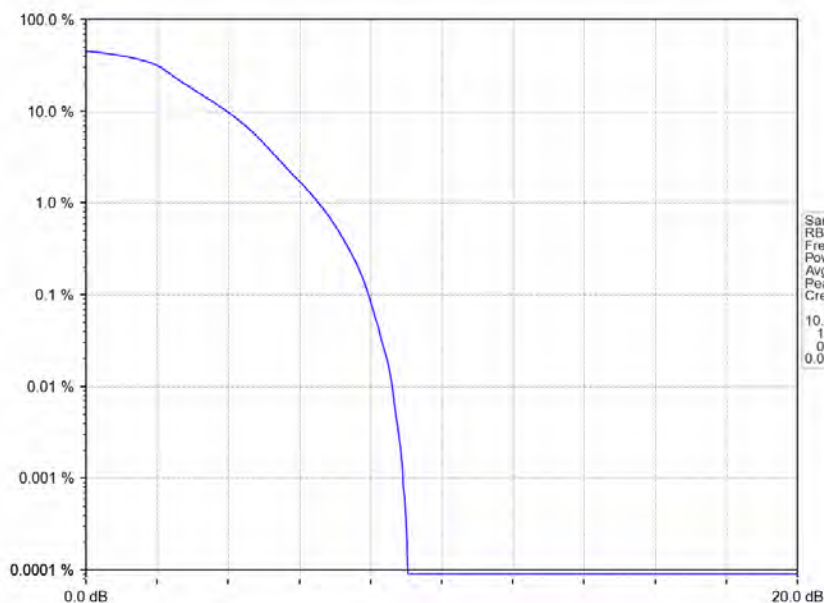
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Report No.: SUCR240400011301

Rev.: 01

Page: 64 of 148

Band38_5MHz_QPSK_MCH_2595MHz_RB_25_0_NTNV



Samples: 10.0M
RBW: 5.00MHz
Freq: 2595.000MHz
Power:
Avg: 20.25dBm
Peak: 29.51dBm
Crest: 9.26dB
10.0%: 3.95dB
1.0%: 6.54dB
0.1%: 7.94dB
0.01%: 8.61dB



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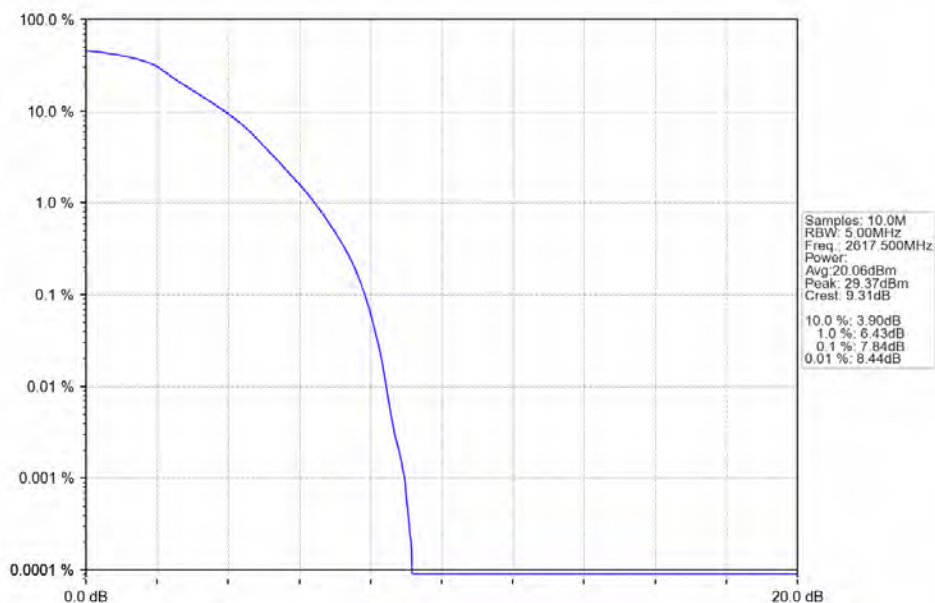
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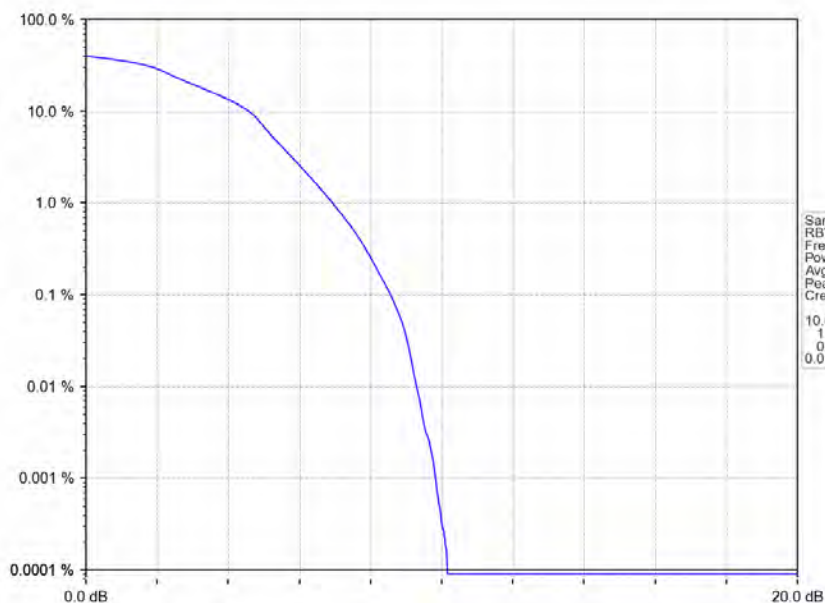
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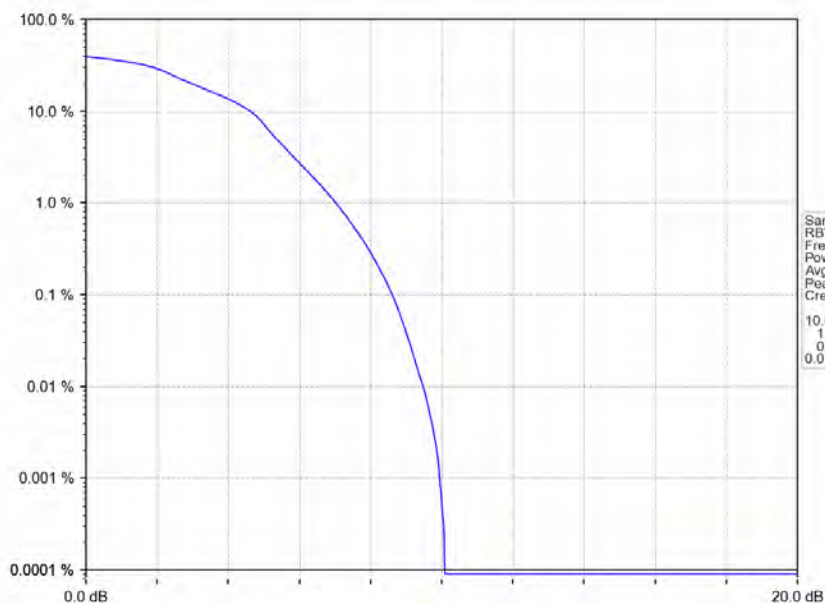
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Report No.: SUCR240400011301

Rev.: 01

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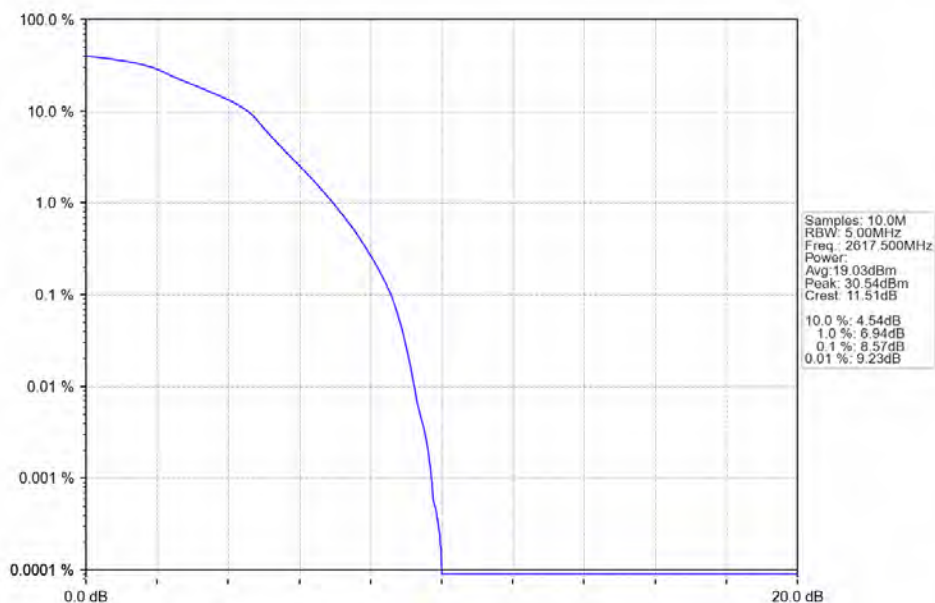
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Rev.: 01

Page: 68 of 148

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Report No.: SUCR240400011301

Rev.: 01

Page: 69 of 148

4.2 B38_10MHz

4.2.1 Test Result

Band: 38 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2575	50	0	7.95	<=13	Pass
	2595	50	0	7.72	<=13	Pass
	2615	50	0	7.89	<=13	Pass
16QAM	2575	50	0	8.55	<=13	Pass
	2595	50	0	8.55	<=13	Pass
	2615	50	0	8.51	<=13	Pass



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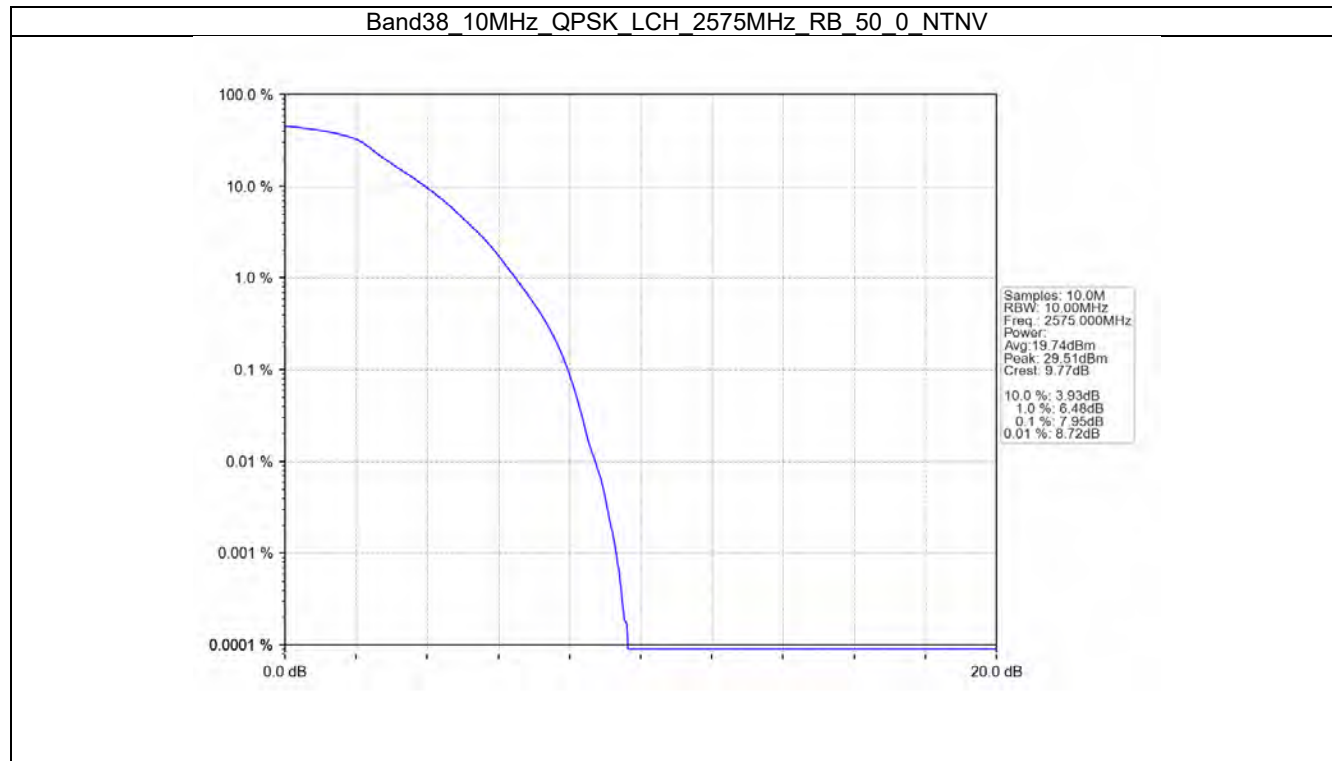
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Report No.: SUCR240400011301

Rev.: 01

Page: 70 of 148

4.2.2 Test Graph



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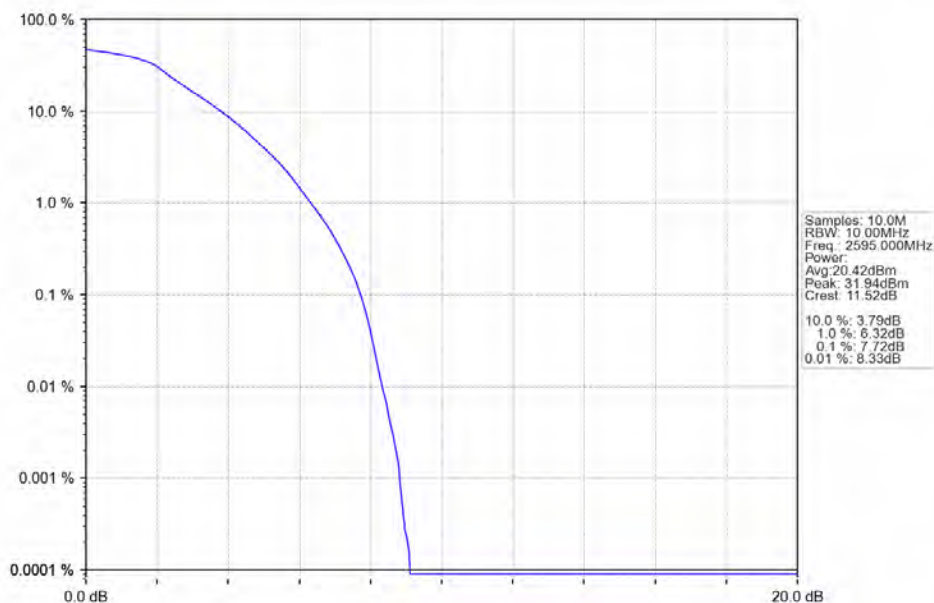
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Report No.: SUCR240400011301

Rev.: 01

Page: 71 of 148

Band38_10MHz_QPSK_MCH_2595MHz_RB_50_0_NTNV



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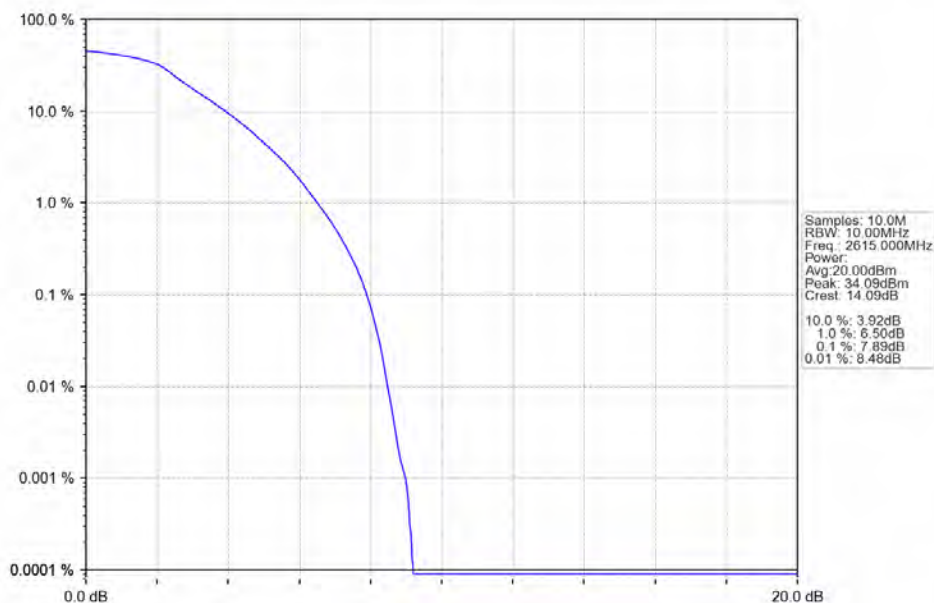
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Report No.: SUCR240400011301

Rev.: 01

Page: 72 of 148

Band38_10MHz_QPSK_HCH_2615MHz_RB_50_0_NTNV



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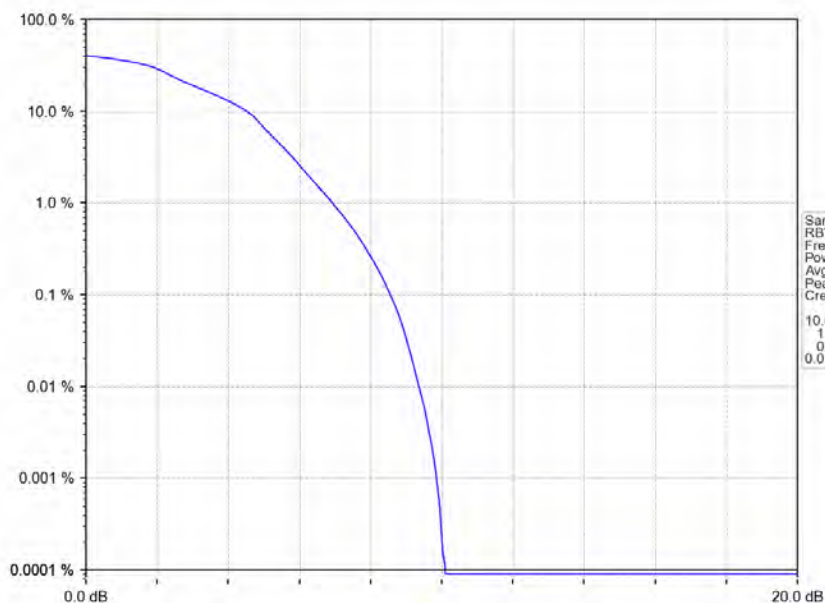
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Report No.: SUCR240400011301

Rev.: 01

Page: 73 of 148

Band38_10MHz_16QAM_LCH_2575MHz_RB_50_0_NTNV



Samples: 10.0M
RBW: 10.00MHz
Freq: 2575.000MHz
Power:
Avg: 18.89dBm
Peak: 30.80dBm
Crest: 11.91dB
10.0%: 4.51dB
1.0%: 6.92dB
0.1%: 8.55dB
0.01%: 9.36dB



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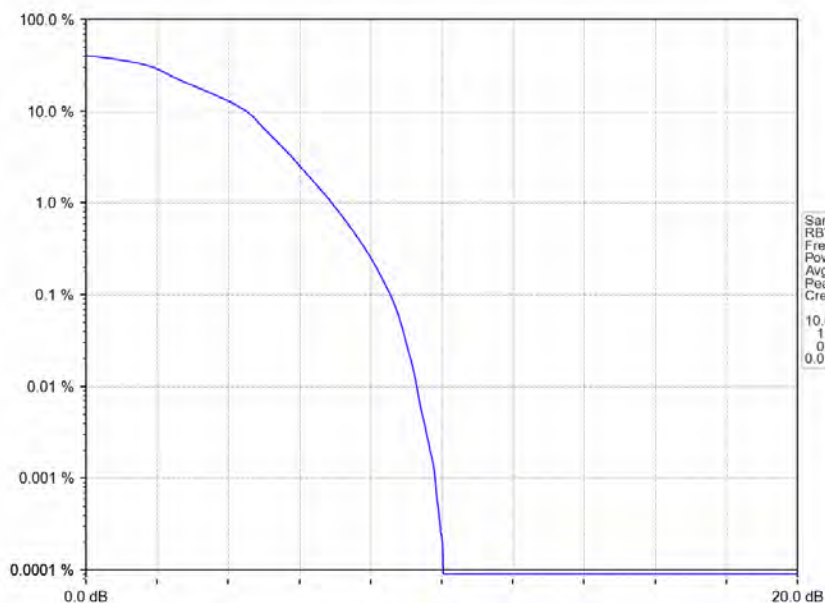
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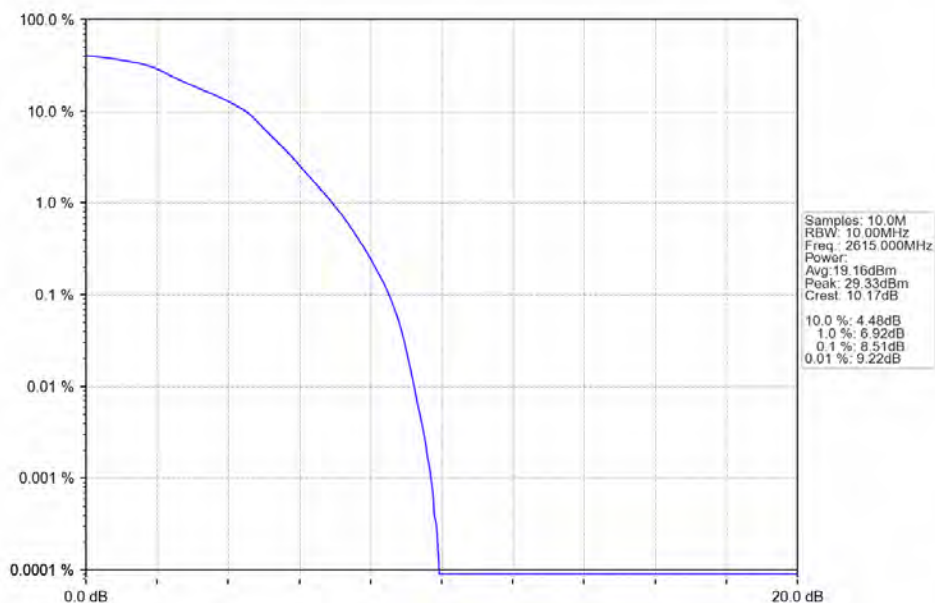
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Report No.: SUCR240400011301

Rev.: 01

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Band38_10MHz_16QAM_HCH_2615MHz_RB_50_0_NTNV



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Report No.: SUCR240400011301

Rev.: 01

Page: 76 of 148

4.3 B38_15MHz

4.3.1 Test Result

Band: 38 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2577.5	75	0	8.13	<=13	Pass
	2595	75	0	7.98	<=13	Pass
	2612.5	75	0	7.75	<=13	Pass
16QAM	2577.5	75	0	8.42	<=13	Pass
	2595	75	0	8.55	<=13	Pass
	2612.5	75	0	8.56	<=13	Pass



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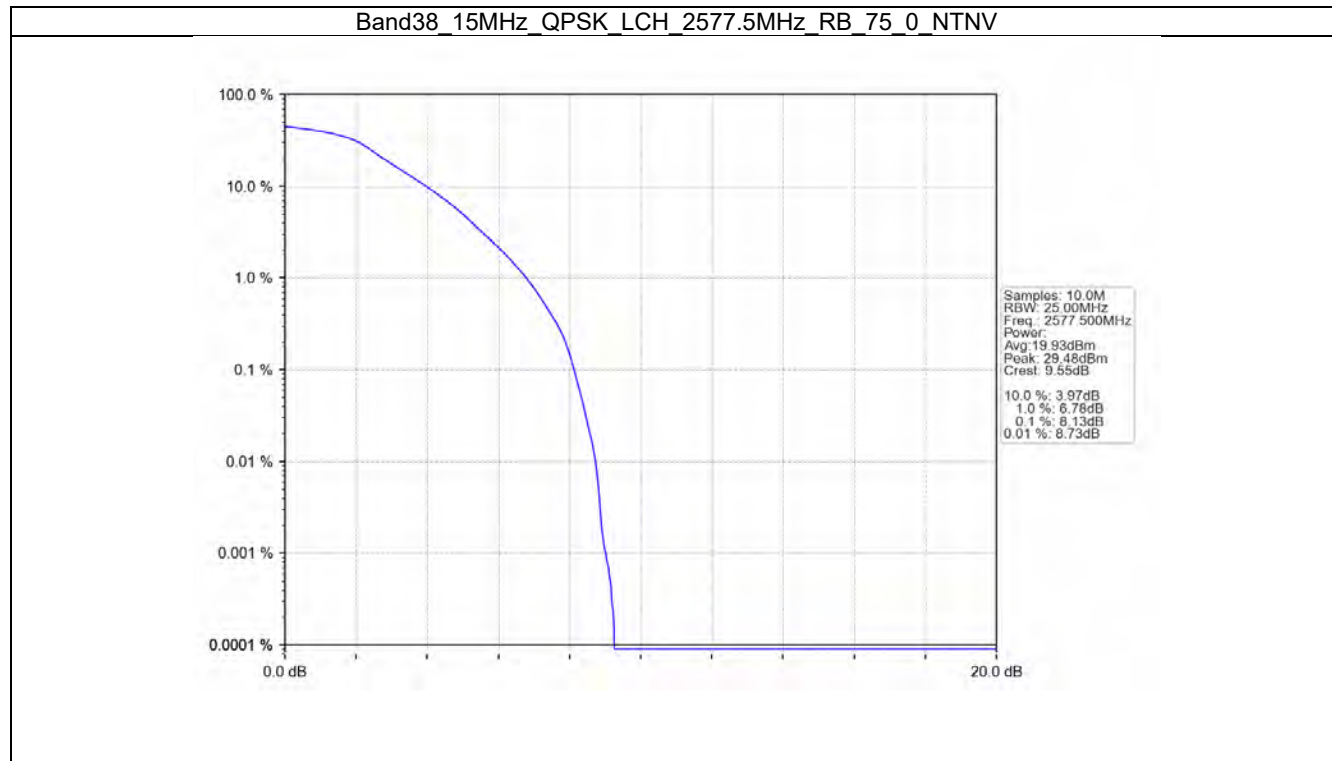
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Rev.: 01

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4.3.2 Test Graph



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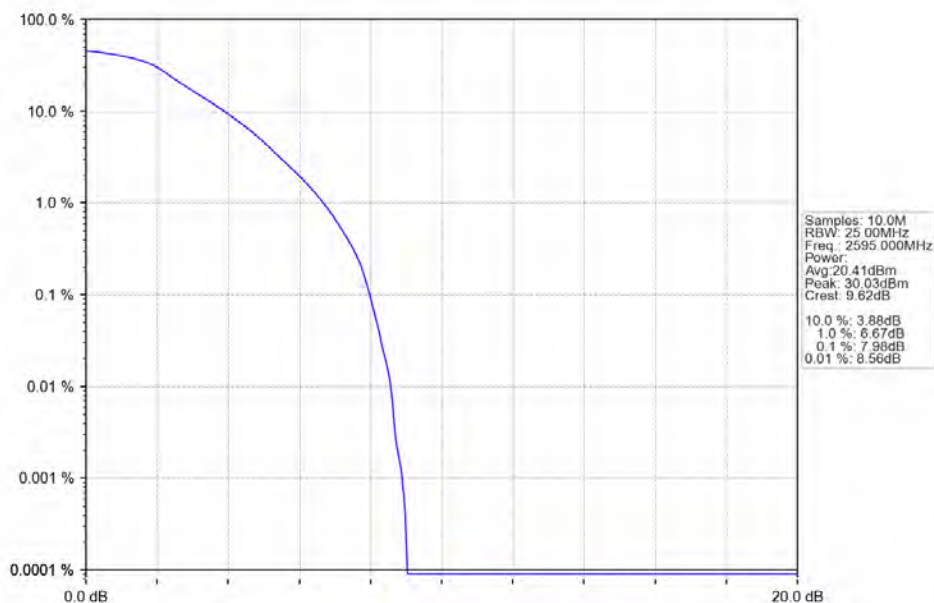
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Band38_15MHz_QPSK_MCH_2595MHz_RB_75_0_NTNV



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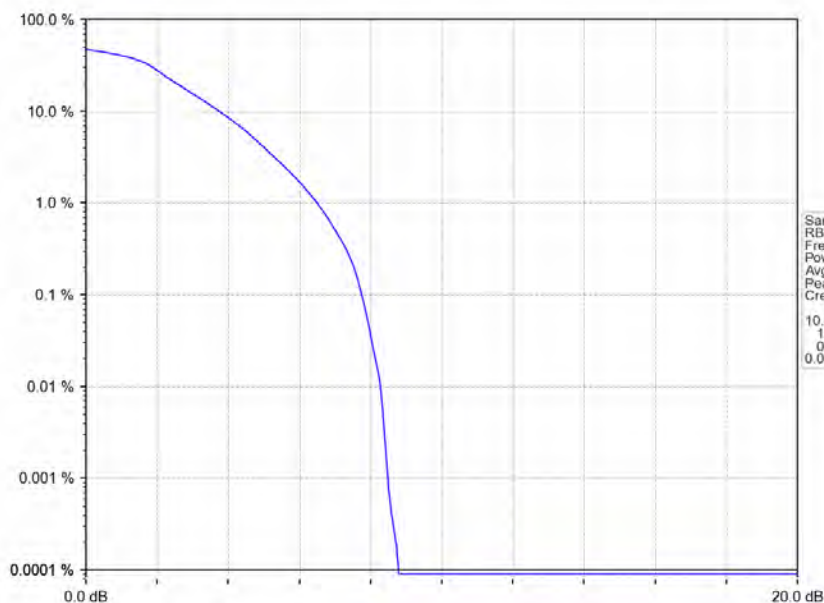
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Report No.: SUCR240400011301

Rev.: 01

Page: 79 of 148

Band38_15MHz_QPSK_HCH_2612.5MHz_RB_75_0_NTNV



Samples: 10.0M
RBW: 25.00MHz
Freq: 2612.500MHz
Power:
Avg: 20.54dBm
Peak: 37.63dBm
Crest: 17.09dB
10.0%: 3.74dB
1.0%: 6.49dB
0.1%: 7.75dB
0.01%: 8.28dB



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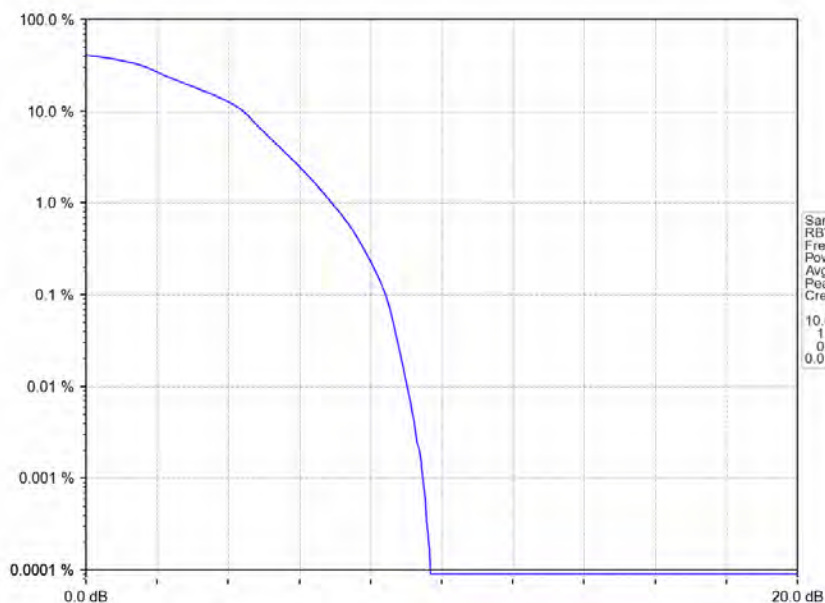
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Report No.: SUCR240400011301

Rev.: 01

Page: 80 of 148

Band38_15MHz_16QAM_LCH_2577.5MHz_RB_75_0_NTNV



Samples: 10.0M
RBW: 25.00MHz
Freq: 2577.500MHz
Power:
Avg: 19.32dBm
Peak: 29.43dBm
Crest: 10.11dB
10.0%: 4.42dB
1.0%: 6.91dB
0.1%: 8.42dB
0.01%: 9.03dB



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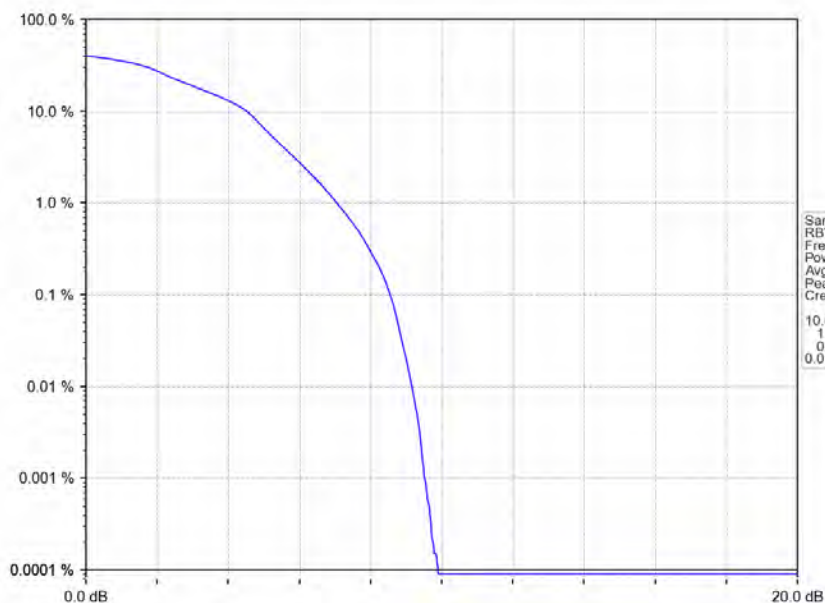
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Report No.: SUCR240400011301

Rev.: 01

Page: 81 of 148

Band38_15MHz_16QAM_MCH_2595MHz_RB_75_0_NTNV



Samples: 10.0M
RBW: 25.00MHz
Freq.: 2595.000MHz
Power:
Avg: 19.51dBm
Peak: 31.94dBm
Crest: 12.43dB
10.0%: 4.52dB
1.0%: 7.05dB
0.1%: 8.55dB
0.01%: 9.16dB



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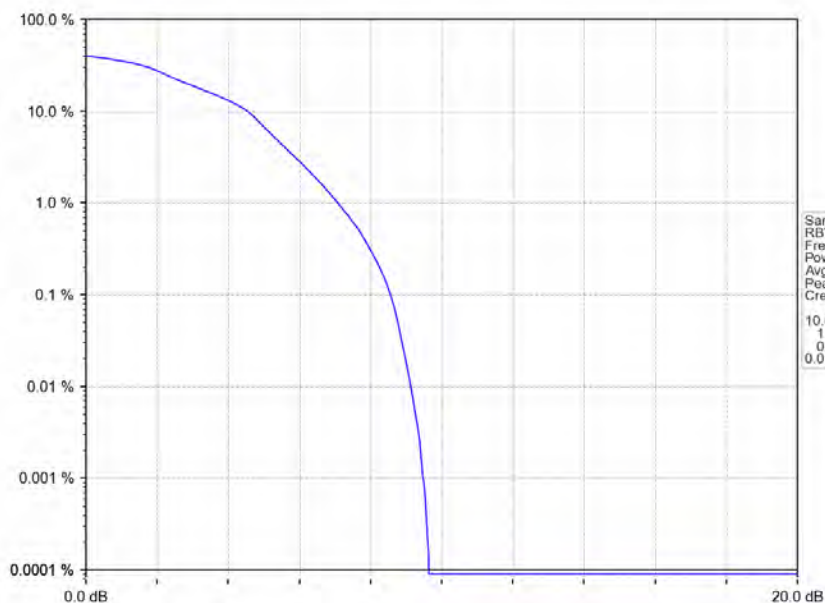
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Report No.: SUCR240400011301

Rev.: 01

Page: 82 of 148

Band38_15MHz_16QAM_HCH_2612.5MHz_RB_75_0_NTNV



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Report No.: SUCR240400011301

Rev.: 01

Page: 83 of 148

4.4 B38_20MHz

4.4.1 Test Result

Band: 38 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2580	100	0	7.78	<=13	Pass
	2595	100	0	7.61	<=13	Pass
	2610	100	0	7.68	<=13	Pass
16QAM	2580	100	0	8.25	<=13	Pass
	2595	100	0	8.23	<=13	Pass
	2610	100	0	8.47	<=13	Pass



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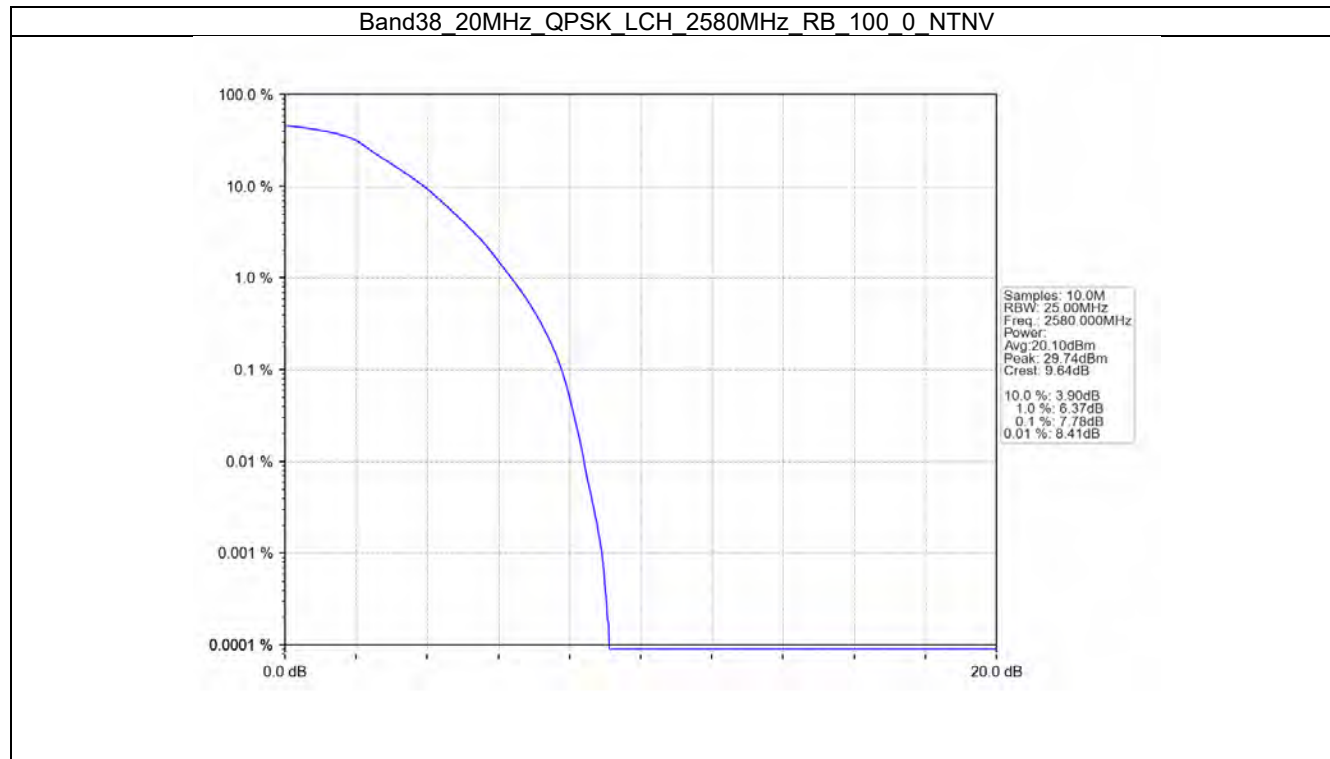
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Rev.: 01

Page: 84 of 148

4.4.2 Test Graph



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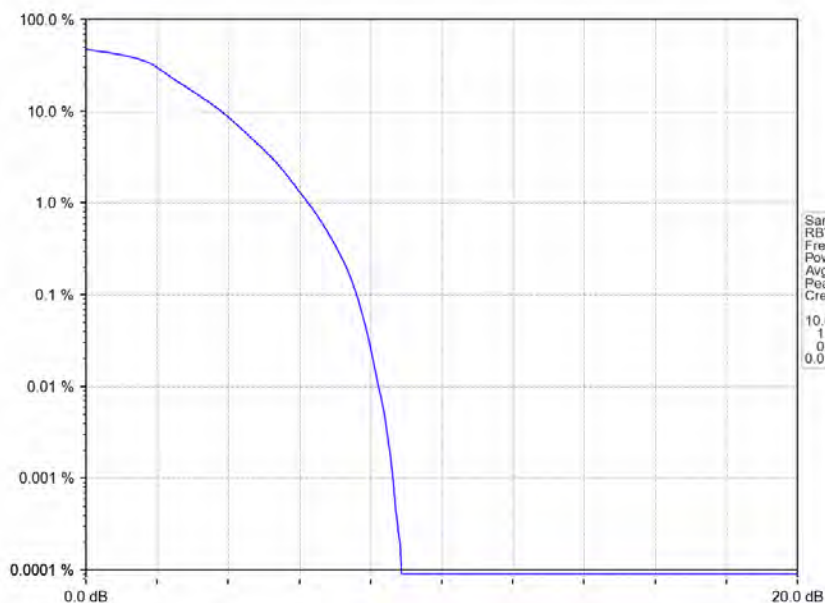
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Report No.: SUCR240400011301

Rev.: 01

Page: 85 of 148

Band38_20MHz_QPSK_MCH_2595MHz_RB_100_0_NTNV



Samples: 10.0M
RBW: 25.00MHz
Freq.: 2595.000MHz
Power:
Avg 20.52dBm
Peak: 32.22dBm
Crest: 11.70dB
10.0%: 3.80dB
1.0%: 6.25dB
0.1%: 7.61dB
0.01%: 8.22dB



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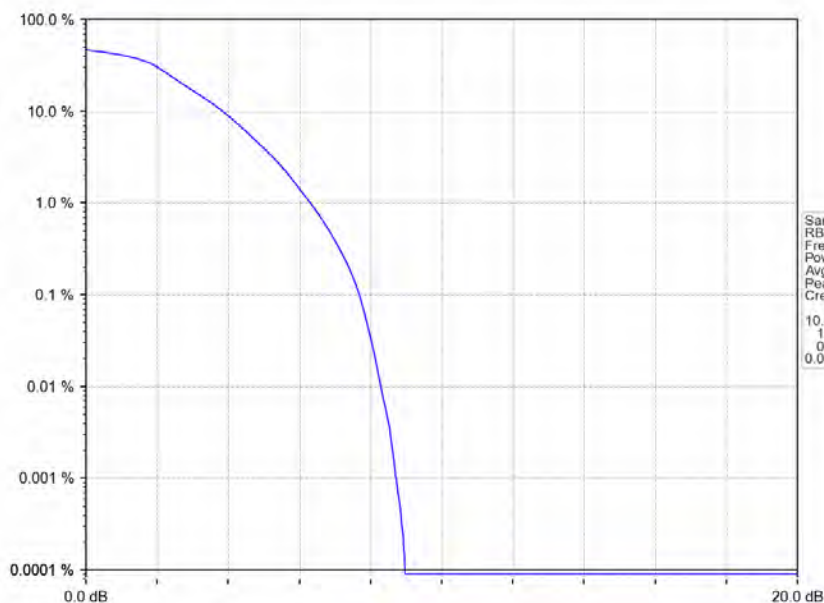
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Report No.: SUCR240400011301

Rev.: 01

Page: 86 of 148

Band38_20MHz_QPSK_HCH_2610MHz_RB_100_0_NTNV



Samples: 10.0M
RBW: 25.00MHz
Freq: 2610.000MHz
Power:
Avg: 20.43dBm
Peak: 31.65dBm
Crest: 11.22dB
10.0%: 3.84dB
1.0%: 6.31dB
0.1%: 7.68dB
0.01%: 8.29dB



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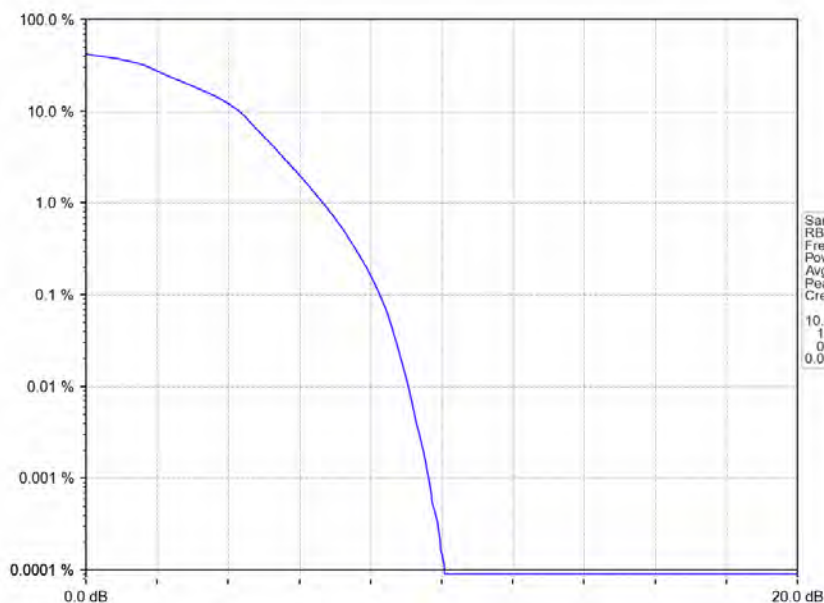
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Rev.: 01

Page: 87 of 148

Band38_20MHz_16QAM_LCH_2580MHz_RB_100_0_NTNV



Samples: 10.0M
RBW: 25.00MHz
Freq.: 2580.000MHz
Power:
Avg: 19.43dBm
Peak: 39.67dBm
Crest: 20.24dB
10.0%: 4.31dB
1.0%: 6.66dB
0.1%: 8.25dB
0.01%: 9.06dB



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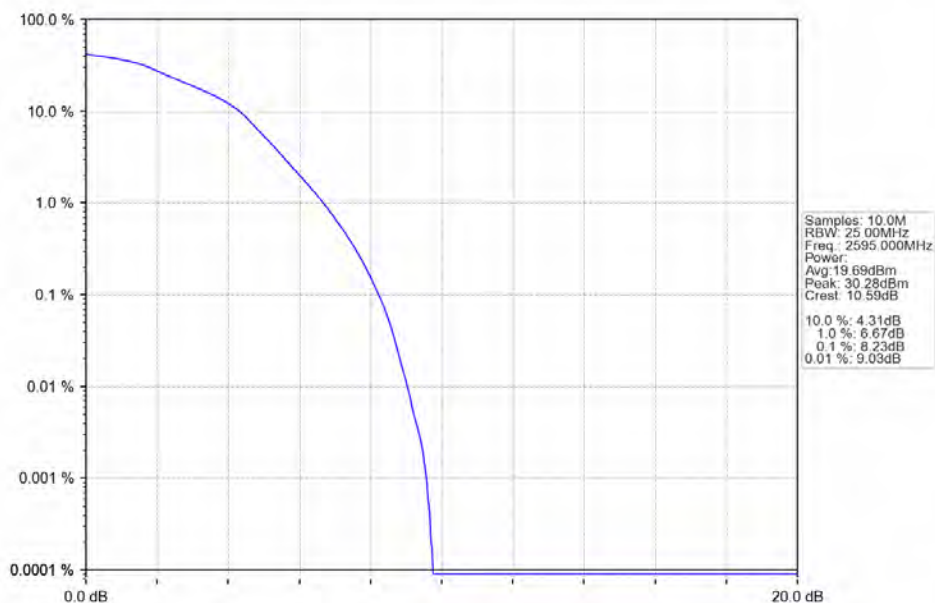
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Band38_20MHz_16QAM_MCH_2595MHz_RB_100_0_NTNV



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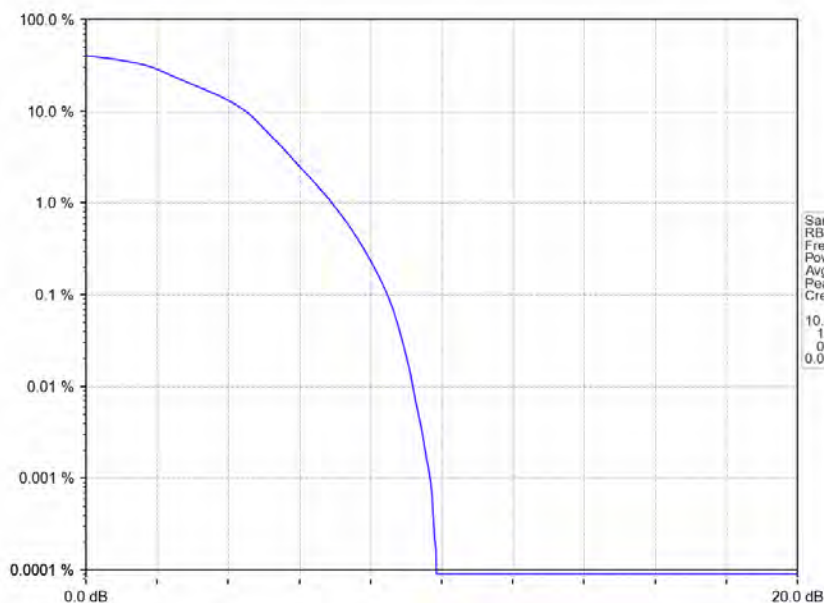
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Rev.: 01

Page: 89 of 148

Band38_20MHz_16QAM_HCH_2610MHz_RB_100_0_NTNV



Samples: 10.0M
RBW: 25.00MHz
Freq: 2610.000MHz
Power:
Avg: 19.40dBm
Peak: 30.20dBm
Crest: 10.80dB
10.0 %: 4.49dB
1.0 %: 6.91dB
0.1 %: 6.47dB
0.01 %: 9.19dB



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Report No.: SUCR240400011301

Rev.: 01

Page: 90 of 148

5. Spurious Emission & Band Edge

5.1 B38_5MHz

5.1.1 Test Result

Band: 38 / Bandwidth: 5MHz / NTN					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	2572.5	1	0	Refer To Test Graph	Pass
		25	0	Refer To Test Graph	Pass
	2595	1	0	Refer To Test Graph	Pass
	2617.5	1	0	Refer To Test Graph	Pass
			24	Refer To Test Graph	Pass
		25	0	Refer To Test Graph	Pass



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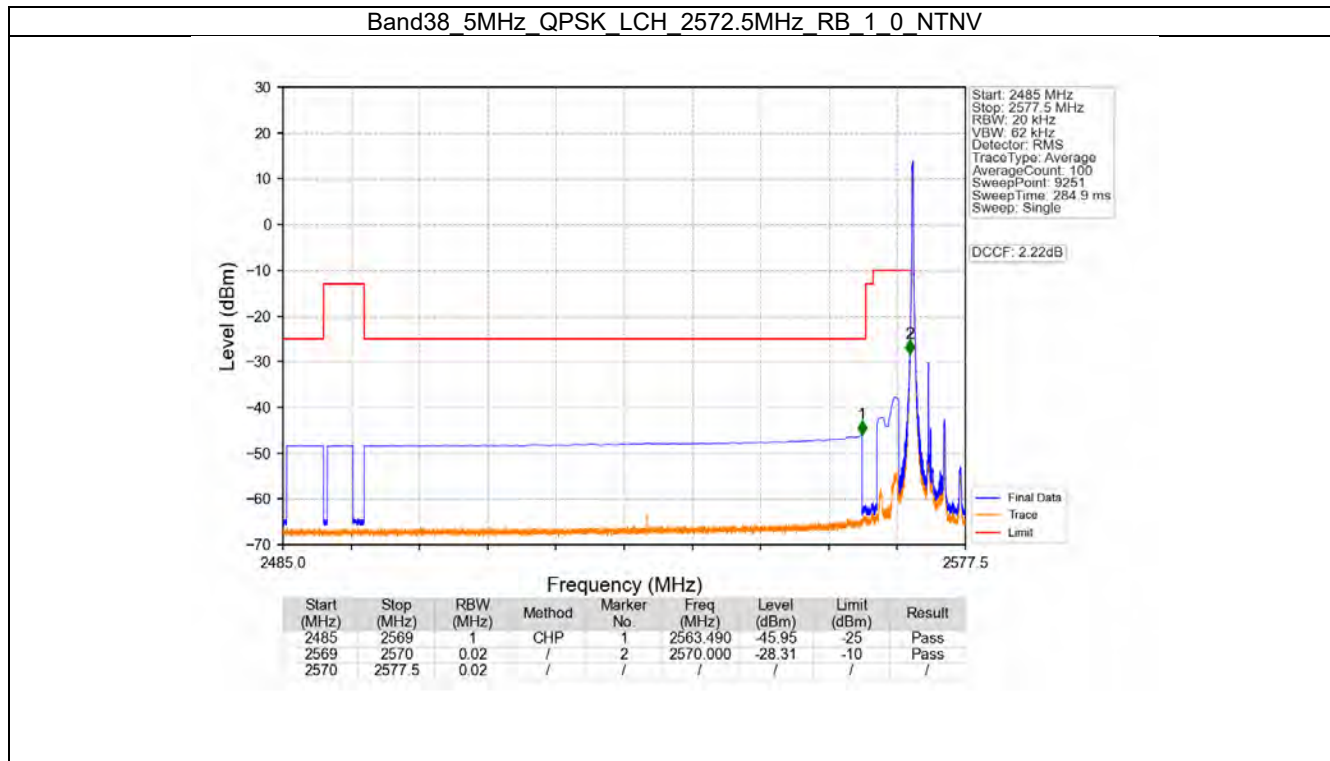
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Rev.: 01

Page: 91 of 148

5.1.2 Test Graph



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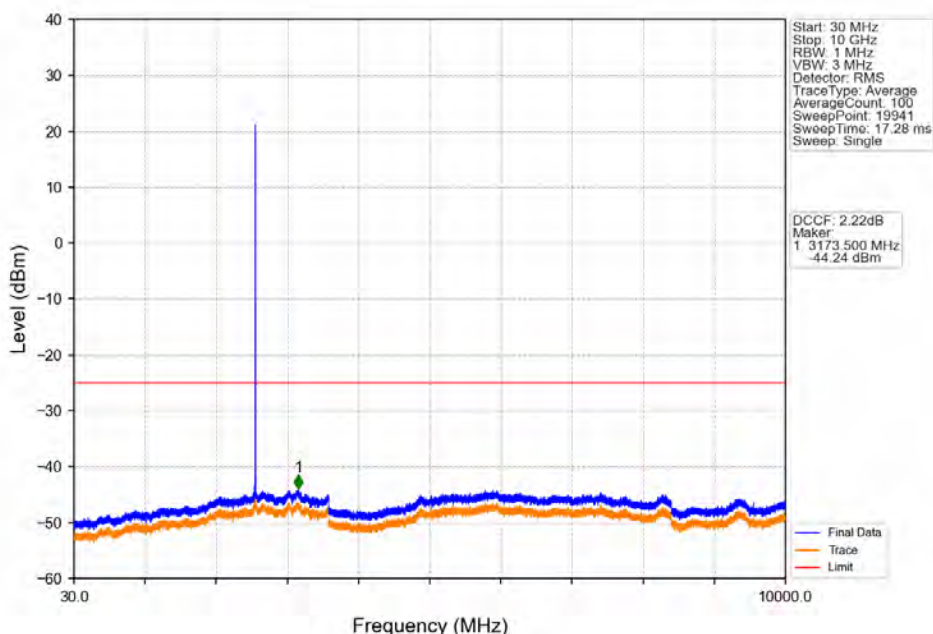
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Report No.: SUCR240400011301

Rev.: 01

Page: 92 of 148

Band38_5MHz_QPSK_LCH_2572.5MHz_RB_1_0_NTNV



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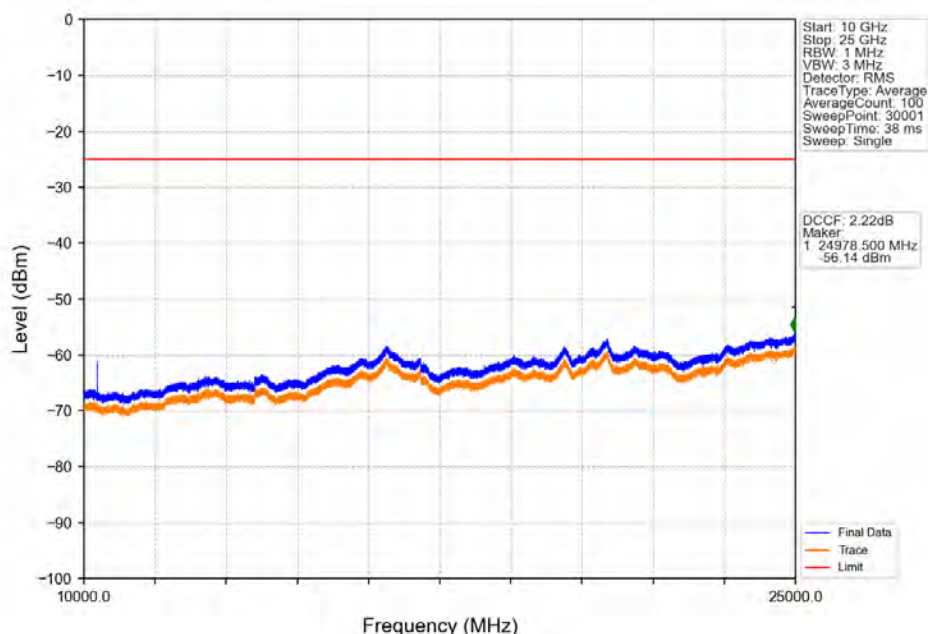
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Report No.: SUCR240400011301

Rev.: 01

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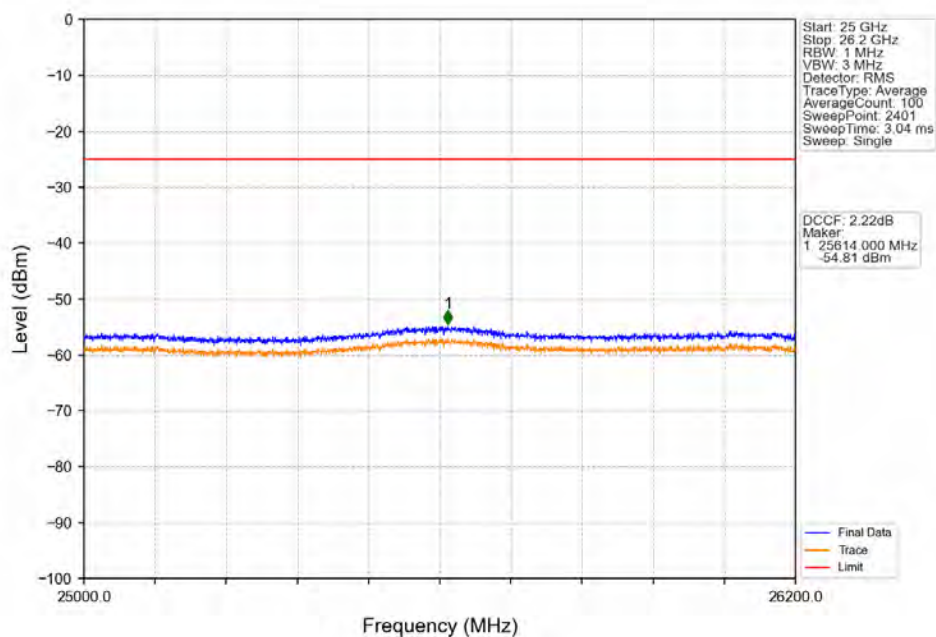
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Report No.: SUCR240400011301

Rev.: 01

Page: 94 of 148

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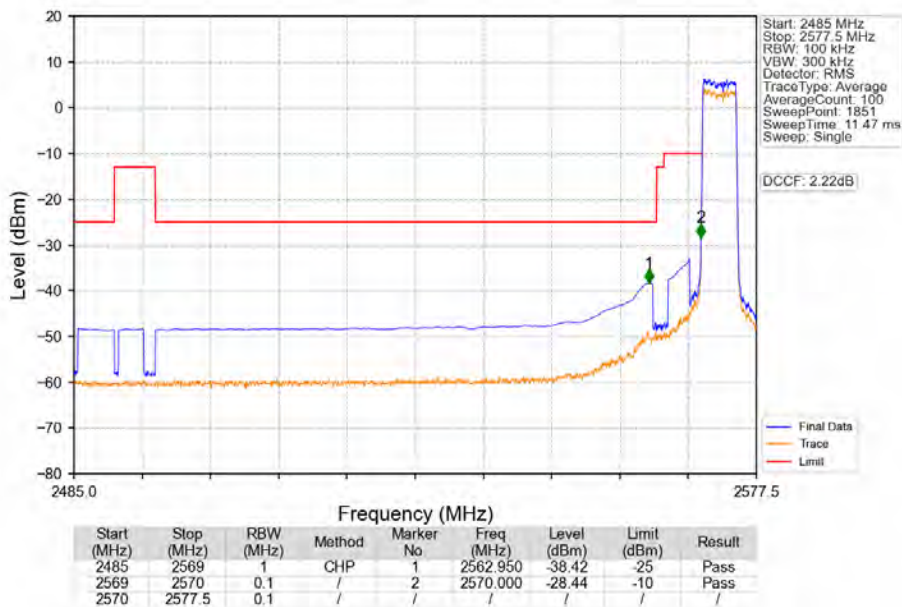
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Report No.: SUCR240400011301

Rev.: 01

Page: 95 of 148

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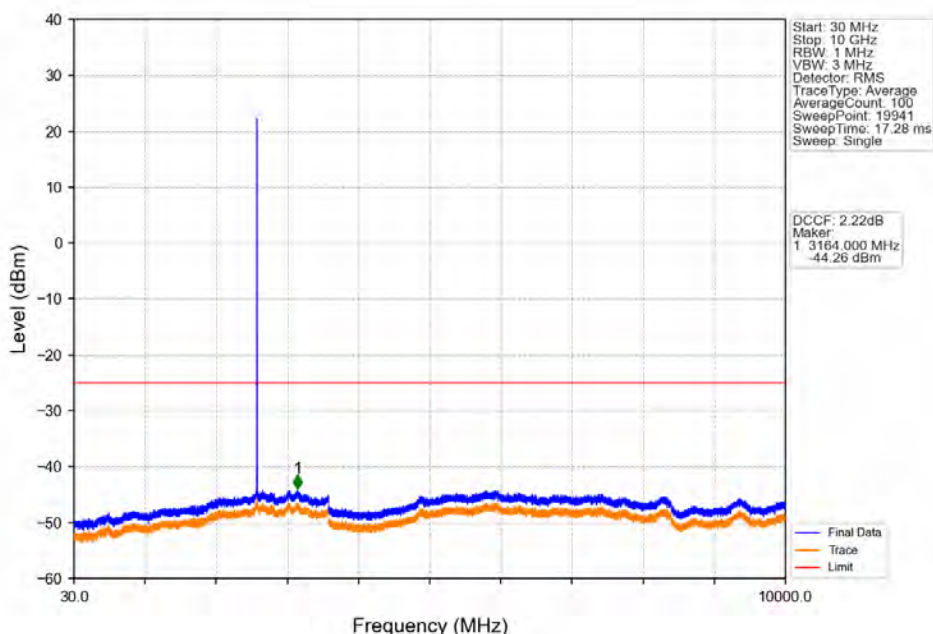
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Report No.: SUCR240400011301

Rev.: 01

Page: 96 of 148

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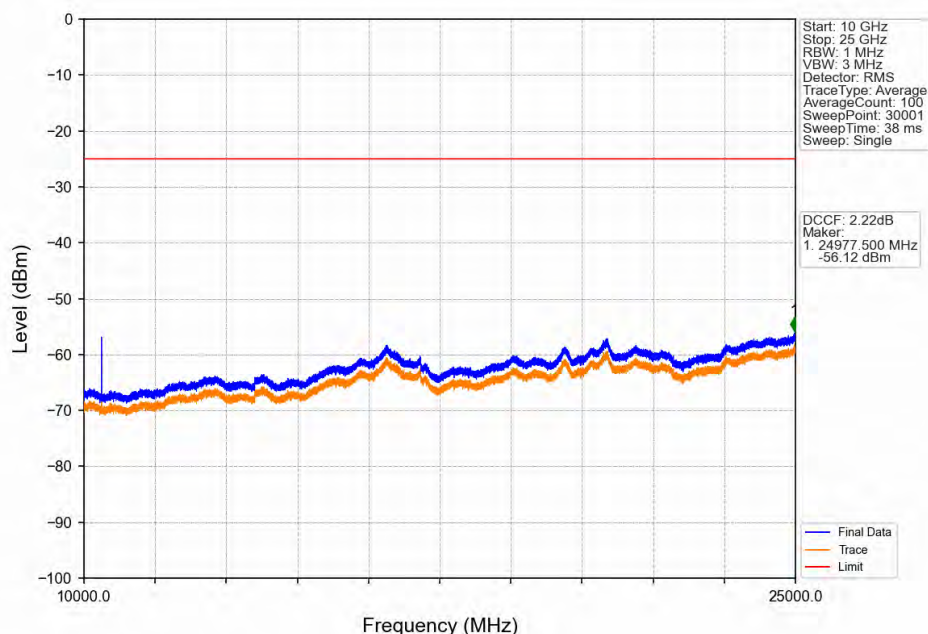
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Page: 97 of 148

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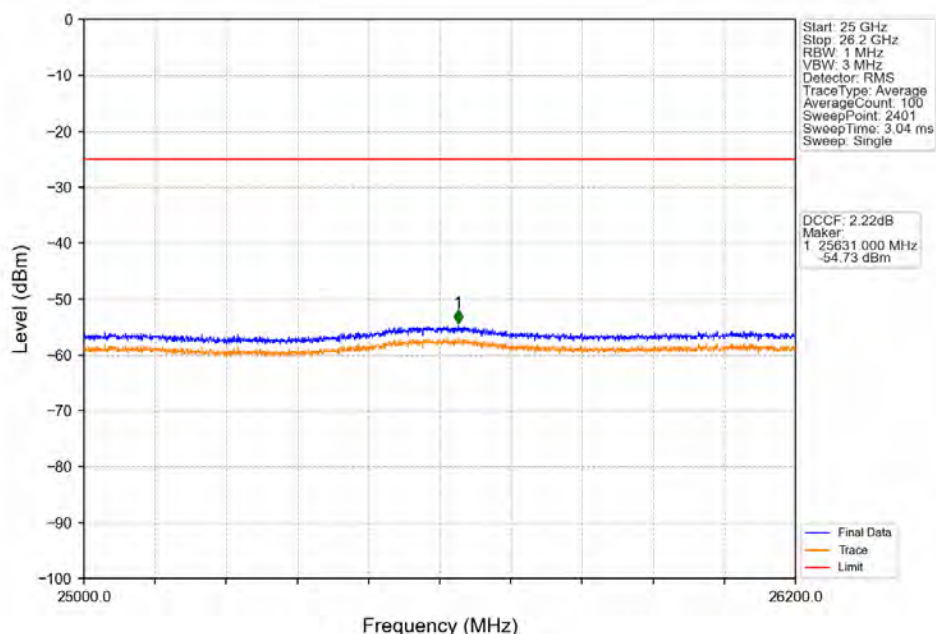
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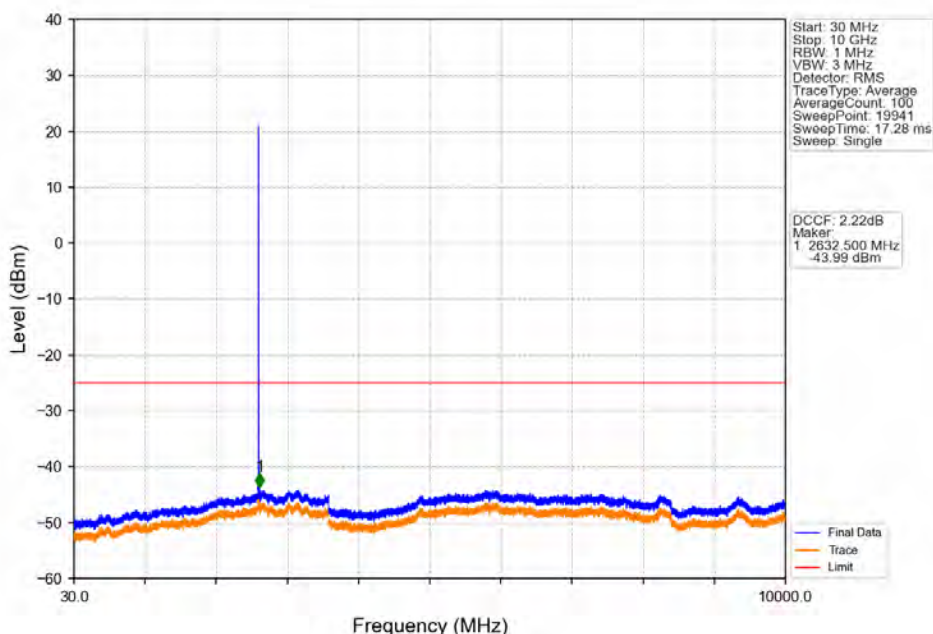
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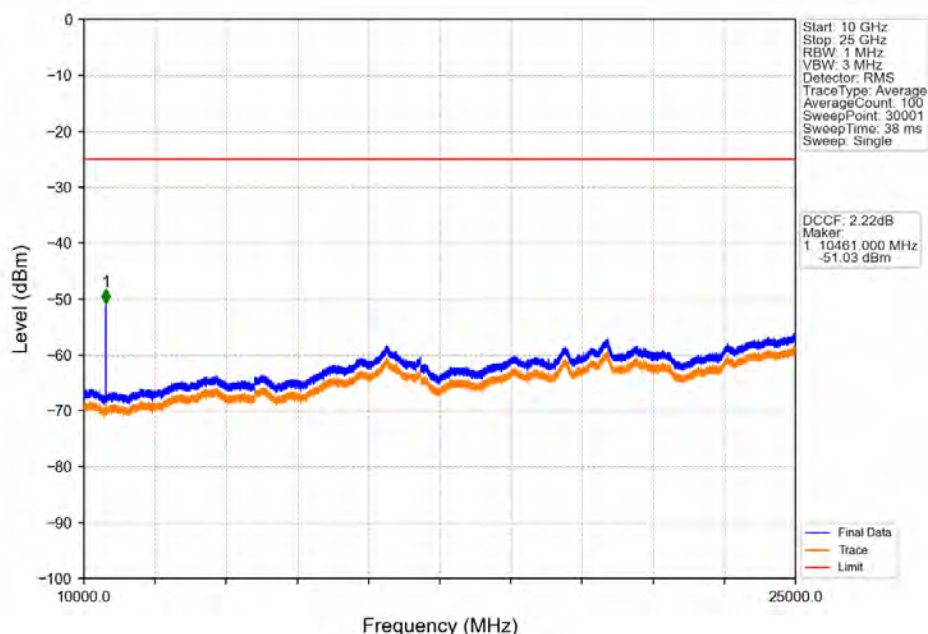
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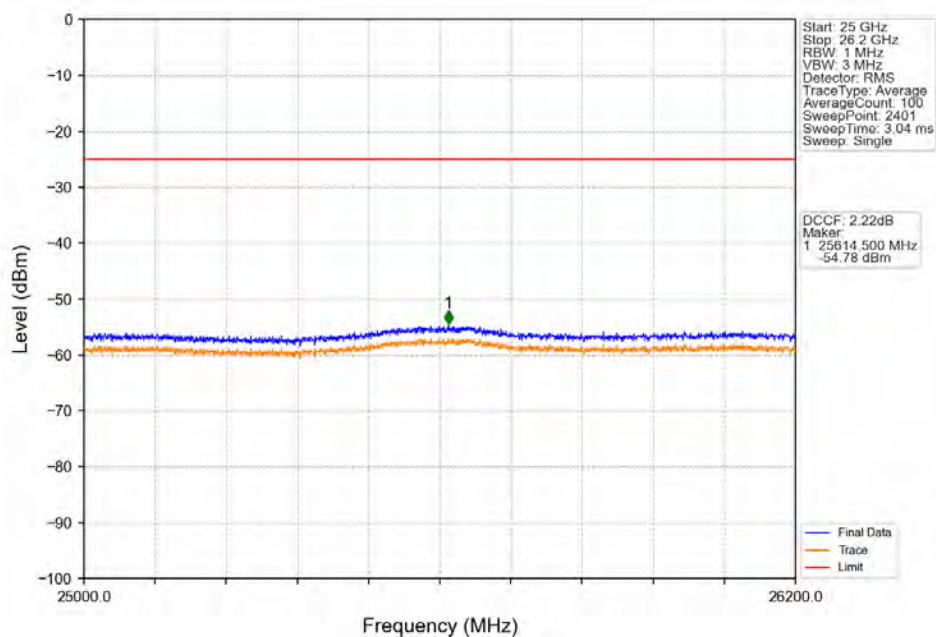
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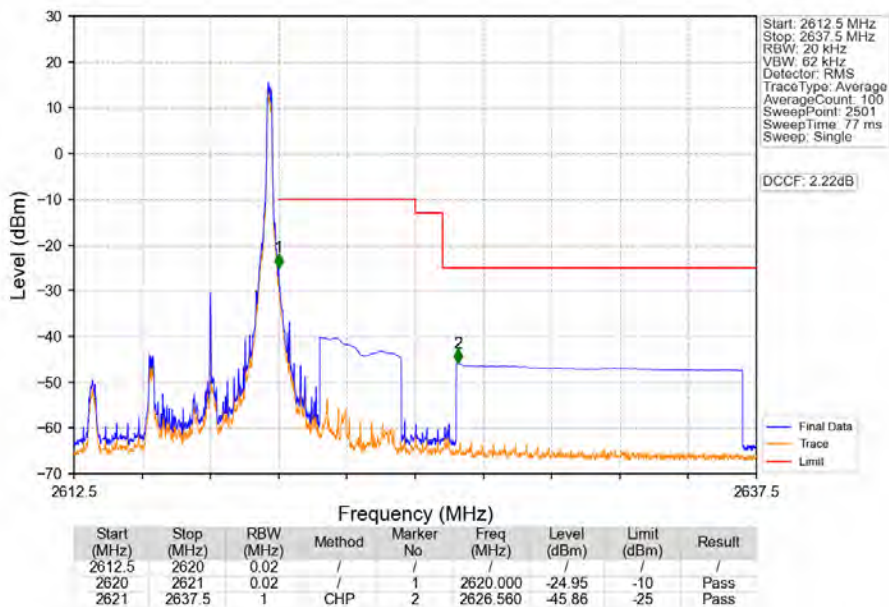
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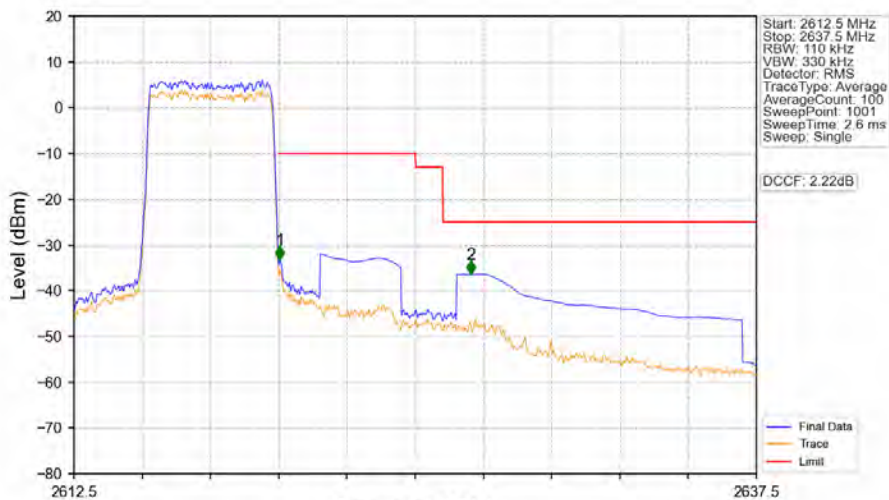
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Report No.: SUCR240400011301

Rev.: 01

Page: 103 of 148

Band38_5MHz_QPSK_HCH_2617.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2612.5	2620	0.11	/	/	/	/	/	/
2620	2621	0.11	/	1	2620.050	-33.31	-10	Pass
2621	2637.5	1	CHP	2	2627.050	-36.40	-25	Pass



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Report No.: SUCR240400011301

Rev.: 01

Page: 104 of 148

5.2 B38_10MHz

5.2.1 Test Result

Band: 38 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2575	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	2595	1	0	Refer To Test Graph		Pass
	2615	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass



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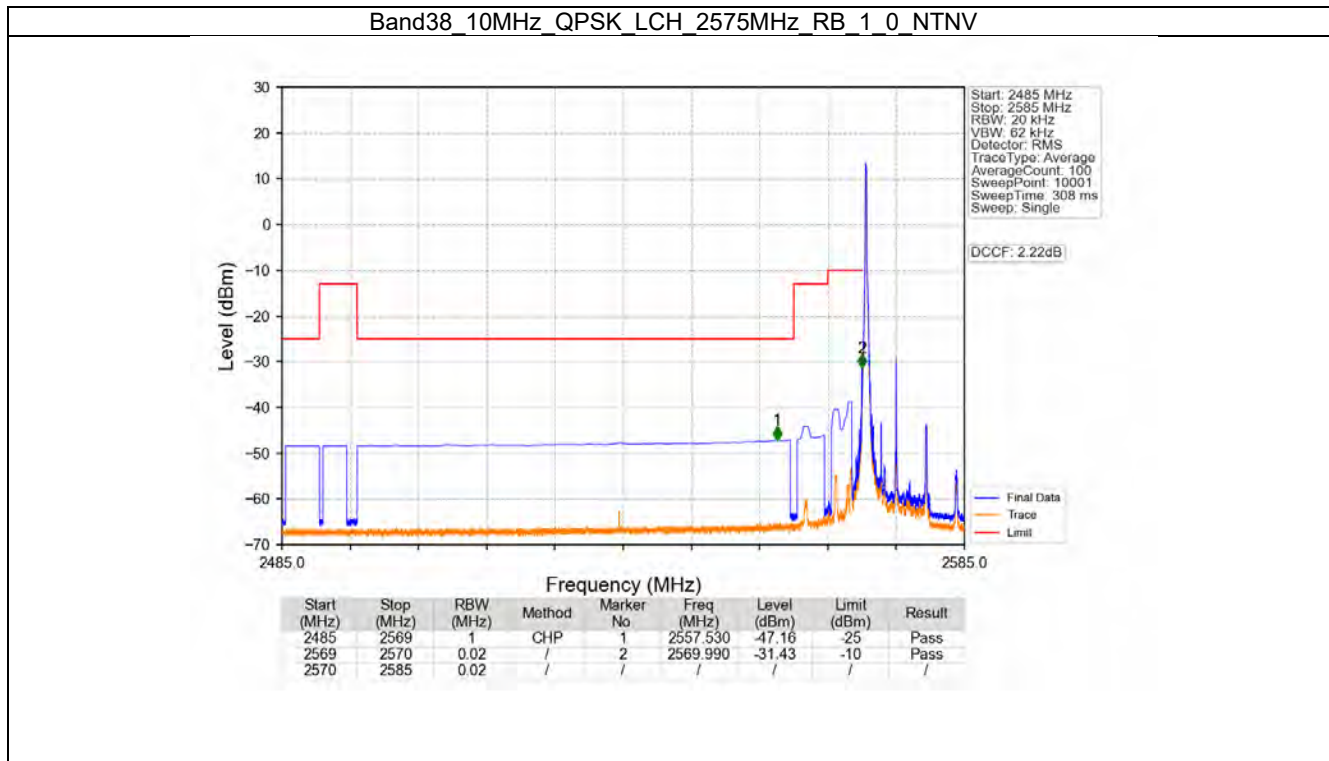
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Rev.: 01

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5.2.2 Test Graph



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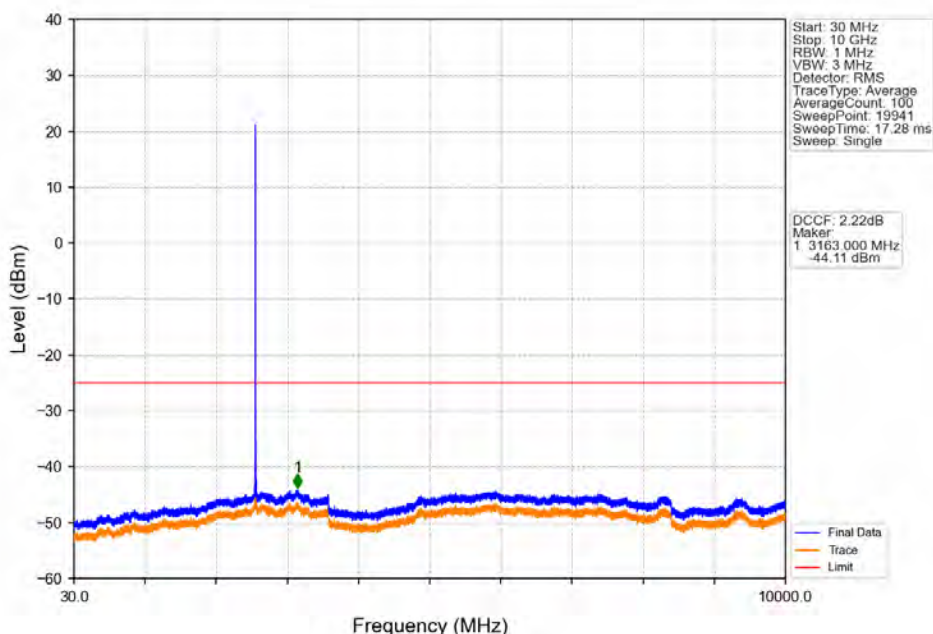
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Report No.: SUCR240400011301

Rev.: 01

Page: 106 of 148

Band38_10MHz_QPSK_LCH_2575MHz_RB_1_0_NTNV



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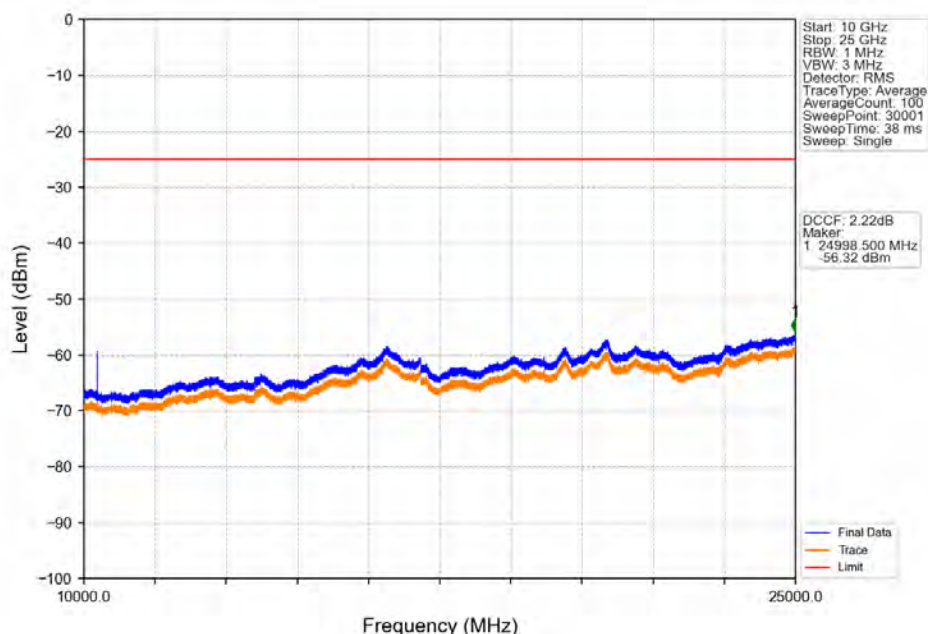
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Report No.: SUCR240400011301

Rev.: 01

Page: 107 of 148

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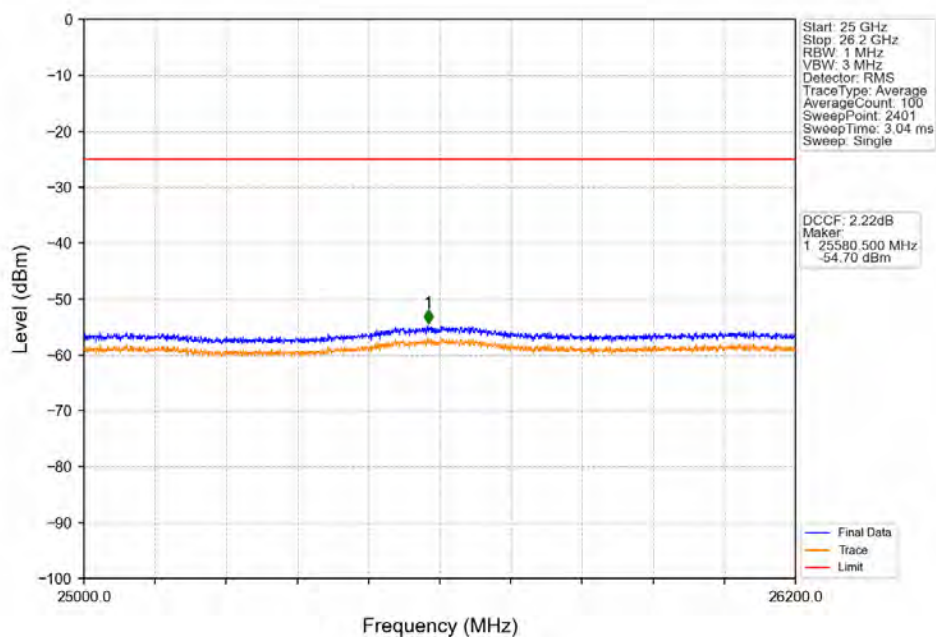
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Report No.: SUCR240400011301

Rev.: 01

Page: 108 of 148

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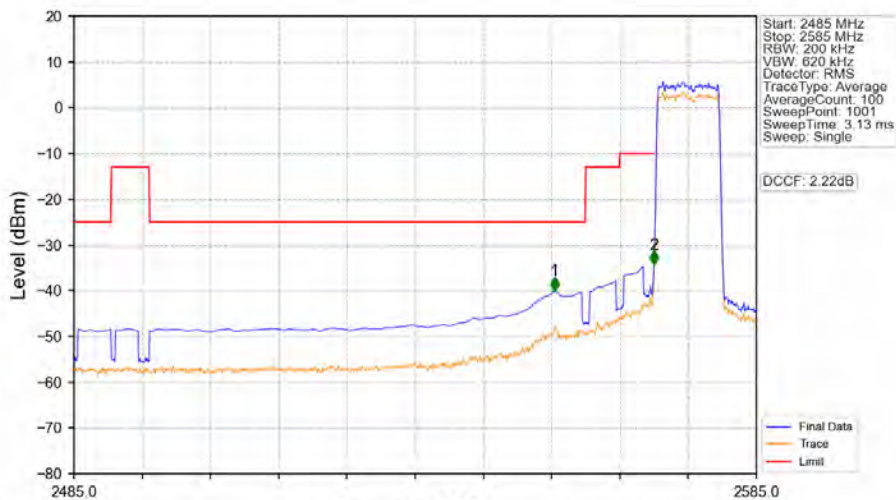
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Report No.: SUCR240400011301

Rev.: 01

Page: 109 of 148

Band38_10MHz_QPSK_LCH_2575MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2569	1	CHP	1	2555.400	-40.08	-25	Pass
2569	2570	0.2	/	2	2570.000	-34.36	-10	Pass
2570	2585	0.2	/	/	/	/	/	/



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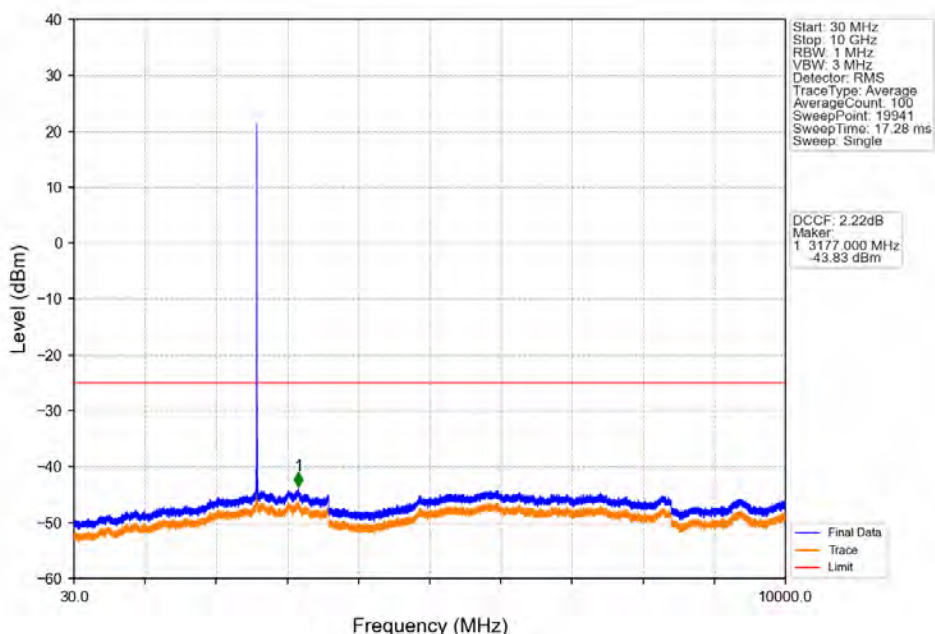
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Report No.: SUCR240400011301

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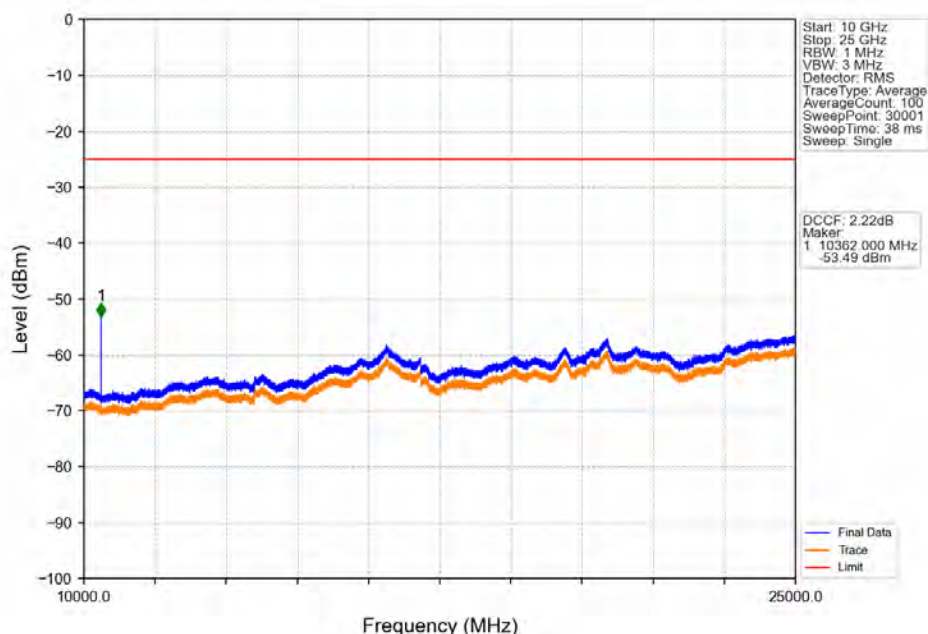
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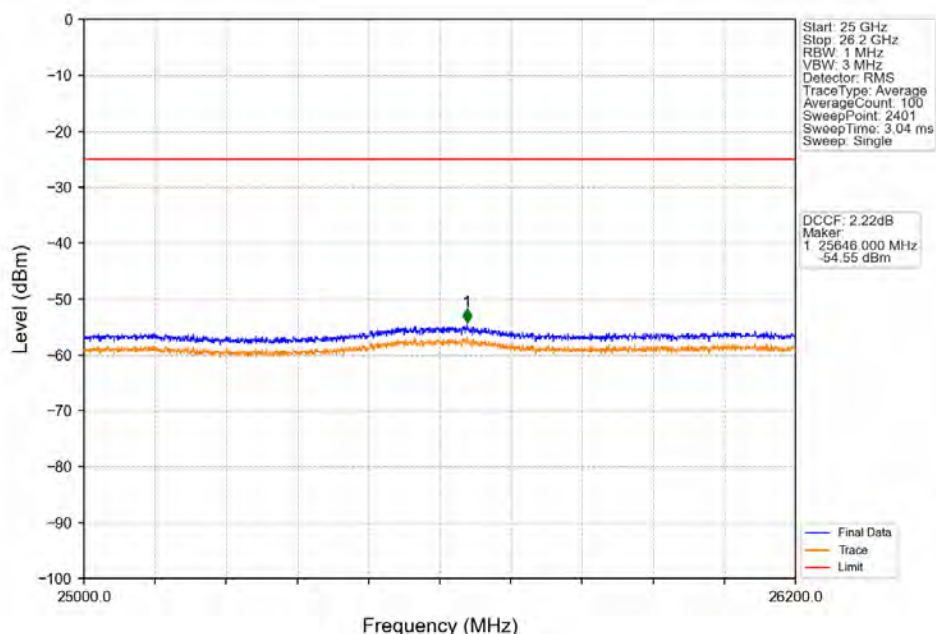
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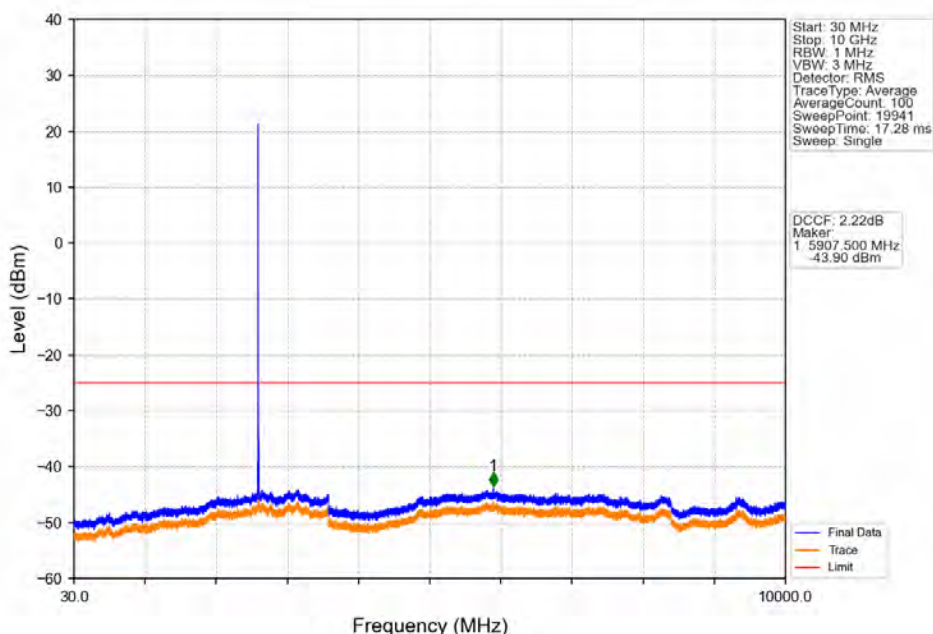
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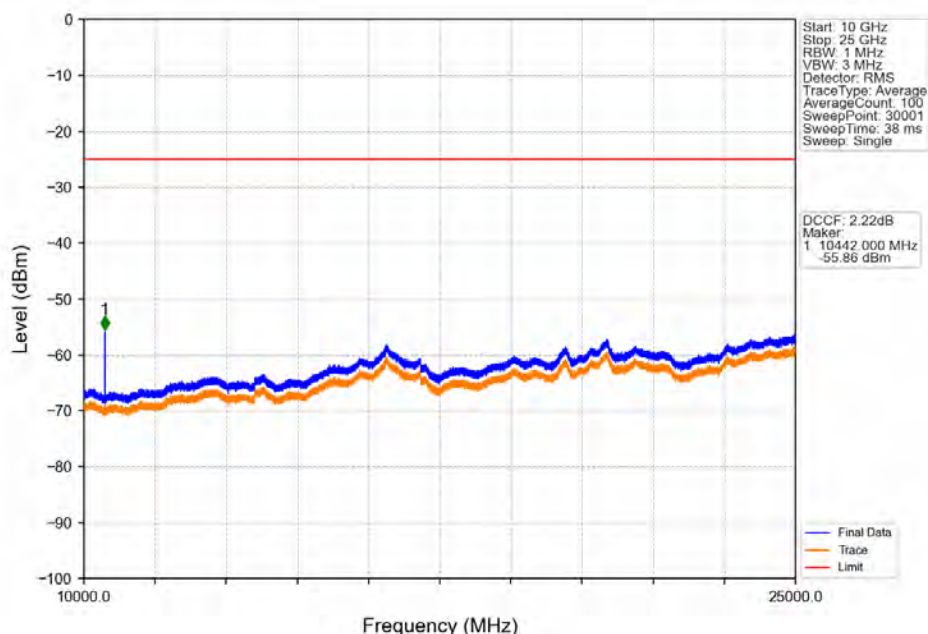
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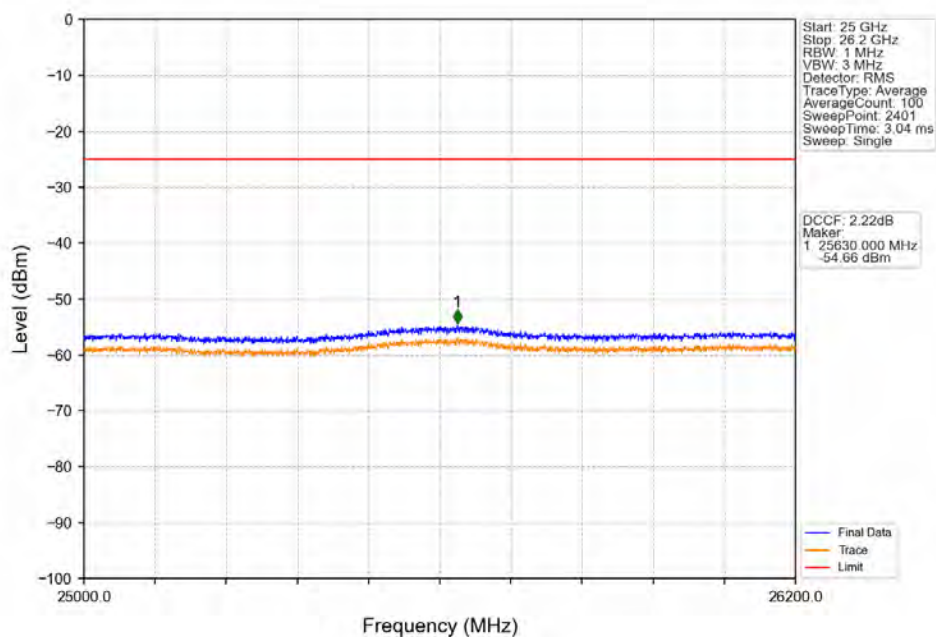
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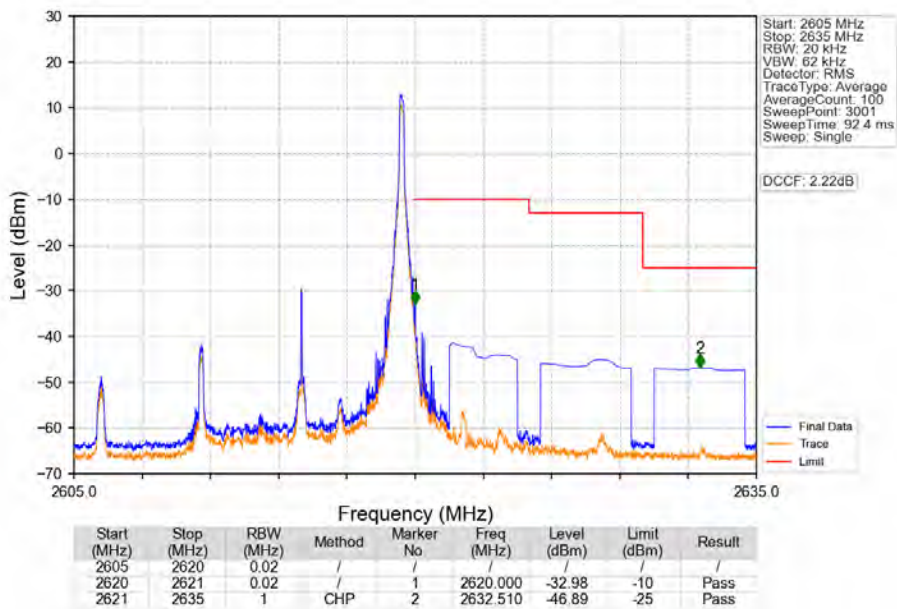
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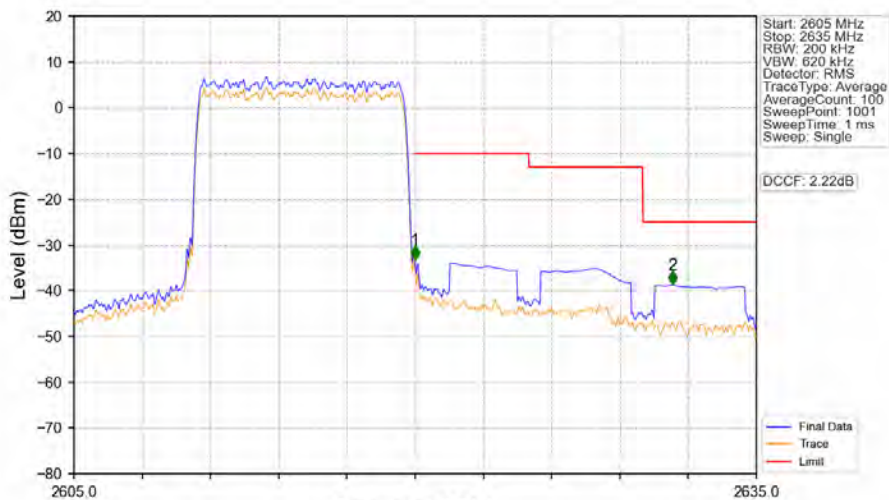
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Report No.: SUCR240400011301

Rev.: 01

Page: 117 of 148

Band38_10MHz_QPSK_HCH_2615MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2605	2620	0.2	/	1	2620.000	-33.29	-10	Pass
2621	2635	1	CHP	2	2631.310	-38.78	-25	Pass



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Rev.: 01

Page: 118 of 148

5.3 B38_15MHz

5.3.1 Test Result

Band: 38 / Bandwidth: 15MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	2577.5	1	0	Refer To Test Graph	Pass
		75	0	Refer To Test Graph	Pass
	2595	1	0	Refer To Test Graph	Pass
	2612.5	1	0	Refer To Test Graph	Pass
			74	Refer To Test Graph	Pass
		75	0	Refer To Test Graph	Pass



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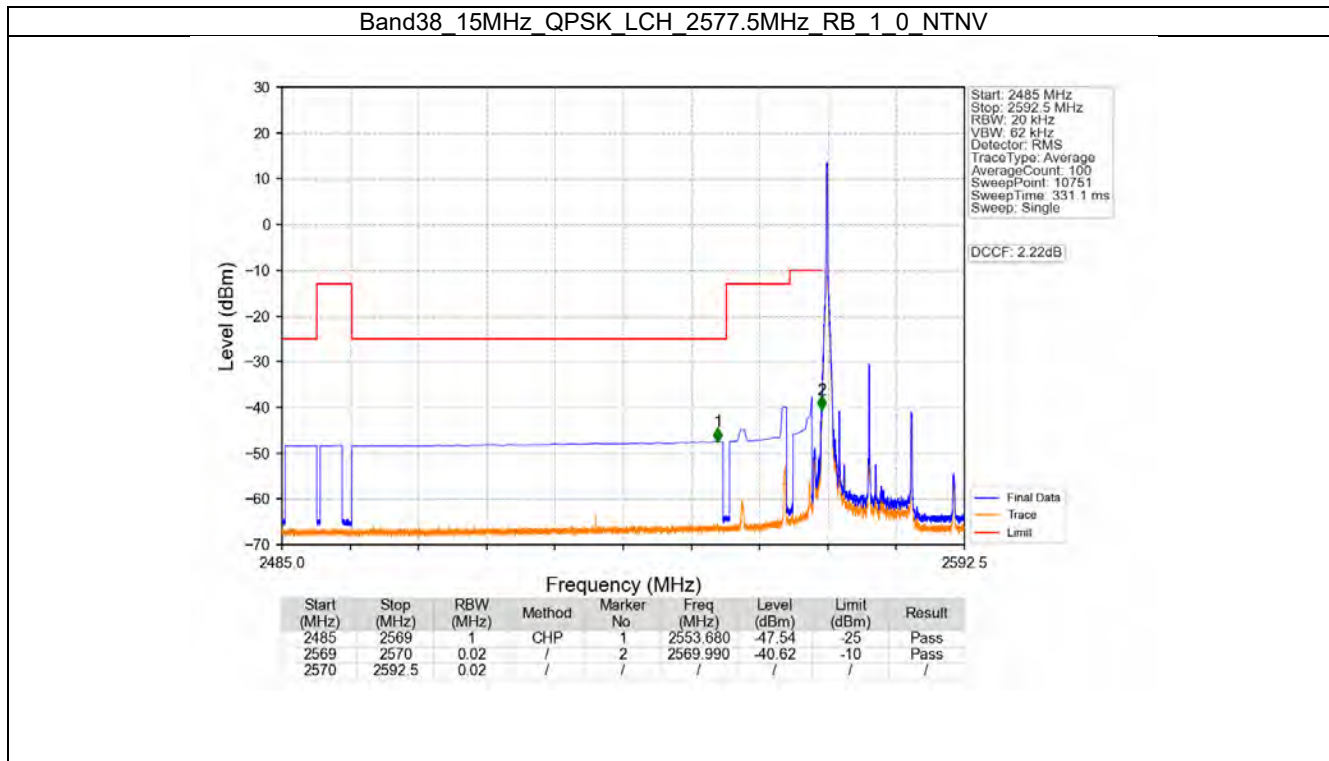
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Report No.: SUCR240400011301

Rev.: 01

Page: 119 of 148

5.3.2 Test Graph



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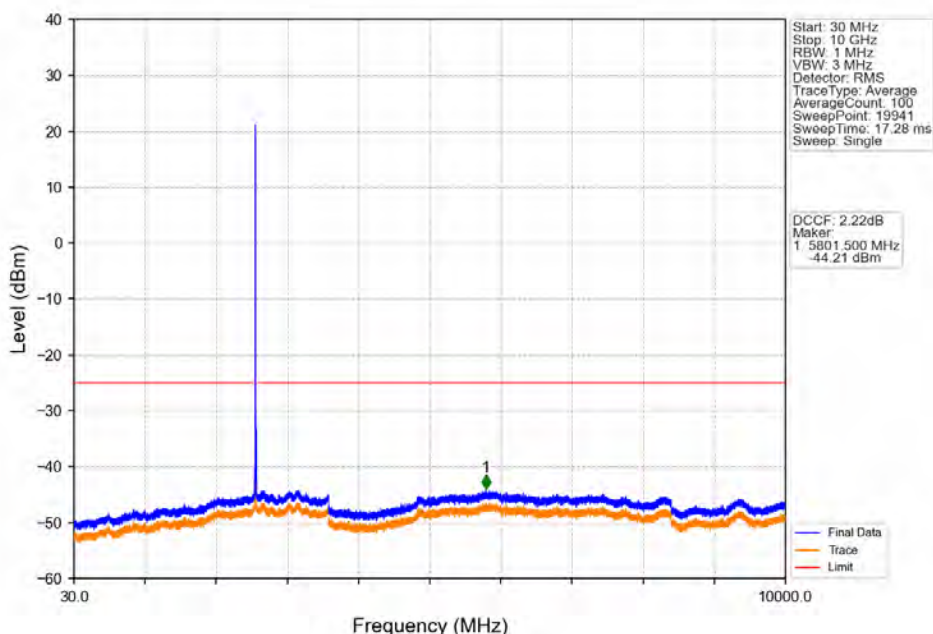
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Report No.: SUCR240400011301

Rev.: 01

Page: 120 of 148

Band38_15MHz_QPSK_LCH_2577.5MHz_RB_1_0_NTNV



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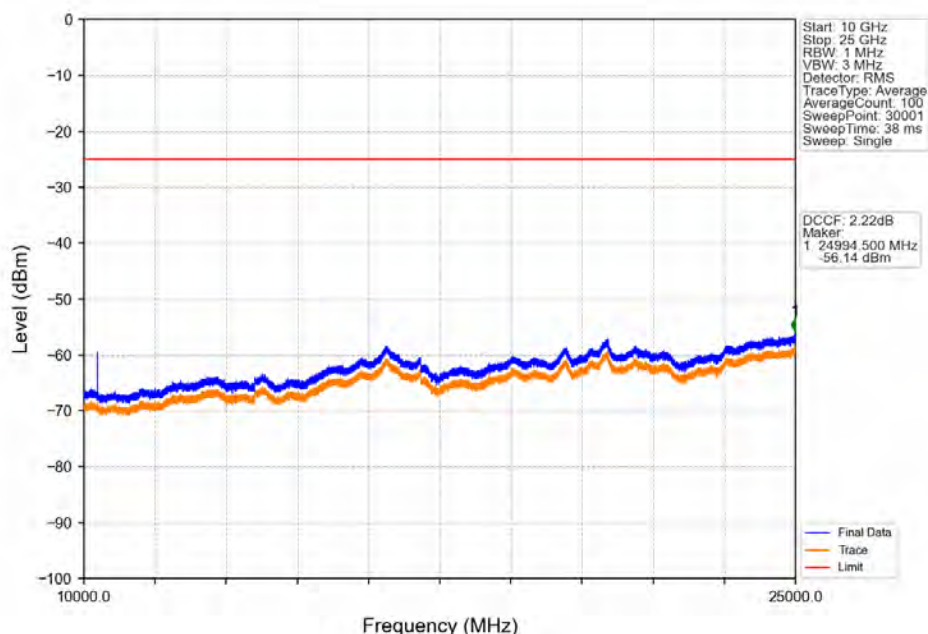
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Report No.: SUCR240400011301

Rev.: 01

Page: 121 of 148

Band38_15MHz_QPSK_LCH_2577.5MHz_RB_1_0_NTNV



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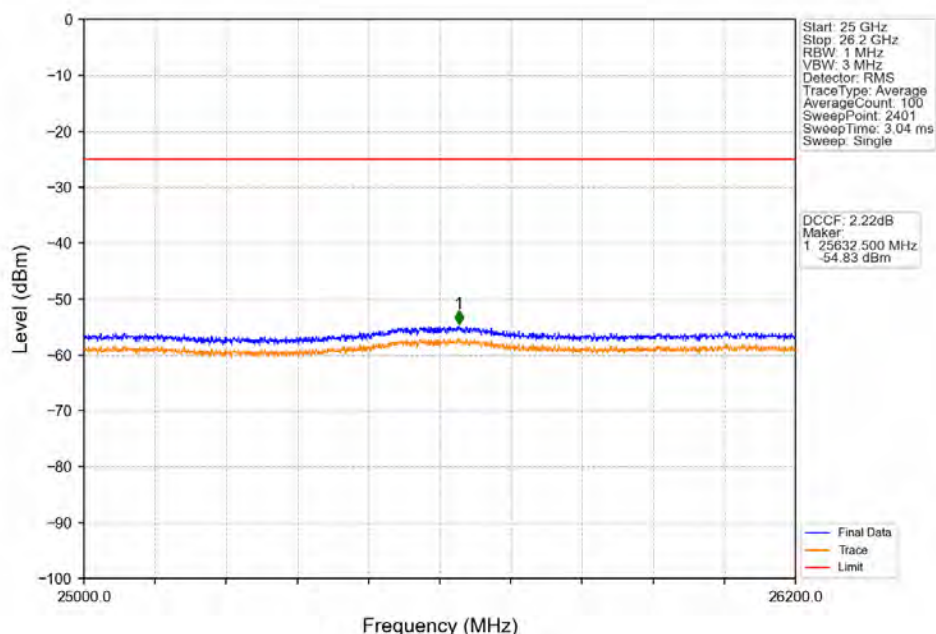
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Report No.: SUCR240400011301

Rev.: 01

Page: 122 of 148

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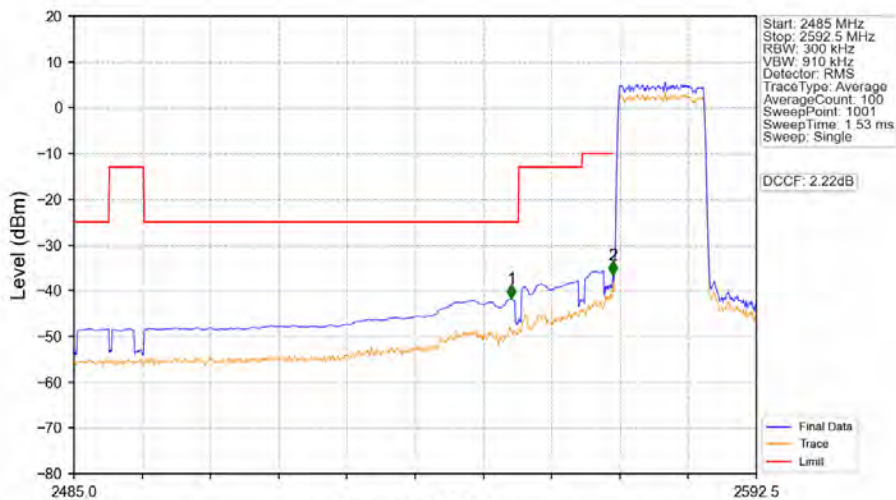
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Report No.: SUCR240400011301

Rev.: 01

Page: 123 of 148

Band38_15MHz_QPSK_LCH_2577.5MHz_RB_75_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2569	1	CHP	1	2553.907	-41.78	-25	Pass
2569	2570	0.3	/	2	2569.925	-36.58	-10	Pass
2570	2592.5	0.3	/	/	/	/	/	/



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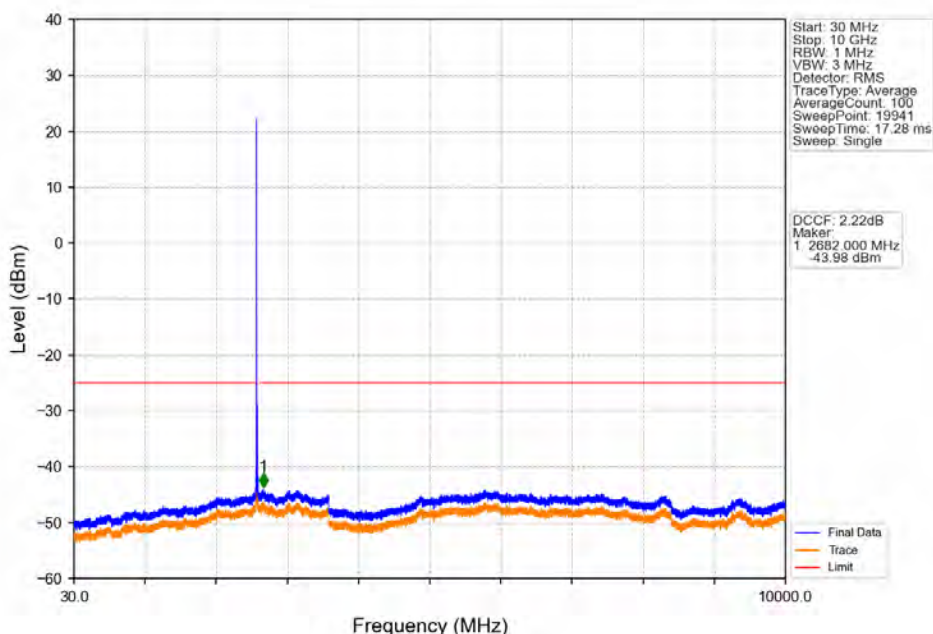
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Band38_15MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV



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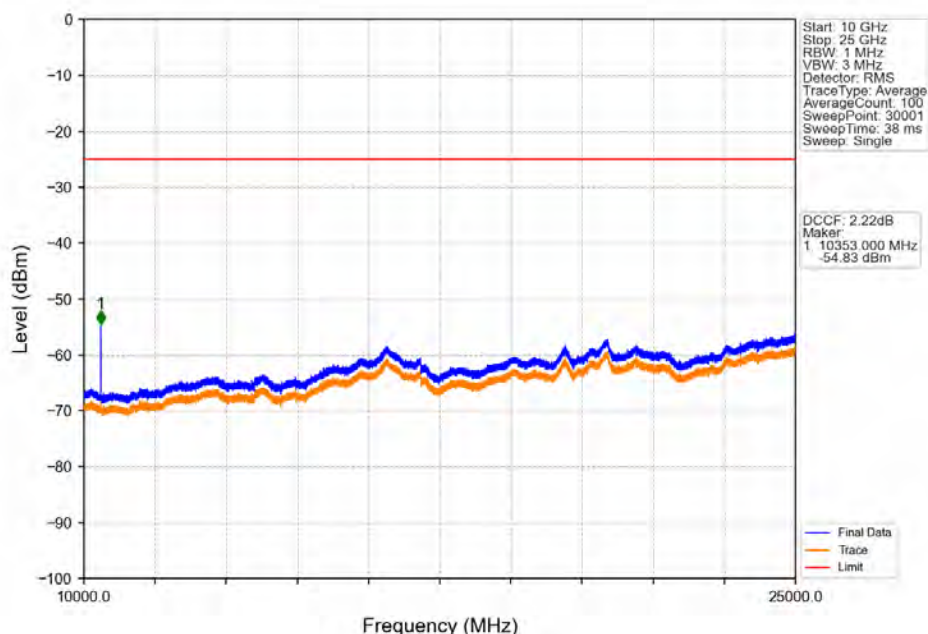
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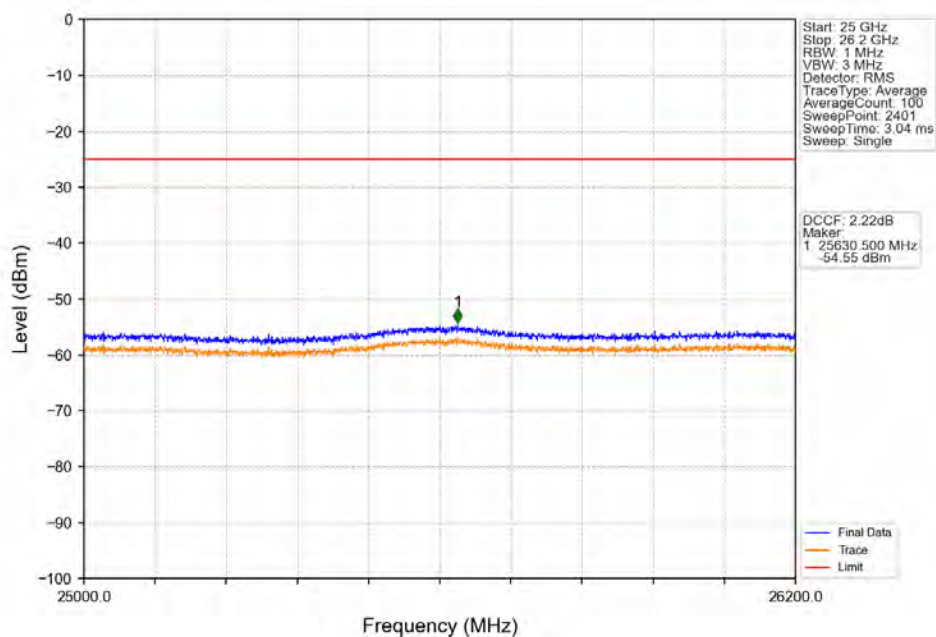
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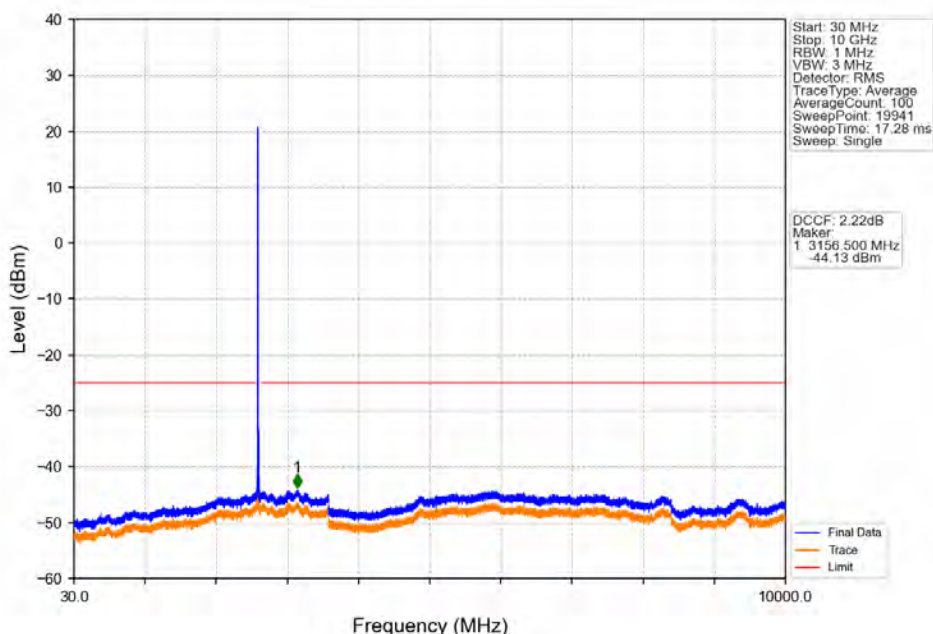
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Band38_15MHz_QPSK_HCH_2612.5MHz_RB_1_0_NTNV



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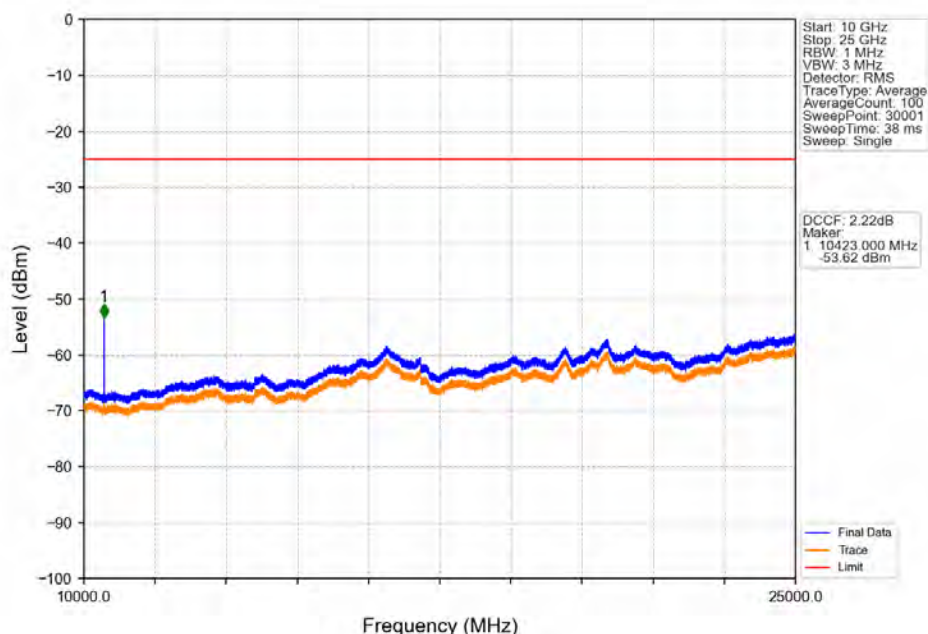
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Rev.: 01

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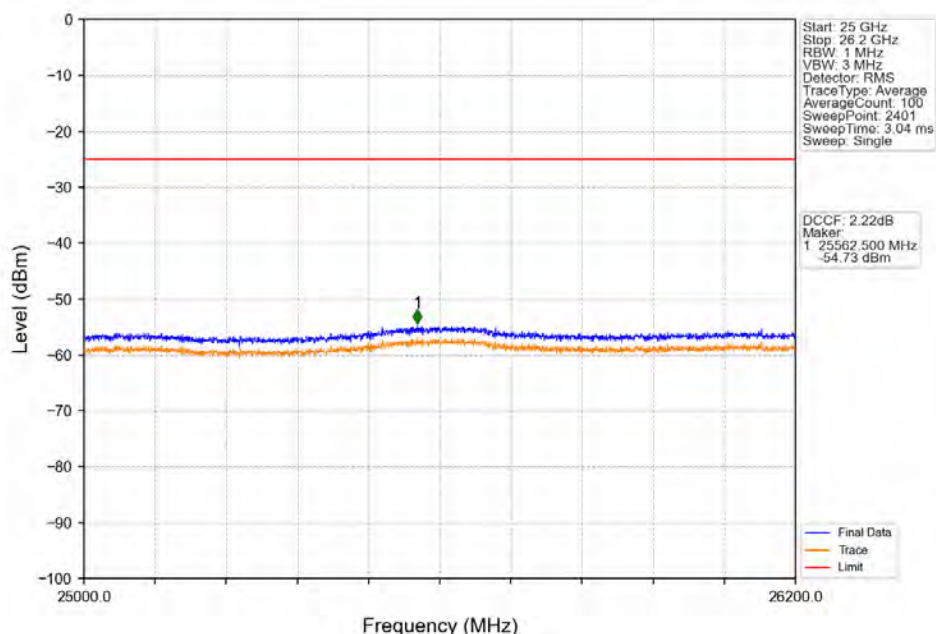
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Report No.: SUCR240400011301

Rev.: 01

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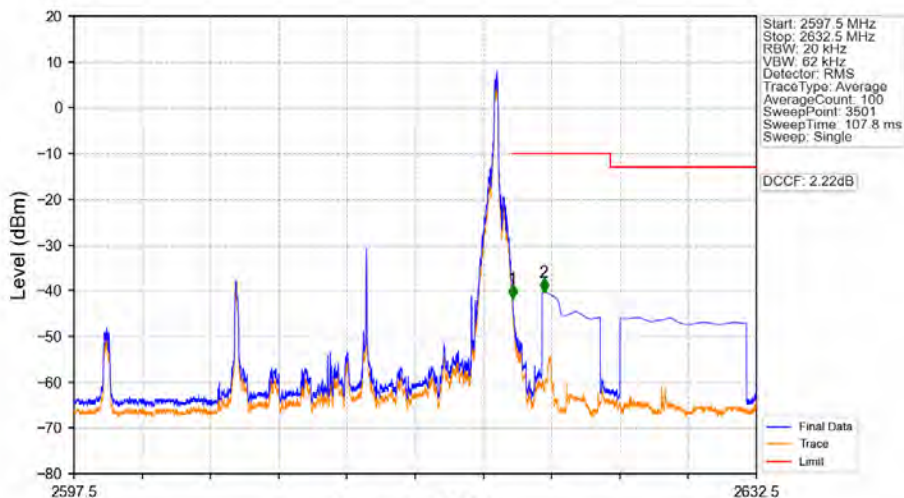
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Report No.: SUCR240400011301

Rev.: 01

Page: 130 of 148

Band38_15MHz_QPSK_HCH_2612.5MHz_RB_1_74_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2597.5	2620	0.02	/	1	2620.000	-41.71	-10	Pass
2621	2632.5	1	CHP	2	2621.600	-40.27	-10	Pass



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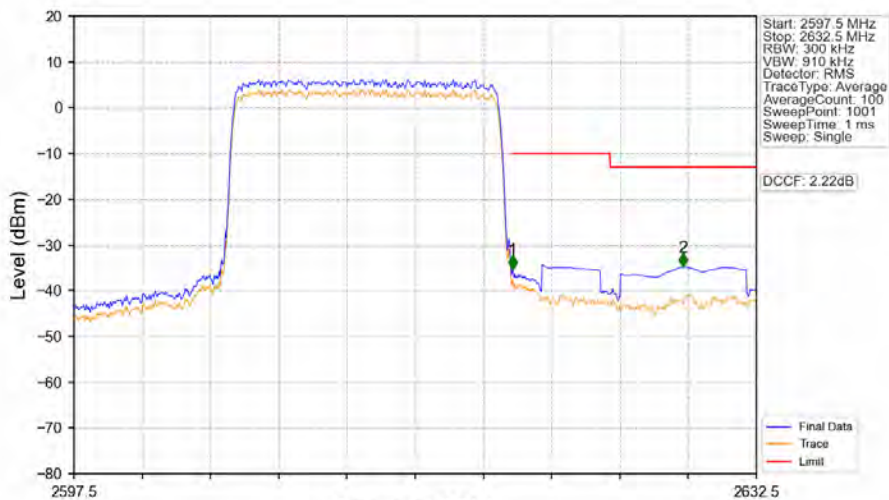
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Report No.: SUCR240400011301

Rev.: 01

Page: 131 of 148

Band38_15MHz_QPSK_HCH_2612.5MHz_RB_75_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2597.5	2620	0.3	/	/	/	/	/	/
2620	2621	0.3	/	1	2620.005	-35.34	-10	Pass
2621	2632.5	1	CHP	2	2628.755	-34.81	-13	Pass



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Report No.: SUCR240400011301

Rev.: 01

Page: 132 of 148

5.4 B38_20MHz

5.4.1 Test Result

Band: 38 / Bandwidth: 20MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	2580	1	0	Refer To Test Graph	Pass
		100	0	Refer To Test Graph	Pass
	2595	1	0	Refer To Test Graph	Pass
	2610	1	0	Refer To Test Graph	Pass
			99	Refer To Test Graph	Pass
		100	0	Refer To Test Graph	Pass



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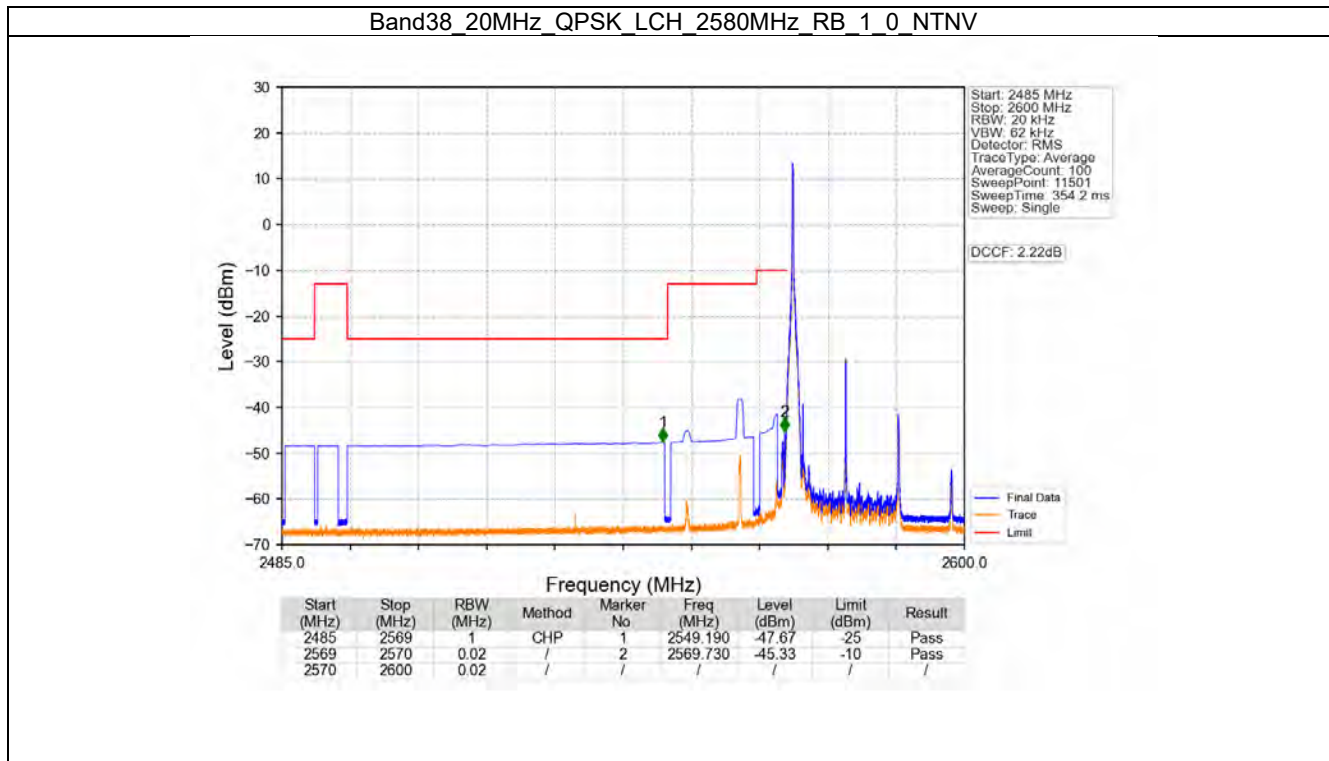
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Page: 133 of 148

5.4.2 Test Graph



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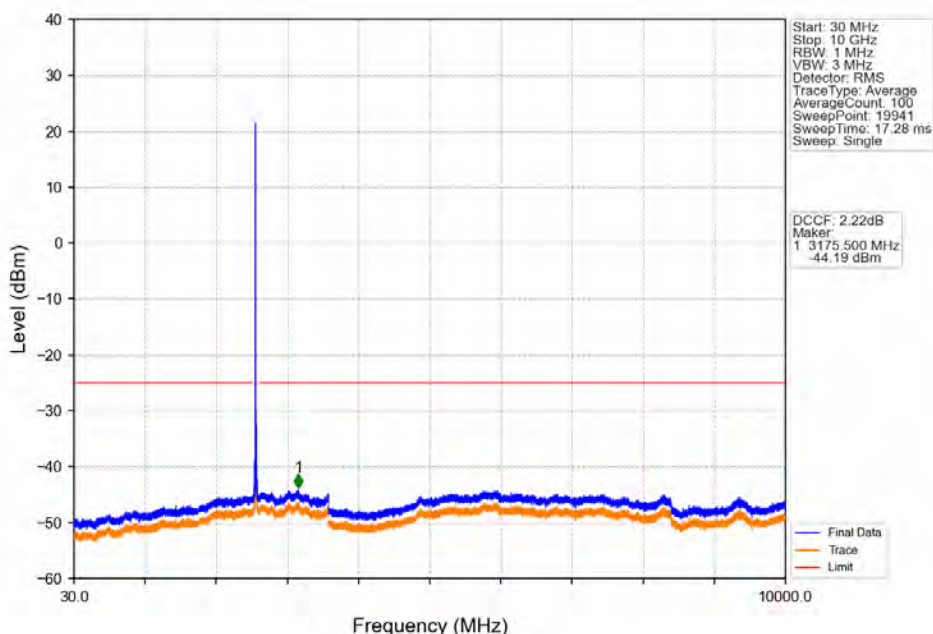
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Report No.: SUCR240400011301

Rev.: 01

Page: 134 of 148

Band38_20MHz_QPSK_LCH_2580MHz_RB_1_0_NTNV



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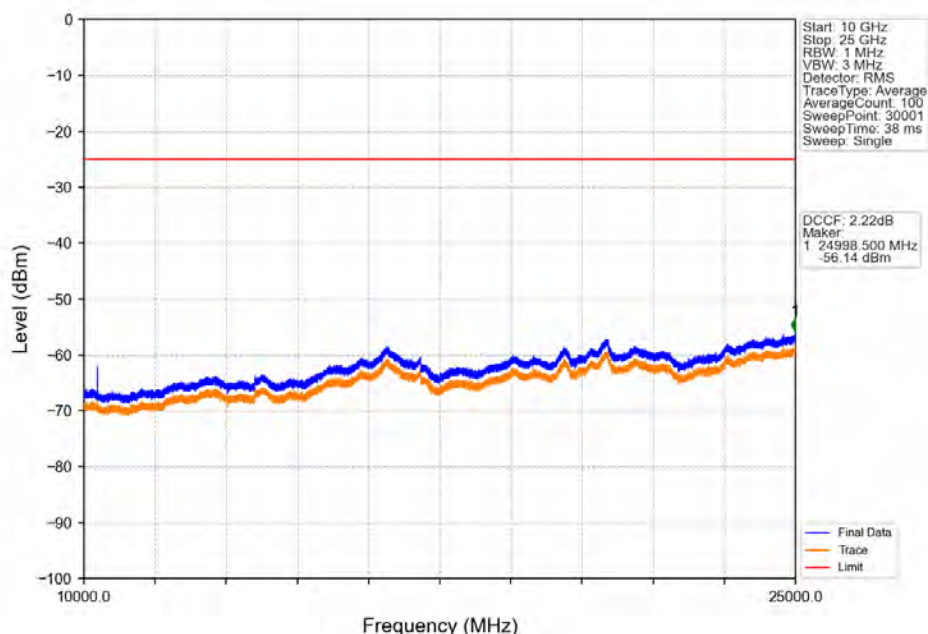
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Report No.: SUCR240400011301

Rev.: 01

Page: 135 of 148

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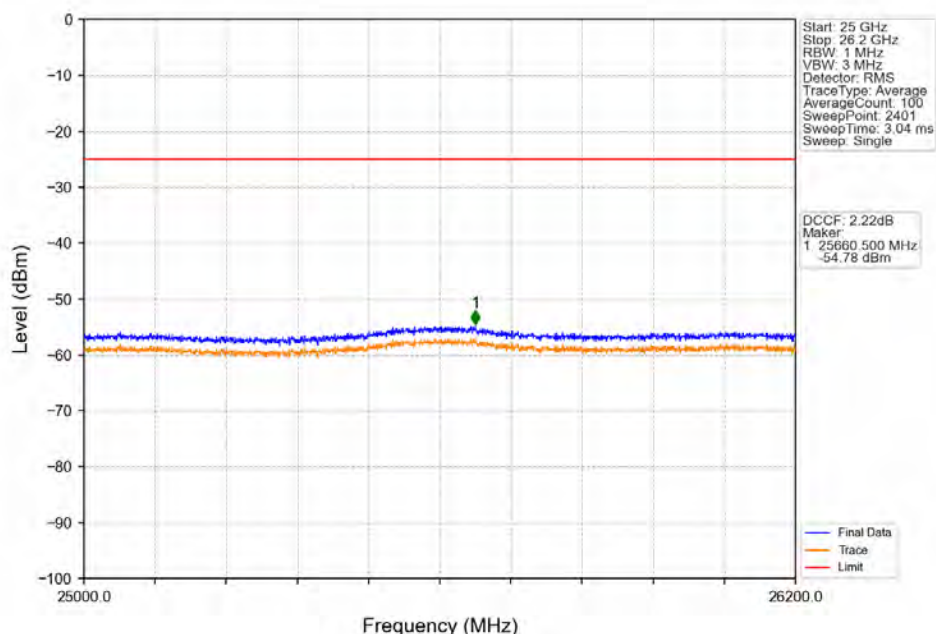
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Report No.: SUCR240400011301

Rev.: 01

Page: 136 of 148

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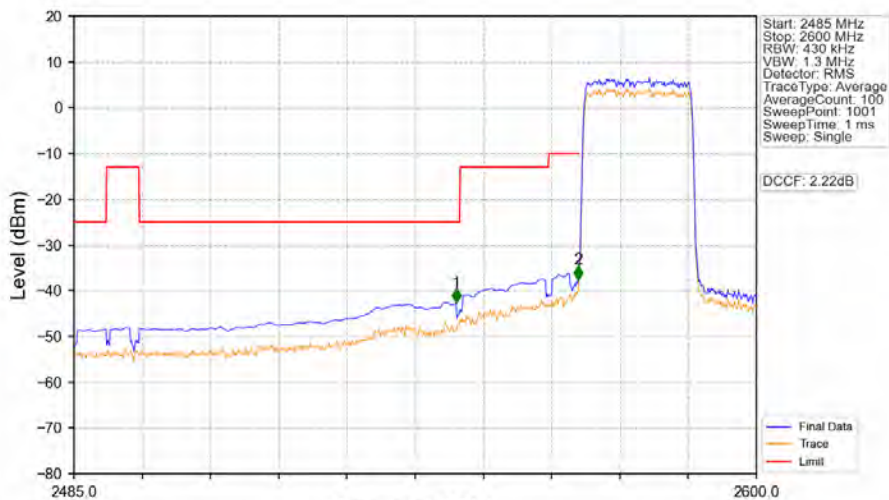
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Report No.: SUCR240400011301

Rev.: 01

Page: 137 of 148

Band38_20MHz_QPSK_LCH_2580MHz_RB_100_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2569	1	CHP	1	2549.400	-42.63	-25	Pass
2569	2570	0.43	/	2	2569.985	-37.60	-10	Pass
2570	2600	0.43	/	/	/	/	/	/



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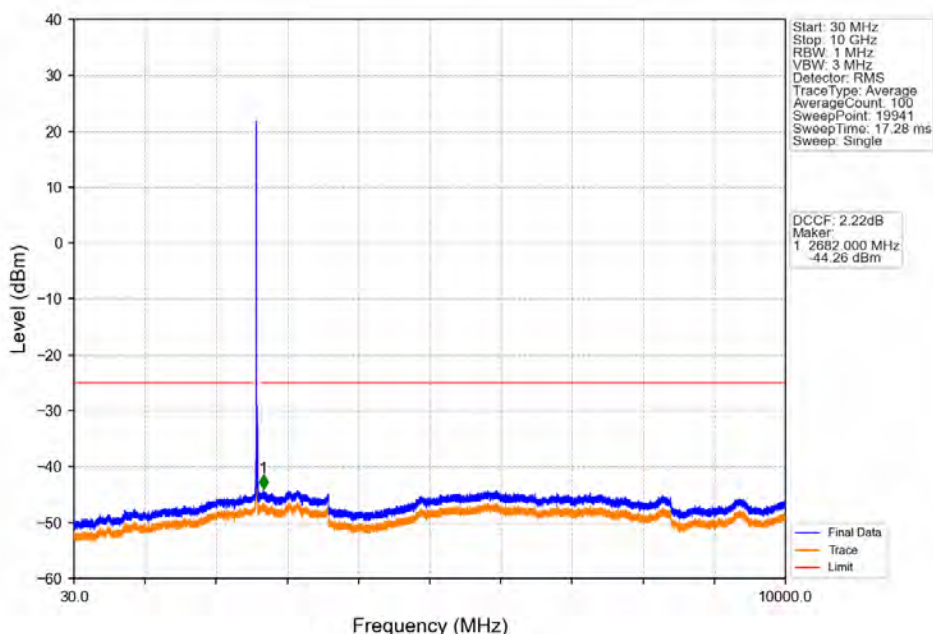
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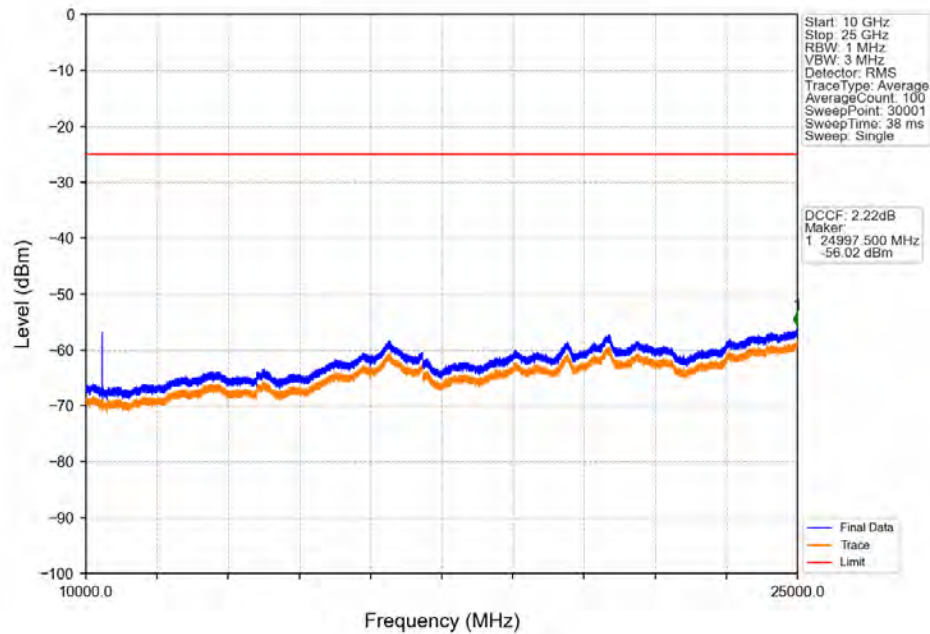
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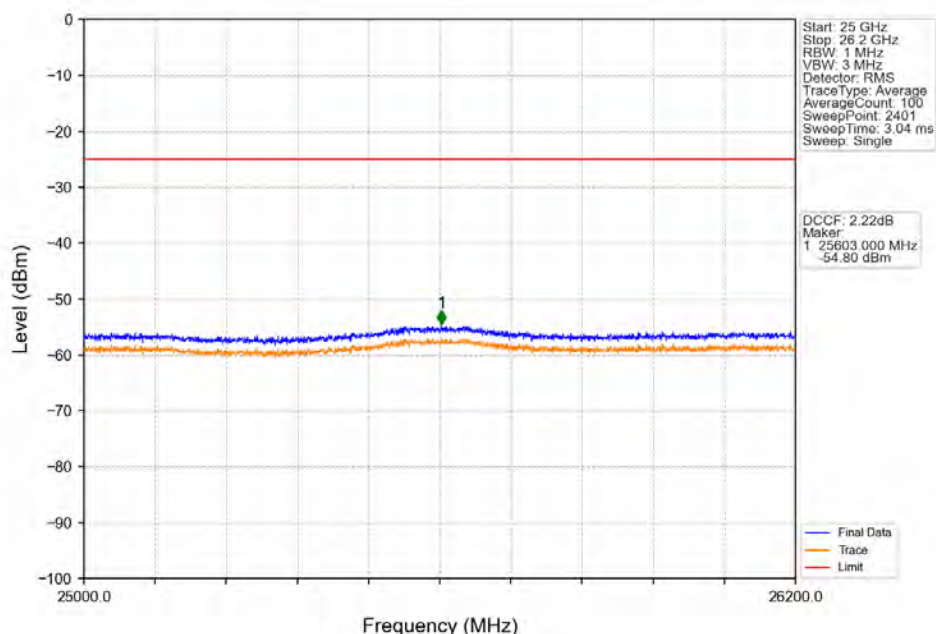
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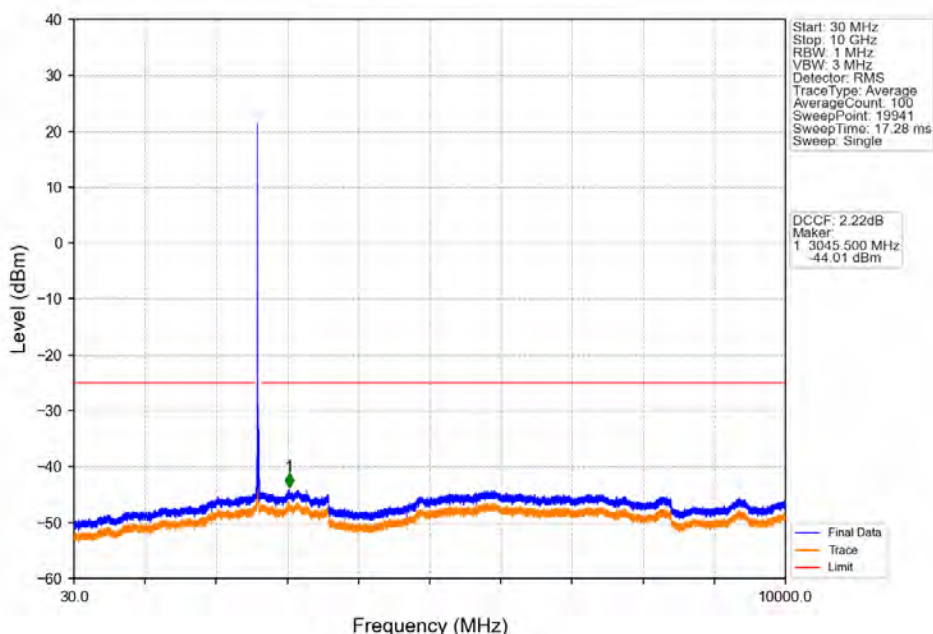
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Band38_20MHz_QPSK_HCH_2610MHz_RB_1_0_NTNV



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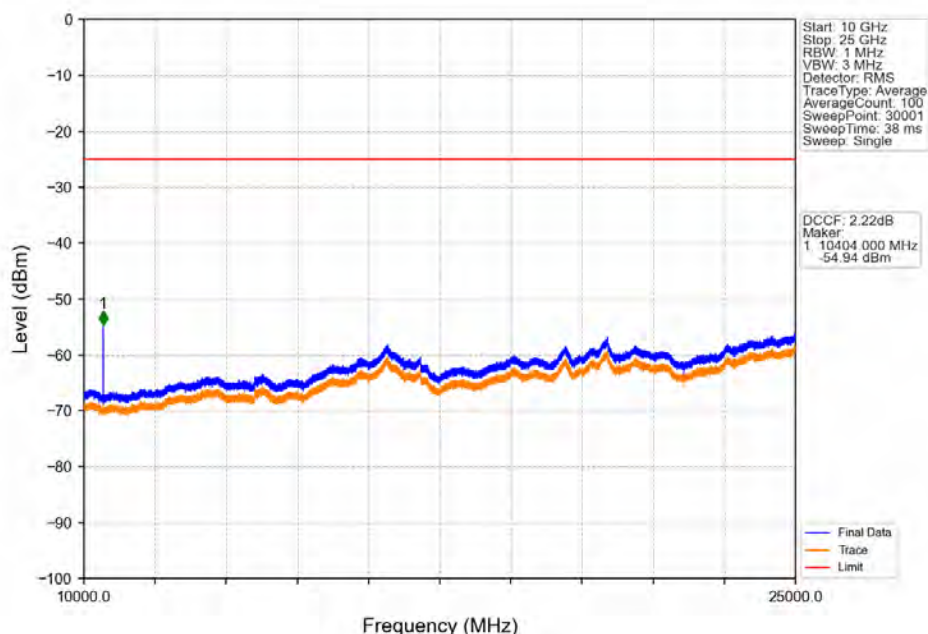
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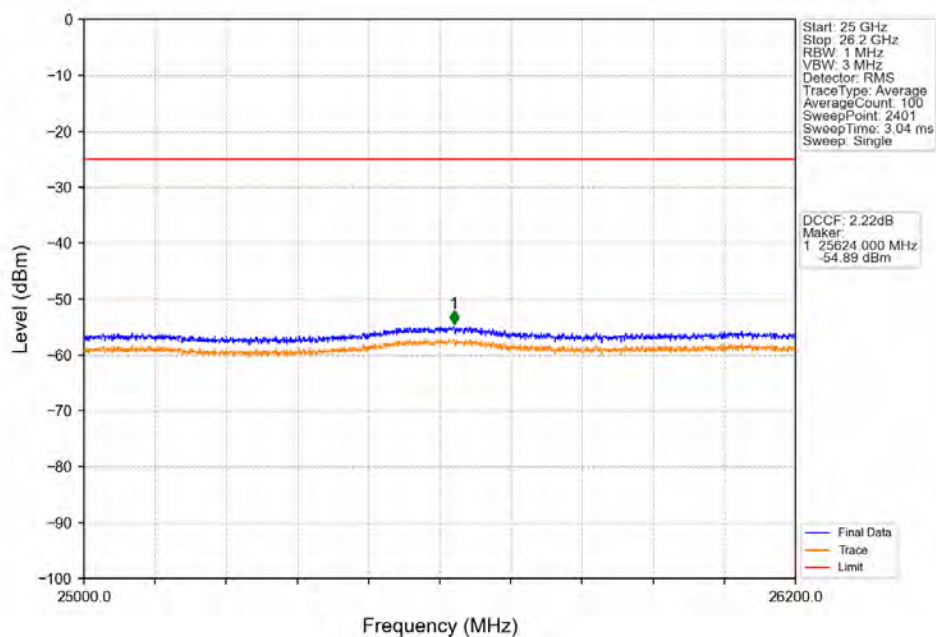
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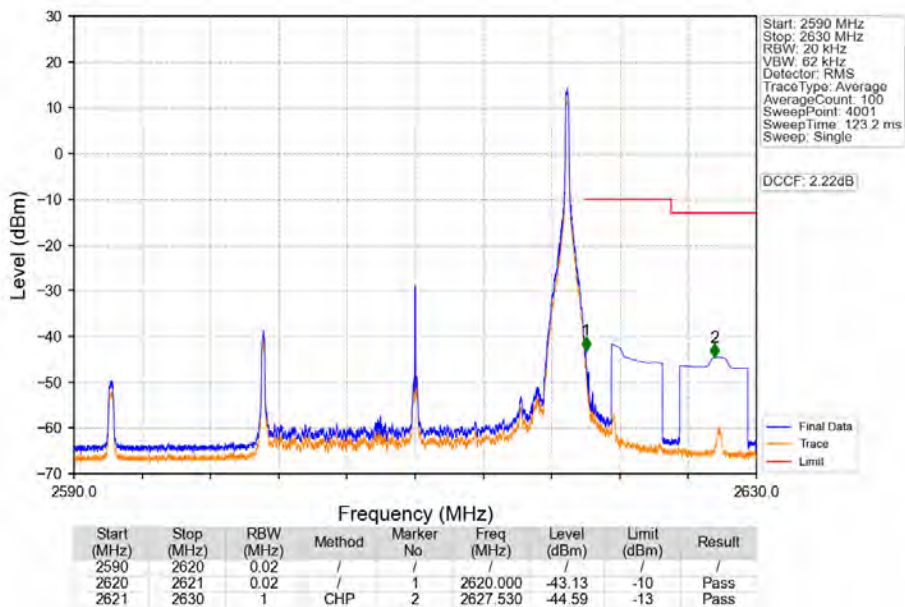
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Report No.: SUCR240400011301

Rev.: 01

Page: 144 of 148

Band38_20MHz_QPSK_HCH_2610MHz_RB_1_99_NTNV



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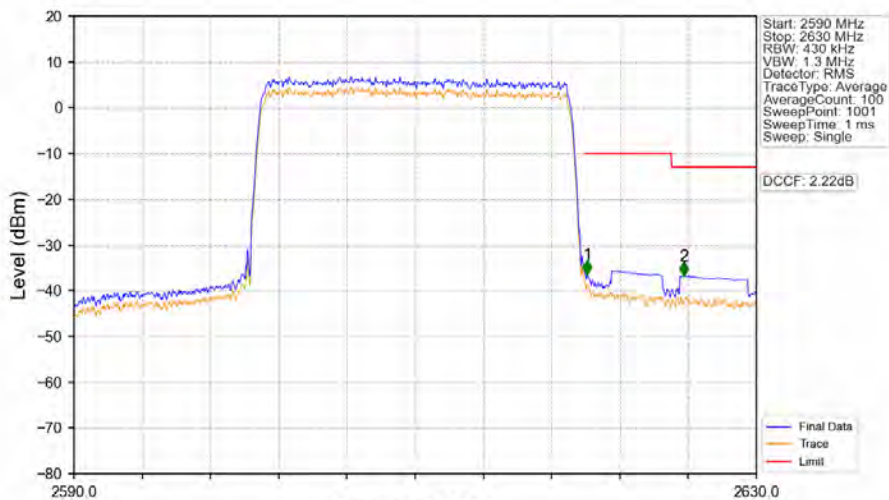
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Report No.: SUCR240400011301

Rev.: 01

Page: 145 of 148

Band38_20MHz_QPSK_HCH_2610MHz_RB_100_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2590	2620	0.43	/	/	/	/	/	/
2620	2621	0.43	/	1	2620.080	-36.49	-10	Pass
2621	2630	1	CHP	2	2625.760	-36.84	-13	Pass



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Report No.: SUCR240400011301
 Rev.: 01
 Page: 146 of 148

6. Field Strength of Spurious Radiation

Test Band = LTE Band 38_ TM1

Test Channel = Low Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5142.18	40.51	-41.08	33.17	-62.66	-25.00	37.66	Horizontal
2	7713.27	32.59	-37.26	36.81	-63.12	-25.00	38.12	Horizontal
3	10284.36	31.64	-32.19	38.04	-57.77	-25.00	32.77	Horizontal
4	12855.45	29.07	-29.93	39.43	-56.69	-25.00	31.69	Horizontal
5	15426.54	27.20	-27.67	39.29	-56.44	-25.00	31.44	Horizontal
6	17997.63	27.77	-24.79	41.30	-50.99	-25.00	25.99	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5142	40.97	-41.08	33.17	-62.20	-25.00	37.20	Vertical
2	7713.27	33.70	-37.26	36.81	-62.01	-25.00	37.01	Vertical
3	10284.36	33.75	-32.19	38.04	-55.66	-25.00	30.66	Vertical
4	12855.45	29.26	-29.93	39.43	-56.50	-25.00	31.50	Vertical
5	15426.54	29.36	-27.67	39.29	-54.28	-25.00	29.28	Vertical
6	17997.63	27.72	-24.79	41.30	-51.04	-25.00	26.04	Vertical



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Report No.: SUCR240400011301

Rev.: 01

Page: 147 of 148

Test Band = LTE Band 38_TM1

Test Channel = Mid Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3885.5	36.46	-42.83	30.91	-70.72	-25.00	45.72	Horizontal
2	10344	40.18	-31.88	38.07	-48.89	-25.00	23.89	Horizontal
3	5172.18	38.18	-40.94	33.17	-64.85	-25.00	39.85	Horizontal
4	7758.27	33.24	-37.01	36.86	-62.17	-25.00	37.17	Horizontal
5	12930.45	29.37	-29.87	39.52	-56.24	-25.00	31.24	Horizontal
6	15516.54	27.97	-27.82	39.12	-56.00	-25.00	31.00	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	17023	30.33	-24.31	38.96	-50.29	-25.00	25.29	Vertical
2	5172.18	39.58	-40.94	33.17	-63.45	-25.00	38.45	Vertical
3	7758.27	33.76	-37.01	36.86	-61.65	-25.00	36.65	Vertical
4	10344.36	35.95	-31.88	38.07	-53.12	-25.00	28.12	Vertical
5	12930.45	29.91	-29.87	39.52	-55.70	-25.00	30.70	Vertical
6	15516.54	27.77	-27.82	39.12	-56.20	-25.00	31.20	Vertical



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Report No.: SUCR240400011301
Rev.: 01
Page: 148 of 148

Test Band = LTE Band 38_TM1
Test Channel = High Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4292	35.12	-42.04	31.77	-70.41	-25.00	45.41	Horizontal
2	5202.18	35.66	-40.81	33.16	-67.25	-25.00	42.25	Horizontal
3	7803.27	32.42	-36.77	36.90	-62.70	-25.00	37.70	Horizontal
4	10404.36	34.71	-31.44	38.10	-53.89	-25.00	28.89	Horizontal
5	13005.45	29.26	-29.49	39.60	-55.88	-25.00	30.88	Horizontal
6	15606.54	28.38	-27.62	38.95	-55.56	-25.00	30.56	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4172.5	34.79	-42.23	31.58	-71.12	-25.00	46.12	Vertical
2	5202	40.21	-40.81	33.16	-62.70	-25.00	37.70	Vertical
3	7803.27	32.60	-36.77	36.90	-62.52	-25.00	37.52	Vertical
4	10404.36	36.50	-31.44	38.10	-52.10	-25.00	27.10	Vertical
5	13005.45	29.40	-29.49	39.60	-55.74	-25.00	30.74	Vertical
6	15606.54	29.11	-27.62	38.95	-54.83	-25.00	29.83	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

---End of Attachment---



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