



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

Report No.: SZCR240200055101

Rev.: 01

Page: 1 of 88

Appendix B.6

LTE Band 13



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

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 sgs.china@sgs.com



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Report No.: SZCR240200055101

Rev.: 01

Page: 2 of 88

1. Effective (Isotropic) Radiated Power Output Data

1.1 B13_5MHz_ERP

1.1.1 Test Result

Band: 13 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	779.5	1	0	23.20	1.83	22.88	<=34.77	Pass
			13	23.37	1.83	23.05	<=34.77	Pass
			24	23.31	1.83	22.99	<=34.77	Pass
		12	0	22.20	1.83	21.88	<=34.77	Pass
			6	22.32	1.83	22.00	<=34.77	Pass
			13	22.32	1.83	22.00	<=34.77	Pass
		25	0	22.33	1.83	22.01	<=34.77	Pass
	782	1	0	23.34	1.83	23.02	<=34.77	Pass
			13	23.44	1.83	23.12	<=34.77	Pass
			24	23.37	1.83	23.05	<=34.77	Pass
		12	0	22.38	1.83	22.06	<=34.77	Pass
			6	22.38	1.83	22.06	<=34.77	Pass
			13	22.40	1.83	22.08	<=34.77	Pass
		25	0	22.40	1.83	22.08	<=34.77	Pass
	784.5	1	0	23.36	1.83	23.04	<=34.77	Pass
			13	23.42	1.83	23.10	<=34.77	Pass
			24	23.38	1.83	23.06	<=34.77	Pass
		12	0	22.38	1.83	22.06	<=34.77	Pass
			6	22.38	1.83	22.06	<=34.77	Pass
			13	22.41	1.83	22.09	<=34.77	Pass
		25	0	22.39	1.83	22.07	<=34.77	Pass
16QAM	779.5	1	0	22.36	1.83	22.04	<=34.77	Pass
			13	22.38	1.83	22.06	<=34.77	Pass
			24	22.45	1.83	22.13	<=34.77	Pass
		12	0	21.25	1.83	20.93	<=34.77	Pass
			6	21.38	1.83	21.06	<=34.77	Pass
			13	21.38	1.83	21.06	<=34.77	Pass
		25	0	21.37	1.83	21.05	<=34.77	Pass
	782	1	0	22.48	1.83	22.16	<=34.77	Pass
			13	22.52	1.83	22.20	<=34.77	Pass
			24	22.47	1.83	22.15	<=34.77	Pass
		12	0	21.35	1.83	21.03	<=34.77	Pass
			6	21.35	1.83	21.03	<=34.77	Pass
			13	21.37	1.83	21.05	<=34.77	Pass
		25	0	21.38	1.83	21.06	<=34.77	Pass
	784.5	1	0	22.57	1.83	22.25	<=34.77	Pass
			13	22.57	1.83	22.25	<=34.77	Pass



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

Report No.: SZCR240200055101

Rev.: 01

Page: 3 of 88

64QAM		12	24	22.71	1.83	22.39	<=34.77	Pass
			0	21.45	1.83	21.13	<=34.77	Pass
			6	21.44	1.83	21.12	<=34.77	Pass
			13	21.46	1.83	21.14	<=34.77	Pass
		25	0	21.46	1.83	21.14	<=34.77	Pass
	779.5	1	0	21.35	1.83	21.03	<=34.77	Pass
			13	21.45	1.83	21.13	<=34.77	Pass
			24	21.46	1.83	21.14	<=34.77	Pass
		12	0	20.40	1.83	20.08	<=34.77	Pass
			6	20.36	1.83	20.04	<=34.77	Pass
			13	20.38	1.83	20.06	<=34.77	Pass
		25	0	20.29	1.83	19.97	<=34.77	Pass
		782	0	21.52	1.83	21.20	<=34.77	Pass
			13	21.67	1.83	21.35	<=34.77	Pass
			24	21.49	1.83	21.17	<=34.77	Pass
		12	0	20.38	1.83	20.06	<=34.77	Pass
			6	20.36	1.83	20.04	<=34.77	Pass
			13	20.37	1.83	20.05	<=34.77	Pass
		25	0	20.31	1.83	19.99	<=34.77	Pass
	784.5	1	0	21.48	1.83	21.16	<=34.77	Pass
			13	21.67	1.83	21.35	<=34.77	Pass
			24	21.62	1.83	21.30	<=34.77	Pass
		12	0	20.47	1.83	20.15	<=34.77	Pass
			6	20.47	1.83	20.15	<=34.77	Pass
			13	20.48	1.83	20.16	<=34.77	Pass
		25	0	20.53	1.83	20.21	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.2 B13_10MHz_ERP

1.2.1 Test Result

Band: 13 / Bandwidth: 10MHz / NTV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	782	1	0	23.16	1.83	22.84	<=34.77	Pass
			25	23.40	1.83	23.08	<=34.77	Pass
			49	23.32	1.83	23.00	<=34.77	Pass
		25	0	22.36	1.83	22.04	<=34.77	Pass
			13	22.39	1.83	22.07	<=34.77	Pass
			25	22.36	1.83	22.04	<=34.77	Pass
		50	0	22.51	1.83	22.19	<=34.77	Pass
16QAM	782	1	0	22.50	1.83	22.18	<=34.77	Pass
			25	22.63	1.83	22.31	<=34.77	Pass
			49	22.58	1.83	22.26	<=34.77	Pass
		25	0	21.36	1.83	21.04	<=34.77	Pass



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

Report No.: SZCR240200055101

Rev.: 01

Page: 4 of 88

			13	21.39	1.83	21.07	<=34.77	Pass
			25	21.39	1.83	21.07	<=34.77	Pass
		50	0	21.56	1.83	21.24	<=34.77	Pass
64QAM	782	1	0	21.40	1.83	21.08	<=34.77	Pass
			25	21.71	1.83	21.39	<=34.77	Pass
			49	21.61	1.83	21.29	<=34.77	Pass
		25	0	20.39	1.83	20.07	<=34.77	Pass
			13	20.41	1.83	20.09	<=34.77	Pass
			25	20.43	1.83	20.11	<=34.77	Pass
		50	0	20.56	1.83	20.24	<=34.77	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								



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

Report No.: SZCR240200055101

Rev.: 01

Page: 5 of 88

2. Frequency Stability

2.1 B13_5MHz

2.1.1 Test Result

Band: 13 / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	779.5	25	0	20	3.3	0.000	0.0000	-2.5 to 2.5	Pass
					3.8	0.486	0.0006	-2.5 to 2.5	Pass
					4.3	0.644	0.0008	-2.5 to 2.5	Pass
				-30	3.8	0.000	0.0000	-2.5 to 2.5	Pass
				-20	3.8	0.772	0.0010	-2.5 to 2.5	Pass
				-10	3.8	0.229	0.0003	-2.5 to 2.5	Pass
				0	3.8	0.744	0.0010	-2.5 to 2.5	Pass
				10	3.8	0.873	0.0011	-2.5 to 2.5	Pass
				30	3.8	1.574	0.0020	-2.5 to 2.5	Pass
				40	3.8	3.090	0.0040	-2.5 to 2.5	Pass
				50	3.8	2.632	0.0034	-2.5 to 2.5	Pass
	782	25	0	20	3.3	-0.386	-0.0005	-2.5 to 2.5	Pass
					3.8	-0.172	-0.0002	-2.5 to 2.5	Pass
					4.3	-0.544	-0.0007	-2.5 to 2.5	Pass
				-30	3.8	0.887	0.0011	-2.5 to 2.5	Pass
				-20	3.8	0.000	0.0000	-2.5 to 2.5	Pass
				-10	3.8	1.230	0.0016	-2.5 to 2.5	Pass
				0	3.8	1.345	0.0017	-2.5 to 2.5	Pass
				10	3.8	0.472	0.0006	-2.5 to 2.5	Pass
				30	3.8	0.858	0.0011	-2.5 to 2.5	Pass
				40	3.8	0.558	0.0007	-2.5 to 2.5	Pass
				50	3.8	1.616	0.0021	-2.5 to 2.5	Pass
	784.5	25	0	20	3.3	1.917	0.0024	-2.5 to 2.5	Pass
					3.8	1.173	0.0015	-2.5 to 2.5	Pass
					4.3	1.116	0.0014	-2.5 to 2.5	Pass
				-30	3.8	0.200	0.0003	-2.5 to 2.5	Pass
				-20	3.8	0.243	0.0003	-2.5 to 2.5	Pass
				-10	3.8	0.629	0.0008	-2.5 to 2.5	Pass
				0	3.8	0.272	0.0003	-2.5 to 2.5	Pass
				10	3.8	-0.257	-0.0003	-2.5 to 2.5	Pass
				30	3.8	-0.029	0.0000	-2.5 to 2.5	Pass
				40	3.8	0.443	0.0006	-2.5 to 2.5	Pass
				50	3.8	-0.772	-0.0010	-2.5 to 2.5	Pass
16QAM	779.5	25	0	20	3.3	1.917	0.0025	-2.5 to 2.5	Pass
					3.8	1.988	0.0026	-2.5 to 2.5	Pass
					4.3	0.701	0.0009	-2.5 to 2.5	Pass
				-30	3.8	0.458	0.0006	-2.5 to 2.5	Pass



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Report No.: SZCR240200055101

Rev.: 01

Page: 6 of 88

64QAM	782	25	0	-20	3.8	1.059	0.0014	-2.5 to 2.5	Pass
				-10	3.8	0.429	0.0006	-2.5 to 2.5	Pass
				0	3.8	-0.029	0.0000	-2.5 to 2.5	Pass
				10	3.8	0.486	0.0006	-2.5 to 2.5	Pass
				30	3.8	-0.114	-0.0001	-2.5 to 2.5	Pass
				40	3.8	-0.029	0.0000	-2.5 to 2.5	Pass
				50	3.8	0.000	0.0000	-2.5 to 2.5	Pass
	782	25	0	20	3.3	1.688	0.0022	-2.5 to 2.5	Pass
					3.8	1.888	0.0024	-2.5 to 2.5	Pass
					4.3	2.003	0.0026	-2.5 to 2.5	Pass
				-30	3.8	2.432	0.0031	-2.5 to 2.5	Pass
				-20	3.8	2.260	0.0029	-2.5 to 2.5	Pass
				-10	3.8	1.974	0.0025	-2.5 to 2.5	Pass
				0	3.8	1.545	0.0020	-2.5 to 2.5	Pass
				10	3.8	0.916	0.0012	-2.5 to 2.5	Pass
				30	3.8	0.587	0.0008	-2.5 to 2.5	Pass
				40	3.8	-0.043	-0.0001	-2.5 to 2.5	Pass
				50	3.8	0.615	0.0008	-2.5 to 2.5	Pass
	784.5	25	0	20	3.3	-0.515	-0.0007	-2.5 to 2.5	Pass
					3.8	-0.072	-0.0001	-2.5 to 2.5	Pass
					4.3	0.415	0.0005	-2.5 to 2.5	Pass
				-30	3.8	0.057	0.0001	-2.5 to 2.5	Pass
				-20	3.8	-0.043	-0.0001	-2.5 to 2.5	Pass
				-10	3.8	0.072	0.0001	-2.5 to 2.5	Pass
				0	3.8	1.044	0.0013	-2.5 to 2.5	Pass
				10	3.8	0.186	0.0002	-2.5 to 2.5	Pass
				30	3.8	0.672	0.0009	-2.5 to 2.5	Pass
				40	3.8	1.245	0.0016	-2.5 to 2.5	Pass
				50	3.8	1.330	0.0017	-2.5 to 2.5	Pass
	779.5	25	0	20	3.3	-0.315	-0.0004	-2.5 to 2.5	Pass
					3.8	1.245	0.0016	-2.5 to 2.5	Pass
					4.3	-0.072	-0.0001	-2.5 to 2.5	Pass
				-30	3.8	0.658	0.0008	-2.5 to 2.5	Pass
				-20	3.8	0.343	0.0004	-2.5 to 2.5	Pass
				-10	3.8	0.057	0.0001	-2.5 to 2.5	Pass
				0	3.8	0.701	0.0009	-2.5 to 2.5	Pass
				10	3.8	-0.801	-0.0010	-2.5 to 2.5	Pass
				30	3.8	0.944	0.0012	-2.5 to 2.5	Pass
				40	3.8	1.702	0.0022	-2.5 to 2.5	Pass
				50	3.8	1.044	0.0013	-2.5 to 2.5	Pass
	782	25	0	20	3.3	0.358	0.0005	-2.5 to 2.5	Pass
					3.8	0.315	0.0004	-2.5 to 2.5	Pass
					4.3	0.615	0.0008	-2.5 to 2.5	Pass
				-30	3.8	0.815	0.0010	-2.5 to 2.5	Pass
				-20	3.8	1.030	0.0013	-2.5 to 2.5	Pass
				-10	3.8	0.229	0.0003	-2.5 to 2.5	Pass
				0	3.8	-0.587	-0.0008	-2.5 to 2.5	Pass
				10	3.8	0.730	0.0009	-2.5 to 2.5	Pass



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

Report No.: SZCR240200055101

Rev.: 01

Page: 7 of 88

	784.5	25	0	30	3.8	0.443	0.0006	-2.5 to 2.5	Pass
				40	3.8	0.429	0.0005	-2.5 to 2.5	Pass
				50	3.8	0.172	0.0002	-2.5 to 2.5	Pass
				20	3.3	1.388	0.0018	-2.5 to 2.5	Pass
					3.8	2.546	0.0032	-2.5 to 2.5	Pass
					4.3	2.031	0.0026	-2.5 to 2.5	Pass
				-30	3.8	2.418	0.0031	-2.5 to 2.5	Pass
				-20	3.8	1.216	0.0016	-2.5 to 2.5	Pass
				-10	3.8	0.572	0.0007	-2.5 to 2.5	Pass
				0	3.8	1.130	0.0014	-2.5 to 2.5	Pass
				10	3.8	-0.100	-0.0001	-2.5 to 2.5	Pass
				30	3.8	0.443	0.0006	-2.5 to 2.5	Pass
				40	3.8	0.343	0.0004	-2.5 to 2.5	Pass
				50	3.8	0.801	0.0010	-2.5 to 2.5	Pass

2.2 B13_10MHz

2.2.1 Test Result

Band: 13 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	782	50	0	20	3.3	0.215	0.0003	-2.5 to 2.5	Pass
					3.8	0.286	0.0004	-2.5 to 2.5	Pass
					4.3	-0.172	-0.0002	-2.5 to 2.5	Pass
				-30	3.8	-0.901	-0.0012	-2.5 to 2.5	Pass
				-20	3.8	0.243	0.0003	-2.5 to 2.5	Pass
				-10	3.8	-0.572	-0.0007	-2.5 to 2.5	Pass
				0	3.8	0.029	0.0000	-2.5 to 2.5	Pass
				10	3.8	-0.844	-0.0011	-2.5 to 2.5	Pass
				30	3.8	-0.672	-0.0009	-2.5 to 2.5	Pass
				40	3.8	-0.172	-0.0002	-2.5 to 2.5	Pass
16QAM	782	50	0	20	3.3	-0.415	-0.0005	-2.5 to 2.5	Pass
					3.8	-0.129	-0.0002	-2.5 to 2.5	Pass
					4.3	-0.615	-0.0008	-2.5 to 2.5	Pass
				-30	3.8	-0.157	-0.0002	-2.5 to 2.5	Pass
				-20	3.8	-0.830	-0.0011	-2.5 to 2.5	Pass
				-10	3.8	-0.730	-0.0009	-2.5 to 2.5	Pass
				0	3.8	0.129	0.0002	-2.5 to 2.5	Pass
				10	3.8	0.043	0.0001	-2.5 to 2.5	Pass
				30	3.8	0.072	0.0001	-2.5 to 2.5	Pass
				40	3.8	-0.472	-0.0006	-2.5 to 2.5	Pass
64QAM	782	50	0	20	3.3	-0.587	-0.0008	-2.5 to 2.5	Pass
					3.8	-0.572	-0.0007	-2.5 to 2.5	Pass



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Report No.: SZCR240200055101

Rev.: 01

Page: 8 of 88

					4.3	-1.316	-0.0017	-2.5 to 2.5	Pass
				-30	3.8	-1.531	-0.0020	-2.5 to 2.5	Pass
				-20	3.8	-1.302	-0.0017	-2.5 to 2.5	Pass
				-10	3.8	-1.588	-0.0020	-2.5 to 2.5	Pass
				0	3.8	-1.488	-0.0019	-2.5 to 2.5	Pass
				10	3.8	-1.502	-0.0019	-2.5 to 2.5	Pass
				30	3.8	-0.143	-0.0002	-2.5 to 2.5	Pass
				40	3.8	-0.157	-0.0002	-2.5 to 2.5	Pass
				50	3.8	-2.189	-0.0028	-2.5 to 2.5	Pass



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Report No.: SZCR240200055101

Rev.: 01

Page: 9 of 88

3. 99% & 26dB Bandwidth

3.1 Band13_OBW

3.1.1 Test Result

Band: 13 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	779.5	25	0	4.554	/	Pass
		782	25	0	4.584	/	Pass
		784.5	25	0	4.548	/	Pass
	16QAM	779.5	25	0	4.529	/	Pass
		782	25	0	4.582	/	Pass
		784.5	25	0	4.592	/	Pass
	64QAM	779.5	25	0	4.531	/	Pass
		782	25	0	4.568	/	Pass
		784.5	25	0	4.574	/	Pass
10	QPSK	782	50	0	9.043	/	Pass
	16QAM	782	50	0	9.033	/	Pass
	64QAM	782	50	0	9.048	/	Pass



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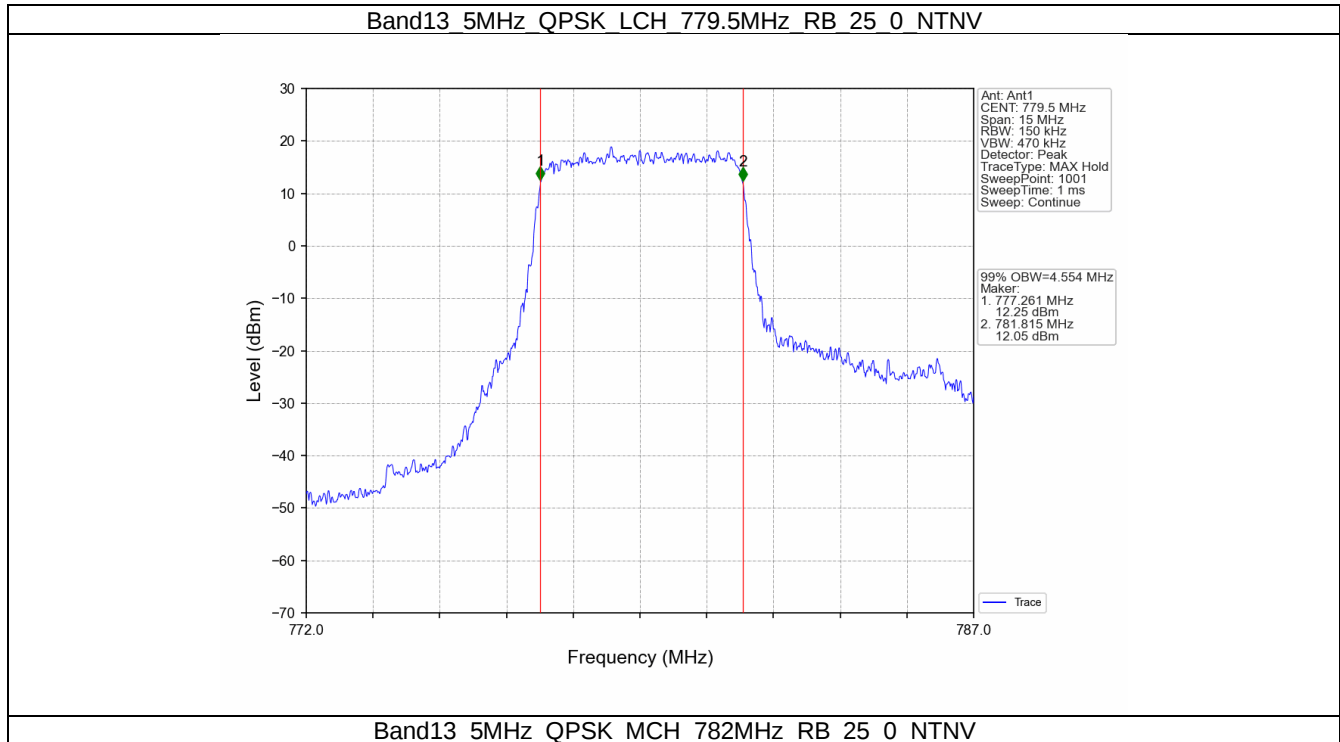
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Rev.: 01

Page: 10 of 88

3.1.2 Test Graph



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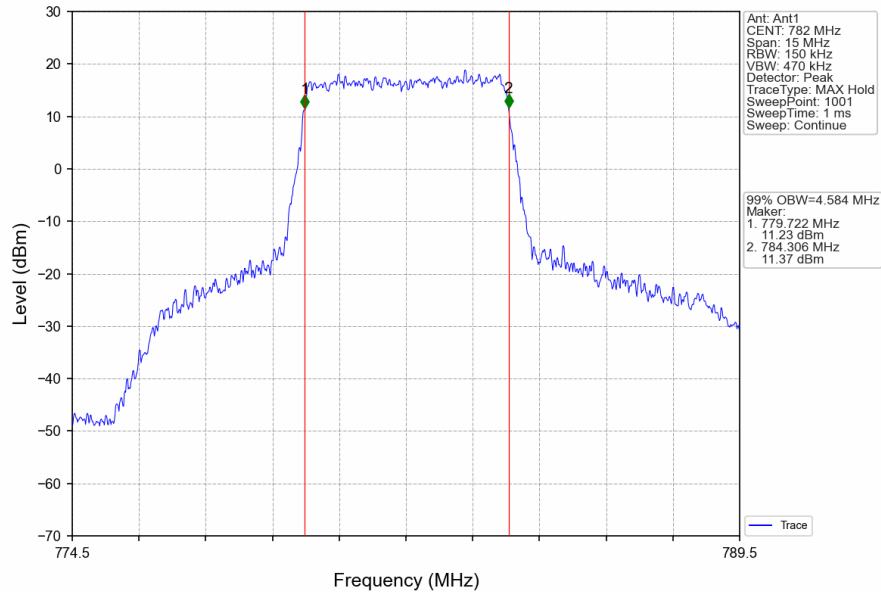


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Report No.: SZCR240200055101

Rev.: 01

Page: 11 of 88



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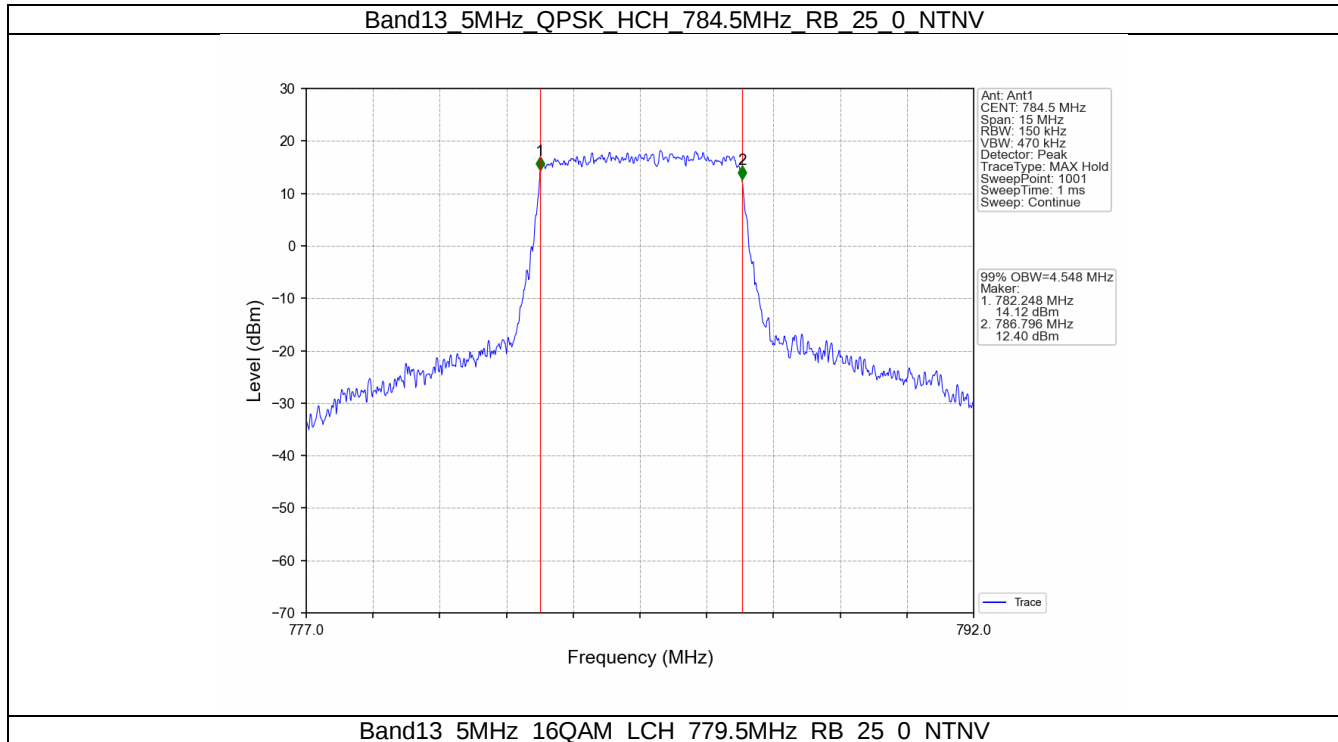


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Report No.: SZCR240200055101

Rev.: 01

Page: 12 of 88



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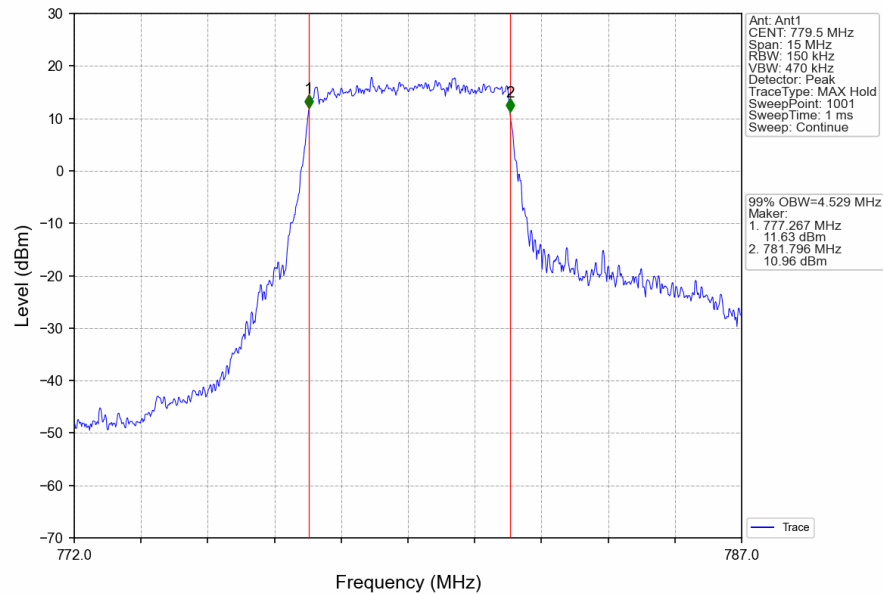


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Report No.: SZCR240200055101

Rev.: 01

Page: 13 of 88



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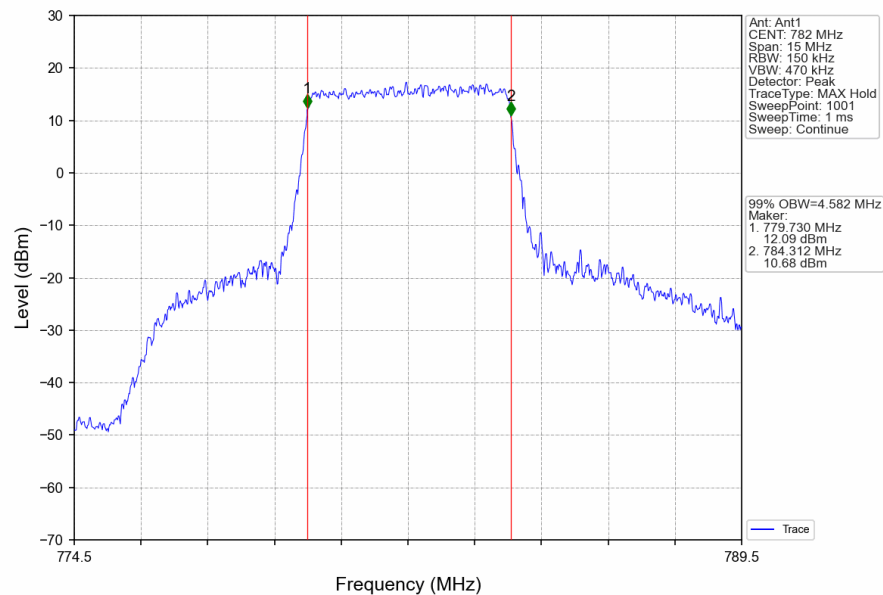
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Report No.: SZCR240200055101

Rev.: 01

Page: 14 of 88

Band13_5MHz_16QAM_MCH_782MHz_RB_25_0_NTNV



Band13_5MHz_16QAM_HCH_784.5MHz_RB_25_0_NTNV



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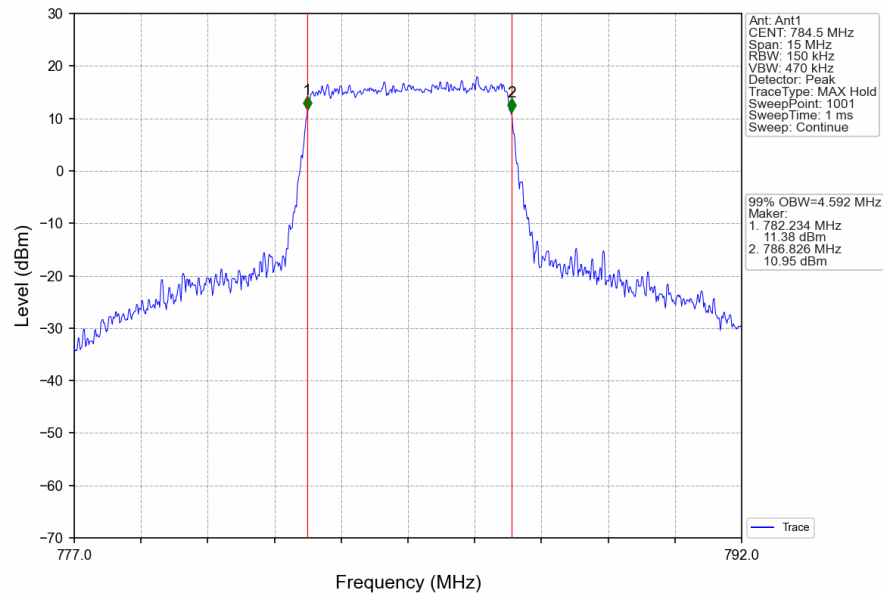


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Rev.: 01

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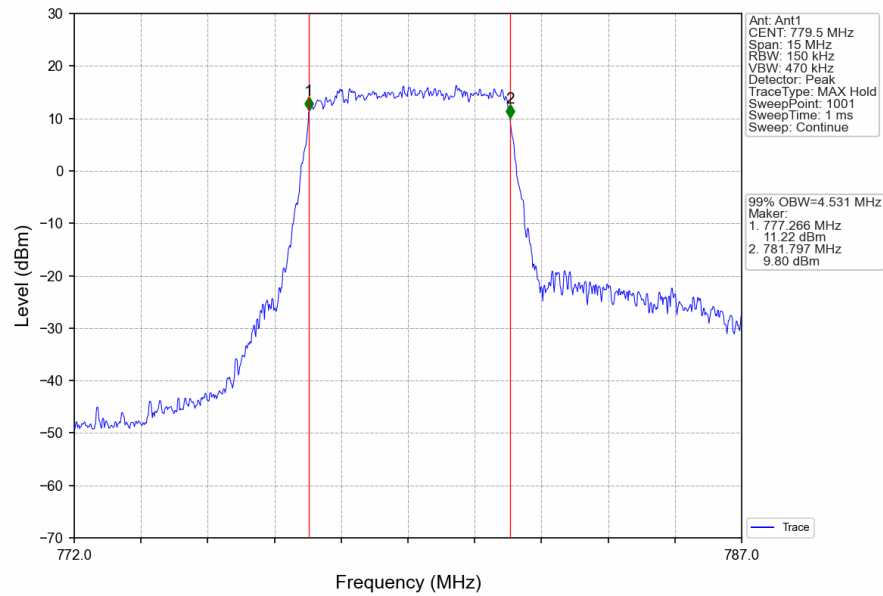
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Report No.: SZCR240200055101

Rev.: 01

Page: 16 of 88

Band13_5MHz_64QAM_LCH_779.5MHz_RB_25_0_NTNV



Band13_5MHz_64QAM_MCH_782MHz_RB_25_0_NTNV



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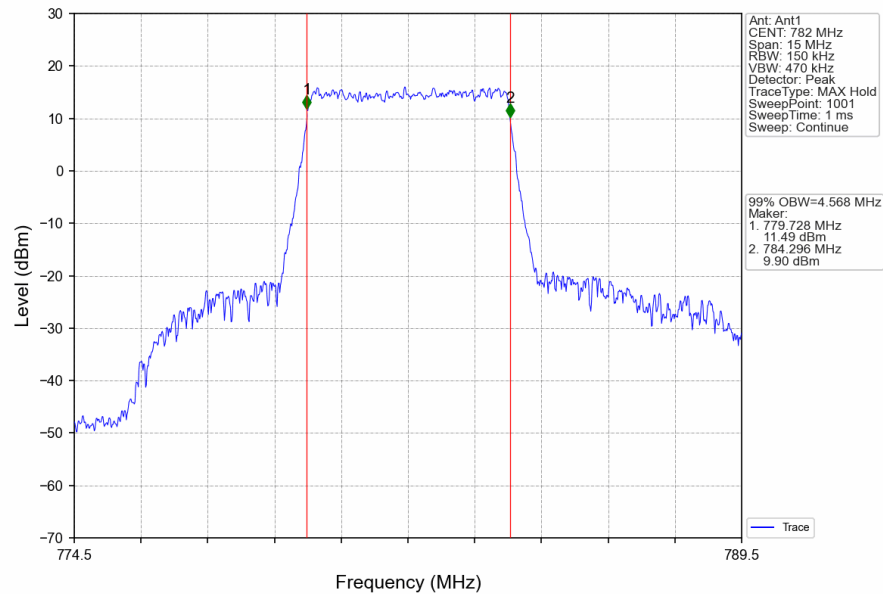


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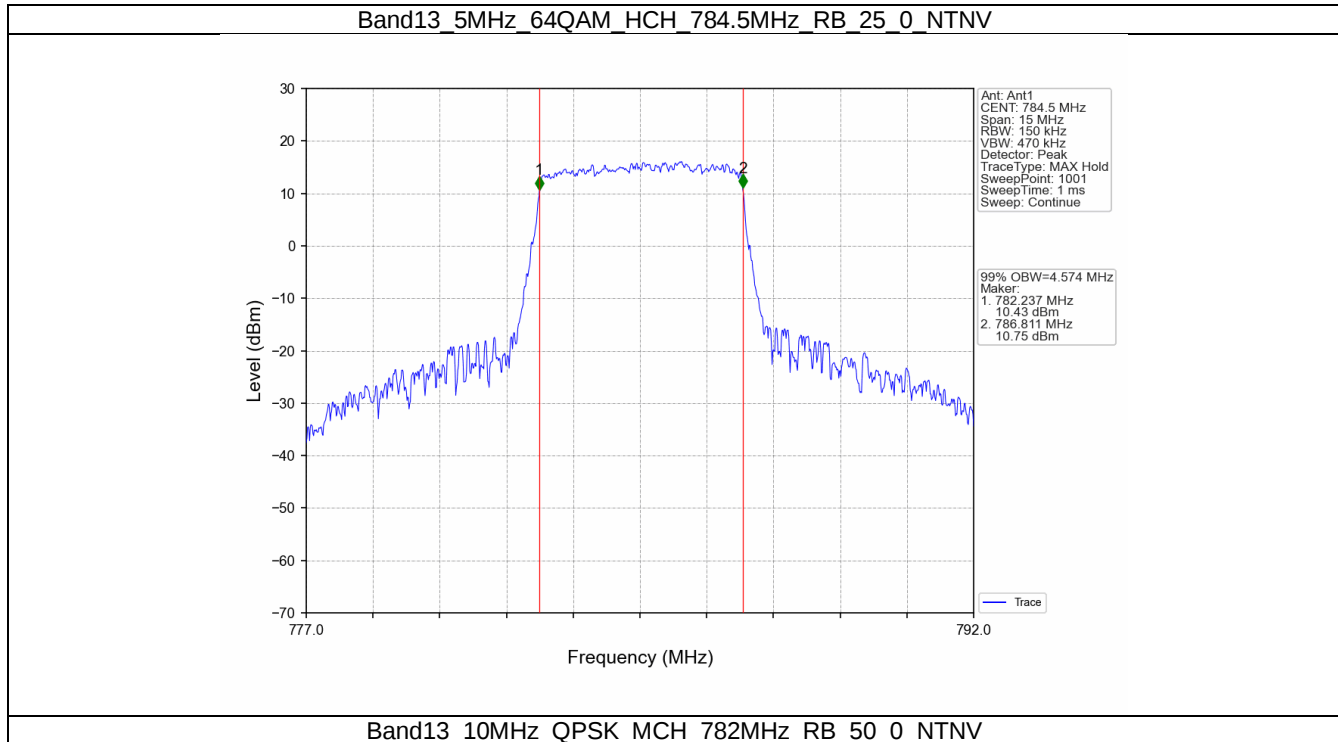


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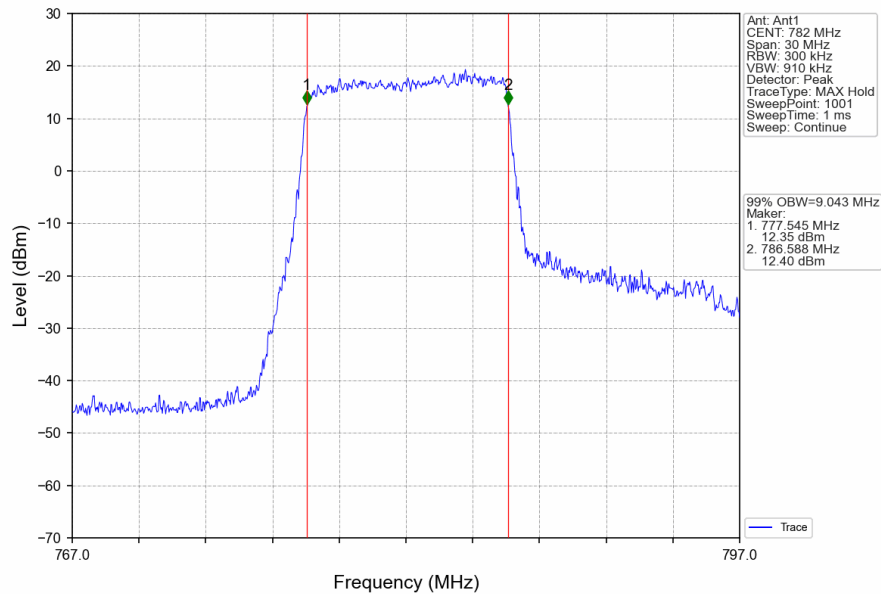


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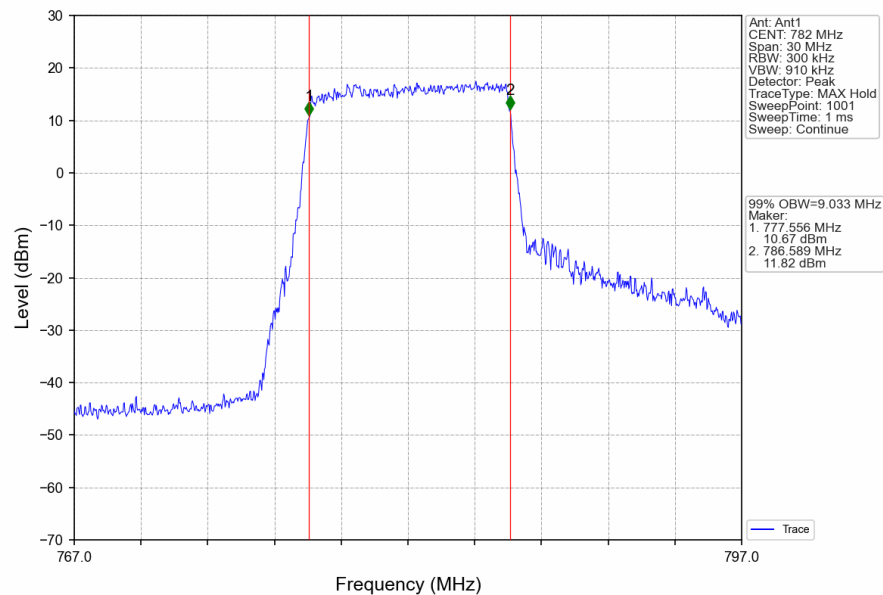
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Report No.: SZCR240200055101

Rev.: 01

Page: 20 of 88

Band13_10MHz_16QAM_MCH_782MHz_RB_50_0_NTNV



Band13_10MHz_64QAM_MCH_782MHz_RB_50_0_NTNV



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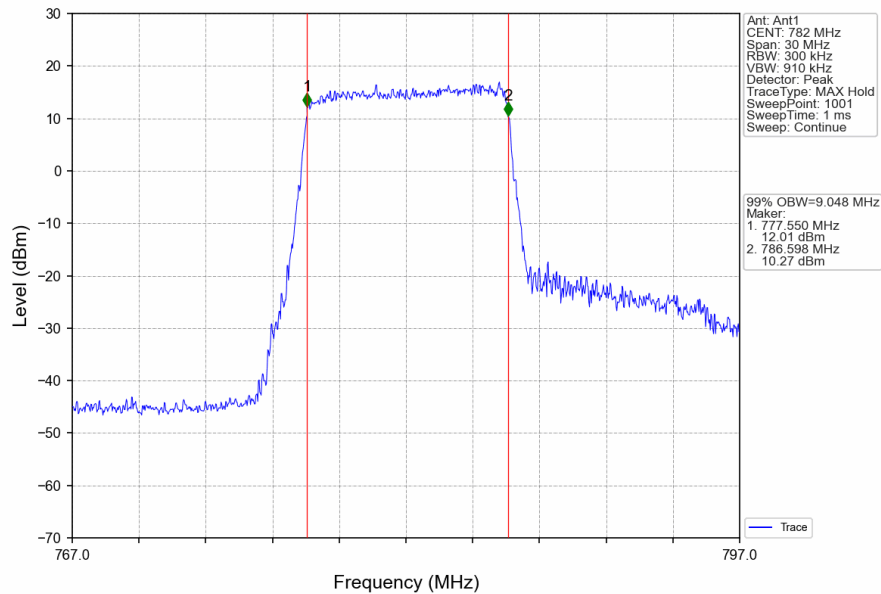


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Report No.: SZCR240200055101

Rev.: 01

Page: 21 of 88



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Report No.: SZCR240200055101

Rev.: 01

Page: 22 of 88

3.2 Band13_XDB

3.2.1 Test Result

Band: 13 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	779.5	25	0	5.138	/	Pass
		782	25	0	5.245	/	Pass
		784.5	25	0	5.205	/	Pass
	16QAM	779.5	25	0	5.169	/	Pass
		782	25	0	5.224	/	Pass
		784.5	25	0	5.237	/	Pass
	64QAM	779.5	25	0	5.194	/	Pass
		782	25	0	5.237	/	Pass
10	QPSK	782	50	0	10.037	/	Pass
	16QAM	782	50	0	10.092	/	Pass
	64QAM	782	50	0	10.089	/	Pass



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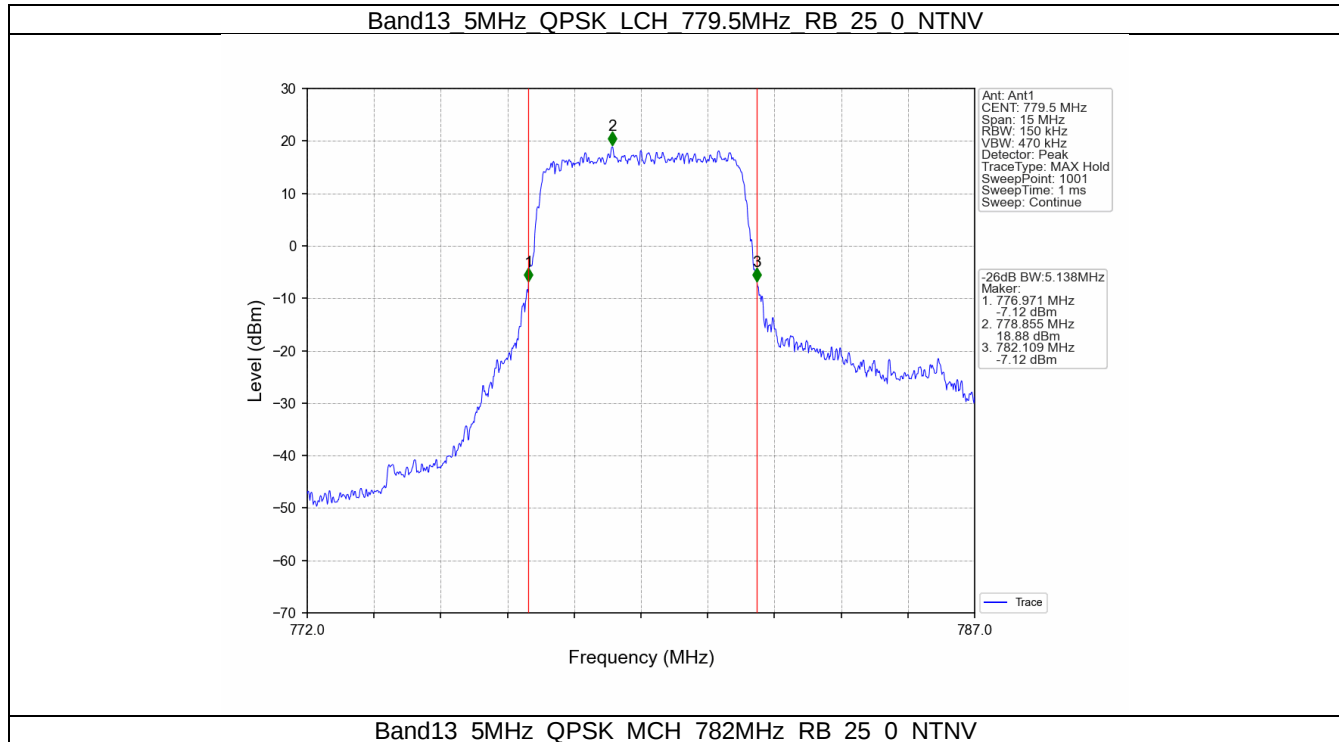
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Report No.: SZCR240200055101

Rev.: 01

Page: 23 of 88

3.2.2 Test Graph



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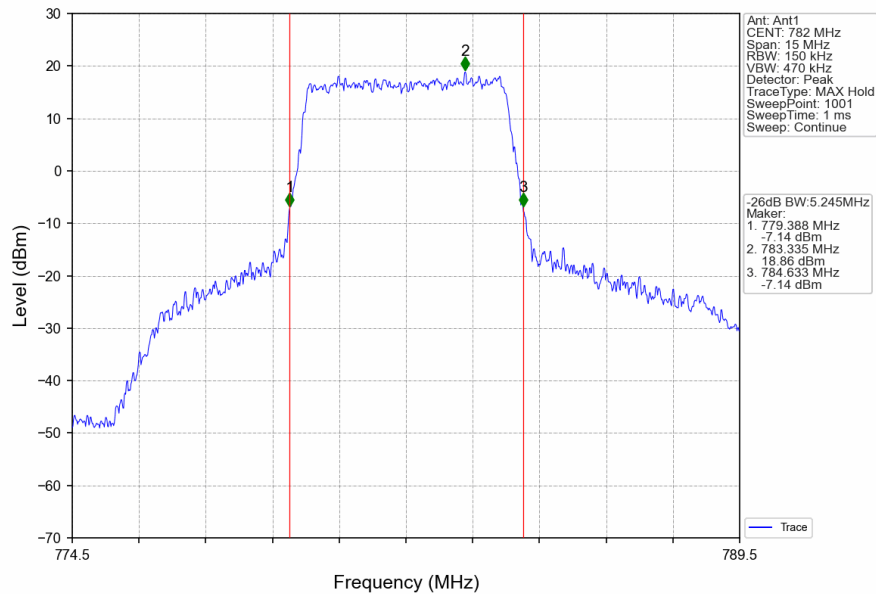


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Report No.: SZCR240200055101

Rev.: 01

Page: 24 of 88



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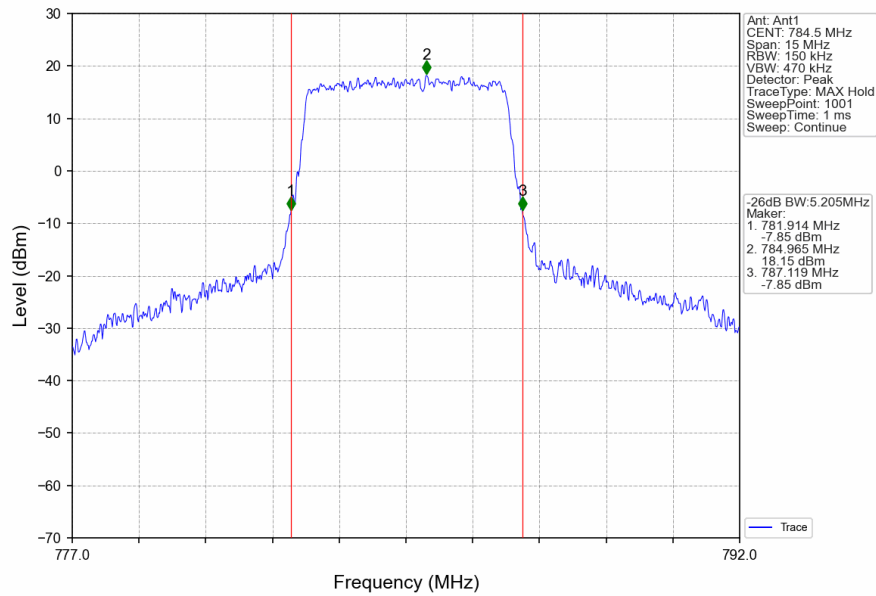
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Report No.: SZCR240200055101

Rev.: 01

Page: 25 of 88

Band13_5MHz_QPSK_HCH_784.5MHz_RB_25_0_NTNV



Band13_5MHz_16QAM_LCH_779.5MHz_RB_25_0_NTNV



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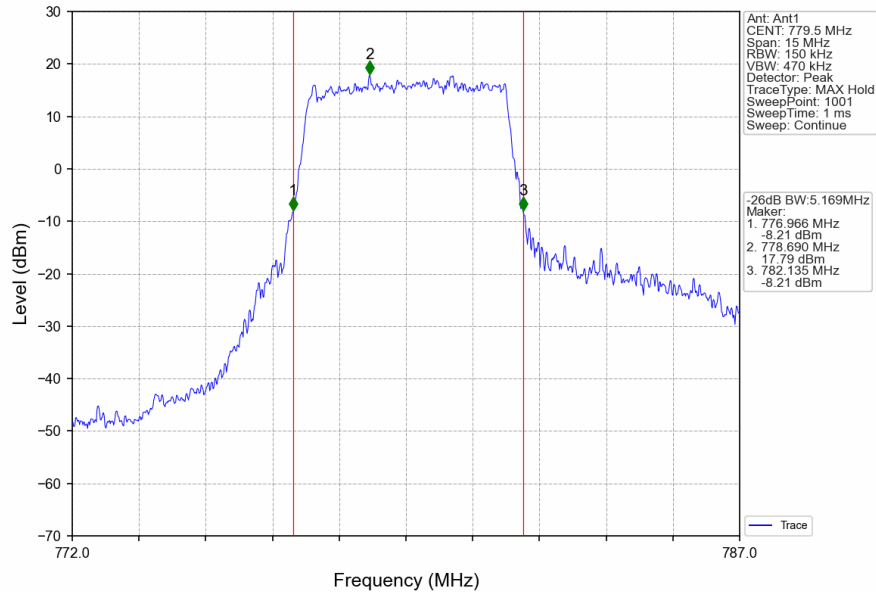


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Report No.: SZCR240200055101

Rev.: 01

Page: 26 of 88



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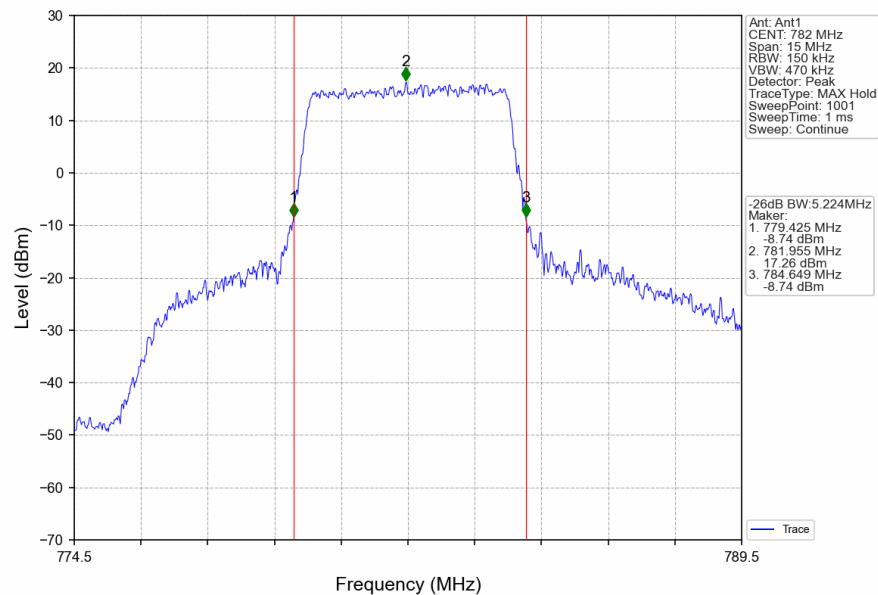
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Report No.: SZCR240200055101

Rev.: 01

Page: 27 of 88

Band13_5MHz_16QAM_MCH_782MHz_RB_25_0_NTNV



Band13_5MHz_16QAM_HCH_784.5MHz_RB_25_0_NTNV



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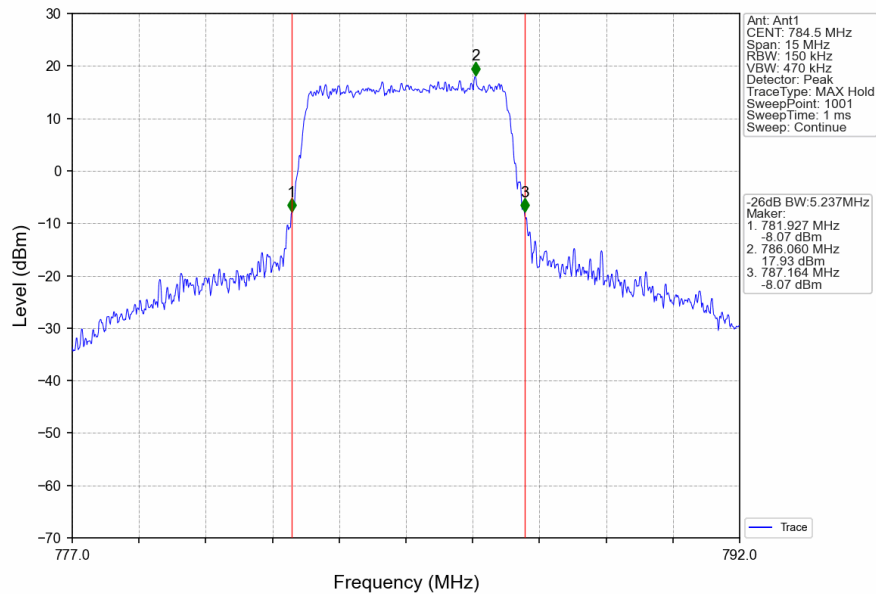


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Rev.: 01

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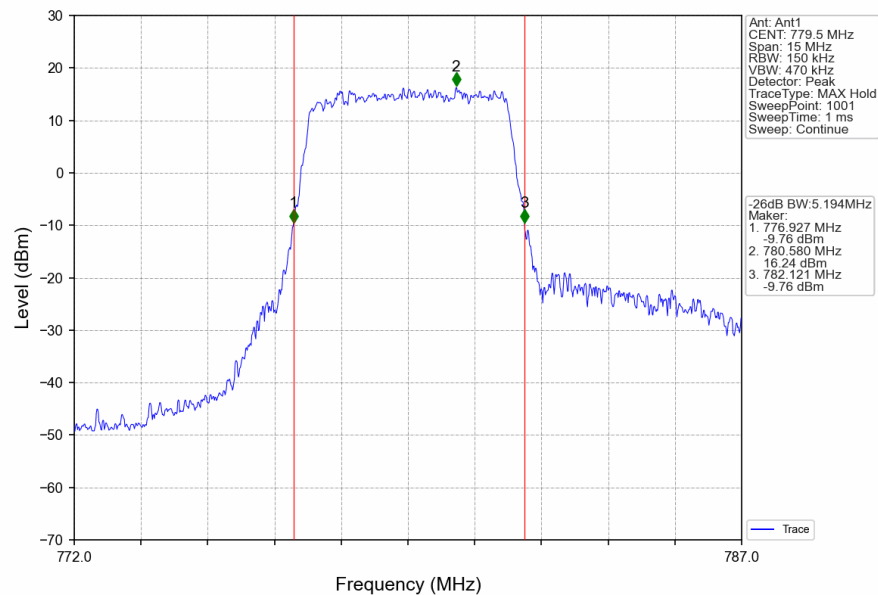
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Report No.: SZCR240200055101

Rev.: 01

Page: 29 of 88

Band13_5MHz_64QAM_LCH_779.5MHz_RB_25_0_NTNV



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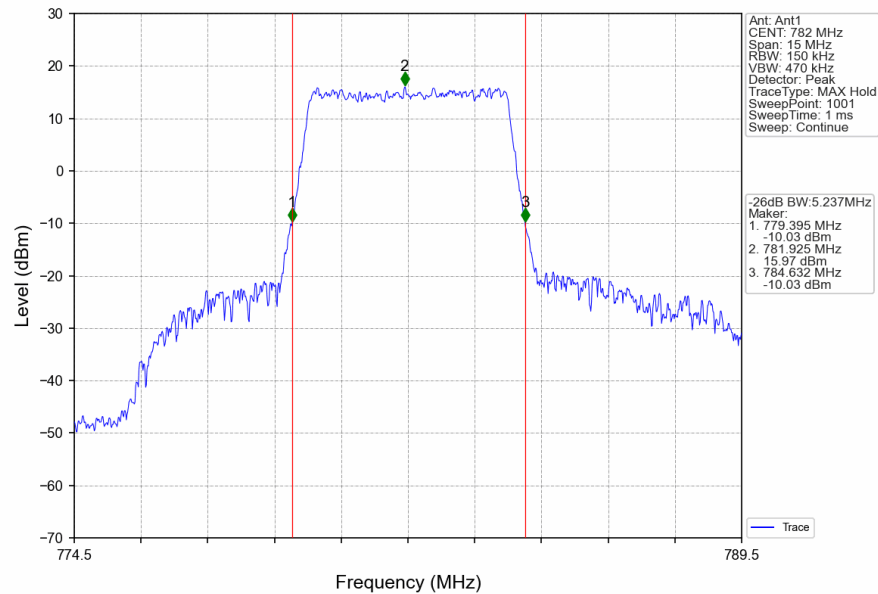


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Rev.: 01

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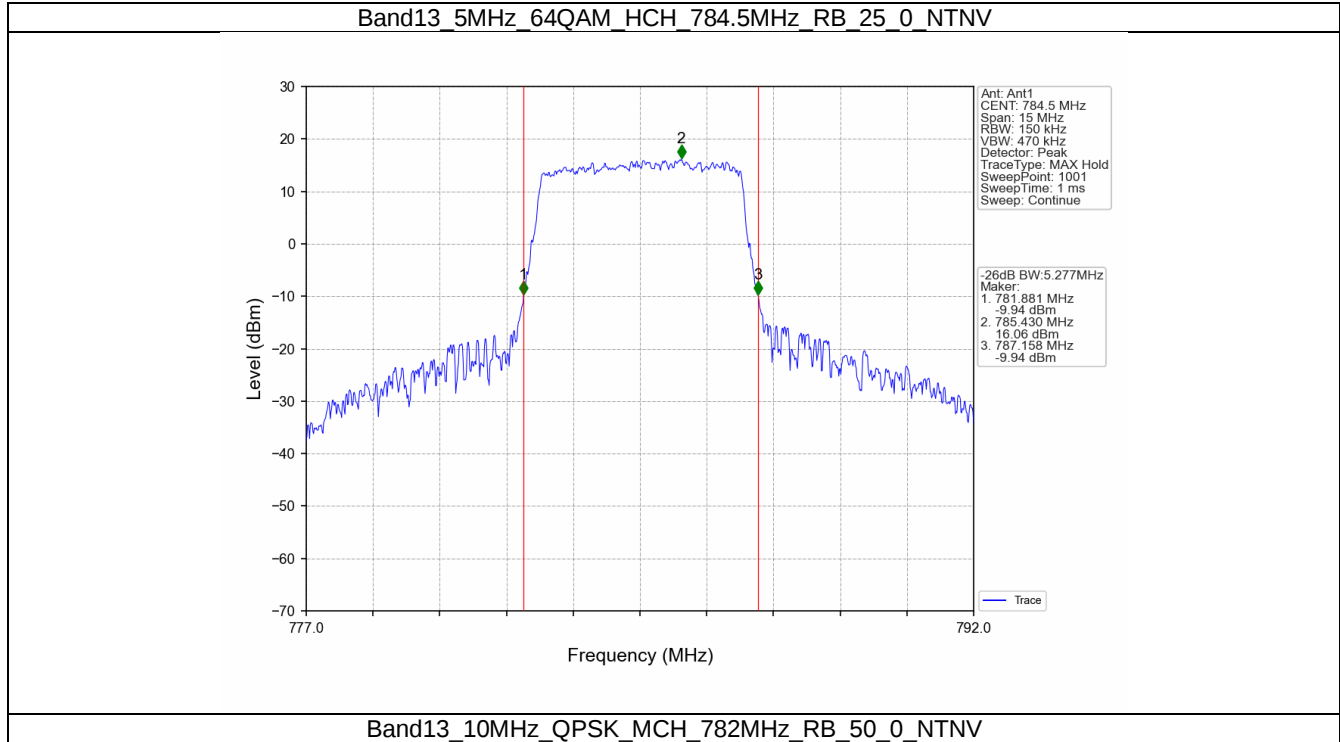


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Rev.: 01

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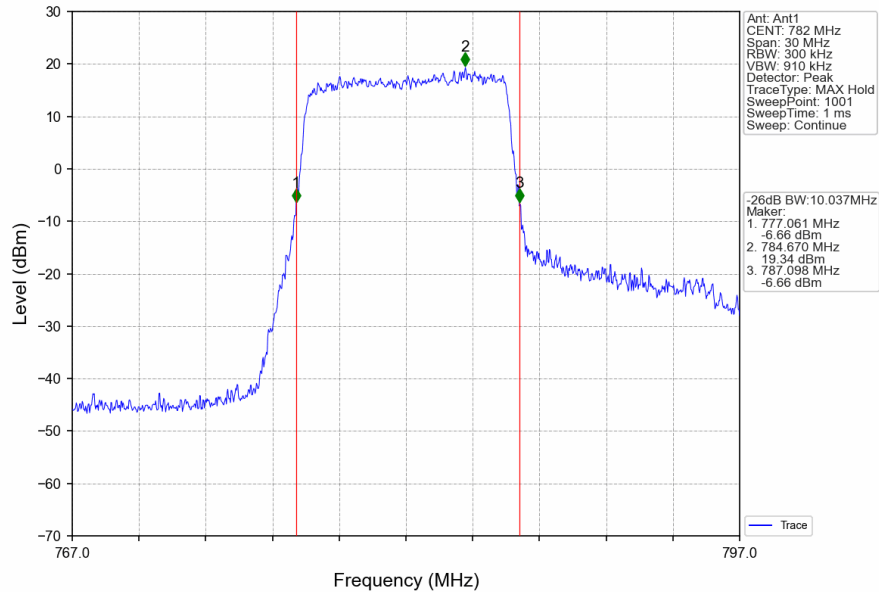


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Report No.: SZCR240200055101

Rev.: 01

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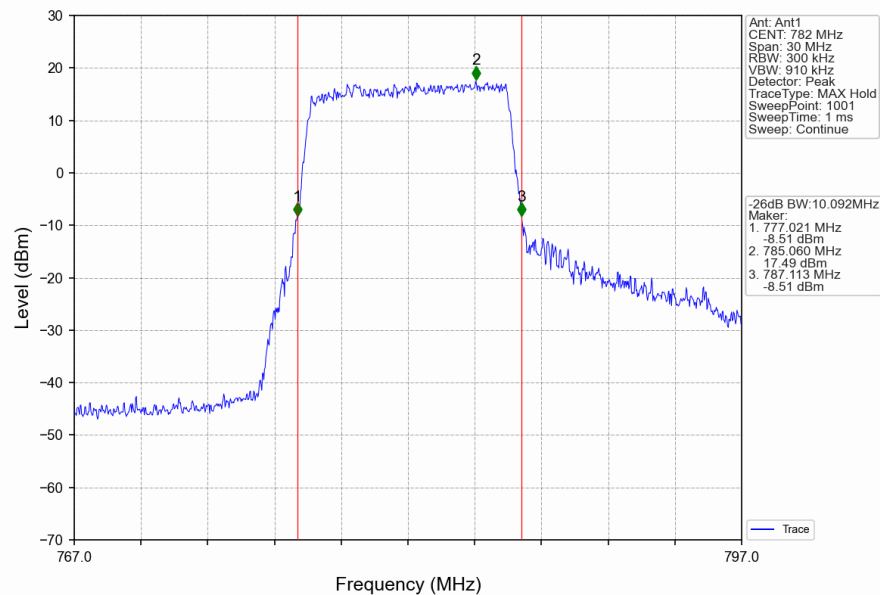
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Report No.: SZCR240200055101

Rev.: 01

Page: 33 of 88

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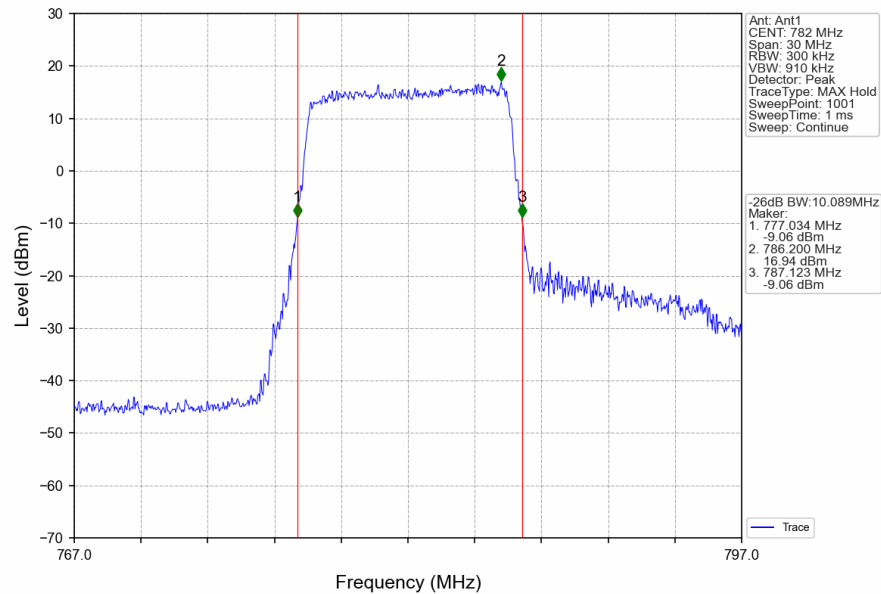


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Rev.: 01

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Report No.: SZCR240200055101

Rev.: 01

Page: 35 of 88

4. Peak-Average Ratio

4.1 B13_5MHz

4.1.1 Test Result

Band: 13 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	779.5	25	0	5.21	<=13	Pass
	782	25	0	5.38	<=13	Pass
	784.5	25	0	5.23	<=13	Pass
16QAM	779.5	25	0	6.05	<=13	Pass
	782	25	0	6.20	<=13	Pass
	784.5	25	0	6.06	<=13	Pass
64QAM	779.5	25	0	9.61	<=13	Pass
	782	25	0	9.78	<=13	Pass
	784.5	25	0	9.62	<=13	Pass



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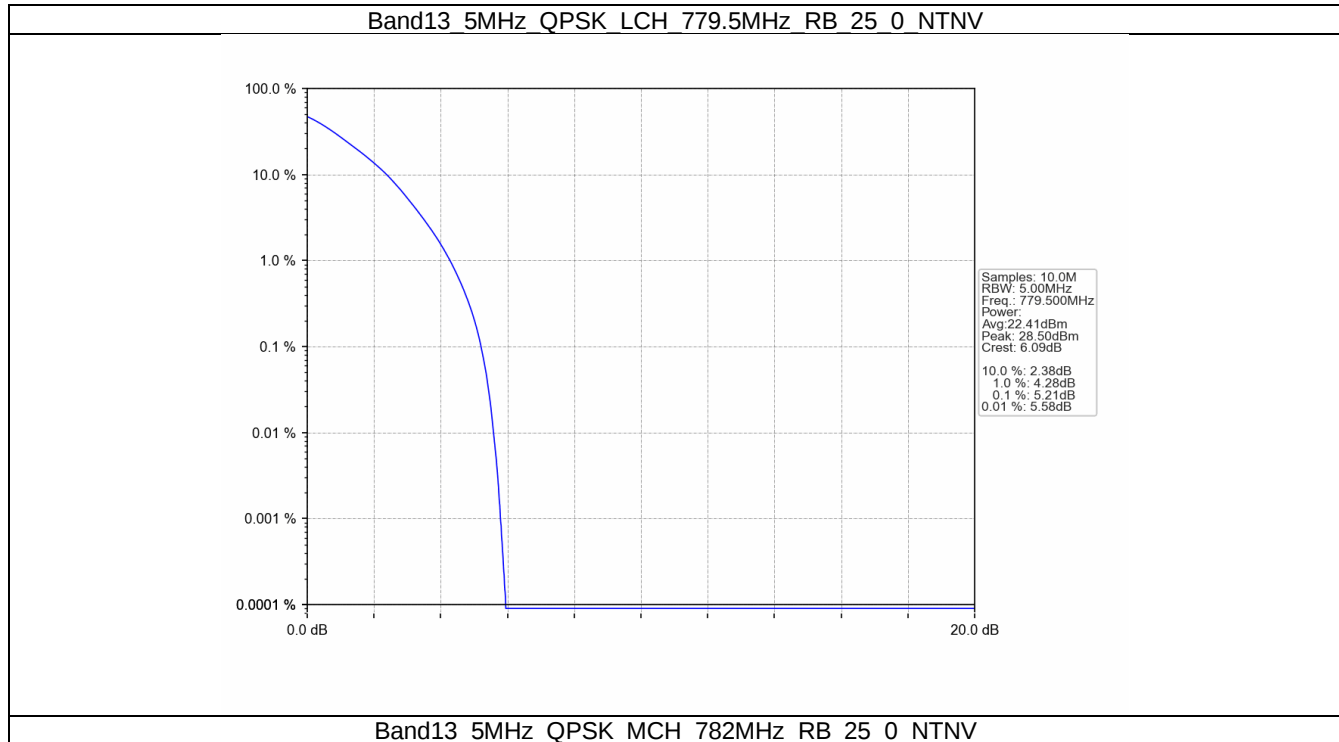
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Report No.: SZCR240200055101

Rev.: 01

Page: 36 of 88

4.1.2 Test Graph



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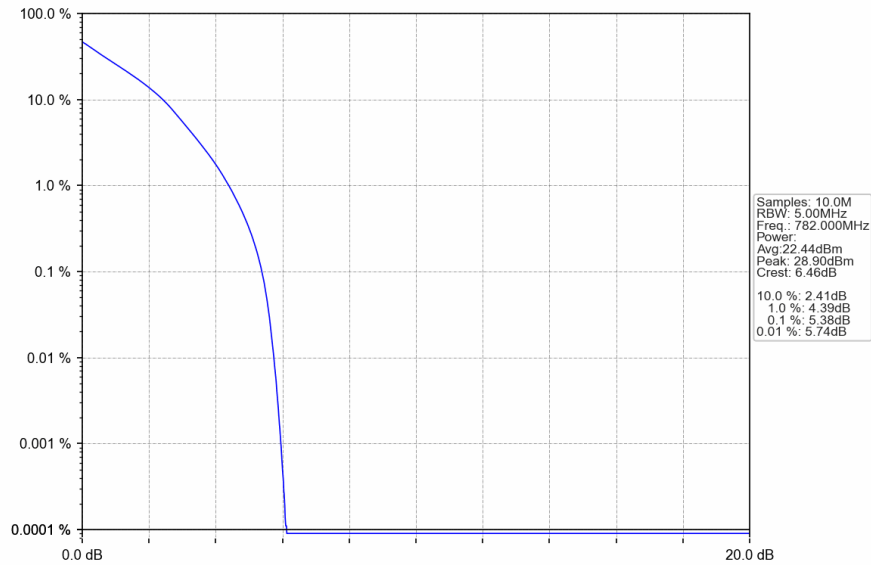


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Report No.: SZCR240200055101

Rev.: 01

Page: 37 of 88



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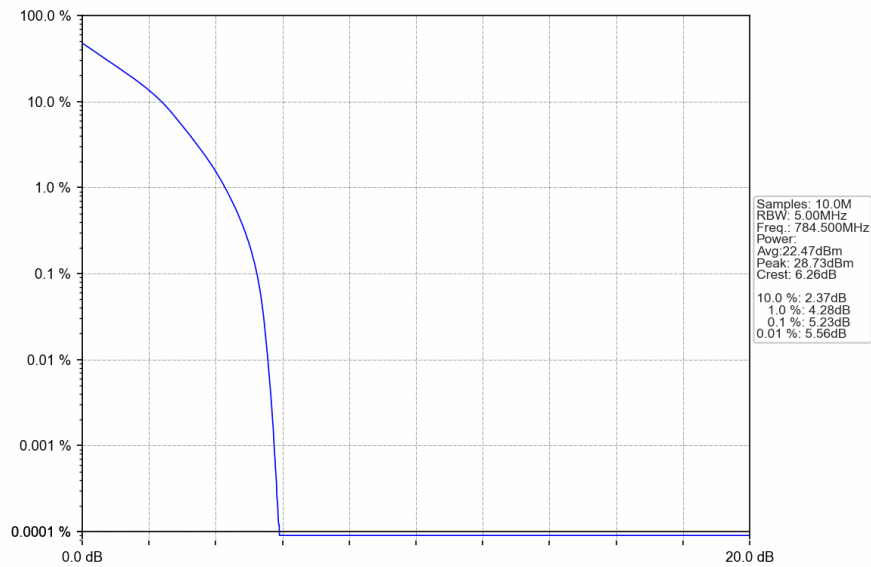
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Report No.: SZCR240200055101

Rev.: 01

Page: 38 of 88

Band13_5MHz_QPSK_HCH_784.5MHz_RB_25_0_NTNV



Band13_5MHz_16QAM_LCH_779.5MHz_RB_25_0_NTNV



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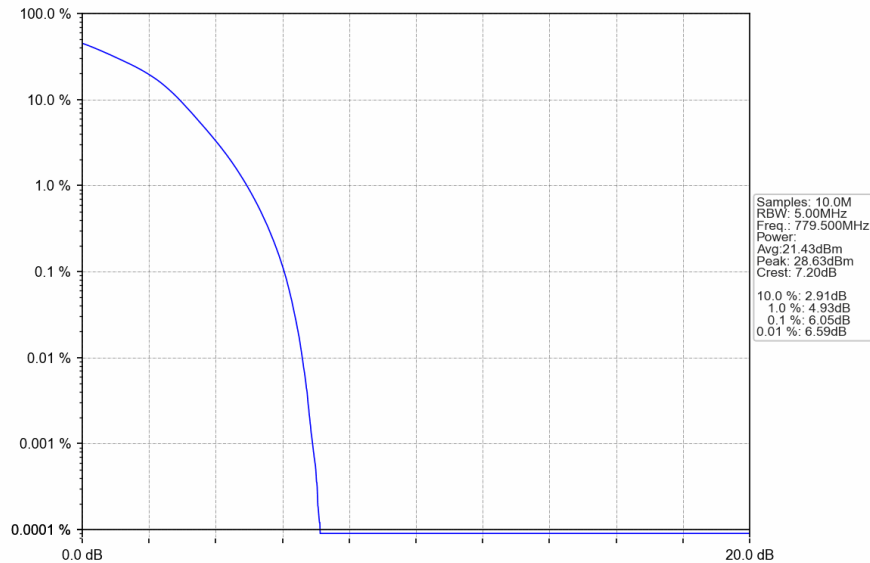


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Report No.: SZCR240200055101

Rev.: 01

Page: 39 of 88



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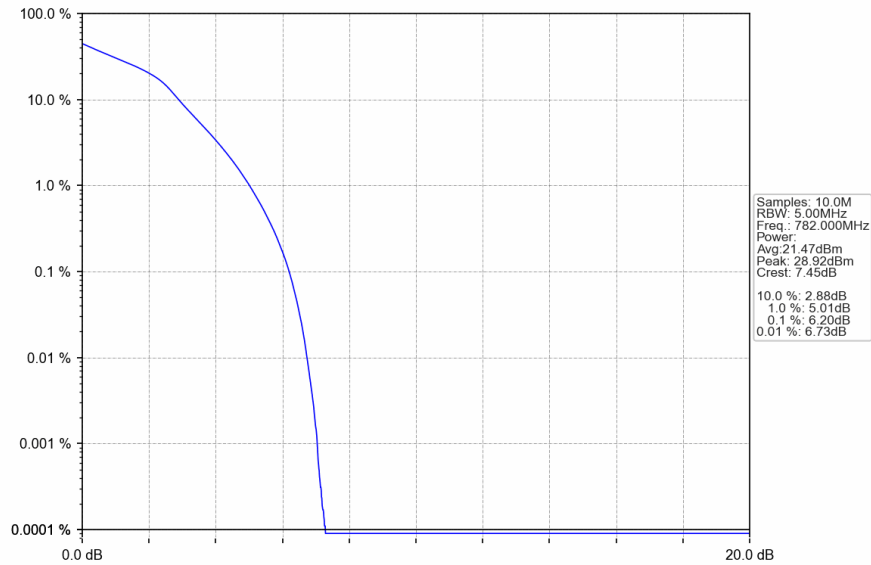
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Report No.: SZCR240200055101

Rev.: 01

Page: 40 of 88

Band13_5MHz_16QAM_MCH_782MHz_RB_25_0_NTNV



Band13_5MHz_16QAM_HCH_784.5MHz_RB_25_0_NTNV



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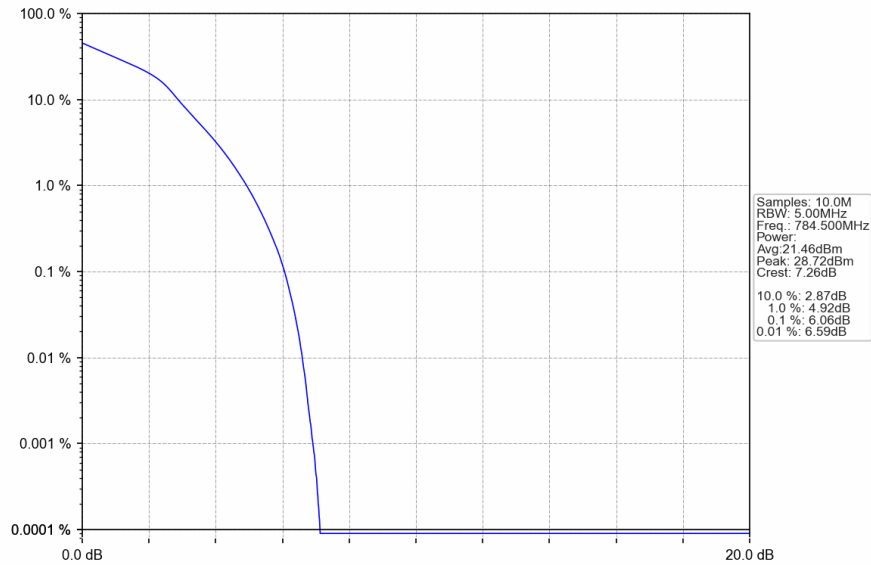


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Report No.: SZCR240200055101

Rev.: 01

Page: 41 of 88



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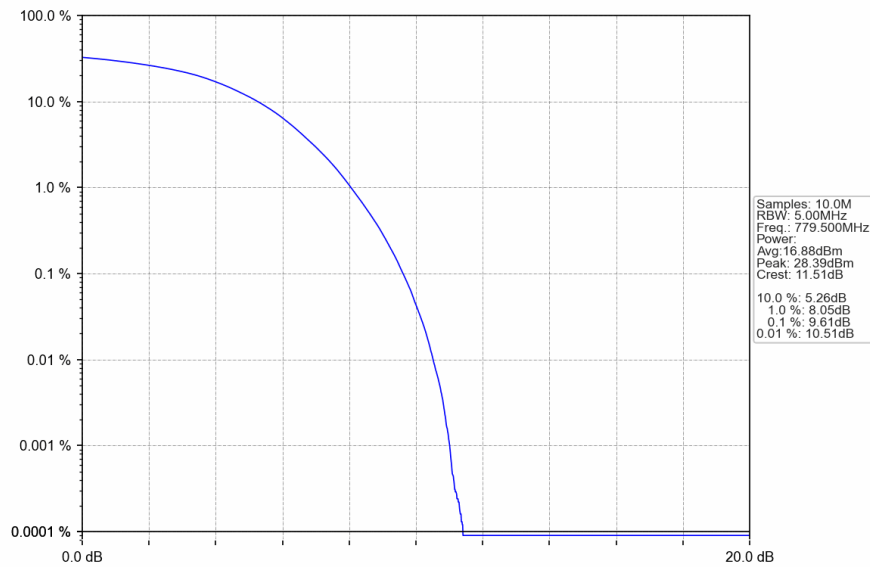
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Report No.: SZCR240200055101

Rev.: 01

Page: 42 of 88

Band13_5MHz_64QAM_LCH_779.5MHz_RB_25_0_NTNV



Band13_5MHz_64QAM_MCH_782MHz_RB_25_0_NTNV



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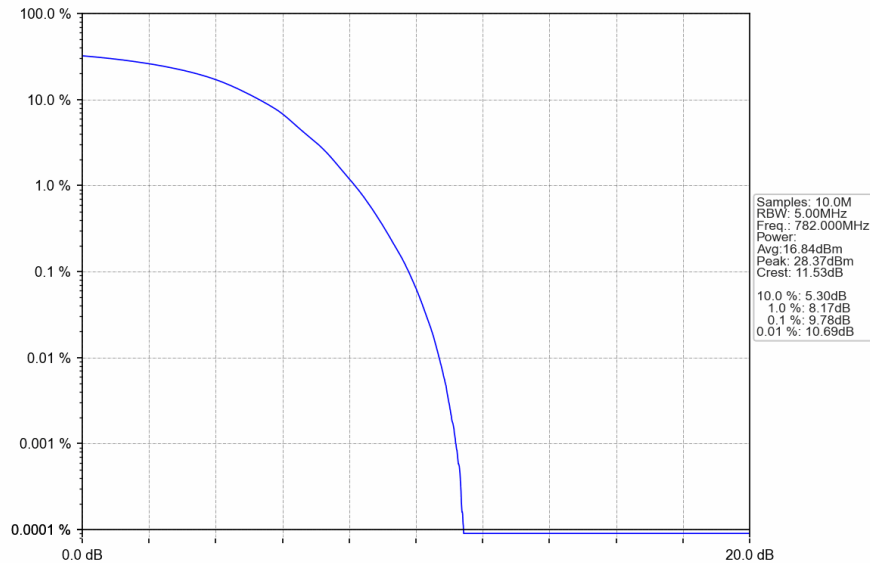


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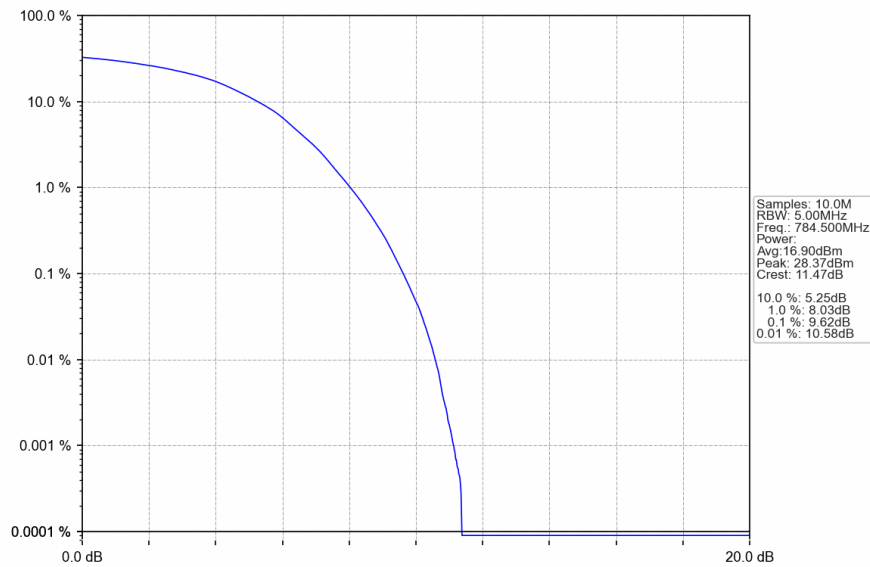
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Report No.: SZCR240200055101

Rev.: 01

Page: 45 of 88

4.2 B13_10MHz

4.2.1 Test Result

Band: 13 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	782	50	0	5.31	<=13	Pass
16QAM	782	50	0	6.10	<=13	Pass
64QAM	782	50	0	7.54	<=13	Pass



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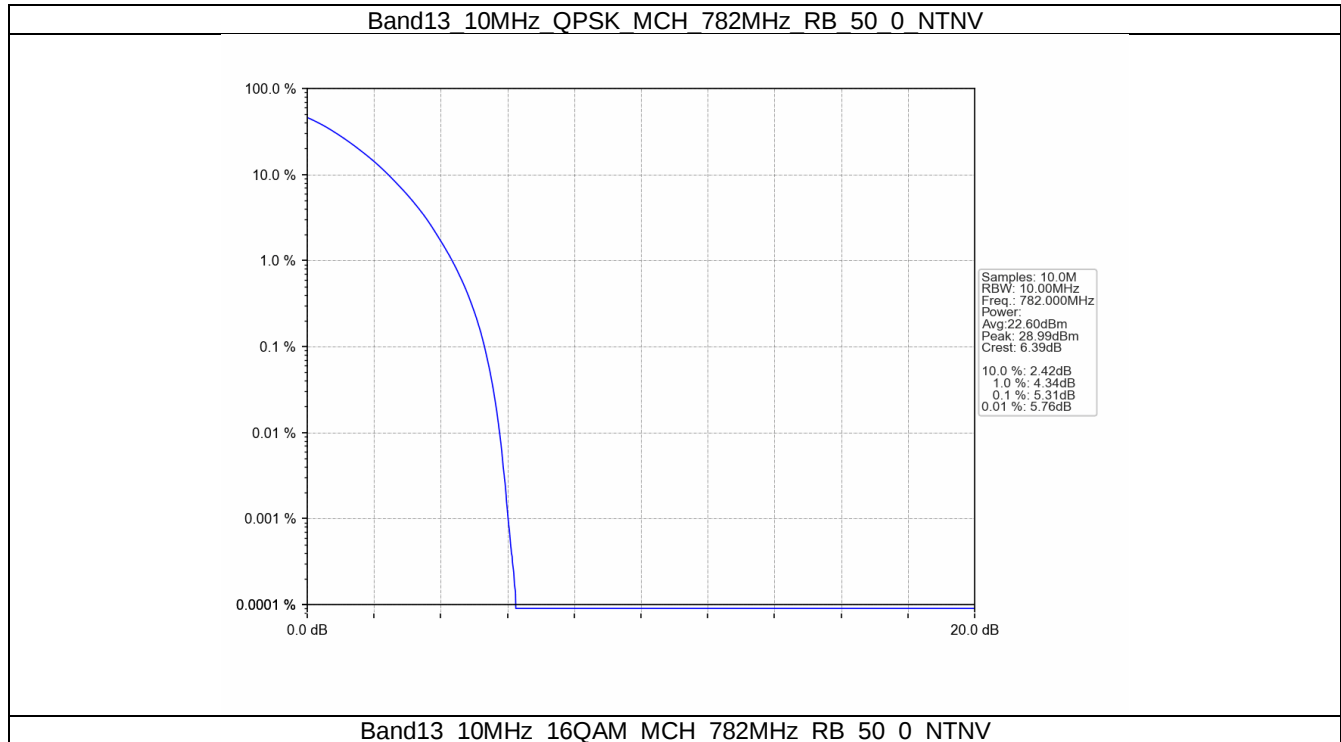
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Rev.: 01

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4.2.2 Test Graph



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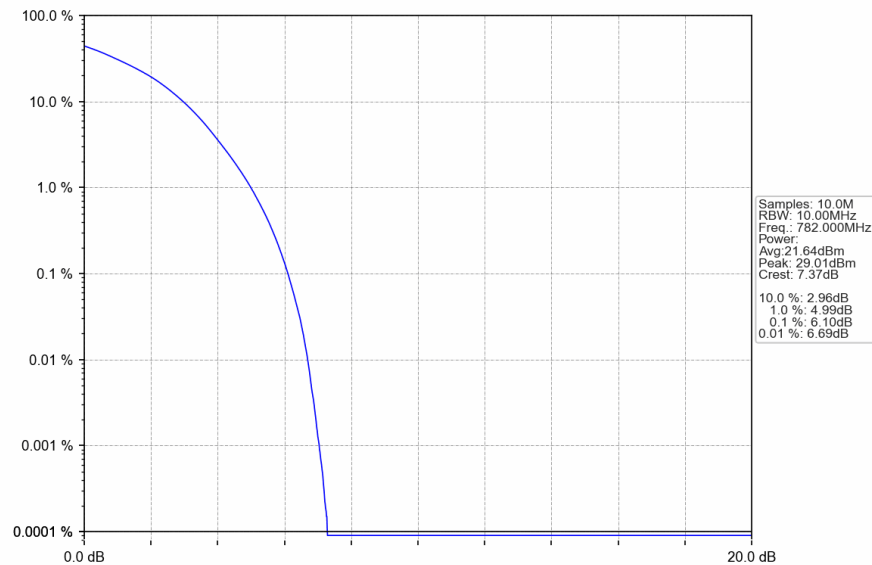


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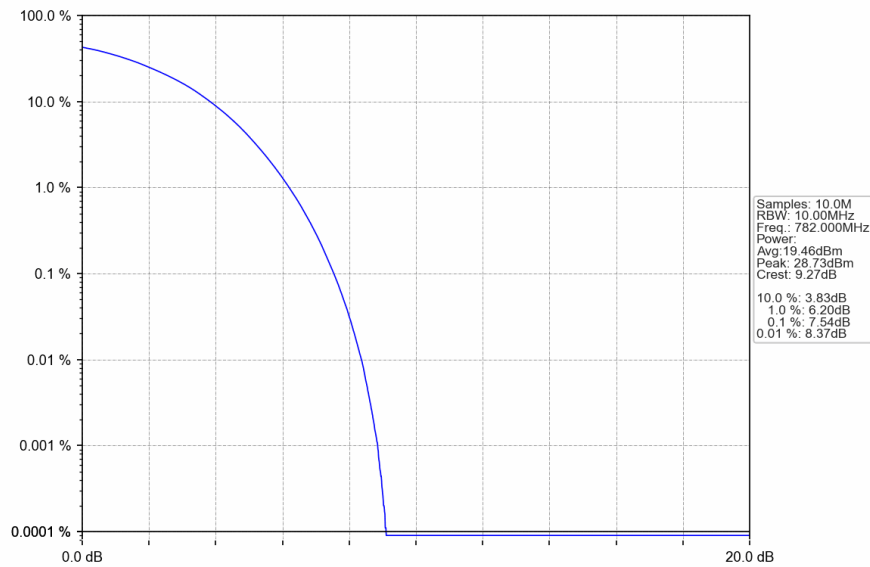
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Band13_10MHz_64QAM_MCH_782MHz_RB_50_0_NTNV



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Rev.: 01

Page: 49 of 88

5. Spurious Emission & Band Edges

5.1 B13_5MHz

5.1.1 Test Result

Band: 13 / Bandwidth: 5MHz / NTNv						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	779.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	782	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
	784.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
16QAM	779.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	782	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
	784.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
64QAM	779.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	782	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
	784.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass



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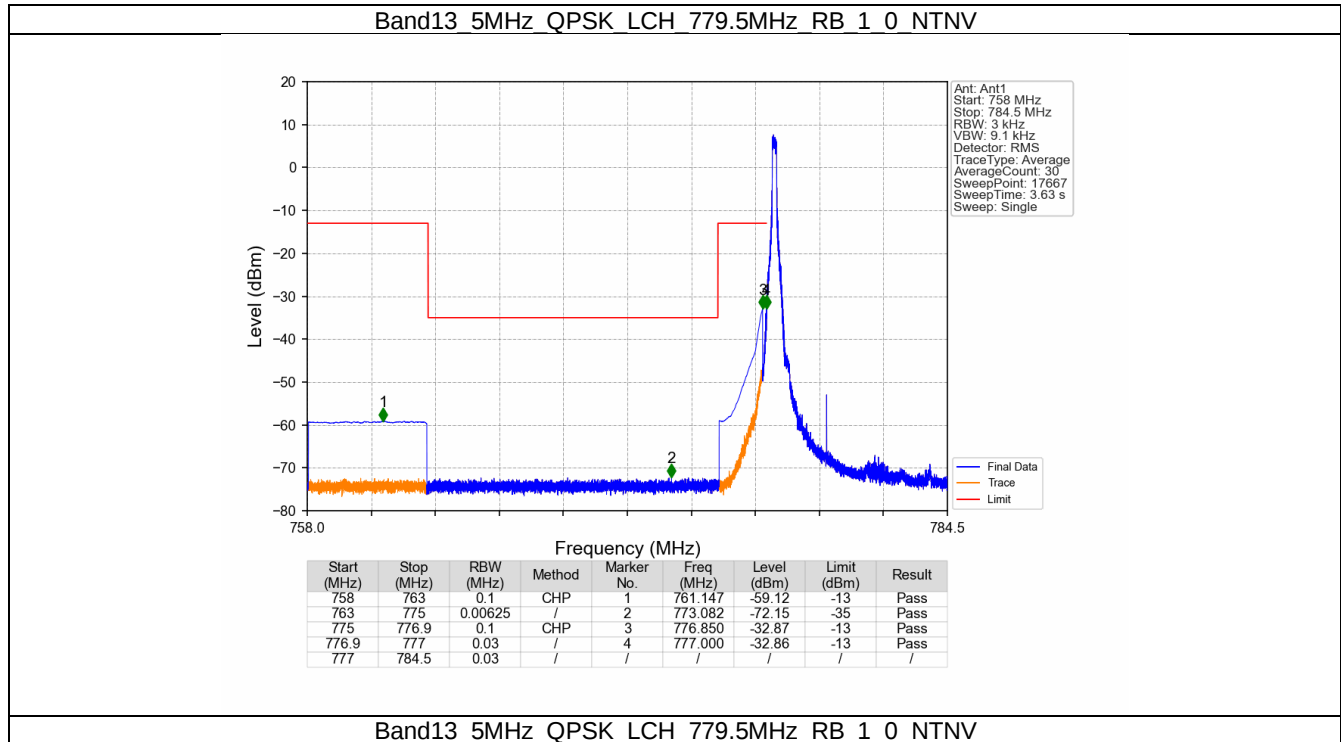
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Report No.: SZCR240200055101

Rev.: 01

Page: 50 of 88

5.1.2 Test Graph



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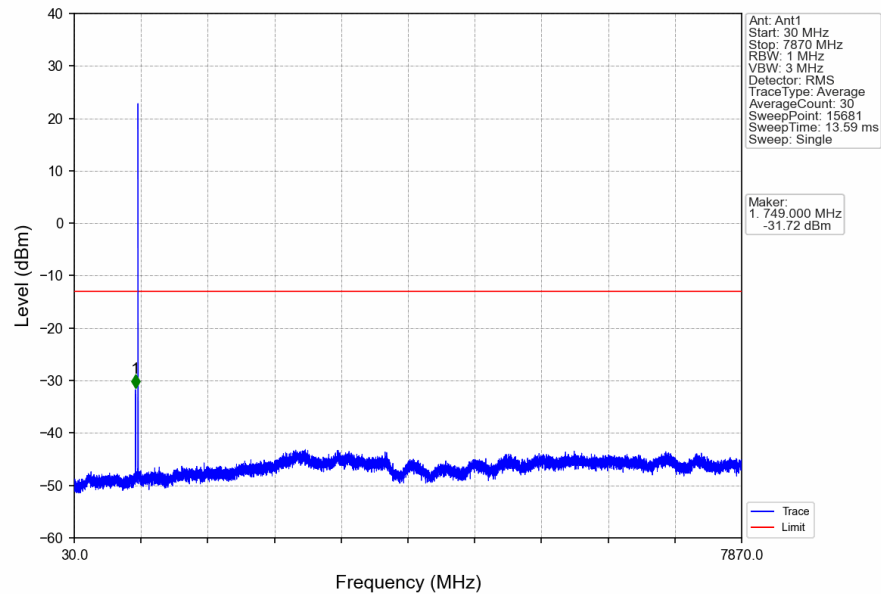


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Rev.: 01

Page: 51 of 88



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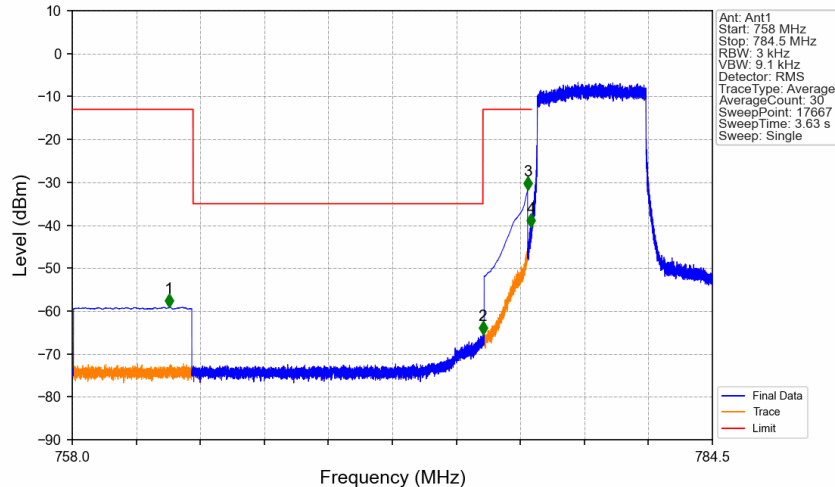
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Report No.: SZCR240200055101

Rev.: 01

Page: 52 of 88

Band13_5MHz_QPSK_LCH_779.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	762.011	-59.10	-13	Pass
763	775	0.00625	/	2	774.999	-65.51	-35	Pass
775	776.9	0.1	CHP	3	776.850	-31.82	-13	Pass
776.9	777	0.03	/	4	776.988	-40.44	-13	Pass
777	784.5	0.03	/	/	/	/	/	/

Band13_5MHz_QPSK_MCH_782MHz_RB_1_0_NTNV



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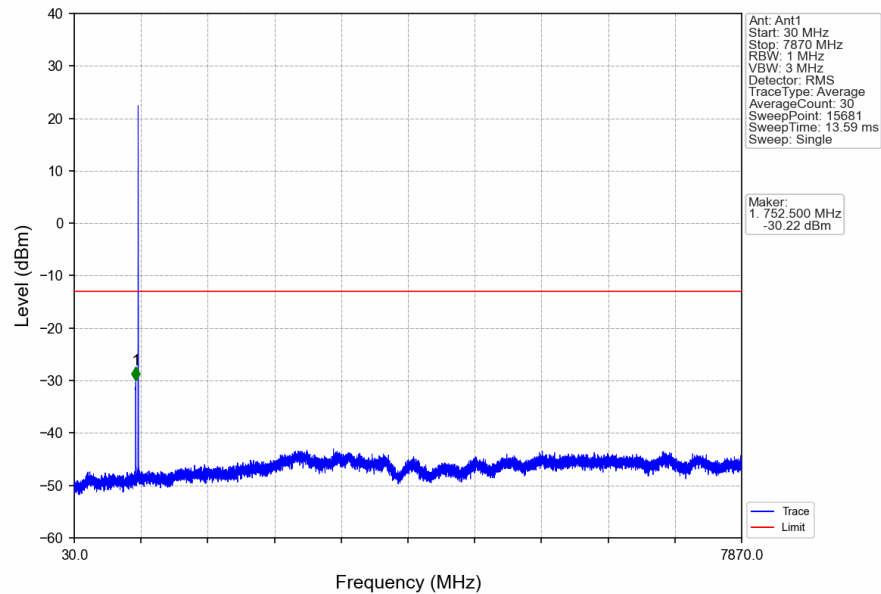


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Report No.: SZCR240200055101

Rev.: 01

Page: 53 of 88



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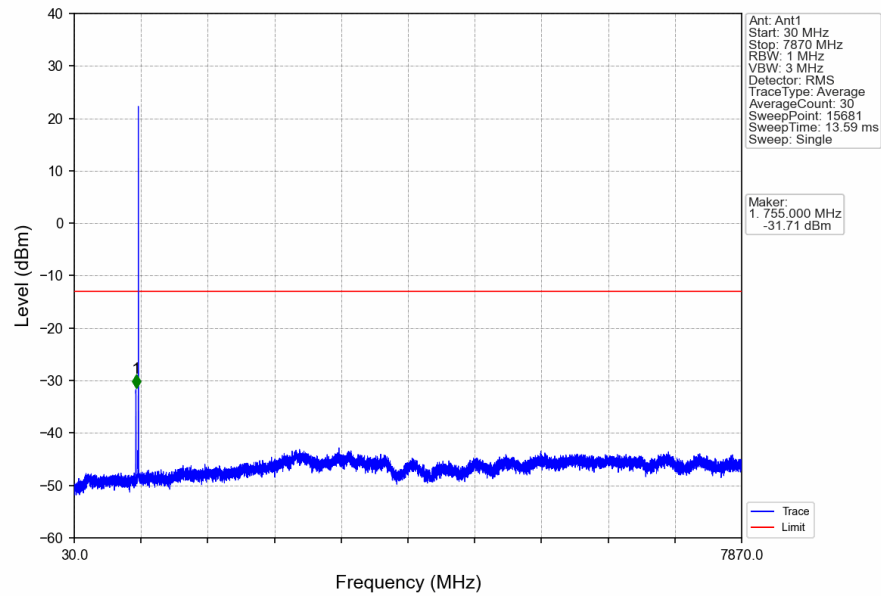
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Report No.: SZCR240200055101

Rev.: 01

Page: 54 of 88

Band13 5MHz QPSK HCH 784.5MHz RB 1 0 NTN



Band13 5MHz QPSK HCH 784.5MHz RB 1 24 NTN



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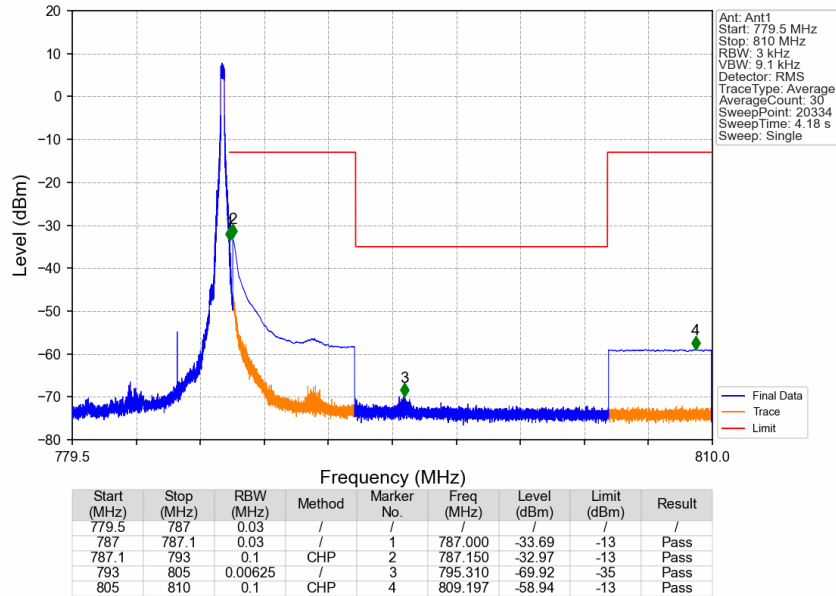


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Rev.: 01

Page: 55 of 88



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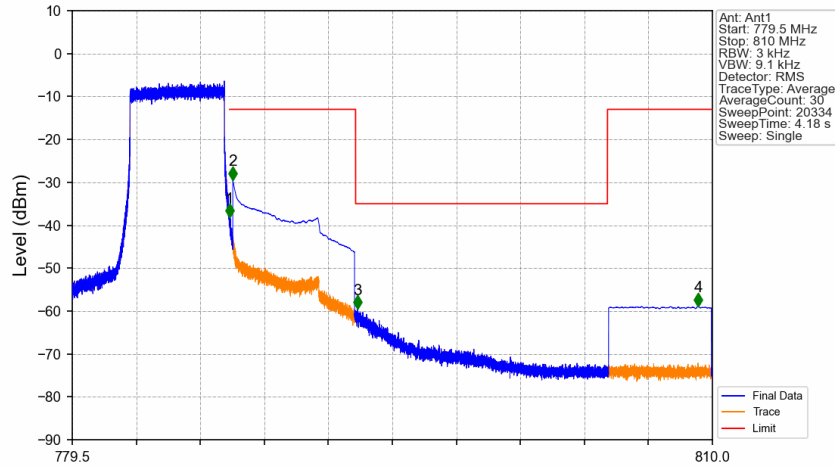
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Report No.: SZCR240200055101

Rev.: 01

Page: 56 of 88

Band13 5MHz QPSK HCH 784.5MHz RB 25 0 NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
779.5	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	1	787.000	-38.12	-13	Pass
787.1	793	0.1	CHP	2	787.150	-29.44	-13	Pass
793	805	0.00625	/	3	793.087	-59.47	-35	Pass
805	810	0.1	CHP	4	809.326	-58.88	-13	Pass

Band13 5MHz 16QAM LCH 779.5MHz RB 1 0 NTNV



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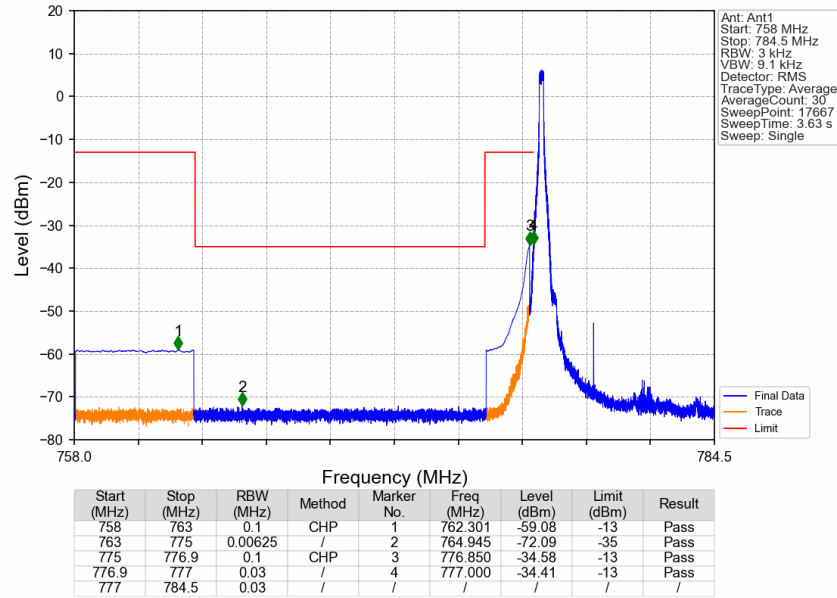


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Rev.: 01

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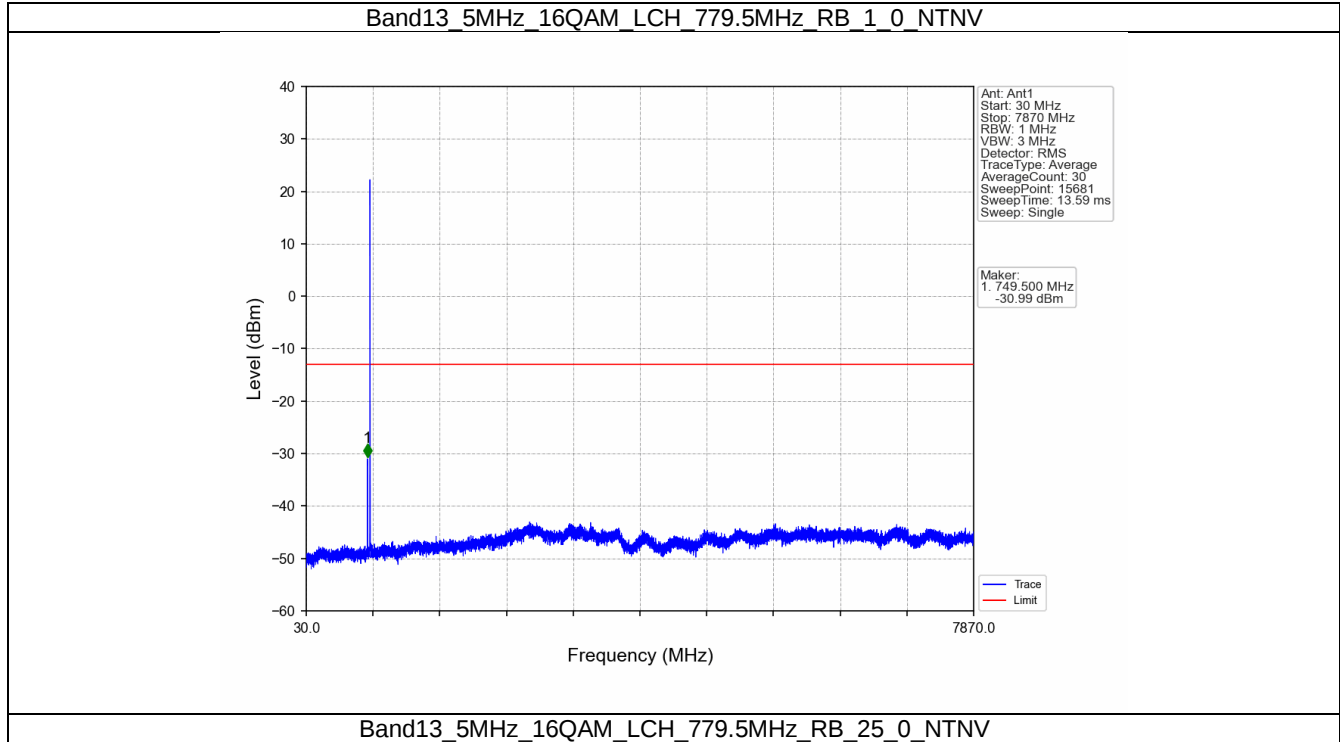


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Rev.: 01

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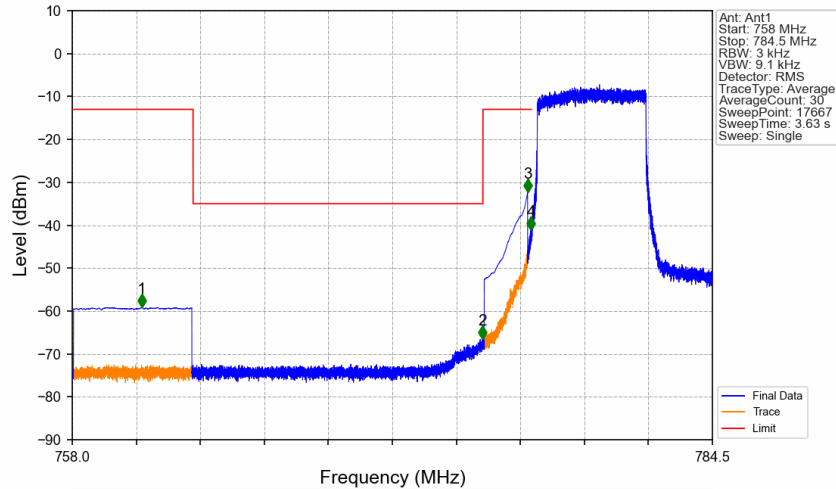


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Report No.: SZCR240200055101

Rev.: 01

Page: 59 of 88



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	760.876	-59.18	-13	Pass
763	775	0.00625	/	2	774.976	-66.62	-35	Pass
775	776.9	0.1	CHP	3	776.850	-32.37	-13	Pass
776.9	777	0.03	/	4	776.989	-41.17	-13	Pass
777	784.5	0.03	/	/	/	/	/	/



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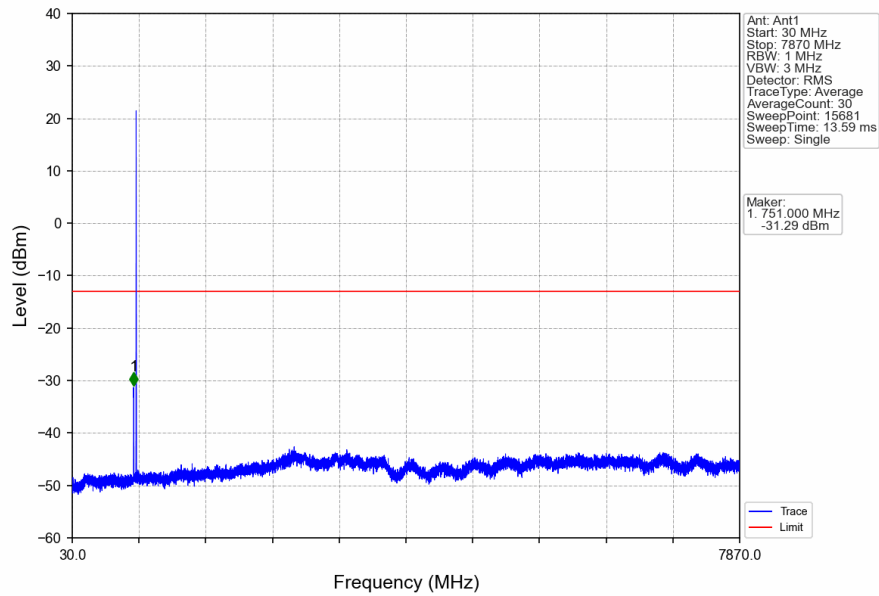
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Report No.: SZCR240200055101

Rev.: 01

Page: 60 of 88

Band13_5MHz_16QAM_MCH_782MHz_RB_1_0_NTNV



Band13_5MHz_16QAM_HCH_784.5MHz_RB_1_0_NTNV



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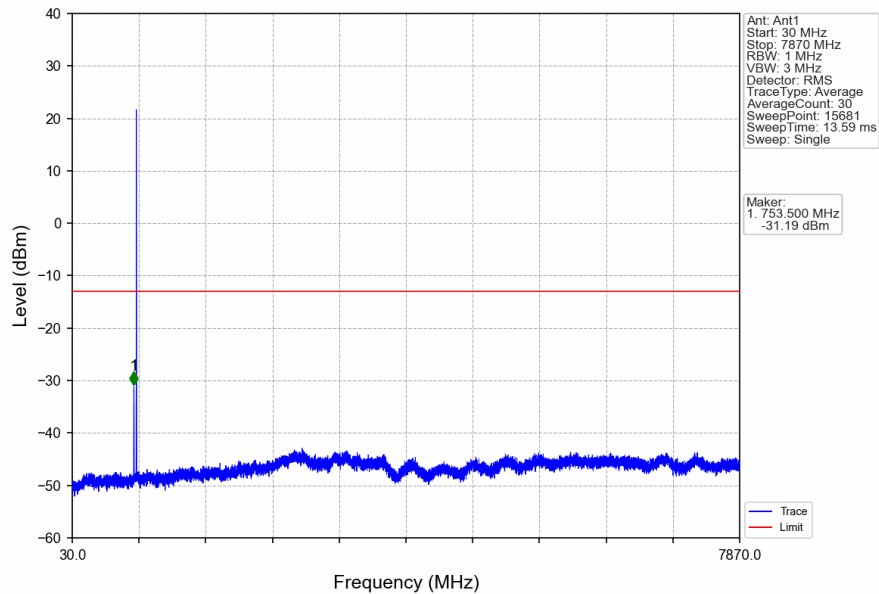


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Rev.: 01

Page: 61 of 88



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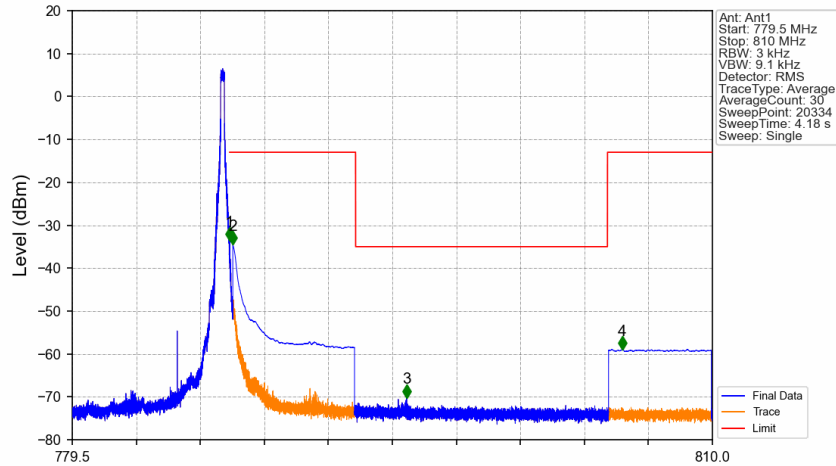
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Report No.: SZCR240200055101

Rev.: 01

Page: 62 of 88

Band13_5MHz_16QAM_HCH_784.5MHz_RB_1_24_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
779.5	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	1	787.000	-33.68	-13	Pass
787.1	793	0.1	CHP	2	787.150	-34.57	-13	Pass
793	805	0.00625	/	3	795.430	-70.22	-35	Pass
805	810	0.1	CHP	4	805.695	-58.96	-13	Pass

Band13_5MHz_16QAM_HCH_784.5MHz_RB_25_0_NTNV



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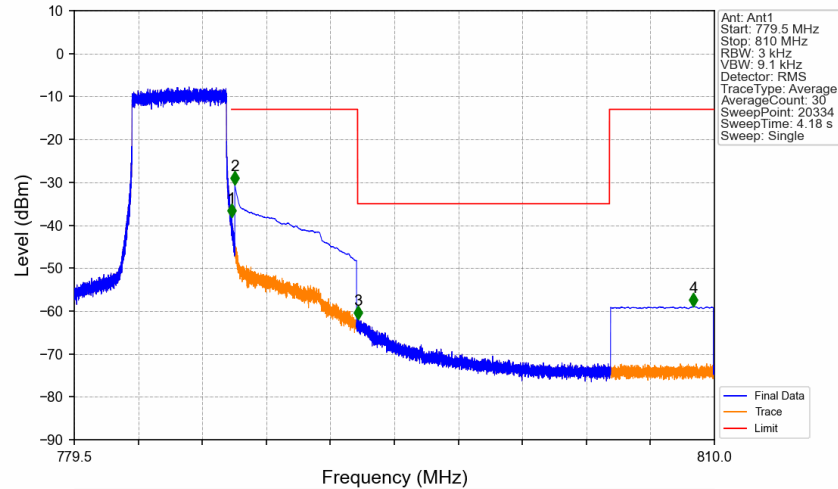


SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240200055101

Rev.: 01

Page: 63 of 88



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
779.5	787	0.03	/	1	787.000	-38.20	-13	Pass
787.1	793	0.1	CHP	2	787.150	-30.58	-13	Pass
793	805	0.00625	/	3	793.014	-61.95	-35	Pass
805	810	0.1	CHP	4	809.002	-58.97	-13	Pass



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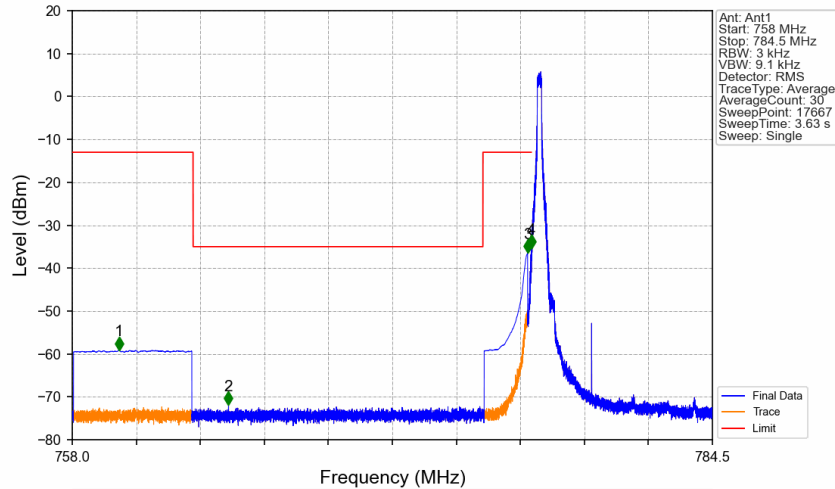
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Report No.: SZCR240200055101

Rev.: 01

Page: 64 of 88

Band13 5MHz 64QAM LCH 779.5MHz RB 1 0 NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	759.931	-59.12	-13	Pass
763	775	0.00625	/	2	764.468	-71.84	-35	Pass
775	776.9	0.1	CHP	3	776.850	-36.47	-13	Pass
776.9	777	0.03	/	4	776.998	-35.42	-13	Pass
777	784.5	0.03	/	/	/	/	/	/

Band13 5MHz 64QAM LCH 779.5MHz RB 1 0 NTNV



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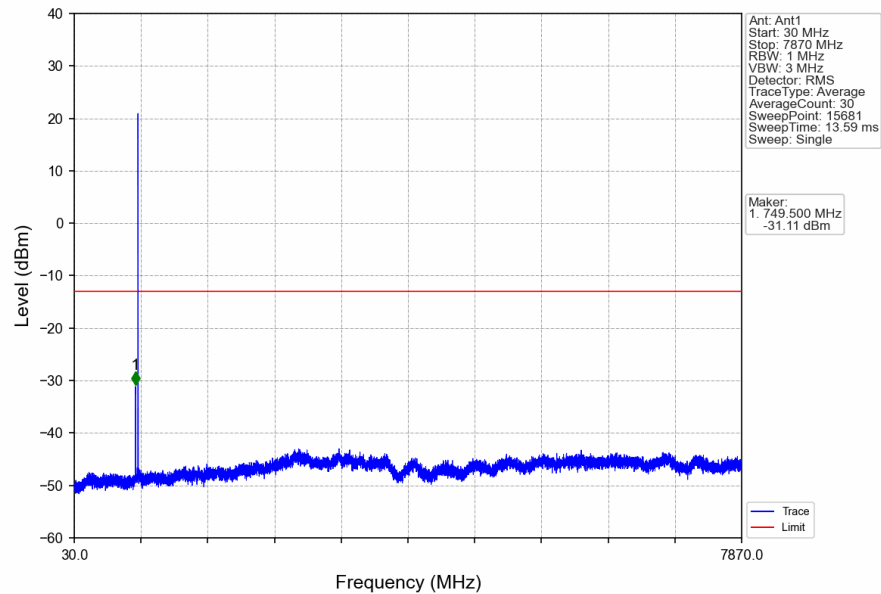


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Report No.: SZCR240200055101

Rev.: 01

Page: 65 of 88



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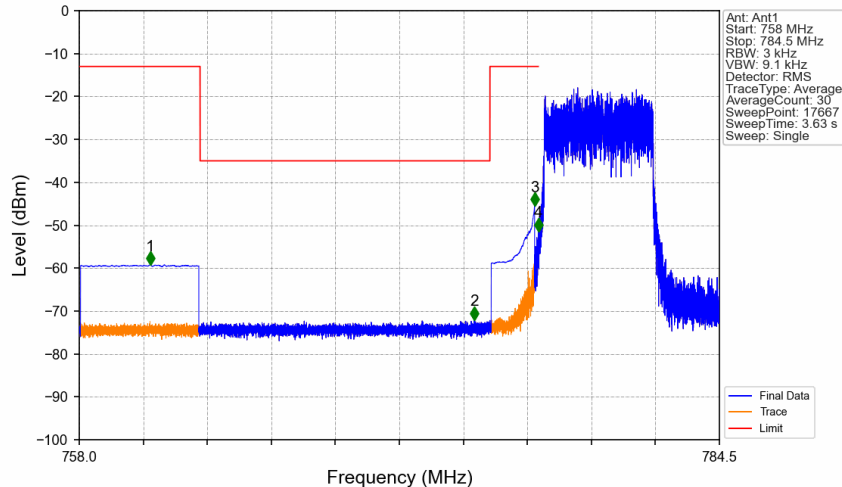
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Report No.: SZCR240200055101

Rev.: 01

Page: 66 of 88

Band13_5MHz_64QAM_LCH_779.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	760.933	-59.23	-13	Pass
763	775	0.00625	/	2	774.349	-72.07	-35	Pass
775	776.9	0.1	CHP	3	776.850	-45.51	-13	Pass
776.9	777	0.03	/	4	777.000	-51.43	-13	Pass
777	784.5	0.03	/	/	/	/	/	/

Band13_5MHz_64QAM_MCH_782MHz_RB_1_0_NTNV



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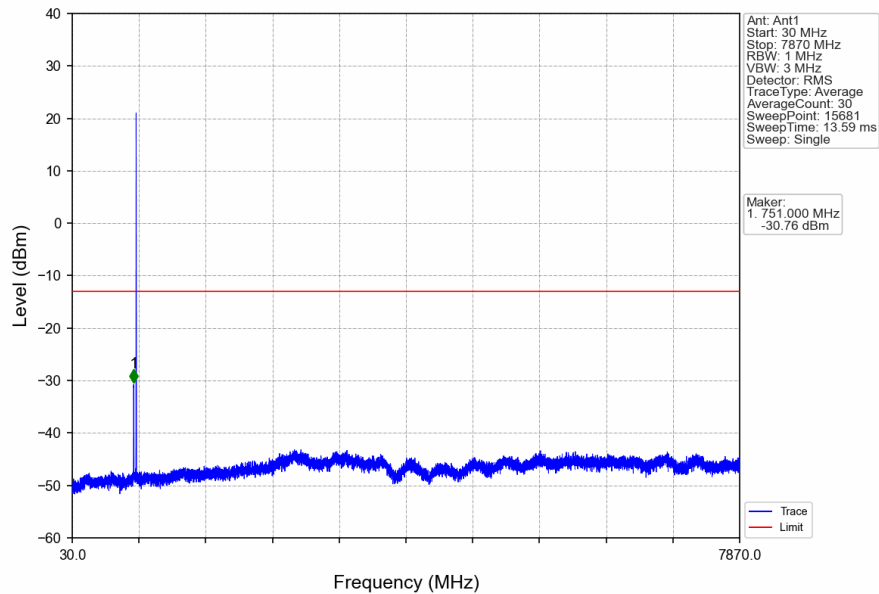


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Report No.: SZCR240200055101

Rev.: 01

Page: 67 of 88



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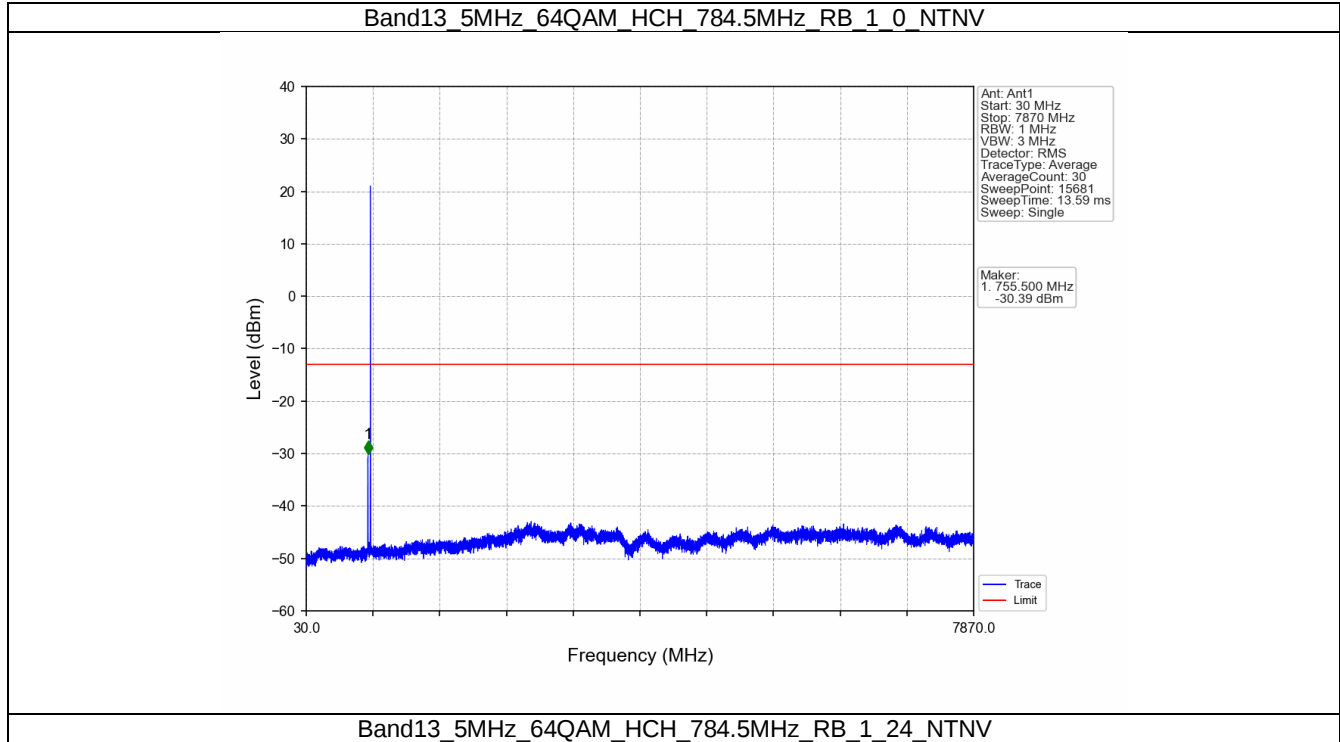


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Report No.: SZCR240200055101

Rev.: 01

Page: 68 of 88



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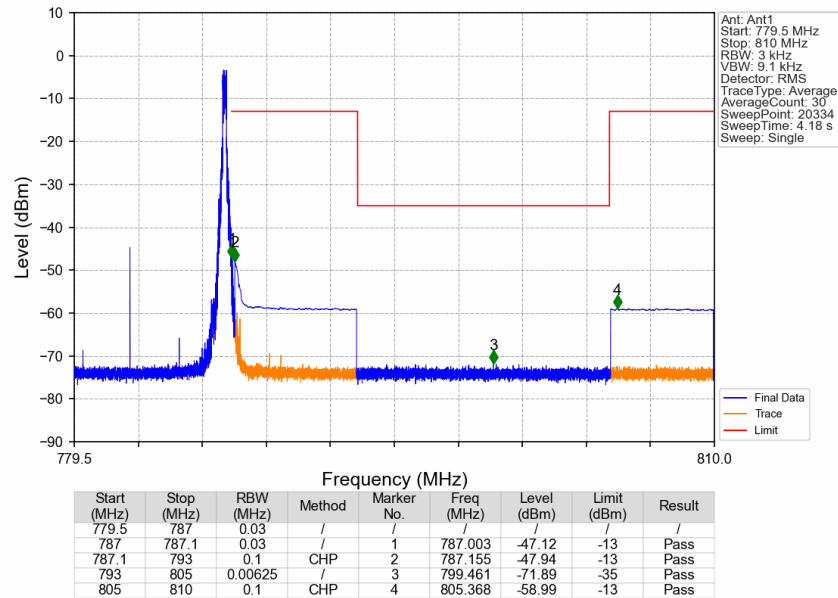


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Rev.: 01

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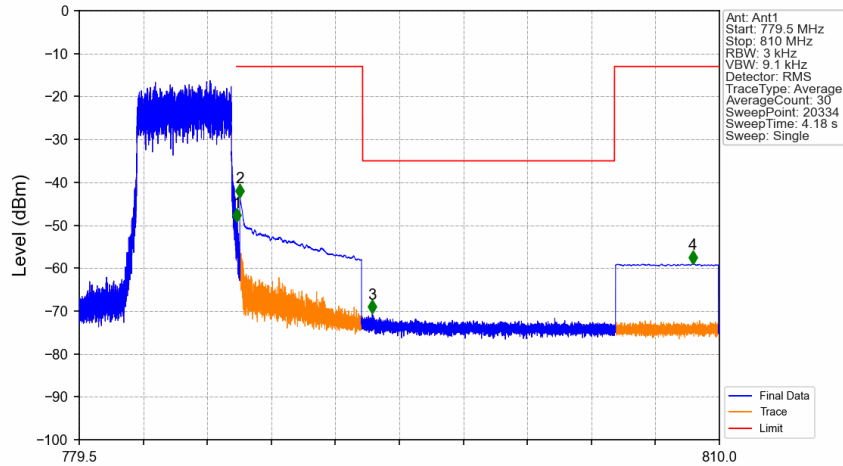
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Report No.: SZCR240200055101

Rev.: 01

Page: 70 of 88

Band13_5MHz_64QAM_HCH_784.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
779.5	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	1	787.002	-49.18	-13	Pass
787.1	793	0.1	CHP	2	787.150	-43.47	-13	Pass
793	805	0.00625	/	3	793.461	-70.62	-35	Pass
805	810	0.1	CHP	4	808.723	-59.02	-13	Pass



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Report No.: SZCR240200055101

Rev.: 01

Page: 71 of 88

5.2 B13_10MHz

5.2.1 Test Result

Band: 13 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	782	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	782	1	49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
16QAM	782	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	782	1	49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
64QAM	782	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	782	1	49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass



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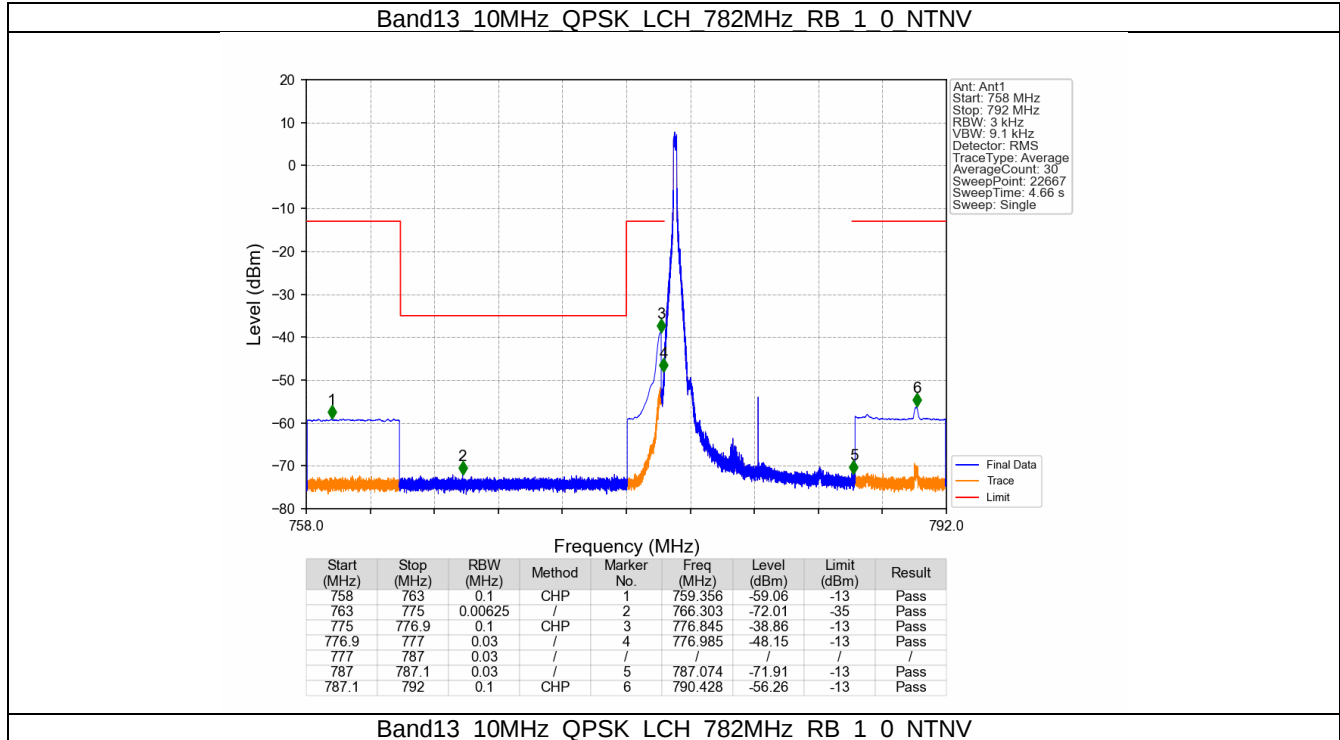
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Rev.: 01

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5.2.2 Test Graph



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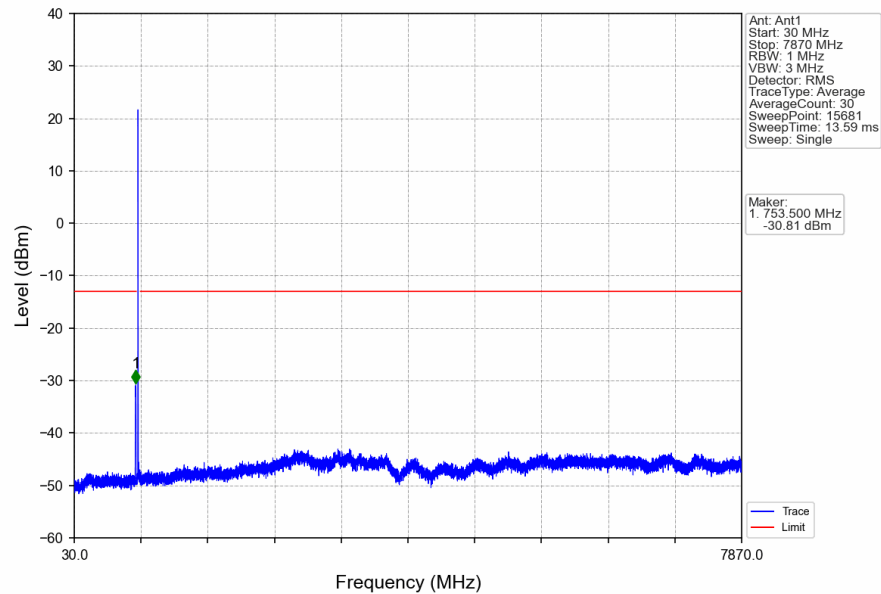


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Report No.: SZCR240200055101

Rev.: 01

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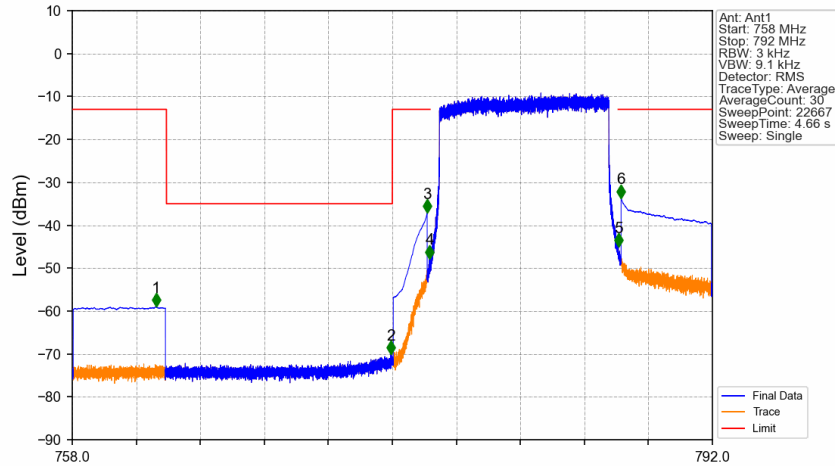
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Report No.: SZCR240200055101

Rev.: 01

Page: 74 of 88

Band13 10MHz QPSK LCH 782MHz RB 50 0 NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	762.443	-59.01	-13	Pass
763	775	0.00625	/	2	774.913	-70.06	-35	Pass
775	776.9	0.1	CHP	3	776.850	-37.17	-13	Pass
776.9	777	0.03	/	4	776.985	-47.77	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	5	787.003	-45.06	-13	Pass
787.1	792	0.1	CHP	6	787.150	-33.65	-13	Pass

Band13 10MHz QPSK HCH 782MHz RB 1 49 NTNV



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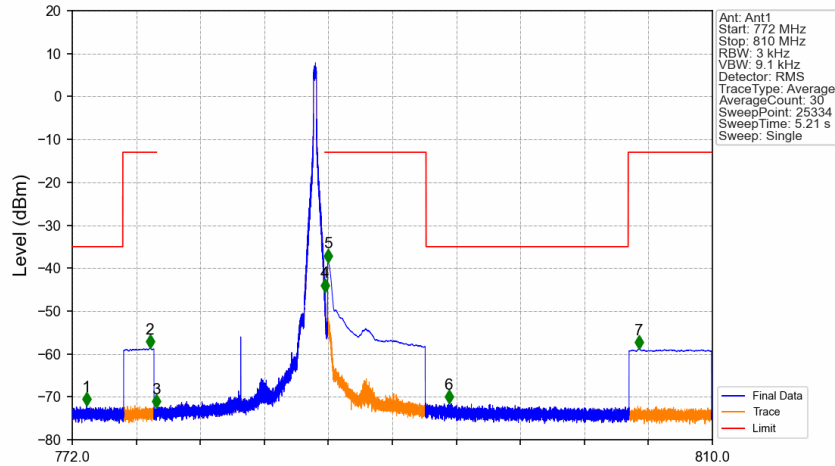


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Report No.: SZCR240200055101

Rev.: 01

Page: 75 of 88



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	/	1	772.842	-72.08	-35	Pass
775	776.9	0.1	CHP	2	776.611	-58.64	-13	Pass
776.9	777	0.03	/	3	777.000	-72.61	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	4	787.002	-45.54	-13	Pass
787.1	793	0.1	CHP	5	787.183	-38.65	-13	Pass
793	805	0.00625	/	6	794.349	-71.54	-35	Pass
805	810	0.1	CHP	7	805.635	-58.86	-13	Pass



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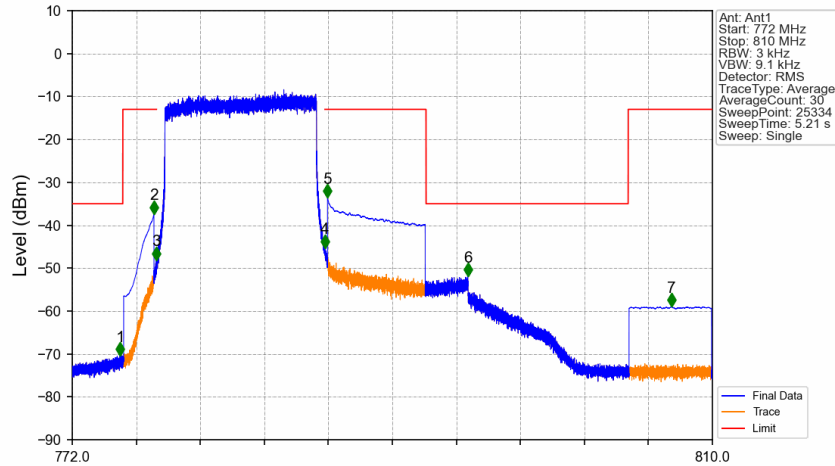
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Report No.: SZCR240200055101

Rev.: 01

Page: 76 of 88

Band13 10MHz QPSK HCH 782MHz RB 50 0 NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	/	1	774.835	-70.41	-35	Pass
775	776.9	0.1	CHP	2	776.850	-37.37	-13	Pass
776.9	777	0.03	/	3	776.983	-48.13	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	4	787.003	-45.32	-13	Pass
787.1	793	0.1	CHP	5	787.150	-33.64	-13	Pass
793	805	0.00625	/	6	795.475	-51.92	-35	Pass
805	810	0.1	CHP	7	807.553	-59.03	-13	Pass

Band13 10MHz 16QAM LCH 782MHz RB 1 0 NTNV



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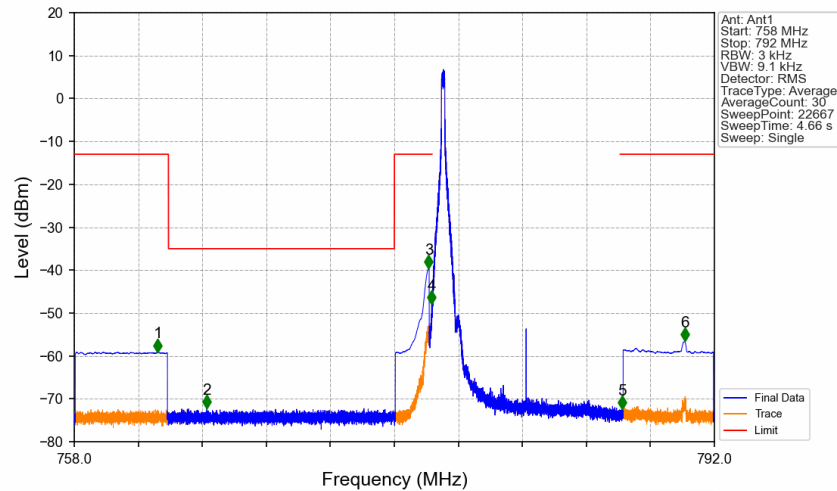


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Report No.: SZCR240200055101

Rev.: 01

Page: 77 of 88



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	762.439	-59.12	-13	Pass
763	775	0.00625	/	2	765.043	-72.25	-35	Pass
775	776.9	0.1	CHP	3	776.829	-39.69	-13	Pass
776.9	777	0.03	/	4	776.985	-47.91	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	5	787.078	-72.49	-13	Pass
787.1	792	0.1	CHP	6	790.420	-56.49	-13	Pass



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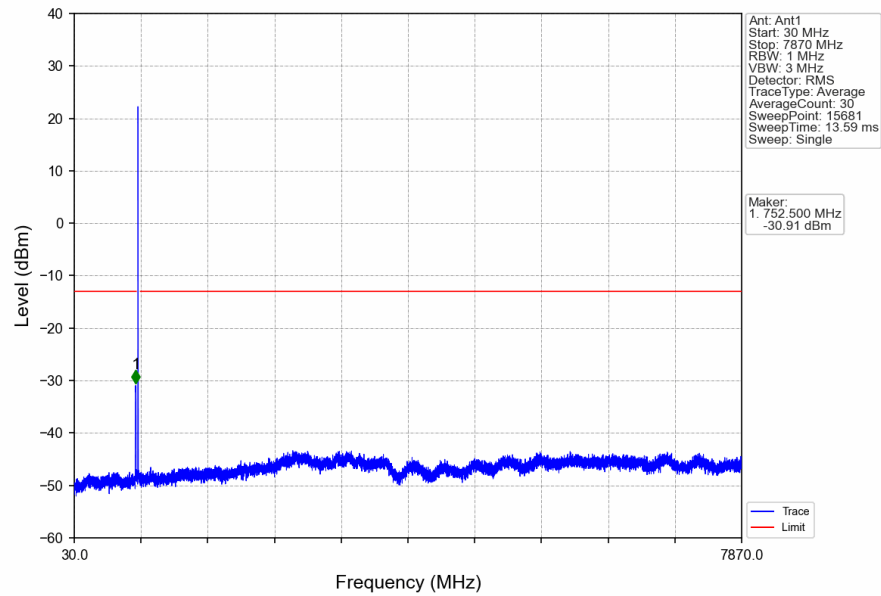
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Report No.: SZCR240200055101

Rev.: 01

Page: 78 of 88

Band13_10MHz_16QAM_LCH_782MHz_RB_1_0_NTNV



Band13_10MHz_16QAM_LCH_782MHz_RB_50_0_NTNV



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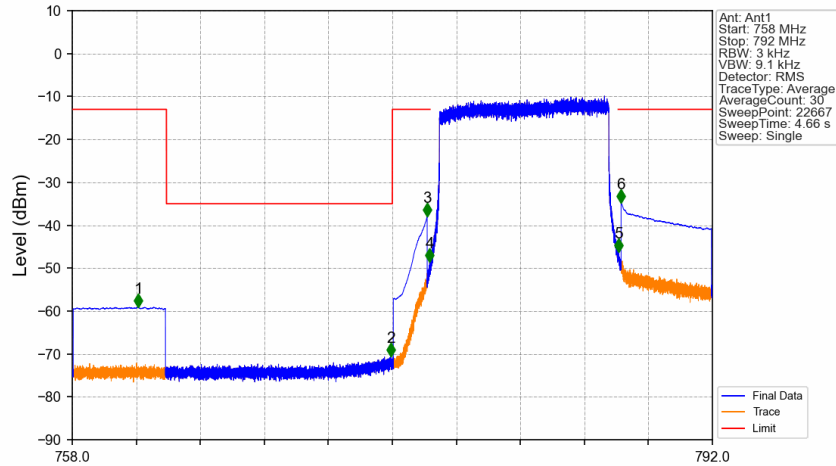


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Report No.: SZCR240200055101

Rev.: 01

Page: 79 of 88



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	761.507	-59.14	-13	Pass
763	775	0.00625	/	2	774.923	-70.66	-35	Pass
775	776.9	0.1	CHP	3	776.850	-38.01	-13	Pass
776.9	777	0.03	/	4	776.985	-48.56	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	5	787.000	-46.33	-13	Pass
787.1	792	0.1	CHP	6	787.150	-34.81	-13	Pass



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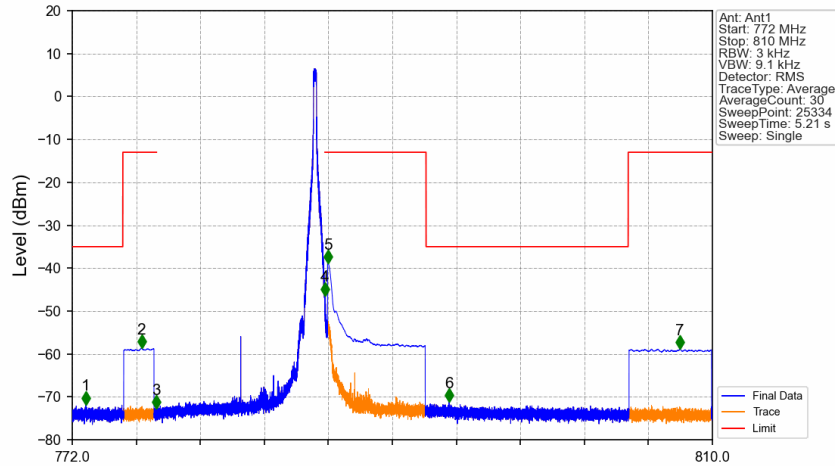
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Report No.: SZCR240200055101

Rev.: 01

Page: 80 of 88

Band13_10MHz_16QAM_HCH_782MHz_RB_1_49_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	/	1	772.806	-71.83	-35	Pass
775	776.9	0.1	CHP	2	776.113	-58.70	-13	Pass
776.9	777	0.03	/	3	776.994	-72.79	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	4	787.003	-46.39	-13	Pass
787.1	793	0.1	CHP	5	787.195	-38.92	-13	Pass
793	805	0.00625	/	6	794.368	-71.18	-35	Pass
805	810	0.1	CHP	7	808.062	-58.82	-13	Pass

Band13_10MHz_16QAM_HCH_782MHz_RB_50_0_NTNV



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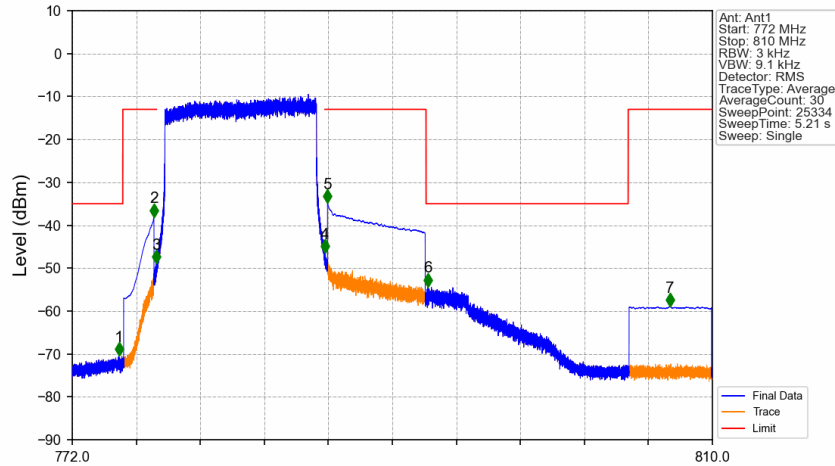


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Report No.: SZCR240200055101

Rev.: 01

Page: 81 of 88



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	/	1	774.766	-70.48	-35	Pass
775	776.9	0.1	CHP	2	776.850	-38.06	-13	Pass
776.9	777	0.03	/	3	776.983	-48.98	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	4	787.003	-46.41	-13	Pass
787.1	793	0.1	CHP	5	787.150	-34.83	-13	Pass
793	805	0.00625	/	6	793.105	-54.28	-35	Pass
805	810	0.1	CHP	7	807.498	-58.94	-13	Pass



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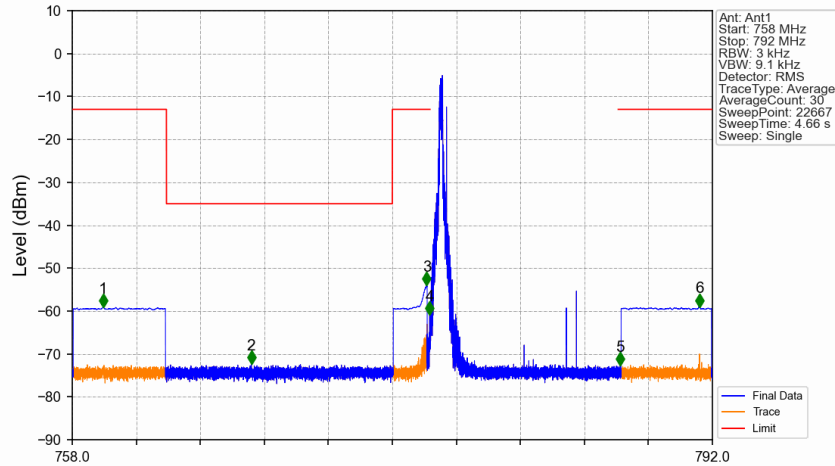
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Report No.: SZCR240200055101

Rev.: 01

Page: 82 of 88

Band13 10MHz 64QAM LCH 782MHz RB 1 0 NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	759.629	-59.14	-13	Pass
763	775	0.00625	/	2	767.510	-72.38	-35	Pass
775	776.9	0.1	CHP	3	776.829	-54.04	-13	Pass
776.9	777	0.03	/	4	776.983	-60.87	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	5	787.093	-72.76	-13	Pass
787.1	792	0.1	CHP	6	791.301	-59.05	-13	Pass

Band13 10MHz 64QAM LCH 782MHz RB 1 0 NTNV



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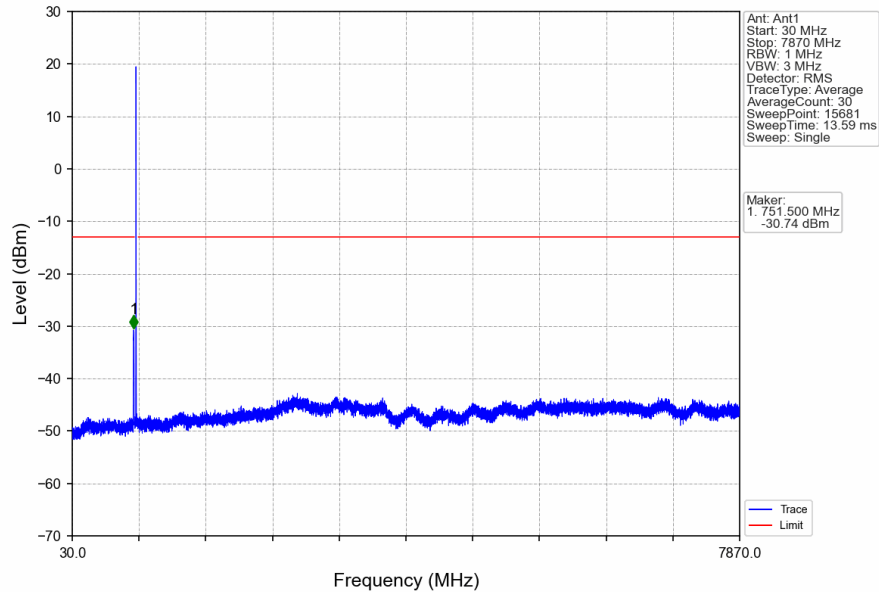


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Report No.: SZCR240200055101

Rev.: 01

Page: 83 of 88



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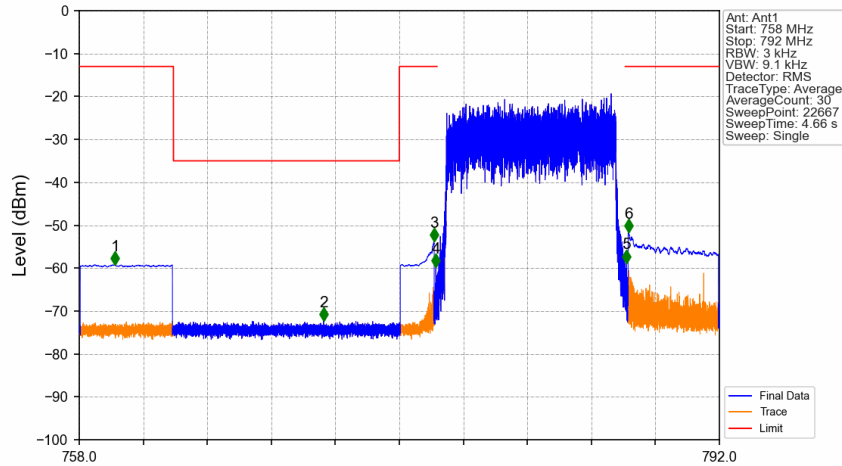
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Report No.: SZCR240200055101

Rev.: 01

Page: 84 of 88

Band13_10MHz_64QAM_LCH_782MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	759.899	-59.21	-13	Pass
763	775	0.00625	/	2	770.974	-72.31	-35	Pass
775	776.9	0.1	CHP	3	776.832	-53.79	-13	Pass
776.9	777	0.03	/	4	776.941	-59.81	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	5	787.072	-58.84	-13	Pass
787.1	792	0.1	CHP	6	787.182	-51.62	-13	Pass

Band13_10MHz_64QAM_HCH_782MHz_RB_1_49_NTNV



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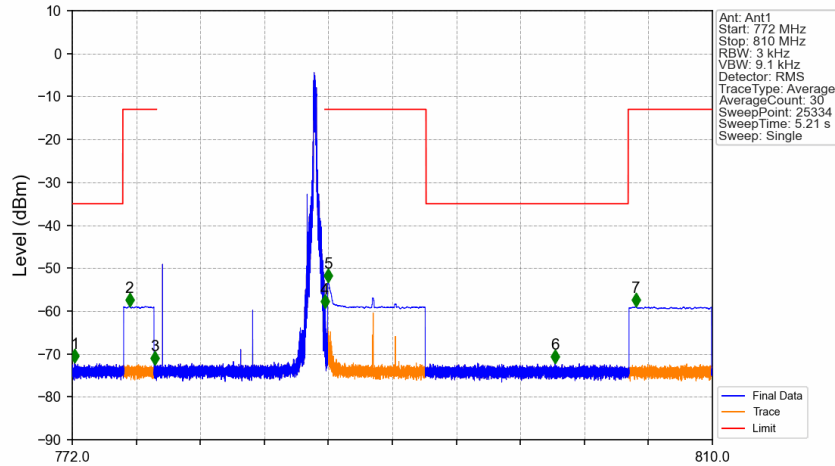


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Report No.: SZCR240200055101

Rev.: 01

Page: 85 of 88



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	/	1	772.144	-72.04	-35	Pass
775	776.9	0.1	CHP	2	775.393	-58.96	-13	Pass
776.9	777	0.03	/	3	776.908	-72.52	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	4	787.002	-59.38	-13	Pass
787.1	793	0.1	CHP	5	787.197	-53.29	-13	Pass
793	805	0.00625	/	6	800.662	-72.13	-35	Pass
805	810	0.1	CHP	7	805.452	-58.96	-13	Pass



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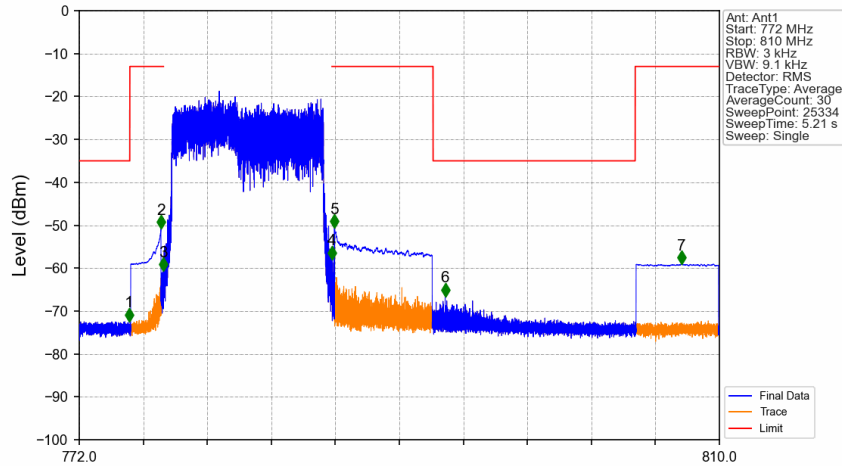
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Report No.: SZCR240200055101

Rev.: 01

Page: 86 of 88

Band13_10MHz_64QAM_HCH_782MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	/	1	774.945	-72.41	-35	Pass
775	776.9	0.1	CHP	2	776.850	-50.77	-13	Pass
776.9	777	0.03	/	3	776.973	-60.63	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	4	787.005	-57.94	-13	Pass
787.1	793	0.1	CHP	5	787.150	-50.58	-13	Pass
793	805	0.00625	/	6	793.719	-66.60	-35	Pass
805	810	0.1	CHP	7	807.766	-59.03	-13	Pass



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中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 sgs.china@sgs.com



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Report No.: SZCR240200055101

Rev.: 01

Page: 87 of 88

6. Field Strength of Spurious Radiation

LTE Band 13-Low channel, Modulation: QPSK, Bandwidth:5MHz, 1RB#0

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1554.5	-64.75	-13	-51.75	-68.635	2	5.88	Horizontal	Pass
2331.75	-63.74	-13	-50.74	-63.86	2.35	4.62	Horizontal	Pass
3109	-57	-13	-44	-58.81	2.96	6.92	Horizontal	Pass
1554.5	-64.51	-13	-51.51	-66.245	2	5.88	Vertical	Pass
2331.75	-63.57	-13	-50.57	-63.69	2.35	4.62	Vertical	Pass
3109	-56.57	-13	-43.57	-58.38	2.96	6.92	Vertical	Pass

LTE Band 13-Middle channel, Modulation: QPSK, Bandwidth:5MHz, 1RB#0

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1559.5	-65.61	-40	-25.61	-69.495	2	5.88	Horizontal	Pass
2339.25	-62.63	-13	-49.63	-62.75	2.35	4.62	Horizontal	Pass
3119	-56.92	-13	-43.92	-58.73	2.96	6.92	Horizontal	Pass
1559.5	-65.15	-40	-25.15	-66.885	2	5.88	Vertical	Pass
2339.25	-62.08	-13	-49.08	-62.2	2.35	4.62	Vertical	Pass
3119	-57.67	-13	-44.67	-59.48	2.96	6.92	Vertical	Pass

LTE Band 13-High channel, Modulation: QPSK, Bandwidth:5MHz, 1RB#0

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1564.5	-65.13	-40	-25.13	-69.015	2	5.88	Horizontal	Pass
2346.75	-62.98	-13	-49.98	-63.1	2.35	4.62	Horizontal	Pass
3129	-55.23	-13	-42.23	-57.04	2.96	6.92	Horizontal	Pass
1564.5	-65.17	-40	-25.17	-66.905	2	5.88	Vertical	Pass
2346.75	-63.73	-13	-50.73	-63.85	2.35	4.62	Vertical	Pass
3129	-55.6	-13	-42.6	-57.41	2.96	6.92	Vertical	Pass



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Report No.: SZCR240200055101

Rev.: 01

Page: 88 of 88

LTE Band 13-Middle channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1555	-65.54	-13	-52.54	-69.425	2	5.88	Horizontal	Pass
2332.5	-62.92	-13	-49.92	-63.04	2.35	4.62	Horizontal	Pass
3110	-57.17	-13	-44.17	-58.98	2.96	6.92	Horizontal	Pass
1555	-64.93	-13	-51.93	-66.665	2	5.88	Vertical	Pass
2332.5	-62.51	-13	-49.51	-62.63	2.35	4.62	Vertical	Pass
3110	-56.51	-13	-43.51	-58.32	2.96	6.92	Vertical	Pass

---End of Attachment---



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