



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

Report No.: SZCR240200059401
Rev.: 01
Page: 1 of 298

Appendix B.10

LTE Band 38



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Shenzhen Branch

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Report No.: SZCR240200059401
Rev.: 01
Page: 2 of 298

1. Effective (Isotropic) Radiated Power Output Data

1.1 B38_5MHz_EIRP

1.1.1 Test Result_Ant1

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	23.43	-0.70	22.73	<=33.01	Pass
			13	23.58	-0.70	22.88	<=33.01	Pass
			24	23.55	-0.70	22.85	<=33.01	Pass
		12	0	22.56	-0.70	21.86	<=33.01	Pass
			6	22.65	-0.70	21.95	<=33.01	Pass
			13	22.52	-0.70	21.82	<=33.01	Pass
		25	0	22.50	-0.70	21.80	<=33.01	Pass
	2595	1	0	23.32	-0.70	22.62	<=33.01	Pass
			13	23.64	-0.70	22.94	<=33.01	Pass
			24	23.46	-0.70	22.76	<=33.01	Pass
		12	0	22.43	-0.70	21.73	<=33.01	Pass
			6	22.60	-0.70	21.90	<=33.01	Pass
			13	22.43	-0.70	21.73	<=33.01	Pass
		25	0	22.41	-0.70	21.71	<=33.01	Pass
	2617.5	1	0	23.52	-0.70	22.82	<=33.01	Pass
			13	23.67	-0.70	22.97	<=33.01	Pass
			24	23.49	-0.70	22.79	<=33.01	Pass
		12	0	22.54	-0.70	21.84	<=33.01	Pass
			6	22.56	-0.70	21.86	<=33.01	Pass
			13	22.58	-0.70	21.88	<=33.01	Pass
		25	0	22.60	-0.70	21.90	<=33.01	Pass
16QAM	2572.5	1	0	22.49	-0.70	21.79	<=33.01	Pass
			13	22.59	-0.70	21.89	<=33.01	Pass
			24	22.69	-0.70	21.99	<=33.01	Pass
		12	0	21.47	-0.70	20.77	<=33.01	Pass
			6	21.58	-0.70	20.88	<=33.01	Pass
			13	21.45	-0.70	20.75	<=33.01	Pass
		25	0	21.57	-0.70	20.87	<=33.01	Pass
	2595	1	0	22.33	-0.70	21.63	<=33.01	Pass
			13	22.50	-0.70	21.80	<=33.01	Pass
			24	22.33	-0.70	21.63	<=33.01	Pass
		12	0	21.31	-0.70	20.61	<=33.01	Pass
			6	21.48	-0.70	20.78	<=33.01	Pass
			13	21.40	-0.70	20.70	<=33.01	Pass
		25	0	21.43	-0.70	20.73	<=33.01	Pass
	2617.5	1	0	22.41	-0.70	21.71	<=33.01	Pass
			13	22.62	-0.70	21.92	<=33.01	Pass
			24	22.46	-0.70	21.76	<=33.01	Pass
		12	0	21.48	-0.70	20.78	<=33.01	Pass



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Report No.: SZCR240200059401
Rev.: 01
Page: 3 of 298

		25	6	21.61	-0.70	20.91	<=33.01	Pass	
			13	21.44	-0.70	20.74	<=33.01	Pass	
			0	21.61	-0.70	20.91	<=33.01	Pass	
64QAM	2572.5	1	0	21.41	-0.70	20.71	<=33.01	Pass	
			13	21.33	-0.70	20.63	<=33.01	Pass	
			24	21.76	-0.70	21.06	<=33.01	Pass	
		12	0	20.40	-0.70	19.70	<=33.01	Pass	
			6	20.34	-0.70	19.64	<=33.01	Pass	
			13	20.43	-0.70	19.73	<=33.01	Pass	
		25	0	20.33	-0.70	19.63	<=33.01	Pass	
		2595	1	0	21.18	-0.70	20.48	<=33.01	Pass
				13	21.30	-0.70	20.60	<=33.01	Pass
	24			21.15	-0.70	20.45	<=33.01	Pass	
	12		0	20.28	-0.70	19.58	<=33.01	Pass	
			6	20.43	-0.70	19.73	<=33.01	Pass	
			13	20.31	-0.70	19.61	<=33.01	Pass	
	25		0	20.34	-0.70	19.64	<=33.01	Pass	
	2617.5		1	0	21.21	-0.70	20.51	<=33.01	Pass
				13	21.47	-0.70	20.77	<=33.01	Pass
		24		21.61	-0.70	20.91	<=33.01	Pass	
		12	0	20.42	-0.70	19.72	<=33.01	Pass	
			6	20.54	-0.70	19.84	<=33.01	Pass	
			13	20.39	-0.70	19.69	<=33.01	Pass	
		25	0	20.45	-0.70	19.75	<=33.01	Pass	
		Note1: EIRP=Conducted Power+Antenna Gain							



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Report No.: SZCR240200059401
Rev.: 01
Page: 4 of 298

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	23.62	-0.70	22.92	<=33.01	Pass
			25	23.71	-0.70	23.01	<=33.01	Pass
			49	23.47	-0.70	22.77	<=33.01	Pass
		25	0	22.58	-0.70	21.88	<=33.01	Pass
			13	22.56	-0.70	21.86	<=33.01	Pass
			25	22.52	-0.70	21.82	<=33.01	Pass
		50	0	22.54	-0.70	21.84	<=33.01	Pass
	2595	1	0	23.55	-0.70	22.85	<=33.01	Pass
			25	23.77	-0.70	23.07	<=33.01	Pass
			49	23.50	-0.70	22.80	<=33.01	Pass
		25	0	22.46	-0.70	21.76	<=33.01	Pass
			13	22.49	-0.70	21.79	<=33.01	Pass
			25	22.48	-0.70	21.78	<=33.01	Pass
		50	0	22.44	-0.70	21.74	<=33.01	Pass
	2615	1	0	23.57	-0.70	22.87	<=33.01	Pass
			25	23.74	-0.70	23.04	<=33.01	Pass
			49	23.50	-0.70	22.80	<=33.01	Pass
		25	0	22.53	-0.70	21.83	<=33.01	Pass
			13	22.53	-0.70	21.83	<=33.01	Pass
			25	22.53	-0.70	21.83	<=33.01	Pass
		50	0	22.48	-0.70	21.78	<=33.01	Pass
16QAM	2575	1	0	22.30	-0.70	21.60	<=33.01	Pass
			25	22.78	-0.70	22.08	<=33.01	Pass
			49	22.50	-0.70	21.80	<=33.01	Pass
		25	0	21.63	-0.70	20.93	<=33.01	Pass
			13	21.50	-0.70	20.80	<=33.01	Pass
			25	21.56	-0.70	20.86	<=33.01	Pass
		50	0	21.47	-0.70	20.77	<=33.01	Pass
	2595	1	0	22.28	-0.70	21.58	<=33.01	Pass
			25	22.44	-0.70	21.74	<=33.01	Pass
			49	22.35	-0.70	21.65	<=33.01	Pass
		25	0	21.51	-0.70	20.81	<=33.01	Pass
			13	21.51	-0.70	20.81	<=33.01	Pass
			25	21.47	-0.70	20.77	<=33.01	Pass
		50	0	21.45	-0.70	20.75	<=33.01	Pass
	2615	1	0	22.18	-0.70	21.48	<=33.01	Pass
			25	22.83	-0.70	22.13	<=33.01	Pass
			49	22.64	-0.70	21.94	<=33.01	Pass
		25	0	21.45	-0.70	20.75	<=33.01	Pass
			13	21.44	-0.70	20.74	<=33.01	Pass
			25	21.47	-0.70	20.77	<=33.01	Pass



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Report No.: SZCR240200059401
Rev.: 01
Page: 5 of 298

		50	0	21.42	-0.70	20.72	<=33.01	Pass	
64QAM	2575	1	0	21.73	-0.70	21.03	<=33.01	Pass	
			25	21.22	-0.70	20.52	<=33.01	Pass	
			49	21.59	-0.70	20.89	<=33.01	Pass	
			0	20.42	-0.70	19.72	<=33.01	Pass	
		25	13	20.50	-0.70	19.80	<=33.01	Pass	
			25	20.40	-0.70	19.70	<=33.01	Pass	
			0	20.37	-0.70	19.67	<=33.01	Pass	
		2595	1	0	21.72	-0.70	21.02	<=33.01	Pass
				25	21.32	-0.70	20.62	<=33.01	Pass
	49			21.64	-0.70	20.94	<=33.01	Pass	
	25		0	20.34	-0.70	19.64	<=33.01	Pass	
			13	20.42	-0.70	19.72	<=33.01	Pass	
			25	20.34	-0.70	19.64	<=33.01	Pass	
	50		0	20.30	-0.70	19.60	<=33.01	Pass	
	2615		1	0	21.53	-0.70	20.83	<=33.01	Pass
				25	21.78	-0.70	21.08	<=33.01	Pass
		49		21.57	-0.70	20.87	<=33.01	Pass	
		25	0	20.37	-0.70	19.67	<=33.01	Pass	
			13	20.38	-0.70	19.68	<=33.01	Pass	
			25	20.37	-0.70	19.67	<=33.01	Pass	
		50	0	20.39	-0.70	19.69	<=33.01	Pass	
	Note1: EIRP=Conducted Power+Antenna Gain								

Note1: EIRP=Conducted Power+Antenna Gain



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Report No.: SZCR240200059401

Rev.: 01

Page: 6 of 298

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	23.56	-0.70	22.86	<=33.01	Pass
			38	23.59	-0.70	22.89	<=33.01	Pass
			74	23.39	-0.70	22.69	<=33.01	Pass
		36	0	22.65	-0.70	21.95	<=33.01	Pass
			18	22.59	-0.70	21.89	<=33.01	Pass
			39	22.53	-0.70	21.83	<=33.01	Pass
		75	0	22.56	-0.70	21.86	<=33.01	Pass
	2595	1	0	23.51	-0.70	22.81	<=33.01	Pass
			38	23.64	-0.70	22.94	<=33.01	Pass
			74	23.43	-0.70	22.73	<=33.01	Pass
		36	0	22.59	-0.70	21.89	<=33.01	Pass
			18	22.62	-0.70	21.92	<=33.01	Pass
			39	22.56	-0.70	21.86	<=33.01	Pass
		75	0	22.54	-0.70	21.84	<=33.01	Pass
	2612.5	1	0	23.45	-0.70	22.75	<=33.01	Pass
			38	23.68	-0.70	22.98	<=33.01	Pass
			74	23.49	-0.70	22.79	<=33.01	Pass
		36	0	22.64	-0.70	21.94	<=33.01	Pass
			18	22.62	-0.70	21.92	<=33.01	Pass
			39	22.55	-0.70	21.85	<=33.01	Pass
		75	0	22.57	-0.70	21.87	<=33.01	Pass
16QAM	2577.5	1	0	22.60	-0.70	21.90	<=33.01	Pass
			38	22.60	-0.70	21.90	<=33.01	Pass
			74	22.08	-0.70	21.38	<=33.01	Pass
		36	0	21.51	-0.70	20.81	<=33.01	Pass
			18	21.55	-0.70	20.85	<=33.01	Pass
			39	21.48	-0.70	20.78	<=33.01	Pass
		75	0	21.58	-0.70	20.88	<=33.01	Pass
	2595	1	0	22.24	-0.70	21.54	<=33.01	Pass
			38	22.41	-0.70	21.71	<=33.01	Pass
			74	22.16	-0.70	21.46	<=33.01	Pass
		36	0	21.49	-0.70	20.79	<=33.01	Pass
			18	21.44	-0.70	20.74	<=33.01	Pass
			39	21.41	-0.70	20.71	<=33.01	Pass
		75	0	21.47	-0.70	20.77	<=33.01	Pass
	2612.5	1	0	22.51	-0.70	21.81	<=33.01	Pass
			38	22.52	-0.70	21.82	<=33.01	Pass
			74	22.39	-0.70	21.69	<=33.01	Pass
		36	0	21.52	-0.70	20.82	<=33.01	Pass
			18	21.59	-0.70	20.89	<=33.01	Pass
			39	21.50	-0.70	20.80	<=33.01	Pass



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

Report No.: SZCR240200059401

Rev.: 01

Page: 7 of 298

		75	0	21.52	-0.70	20.82	<=33.01	Pass	
64QAM	2577.5	1	0	21.28	-0.70	20.58	<=33.01	Pass	
			38	21.77	-0.70	21.07	<=33.01	Pass	
			74	21.58	-0.70	20.88	<=33.01	Pass	
			0	20.53	-0.70	19.83	<=33.01	Pass	
		36	18	20.49	-0.70	19.79	<=33.01	Pass	
			39	20.38	-0.70	19.68	<=33.01	Pass	
			75	0	20.50	-0.70	19.80	<=33.01	Pass
		2595	1	0	21.49	-0.70	20.79	<=33.01	Pass
				38	21.60	-0.70	20.90	<=33.01	Pass
	74			21.66	-0.70	20.96	<=33.01	Pass	
	36		0	20.41	-0.70	19.71	<=33.01	Pass	
			18	20.43	-0.70	19.73	<=33.01	Pass	
			39	20.41	-0.70	19.71	<=33.01	Pass	
	75		0	20.41	-0.70	19.71	<=33.01	Pass	
	2612.5	1	0	21.57	-0.70	20.87	<=33.01	Pass	
			38	21.64	-0.70	20.94	<=33.01	Pass	
			74	21.25	-0.70	20.55	<=33.01	Pass	
		36	0	20.47	-0.70	19.77	<=33.01	Pass	
			18	20.51	-0.70	19.81	<=33.01	Pass	
			39	20.46	-0.70	19.76	<=33.01	Pass	
		75	0	20.48	-0.70	19.78	<=33.01	Pass	
	Note1: EIRP=Conducted Power+Antenna Gain								

Note1: EIRP=Conducted Power+Antenna Gain



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Report No.: SZCR240200059401

Rev.: 01

Page: 8 of 298

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	23.53	-0.70	22.83	<=33.01	Pass
			50	23.65	-0.70	22.95	<=33.01	Pass
			99	23.33	-0.70	22.63	<=33.01	Pass
		50	0	22.54	-0.70	21.84	<=33.01	Pass
			25	22.49	-0.70	21.79	<=33.01	Pass
			50	22.43	-0.70	21.73	<=33.01	Pass
		100	0	22.47	-0.70	21.77	<=33.01	Pass
	2595	1	0	23.52	-0.70	22.82	<=33.01	Pass
			50	23.62	-0.70	22.92	<=33.01	Pass
			99	23.42	-0.70	22.72	<=33.01	Pass
		50	0	22.45	-0.70	21.75	<=33.01	Pass
			25	22.47	-0.70	21.77	<=33.01	Pass
			50	22.40	-0.70	21.70	<=33.01	Pass
		100	0	22.42	-0.70	21.72	<=33.01	Pass
	2610	1	0	23.45	-0.70	22.75	<=33.01	Pass
			50	23.72	-0.70	23.02	<=33.01	Pass
			99	23.40	-0.70	22.70	<=33.01	Pass
		50	0	22.49	-0.70	21.79	<=33.01	Pass
			25	22.56	-0.70	21.86	<=33.01	Pass
			50	22.41	-0.70	21.71	<=33.01	Pass
		100	0	22.50	-0.70	21.80	<=33.01	Pass
16QAM	2580	1	0	22.50	-0.70	21.80	<=33.01	Pass
			50	22.63	-0.70	21.93	<=33.01	Pass
			99	22.24	-0.70	21.54	<=33.01	Pass
		50	0	21.51	-0.70	20.81	<=33.01	Pass
			25	21.45	-0.70	20.75	<=33.01	Pass
			50	21.40	-0.70	20.70	<=33.01	Pass
		100	0	21.40	-0.70	20.70	<=33.01	Pass
	2595	1	0	22.52	-0.70	21.82	<=33.01	Pass
			50	22.87	-0.70	22.17	<=33.01	Pass
			99	22.03	-0.70	21.33	<=33.01	Pass
		50	0	21.46	-0.70	20.76	<=33.01	Pass
			25	21.44	-0.70	20.74	<=33.01	Pass
			50	21.35	-0.70	20.65	<=33.01	Pass
		100	0	21.42	-0.70	20.72	<=33.01	Pass
	2610	1	0	22.47	-0.70	21.77	<=33.01	Pass
			50	22.85	-0.70	22.15	<=33.01	Pass
			99	22.44	-0.70	21.74	<=33.01	Pass
		50	0	21.46	-0.70	20.76	<=33.01	Pass
			25	21.57	-0.70	20.87	<=33.01	Pass
			50	21.42	-0.70	20.72	<=33.01	Pass



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Report No.: SZCR240200059401

Rev.: 01

Page: 9 of 298

		100	0	21.54	-0.70	20.84	<=33.01	Pass	
64QAM	2580	1	0	21.56	-0.70	20.86	<=33.01	Pass	
			50	21.84	-0.70	21.14	<=33.01	Pass	
			99	21.38	-0.70	20.68	<=33.01	Pass	
			0	20.44	-0.70	19.74	<=33.01	Pass	
		50	25	20.39	-0.70	19.69	<=33.01	Pass	
			50	20.28	-0.70	19.58	<=33.01	Pass	
			100	0	20.36	-0.70	19.66	<=33.01	Pass
		2595	1	0	21.48	-0.70	20.78	<=33.01	Pass
				50	21.37	-0.70	20.67	<=33.01	Pass
	99			21.09	-0.70	20.39	<=33.01	Pass	
	50		0	20.33	-0.70	19.63	<=33.01	Pass	
			25	20.41	-0.70	19.71	<=33.01	Pass	
			50	20.28	-0.70	19.58	<=33.01	Pass	
			100	0	20.33	-0.70	19.63	<=33.01	Pass
	2610		1	0	21.53	-0.70	20.83	<=33.01	Pass
				50	21.50	-0.70	20.80	<=33.01	Pass
		99		21.21	-0.70	20.51	<=33.01	Pass	
		50	0	20.34	-0.70	19.64	<=33.01	Pass	
			25	20.44	-0.70	19.74	<=33.01	Pass	
			50	20.33	-0.70	19.63	<=33.01	Pass	
		100	0	20.40	-0.70	19.70	<=33.01	Pass	
Note1: EIRP=Conducted Power+Antenna Gain									

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Rev.: 01

Page: 10 of 298

2. Frequency Stability

2.1 B38_5MHz

2.1.1 Test Result

Band: 38 / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2572.5	25	0	20	3.6	-1.830	-0.0007	/	Pass
					3.84	-6.498	-0.0025	/	Pass
					4.3	2.559	0.0010	/	Pass
				-30	3.84	-2.706	-0.0011	/	Pass
				-20	3.84	-3.068	-0.0012	/	Pass
				-10	3.84	1.808	0.0007	/	Pass
				0	3.84	-14.673	-0.0057	/	Pass
				10	3.84	-4.587	-0.0018	/	Pass
				30	3.84	-12.089	-0.0047	/	Pass
				40	3.84	-0.984	-0.0004	/	Pass
				50	3.84	-16.938	-0.0066	/	Pass
	2595	25	0	20	3.6	24.765	0.0095	/	Pass
					3.84	-15.980	-0.0062	/	Pass
					4.3	-16.184	-0.0062	/	Pass
				-30	3.84	-20.422	-0.0079	/	Pass
				-20	3.84	-14.449	-0.0056	/	Pass
				-10	3.84	-7.144	-0.0028	/	Pass
				0	3.84	-16.256	-0.0063	/	Pass
				10	3.84	1.710	0.0007	/	Pass
				30	3.84	-1.123	-0.0004	/	Pass
				40	3.84	-20.291	-0.0078	/	Pass
				50	3.84	0.354	0.0001	/	Pass
	2617.5	25	0	20	3.6	9.247	0.0035	/	Pass
					3.84	0.183	0.0001	/	Pass
					4.3	-3.513	-0.0013	/	Pass
				-30	3.84	-15.886	-0.0061	/	Pass
				-20	3.84	-20.484	-0.0078	/	Pass
				-10	3.84	-31.527	-0.0120	/	Pass
				0	3.84	-38.282	-0.0146	/	Pass
				10	3.84	-39.169	-0.0150	/	Pass
				30	3.84	-24.143	-0.0092	/	Pass
				40	3.84	-31.688	-0.0121	/	Pass
				50	3.84	-23.286	-0.0089	/	Pass
16QAM	2572.5	25	0	20	3.6	-10.138	-0.0039	/	Pass
					3.84	-12.984	-0.0050	/	Pass
					4.3	-9.600	-0.0037	/	Pass
				-30	3.84	-21.800	-0.0085	/	Pass
				-20	3.84	-13.688	-0.0053	/	Pass
				-10	3.84	7.156	0.0028	/	Pass



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Report No.: SZCR240200059401

Rev.: 01

Page: 11 of 298

64QAM				0	3.84	-11.428	-0.0044	/	Pass
				10	3.84	-6.401	-0.0025	/	Pass
				30	3.84	16.010	0.0062	/	Pass
				40	3.84	5.721	0.0022	/	Pass
				50	3.84	-10.633	-0.0041	/	Pass
	2595	25	0	20	3.6	-14.252	-0.0055	/	Pass
					3.84	-32.781	-0.0126	/	Pass
					4.3	0.841	0.0003	/	Pass
				-30	3.84	-32.188	-0.0124	/	Pass
				-20	3.84	-2.114	-0.0008	/	Pass
				-10	3.84	3.557	0.0014	/	Pass
				0	3.84	-7.722	-0.0030	/	Pass
				10	3.84	-12.995	-0.0050	/	Pass
				30	3.84	7.234	0.0028	/	Pass
				40	3.84	9.893	0.0038	/	Pass
				50	3.84	6.611	0.0025	/	Pass
	2617.5	25	0	20	3.6	-36.872	-0.0141	/	Pass
					3.84	-45.637	-0.0174	/	Pass
					4.3	-20.076	-0.0077	/	Pass
				-30	3.84	-12.421	-0.0047	/	Pass
				-20	3.84	-43.788	-0.0167	/	Pass
				-10	3.84	-18.725	-0.0072	/	Pass
				0	3.84	-56.872	-0.0217	/	Pass
				10	3.84	-28.272	-0.0108	/	Pass
				30	3.84	-53.536	-0.0205	/	Pass
				40	3.84	-55.793	-0.0213	/	Pass
				50	3.84	-13.954	-0.0053	/	Pass
	2572.5	25	0	20	3.6	-15.775	-0.0061	/	Pass
					3.84	15.589	0.0061	/	Pass
					4.3	20.472	0.0080	/	Pass
				-30	3.84	19.834	0.0077	/	Pass
				-20	3.84	-10.655	-0.0041	/	Pass
				-10	3.84	24.257	0.0094	/	Pass
				0	3.84	15.132	0.0059	/	Pass
				10	3.84	5.784	0.0022	/	Pass
				30	3.84	6.118	0.0024	/	Pass
				40	3.84	9.786	0.0038	/	Pass
				50	3.84	14.496	0.0056	/	Pass
	2595	25	0	20	3.6	10.734	0.0041	/	Pass
					3.84	-26.538	-0.0102	/	Pass
					4.3	-20.460	-0.0079	/	Pass
				-30	3.84	-14.047	-0.0054	/	Pass
				-20	3.84	2.014	0.0008	/	Pass
				-10	3.84	-8.919	-0.0034	/	Pass
				0	3.84	-7.443	-0.0029	/	Pass
				10	3.84	16.266	0.0063	/	Pass
				30	3.84	-3.530	-0.0014	/	Pass
				40	3.84	-9.613	-0.0037	/	Pass
				50	3.84	-6.172	-0.0024	/	Pass



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Report No.: SZCR240200059401

Rev.: 01

Page: 12 of 298

2617.5	25	0	20	3.6	-55.864	-0.0213	/	Pass
				3.84	-42.647	-0.0163	/	Pass
				4.3	-29.519	-0.0113	/	Pass
			-30	3.84	-35.057	-0.0134	/	Pass
			-20	3.84	-35.901	-0.0137	/	Pass
			-10	3.84	-17.734	-0.0068	/	Pass
			0	3.84	-4.678	-0.0018	/	Pass
			10	3.84	-22.016	-0.0084	/	Pass
			30	3.84	-5.944	-0.0023	/	Pass
			40	3.84	-17.034	-0.0065	/	Pass
			50	3.84	-39.245	-0.0150	/	Pass



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Rev.: 01

Page: 13 of 298

2.2 B38_10MHz

2.2.1 Test Result

Band: 38 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2575	50	0	20	3.6	-1.871	-0.0007	/	Pass
					3.84	-10.378	-0.0040	/	Pass
					4.3	-10.215	-0.0040	/	Pass
				-30	3.84	5.091	0.0020	/	Pass
				-20	3.84	-17.052	-0.0066	/	Pass
				-10	3.84	3.470	0.0013	/	Pass
				0	3.84	-7.247	-0.0028	/	Pass
				10	3.84	8.605	0.0033	/	Pass
				30	3.84	0.818	0.0003	/	Pass
				40	3.84	-3.575	-0.0014	/	Pass
				50	3.84	-10.288	-0.0040	/	Pass
	2595	50	0	20	3.6	-7.751	-0.0030	/	Pass
					3.84	-5.096	-0.0020	/	Pass
					4.3	-10.038	-0.0039	/	Pass
				-30	3.84	-2.598	-0.0010	/	Pass
				-20	3.84	-9.013	-0.0035	/	Pass
				-10	3.84	-1.237	-0.0005	/	Pass
				0	3.84	-16.511	-0.0064	/	Pass
				10	3.84	-16.245	-0.0063	/	Pass
				30	3.84	-16.724	-0.0064	/	Pass
				40	3.84	5.063	0.0020	/	Pass
				50	3.84	-21.085	-0.0081	/	Pass
	2615	50	0	20	3.6	1.577	0.0006	/	Pass
					3.84	-15.355	-0.0059	/	Pass
					4.3	-23.693	-0.0091	/	Pass
				-30	3.84	4.884	0.0019	/	Pass
				-20	3.84	-3.805	-0.0015	/	Pass
				-10	3.84	-16.052	-0.0061	/	Pass
				0	3.84	-2.561	-0.0010	/	Pass
				10	3.84	-10.030	-0.0038	/	Pass
				30	3.84	4.152	0.0016	/	Pass
				40	3.84	-8.440	-0.0032	/	Pass
				50	3.84	4.105	0.0016	/	Pass
16QAM	2575	50	0	20	3.6	4.245	0.0016	/	Pass
					3.84	-14.956	-0.0058	/	Pass
					4.3	5.563	0.0022	/	Pass
				-30	3.84	-13.772	-0.0053	/	Pass
				-20	3.84	-0.897	-0.0003	/	Pass
				-10	3.84	5.592	0.0022	/	Pass
				0	3.84	-12.459	-0.0048	/	Pass
				10	3.84	-16.929	-0.0066	/	Pass



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Report No.: SZCR240200059401

Rev.: 01

Page: 14 of 298

64QAM	2595	50	0	30	3.84	6.250	0.0024	/	Pass
				40	3.84	-0.590	-0.0002	/	Pass
				50	3.84	-15.370	-0.0060	/	Pass
				20	3.6	-16.560	-0.0064	/	Pass
					3.84	3.335	0.0013	/	Pass
					4.3	-0.671	-0.0003	/	Pass
				-30	3.84	-14.643	-0.0056	/	Pass
				-20	3.84	8.456	0.0033	/	Pass
				-10	3.84	-16.739	-0.0065	/	Pass
				0	3.84	-9.781	-0.0038	/	Pass
				10	3.84	12.850	0.0050	/	Pass
				30	3.84	-26.456	-0.0102	/	Pass
	2615	50	0	40	3.84	-0.593	-0.0002	/	Pass
				50	3.84	-16.775	-0.0065	/	Pass
				20	3.6	6.217	0.0024	/	Pass
					3.84	9.743	0.0037	/	Pass
					4.3	-1.122	-0.0004	/	Pass
				-30	3.84	5.512	0.0021	/	Pass
				-20	3.84	8.520	0.0033	/	Pass
				-10	3.84	-24.221	-0.0093	/	Pass
				0	3.84	-13.465	-0.0051	/	Pass
				10	3.84	-18.895	-0.0072	/	Pass
				30	3.84	-1.821	-0.0007	/	Pass
				40	3.84	3.072	0.0012	/	Pass
				50	3.84	-19.637	-0.0075	/	Pass
	2575	50	0	20	3.6	2.744	0.0011	/	Pass
					3.84	-20.171	-0.0078	/	Pass
					4.3	-1.298	-0.0005	/	Pass
				-30	3.84	11.426	0.0044	/	Pass
				-20	3.84	-3.106	-0.0012	/	Pass
				-10	3.84	8.989	0.0035	/	Pass
				0	3.84	-7.973	-0.0031	/	Pass
				10	3.84	-2.675	-0.0010	/	Pass
				30	3.84	-11.368	-0.0044	/	Pass
				40	3.84	-0.630	-0.0002	/	Pass
				50	3.84	10.864	0.0042	/	Pass
	2595	50	0	20	3.6	6.149	0.0024	/	Pass
					3.84	-10.356	-0.0040	/	Pass
					4.3	2.155	0.0008	/	Pass
				-30	3.84	2.177	0.0008	/	Pass
				-20	3.84	5.660	0.0022	/	Pass
				-10	3.84	2.052	0.0008	/	Pass
				0	3.84	-11.899	-0.0046	/	Pass
				10	3.84	-7.192	-0.0028	/	Pass
				30	3.84	1.332	0.0005	/	Pass
				40	3.84	-21.267	-0.0082	/	Pass
				50	3.84	-12.702	-0.0049	/	Pass
	2615	50	0	20	3.6	-19.585	-0.0075	/	Pass
					3.84	-20.754	-0.0079	/	Pass



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Report No.: SZCR240200059401
Rev.: 01
Page: 15 of 298

				4.3	-27.659	-0.0106	/	Pass
				-30	3.84	8.416	0.0032	Pass
				-20	3.84	-12.001	-0.0046	Pass
				-10	3.84	-11.359	-0.0043	Pass
				0	3.84	8.387	0.0032	Pass
				10	3.84	-6.000	-0.0023	Pass
				30	3.84	-20.293	-0.0078	Pass
				40	3.84	6.679	0.0026	Pass
				50	3.84	5.289	0.0020	Pass



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Report No.: SZCR240200059401

Rev.: 01

Page: 16 of 298

2.3 B38_15MHz

2.3.1 Test Result

Band: 38 / Bandwidth: 15MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2577.5	75	0	20	3.6	-8.543	-0.0033	/	Pass
					3.84	-10.195	-0.0040	/	Pass
					4.3	-9.447	-0.0037	/	Pass
				-30	3.84	4.525	0.0018	/	Pass
				-20	3.84	-18.770	-0.0073	/	Pass
				-10	3.84	-10.248	-0.0040	/	Pass
				0	3.84	-6.001	-0.0023	/	Pass
				10	3.84	-3.138	-0.0012	/	Pass
				30	3.84	-25.318	-0.0098	/	Pass
				40	3.84	-10.469	-0.0041	/	Pass
				50	3.84	-8.416	-0.0033	/	Pass
	2595	75	0	20	3.6	-3.385	-0.0013	/	Pass
					3.84	1.254	0.0005	/	Pass
					4.3	-9.533	-0.0037	/	Pass
				-30	3.84	-18.480	-0.0071	/	Pass
				-20	3.84	-23.456	-0.0090	/	Pass
				-10	3.84	-11.660	-0.0045	/	Pass
				0	3.84	-4.506	-0.0017	/	Pass
				10	3.84	4.592	0.0018	/	Pass
				30	3.84	-5.151	-0.0020	/	Pass
				40	3.84	-3.663	-0.0014	/	Pass
				50	3.84	-19.821	-0.0076	/	Pass
	2612.5	75	0	20	3.6	-2.307	-0.0009	/	Pass
					3.84	0.728	0.0003	/	Pass
					4.3	-16.512	-0.0063	/	Pass
				-30	3.84	-11.126	-0.0043	/	Pass
				-20	3.84	5.626	0.0022	/	Pass
				-10	3.84	-17.307	-0.0066	/	Pass
				0	3.84	-9.634	-0.0037	/	Pass
				10	3.84	7.067	0.0027	/	Pass
				30	3.84	-13.764	-0.0053	/	Pass
				40	3.84	-6.340	-0.0024	/	Pass
				50	3.84	-1.356	-0.0005	/	Pass
16QAM	2577.5	75	0	20	3.6	0.308	0.0001	/	Pass
					3.84	4.149	0.0016	/	Pass
					4.3	-9.646	-0.0037	/	Pass
				-30	3.84	7.487	0.0029	/	Pass
				-20	3.84	13.467	0.0052	/	Pass
				-10	3.84	-12.250	-0.0048	/	Pass
				0	3.84	-5.501	-0.0021	/	Pass
				10	3.84	-3.183	-0.0012	/	Pass



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Report No.: SZCR240200059401

Rev.: 01

Page: 17 of 298

	2595	75	0	30	3.84	-4.310	-0.0017	/	Pass		
					40	3.84	0.029	0.0000	/	Pass	
					50	3.84	14.841	0.0058	/	Pass	
				20	3.6	11.131	0.0043	/	Pass		
						3.84	-10.693	-0.0041	/	Pass	
						4.3	-14.270	-0.0055	/	Pass	
					-30	3.84	-16.830	-0.0065	/	Pass	
						-20	3.84	-2.973	-0.0011	/	Pass
						-10	3.84	2.486	0.0010	/	Pass
					0	3.84	12.088	0.0047	/	Pass	
						10	3.84	9.926	0.0038	/	Pass
						30	3.84	-1.725	-0.0007	/	Pass
	40	3.84	-11.592	-0.0045	/	Pass					
		50	3.84	-11.728	-0.0045	/	Pass				
	2612.5	75	0	20	3.6	-13.058	-0.0050	/	Pass		
					3.84	-17.620	-0.0067	/	Pass		
					4.3	-14.920	-0.0057	/	Pass		
				-30	3.84	9.074	0.0035	/	Pass		
					-20	3.84	-1.293	-0.0005	/	Pass	
					-10	3.84	-3.966	-0.0015	/	Pass	
				0	3.84	-2.112	-0.0008	/	Pass		
					10	3.84	-4.963	-0.0019	/	Pass	
					30	3.84	1.450	0.0006	/	Pass	
				40	3.84	-4.432	-0.0017	/	Pass		
50					3.84	-10.804	-0.0041	/	Pass		
64QAM				2577.5	75	0	20	3.6	7.999	0.0031	/
	3.84	-18.683	-0.0072					/	Pass		
	4.3	9.099	0.0035					/	Pass		
	-30	3.84	3.348				0.0013	/	Pass		
		-20	3.84				-4.379	-0.0017	/	Pass	
		-10	3.84				10.923	0.0042	/	Pass	
	0	3.84	-8.118				-0.0031	/	Pass		
		10	3.84				-15.634	-0.0061	/	Pass	
		30	3.84				11.626	0.0045	/	Pass	
	40	3.84	-3.801				-0.0015	/	Pass		
		50	3.84				-11.703	-0.0045	/	Pass	
	2595	75	0				20	3.6	-8.639	-0.0033	/
				3.84	9.969	0.0038		/	Pass		
				4.3	8.397	0.0032		/	Pass		
				-30	3.84	-11.891	-0.0046	/	Pass		
					-20	3.84	-6.228	-0.0024	/	Pass	
					-10	3.84	-11.287	-0.0043	/	Pass	
				0	3.84	-18.944	-0.0073	/	Pass		
					10	3.84	-17.291	-0.0067	/	Pass	
					30	3.84	-1.417	-0.0005	/	Pass	
				40	3.84	-9.983	-0.0038	/	Pass		
					50	3.84	-7.761	-0.0030	/	Pass	
				2612.5	75	0	20	3.6	-4.982	-0.0019	/
	3.84	-3.196	-0.0012					/	Pass		



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Report No.: SZCR240200059401

Rev.: 01

Page: 18 of 298

				4.3	-18.875	-0.0072	/	Pass
				-30	3.84	12.651	0.0048	Pass
				-20	3.84	9.711	0.0037	Pass
				-10	3.84	-6.355	-0.0024	Pass
				0	3.84	-1.928	-0.0007	Pass
				10	3.84	-17.233	-0.0066	Pass
				30	3.84	-9.719	-0.0037	Pass
				40	3.84	-14.066	-0.0054	Pass
				50	3.84	-14.249	-0.0055	Pass



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Rev.: 01
Page: 19 of 298

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	3.6	-4.334	-0.0017	/	Pass
					3.84	-5.941	-0.0023	/	Pass
					4.3	-11.763	-0.0046	/	Pass
				-30	3.84	5.862	0.0023	/	Pass
				-20	3.84	-16.948	-0.0066	/	Pass
				-10	3.84	-7.944	-0.0031	/	Pass
				0	3.84	10.609	0.0041	/	Pass
				10	3.84	-14.013	-0.0054	/	Pass
				30	3.84	-20.644	-0.0080	/	Pass
				40	3.84	-0.219	-0.0001	/	Pass
				50	3.84	-15.216	-0.0059	/	Pass
	2595	100	0	20	3.6	-10.148	-0.0039	/	Pass
					3.84	-19.200	-0.0074	/	Pass
					4.3	3.649	0.0014	/	Pass
				-30	3.84	3.129	0.0012	/	Pass
				-20	3.84	-9.843	-0.0038	/	Pass
				-10	3.84	7.167	0.0028	/	Pass
				0	3.84	-11.719	-0.0045	/	Pass
				10	3.84	12.307	0.0047	/	Pass
				30	3.84	-8.452	-0.0033	/	Pass
				40	3.84	-9.989	-0.0038	/	Pass
				50	3.84	1.686	0.0006	/	Pass
	2610	100	0	20	3.6	13.068	0.0050	/	Pass
					3.84	-27.584	-0.0106	/	Pass
					4.3	-4.107	-0.0016	/	Pass
				-30	3.84	8.754	0.0034	/	Pass
				-20	3.84	5.221	0.0020	/	Pass
				-10	3.84	-5.105	-0.0020	/	Pass
				0	3.84	-12.861	-0.0049	/	Pass
				10	3.84	-6.973	-0.0027	/	Pass
				30	3.84	-12.786	-0.0049	/	Pass
				40	3.84	9.220	0.0035	/	Pass
				50	3.84	-9.965	-0.0038	/	Pass
16QAM	2580	100	0	20	3.6	-10.480	-0.0041	/	Pass
					3.84	5.725	0.0022	/	Pass
					4.3	-13.160	-0.0051	/	Pass
				-30	3.84	-22.096	-0.0086	/	Pass
				-20	3.84	15.439	0.0060	/	Pass
				-10	3.84	-11.460	-0.0044	/	Pass
				0	3.84	2.697	0.0010	/	Pass
				10	3.84	-2.403	-0.0009	/	Pass



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Report No.: SZCR240200059401

Rev.: 01

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64QAM	2595	100	0	30	3.84	-6.552	-0.0025	/	Pass
				40	3.84	-10.176	-0.0039	/	Pass
				50	3.84	-15.872	-0.0062	/	Pass
				20	3.6	5.703	0.0022	/	Pass
					3.84	-20.253	-0.0078	/	Pass
					4.3	-25.491	-0.0098	/	Pass
				-30	3.84	-3.995	-0.0015	/	Pass
				-20	3.84	2.099	0.0008	/	Pass
				-10	3.84	-20.131	-0.0078	/	Pass
				0	3.84	-13.075	-0.0050	/	Pass
				10	3.84	-3.867	-0.0015	/	Pass
				30	3.84	-21.485	-0.0083	/	Pass
				40	3.84	-5.902	-0.0023	/	Pass
				50	3.84	-12.321	-0.0047	/	Pass
	2610	100	0	20	3.6	0.175	0.0001	/	Pass
					3.84	7.462	0.0029	/	Pass
					4.3	-0.508	-0.0002	/	Pass
				-30	3.84	1.443	0.0006	/	Pass
				-20	3.84	-18.654	-0.0071	/	Pass
				-10	3.84	-12.891	-0.0049	/	Pass
				0	3.84	-17.927	-0.0069	/	Pass
				10	3.84	-28.668	-0.0110	/	Pass
				30	3.84	7.385	0.0028	/	Pass
				40	3.84	-15.901	-0.0061	/	Pass
				50	3.84	-3.128	-0.0012	/	Pass
	2580	100	0	20	3.6	-14.200	-0.0055	/	Pass
					3.84	-13.676	-0.0053	/	Pass
					4.3	-2.275	-0.0009	/	Pass
				-30	3.84	-0.207	-0.0001	/	Pass
				-20	3.84	-2.076	-0.0008	/	Pass
				-10	3.84	-12.042	-0.0047	/	Pass
				0	3.84	-22.050	-0.0085	/	Pass
				10	3.84	-15.146	-0.0059	/	Pass
				30	3.84	-16.571	-0.0064	/	Pass
				40	3.84	6.867	0.0027	/	Pass
				50	3.84	-1.928	-0.0007	/	Pass
	2595	100	0	20	3.6	-2.128	-0.0008	/	Pass
					3.84	1.748	0.0007	/	Pass
					4.3	-9.383	-0.0036	/	Pass
				-30	3.84	-1.771	-0.0007	/	Pass
				-20	3.84	-8.382	-0.0032	/	Pass
				-10	3.84	9.574	0.0037	/	Pass
				0	3.84	-9.581	-0.0037	/	Pass
				10	3.84	-22.043	-0.0085	/	Pass
				30	3.84	-3.757	-0.0014	/	Pass
				40	3.84	-7.349	-0.0028	/	Pass
				50	3.84	-8.234	-0.0032	/	Pass
	2610	100	0	20	3.6	-4.846	-0.0019	/	Pass
					3.84	-1.138	-0.0004	/	Pass



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Report No.: SZCR240200059401

Rev.: 01

Page: 21 of 298

				4.3	-6.528	-0.0025	/	Pass
				-30	3.84	-19.063	-0.0073	Pass
				-20	3.84	-12.756	-0.0049	Pass
				-10	3.84	-10.840	-0.0042	Pass
				0	3.84	4.972	0.0019	Pass
				10	3.84	-15.196	-0.0058	Pass
				30	3.84	-10.308	-0.0039	Pass
				40	3.84	-6.079	-0.0023	Pass
				50	3.84	-22.420	-0.0086	Pass



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Report No.: SZCR240200059401
Rev.: 01
Page: 22 of 298

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	4.549	/	Pass
		2617.5	25	0	4.544	/	Pass
	16QAM	2572.5	25	0	4.568	/	Pass
		2595	25	0	4.543	/	Pass
		2617.5	25	0	4.542	/	Pass
	64QAM	2572.5	25	0	4.534	/	Pass
		2595	25	0	4.528	/	Pass
		2617.5	25	0	4.541	/	Pass
10	QPSK	2575	50	0	9.047	/	Pass
		2595	50	0	9.060	/	Pass
		2615	50	0	9.084	/	Pass
	16QAM	2575	50	0	9.083	/	Pass
		2595	50	0	9.063	/	Pass
		2615	50	0	9.059	/	Pass
	64QAM	2575	50	0	9.075	/	Pass
		2595	50	0	9.057	/	Pass
		2615	50	0	9.052	/	Pass
15	QPSK	2577.5	75	0	13.584	/	Pass
		2595	75	0	13.585	/	Pass
		2612.5	75	0	13.575	/	Pass
	16QAM	2577.5	75	0	13.580	/	Pass
		2595	75	0	13.607	/	Pass
		2612.5	75	0	13.634	/	Pass
	64QAM	2577.5	75	0	13.590	/	Pass
		2595	75	0	13.601	/	Pass
		2612.5	75	0	13.572	/	Pass
20	QPSK	2580	100	0	18.098	/	Pass
		2595	100	0	18.064	/	Pass
		2610	100	0	18.101	/	Pass
	16QAM	2580	100	0	18.059	/	Pass
		2595	100	0	18.079	/	Pass
		2610	100	0	18.054	/	Pass
	64QAM	2580	100	0	18.029	/	Pass
		2595	100	0	18.080	/	Pass
		2610	100	0	18.090	/	Pass



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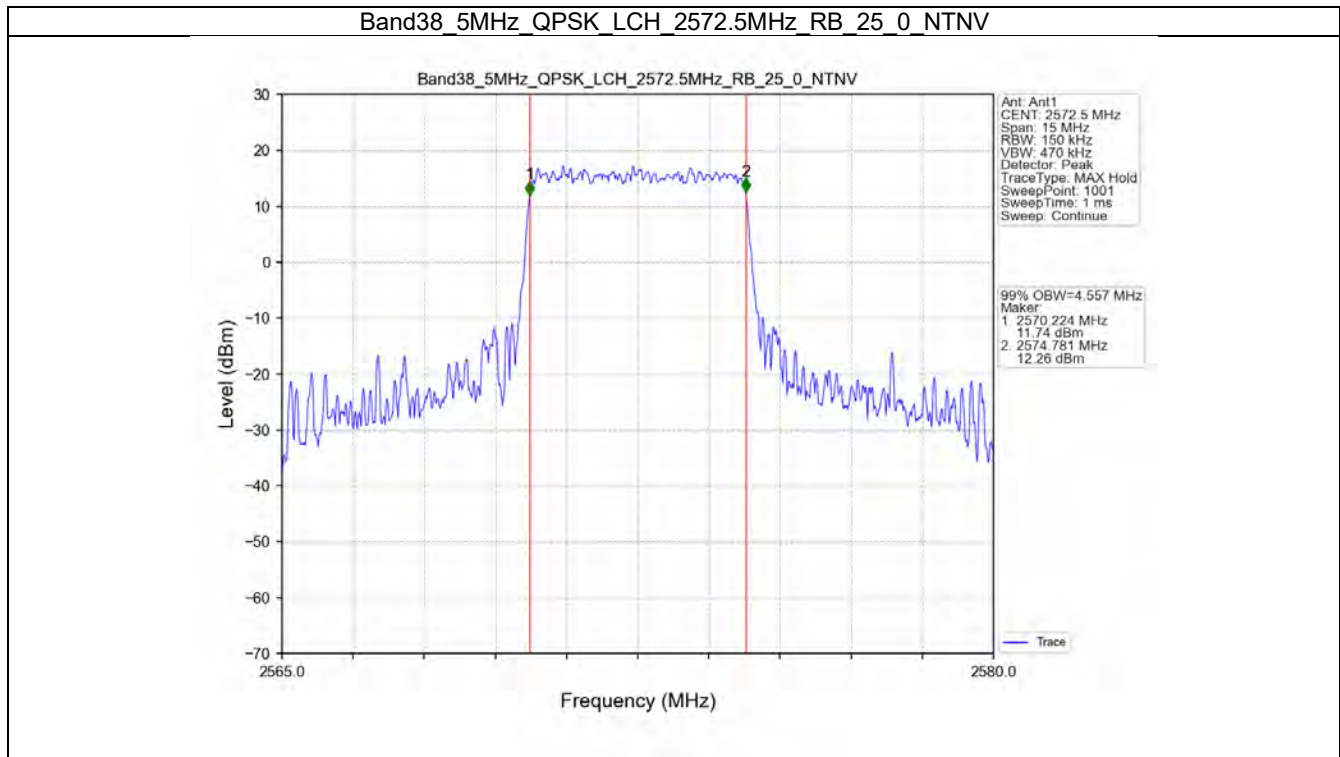
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Report No.: SZCR240200059401

Rev.: 01

Page: 23 of 298

3.1.2 Test Graph



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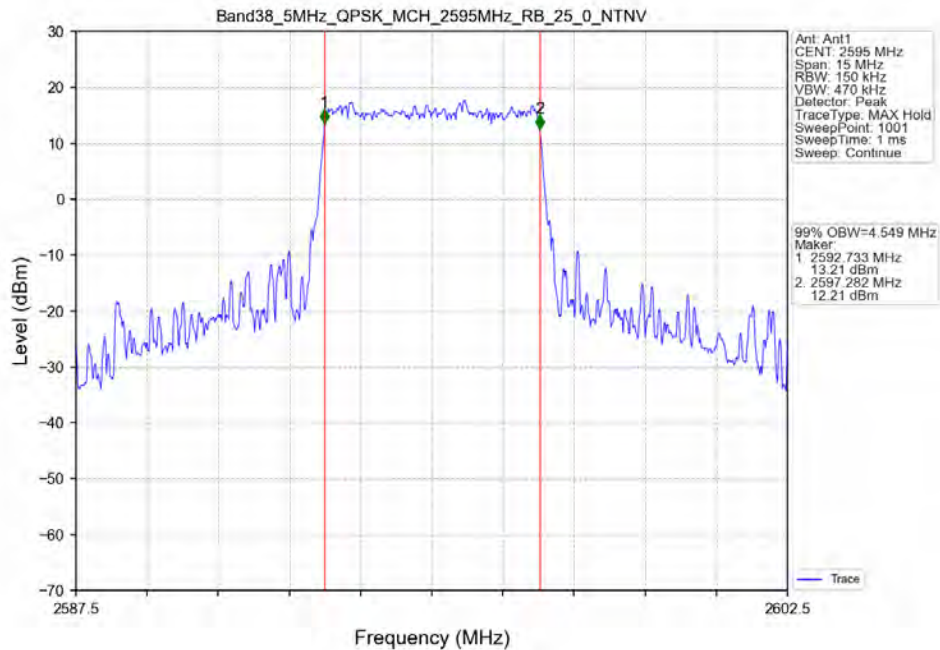
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Report No.: SZCR240200059401

Rev.: 01

Page: 24 of 298

Band38_5MHz_QPSK_MCH_2595MHz_RB_25_0_NTNV



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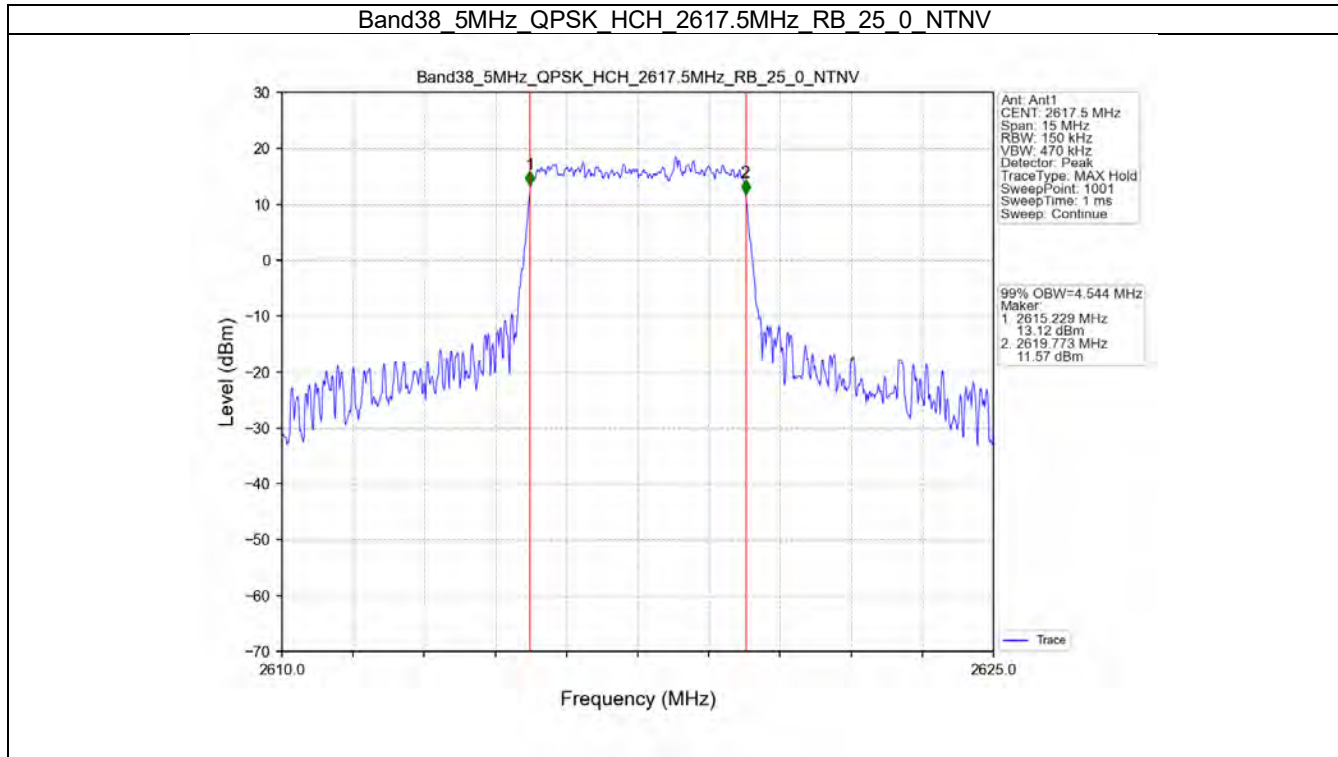


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Report No.: SZCR240200059401

Rev.: 01

Page: 25 of 298



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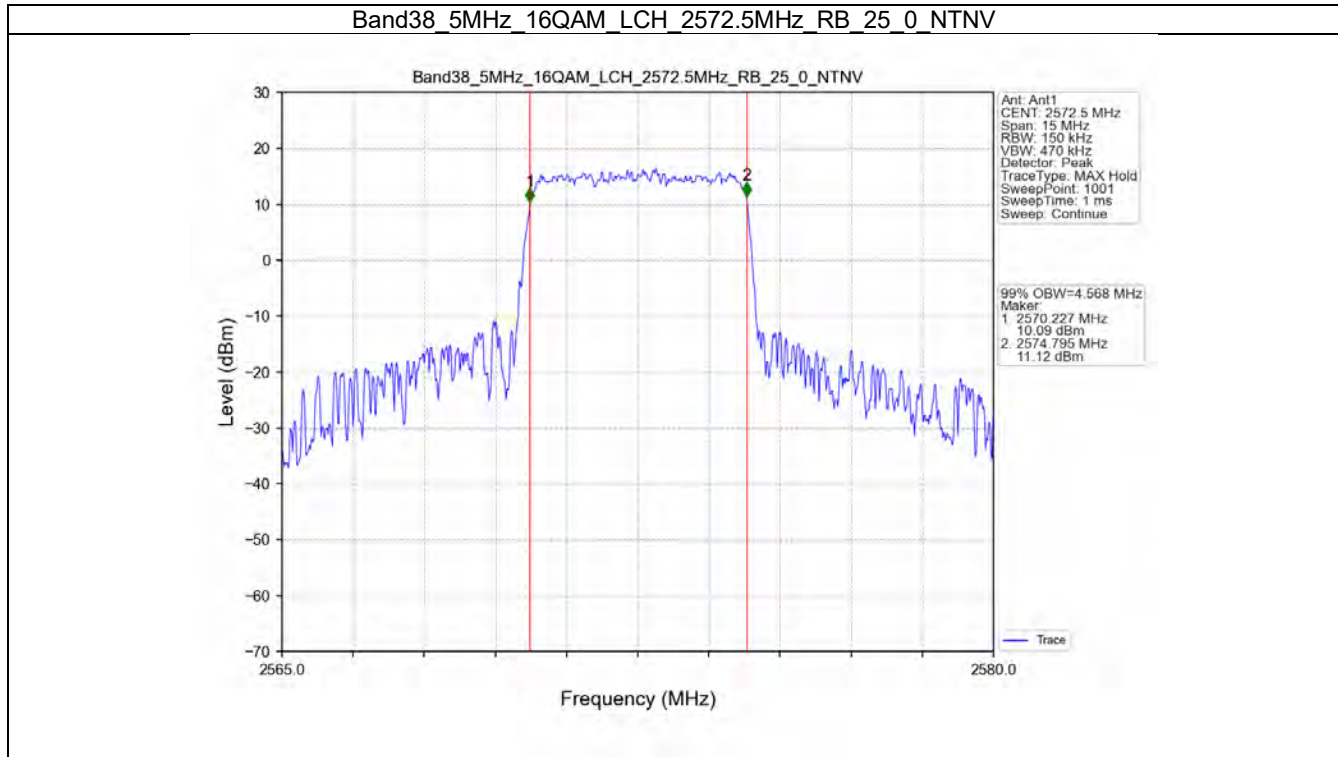


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Report No.: SZCR240200059401

Rev.: 01

Page: 26 of 298



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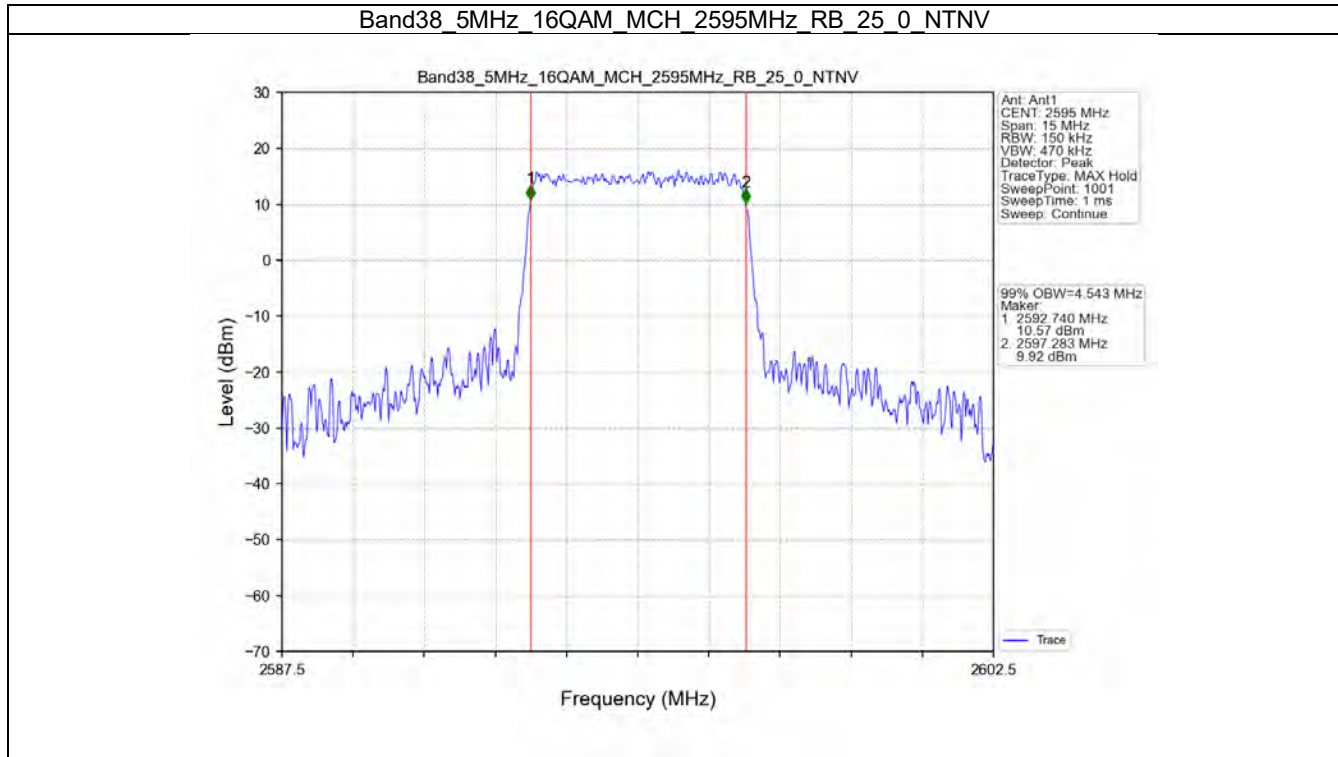


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Rev.: 01

Page: 27 of 298



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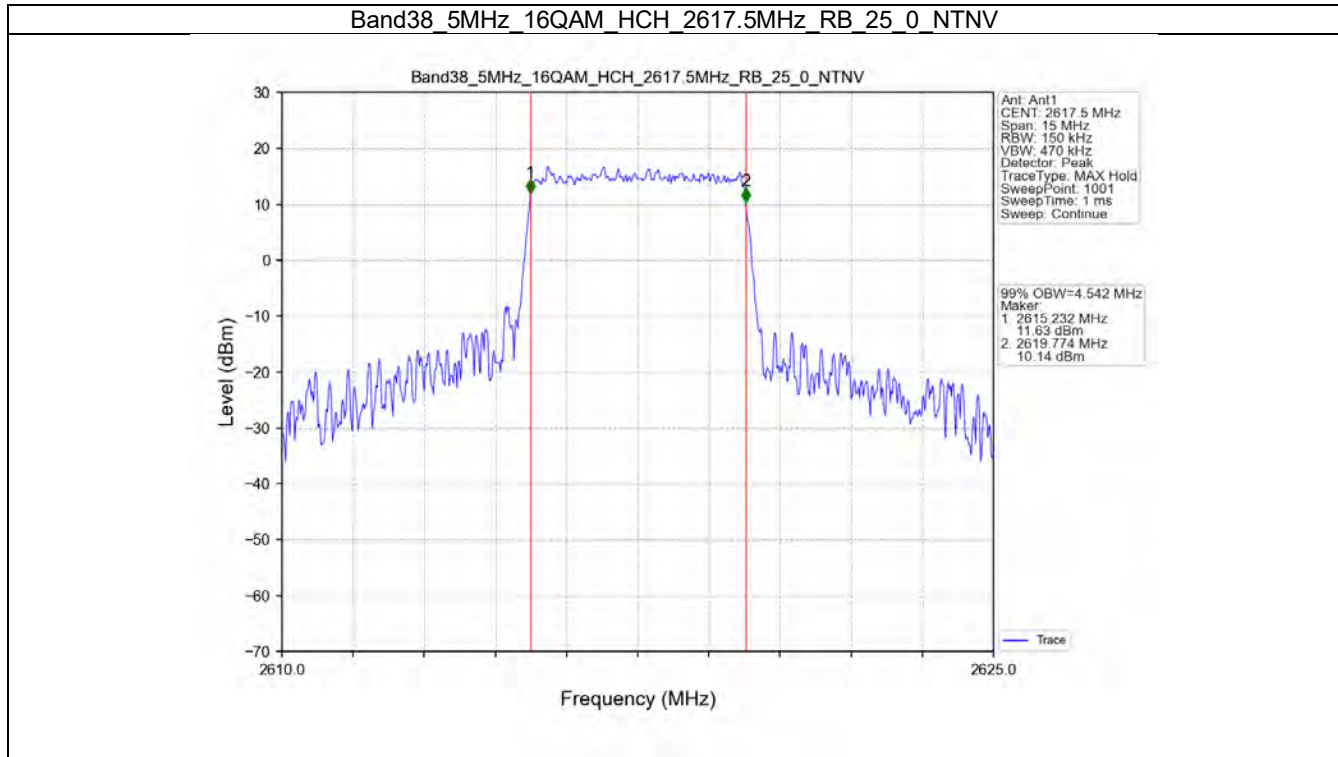


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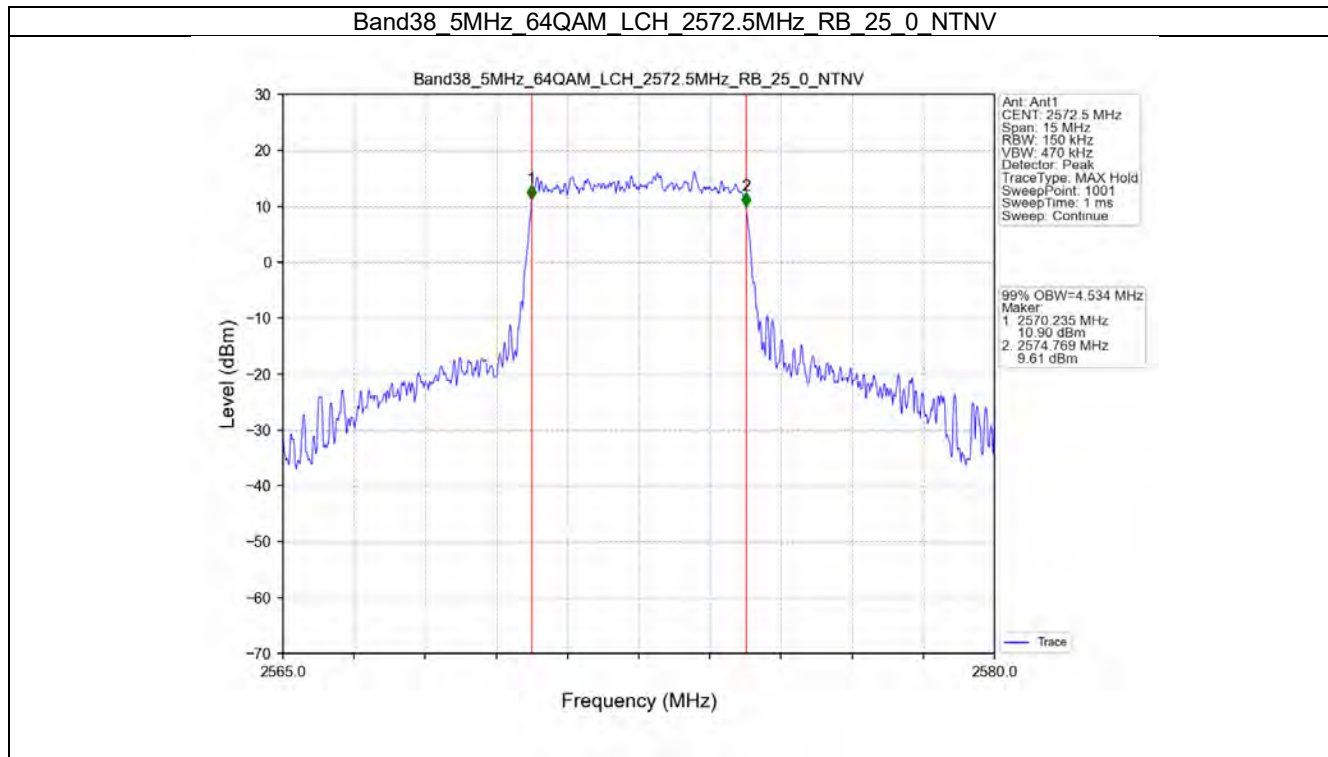


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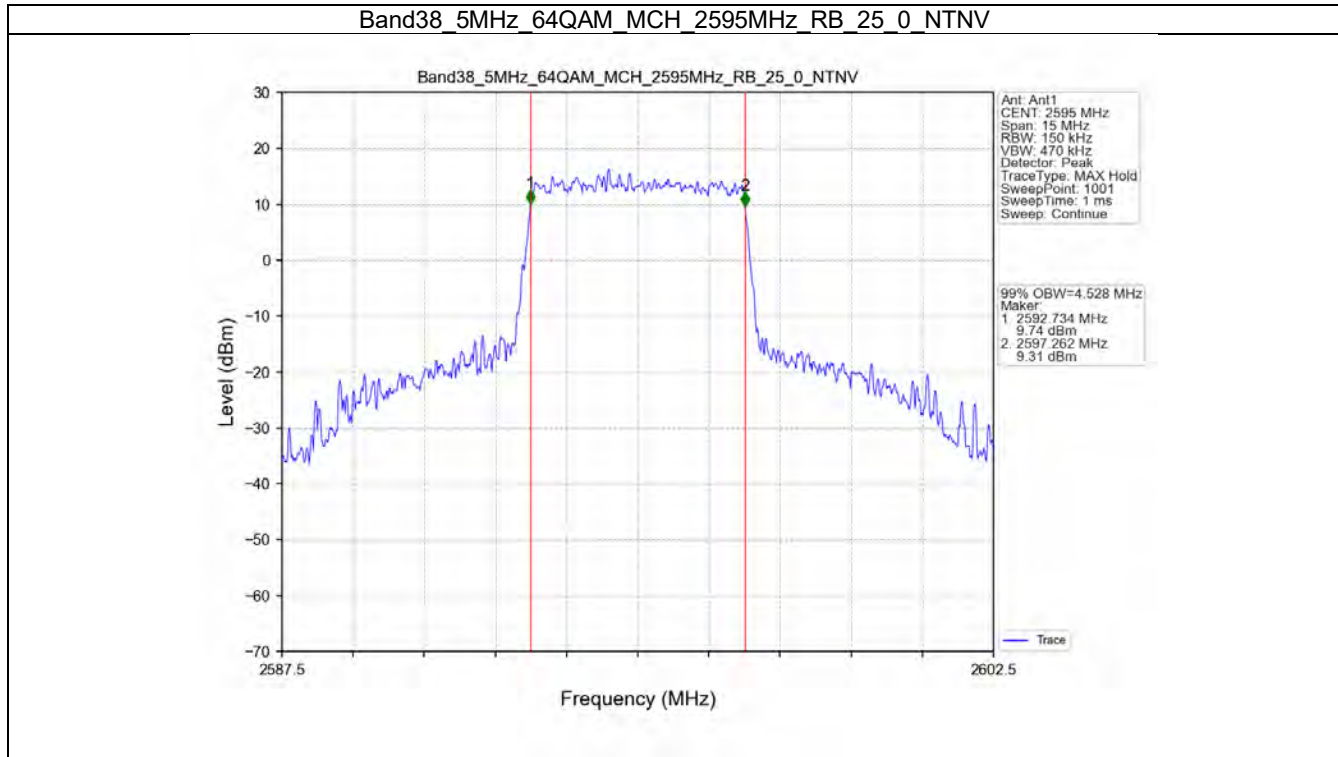


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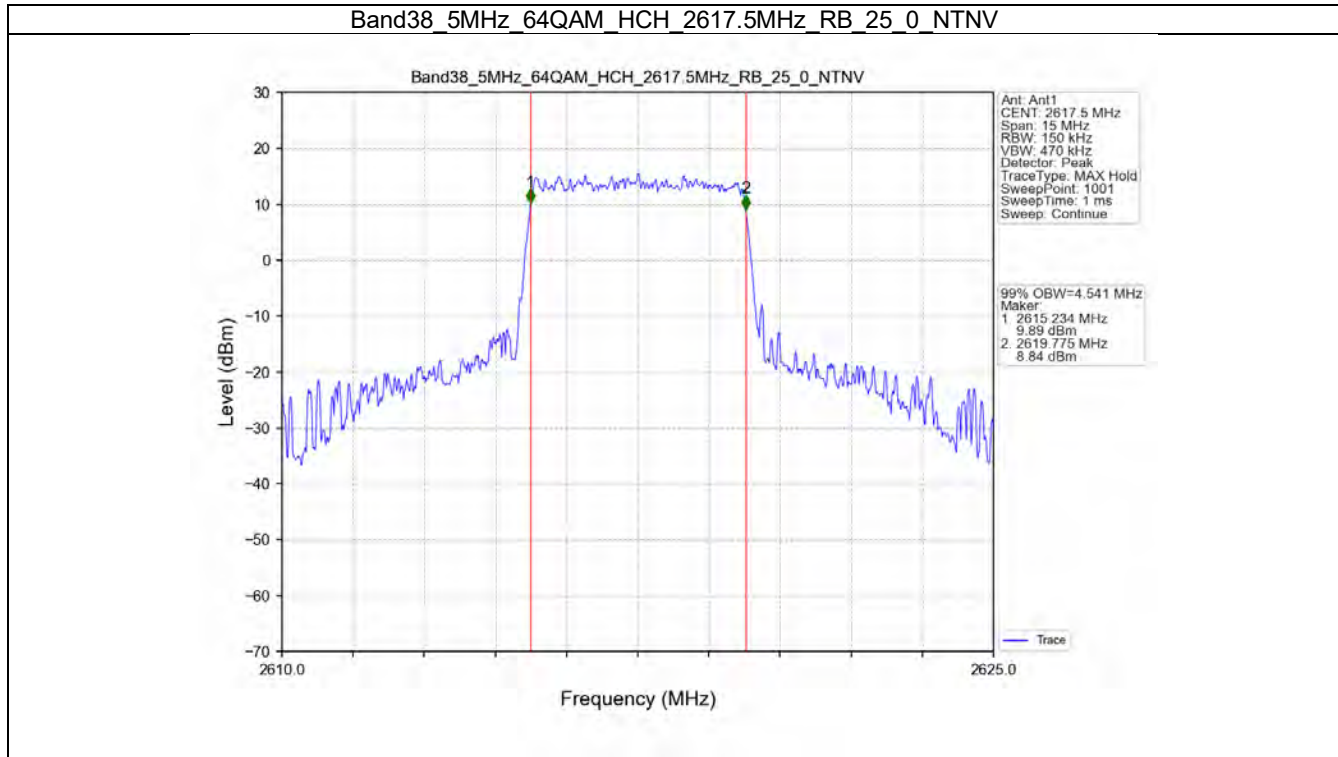


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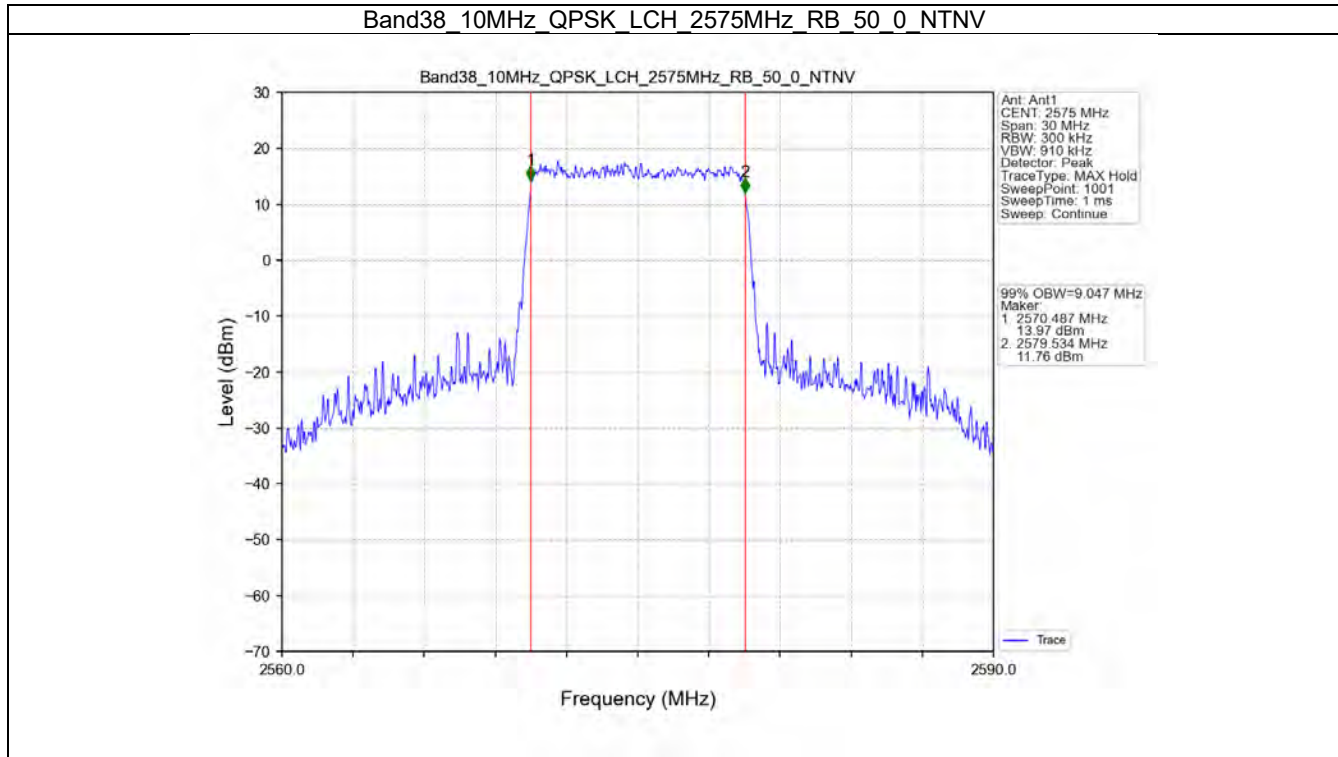


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Report No.: SZCR240200059401

Rev.: 01

Page: 32 of 298



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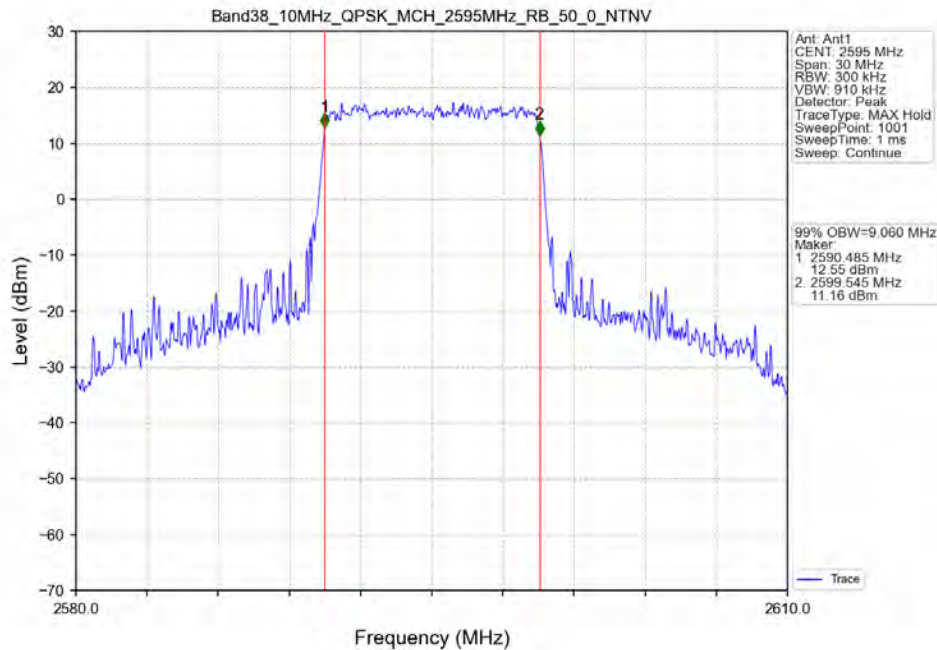
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240200059401

Rev.: 01

Page: 33 of 298

Band38_10MHz_QPSK_MCH_2595MHz_RB_50_0_NTNV



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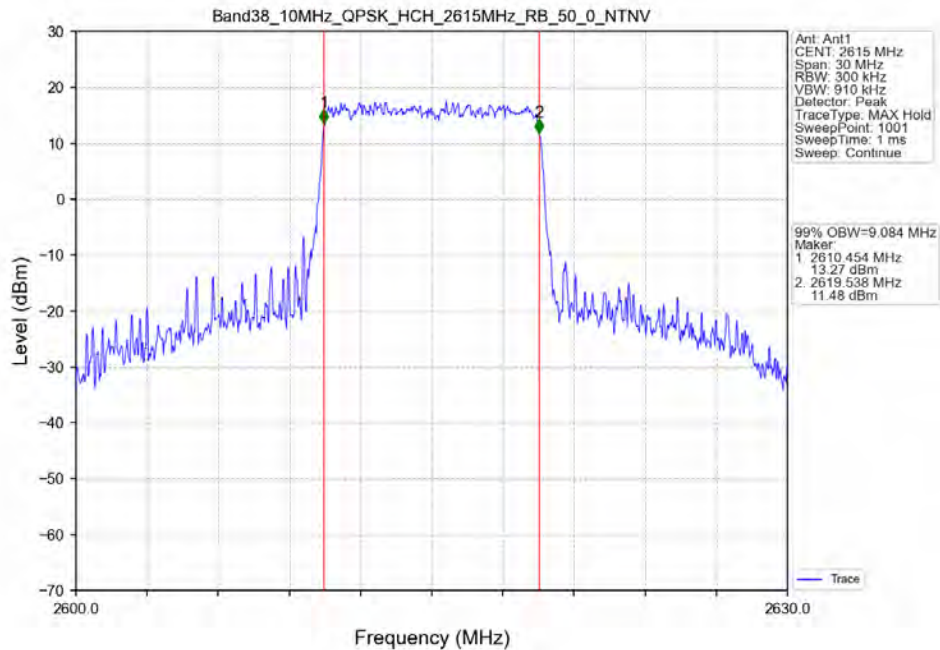
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240200059401

Rev.: 01

Page: 34 of 298

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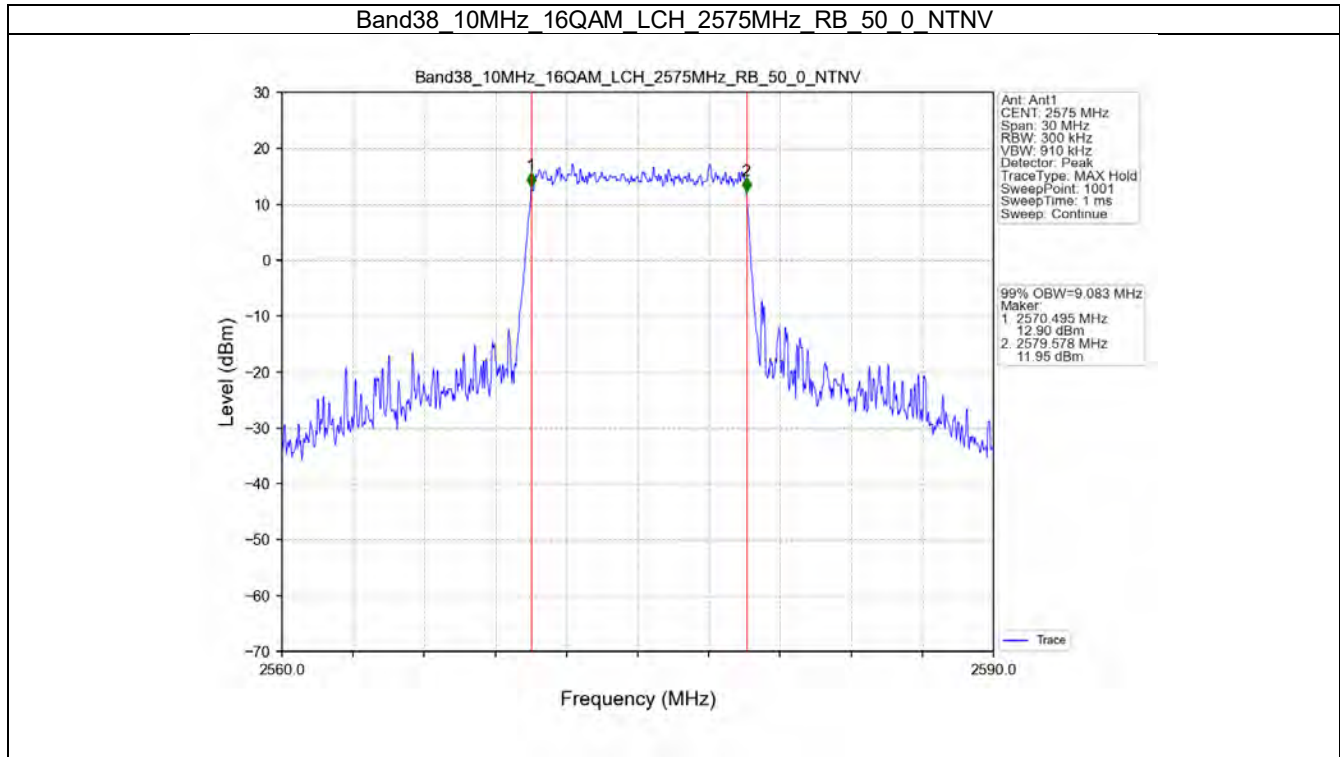


SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240200059401

Rev.: 01

Page: 35 of 298



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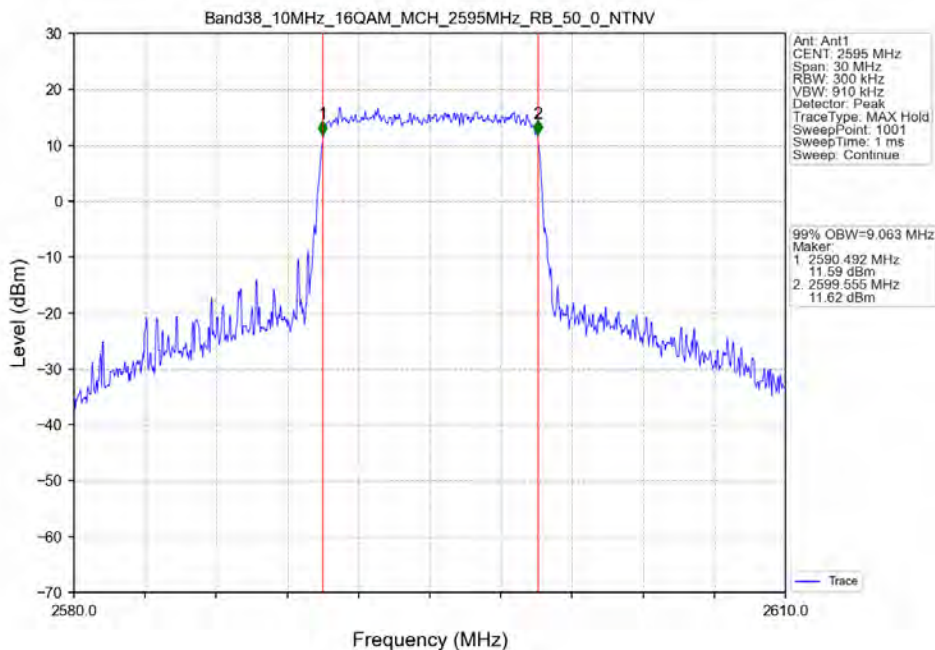
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240200059401

Rev.: 01

Page: 36 of 298

Band38_10MHz_16QAM_MCH_2595MHz_RB_50_0_NTNV



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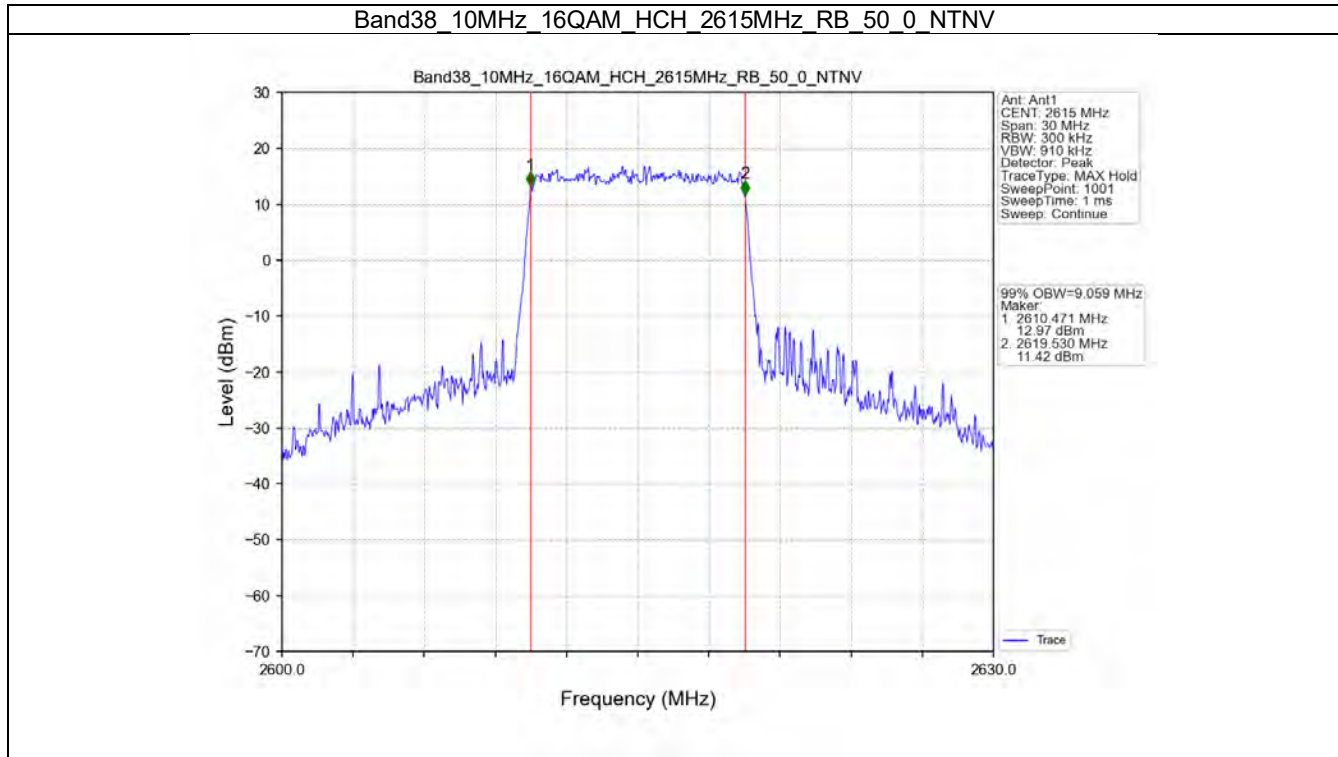


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Report No.: SZCR240200059401

Rev.: 01

Page: 37 of 298



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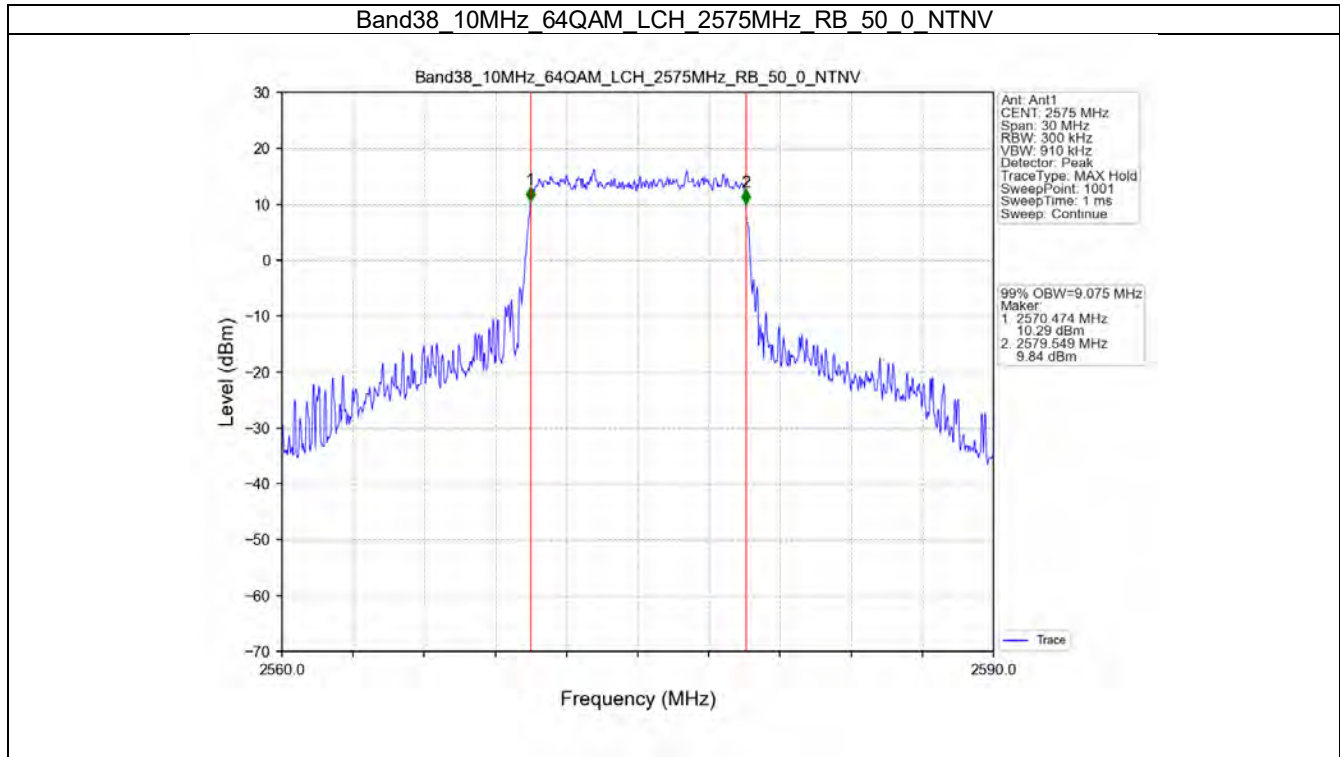


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Report No.: SZCR240200059401

Rev.: 01

Page: 38 of 298



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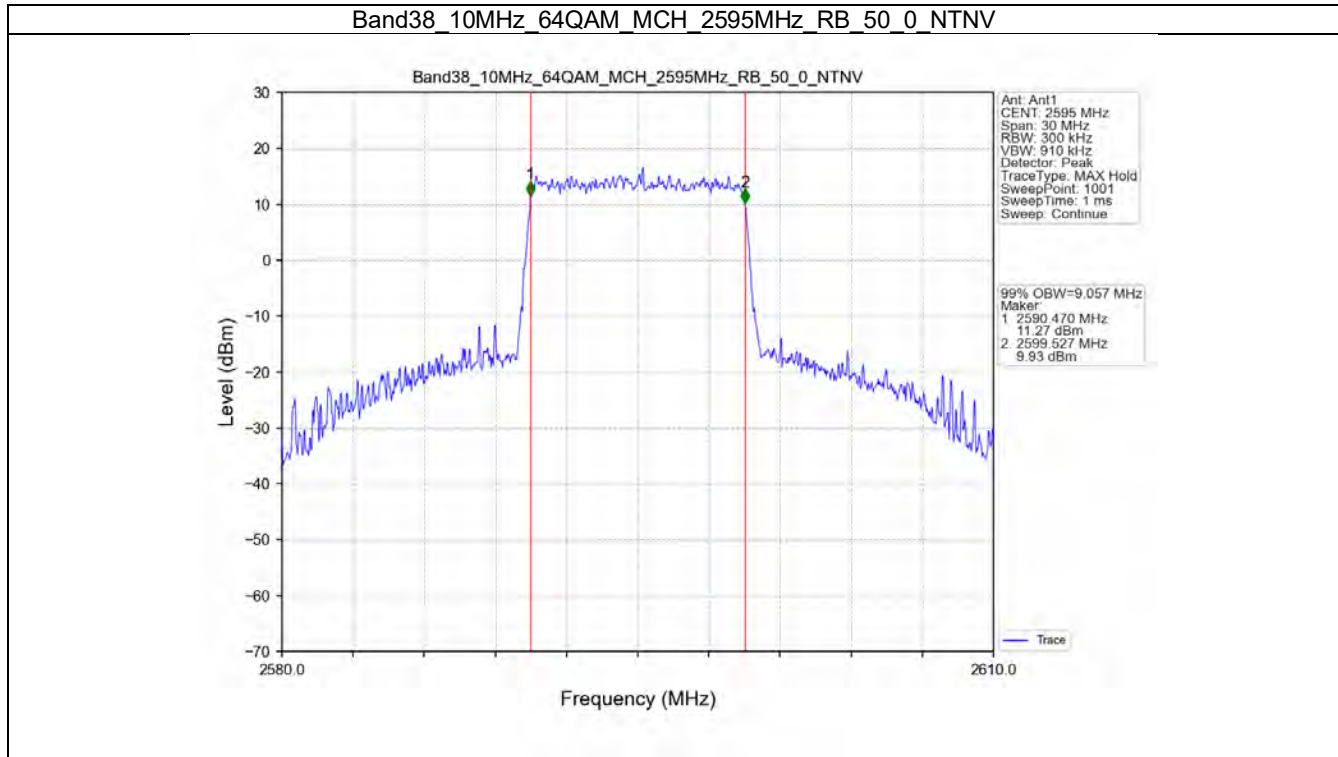


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Report No.: SZCR240200059401

Rev.: 01

Page: 39 of 298



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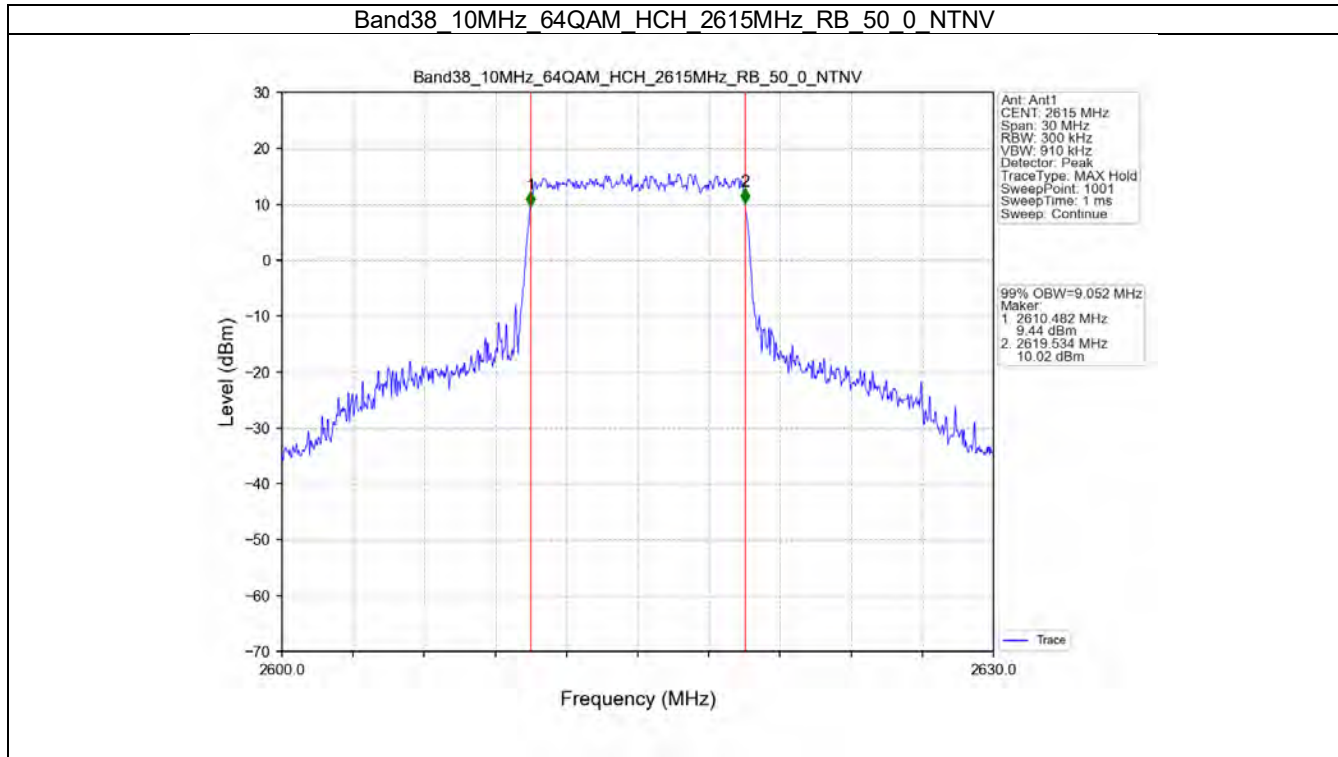


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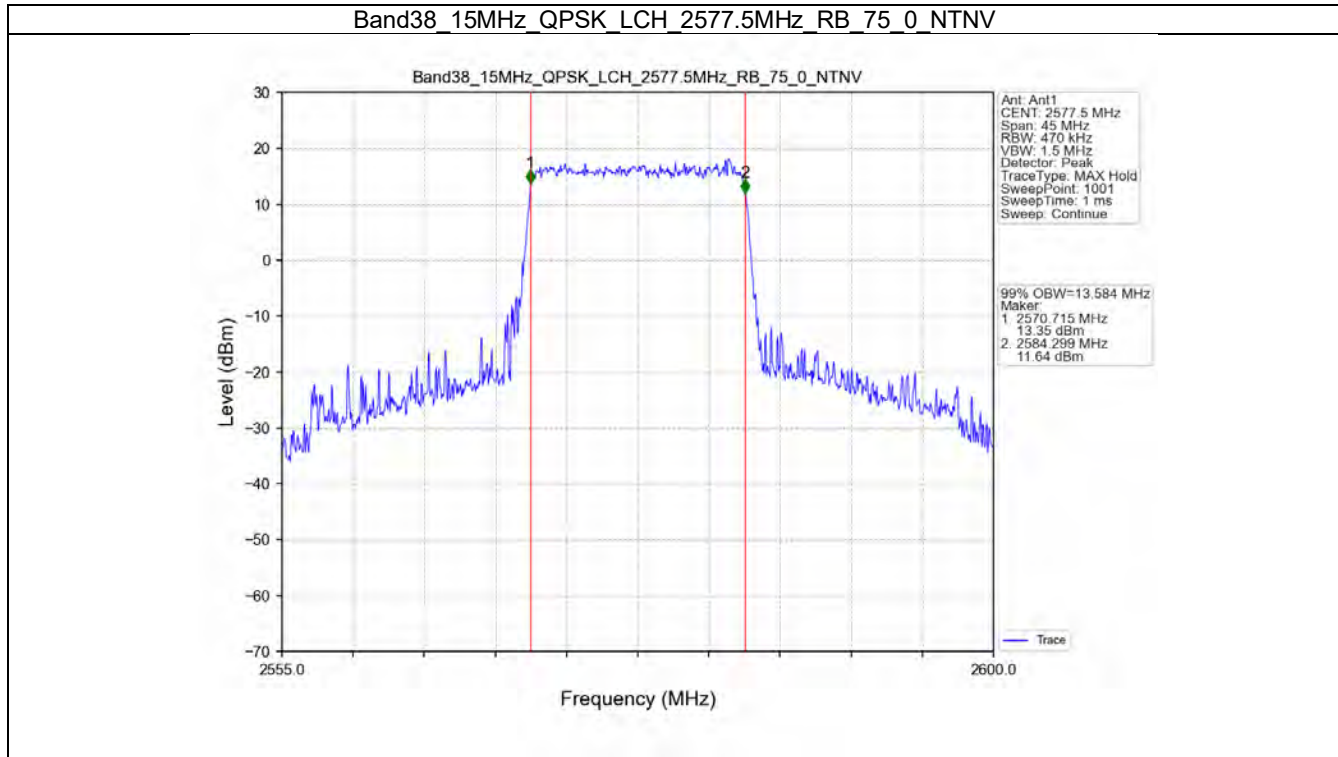


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Rev.: 01

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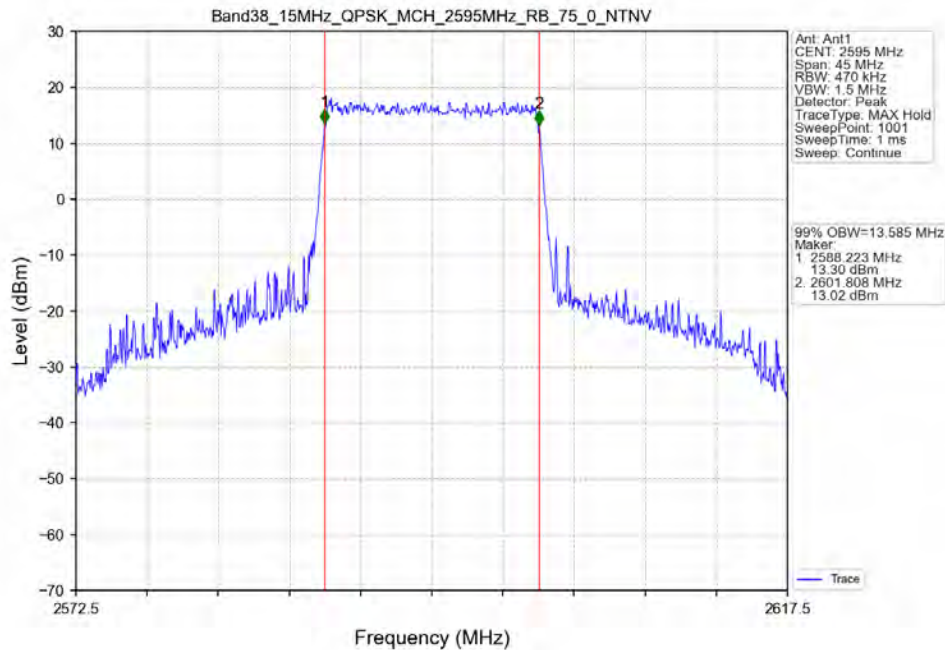
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Report No.: SZCR240200059401

Rev.: 01

Page: 42 of 298

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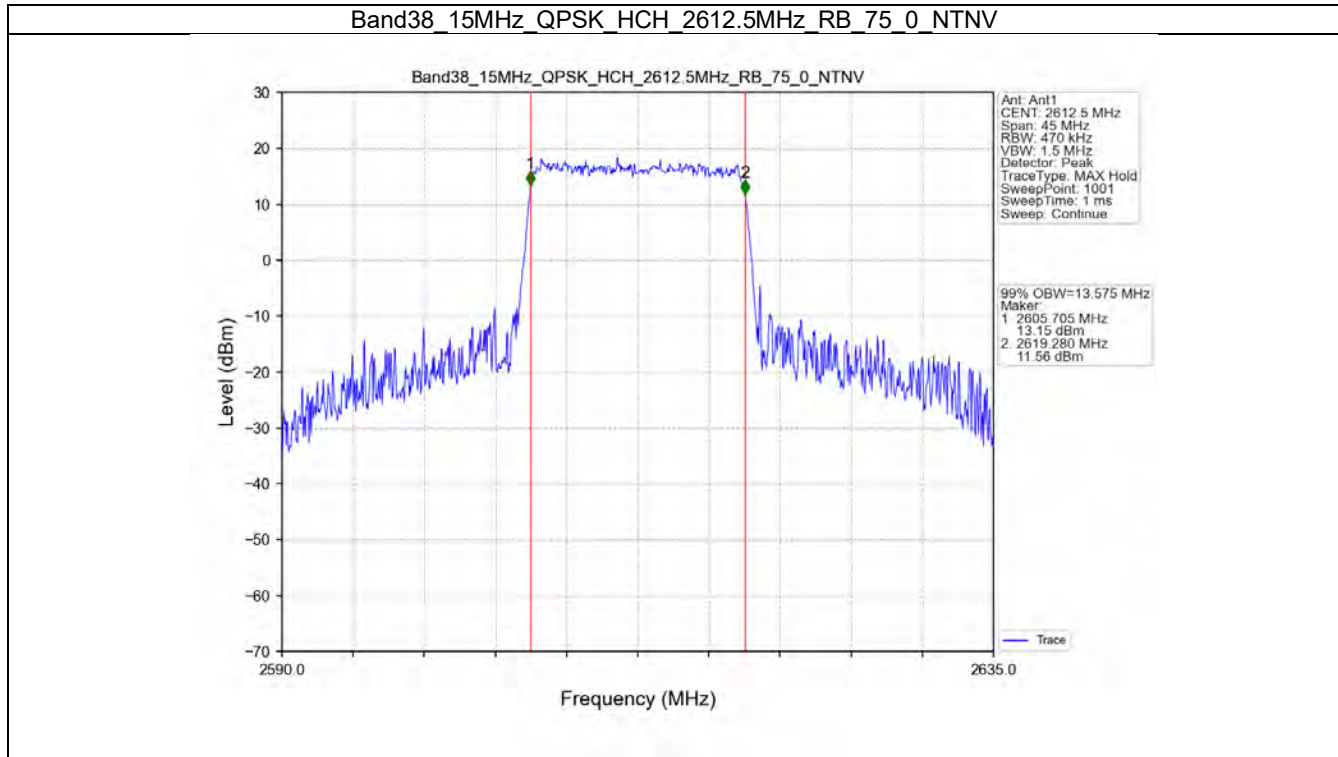


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Report No.: SZCR240200059401

Rev.: 01

Page: 43 of 298



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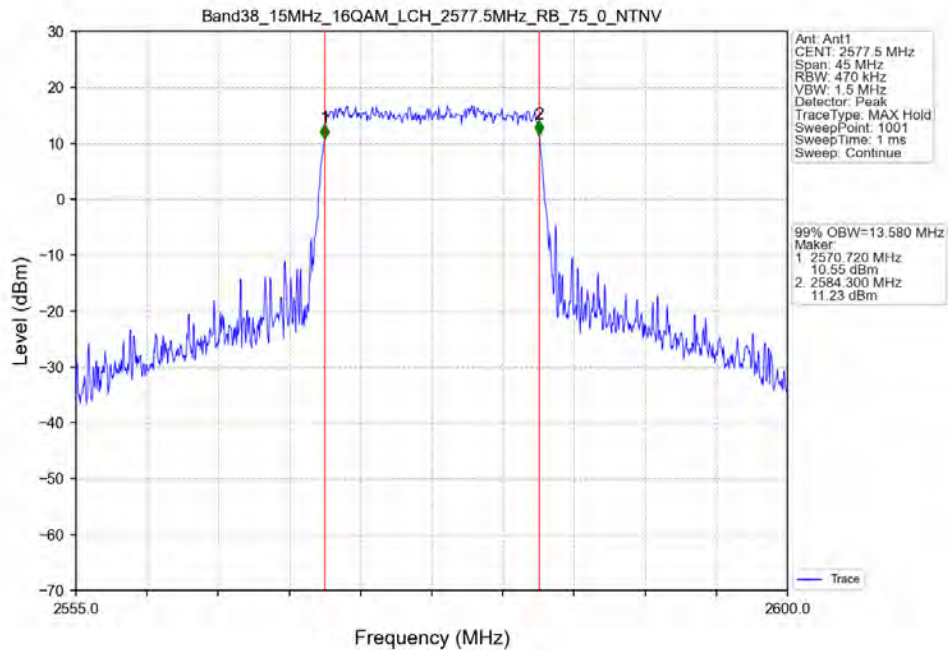
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Report No.: SZCR240200059401

Rev.: 01

Page: 44 of 298

Band38_15MHz_16QAM_LCH_2577.5MHz_RB_75_0_NTNV



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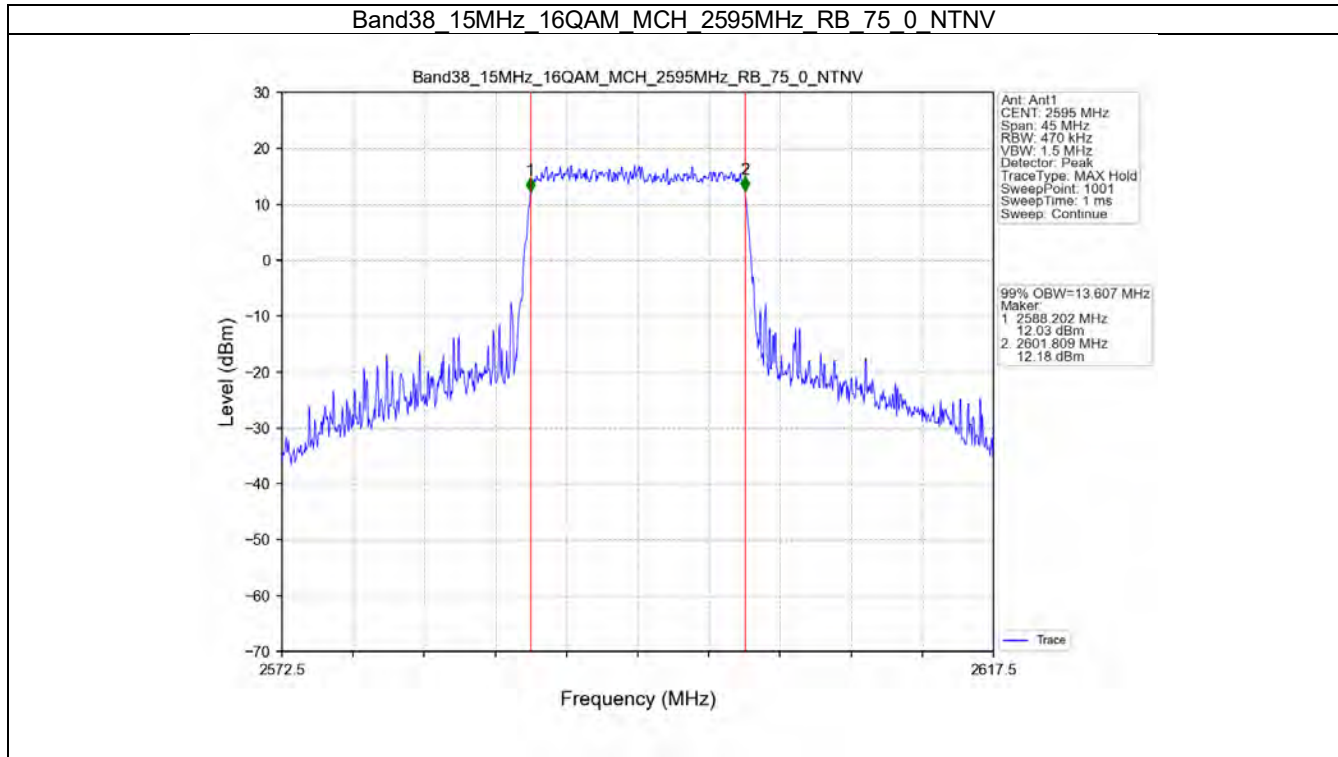


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Report No.: SZCR240200059401

Rev.: 01

Page: 45 of 298



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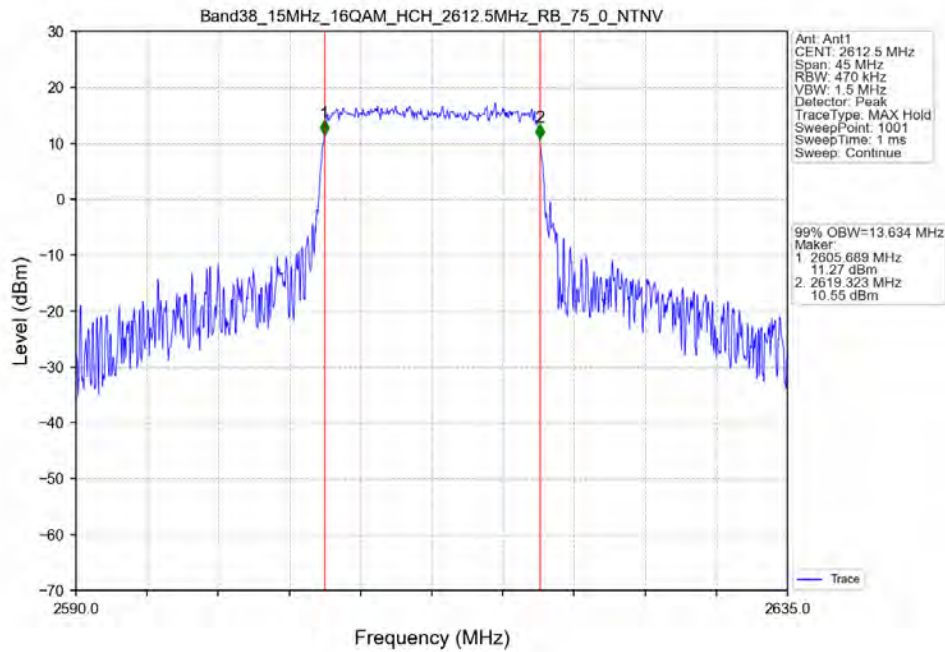
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Report No.: SZCR240200059401

Rev.: 01

Page: 46 of 298

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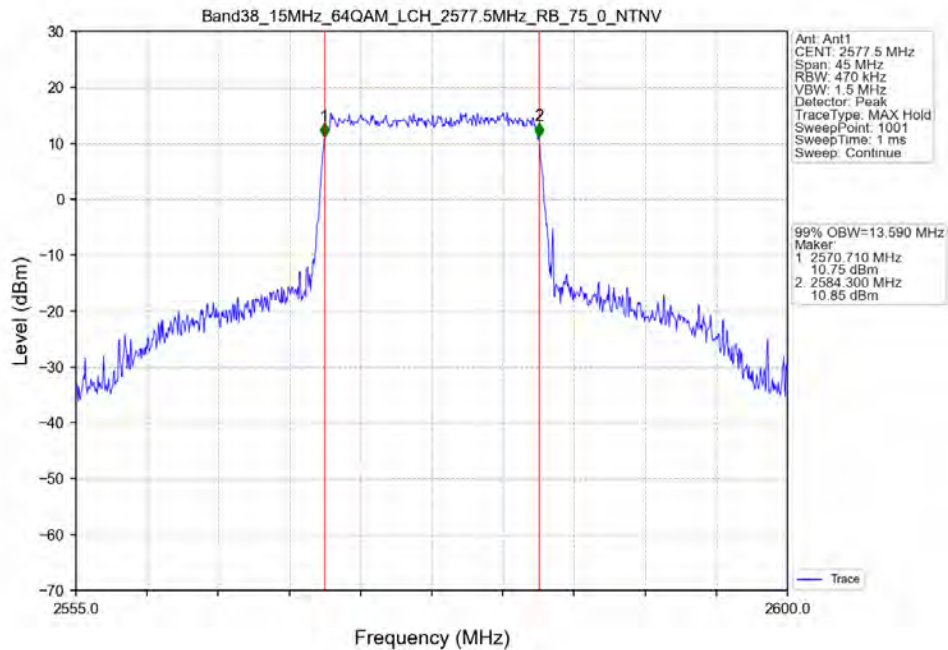
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Report No.: SZCR240200059401

Rev.: 01

Page: 47 of 298

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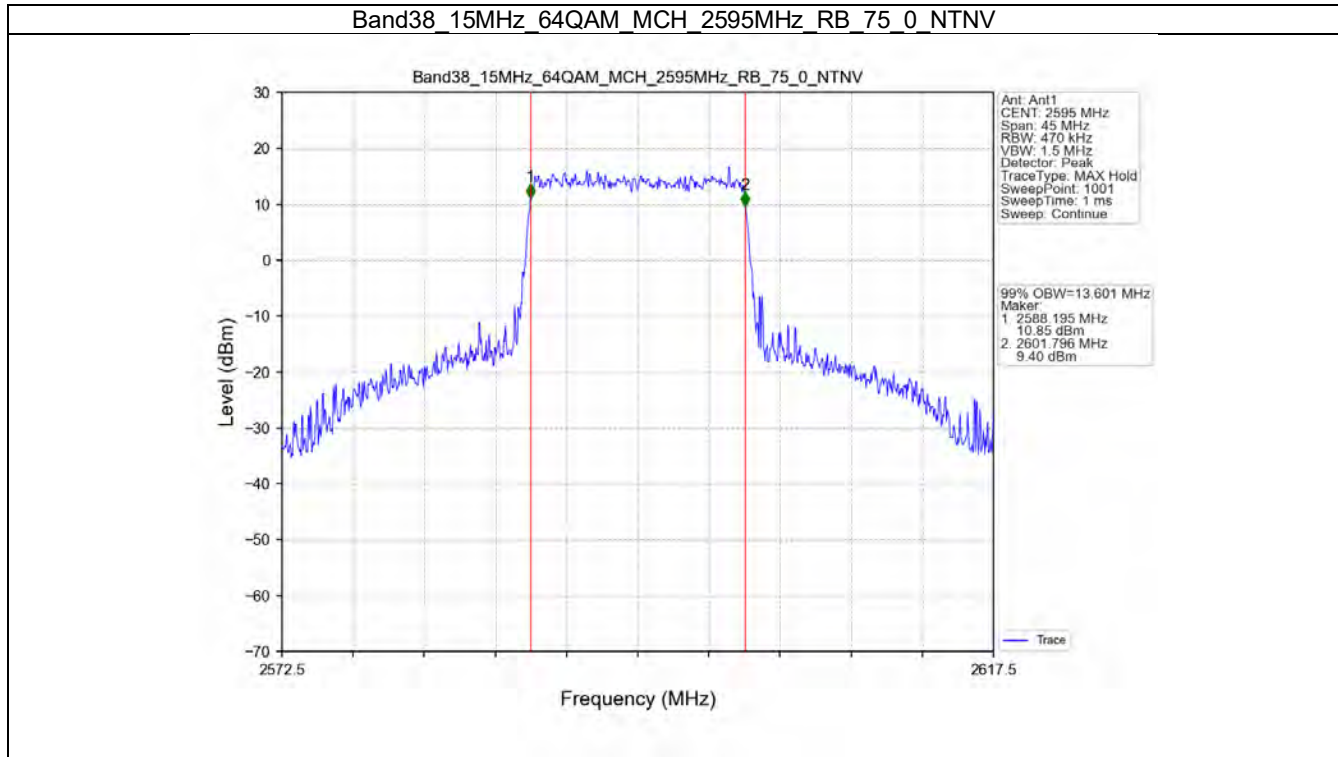


SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240200059401

Rev.: 01

Page: 48 of 298



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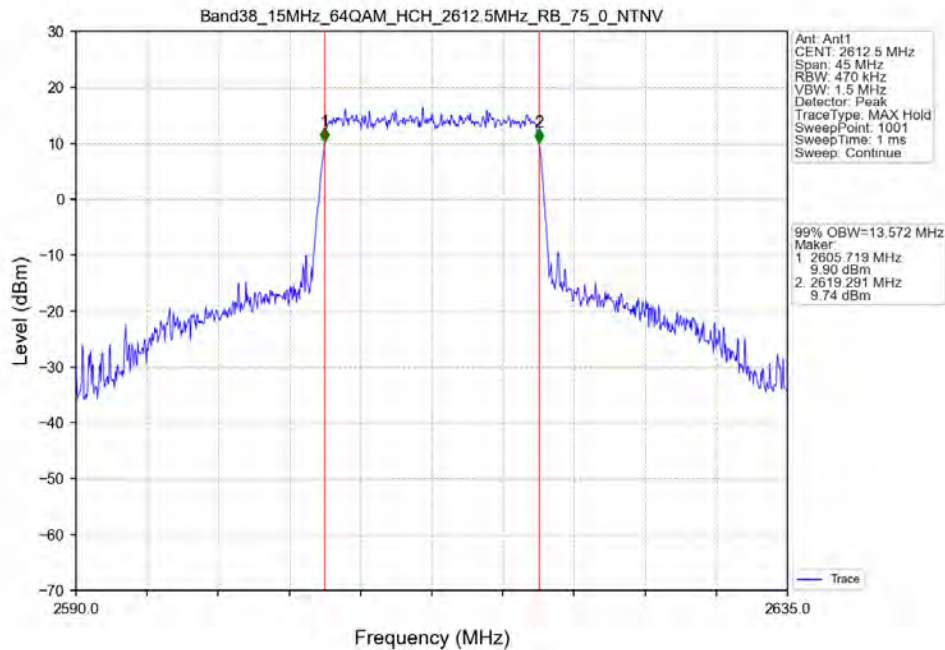
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Report No.: SZCR240200059401

Rev.: 01

Page: 49 of 298

Band38_15MHz_64QAM_HCH_2612.5MHz_RB_75_0_NTNV



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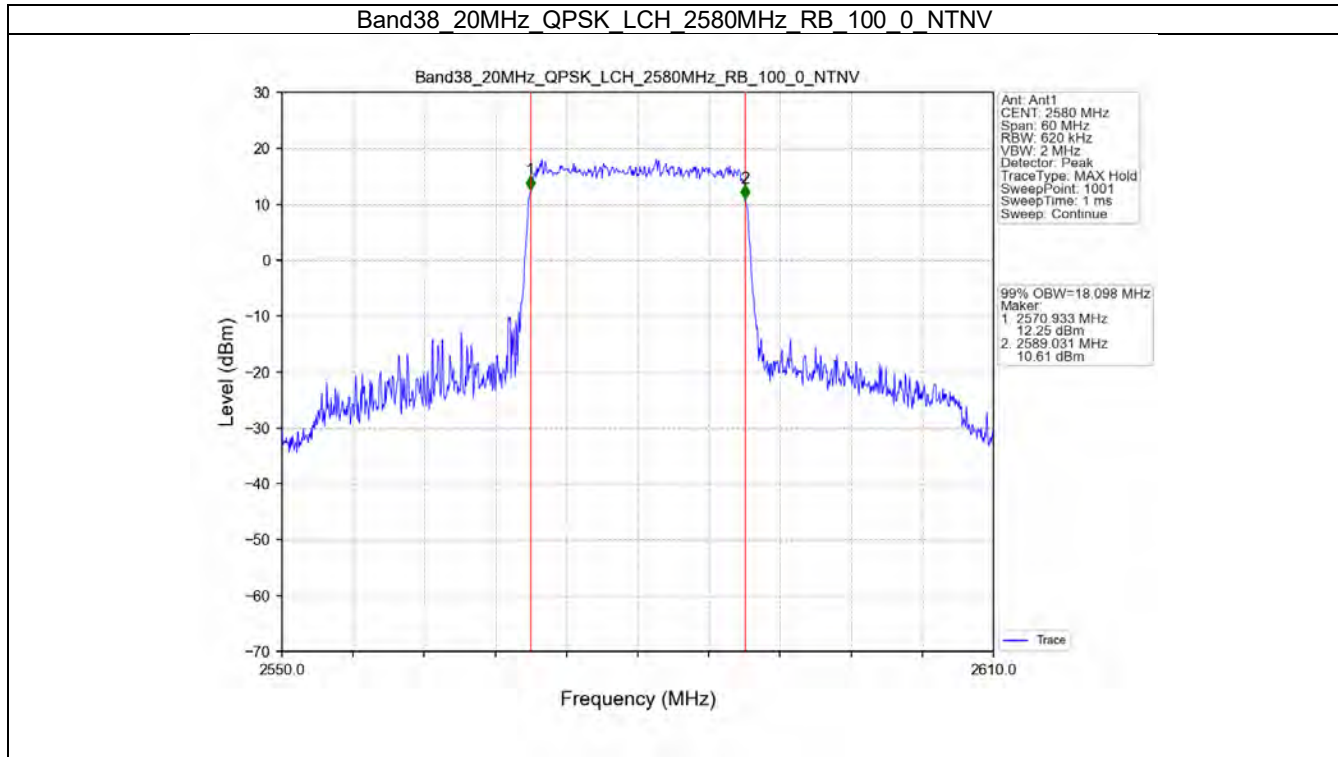


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Report No.: SZCR240200059401

Rev.: 01

Page: 50 of 298



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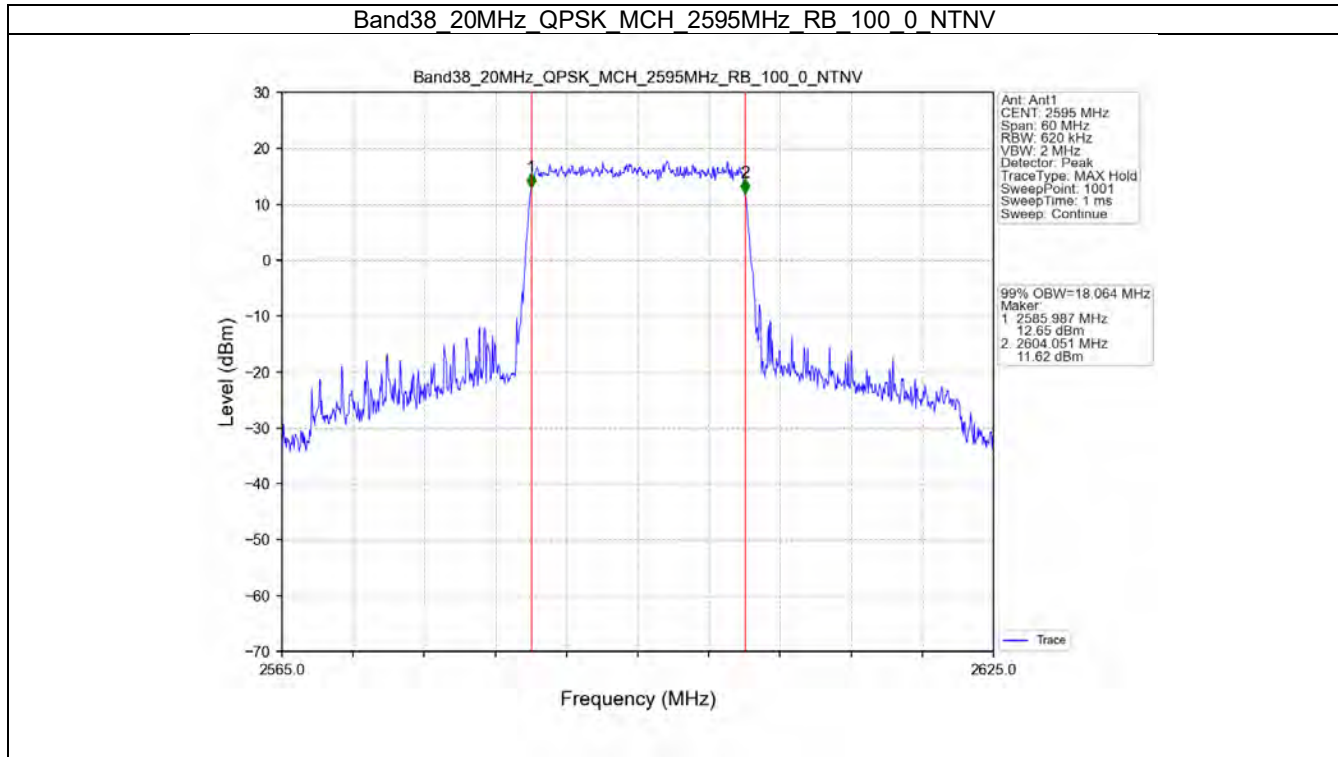


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Report No.: SZCR240200059401

Rev.: 01

Page: 51 of 298



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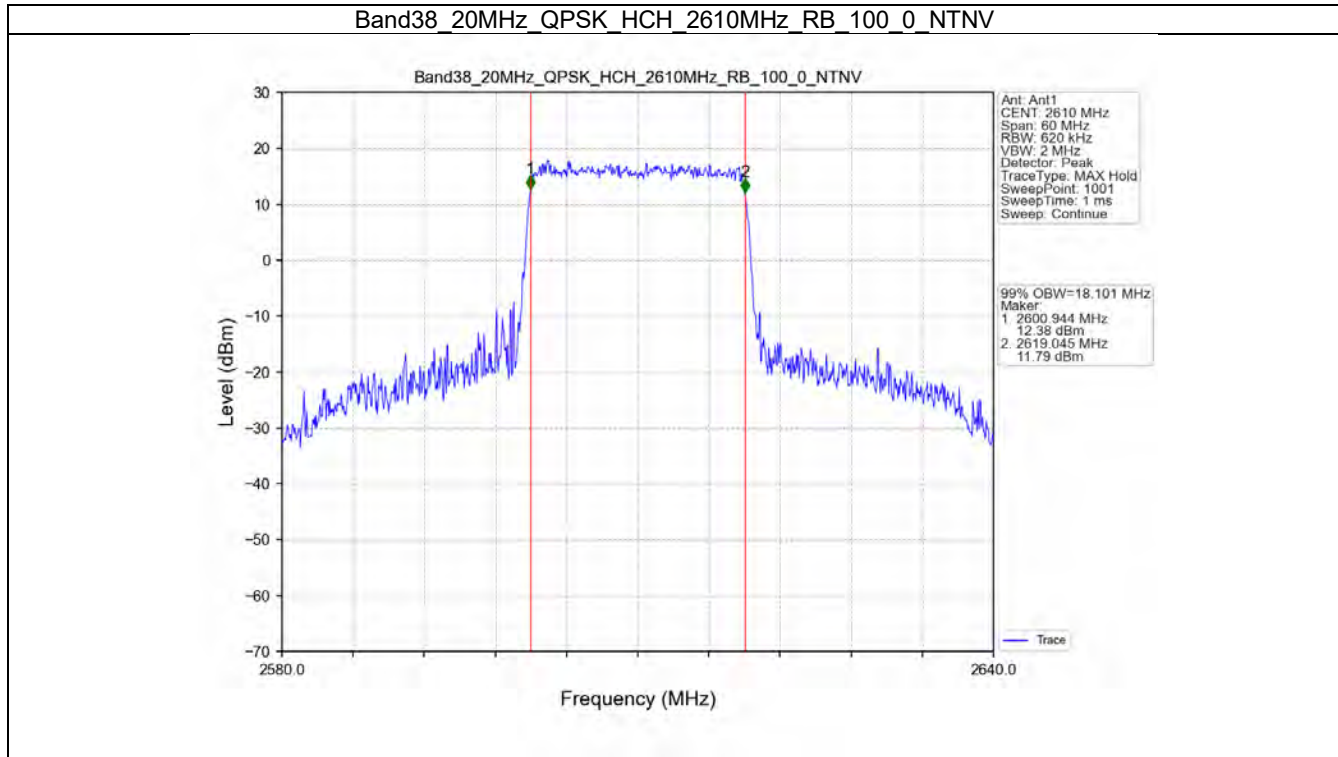


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Report No.: SZCR240200059401

Rev.: 01

Page: 52 of 298



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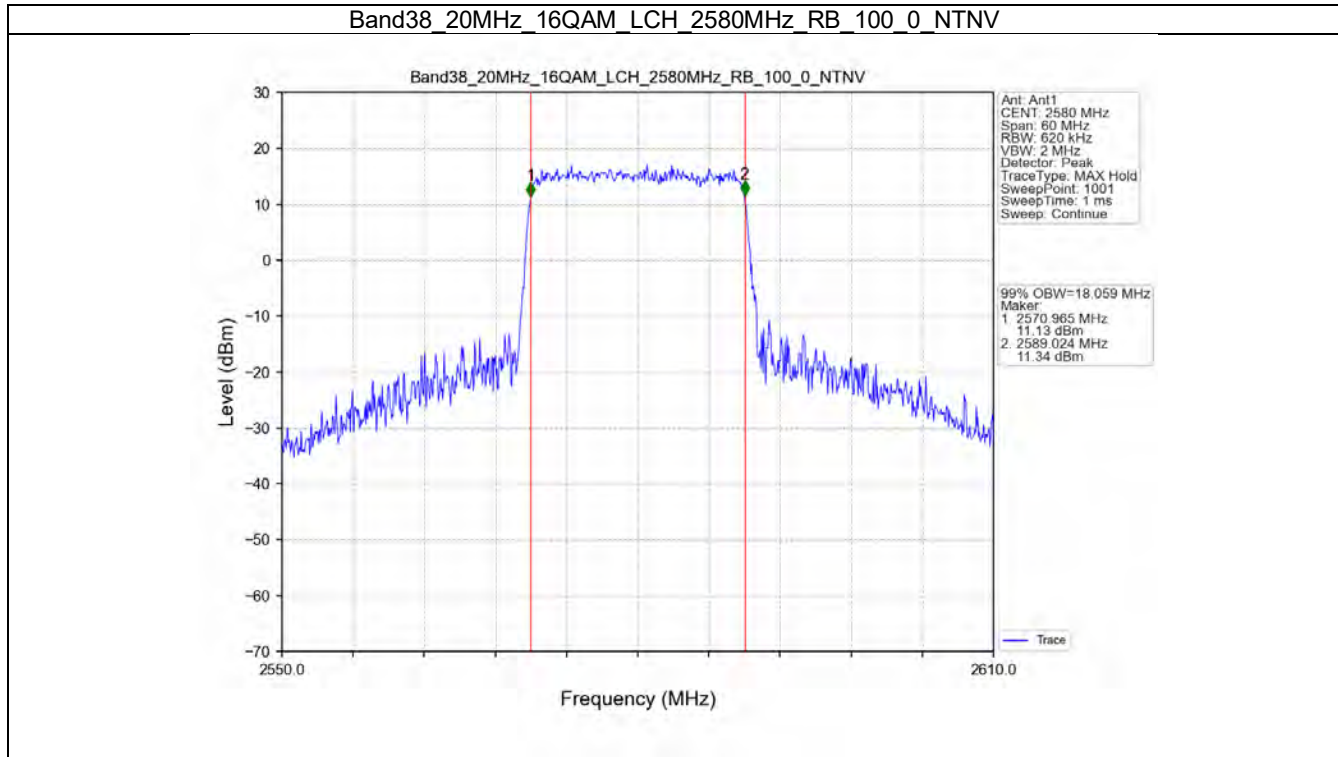


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Report No.: SZCR240200059401

Rev.: 01

Page: 53 of 298



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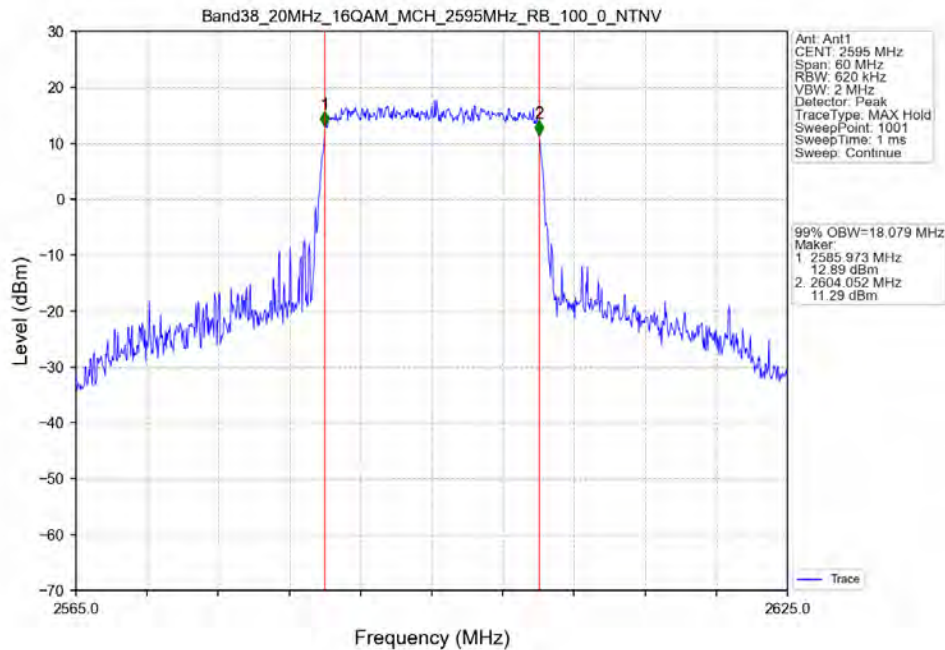
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Report No.: SZCR240200059401

Rev.: 01

Page: 54 of 298

Band38_20MHz_16QAM_MCH_2595MHz_RB_100_0_NTNV



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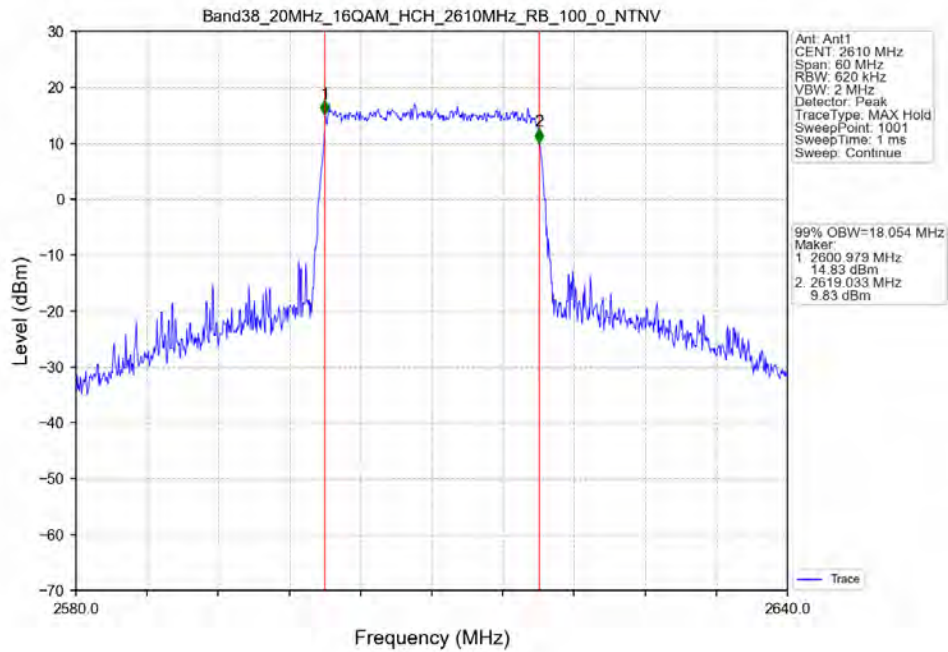
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Report No.: SZCR240200059401

Rev.: 01

Page: 55 of 298

Band38_20MHz_16QAM_HCH_2610MHz_RB_100_0_NTNV



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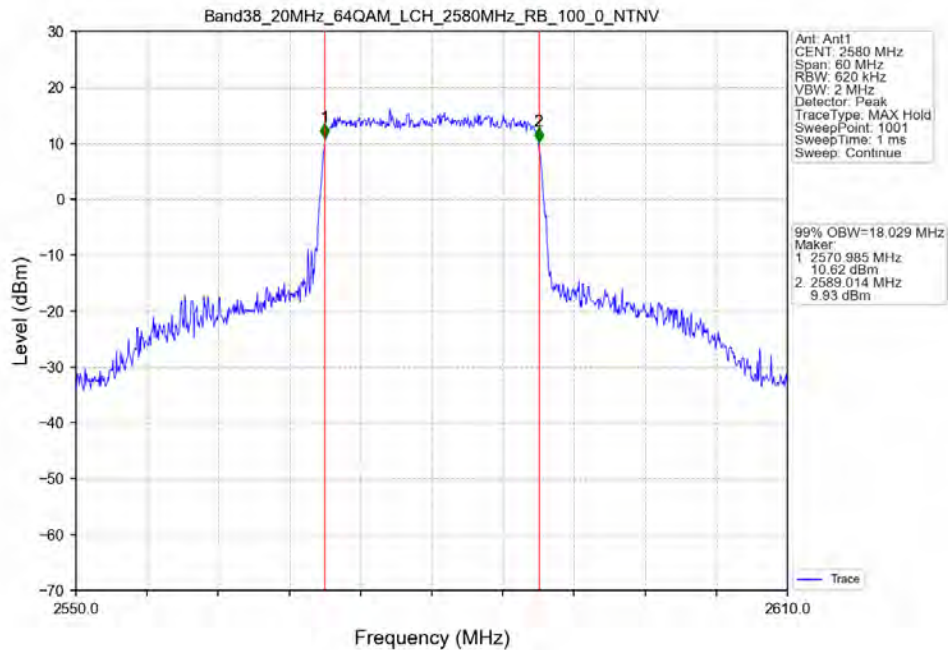
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Report No.: SZCR240200059401

Rev.: 01

Page: 56 of 298

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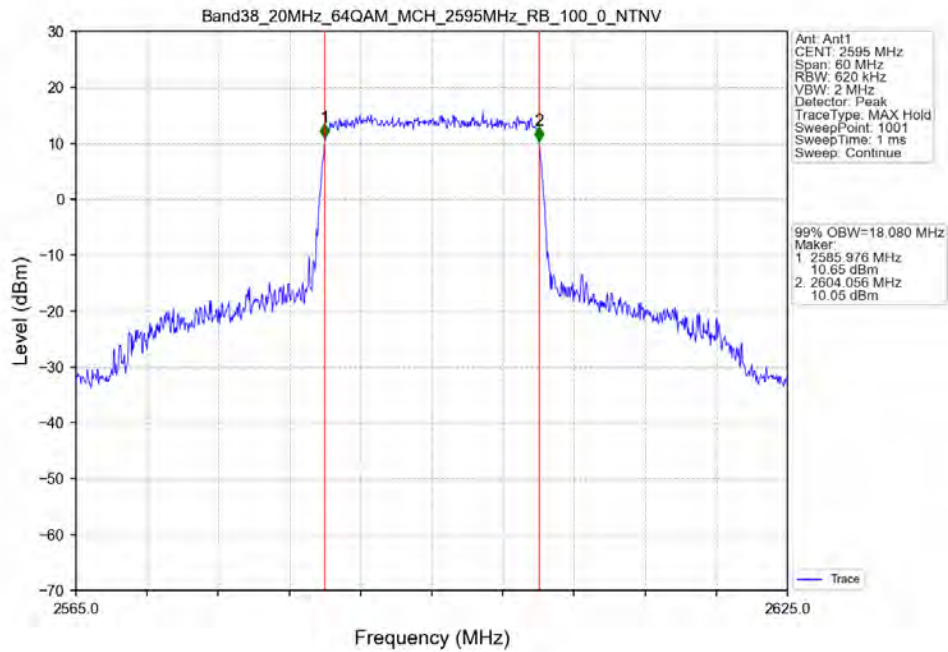
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Report No.: SZCR240200059401

Rev.: 01

Page: 57 of 298

Band38_20MHz_64QAM_MCH_2595MHz_RB_100_0_NTNV



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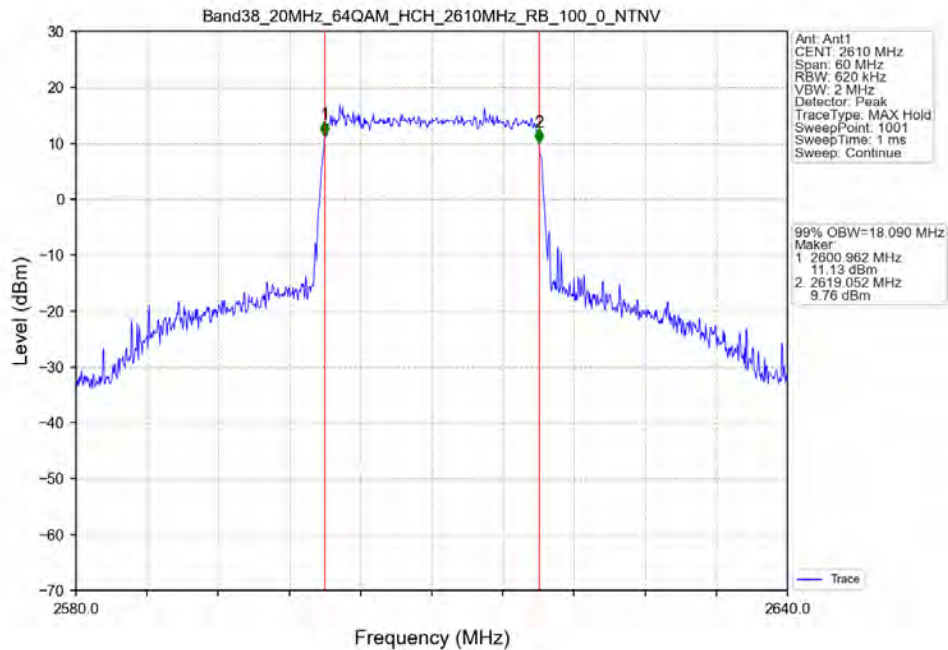
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Report No.: SZCR240200059401

Rev.: 01

Page: 58 of 298

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

Report No.: SZCR240200059401

Rev.: 01

Page: 59 of 298

3.2 Band38_XDB

3.2.1 Test Result

Band: 38 / NTN							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2572.5	25	0	5.021	/	Pass
		2595	25	0	5.129	/	Pass
		2617.5	25	0	5.009	/	Pass
	16QAM	2572.5	25	0	5.011	/	Pass
		2595	25	0	5.031	/	Pass
		2617.5	25	0	5.305	/	Pass
	64QAM	2572.5	25	0	5.226	/	Pass
		2595	25	0	5.024	/	Pass
		2617.5	25	0	5.160	/	Pass
10	QPSK	2575	50	0	9.942	/	Pass
		2595	50	0	10.252	/	Pass
		2615	50	0	10.384	/	Pass
	16QAM	2575	50	0	10.301	/	Pass
		2595	50	0	10.105	/	Pass
		2615	50	0	9.906	/	Pass
	64QAM	2575	50	0	11.027	/	Pass
		2595	50	0	9.873	/	Pass
		2615	50	0	10.322	/	Pass
15	QPSK	2577.5	75	0	15.215	/	Pass
		2595	75	0	15.405	/	Pass
		2612.5	75	0	15.239	/	Pass
	16QAM	2577.5	75	0	15.570	/	Pass
		2595	75	0	16.141	/	Pass
		2612.5	75	0	17.017	/	Pass
	64QAM	2577.5	75	0	15.114	/	Pass
		2595	75	0	15.716	/	Pass
		2612.5	75	0	15.466	/	Pass
20	QPSK	2580	100	0	19.670	/	Pass
		2595	100	0	20.094	/	Pass
		2610	100	0	20.235	/	Pass
	16QAM	2580	100	0	19.826	/	Pass
		2595	100	0	20.903	/	Pass
		2610	100	0	19.751	/	Pass
	64QAM	2580	100	0	20.262	/	Pass
		2595	100	0	20.160	/	Pass
		2610	100	0	20.544	/	Pass



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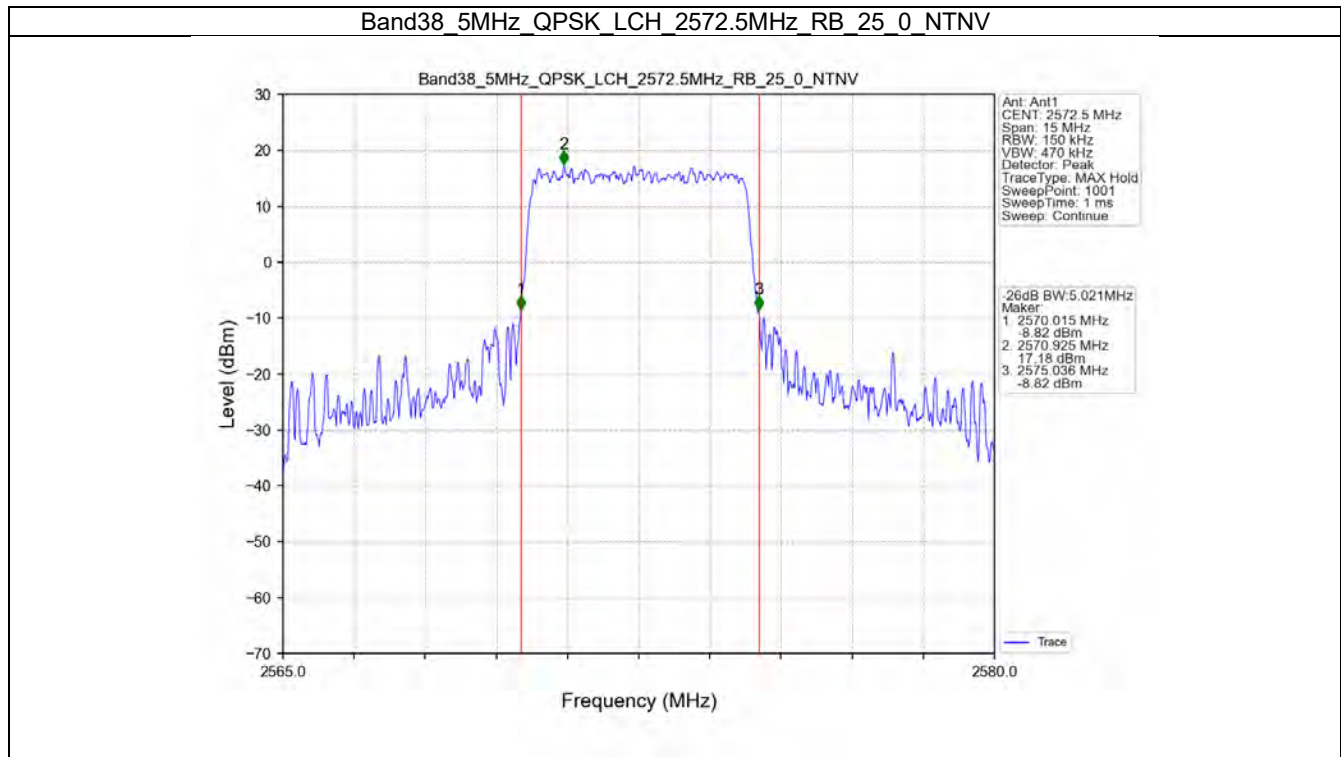
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Report No.: SZCR240200059401

Rev.: 01

Page: 60 of 298

3.2.2 Test Graph



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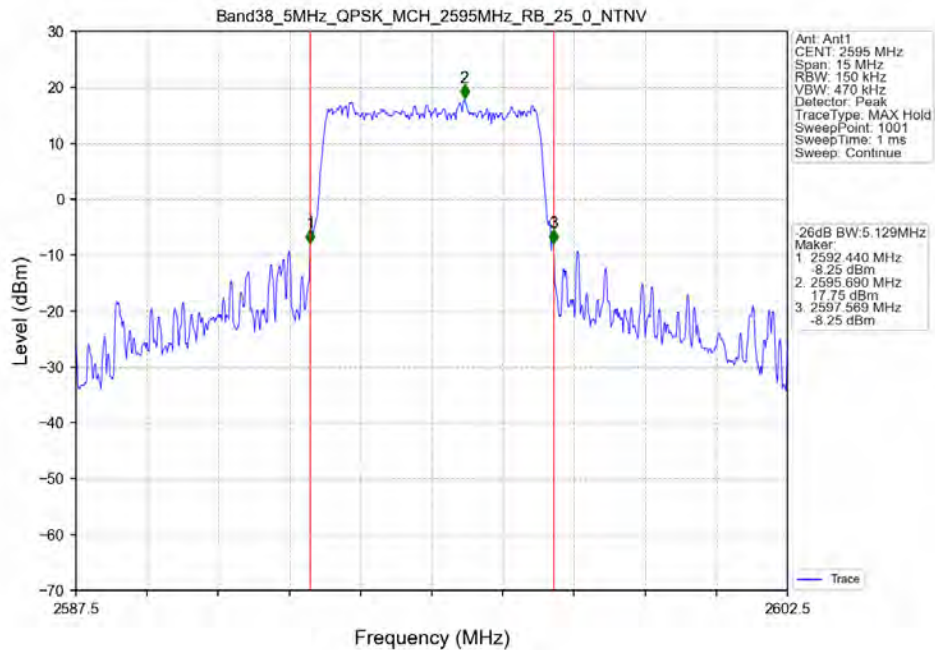
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240200059401

Rev.: 01

Page: 61 of 298

Band38_5MHz_QPSK_MCH_2595MHz_RB_25_0_NTNV



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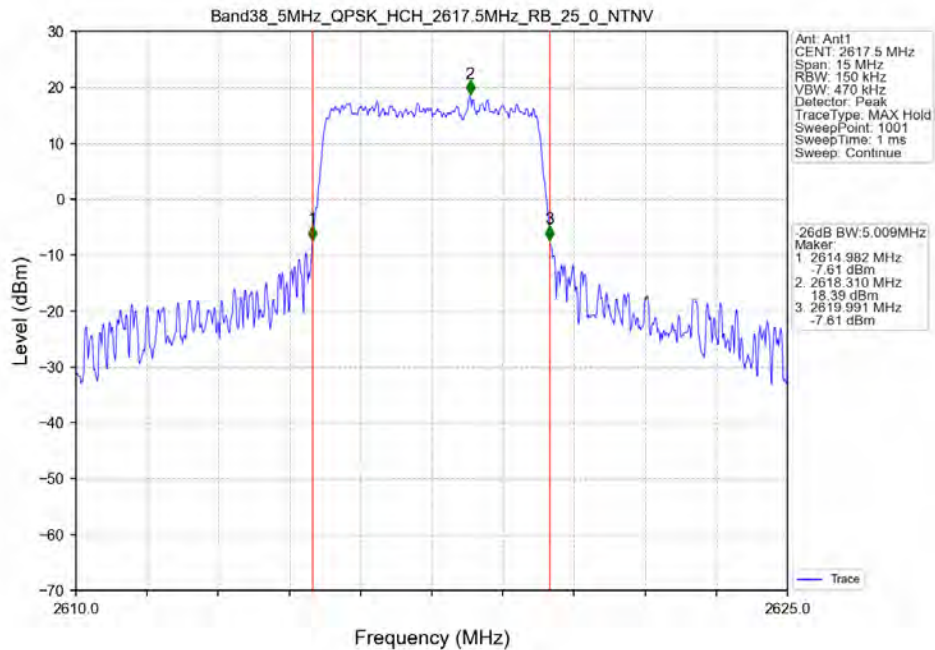
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240200059401

Rev.: 01

Page: 62 of 298

Band38_5MHz_QPSK_HCH_2617.5MHz_RB_25_0_NTNV



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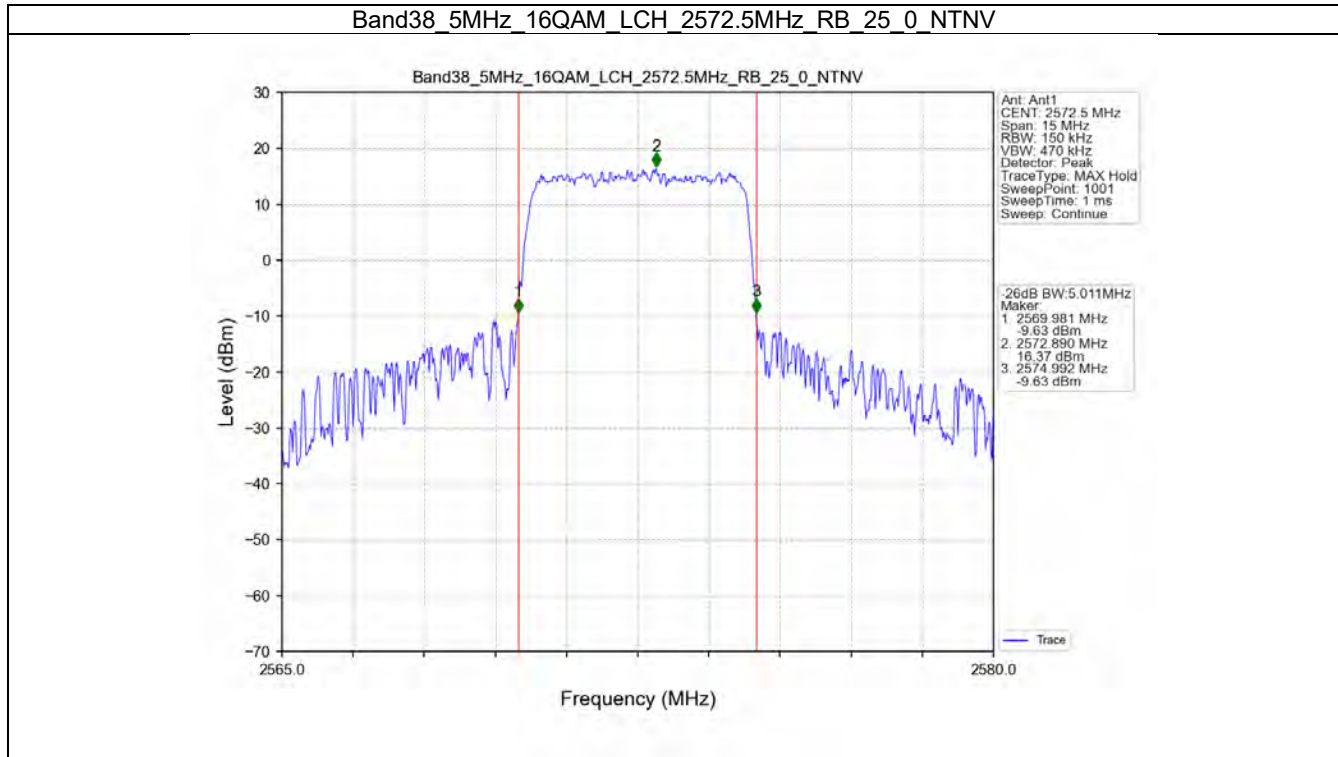


SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240200059401

Rev.: 01

Page: 63 of 298



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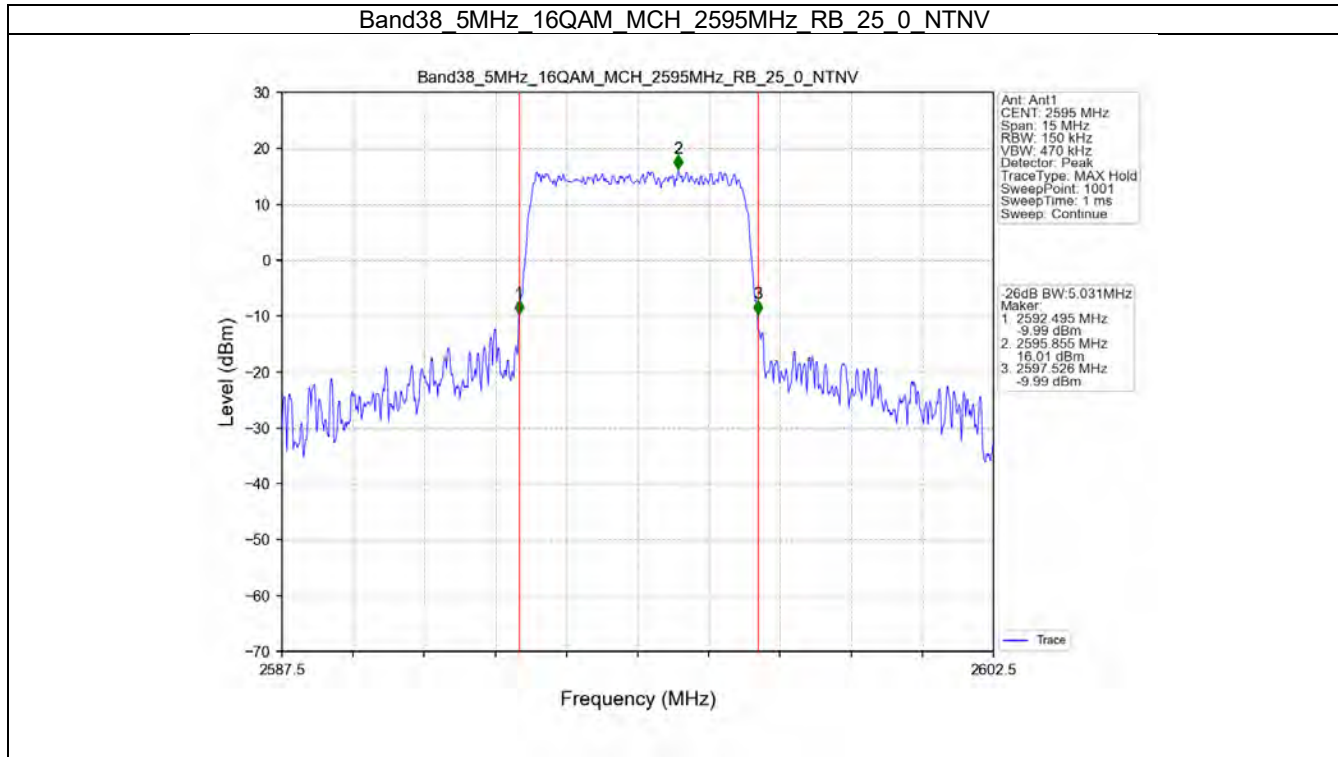


SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240200059401

Rev.: 01

Page: 64 of 298



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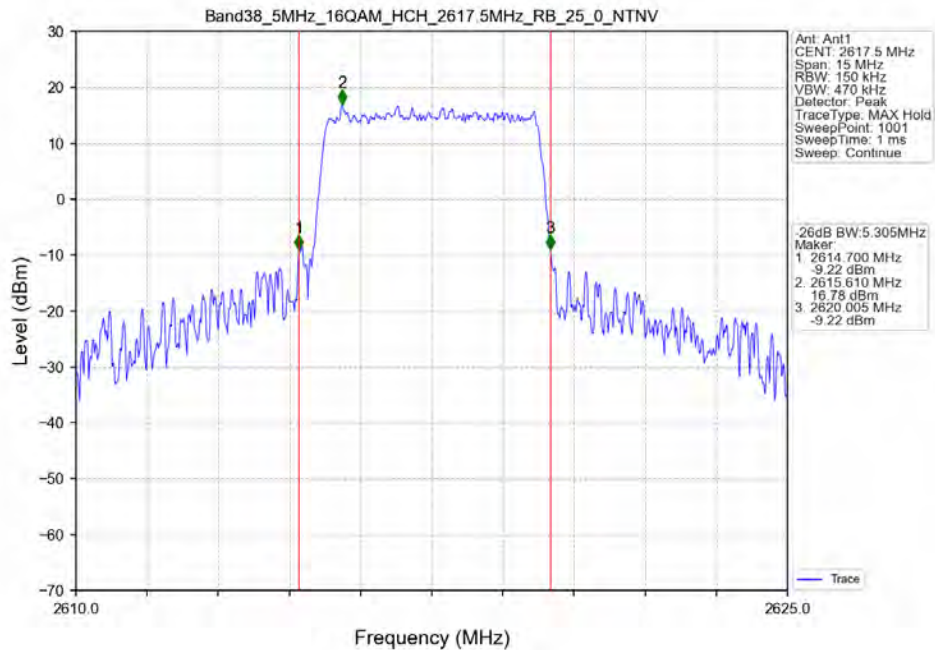
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Report No.: SZCR240200059401

Rev.: 01

Page: 65 of 298

Band38_5MHz_16QAM_HCH_2617.5MHz_RB_25_0_NTNV



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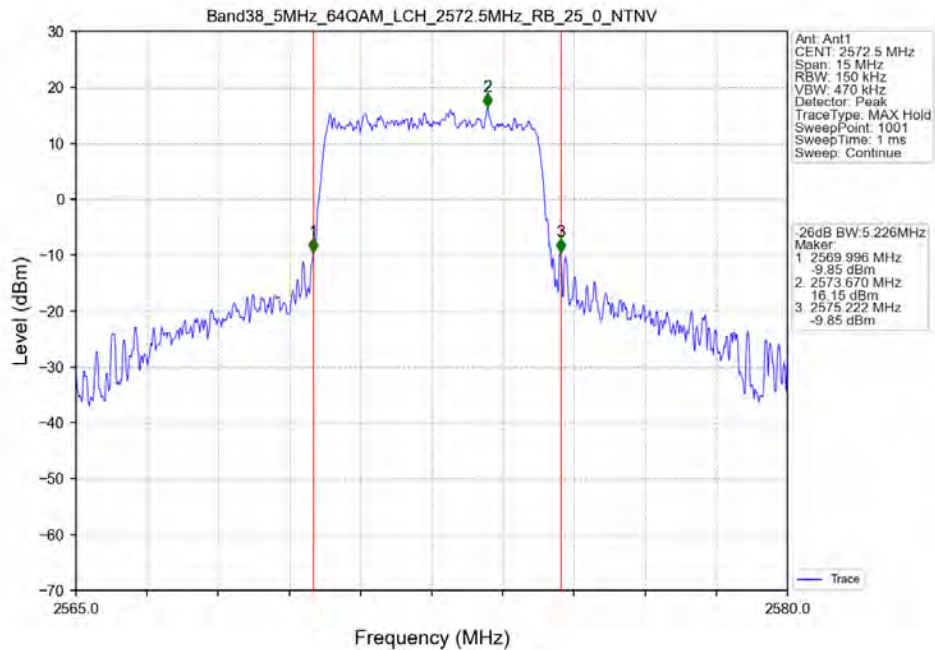
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Report No.: SZCR240200059401

Rev.: 01

Page: 66 of 298

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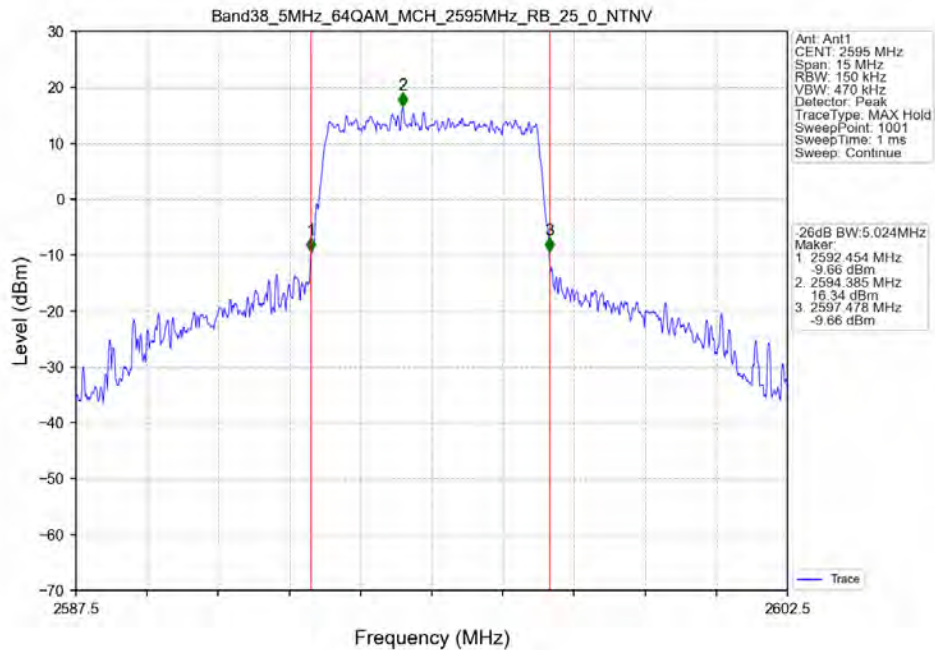
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Report No.: SZCR240200059401

Rev.: 01

Page: 67 of 298

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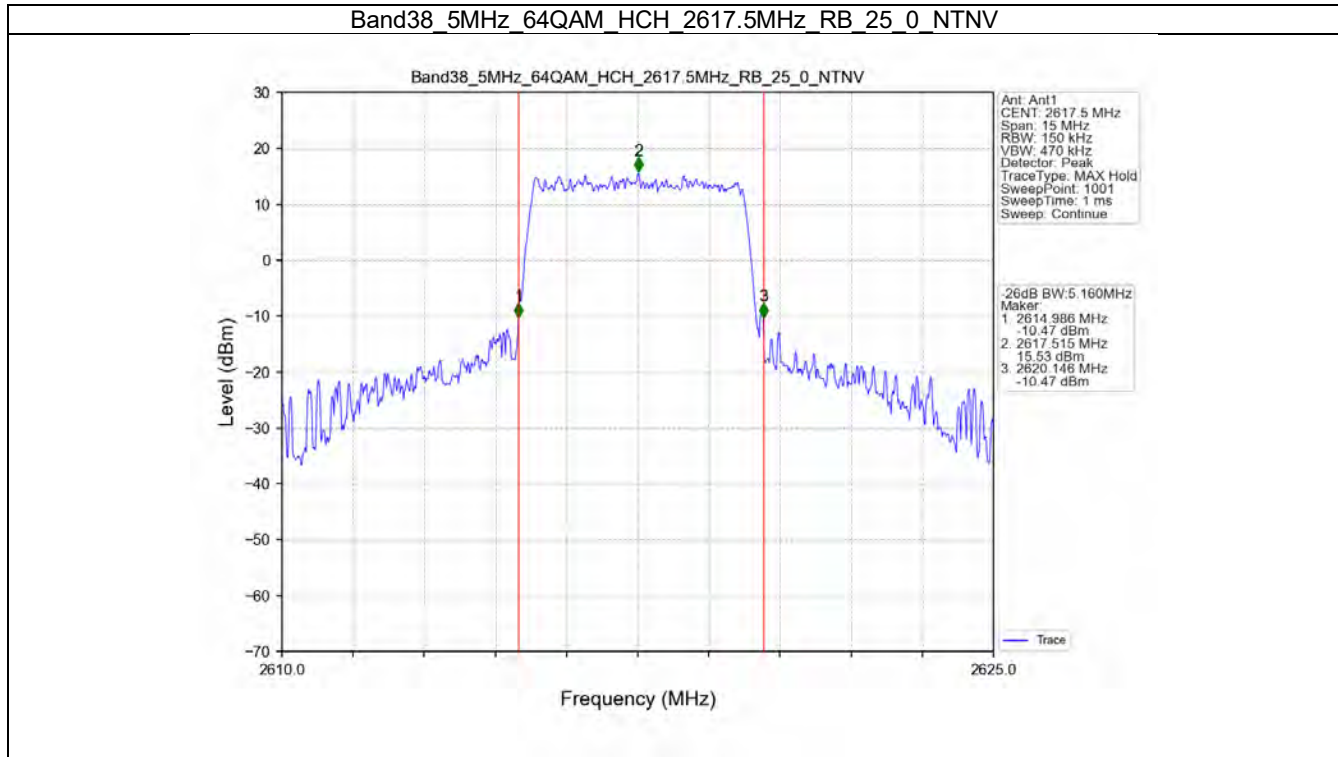


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Report No.: SZCR240200059401

Rev.: 01

Page: 68 of 298



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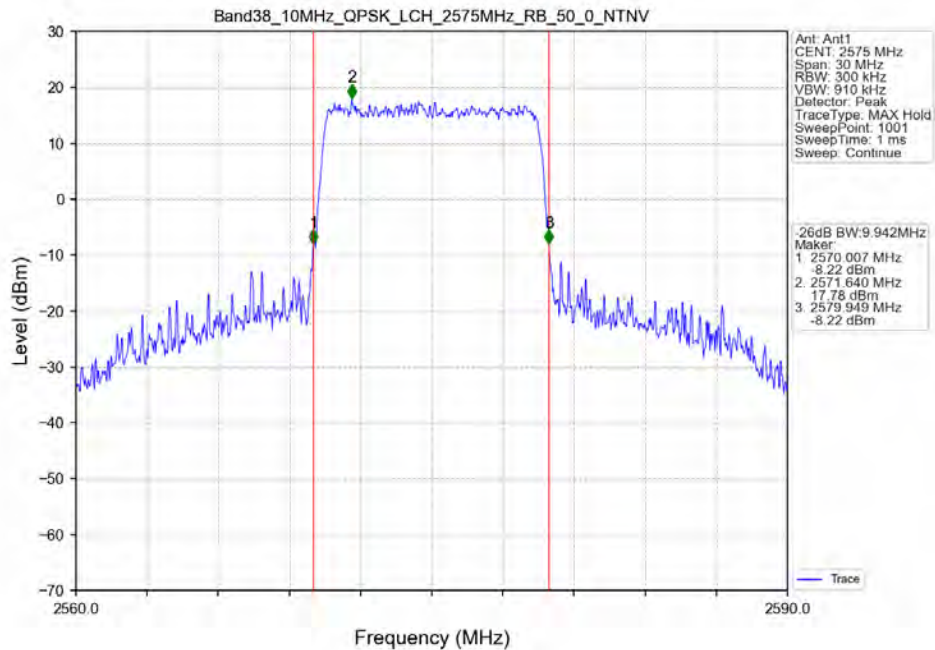
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Report No.: SZCR240200059401

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Page: 69 of 298

Band38_10MHz_QPSK_LCH_2575MHz_RB_50_0_NTNV



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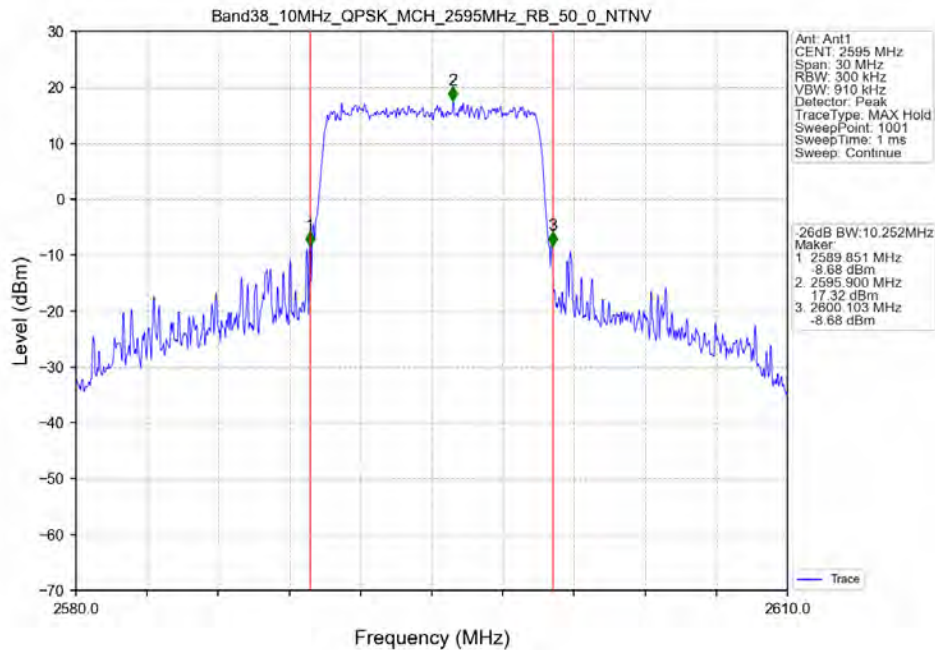
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Report No.: SZCR240200059401

Rev.: 01

Page: 70 of 298

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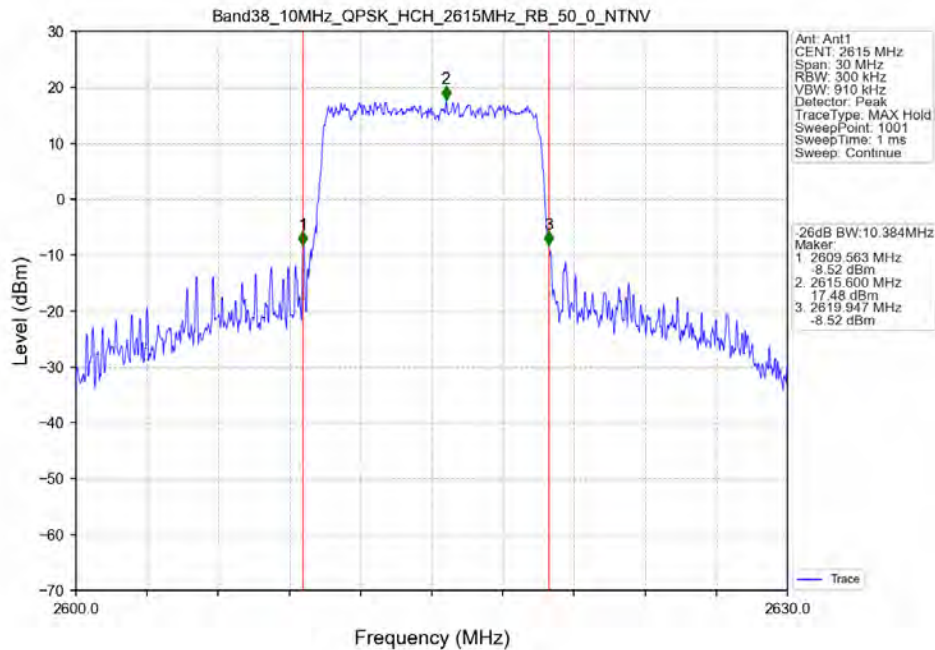
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Rev.: 01

Page: 71 of 298

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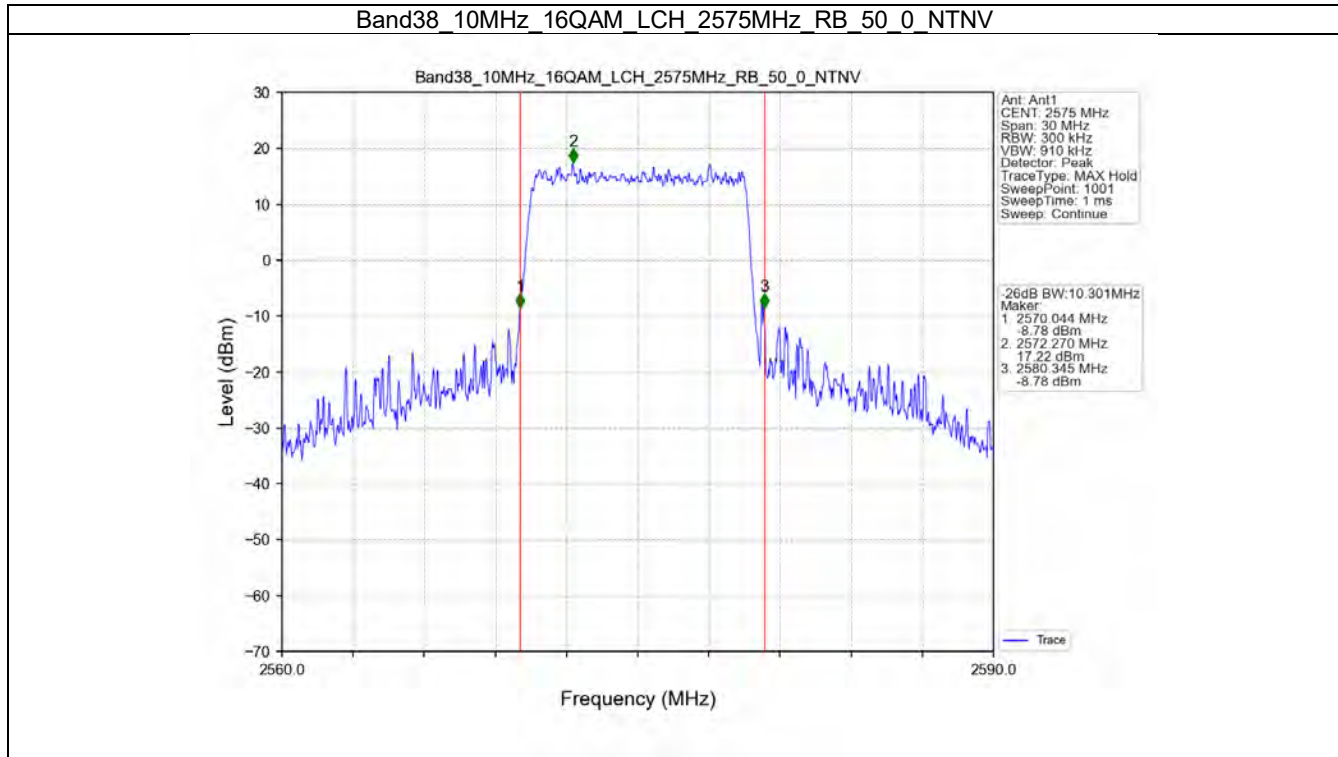


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Report No.: SZCR240200059401

Rev.: 01

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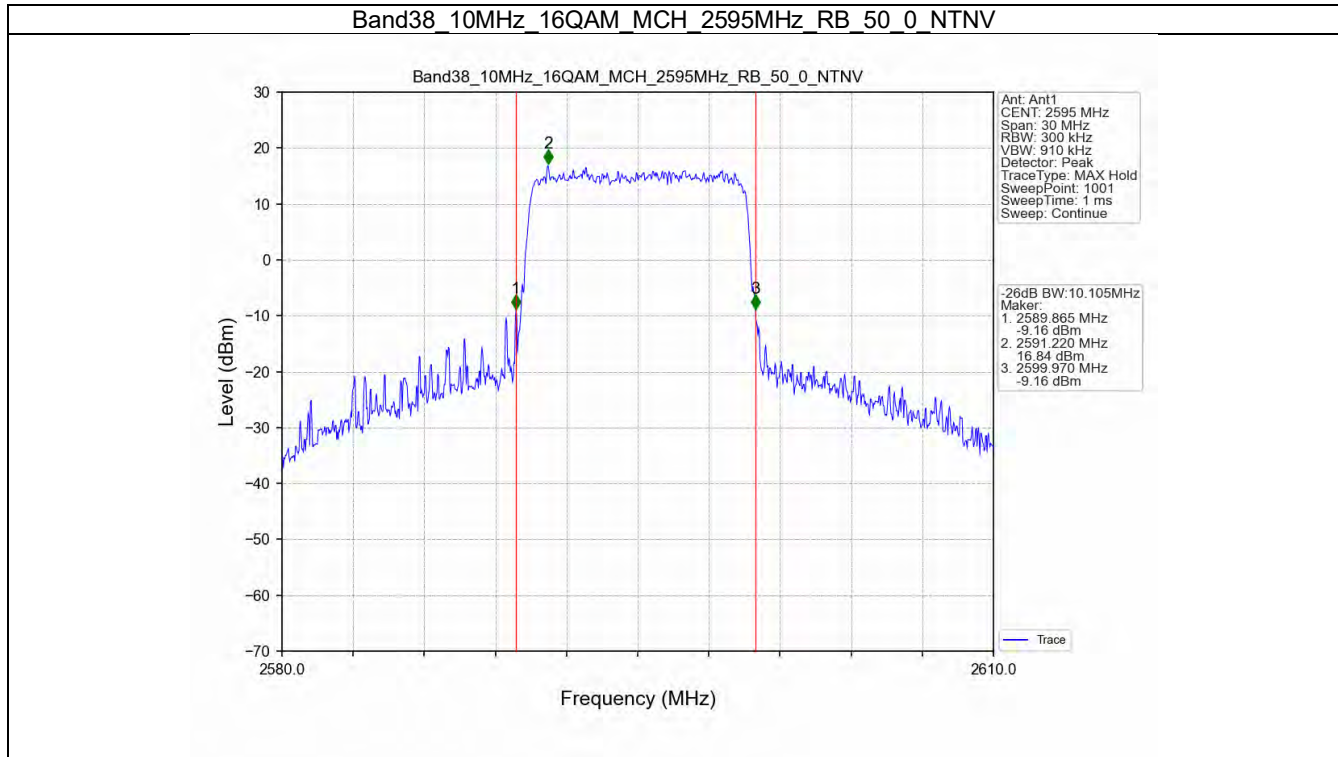


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Report No.: SZCR240200059401

Rev.: 01

Page: 73 of 298



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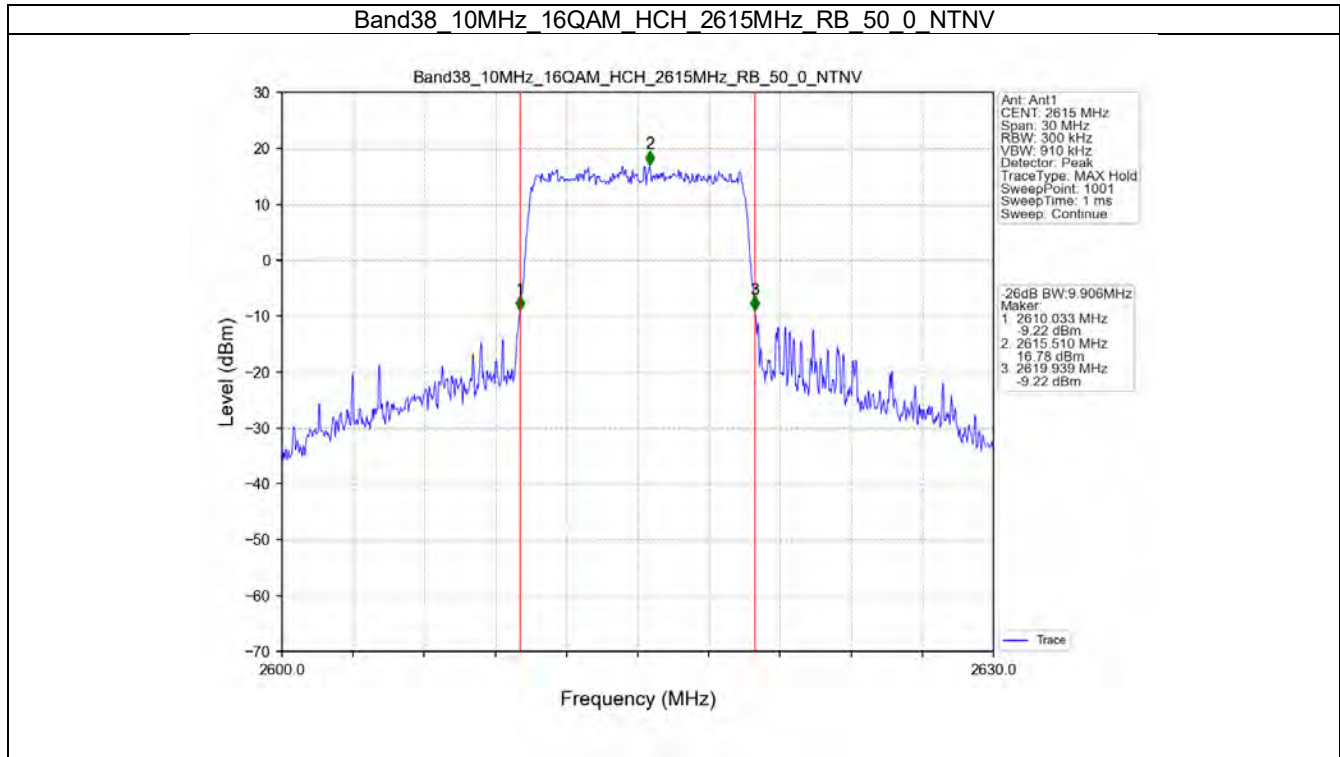


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Report No.: SZCR240200059401

Rev.: 01

Page: 74 of 298



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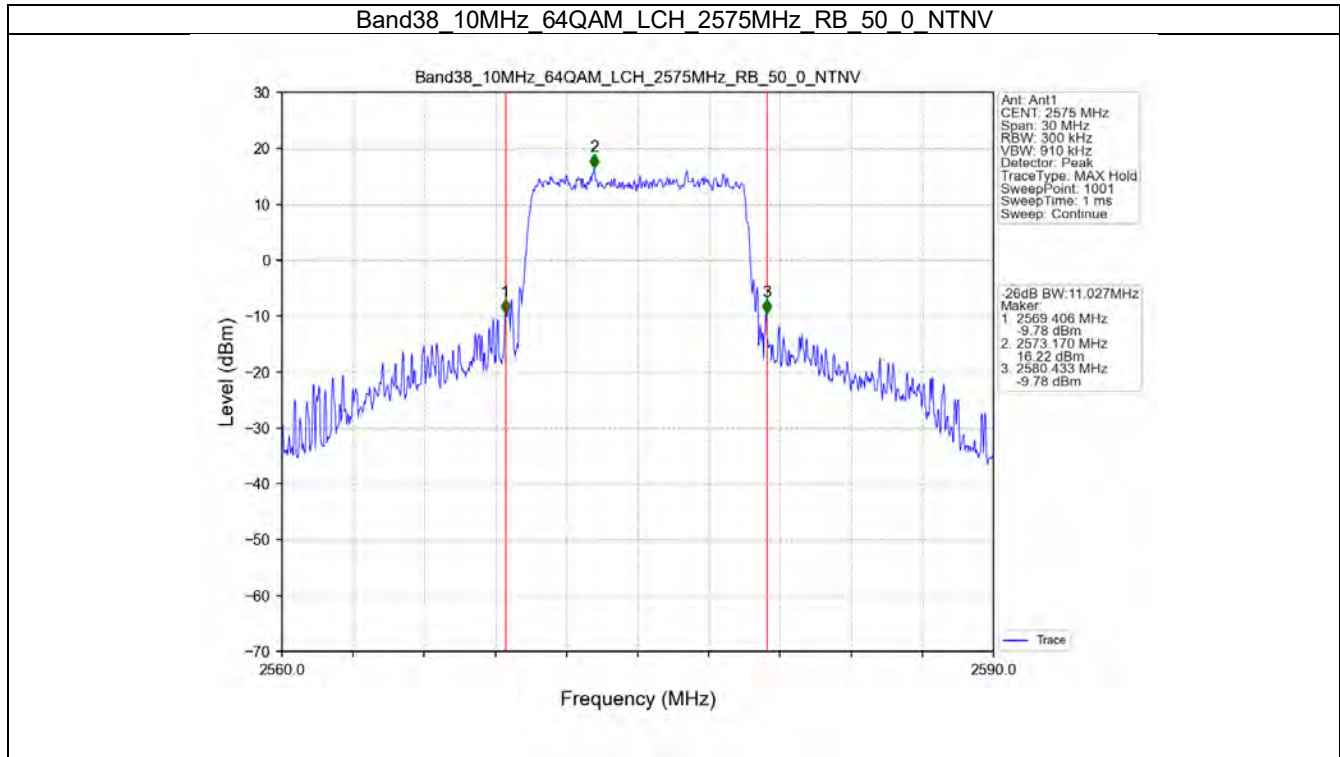


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Report No.: SZCR240200059401

Rev.: 01

Page: 75 of 298



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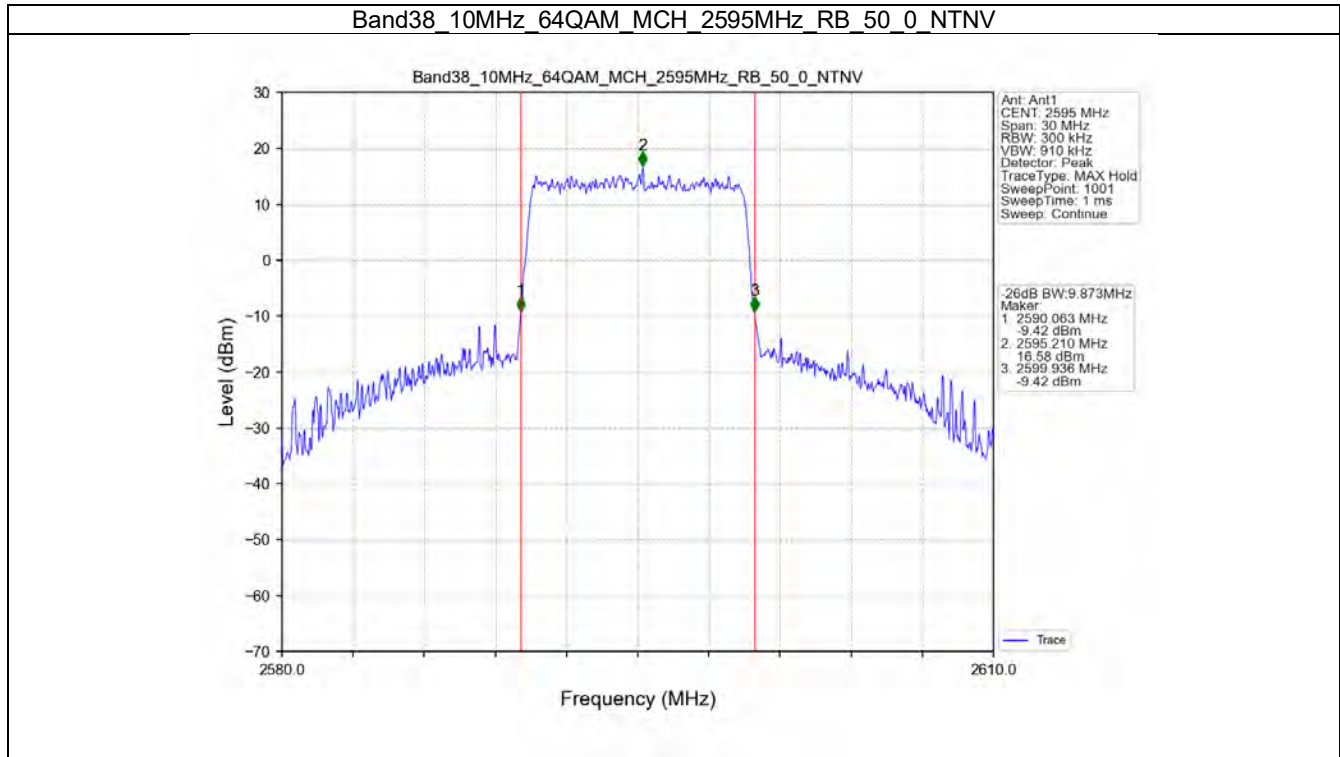


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Report No.: SZCR240200059401

Rev.: 01

Page: 76 of 298



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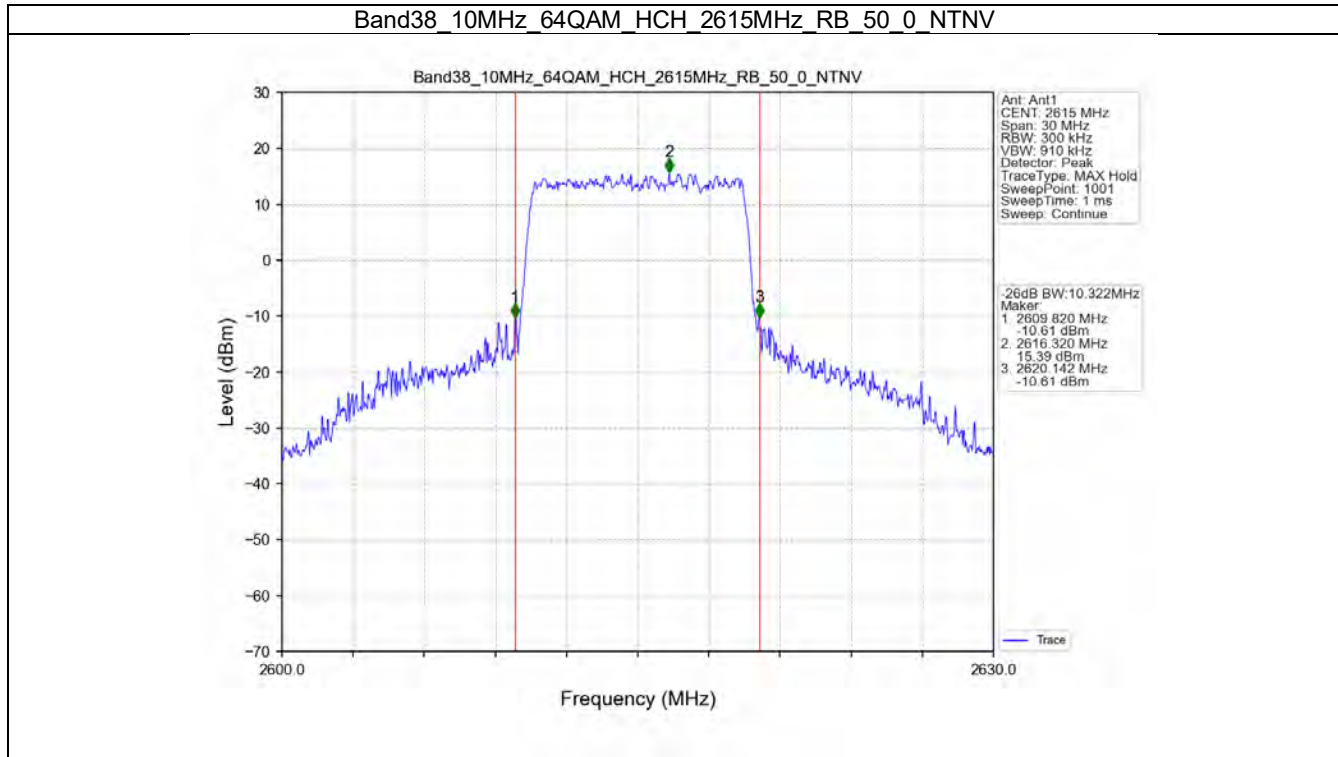


SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240200059401

Rev.: 01

Page: 77 of 298



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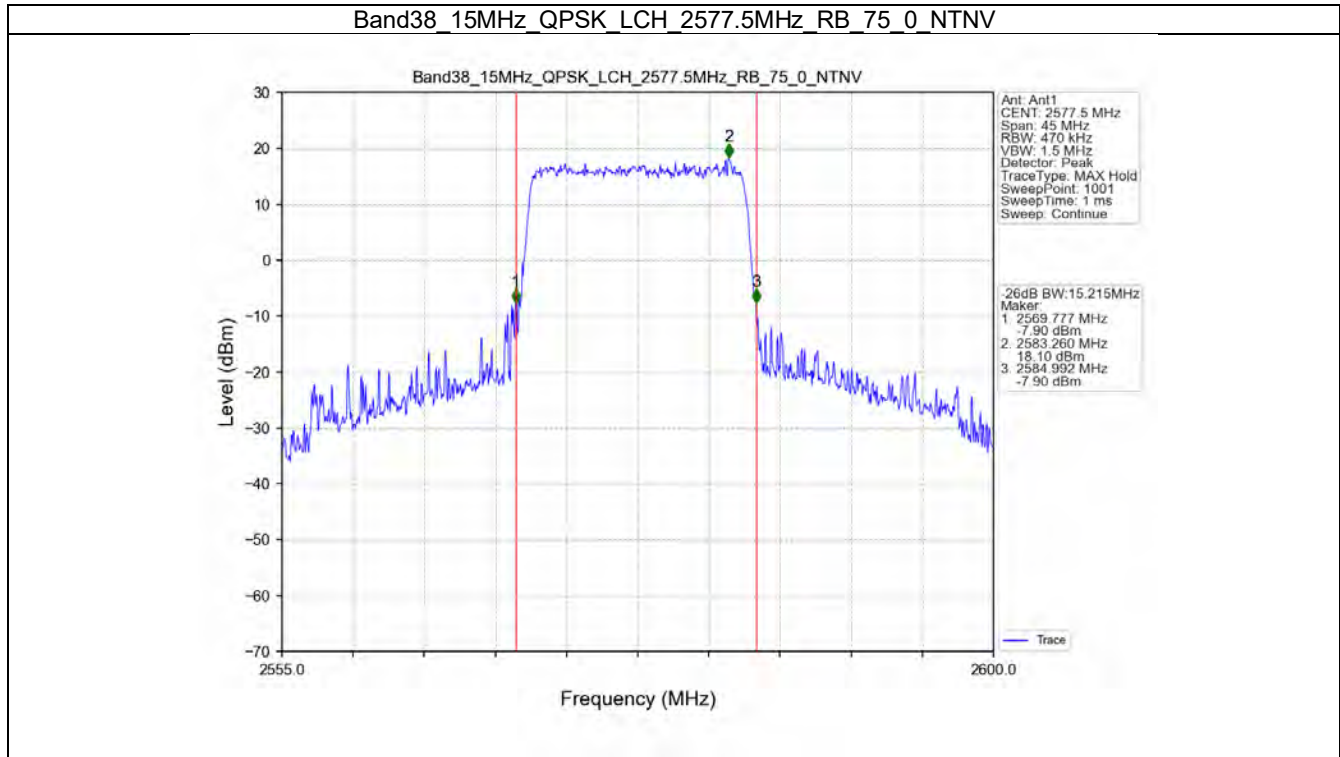


SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240200059401

Rev.: 01

Page: 78 of 298



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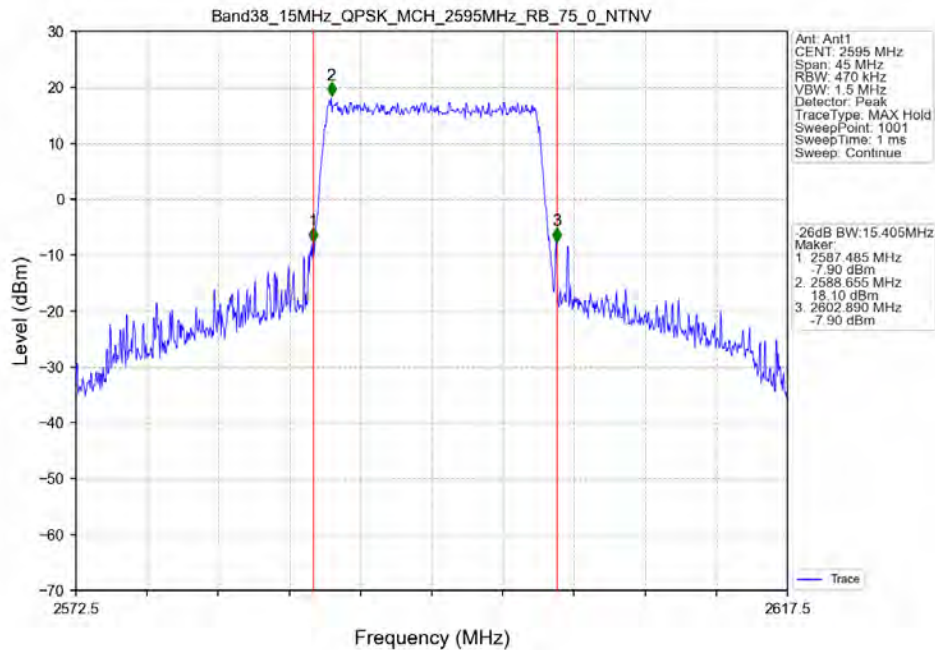
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240200059401

Rev.: 01

Page: 79 of 298

Band38_15MHz_QPSK_MCH_2595MHz_RB_75_0_NTNV



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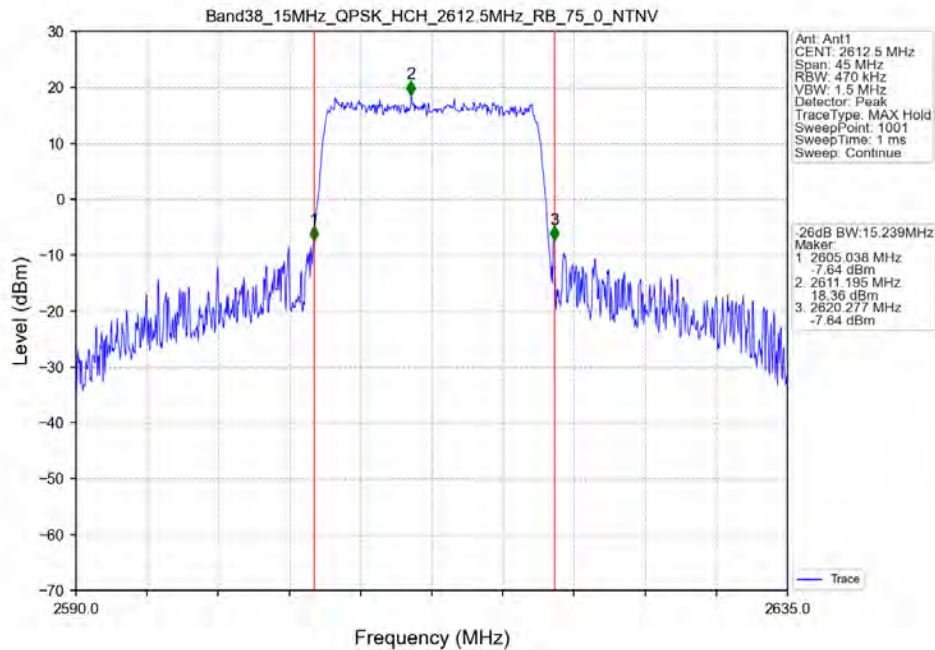
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240200059401

Rev.: 01

Page: 80 of 298

Band38_15MHz_QPSK_HCH_2612.5MHz_RB_75_0_NTNV



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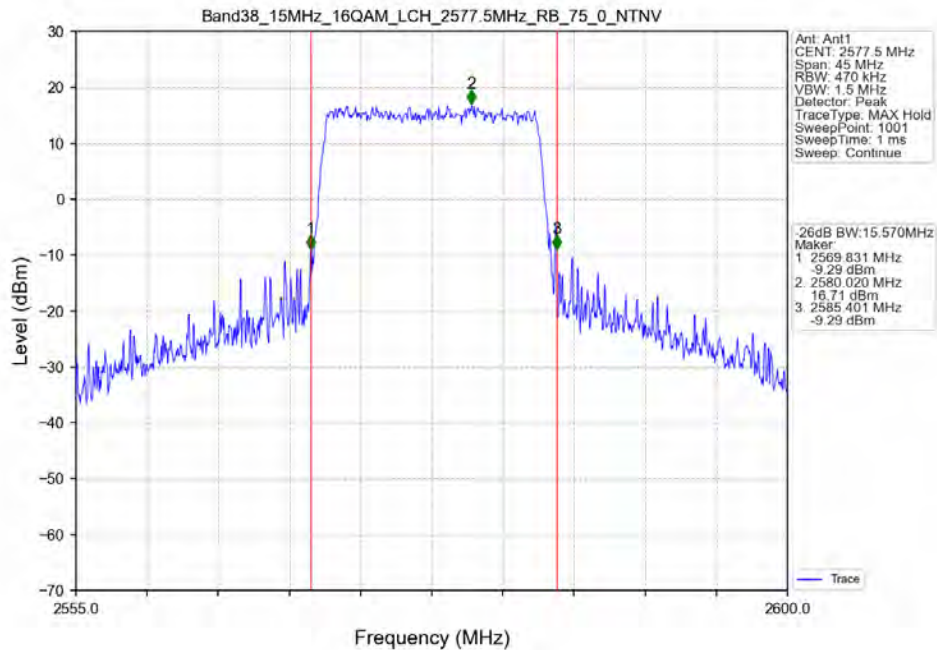
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240200059401

Rev.: 01

Page: 81 of 298

Band38_15MHz_16QAM_LCH_2577.5MHz_RB_75_0_NTNV



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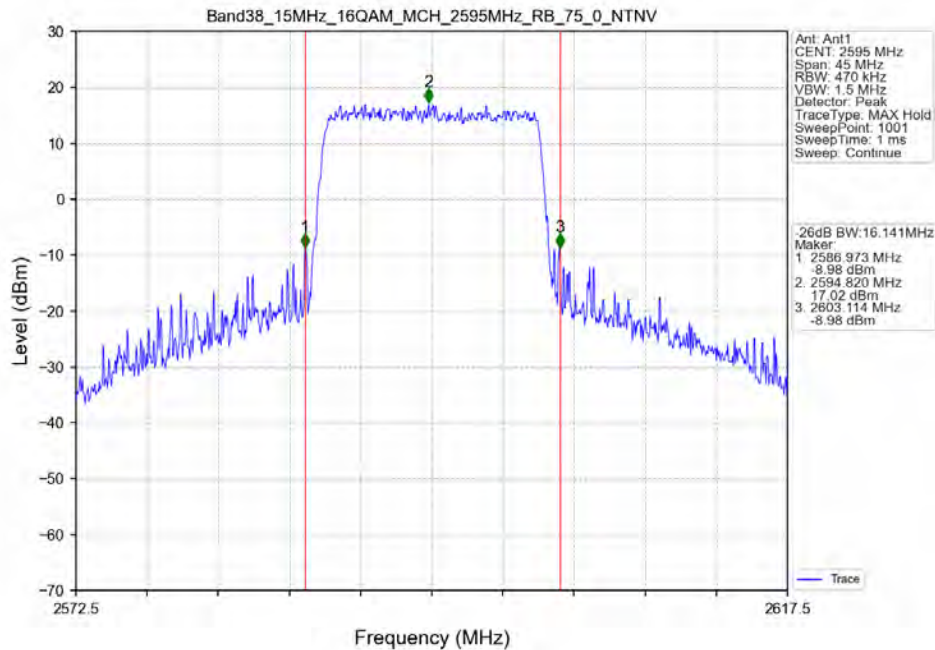
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240200059401

Rev.: 01

Page: 82 of 298

Band38_15MHz_16QAM_MCH_2595MHz_RB_75_0_NTNV



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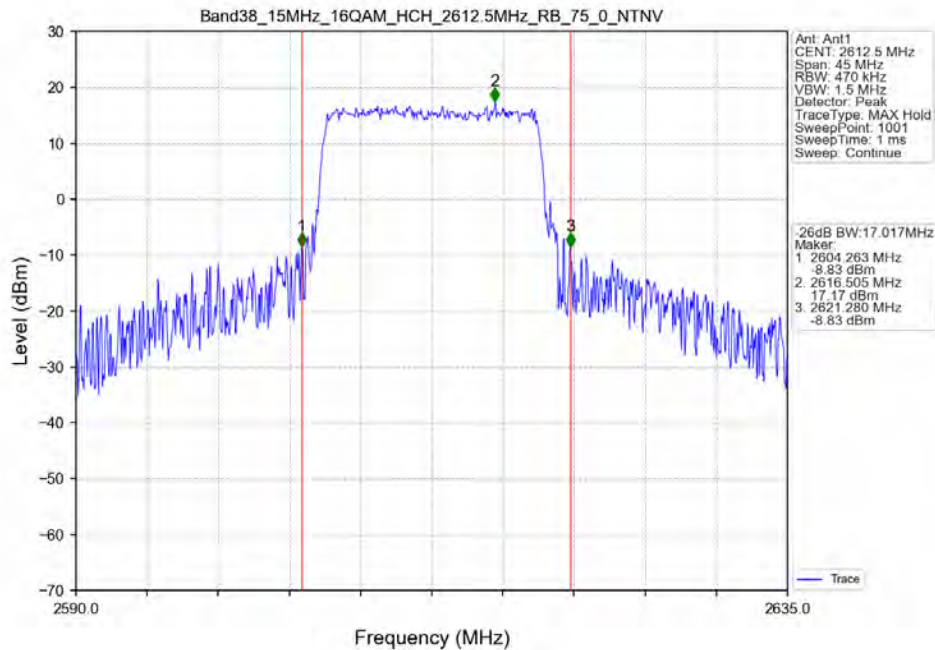
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240200059401

Rev.: 01

Page: 83 of 298

Band38_15MHz_16QAM_HCH_2612.5MHz_RB_75_0_NTNV



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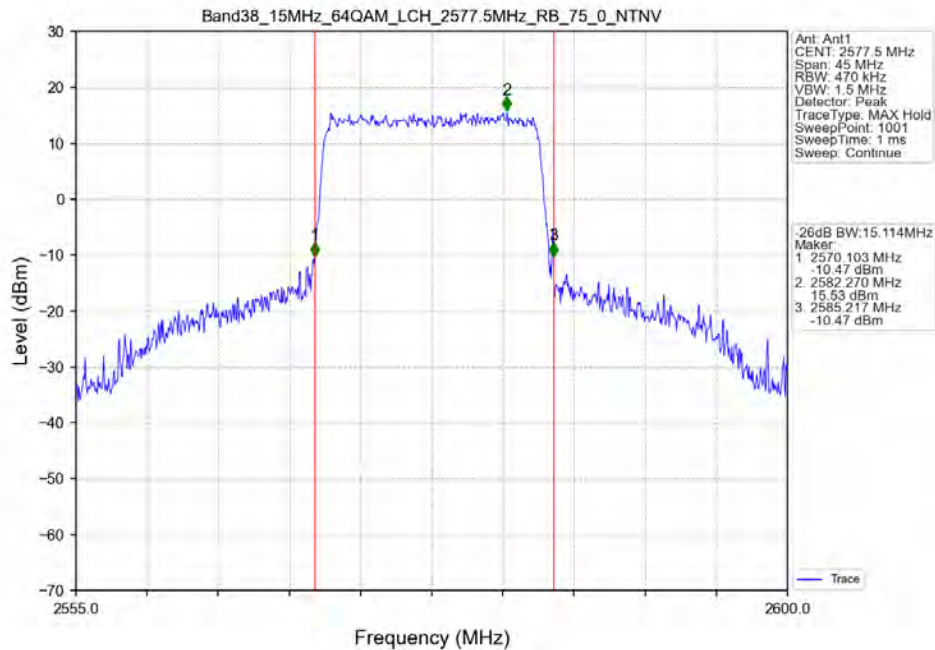
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Report No.: SZCR240200059401

Rev.: 01

Page: 84 of 298

Band38_15MHz_64QAM_LCH_2577.5MHz_RB_75_0_NTNV



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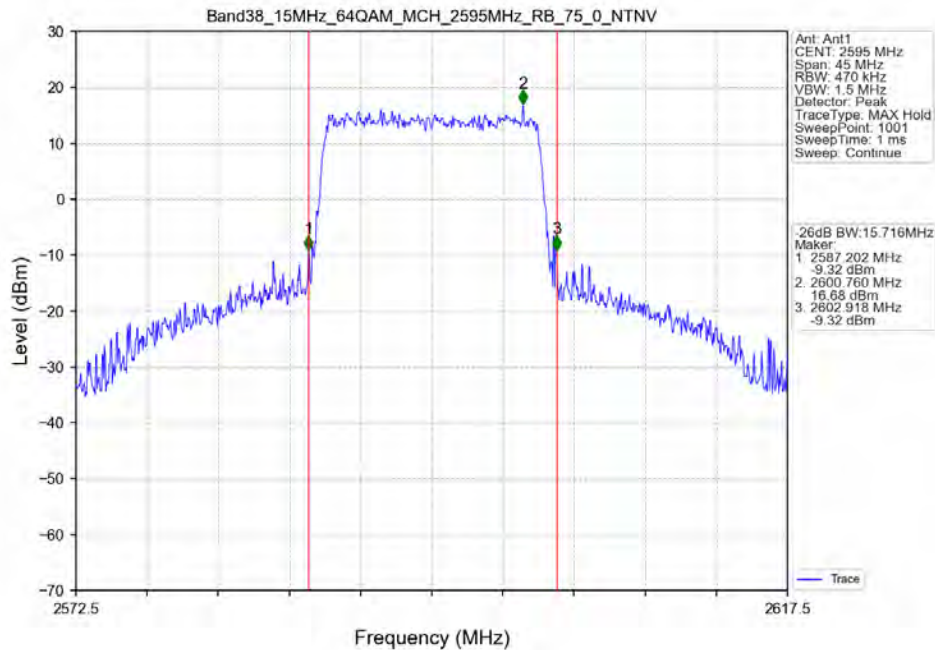
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Rev.: 01

Page: 85 of 298

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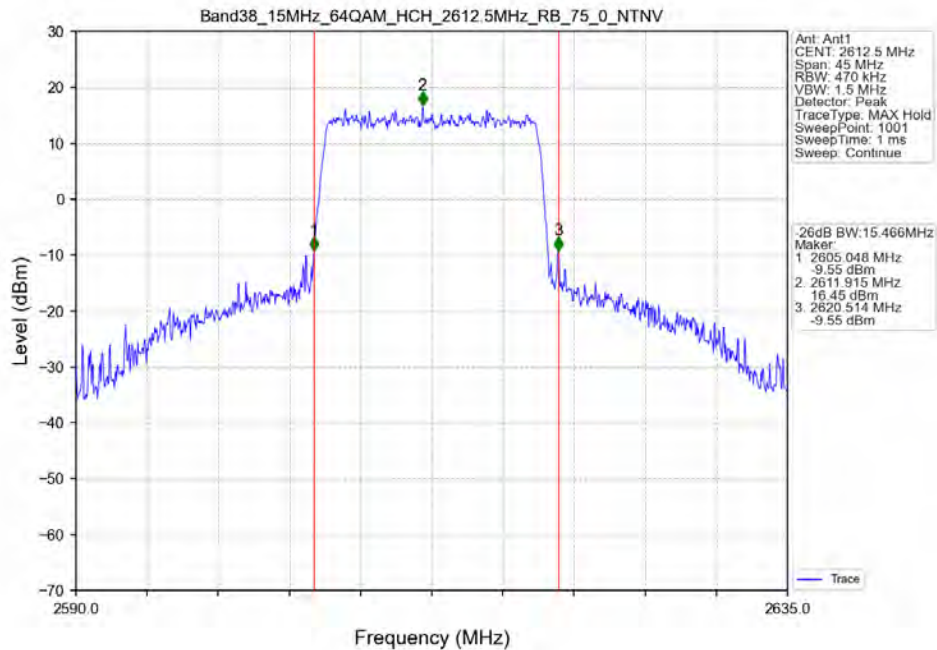
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Report No.: SZCR240200059401

Rev.: 01

Page: 86 of 298

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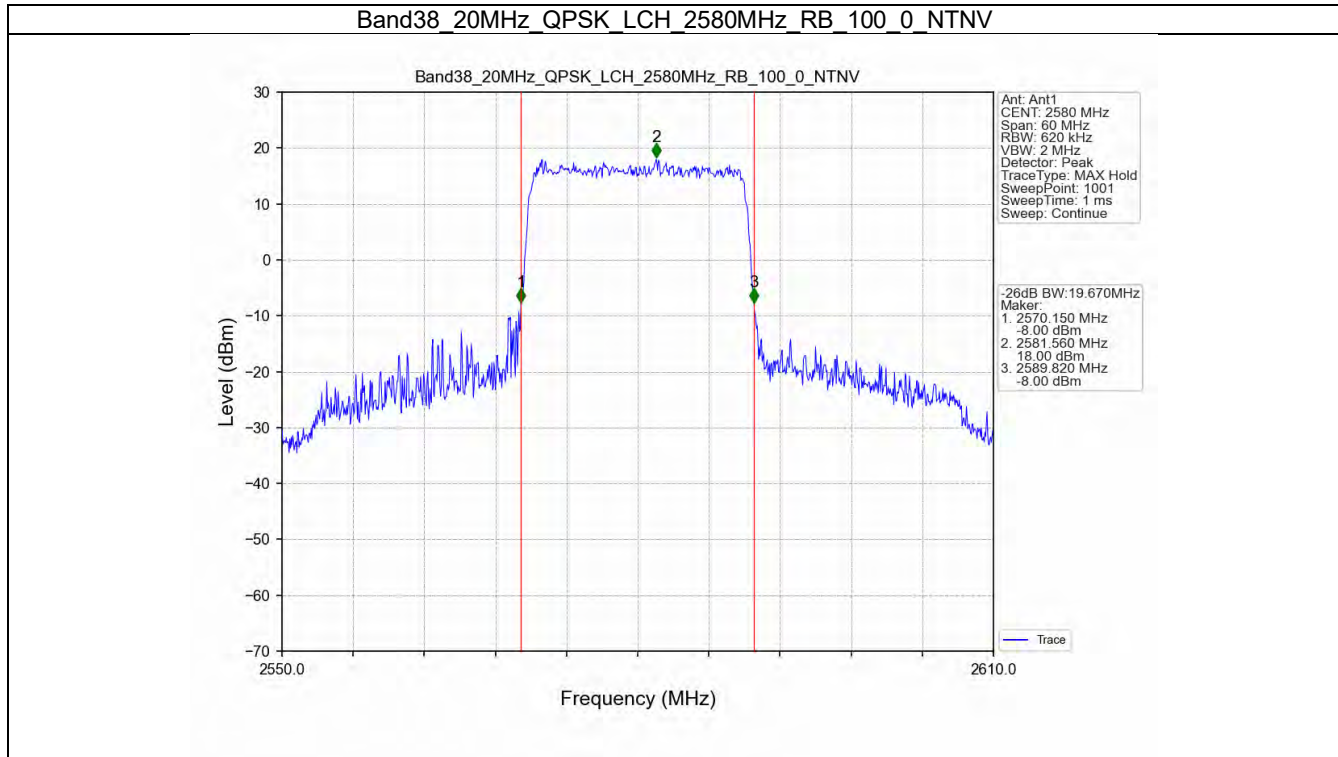


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Report No.: SZCR240200059401

Rev.: 01

Page: 87 of 298



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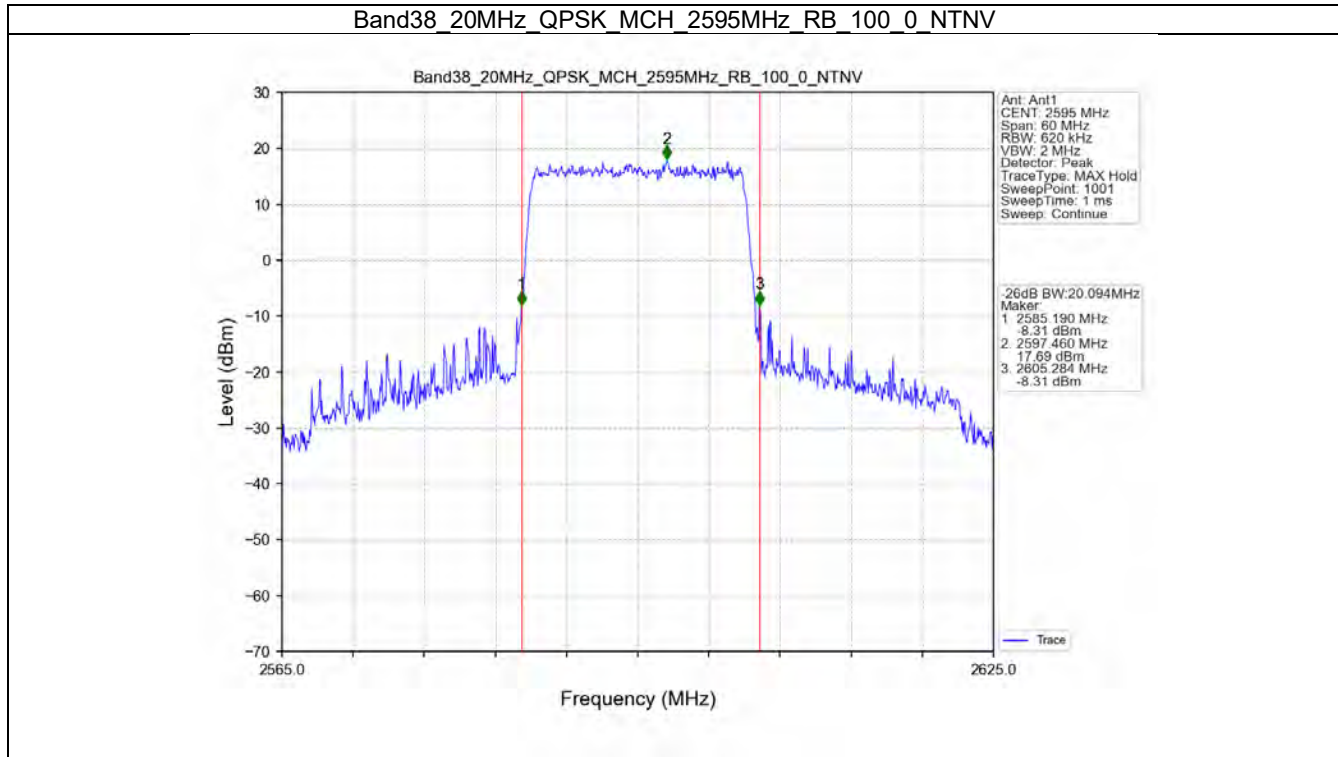


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Report No.: SZCR240200059401

Rev.: 01

Page: 88 of 298



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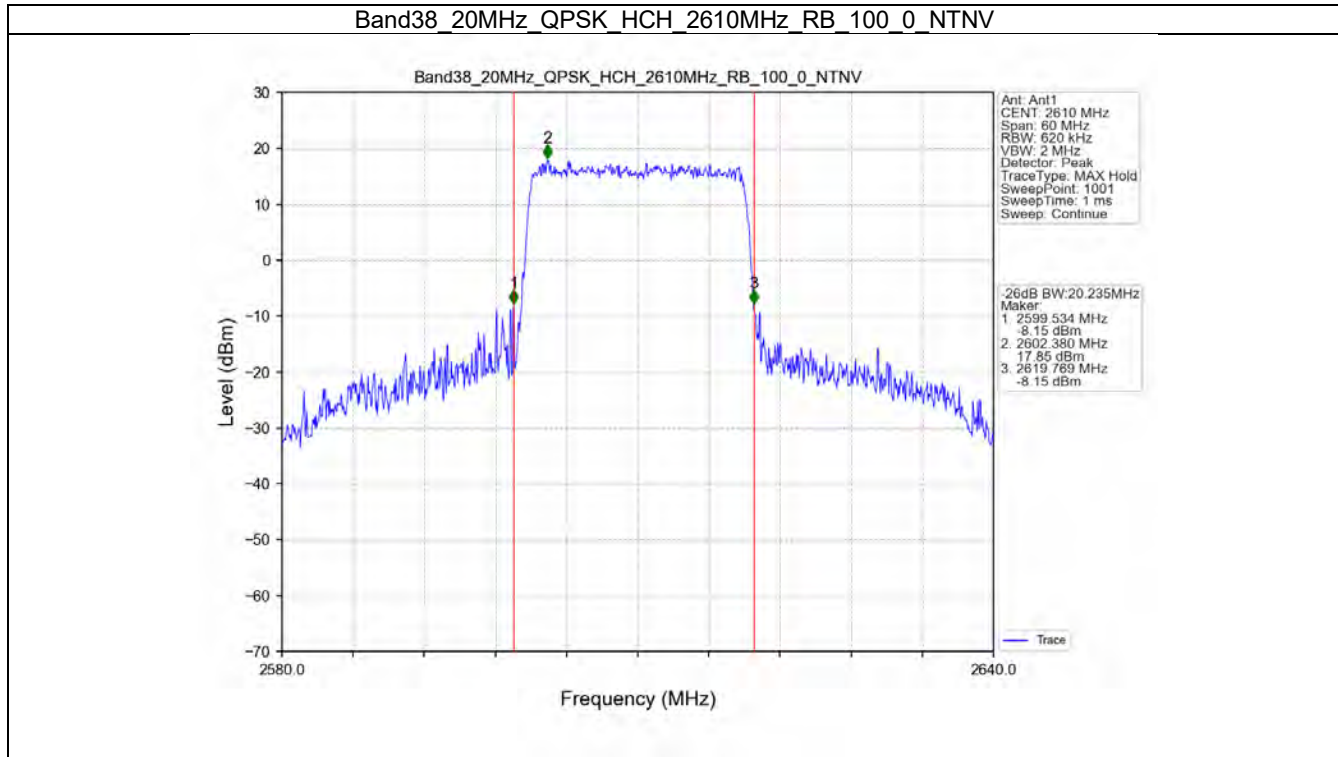


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Report No.: SZCR240200059401

Rev.: 01

Page: 89 of 298



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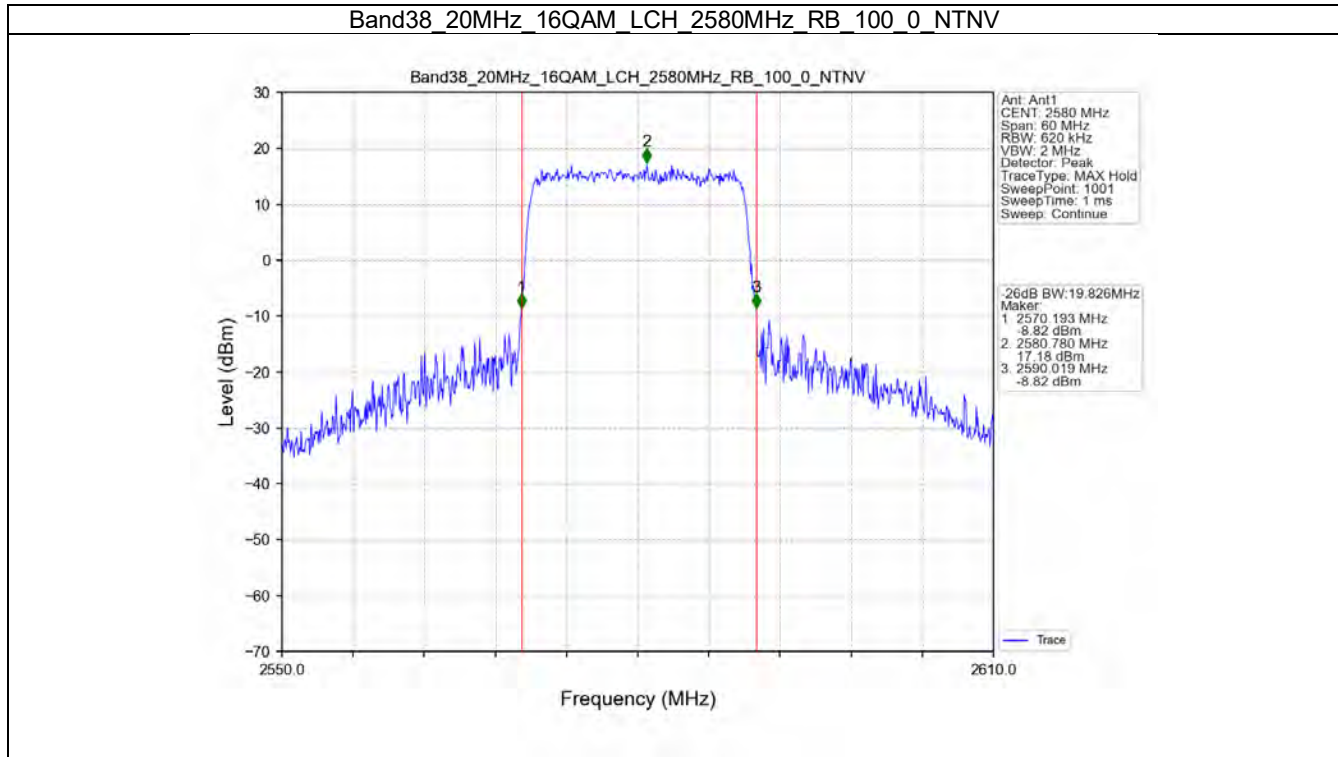


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Report No.: SZCR240200059401

Rev.: 01

Page: 90 of 298



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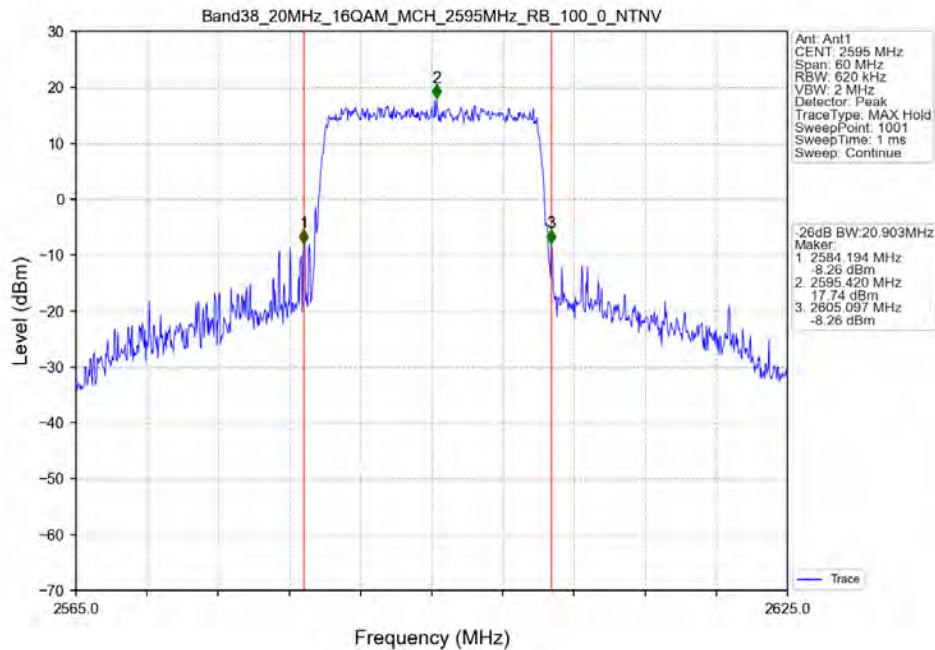
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240200059401

Rev.: 01

Page: 91 of 298

Band38_20MHz_16QAM_MCH_2595MHz_RB_100_0_NTNV



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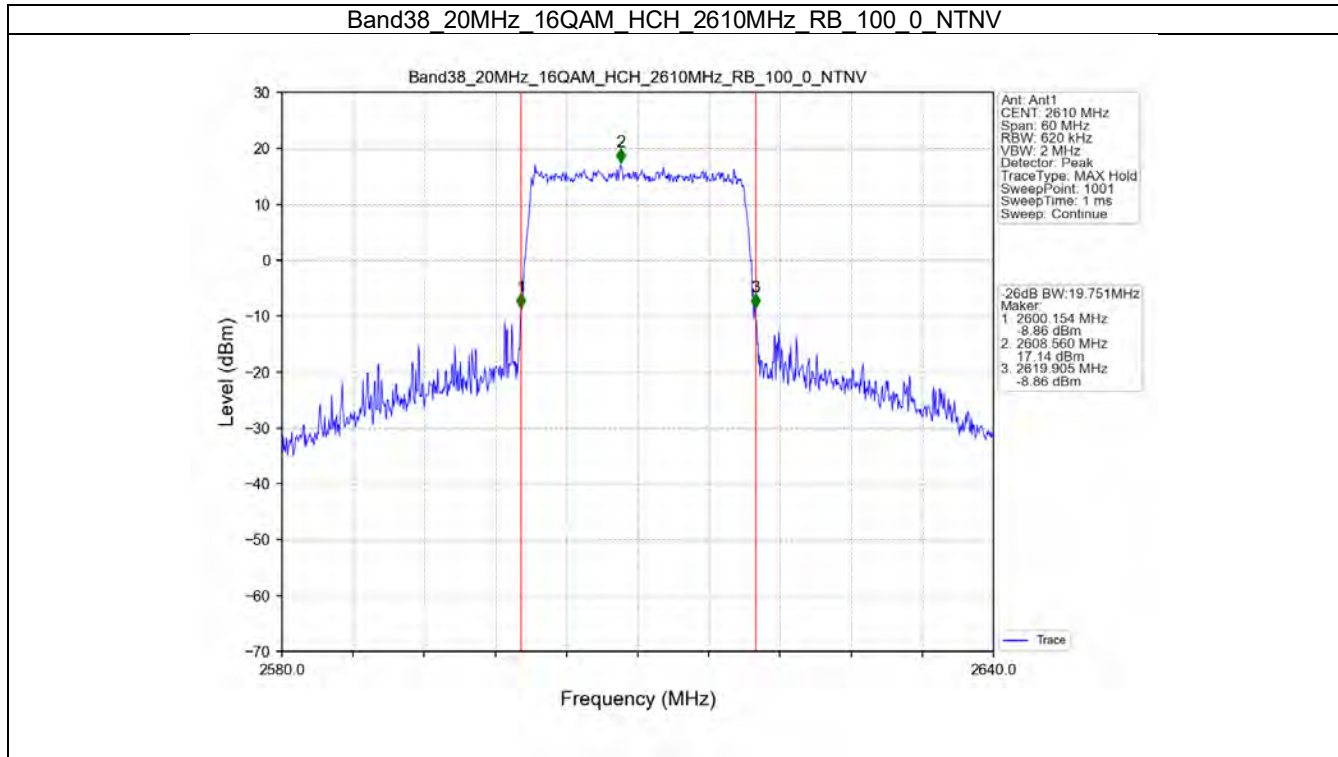


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Report No.: SZCR240200059401

Rev.: 01

Page: 92 of 298



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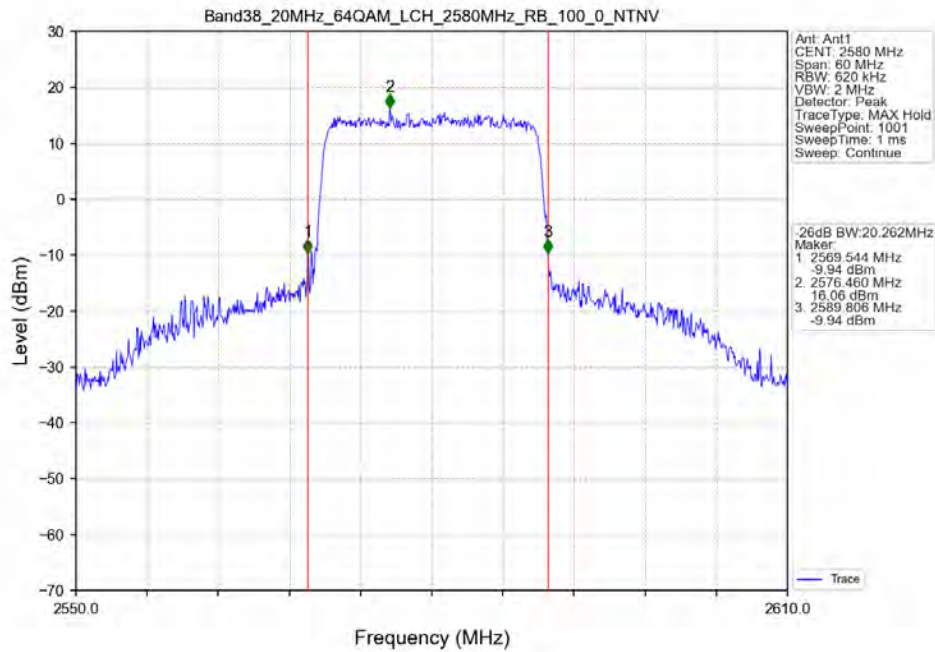
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Report No.: SZCR240200059401

Rev.: 01

Page: 93 of 298

Band38_20MHz_64QAM_LCH_2580MHz_RB_100_0_NTNV



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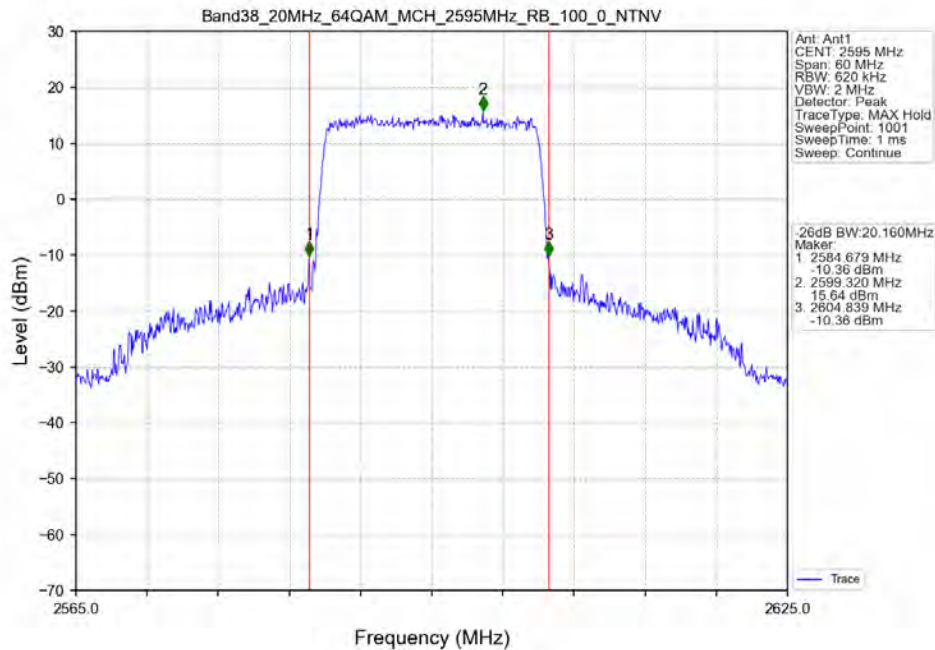
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Report No.: SZCR240200059401

Rev.: 01

Page: 94 of 298

Band38_20MHz_64QAM_MCH_2595MHz_RB_100_0_NTNV



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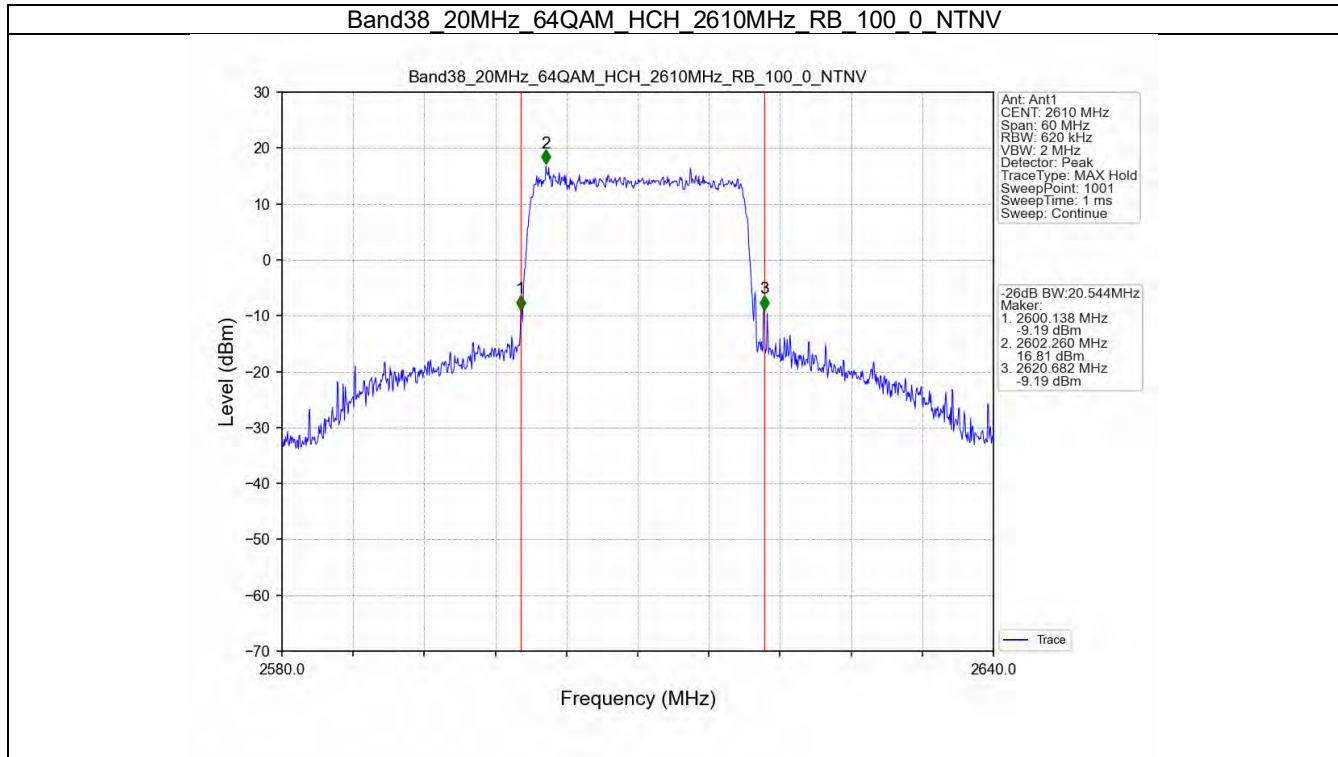


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Report No.: SZCR240200059401

Rev.: 01

Page: 95 of 298



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

Report No.: SZCR240200059401
Rev.: 01
Page: 96 of 298

4. Peak-Average Ratio

4.1 B38_5MHz

4.1.1 Test Result

Band: 38 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2572.5	25	0	7.35	<=13	Pass
	2595	25	0	7.46	<=13	Pass
	2617.5	25	0	7.48	<=13	Pass
16QAM	2572.5	25	0	8.17	<=13	Pass
	2595	25	0	7.90	<=13	Pass
	2617.5	25	0	7.97	<=13	Pass
64QAM	2572.5	25	0	7.71	<=13	Pass
	2595	25	0	7.63	<=13	Pass
	2617.5	25	0	7.75	<=13	Pass



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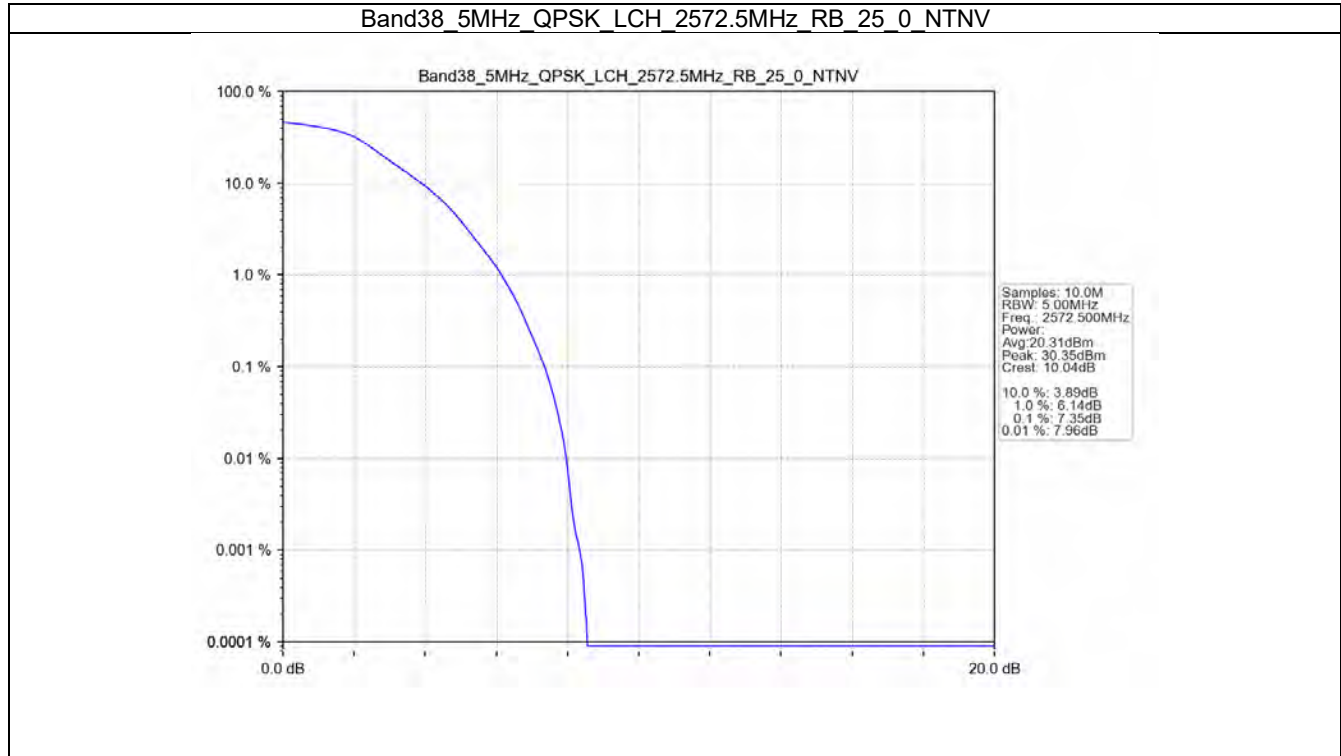
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Report No.: SZCR240200059401

Rev.: 01

Page: 97 of 298

4.1.2 Test Graph



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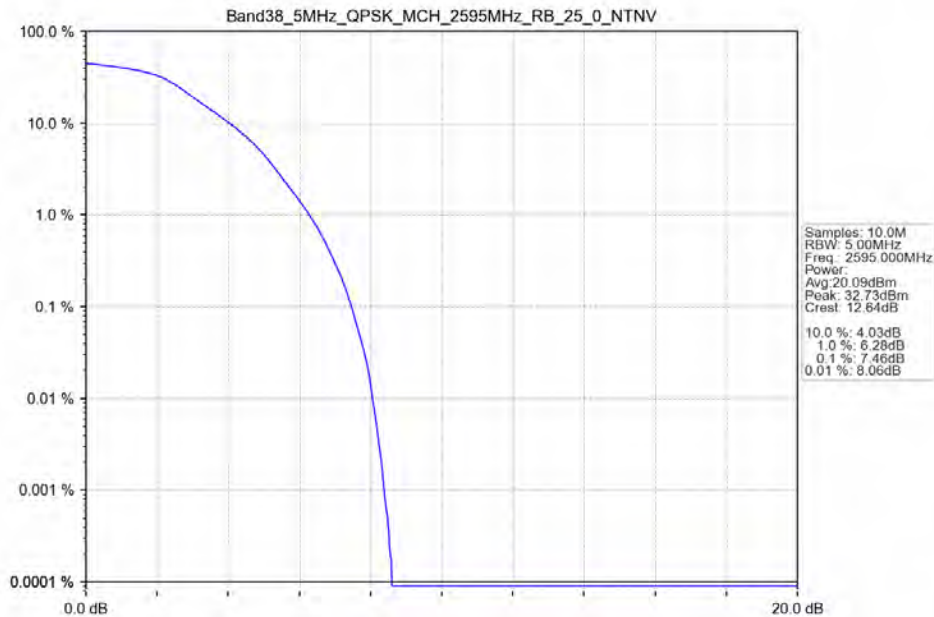
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Report No.: SZCR240200059401

Rev.: 01

Page: 98 of 298

Band38_5MHz_QPSK_MCH_2595MHz_RB_25_0_NTNV



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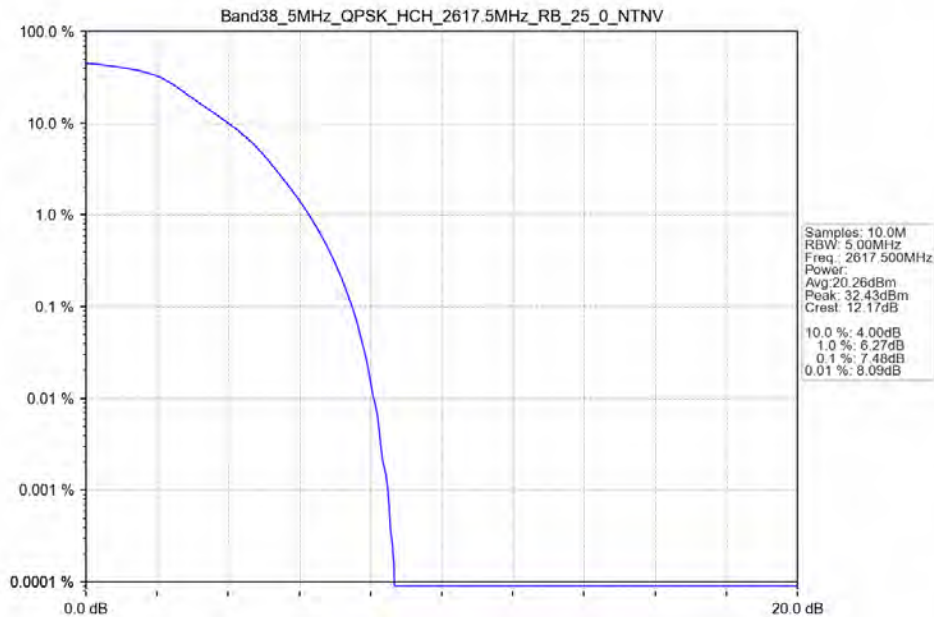
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Report No.: SZCR240200059401

Rev.: 01

Page: 99 of 298

Band38_5MHz_QPSK_HCH_2617.5MHz_RB_25_0_NTNV



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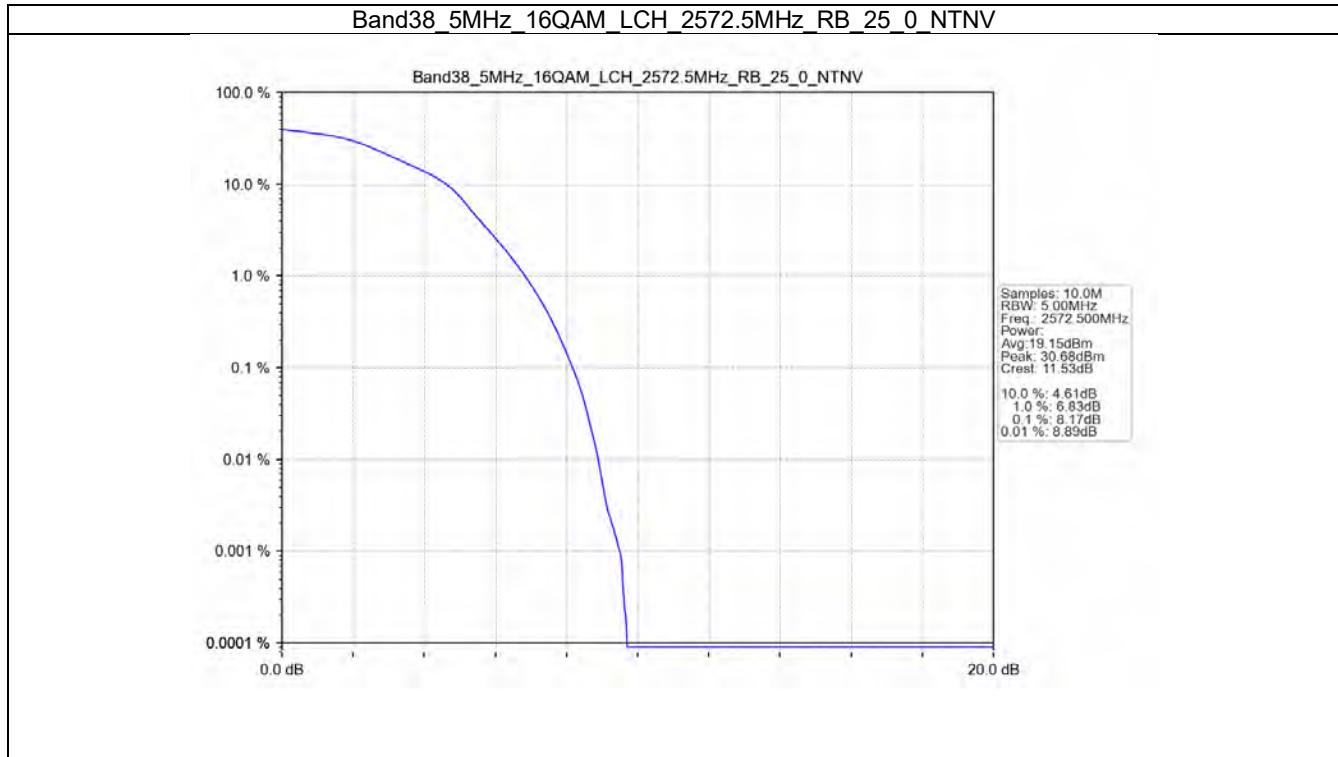


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Rev.: 01

Page: 100 of 298



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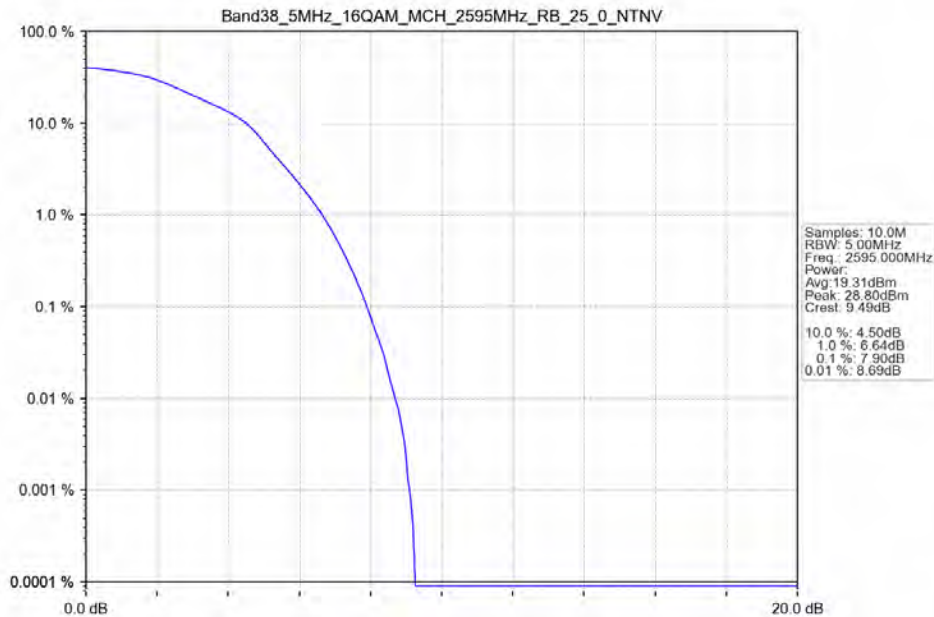
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Report No.: SZCR240200059401

Rev.: 01

Page: 101 of 298

Band38_5MHz_16QAM_MCH_2595MHz_RB_25_0_NTNV



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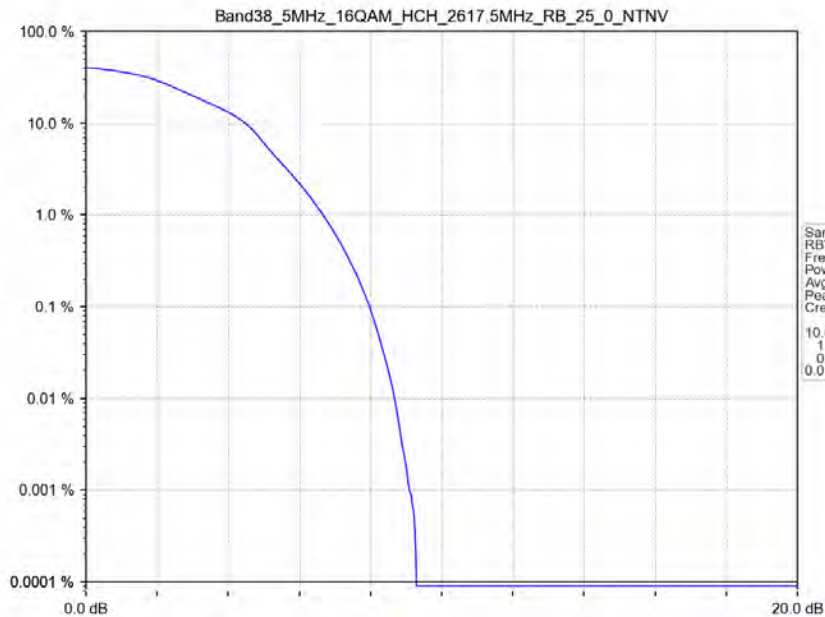
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Report No.: SZCR240200059401

Rev.: 01

Page: 102 of 298

Band38_5MHz_16QAM_HCH_2617.5MHz_RB_25_0_NTNV



Samples: 10.0M
RBW: 5.00MHz
Freq: 2617.500MHz
Power:
Avg: 19.49dBm
Peak: 32.69dBm
Crest: 13.20dB
10.0 %: 4.48dB
1.0 %: 6.66dB
0.1 %: 7.97dB
0.01 %: 8.68dB



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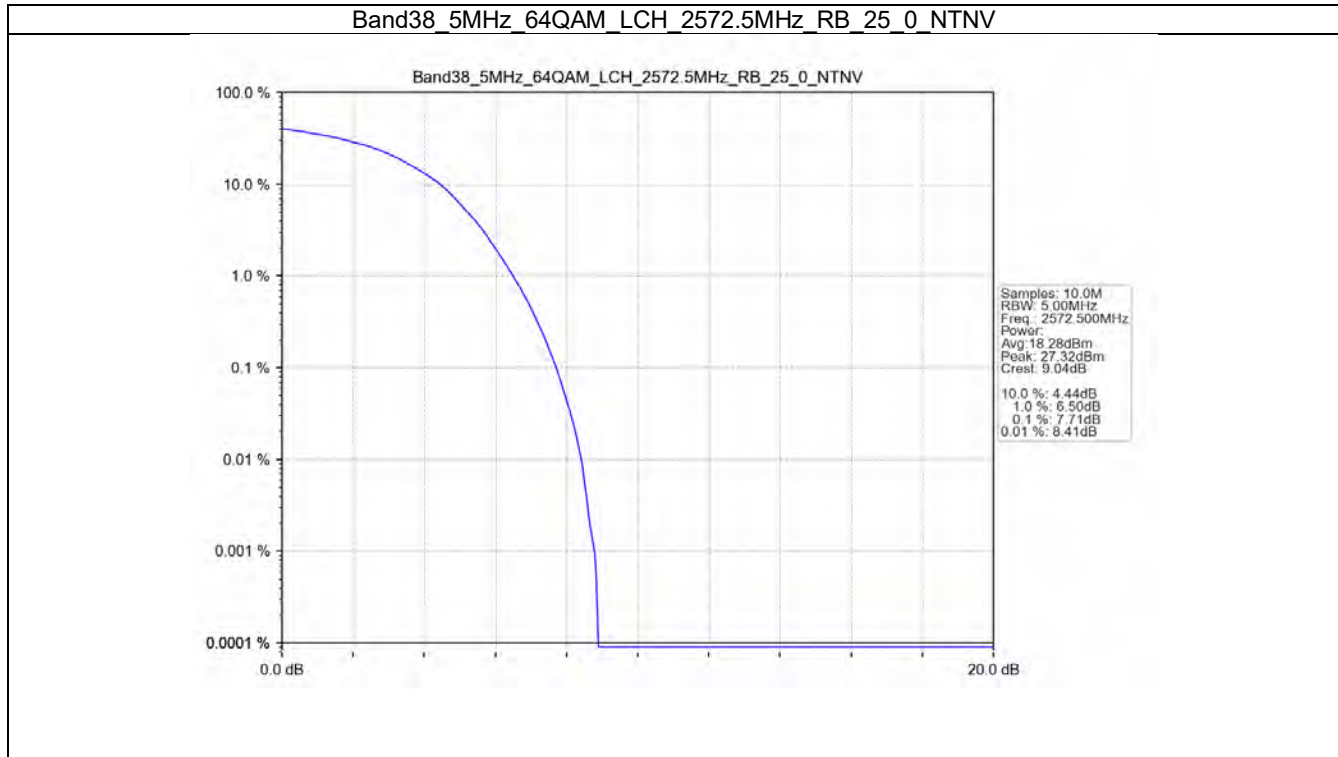


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Report No.: SZCR240200059401

Rev.: 01

Page: 103 of 298



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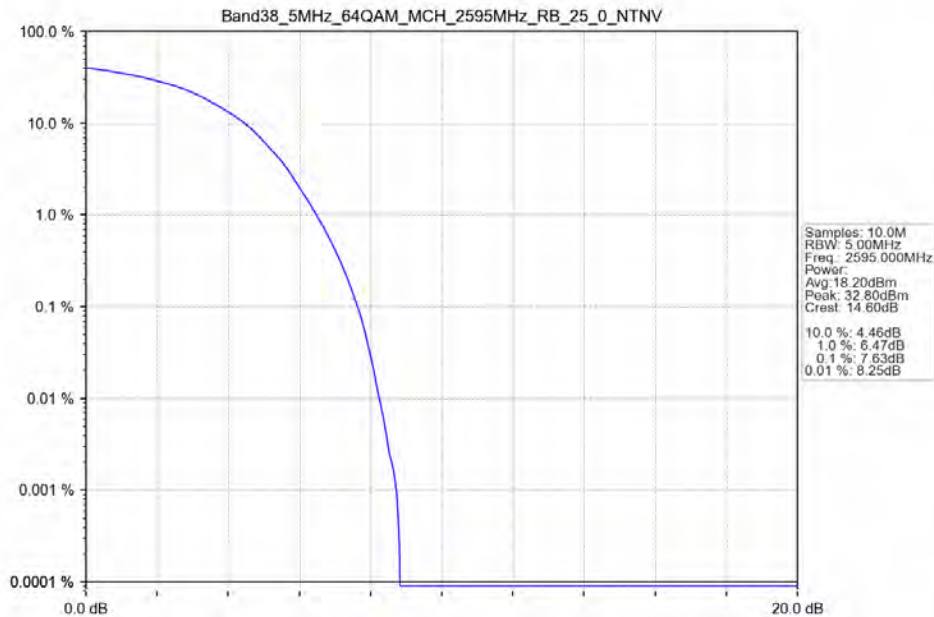
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Report No.: SZCR240200059401

Rev.: 01

Page: 104 of 298

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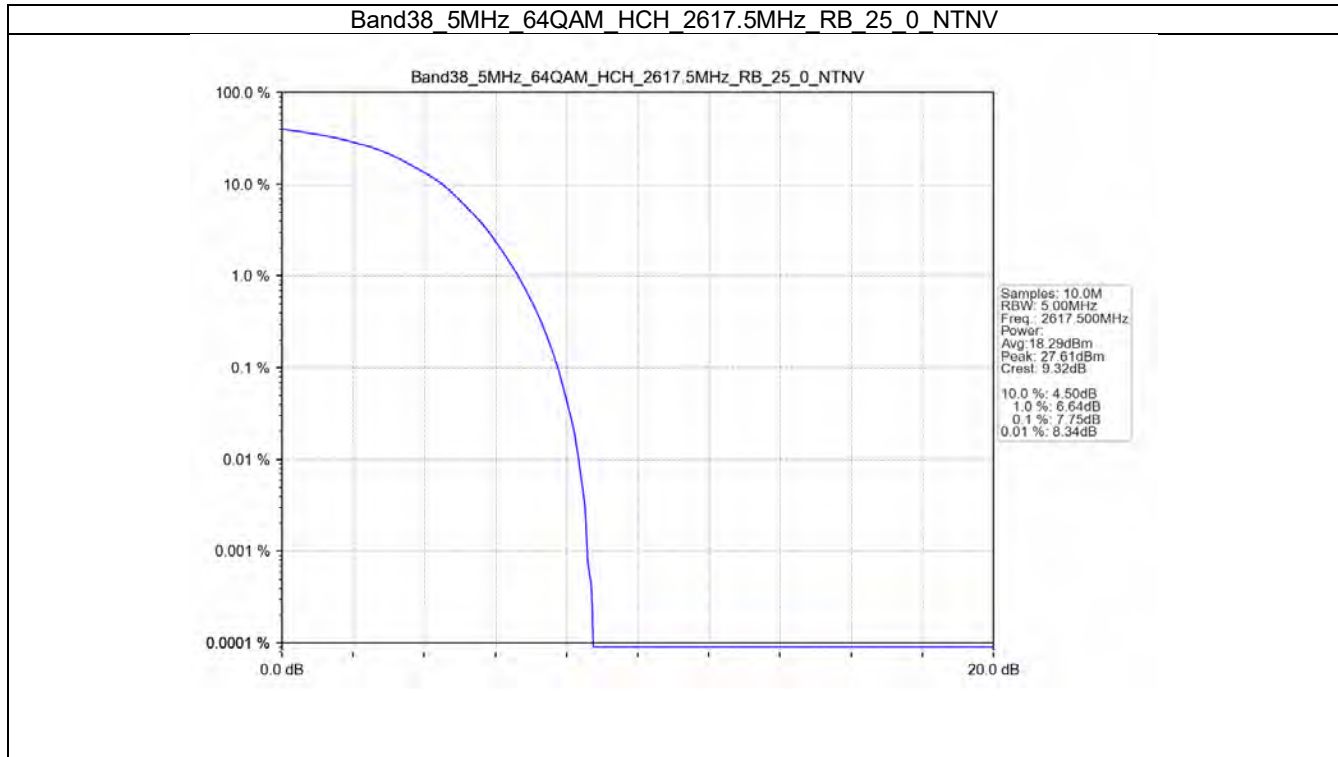


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Report No.: SZCR240200059401

Rev.: 01

Page: 105 of 298



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Report No.: SZCR240200059401
Rev.: 01
Page: 106 of 298

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	7.32	<=13	Pass
	2595	50	0	7.22	<=13	Pass
	2615	50	0	7.31	<=13	Pass
16QAM	2575	50	0	8.01	<=13	Pass
	2595	50	0	8.07	<=13	Pass
	2615	50	0	8.23	<=13	Pass
64QAM	2575	50	0	7.66	<=13	Pass
	2595	50	0	7.64	<=13	Pass
	2615	50	0	7.84	<=13	Pass



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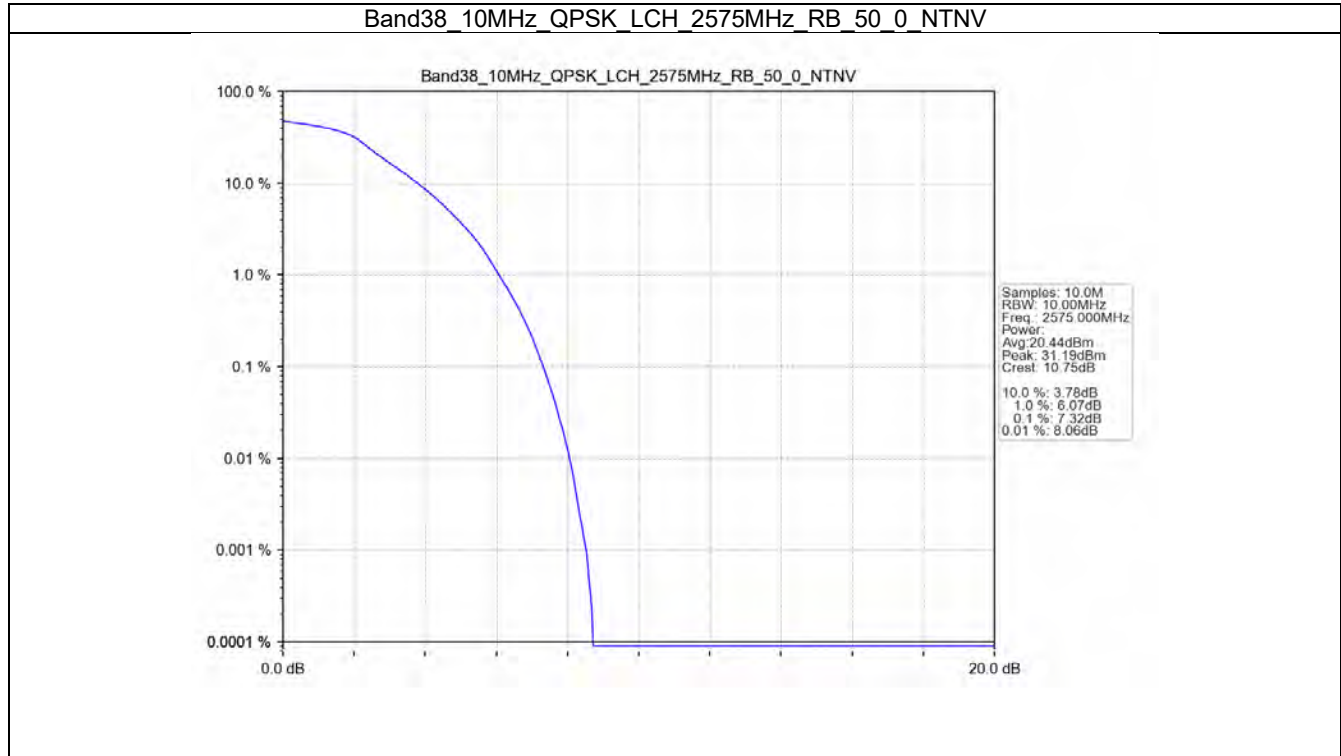
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Report No.: SZCR240200059401

Rev.: 01

Page: 107 of 298

4.2.2 Test Graph



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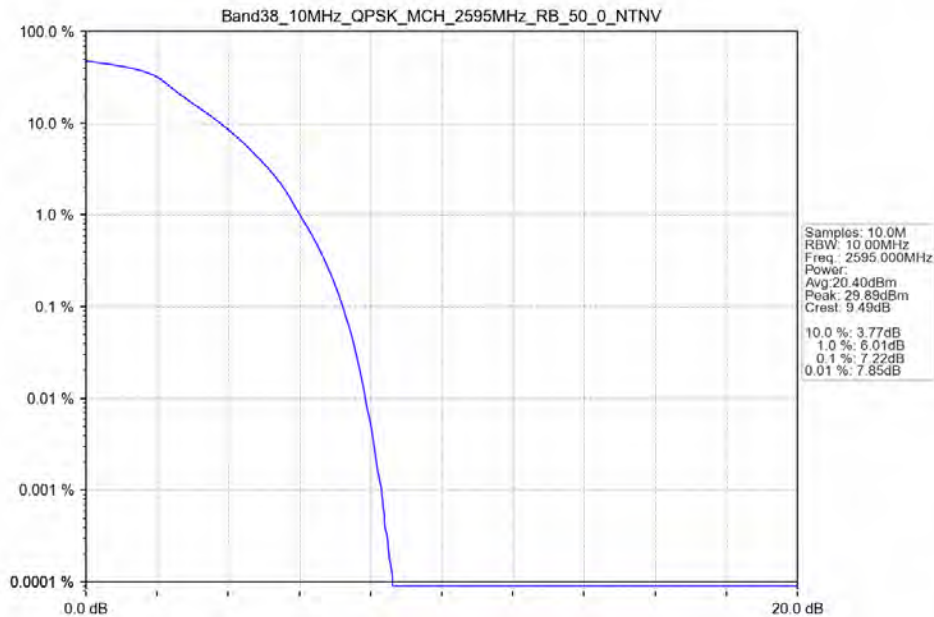
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Report No.: SZCR240200059401

Rev.: 01

Page: 108 of 298

Band38_10MHz_QPSK_MCH_2595MHz_RB_50_0_NTNV



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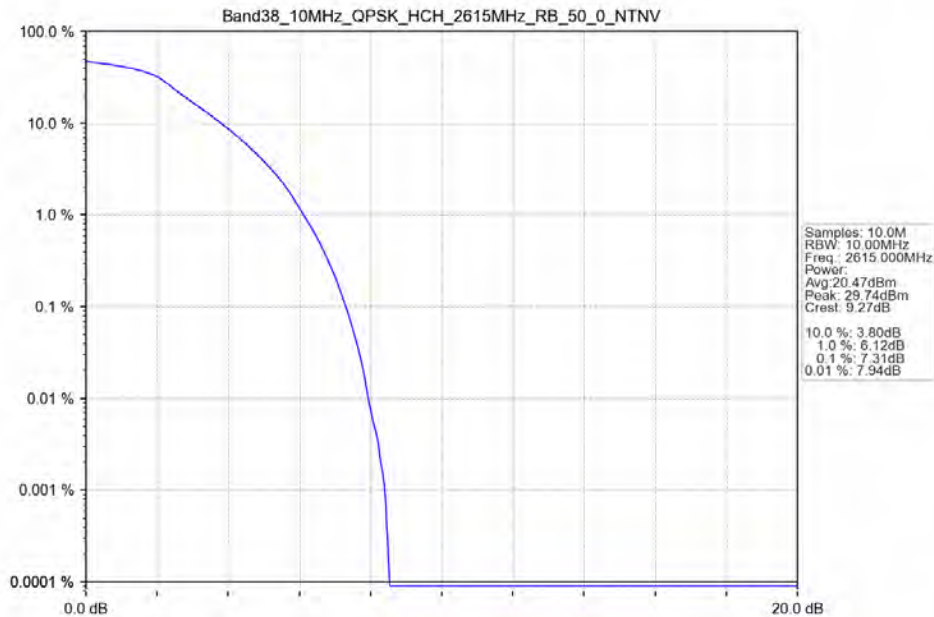
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Report No.: SZCR240200059401

Rev.: 01

Page: 109 of 298

Band38_10MHz_QPSK_HCH_2615MHz_RB_50_0_NTNV



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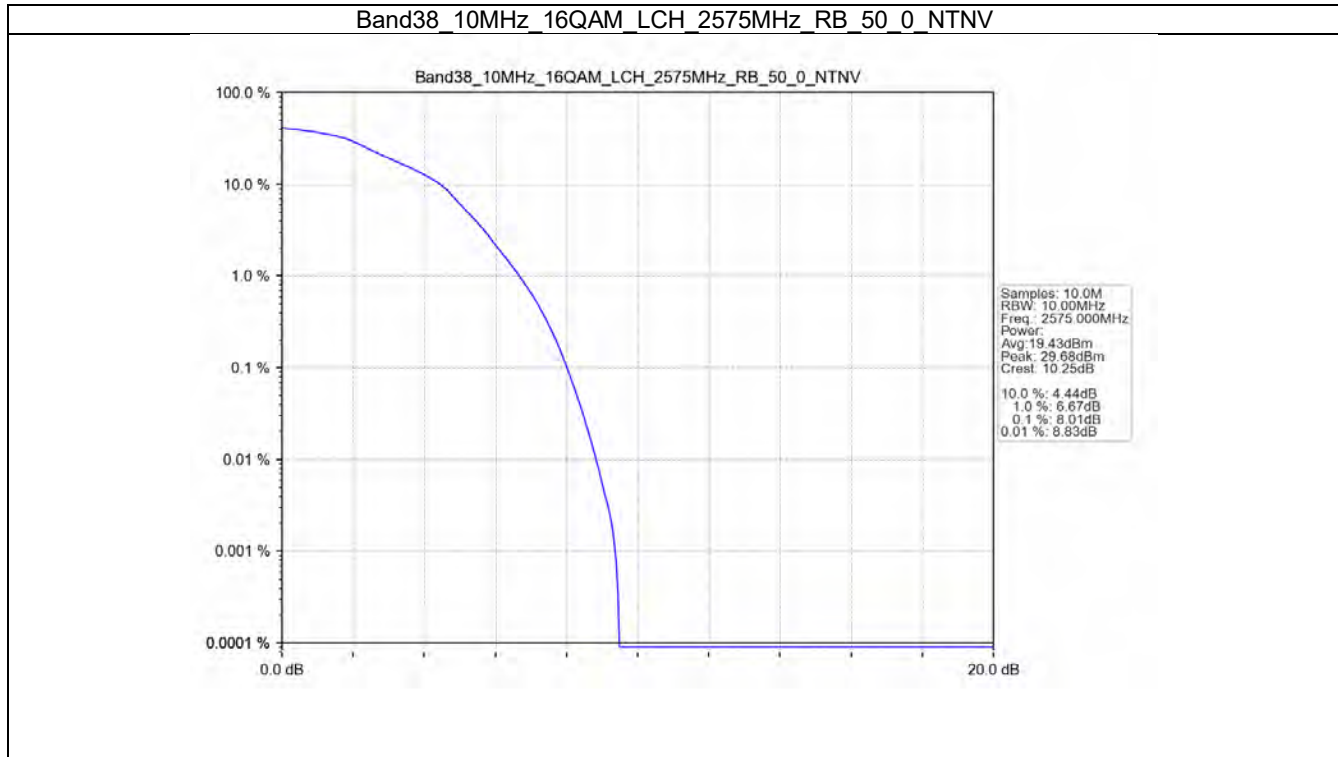


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Rev.: 01

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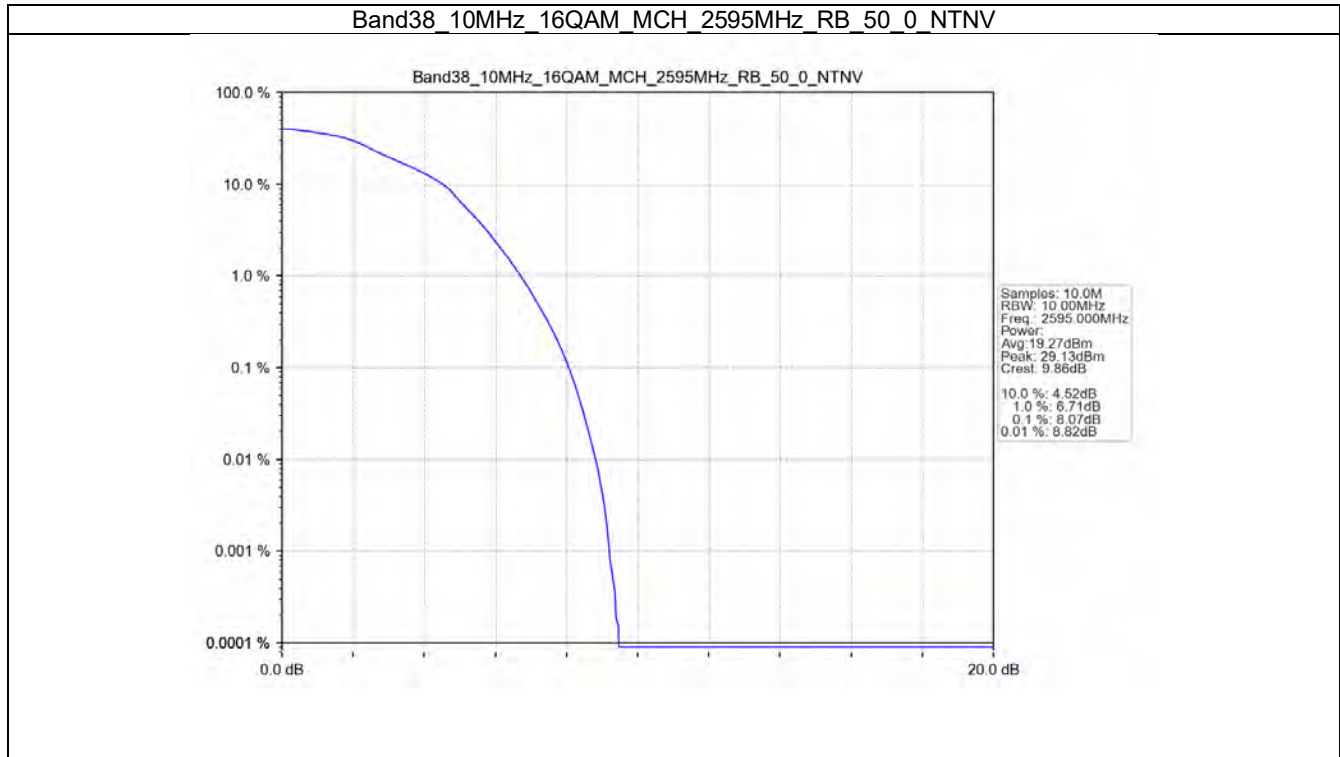


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Rev.: 01

Page: 111 of 298



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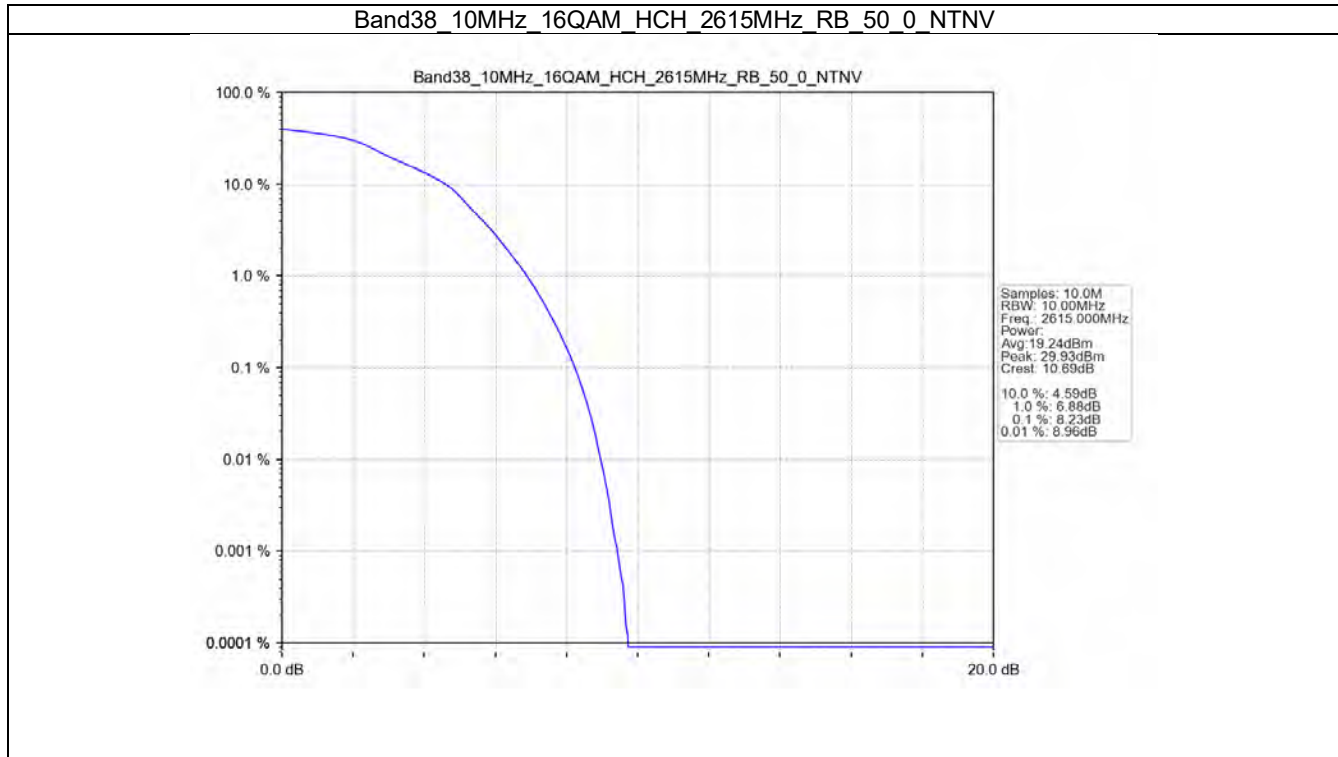


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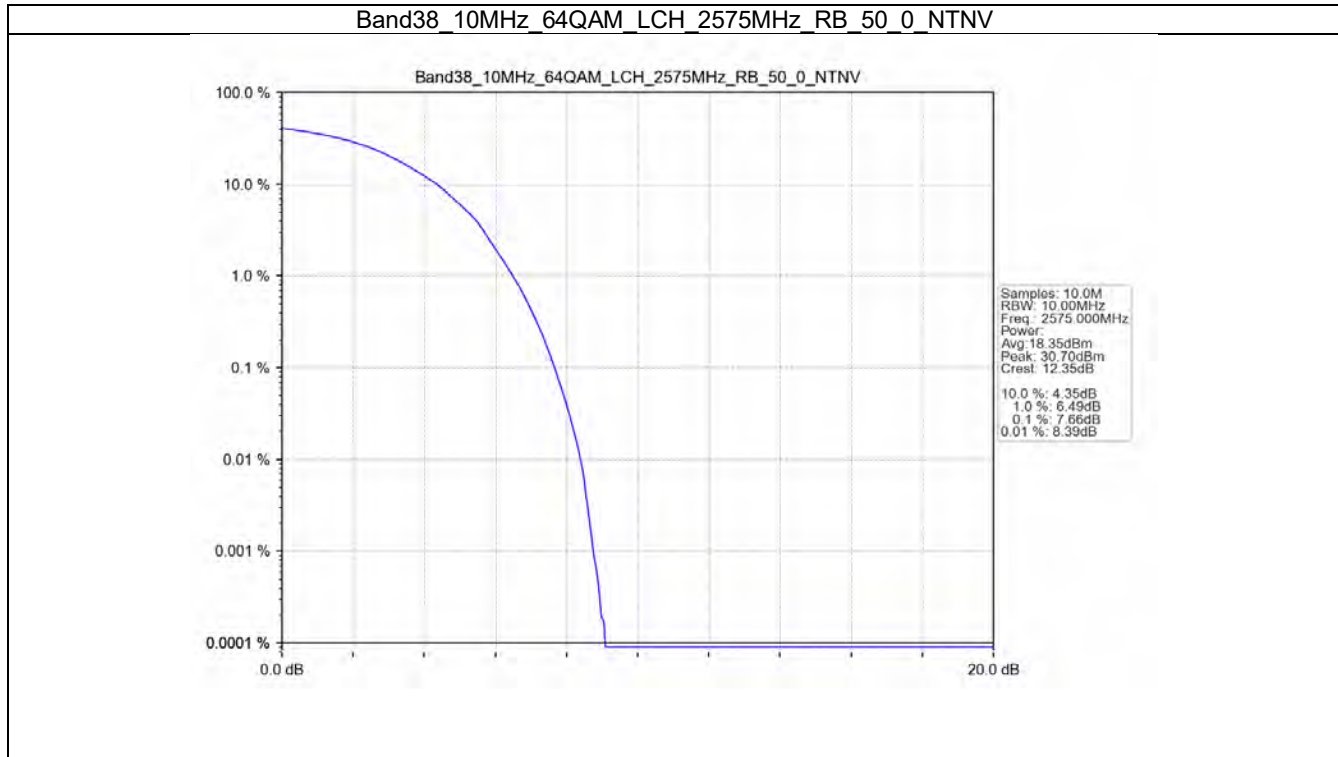


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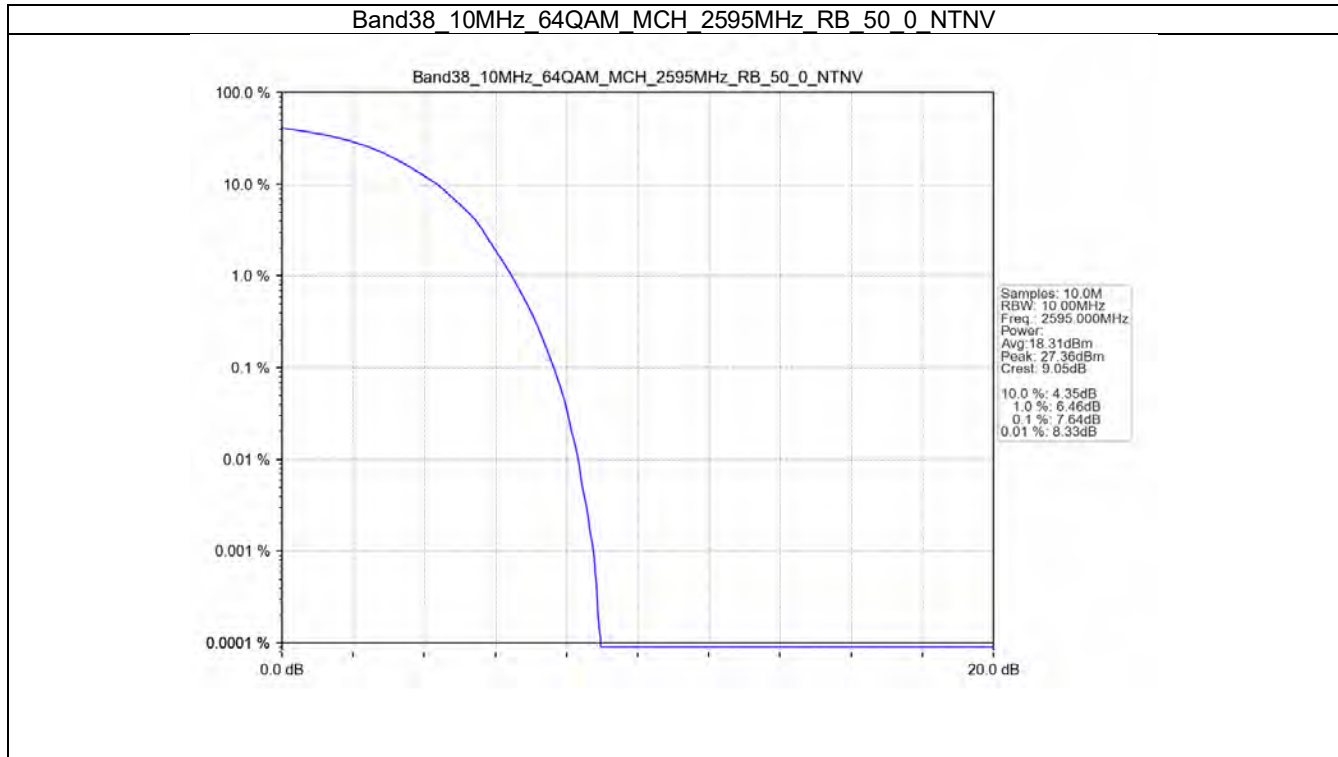


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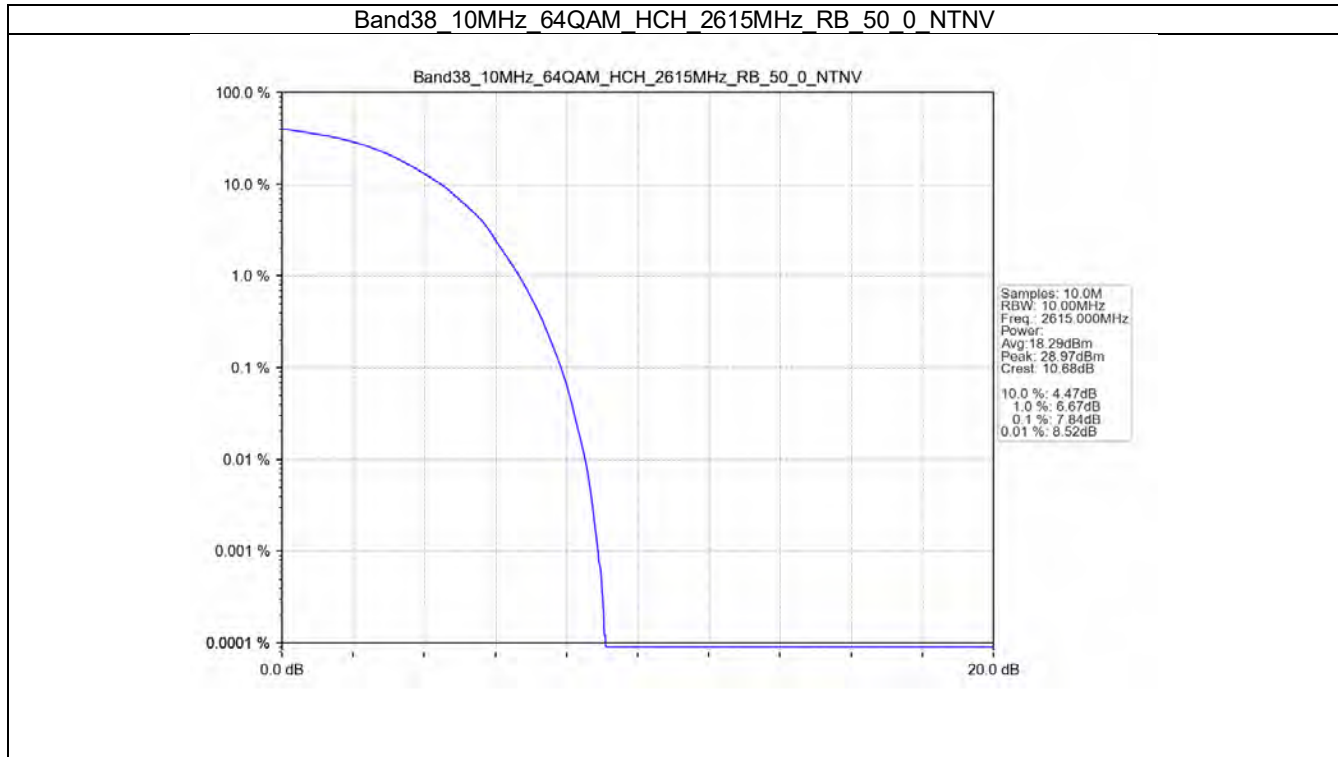


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Report No.: SZCR240200059401
Rev.: 01
Page: 116 of 298

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	8.04	<=13	Pass
	2595	75	0	7.44	<=13	Pass
	2612.5	75	0	7.36	<=13	Pass
16QAM	2577.5	75	0	8.35	<=13	Pass
	2595	75	0	8.40	<=13	Pass
	2612.5	75	0	7.90	<=13	Pass
64QAM	2577.5	75	0	7.86	<=13	Pass
	2595	75	0	7.42	<=13	Pass
	2612.5	75	0	7.39	<=13	Pass



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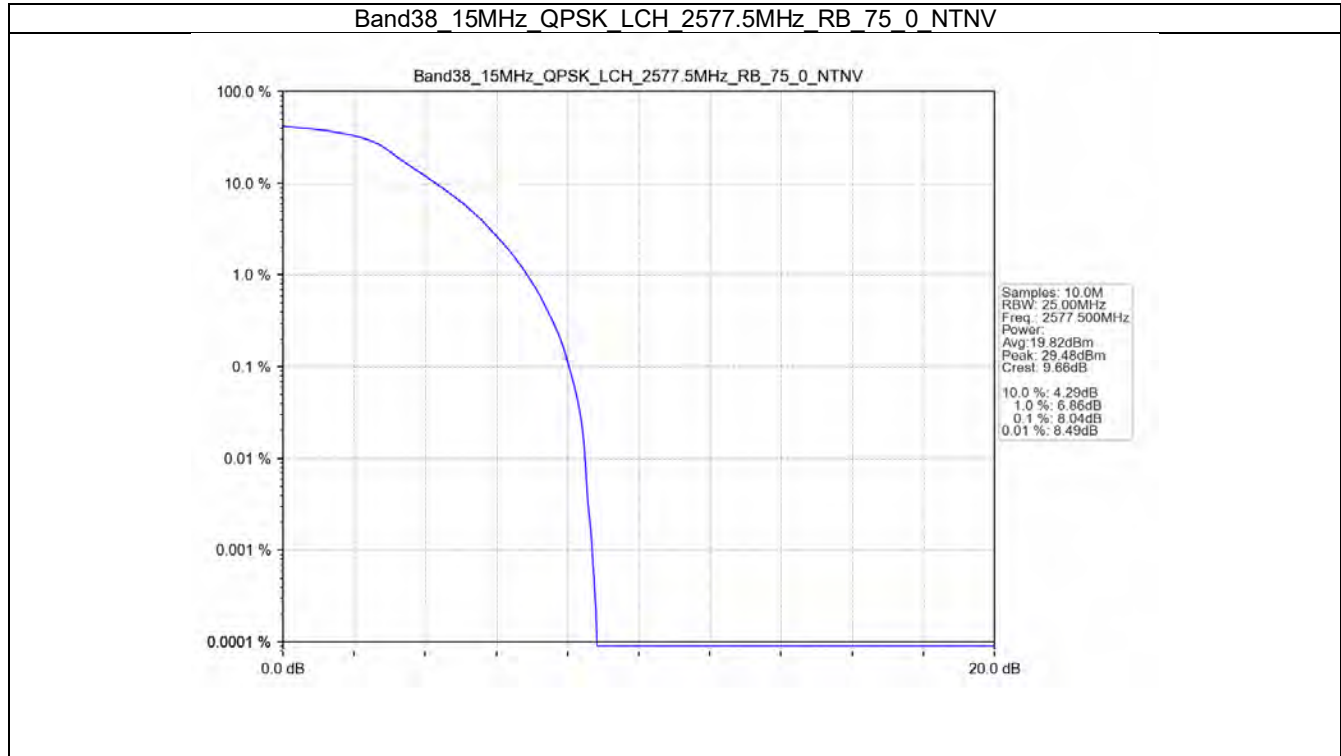
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Rev.: 01

Page: 117 of 298

4.3.2 Test Graph



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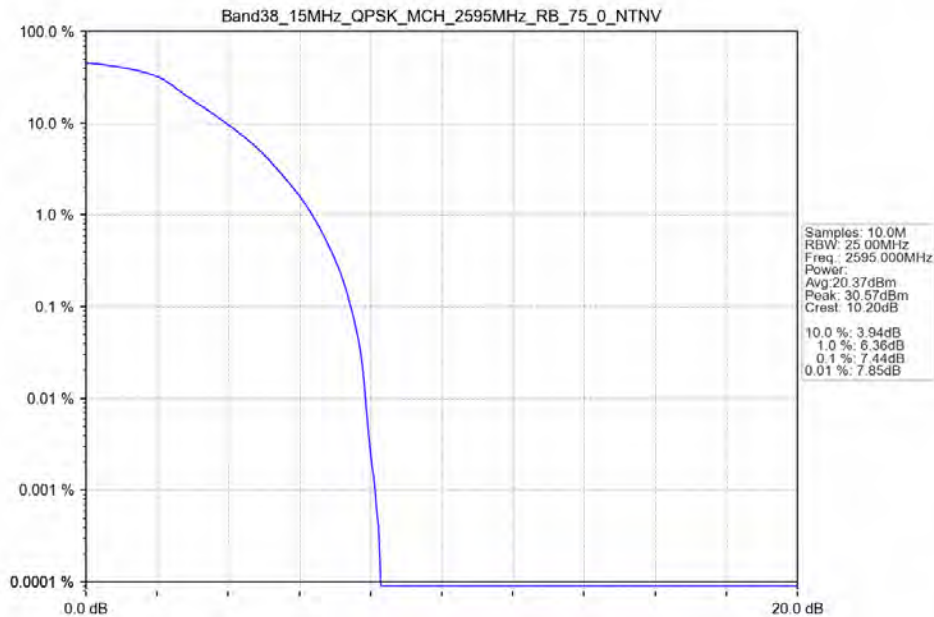
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Band38_15MHz_QPSK_MCH_2595MHz_RB_75_0_NTNV



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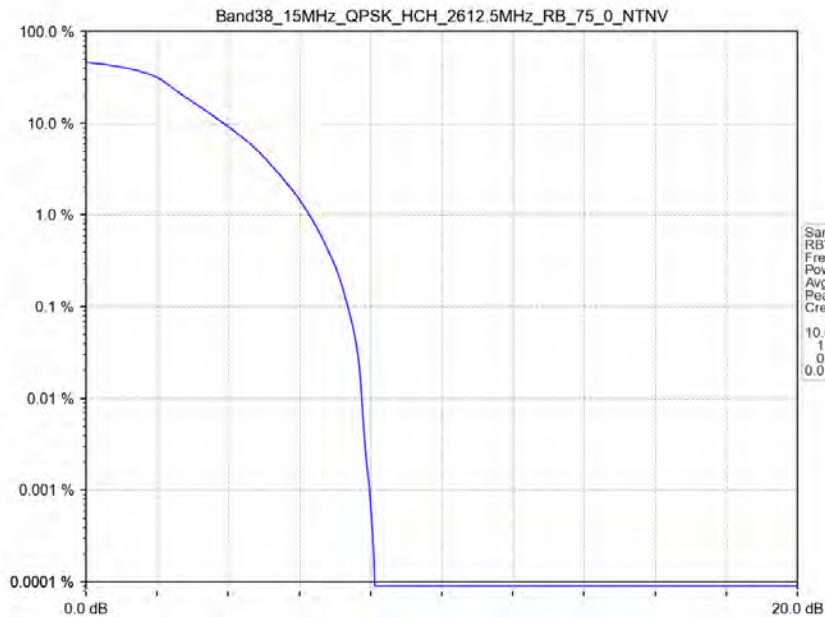
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Report No.: SZCR240200059401

Rev.: 01

Page: 119 of 298

Band38_15MHz_QPSK_HCH_2612.5MHz_RB_75_0_NTNV



Samples: 10.0M
RBW: 25.00MHz
Freq: 2612.500MHz
Power:
Avg: 20.58dBm
Peak: 28.76dBm
Crest: 8.18dB
10.0 %: 3.87dB
1.0 %: 6.28dB
0.1 %: 7.36dB
0.01 %: 7.75dB



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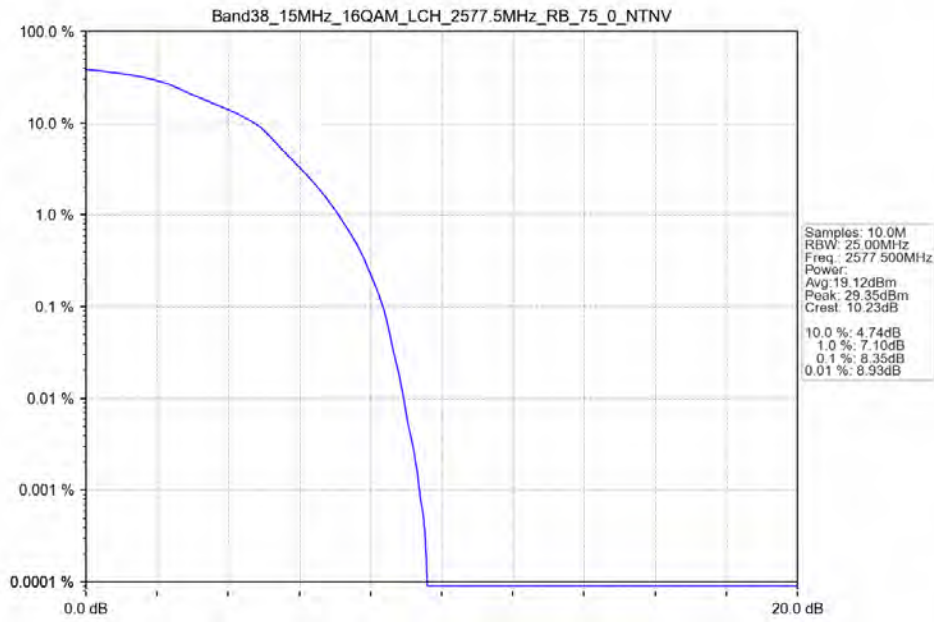
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Band38_15MHz_16QAM_LCH_2577.5MHz_RB_75_0_NTNV



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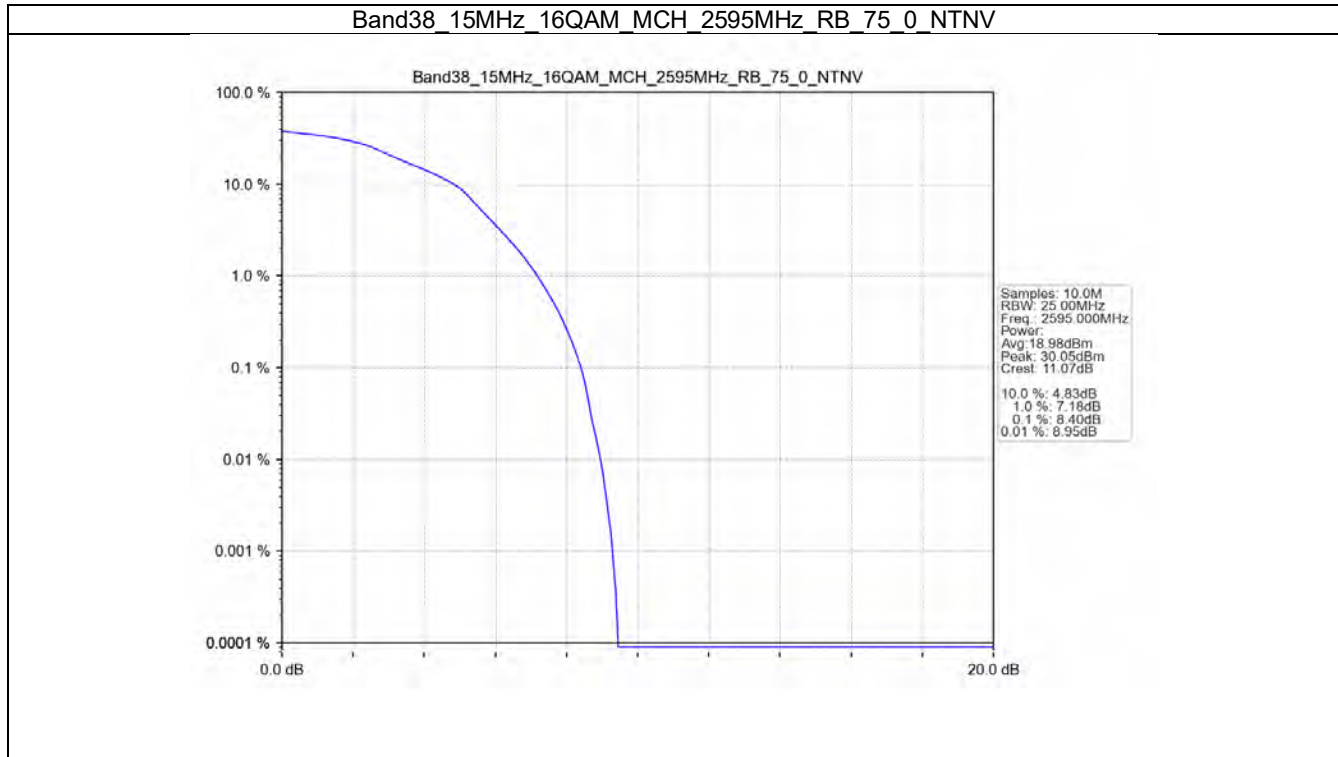


SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240200059401

Rev.: 01

Page: 121 of 298



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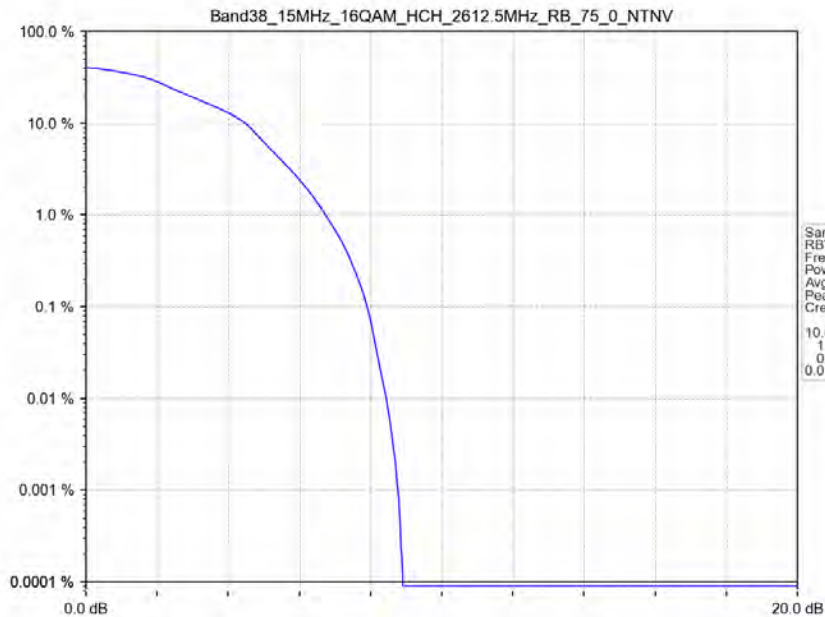
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240200059401

Rev.: 01

Page: 122 of 298

Band38_15MHz_16QAM_HCH_2612.5MHz_RB_75_0_NTNV



Samples: 10.0M
RBW: 25.00MHz
Freq: 2612.500MHz
Power:
Avg: 19.64dBm
Peak: 29.50dBm
Crest: 9.86dB

10.0 %: 4.47dB
1.0 %: 6.73dB
0.1 %: 7.90dB
0.01 %: 8.44dB



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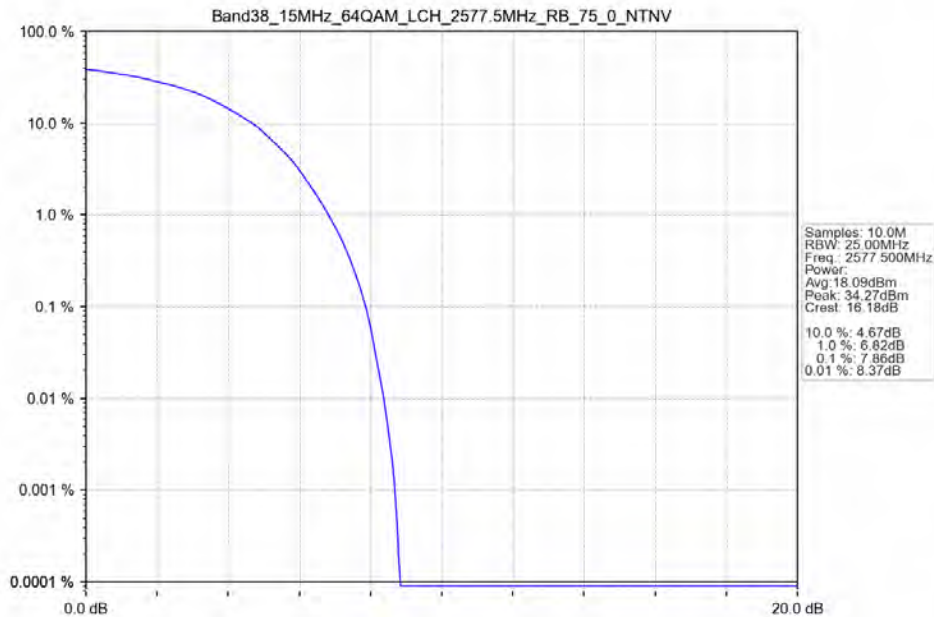
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Report No.: SZCR240200059401

Rev.: 01

Page: 123 of 298

Band38_15MHz_64QAM_LCH_2577.5MHz_RB_75_0_NTNV



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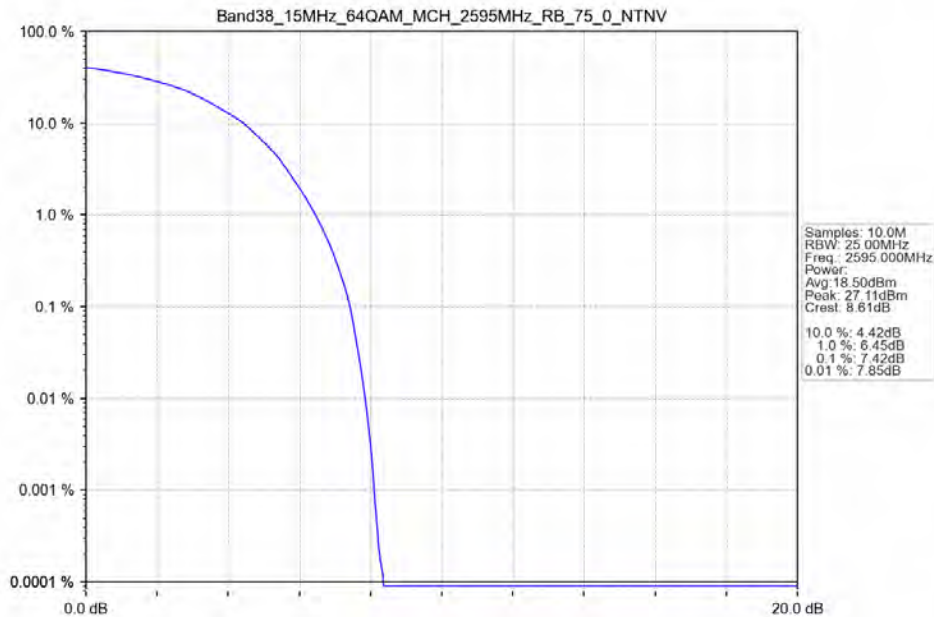
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Report No.: SZCR240200059401

Rev.: 01

Page: 124 of 298

Band38_15MHz_64QAM_MCH_2595MHz_RB_75_0_NTNV



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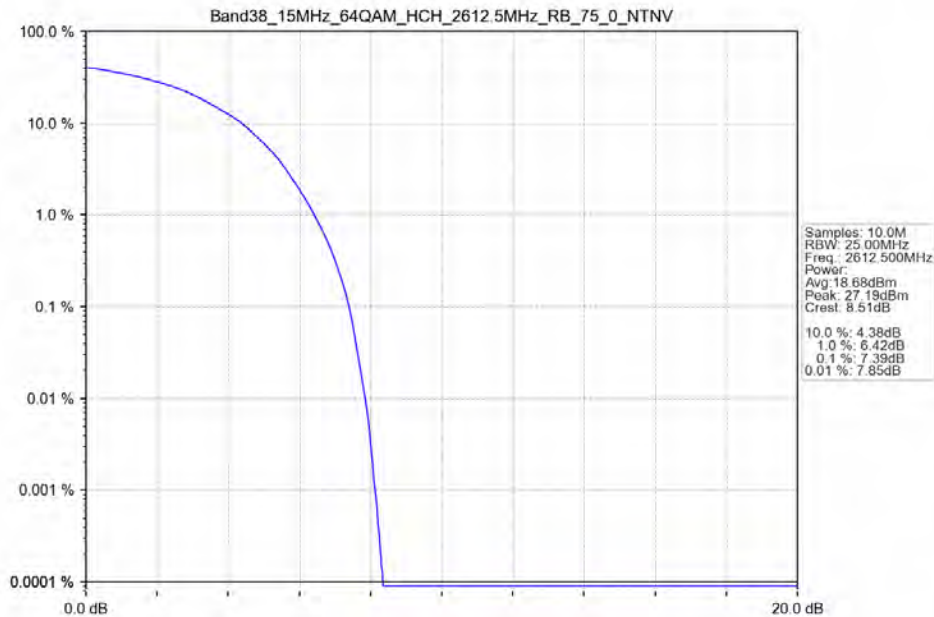
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Report No.: SZCR240200059401

Rev.: 01

Page: 125 of 298

Band38_15MHz_64QAM_HCH_2612.5MHz_RB_75_0_NTNV



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Report No.: SZCR240200059401
Rev.: 01
Page: 126 of 298

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	7.49	<=13	Pass
	2595	100	0	7.16	<=13	Pass
	2610	100	0	7.33	<=13	Pass
16QAM	2580	100	0	8.44	<=13	Pass
	2595	100	0	7.99	<=13	Pass
	2610	100	0	8.16	<=13	Pass
64QAM	2580	100	0	7.87	<=13	Pass
	2595	100	0	7.91	<=13	Pass
	2610	100	0	7.58	<=13	Pass



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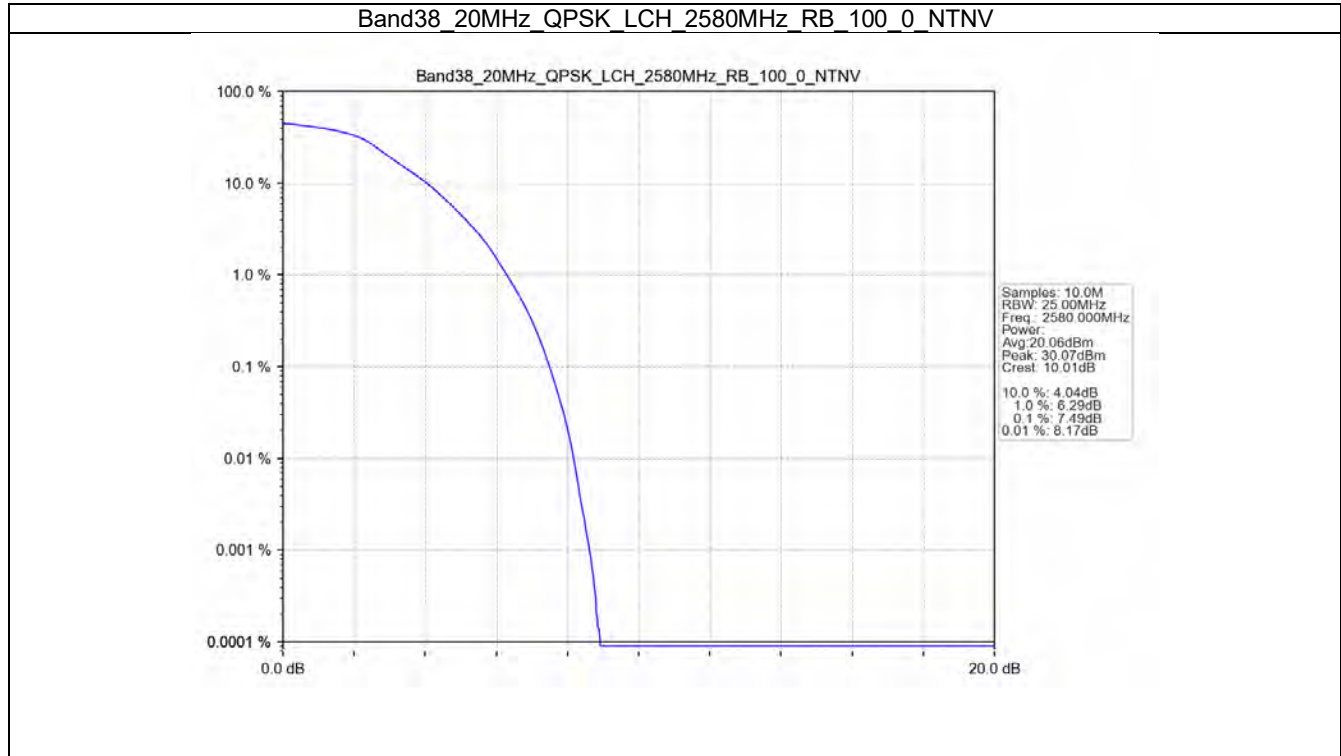
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Report No.: SZCR240200059401

Rev.: 01

Page: 127 of 298

4.4.2 Test Graph



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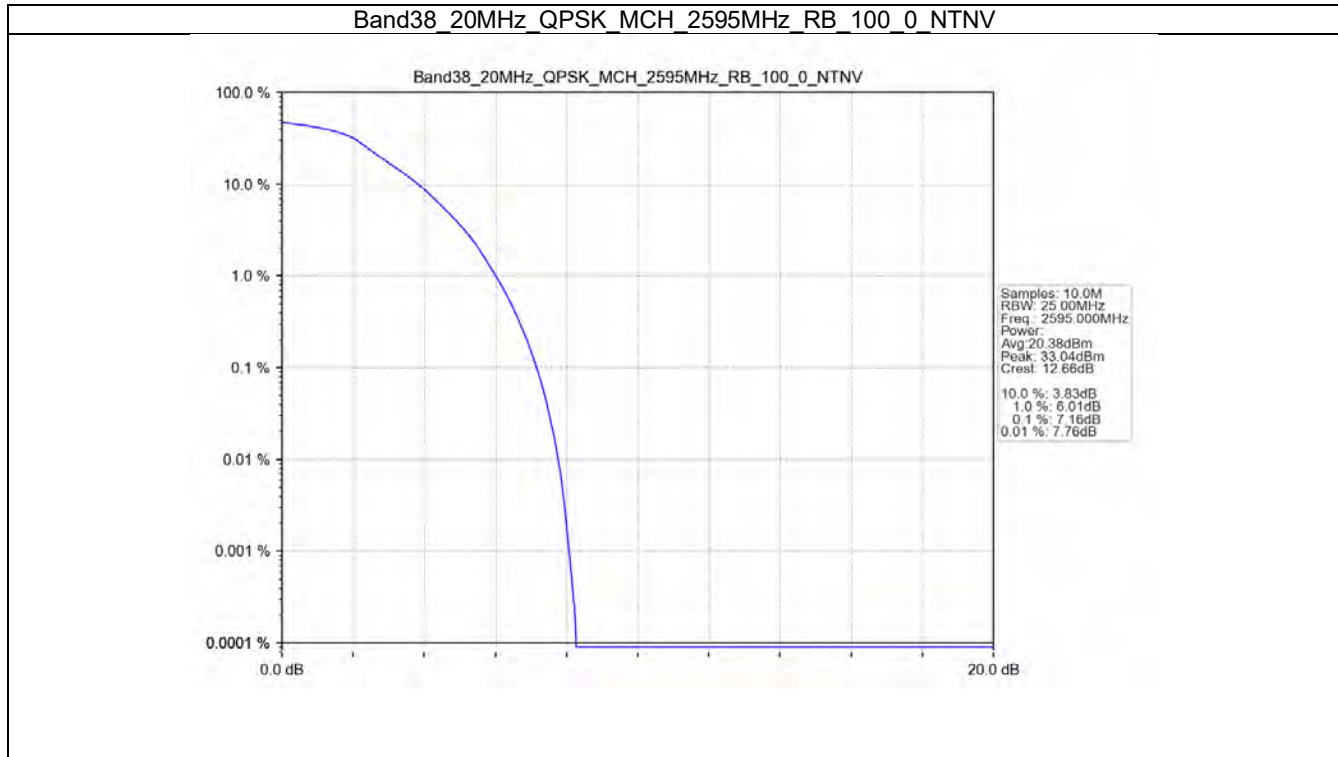


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Report No.: SZCR240200059401

Rev.: 01

Page: 128 of 298



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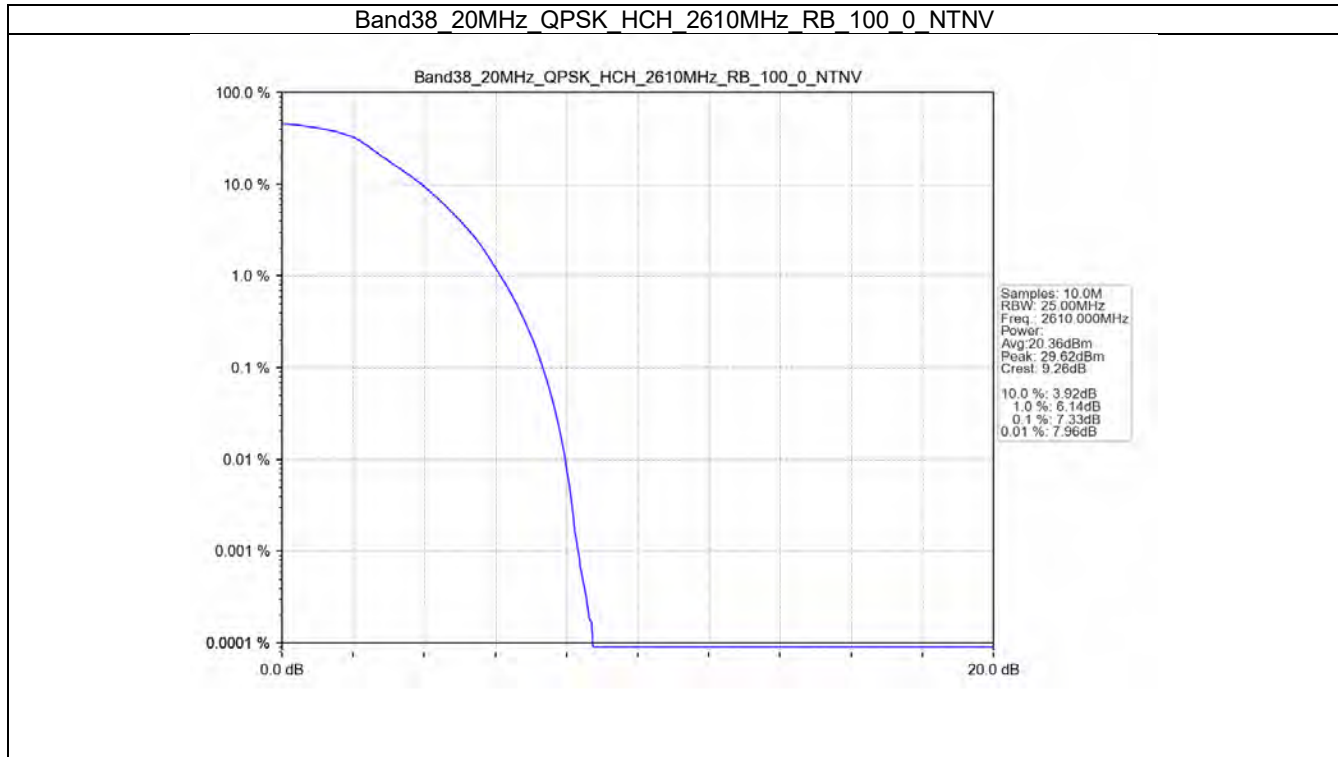


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Report No.: SZCR240200059401

Rev.: 01

Page: 129 of 298



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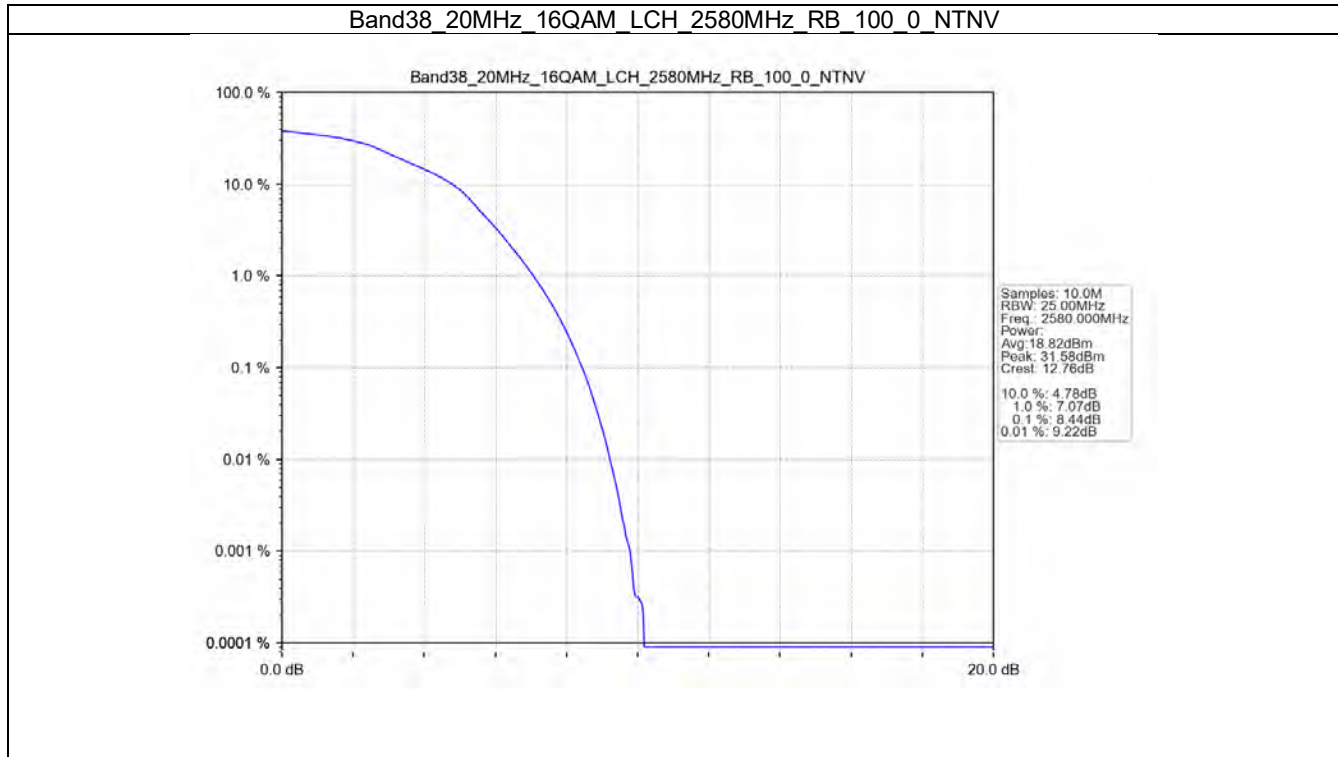


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Rev.: 01

Page: 130 of 298



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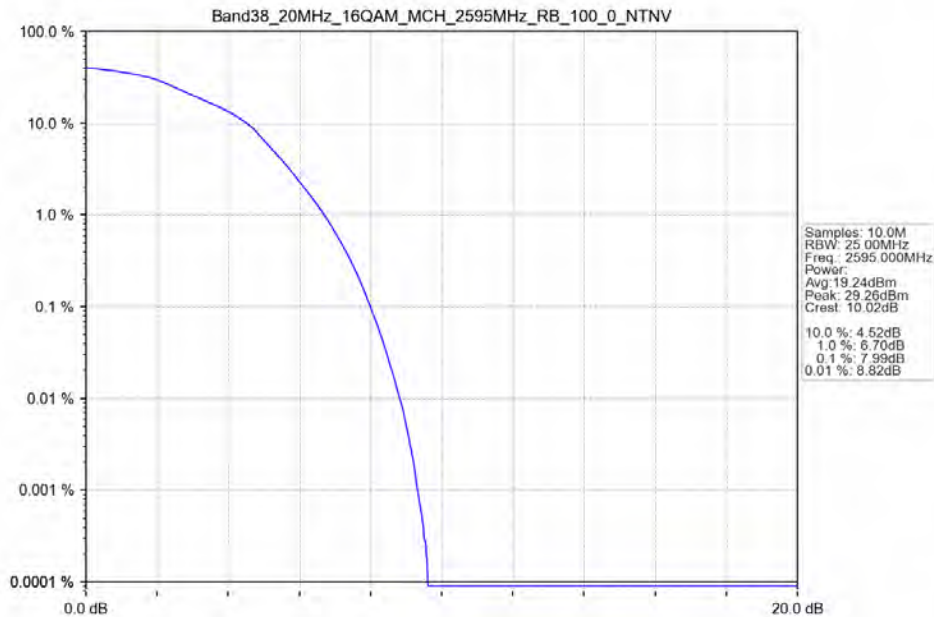
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Report No.: SZCR240200059401

Rev.: 01

Page: 131 of 298

Band38_20MHz_16QAM_MCH_2595MHz_RB_100_0_NTNV



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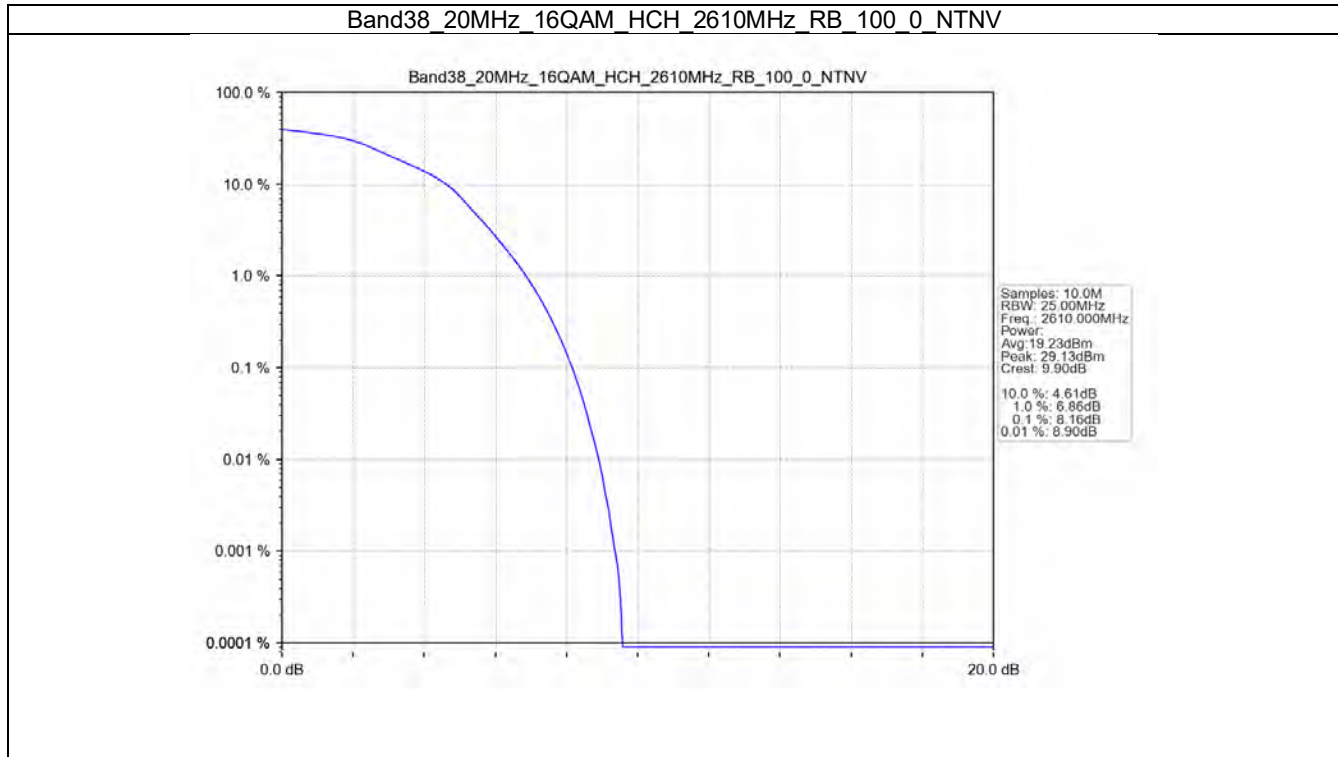


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Report No.: SZCR240200059401

Rev.: 01

Page: 132 of 298



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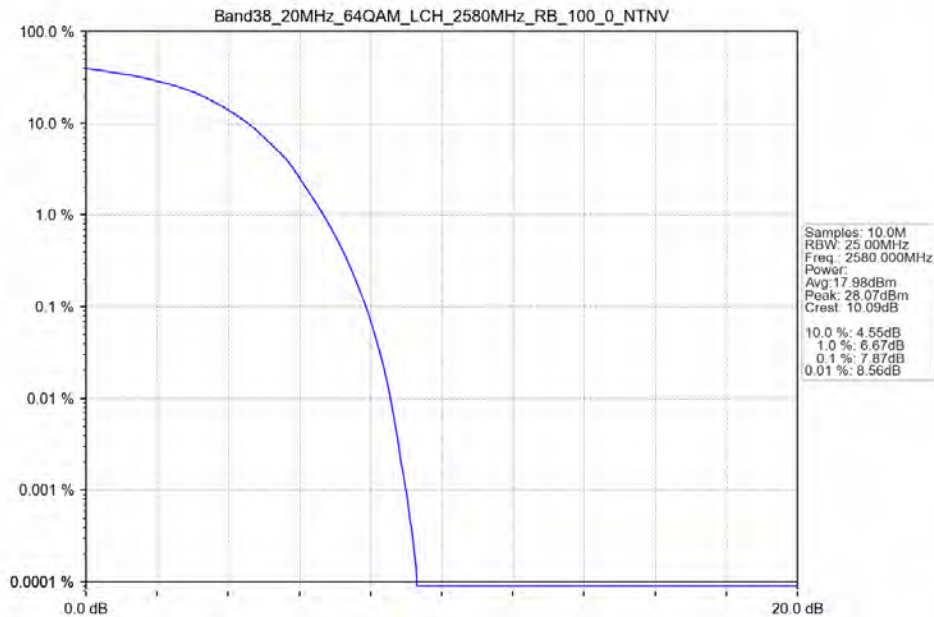
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Report No.: SZCR240200059401

Rev.: 01

Page: 133 of 298

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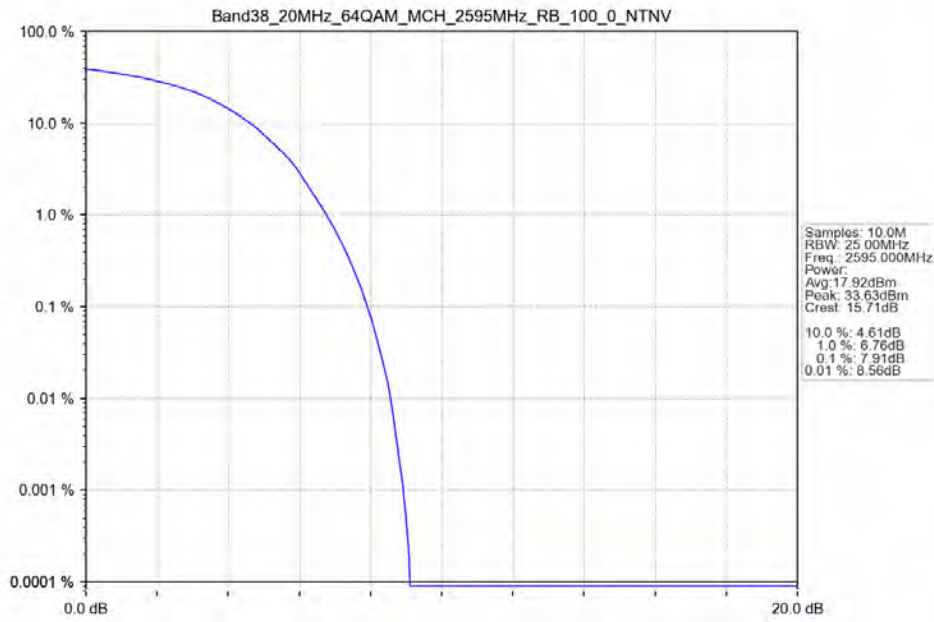
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Report No.: SZCR240200059401

Rev.: 01

Page: 134 of 298

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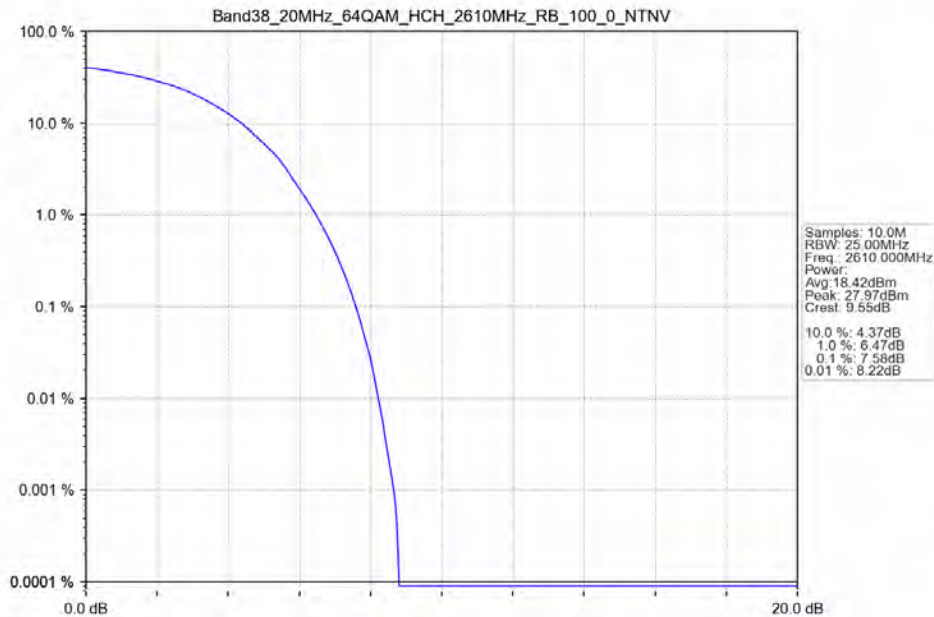
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240200059401

Rev.: 01

Page: 135 of 298

Band38_20MHz_64QAM_HCH_2610MHz_RB_100_0_NTNV



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Report No.: SZCR240200059401
Rev.: 01
Page: 136 of 298

5. Spurious Emission & Band Edge

5.1 B38_5MHz

5.1.1 Test Result

Band: 38 / Bandwidth: 5MHz / NTNV					
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
16QAM	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
64QAM	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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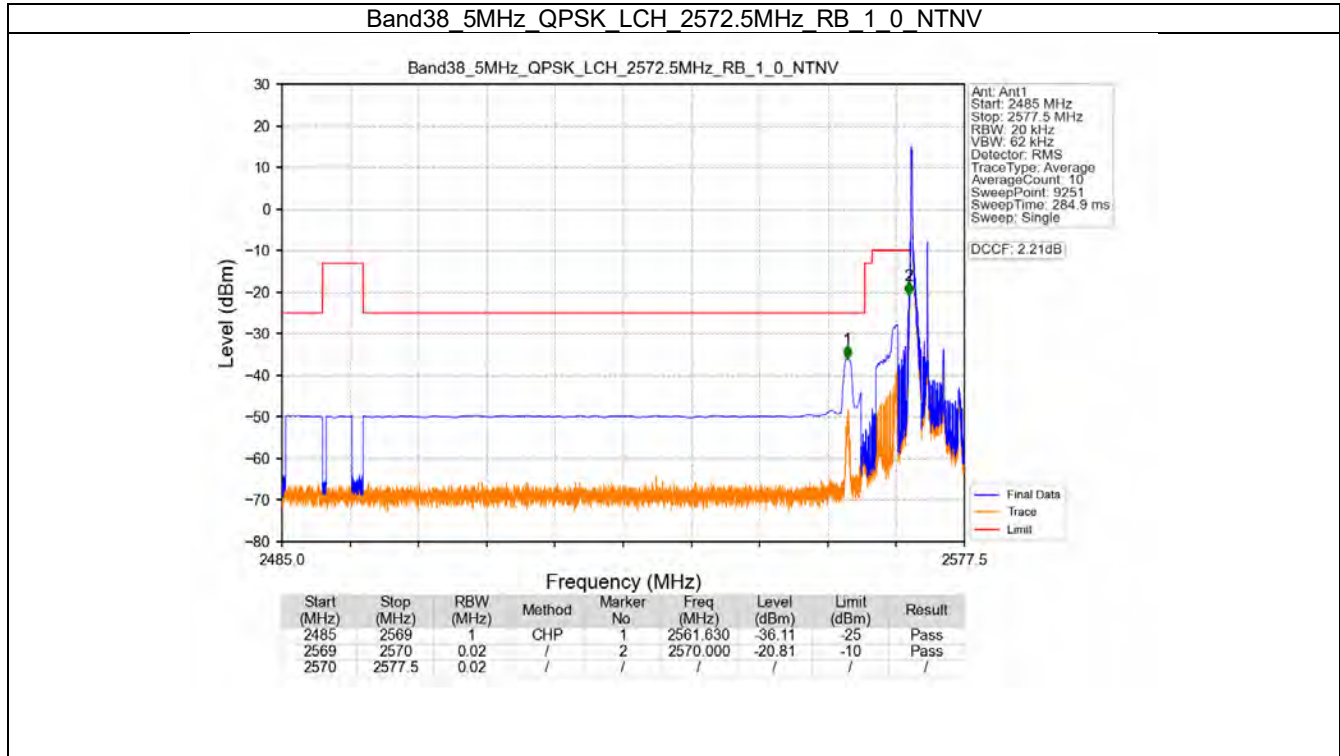
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Report No.: SZCR240200059401

Rev.: 01

Page: 137 of 298

5.1.2 Test Graph



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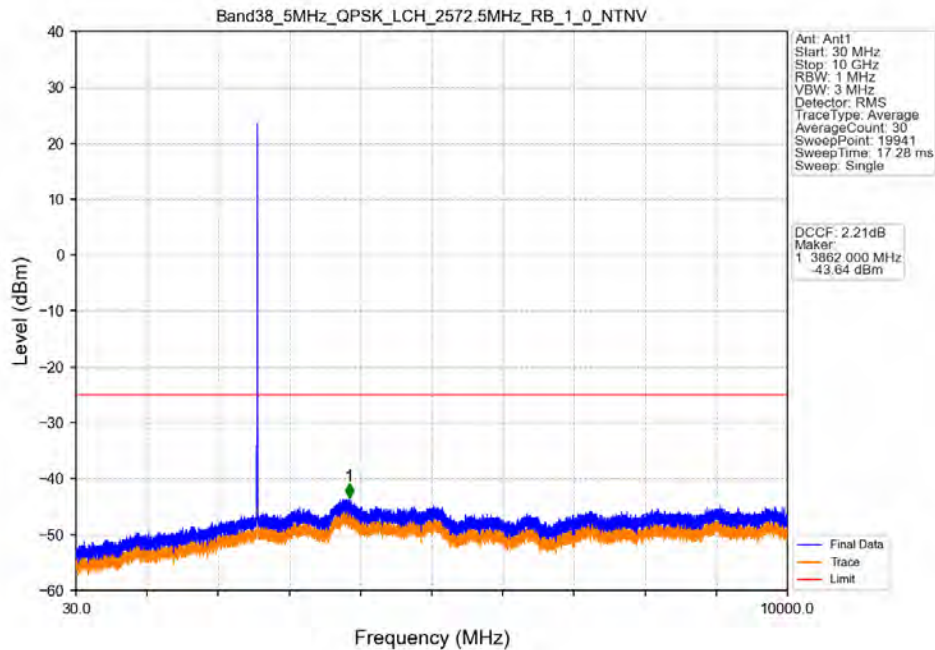
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Report No.: SZCR240200059401

Rev.: 01

Page: 138 of 298

Band38_5MHz_QPSK_LCH_2572.5MHz_RB_1_0_NTNV



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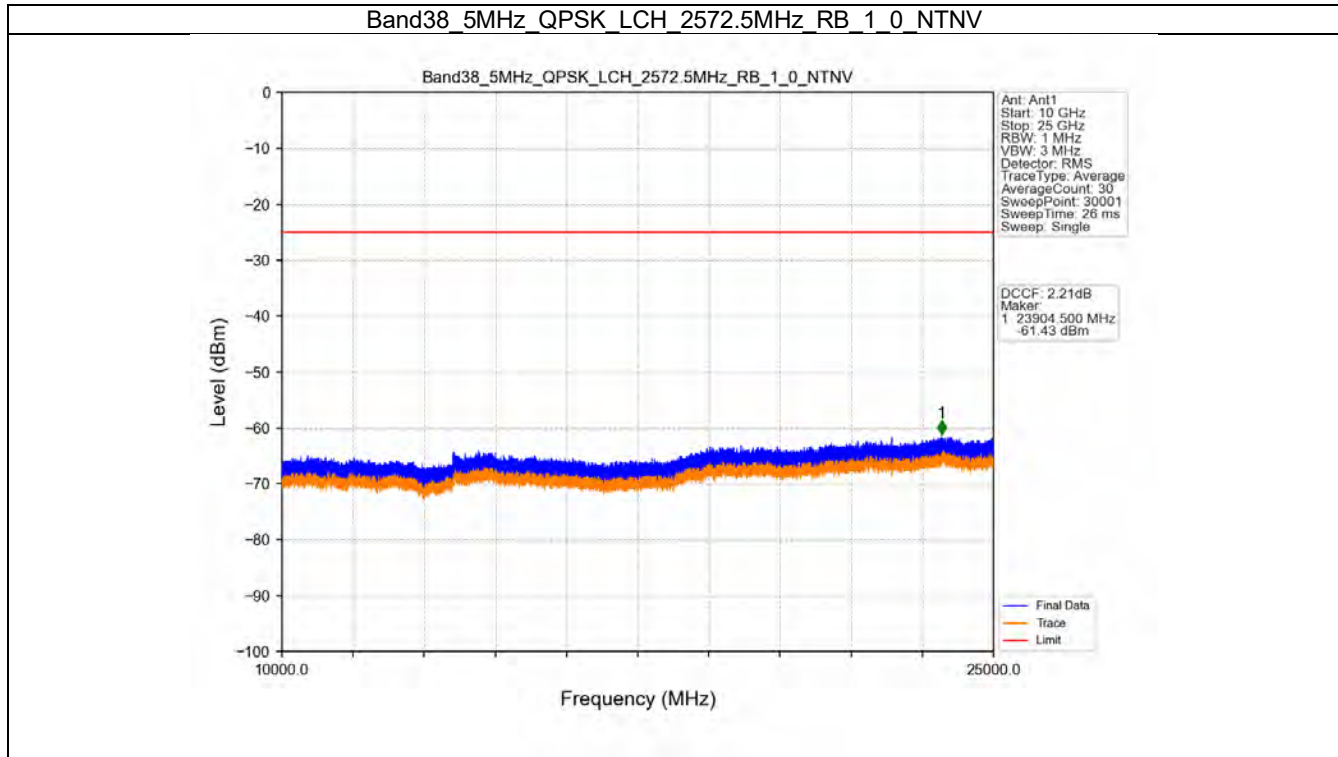


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Report No.: SZCR240200059401

Rev.: 01

Page: 139 of 298



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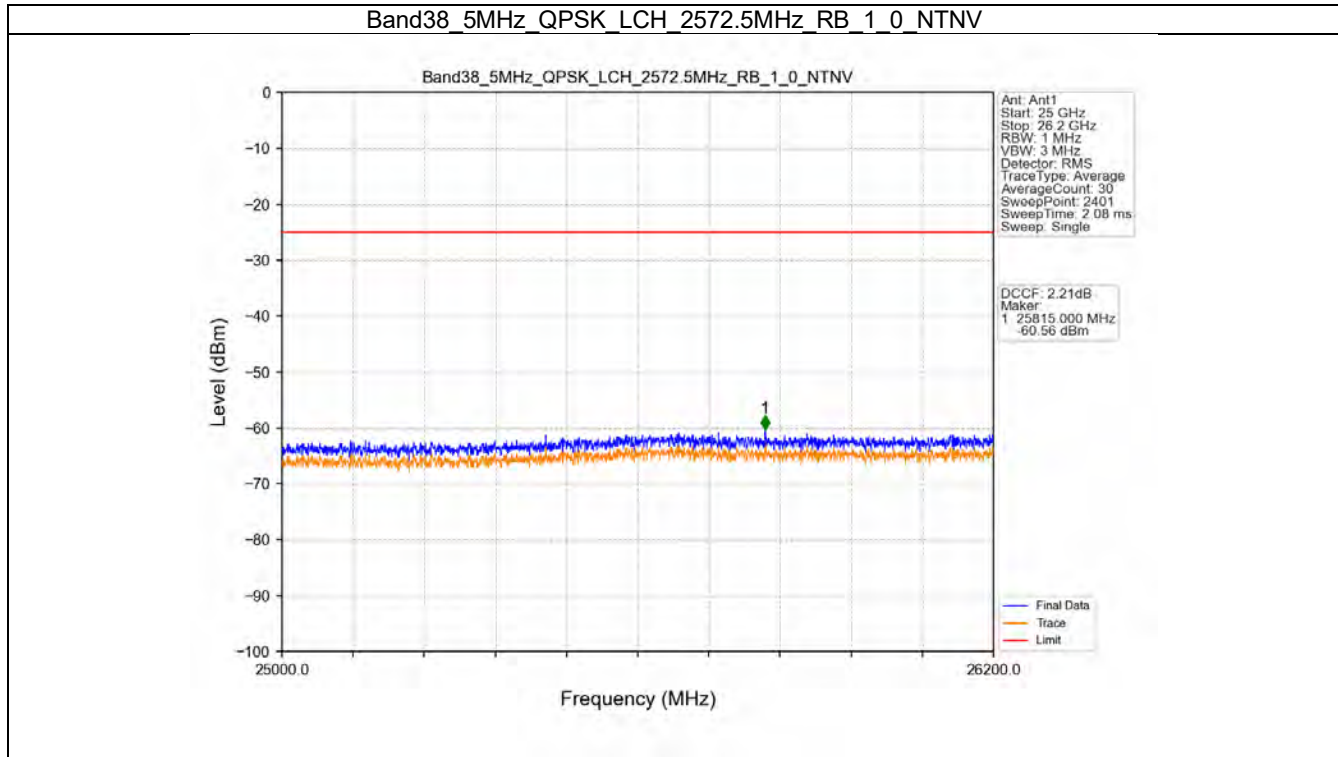


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Report No.: SZCR240200059401

Rev.: 01

Page: 140 of 298



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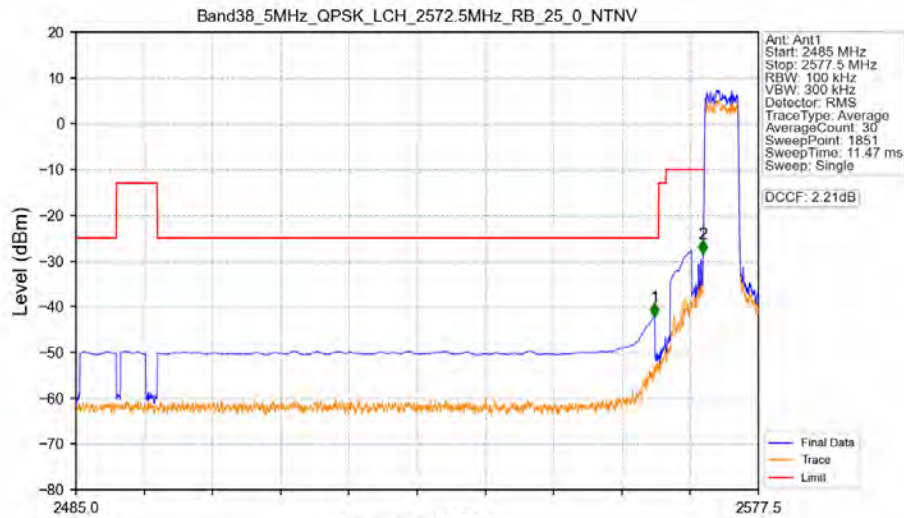
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Report No.: SZCR240200059401

Rev.: 01

Page: 141 of 298

Band38_5MHz_QPSK_LCH_2572.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2569	1	CHP	1	2563.450	-42.22	-25	Pass
2569	2570	0.1	/	2	2570.000	-28.50	-10	Pass
2570	2577.5	0.1	/	/	/	/	/	/



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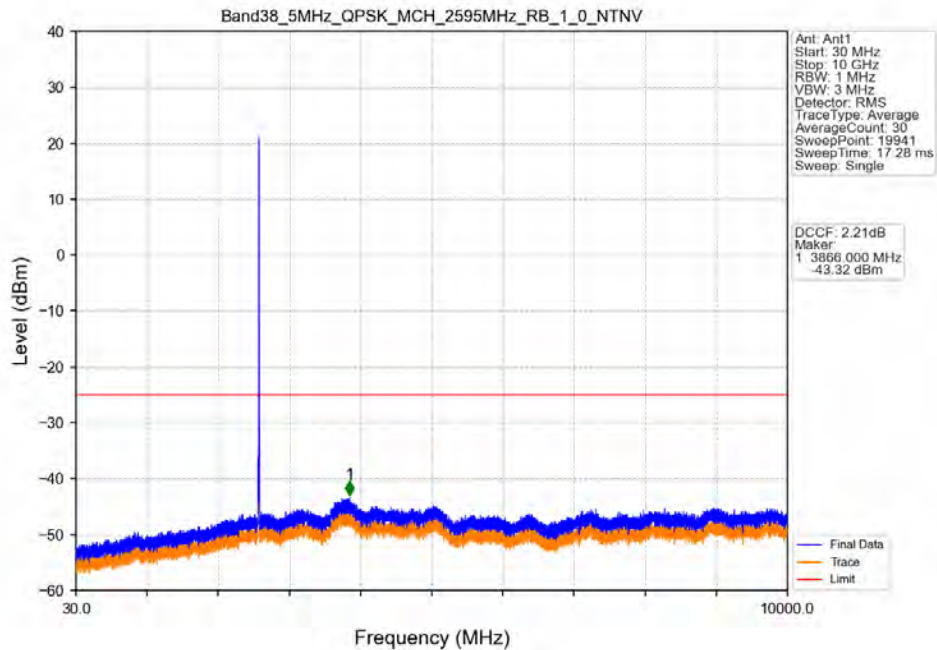
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Report No.: SZCR240200059401

Rev.: 01

Page: 142 of 298

Band38_5MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV



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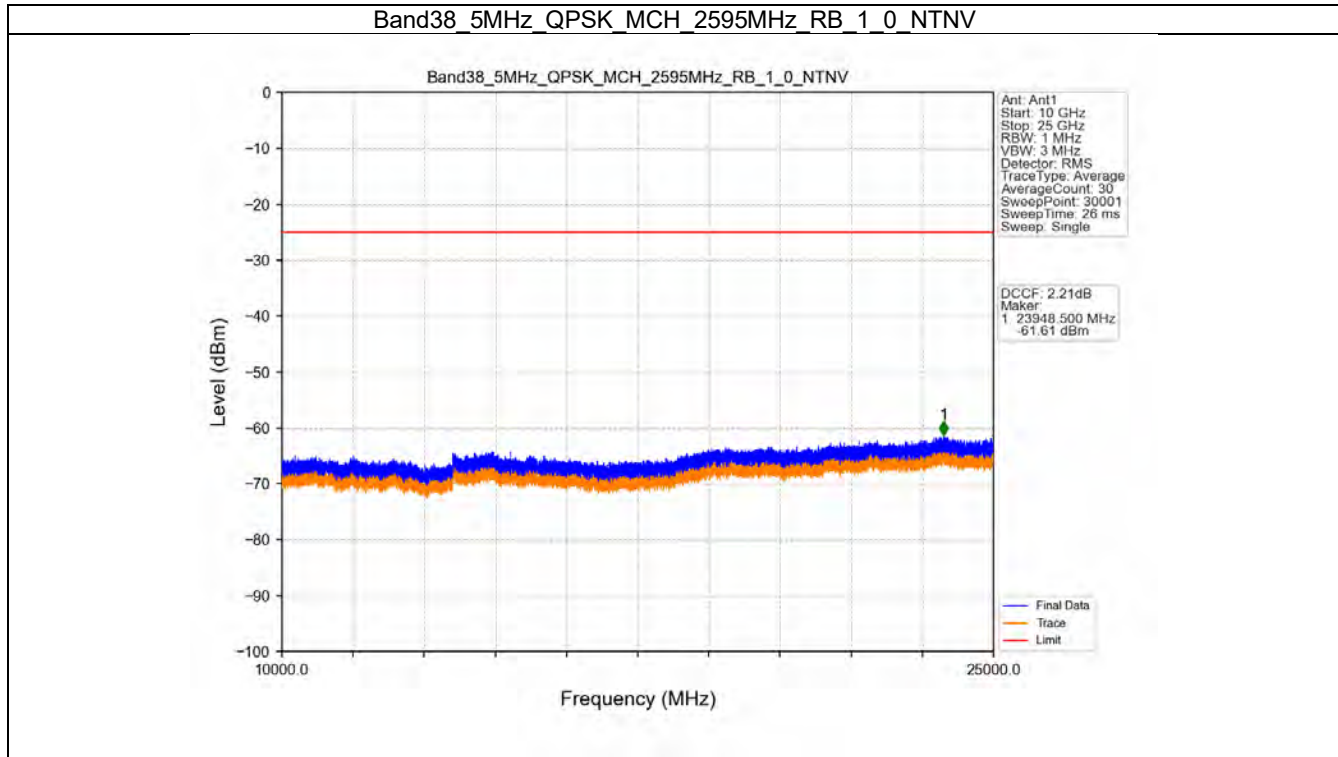


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Rev.: 01

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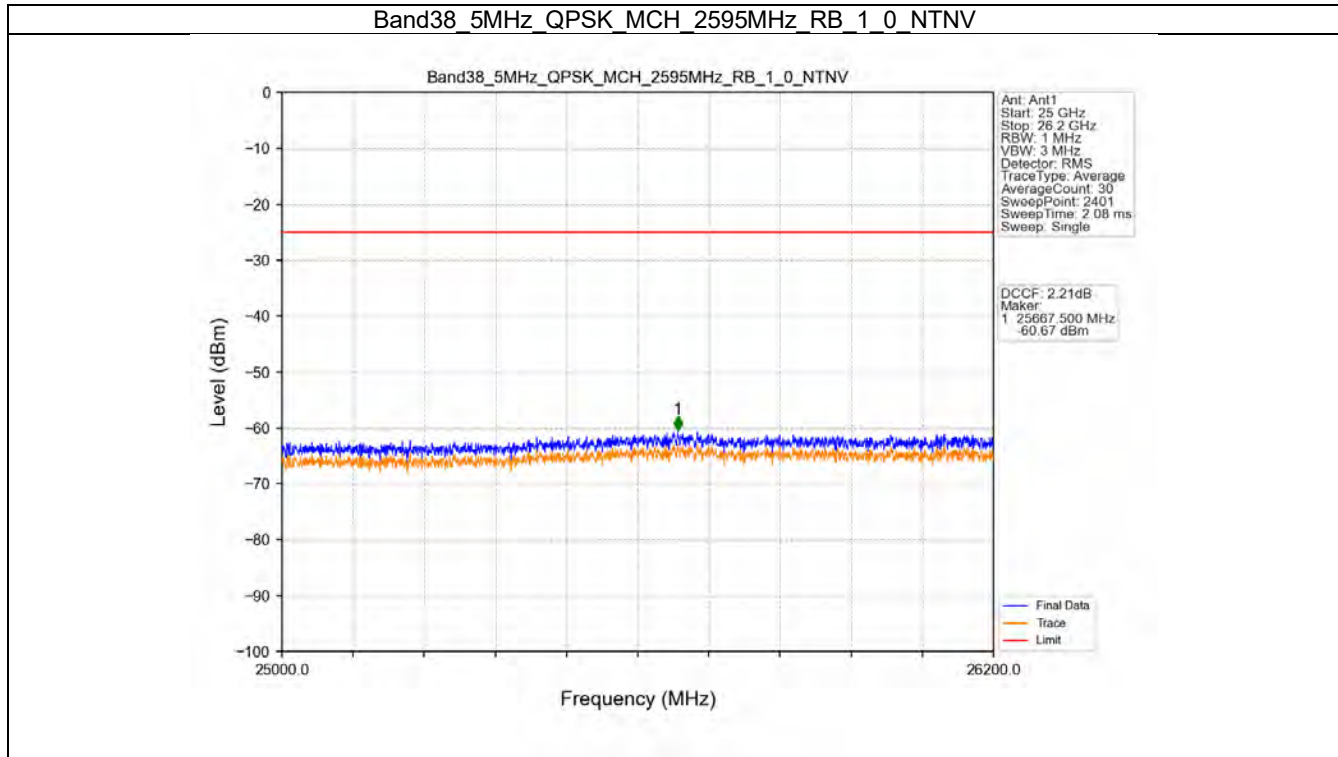


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Report No.: SZCR240200059401

Rev.: 01

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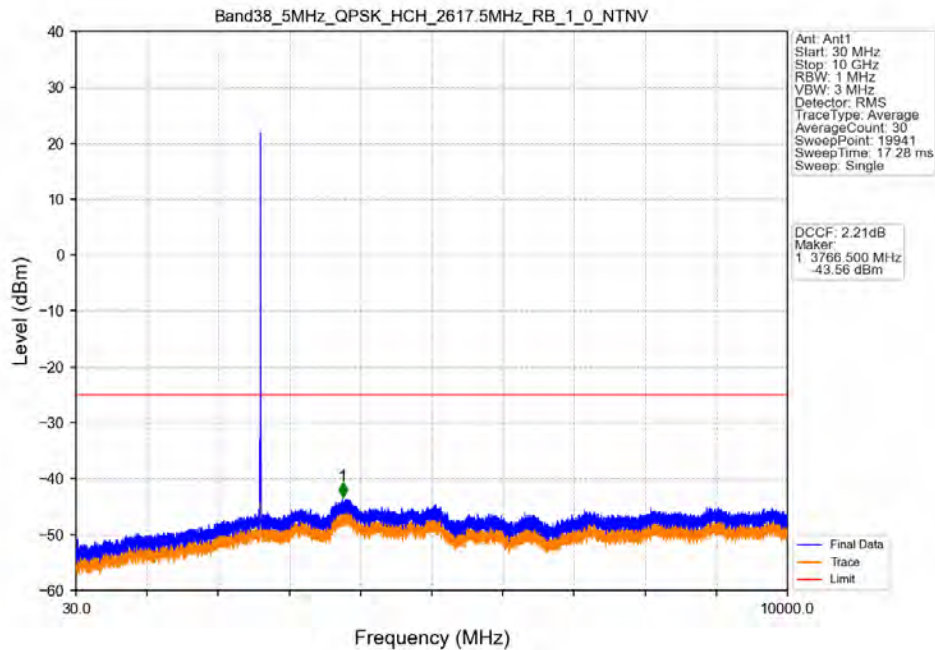
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Report No.: SZCR240200059401

Rev.: 01

Page: 145 of 298

Band38_5MHz_QPSK_HCH_2617.5MHz_RB_1_0_NTNV



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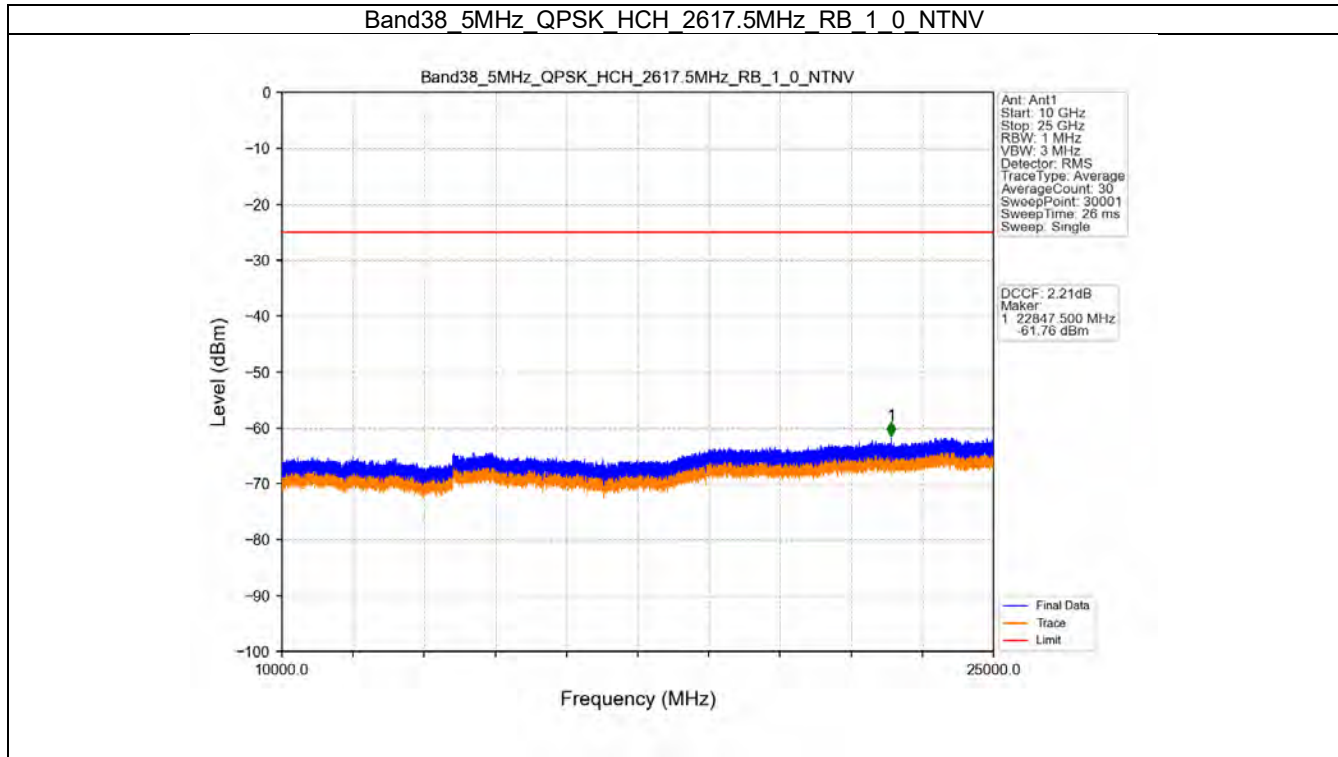


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Rev.: 01

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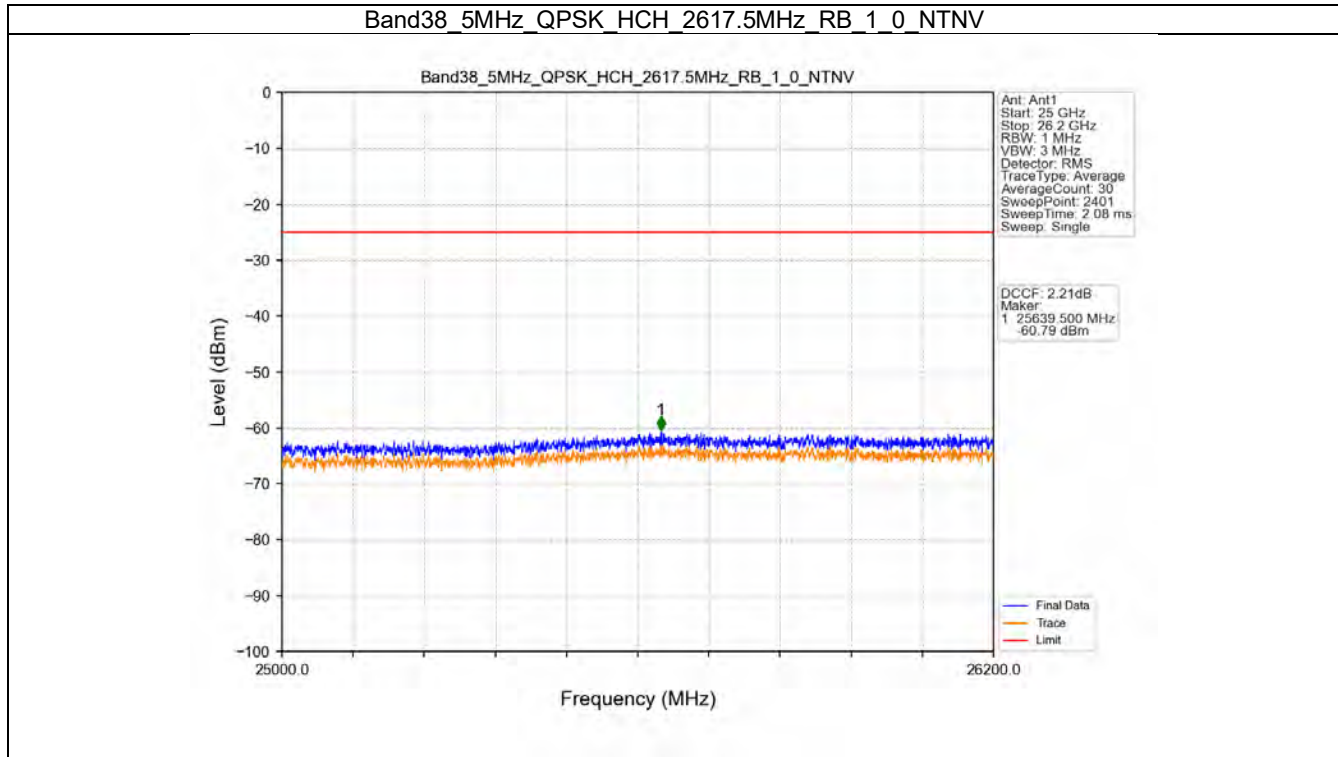


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Rev.: 01

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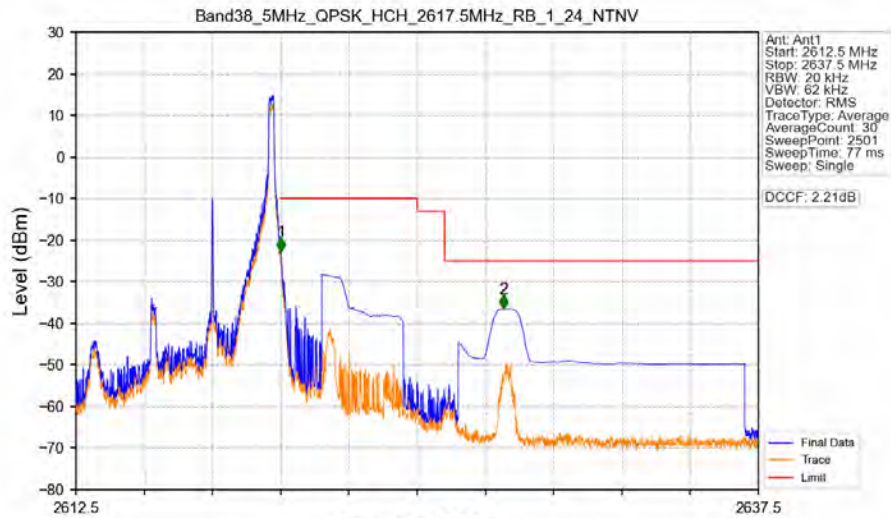
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Page: 148 of 298

Band38_5MHz_QPSK_HCH_2617.5MHz_RB_1_24_NTNV



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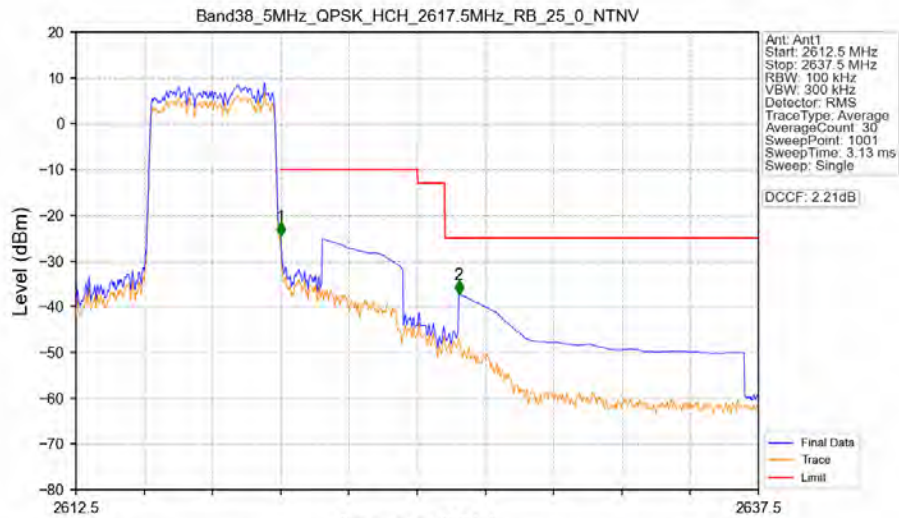
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Report No.: SZCR240200059401

Rev.: 01

Page: 149 of 298

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	0.1	/	1	2620.000	-24.61	-10	Pass
2620	2621	0.1	/	1	2620.000	-24.61	-10	Pass
2621	2637.5	1	CHP	2	2626.525	-37.38	-25	Pass



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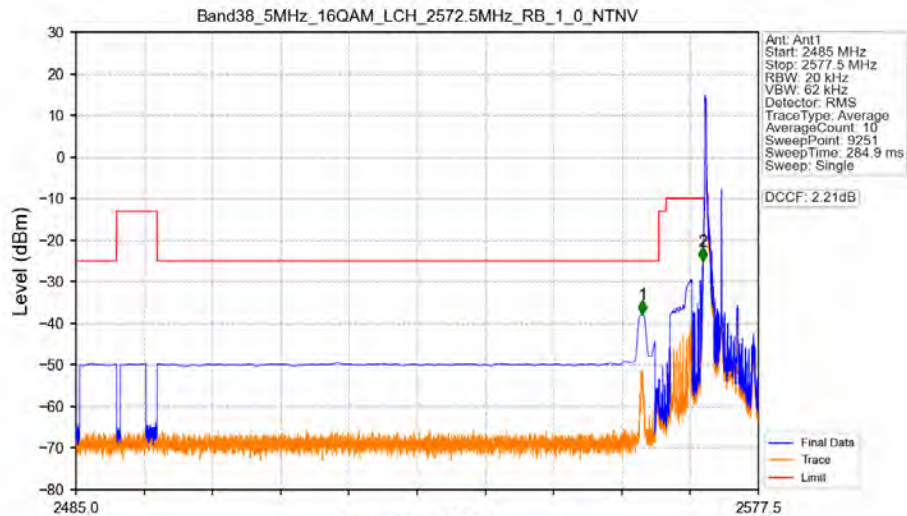
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Report No.: SZCR240200059401

Rev.: 01

Page: 150 of 298

Band38_5MHz_16QAM_LCH_2572.5MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2569	1	CHP	1	2561.770	-37.98	-25	Pass
2569	2570	0.02	/	2	2569.990	-25.16	-10	Pass
2570	2577.5	0.02	/	/	/	/	/	/



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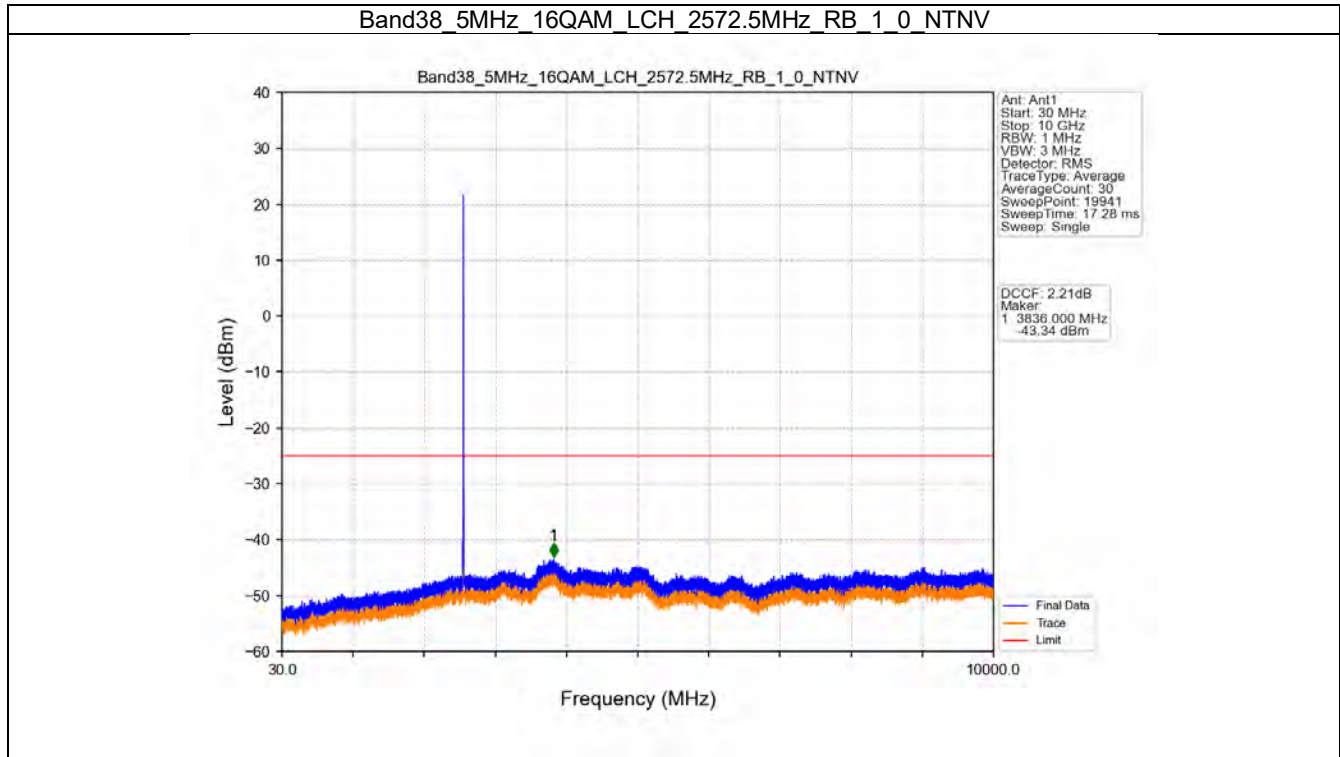


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Report No.: SZCR240200059401

Rev.: 01

Page: 151 of 298



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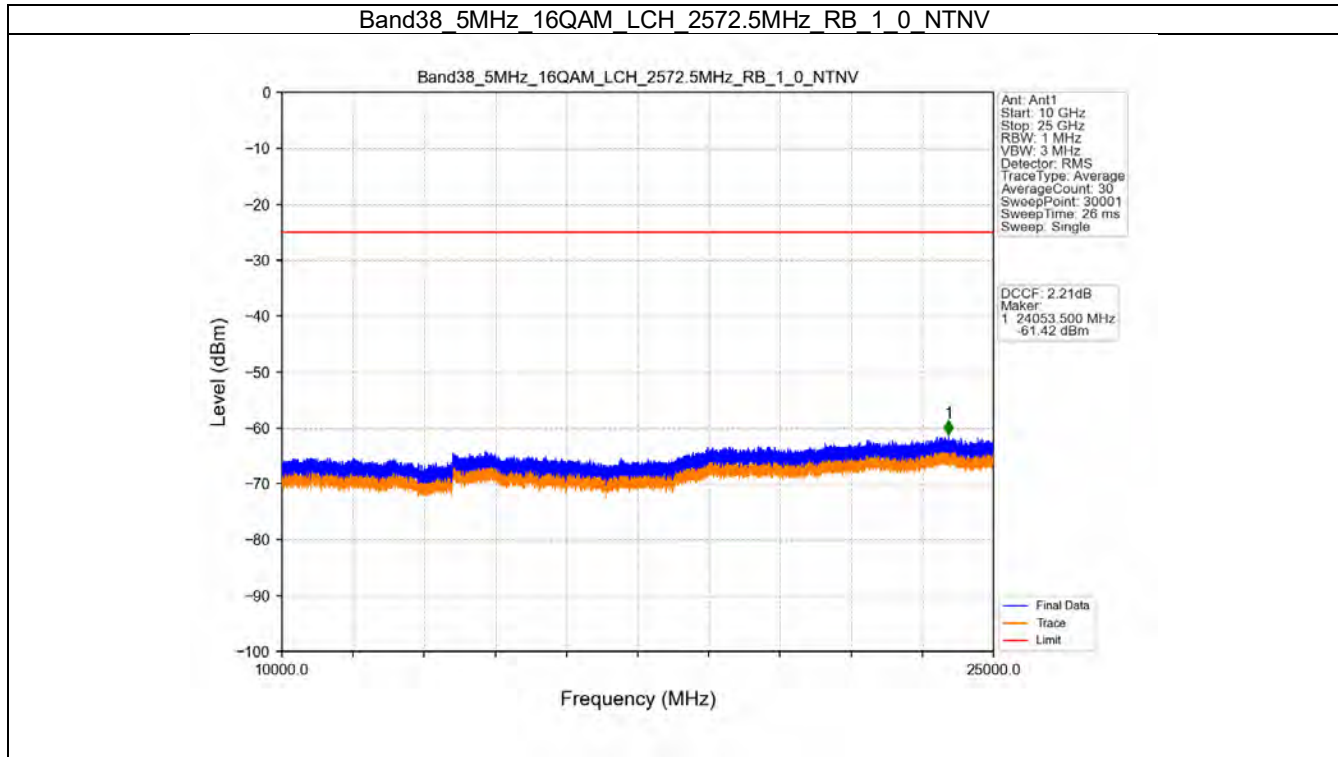


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Report No.: SZCR240200059401

Rev.: 01

Page: 152 of 298



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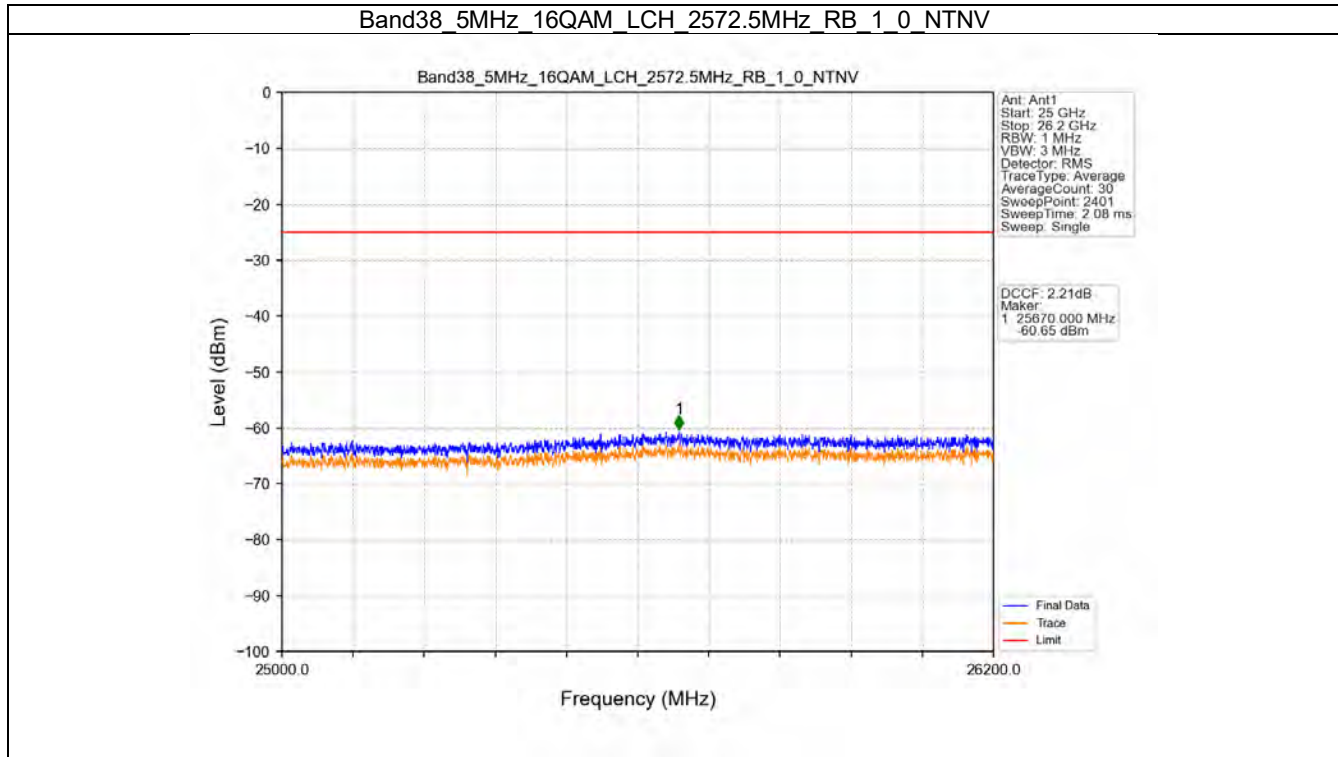


SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240200059401

Rev.: 01

Page: 153 of 298



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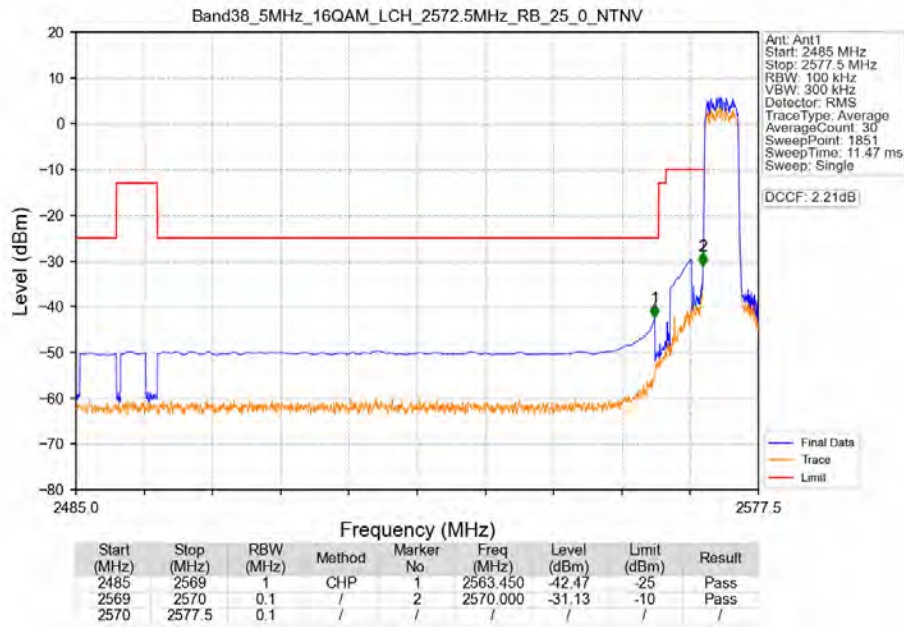
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Report No.: SZCR240200059401

Rev.: 01

Page: 154 of 298

Band38_5MHz_16QAM_LCH_2572.5MHz_RB_25_0_NTNV



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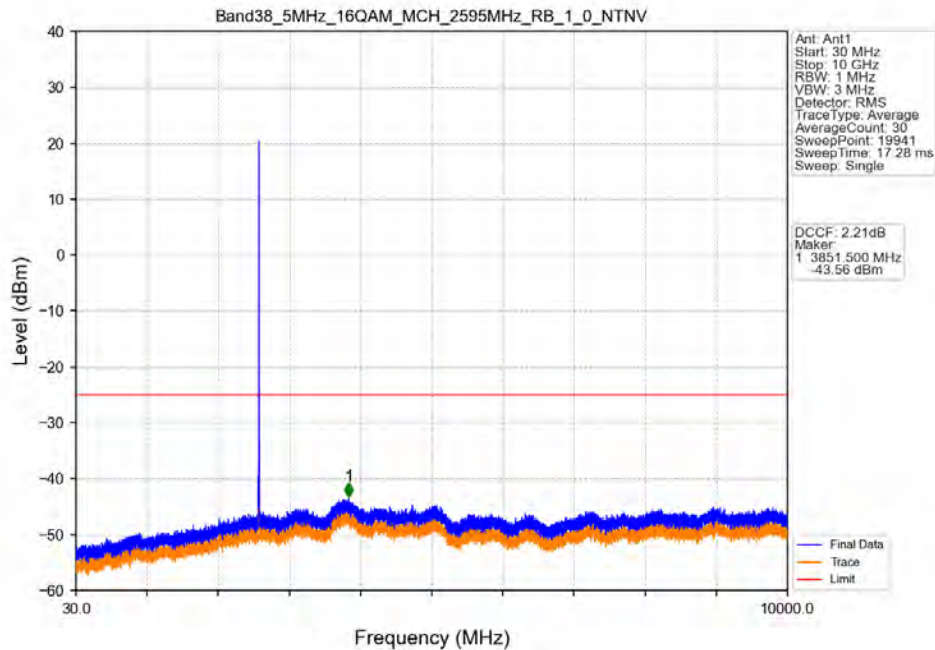
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Report No.: SZCR240200059401

Rev.: 01

Page: 155 of 298

Band38_5MHz_16QAM_MCH_2595MHz_RB_1_0_NTNV



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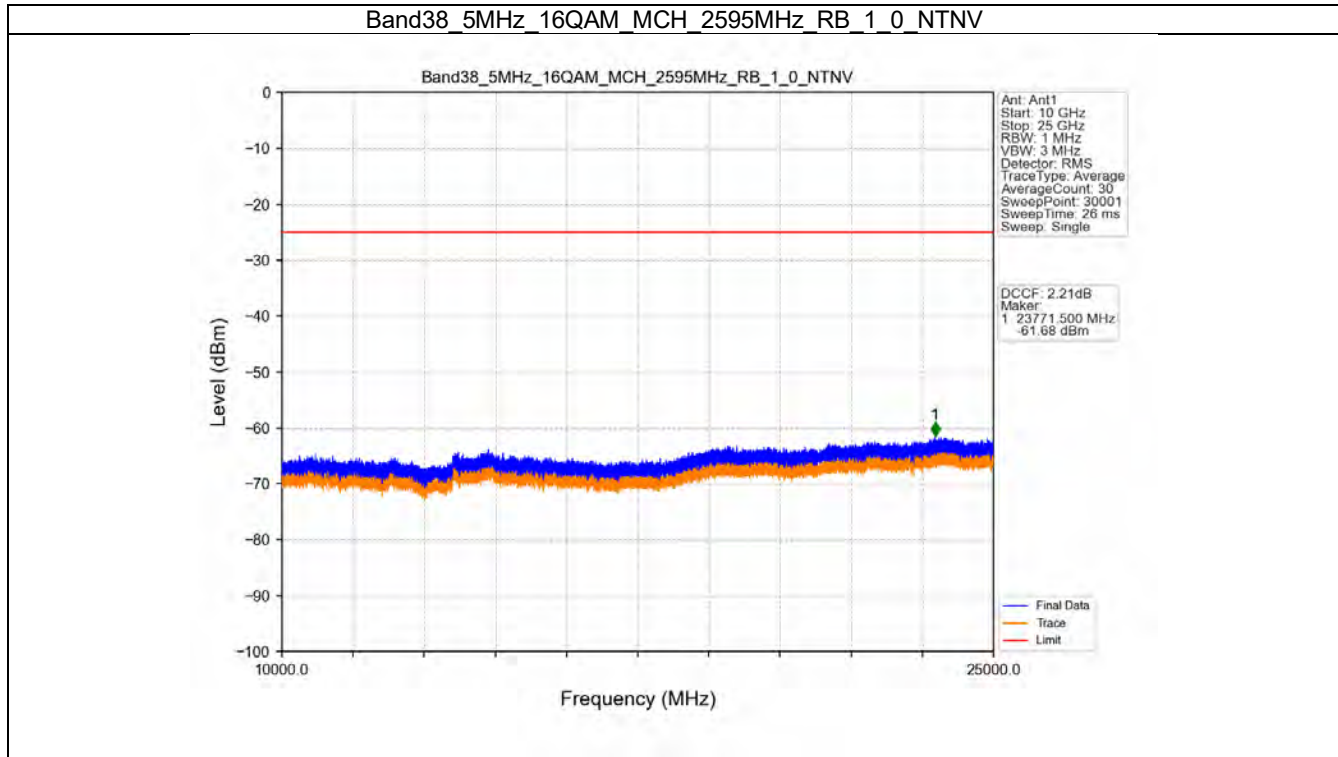


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Report No.: SZCR240200059401

Rev.: 01

Page: 156 of 298



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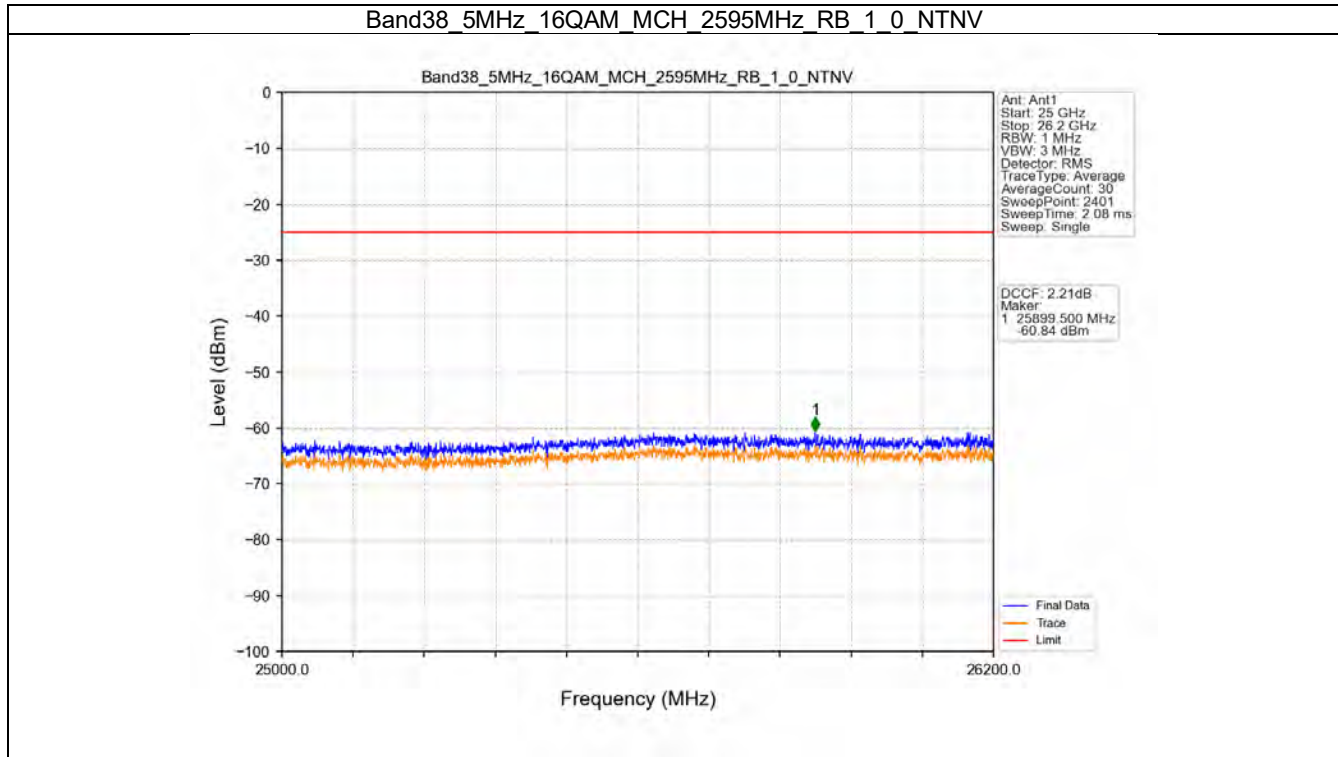


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Report No.: SZCR240200059401

Rev.: 01

Page: 157 of 298



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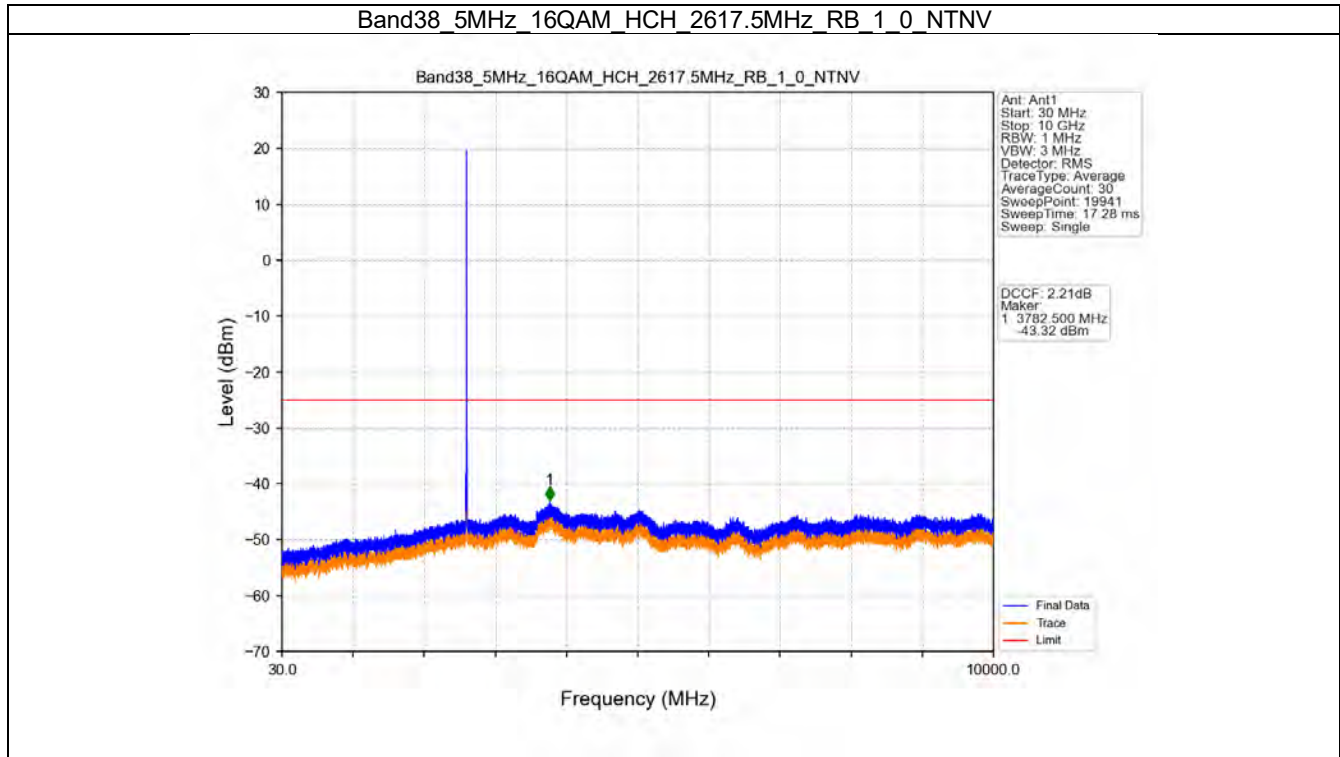


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Report No.: SZCR240200059401

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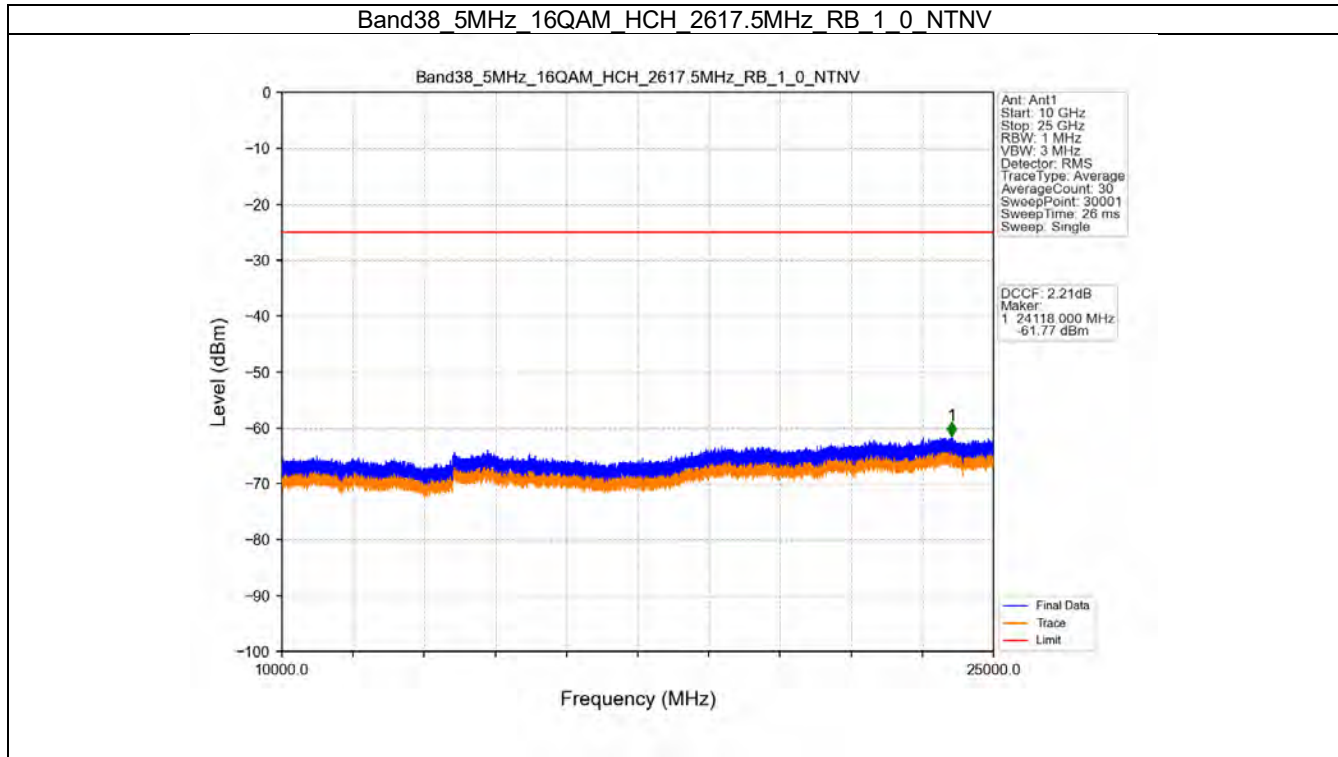


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Rev.: 01

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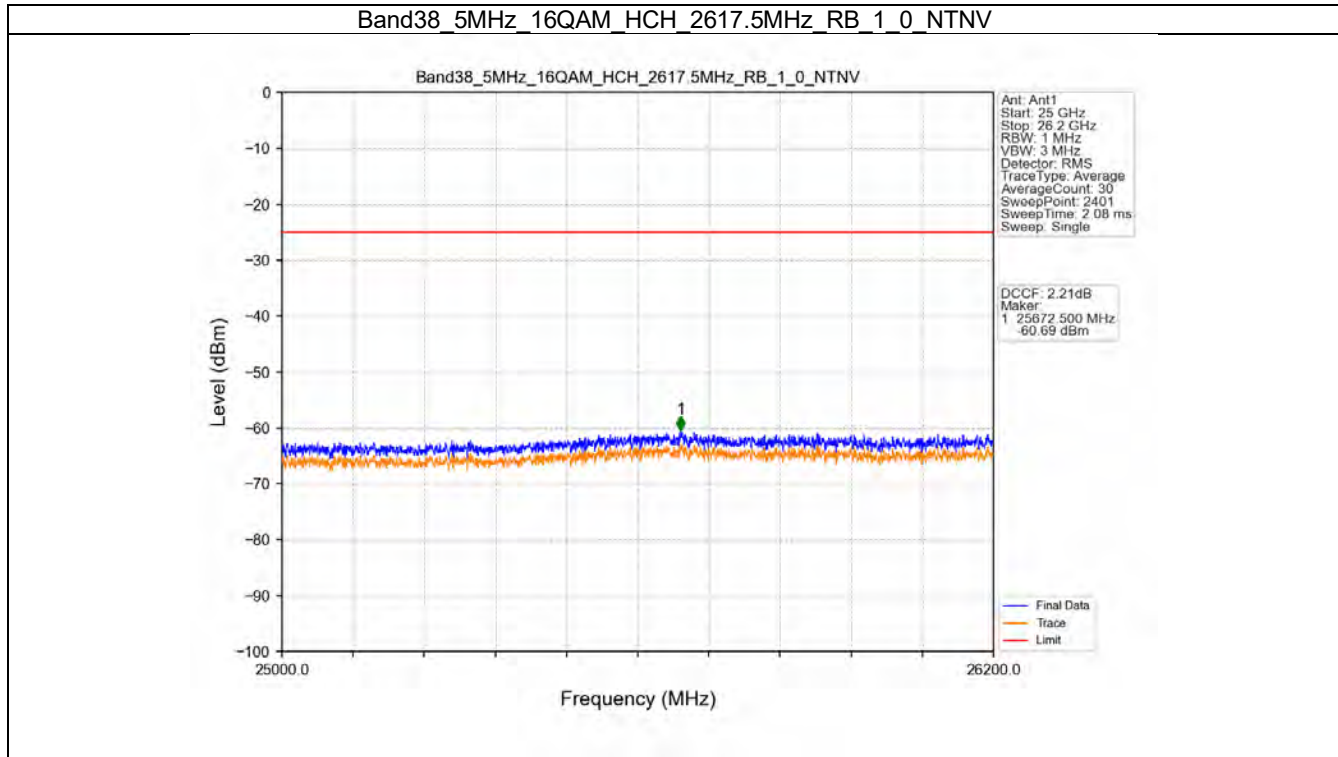


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Report No.: SZCR240200059401

Rev.: 01

Page: 160 of 298



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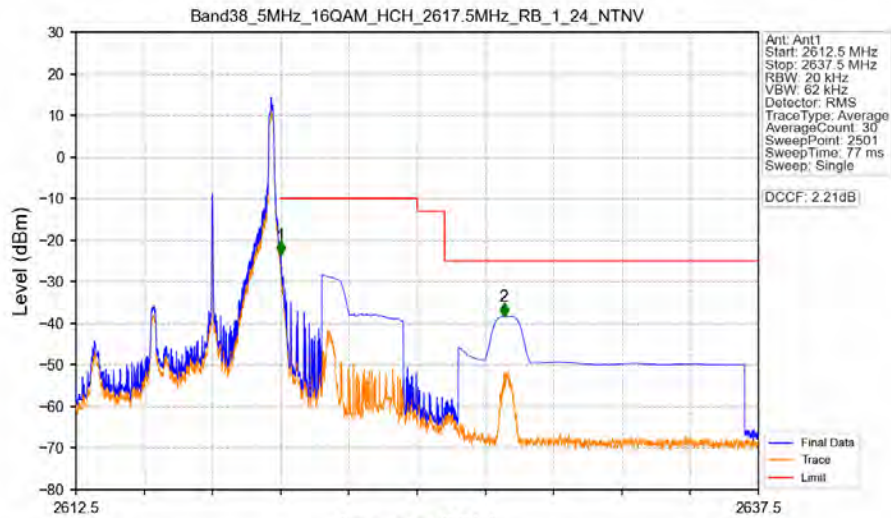
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Report No.: SZCR240200059401

Rev.: 01

Page: 161 of 298

Band38_5MHz_16QAM_HCH_2617.5MHz_RB_1_24_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2612.5	2620	0.02	/	1	2620.000	-23.56	-10	Pass
2620	2621	0.02	/	2	2628.180	-38.41	-25	Pass



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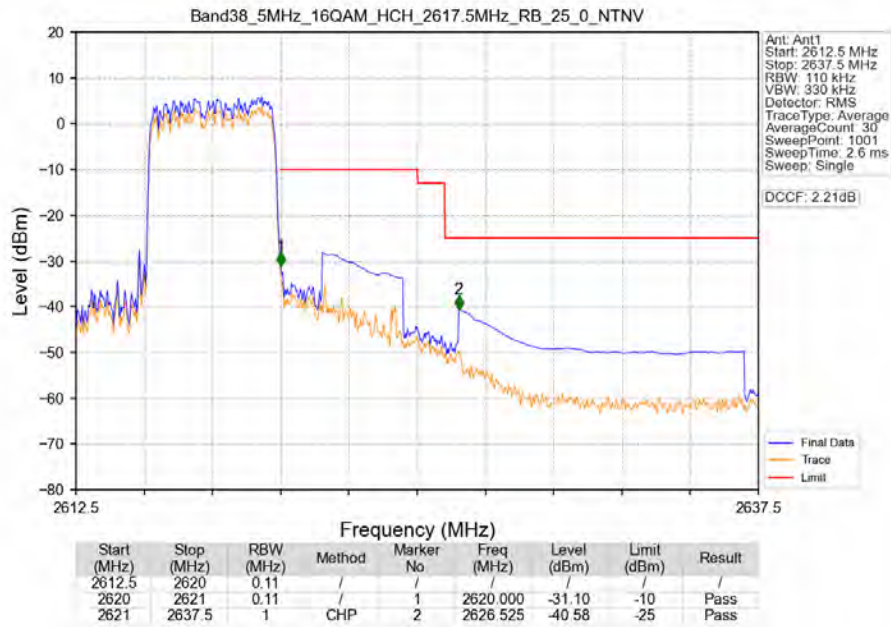
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Report No.: SZCR240200059401

Rev.: 01

Page: 162 of 298

Band38_5MHz_16QAM_HCH_2617.5MHz_RB_25_0_NTNV



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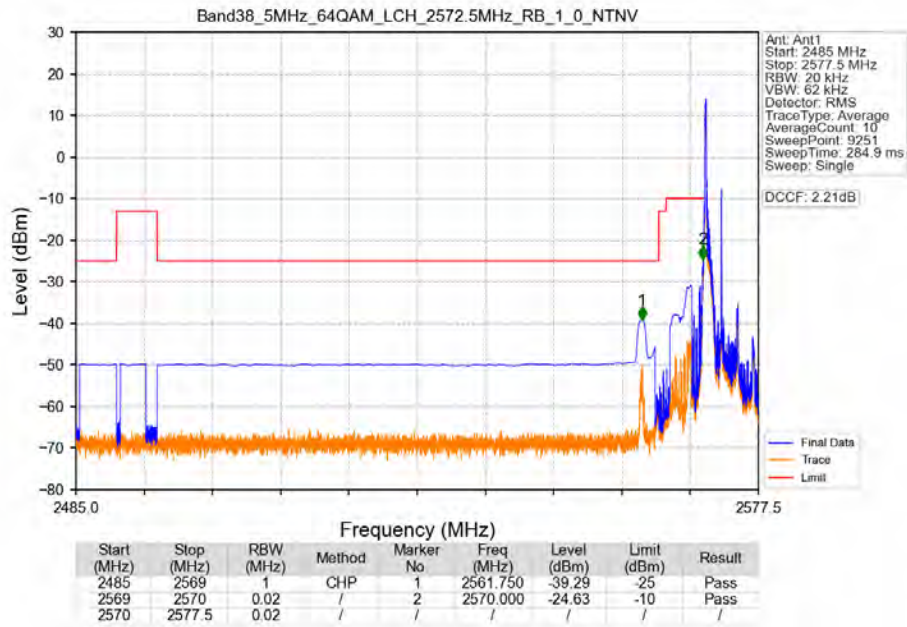
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Report No.: SZCR240200059401

Rev.: 01

Page: 163 of 298

Band38_5MHz_64QAM_LCH_2572.5MHz_RB_1_0_NTNV



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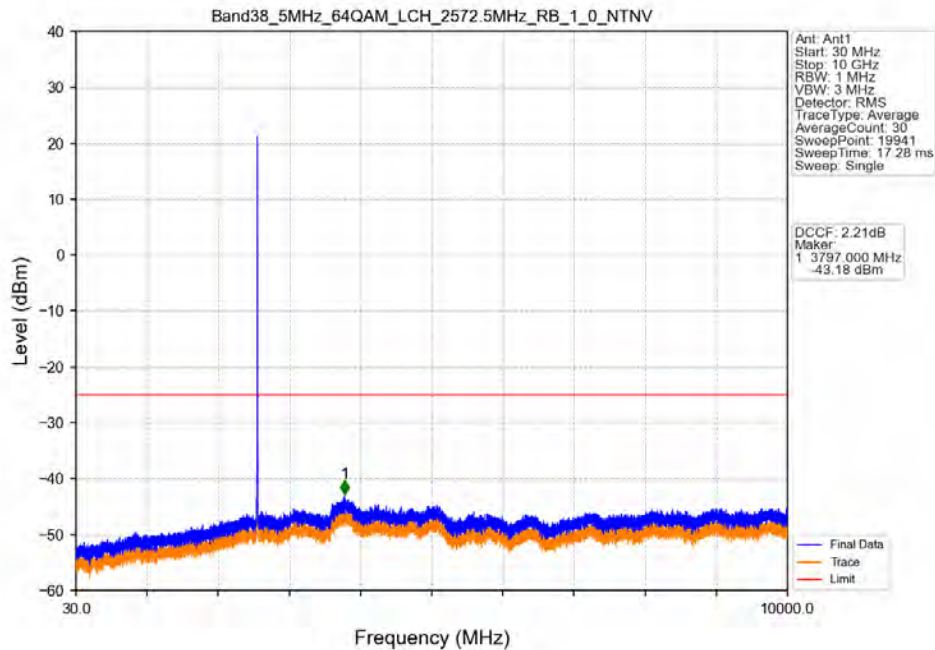
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Report No.: SZCR240200059401

Rev.: 01

Page: 164 of 298

Band38_5MHz_64QAM_LCH_2572.5MHz_RB_1_0_NTNV



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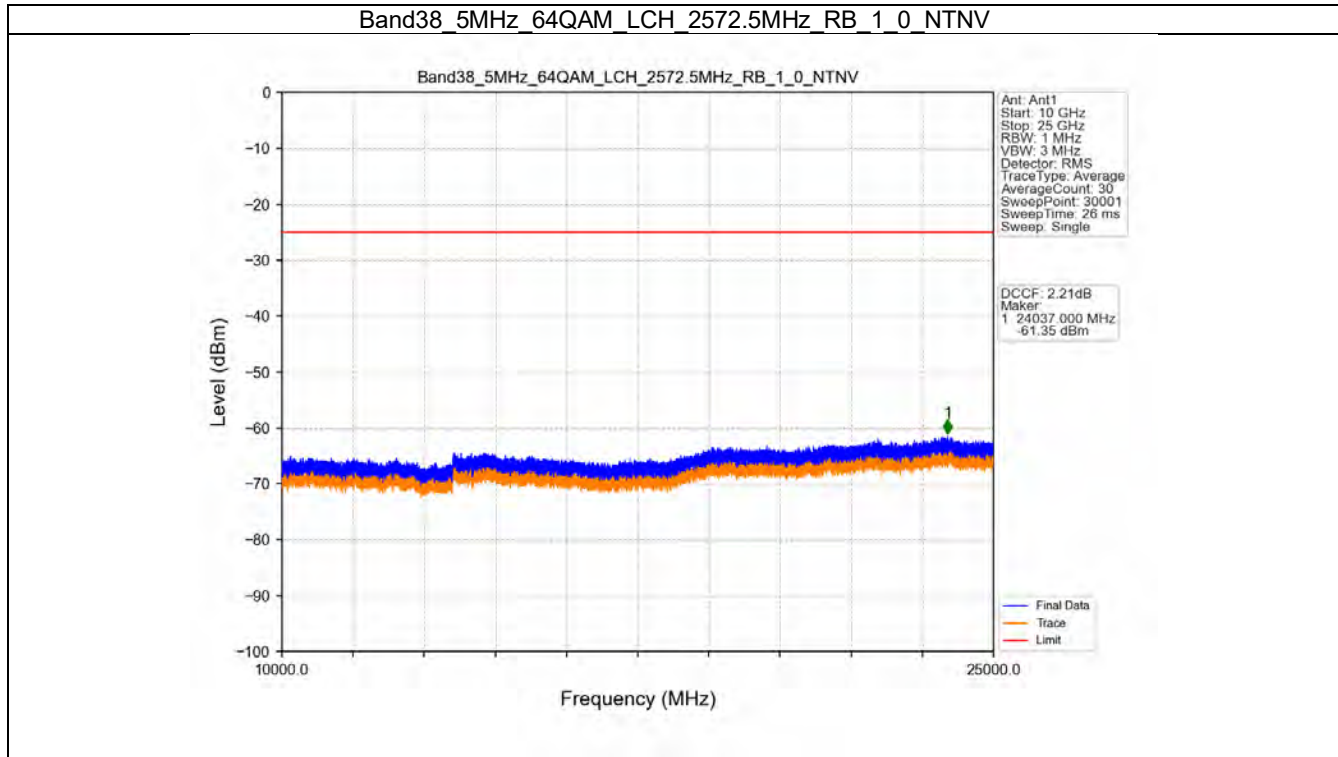


SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240200059401

Rev.: 01

Page: 165 of 298



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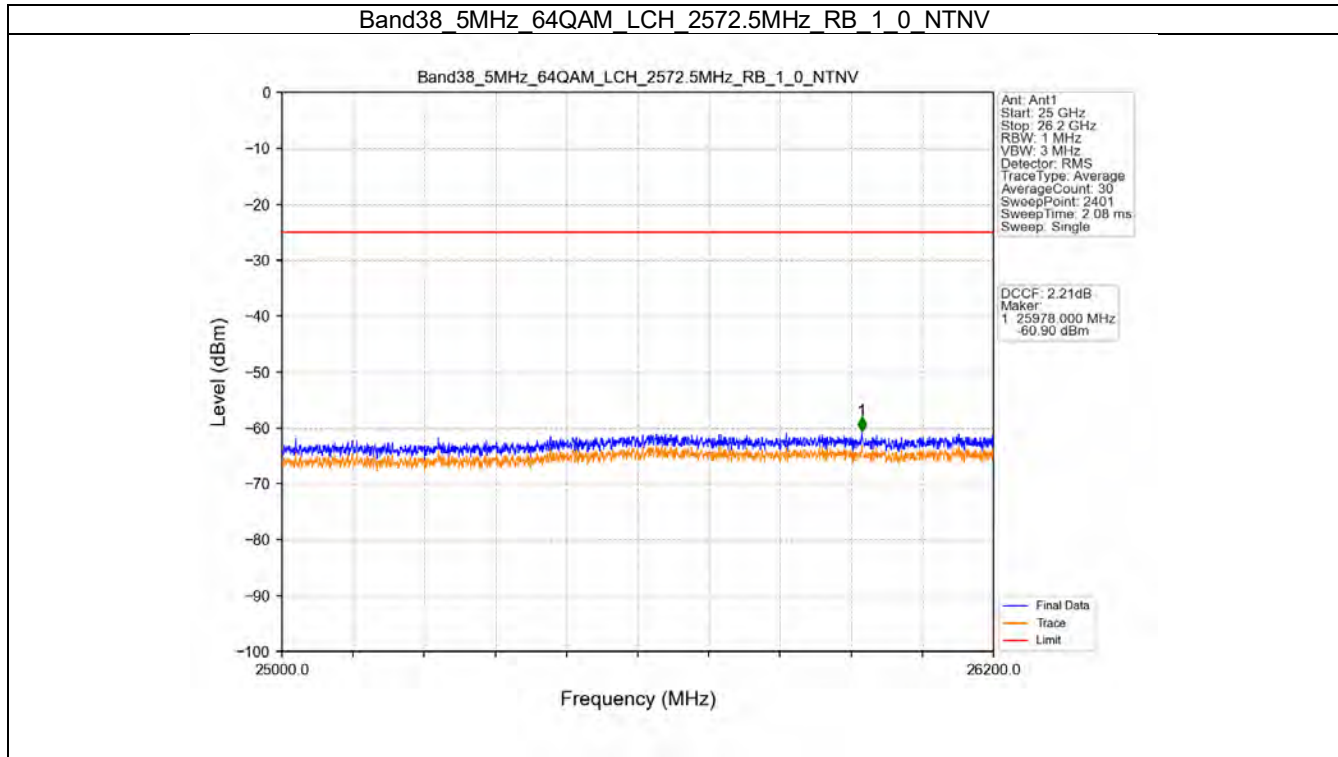


SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240200059401

Rev.: 01

Page: 166 of 298



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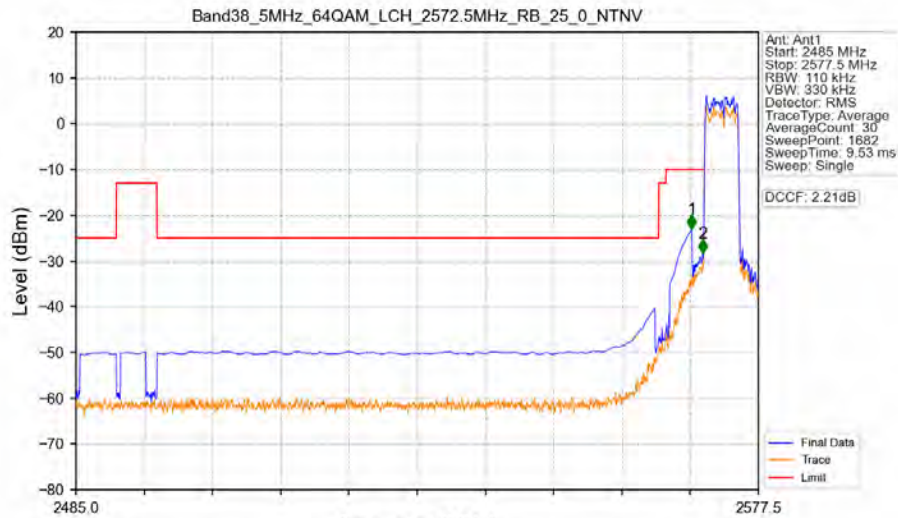
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Report No.: SZCR240200059401

Rev.: 01

Page: 167 of 298

Band38_5MHz_64QAM_LCH_2572.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2569	1	CHP	1	2568.476	-23.03	-10	Pass
2569	2570	0.11	/	2	2569.961	-28.38	-10	Pass
2570	2577.5	0.11	/	/	/	/	/	/



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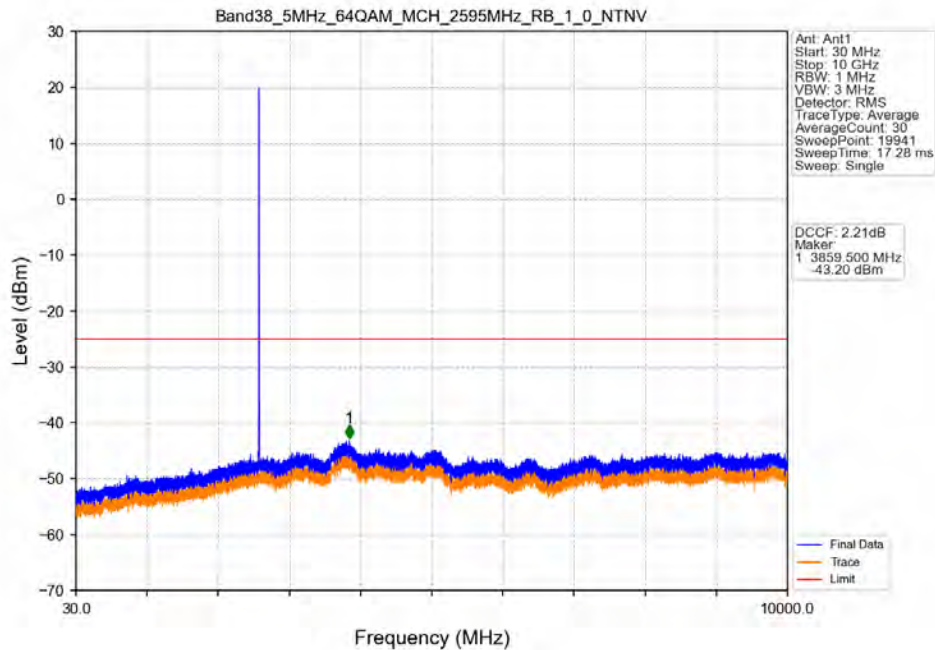
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Report No.: SZCR240200059401

Rev.: 01

Page: 168 of 298

Band38_5MHz_64QAM_MCH_2595MHz_RB_1_0_NTNV



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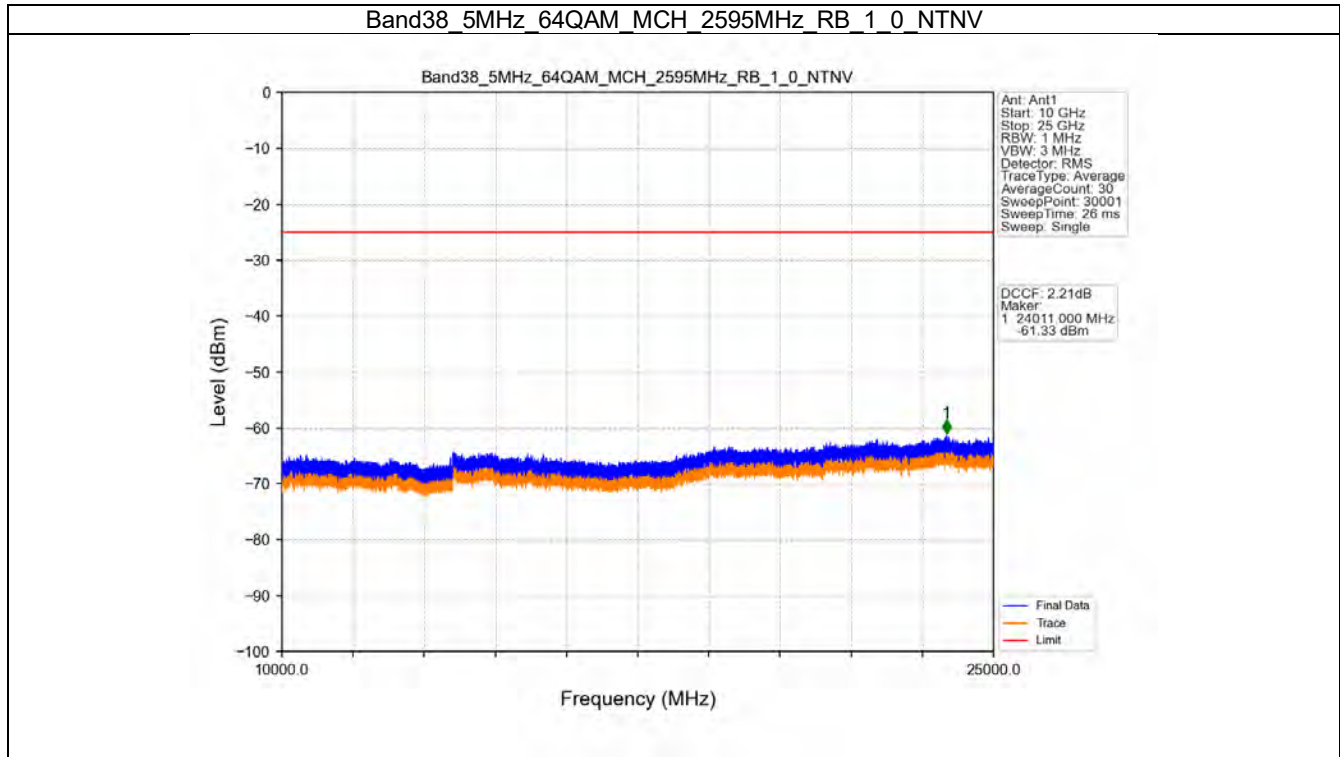


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Report No.: SZCR240200059401

Rev.: 01

Page: 169 of 298



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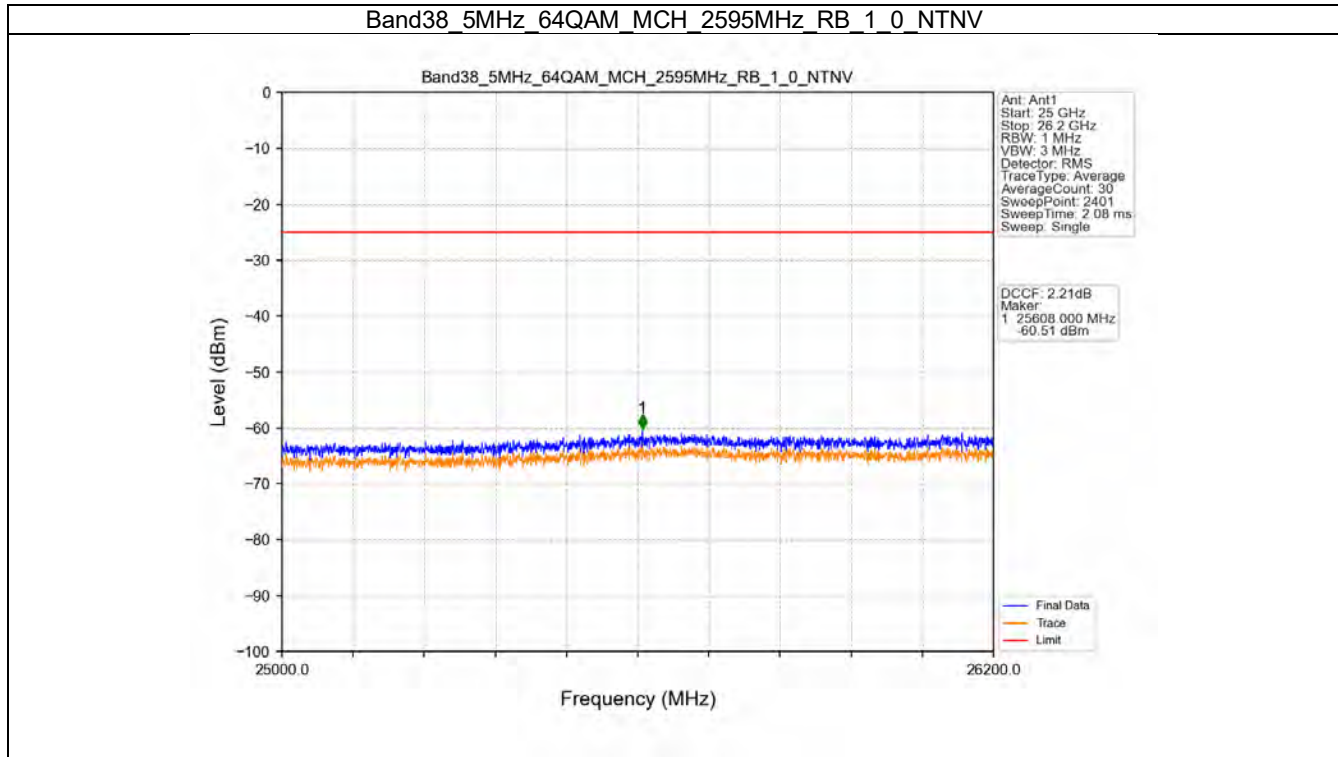


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Report No.: SZCR240200059401

Rev.: 01

Page: 170 of 298



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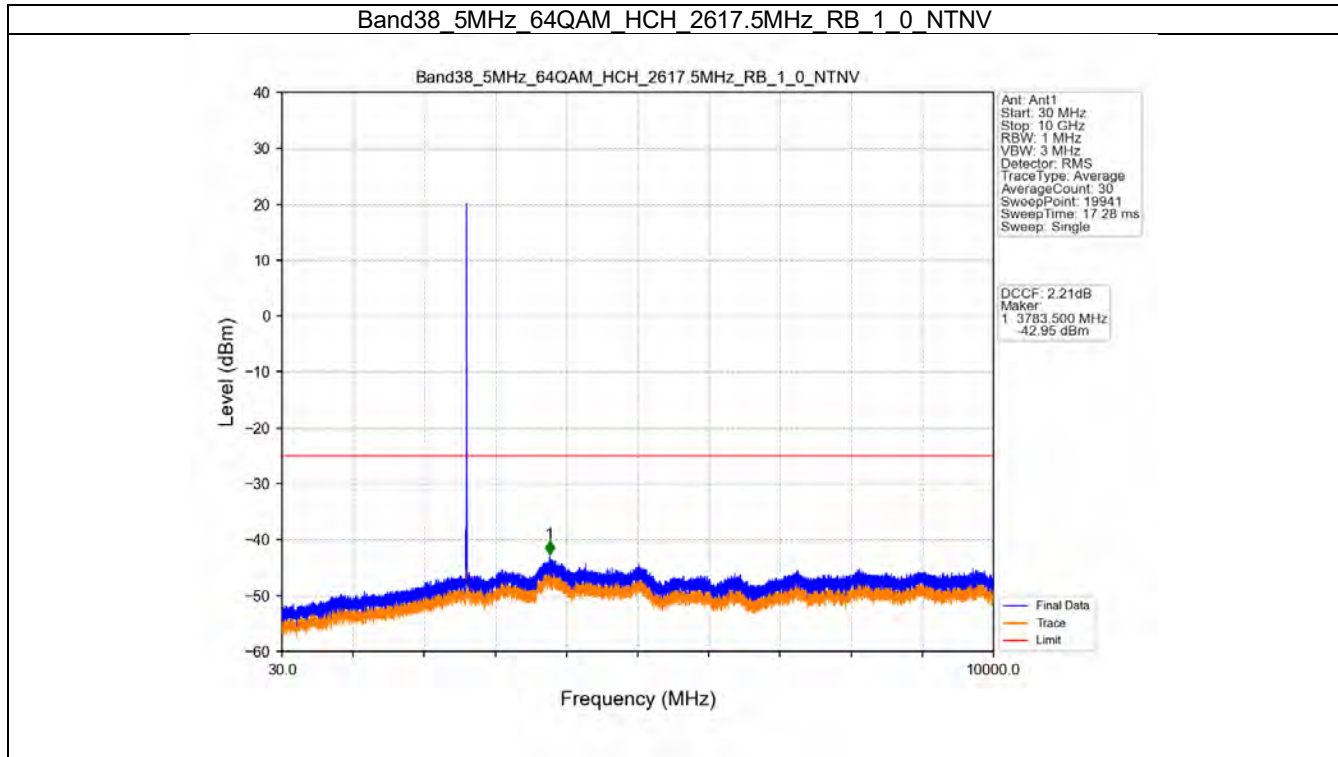


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Report No.: SZCR240200059401

Rev.: 01

Page: 171 of 298



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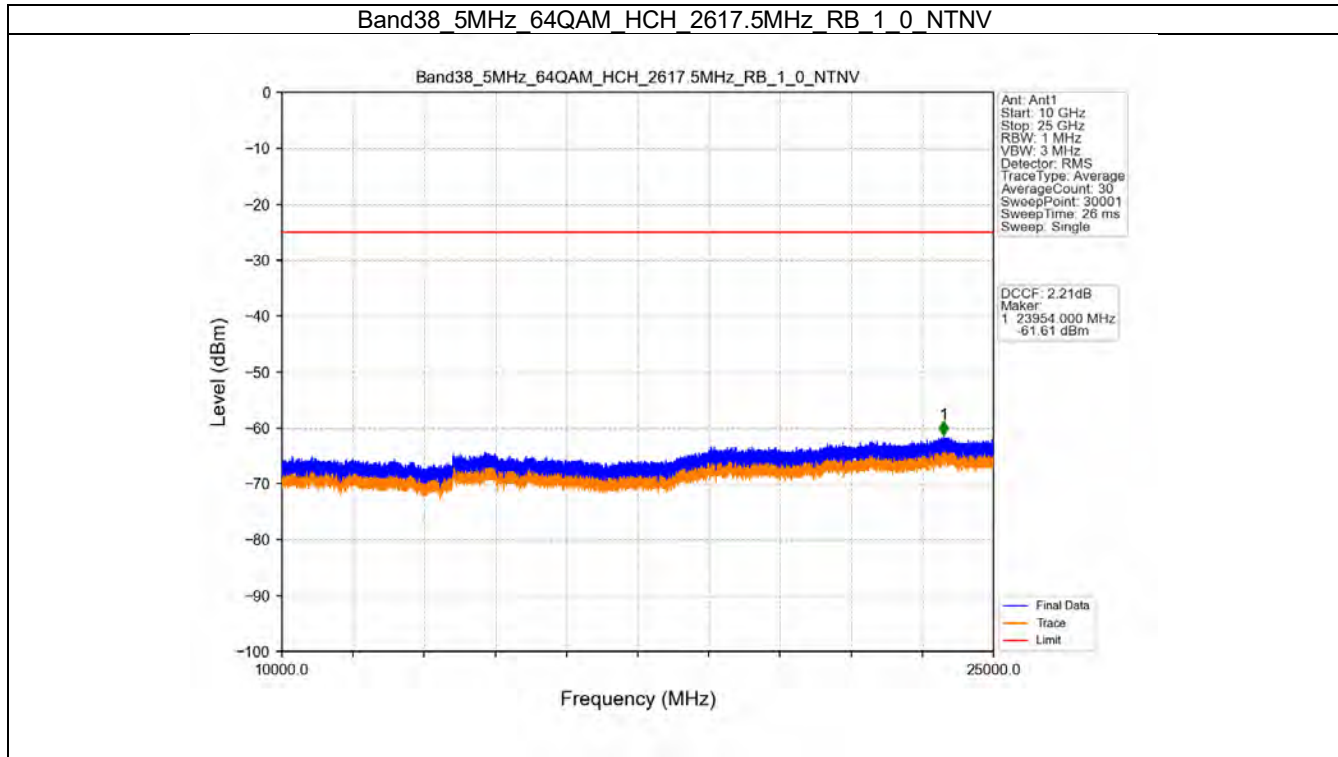


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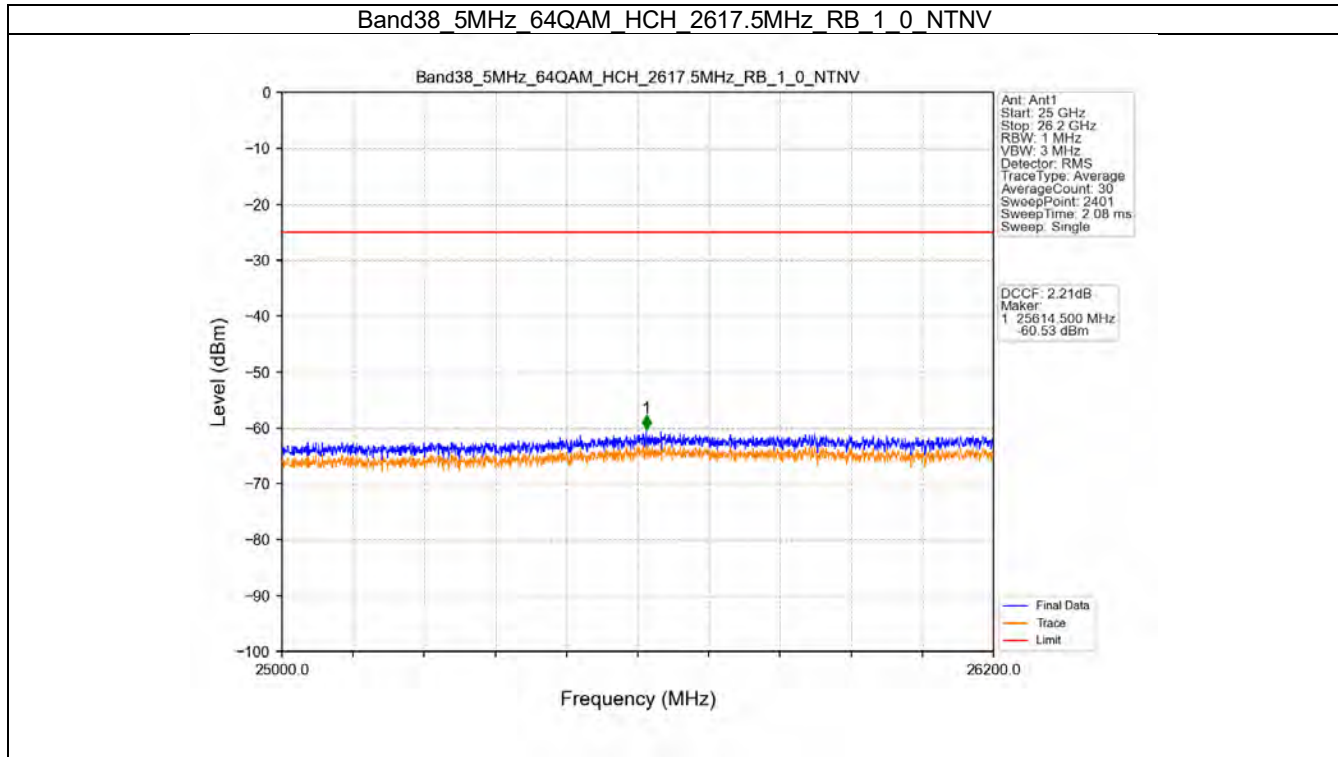


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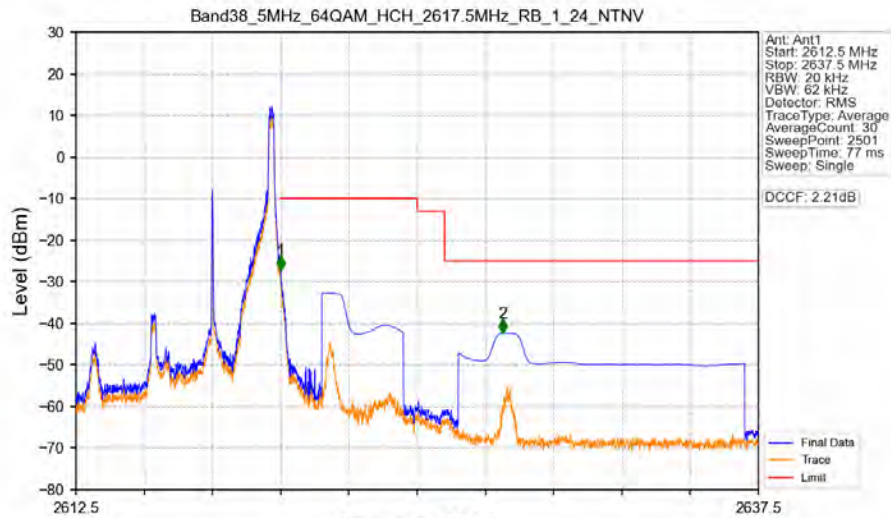
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Page: 174 of 298

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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2612.5	2620	0.02	/	1	2620.000	-27.27	-10	Pass
2620	2621	0.02	/	2	2628.140	-42.40	-25	Pass
2621	2637.5	1	CHP					



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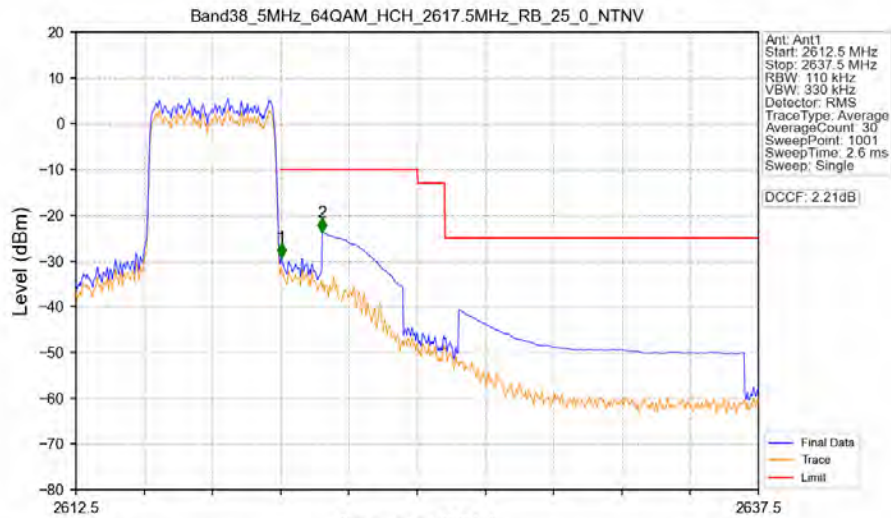
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Report No.: SZCR240200059401

Rev.: 01

Page: 175 of 298

Band38_5MHz_64QAM_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	2620.025	-29.20	-10	Pass
2621	2637.5	1	CHP	2	2621.525	-23.69	-10	Pass



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Report No.: SZCR240200059401
Rev.: 01
Page: 176 of 298

5.2 B38_10MHz

5.2.1 Test Result

Band: 38 / Bandwidth: 10MHz / NTN					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		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
		1	0	Refer To Test Graph	Pass
	2615	1	49	Refer To Test Graph	Pass
		50	0	Refer To Test Graph	Pass
16QAM	2575	1	0	Refer To Test Graph	Pass
		50	0	Refer To Test Graph	Pass
	2595	1	0	Refer To Test Graph	Pass
		1	0	Refer To Test Graph	Pass
	2615	1	49	Refer To Test Graph	Pass
		50	0	Refer To Test Graph	Pass
64QAM	2575	1	0	Refer To Test Graph	Pass
		50	0	Refer To Test Graph	Pass
	2595	1	0	Refer To Test Graph	Pass
		1	0	Refer To Test Graph	Pass
	2615	1	49	Refer To Test Graph	Pass
		50	0	Refer To Test Graph	Pass



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