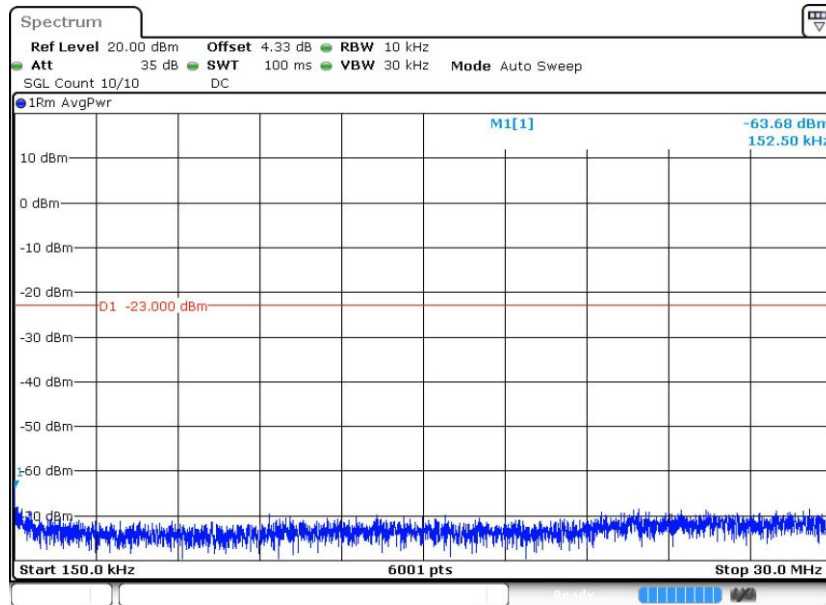




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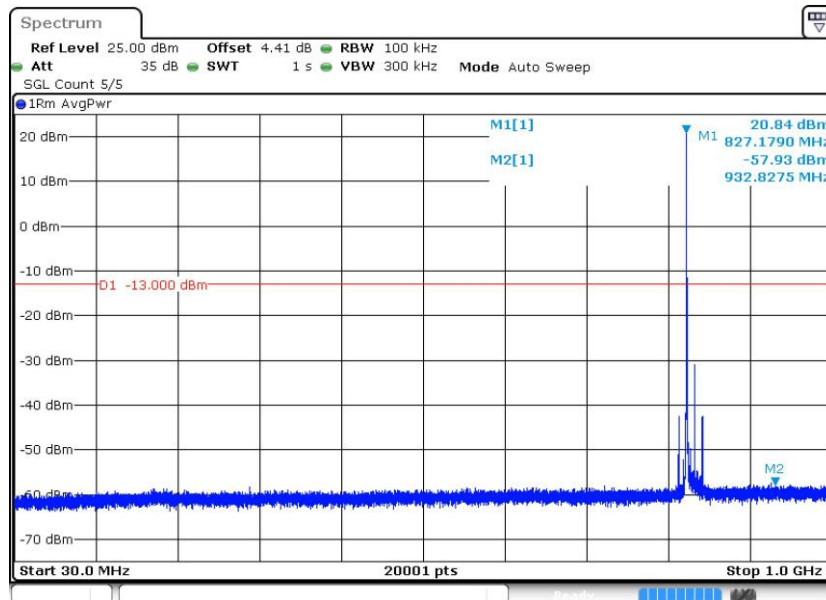
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5-5-10MHz-10MHz-QPSK-QPSK-20476-20575-1RB#0-0RB#0-0.15~30MHz



Date: 28 DEC. 2023 19:12:58

5-5-10MHz-10MHz-QPSK-QPSK-20476-20575-1RB#0-0RB#0-30~1000MHz



Date: 28 DEC. 2023 19:13:07



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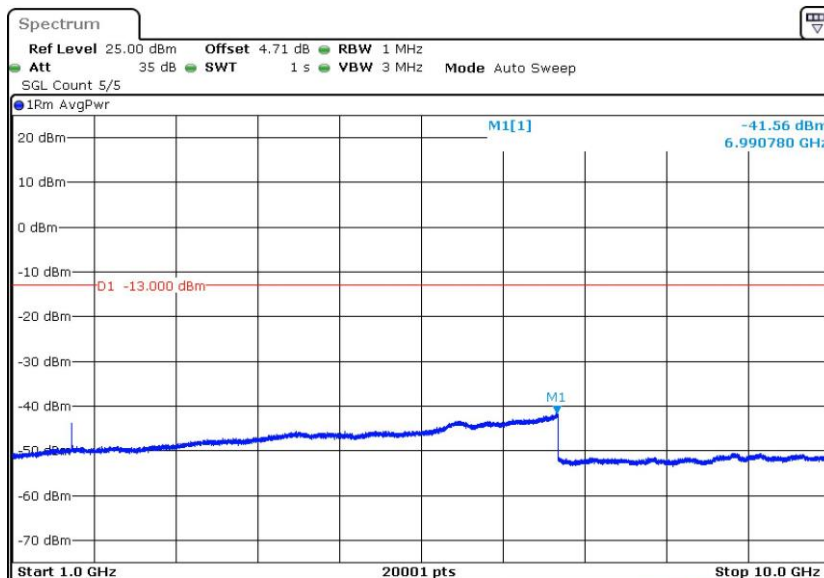
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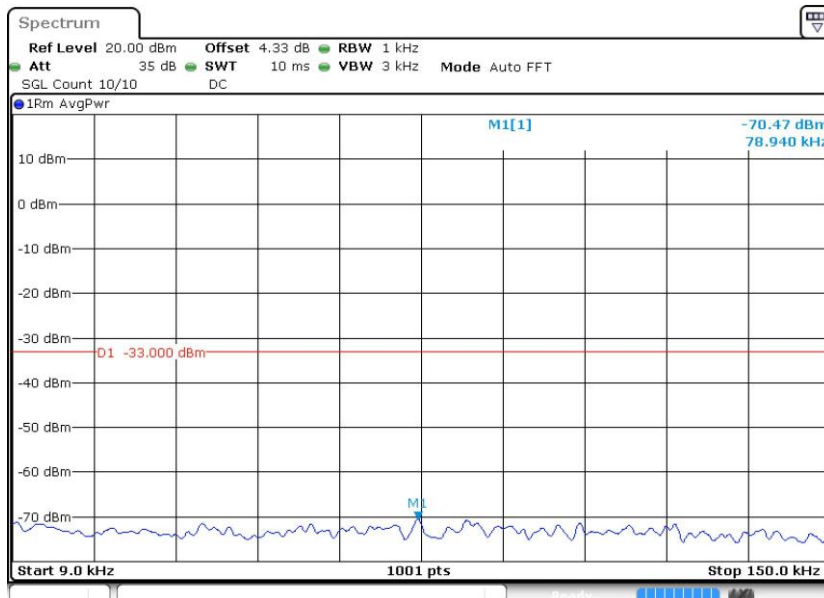
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5-5-10MHz-10MHz-QPSK-QPSK-20476-20575-1RB#0-0RB#0-1000~10000MHz



Date: 28 DEC. 2023 19:13:16

5-5-10MHz-10MHz-QPSK-QPSK-20501-20600-1RB#0-0RB#0-0.009~0.15MHz



Date: 28 DEC. 2023 19:14:05



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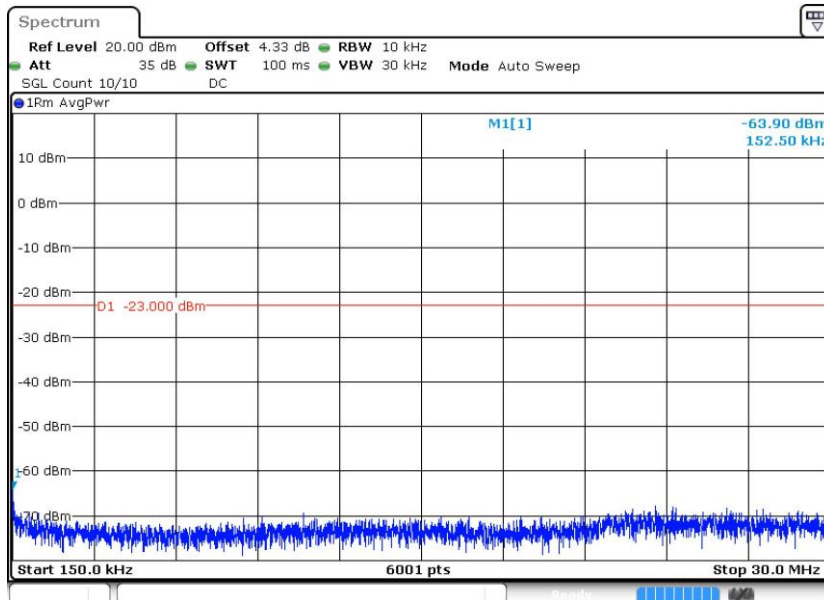
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Report No.: ZEWA2312000155RG01

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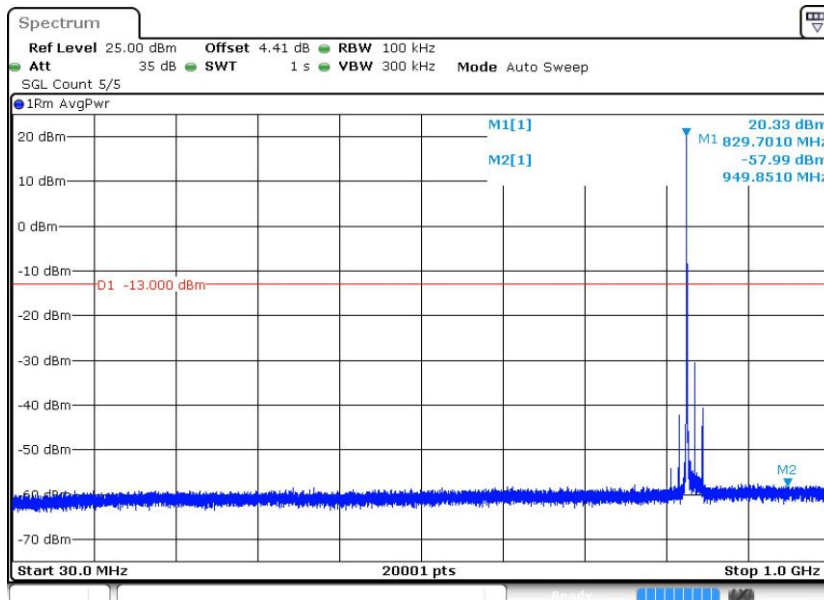
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5-5-10MHz-10MHz-QPSK-QPSK-20501-20600-1RB#0-0RB#0-0.15~30MHz



Date: 28 DEC. 2023 19:14:12

5-5-10MHz-10MHz-QPSK-QPSK-20501-20600-1RB#0-0RB#0-30~1000MHz



Date: 28 DEC. 2023 19:14:21



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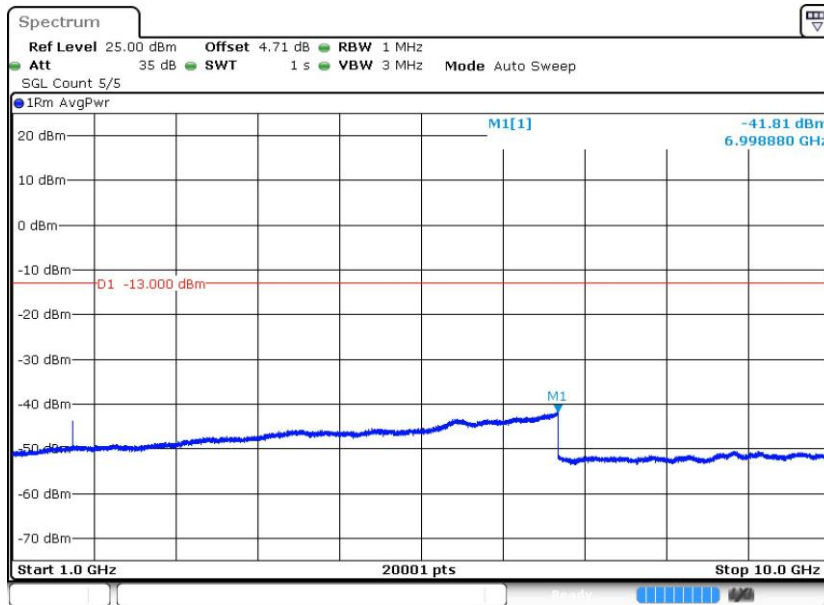
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5-5-10MHz-10MHz-QPSK-QPSK-20501-20600-1RB#0-0RB#0-1000~10000MHz



Date: 28 DEC 2023 19:14:30

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Shenzhen Branch
Inspection & Testing Services
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Field Strength of Spurious Radiation

Test Band = 5B_ TM1

Test Channel = Low channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1649.0000	46.13	24.90	-48.85	-73.08	-13.00	60.08	Horizontal
2	2473.5000	45.39	27.34	-47.88	-70.41	-13.00	57.41	Horizontal
3	3298.0000	44.64	28.66	-47.15	-69.11	-13.00	56.11	Horizontal
4	4122.5000	43.81	29.67	-47.50	-69.28	-13.00	56.28	Horizontal
5	4947.0000	44.20	31.27	-46.98	-66.77	-13.00	53.77	Horizontal
6	5771.5000	44.17	32.49	-46.96	-65.56	-13.00	52.56	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1649.0000	46.08	24.90	-48.85	-73.13	-13.00	60.13	Vertical
2	2473.5000	44.45	27.34	-47.88	-71.35	-13.00	58.35	Vertical
3	3298.0000	44.36	28.66	-47.15	-69.39	-13.00	56.39	Vertical
4	4122.5000	44.04	29.67	-47.50	-69.05	-13.00	56.05	Vertical
5	4947.0000	44.26	31.27	-46.98	-66.71	-13.00	53.71	Vertical
6	5771.5000	44.34	32.49	-46.96	-65.39	-13.00	52.39	Vertical



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Test Band = 5B_ TM1
Test Channel = Mid channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1654.2000	45.50	24.91	-48.84	-73.69	-13.00	60.69	Horizontal
2	2481.3000	44.36	27.36	-47.85	-71.39	-13.00	58.39	Horizontal
3	3308.4000	43.97	28.66	-47.17	-69.80	-13.00	56.80	Horizontal
4	4135.5000	44.24	29.69	-47.43	-68.76	-13.00	55.76	Horizontal
5	4962.6000	44.57	31.31	-46.97	-66.35	-13.00	53.35	Horizontal
6	5789.7000	44.10	32.48	-46.99	-65.67	-13.00	52.67	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1654.2000	45.95	24.91	-48.84	-73.24	-13.00	60.24	Vertical
2	2481.3000	44.75	27.36	-47.85	-71.00	-13.00	58.00	Vertical
3	3308.4000	44.27	28.66	-47.17	-69.50	-13.00	56.50	Vertical
4	4135.5000	44.18	29.69	-47.43	-68.82	-13.00	55.82	Vertical
5	4962.6000	44.11	31.31	-46.97	-66.81	-13.00	53.81	Vertical
6	5789.7000	44.31	32.48	-46.99	-65.46	-13.00	52.46	Vertical



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Test Band = 5B_ TM1
Test Channel = High channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1659.2000	46.15	24.92	-48.83	-73.02	-13.00	60.02	Horizontal
2	2488.8000	44.94	27.37	-47.81	-70.76	-13.00	57.76	Horizontal
3	3318.4000	44.60	28.66	-47.19	-69.19	-13.00	56.19	Horizontal
4	4148.0000	44.06	29.71	-47.37	-68.86	-13.00	55.86	Horizontal
5	4977.6000	44.44	31.35	-46.96	-66.43	-13.00	53.43	Horizontal
6	5807.2000	44.36	32.48	-46.94	-65.36	-13.00	52.36	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1659.2000	45.80	24.92	-48.83	-73.37	-13.00	60.37	Vertical
2	2488.8000	44.63	27.37	-47.81	-71.07	-13.00	58.07	Vertical
3	3318.4000	44.49	28.66	-47.19	-69.30	-13.00	56.30	Vertical
4	4148.0000	44.03	29.71	-47.37	-68.89	-13.00	55.89	Vertical
5	4977.6000	44.25	31.35	-46.96	-66.62	-13.00	53.62	Vertical
6	5807.2000	44.32	32.48	-46.94	-65.40	-13.00	52.40	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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Frequency Stability

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
5-5	10MHz -10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	VH	NT	2.60	0.003127	±2.5	PASS
5-5	10MHz -10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	VL	NT	1.80	0.002165	±2.5	PASS
5-5	10MHz -10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	VN	NT	1.60	0.001924	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
5-5	10MHz -10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	NV	50	4.50	0.005411	±2.5	PASS
5-5	10MHz -10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	NV	40	5.10	0.006133	±2.5	PASS
5-5	10MHz -10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	NV	30	2.80	0.003367	±2.5	PASS
5-5	10MHz -10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	NV	20	5.00	0.006013	±2.5	PASS
5-5	10MHz -10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	NV	10	4.20	0.005051	±2.5	PASS
5-5	10MHz -10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	NV	0	2.10	0.002525	±2.5	PASS
5-5	10MHz -10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	NV	-10	4.80	0.005772	±2.5	PASS
5-5	10MHz -10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	NV	-20	2.40	0.002886	±2.5	PASS
5-5	10MHz -10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	NV	-30	3.30	0.003968	±2.5	PASS

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