

Report No.: SEWM2311000454RG01

Rev.: 01

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# Appendix B.19

## LTE CA\_38C



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## Effective (Isotropic) Radiated Power Output Data

### Test Result ANT3

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
38-38	15MHz-15MHz	QPSK-QPSK	37825-37975	1RB#0-0RB#0	23.63	22.43	33.00	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37825-37975	75RB#0-75RB#0	22.55	21.35	33.00	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37925-38075	1RB#0-0RB#0	23.58	22.38	33.00	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37925-38075	75RB#0-75RB#0	22.57	21.37	33.00	PASS
38-38	15MHz-15MHz	QPSK-QPSK	38025-38175	1RB#0-0RB#0	23.66	22.46	33.00	PASS
38-38	15MHz-15MHz	QPSK-QPSK	38025-38175	75RB#0-75RB#0	22.62	21.42	33.00	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37825-37975	1RB#0-0RB#0	23.37	22.17	33.00	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37825-37975	75RB#0-75RB#0	21.57	20.37	33.00	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37925-38075	1RB#0-0RB#0	23.35	22.15	33.00	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37925-38075	75RB#0-75RB#0	21.6	20.4	33.00	PASS
38-38	15MHz-15MHz	16QAM-16QAM	38025-38175	1RB#0-0RB#0	23.4	22.2	33.00	PASS
38-38	15MHz-15MHz	16QAM-16QAM	38025-38175	75RB#0-75RB#0	21.62	20.42	33.00	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37825-37975	1RB#0-0RB#0	22.15	20.95	33.00	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37825-37975	75RB#0-75RB#0	21.58	20.38	33.00	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37925-38075	1RB#0-0RB#0	22.16	20.96	33.00	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37925-38075	75RB#0-75RB#0	21.62	20.42	33.00	PASS
38-38	15MHz-15MHz	64QAM-64QAM	38025-38175	1RB#0-0RB#0	22.22	21.02	33.00	PASS
38-38	15MHz-15MHz	64QAM-64QAM	38025-38175	75RB#0-75RB#0	21.62	20.42	33.00	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37850-38048	100RB#0-100RB#0	22.56	21.36	33.00	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37850-38048	1RB#0-0RB#0	23.72	22.52	33.00	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	22.56	21.36	33.00	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	1RB#0-0RB#0	23.56	22.36	33.00	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	100RB#0-100RB#0	22.57	21.37	33.00	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	1RB#0-0RB#0	-25.35	-26.55	33.00	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37850-38048	100RB#0-100RB#0	21.58	20.38	33.00	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37850-38048	1RB#0-0RB#0	23.35	22.15	33.00	PASS



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38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	100RB#0-100RB#0	21.56	20.36	33.00	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	1RB#0-0RB#0	23.31	22.11	33.00	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37952-38150	100RB#0-100RB#0	21.6	20.4	33.00	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37952-38150	1RB#0-0RB#0	23.31	22.11	33.00	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37850-38048	100RB#0-100RB#0	21.56	20.36	33.00	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37850-38048	1RB#0-0RB#0	22.28	21.08	33.00	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37901-38099	100RB#0-100RB#0	21.56	20.36	33.00	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37901-38099	1RB#0-0RB#0	22.16	20.96	33.00	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37952-38150	100RB#0-100RB#0	21.6	20.4	33.00	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37952-38150	1RB#0-0RB#0	22.11	20.91	33.00	PASS



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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
38-38	15MHz-15MHz	QPSK-QPSK	37925-38075	75RB#0-75RB#0	28.206	30.18	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37925-38075	75RB#0-75RB#0	28.236	30.12	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37925-38075	75RB#0-75RB#0	28.164	30.24	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	37.555	40.48	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	100RB#0-100RB#0	37.536	40.32	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37901-38099	100RB#0-100RB#0	37.542	40.32	PASS



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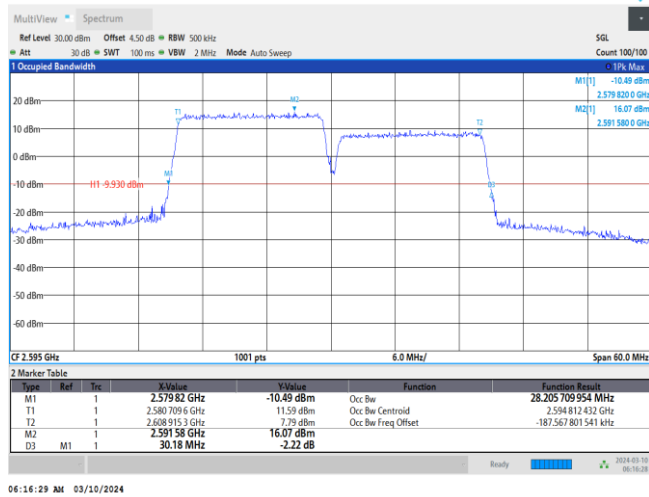
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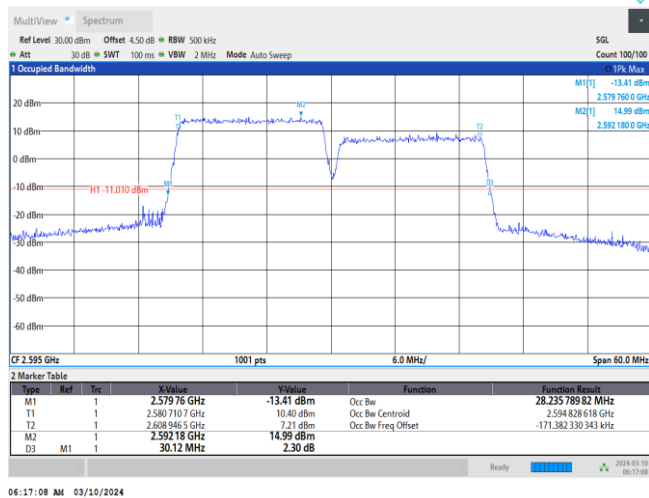
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Test Graphs

38-38-15MHz-15MHz-QPSK-QPSK-37925-38075-75RB#0-75RB#0



38-38-15MHz-15MHz-16QAM-16QAM-37925-38075-75RB#0-75RB#0



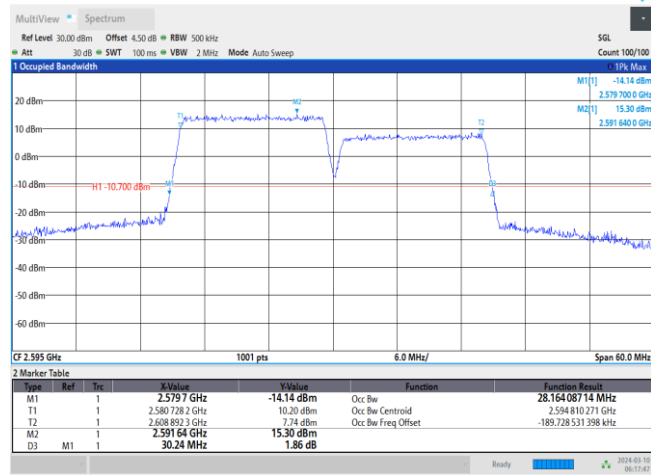
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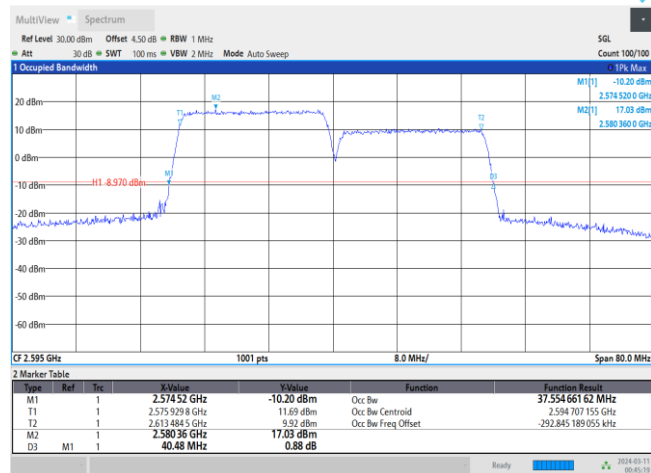


38-38-15MHz-15MHz-64QAM-64QAM-37925-38075-75RB#0-75RB#0



06:17:49 AM 03/10/2024

38-38-20MHz-20MHz-QPSK-QPSK-37901-38099-100RB#0-100RB#0



12:45:20 AM 03/11/2024

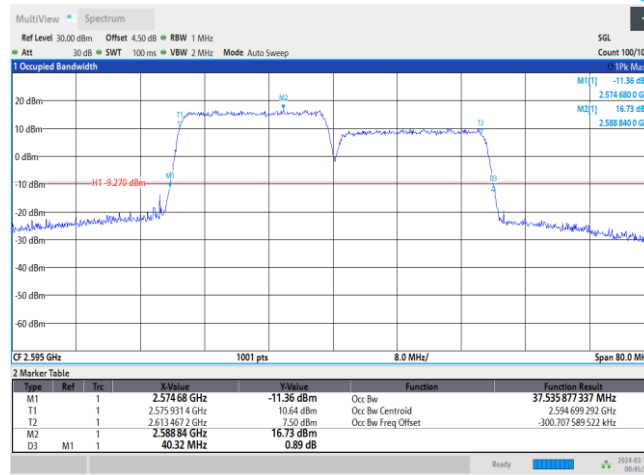


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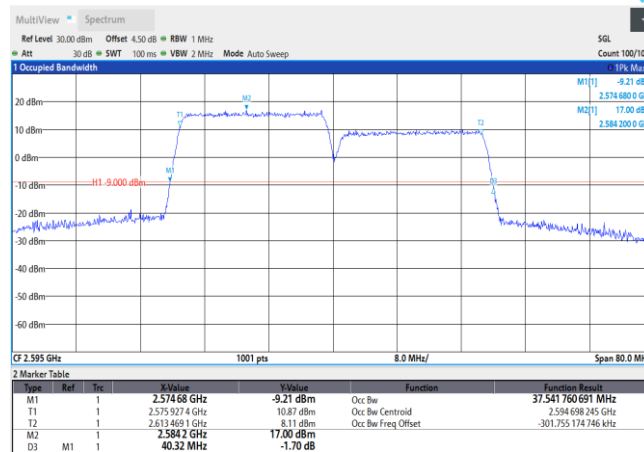
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38-38-20MHz-20MHz-16QAM-16QAM-37901-38099-100RB#0-100RB#0



12:45:59 AM 03/11/2024

38-38-20MHz-20MHz-64QAM-64QAM-37901-38099-100RB#0-100RB#0



12:46:38 AM 03/11/2024



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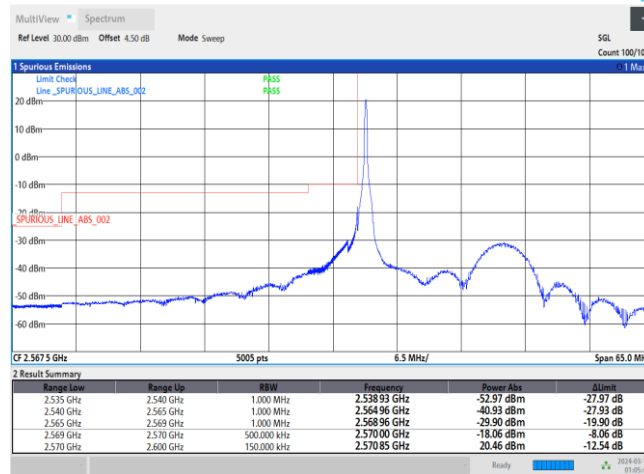
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## Band Edge

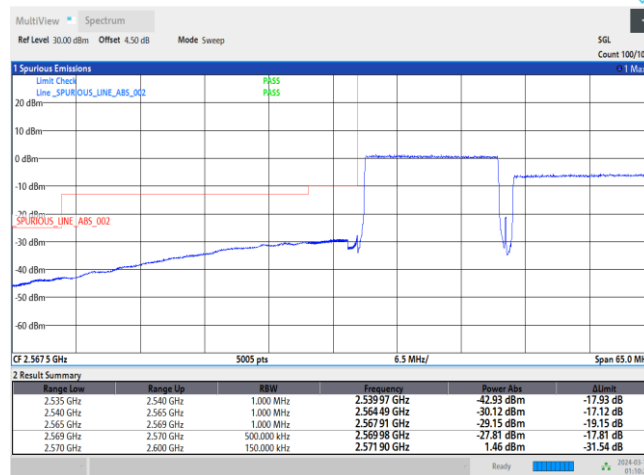
## Test Graphs

38-38-15MHz-15MHz-QPSK-QPSK-37825-37975-1RB#0-0RB#0



01:05:46 AM 03/11/2024

38-38-15MHz-15MHz-QPSK-QPSK-37825-37975-75RB#0-75RB#0



01:10:29 AM 03/11/2024



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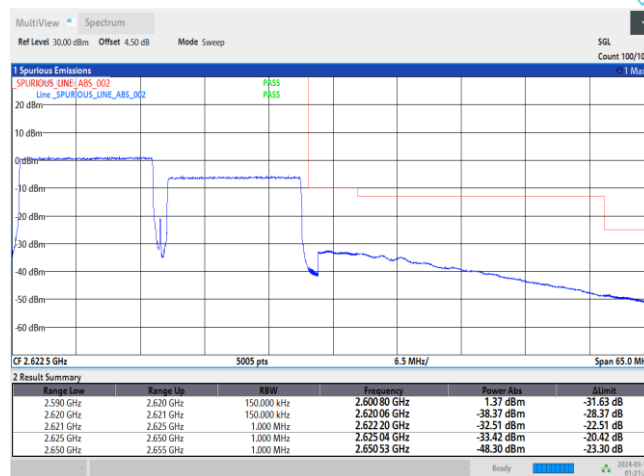


38-38-15MHz-15MHz-QPSK-QPSK-38025-38175-0RB#0-1RB#74



01:16:47 AM 03/11/2024

38-38-15MHz-15MHz-QPSK-QPSK-38025-38175-75RB#0-75RB#0



01:21:29 AM 03/11/2024



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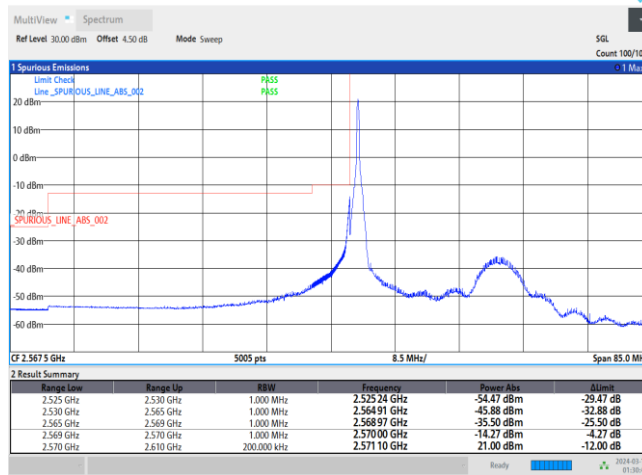
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38-38-20MHz-20MHz-QPSK-QPSK-37850-38048-100RB#0-100RB#0



01:35:26 AM 03/11/2024

38-38-20MHz-20MHz-QPSK-QPSK-37850-38048-1RB#0-0RB#0



01:30:43 AM 03/11/2024



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38-38-20MHz-20MHz-QPSK-QPSK-37952-38150-0RB#0-1RB#99



01:42:26 AM 03/11/2024

38-38-20MHz-20MHz-QPSK-QPSK-37952-38150-100RB#0-100RB#0



01:47:08 AM 03/11/2024



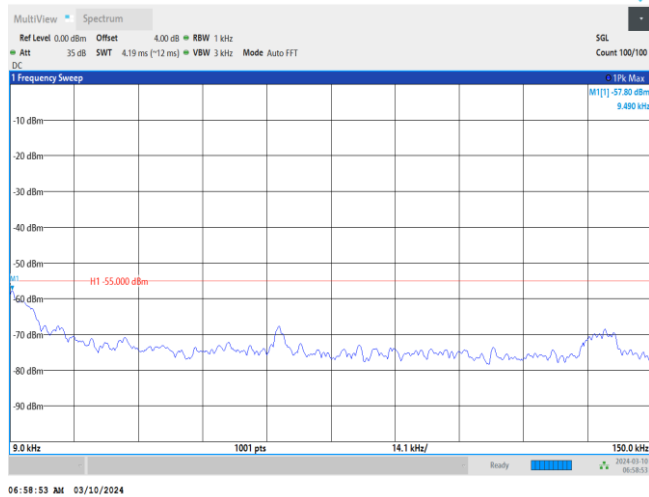
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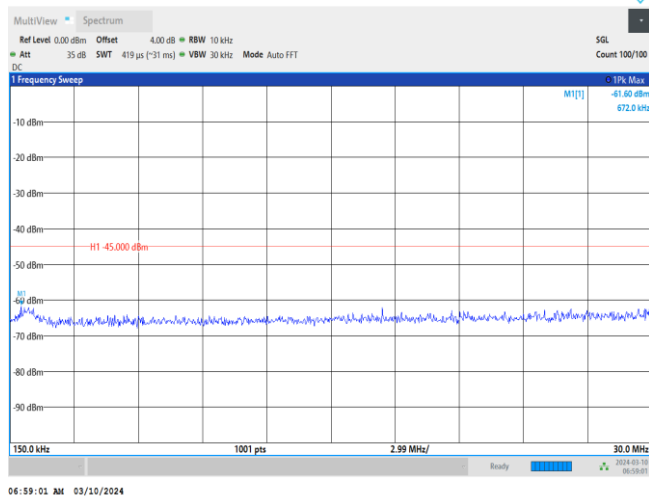
## Conducted Spurious Emission

### Test Graphs

38-38-20MHz-20MHz-QPSK-QPSK-37850-38048-1RB#0-0RB#0-0.009~0.15MHz



38-38-20MHz-20MHz-QPSK-QPSK-37850-38048-1RB#0-0RB#0-0.15~30MHz



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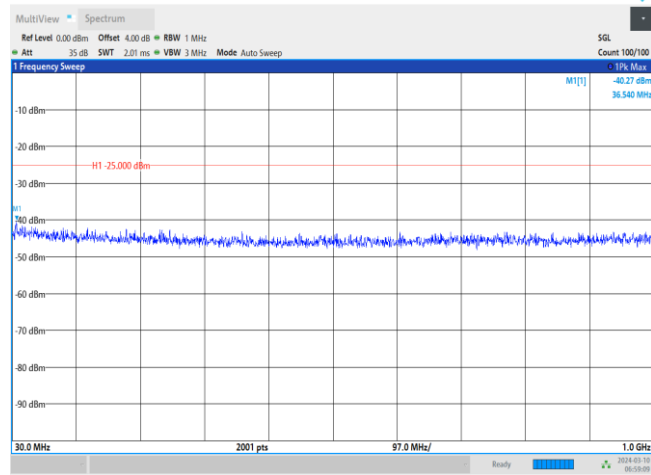
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.  
Wireless Laboratories

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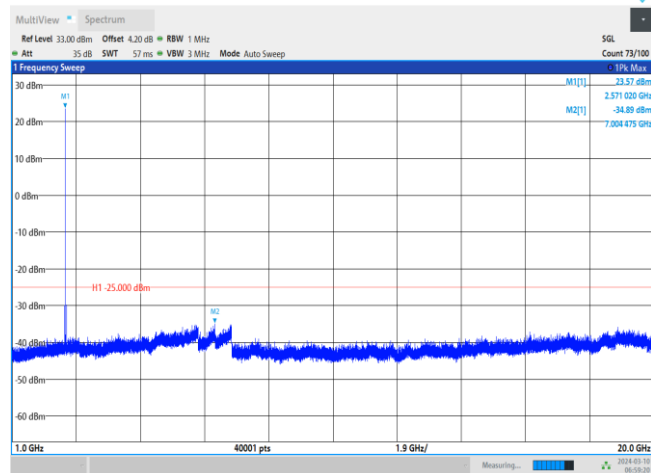
Member of the SGS Group (SGS SA)

38-38-20MHz-20MHz-QPSK-QPSK-37850-38048-1RB#0-0RB#0-30~1000MHz



06:59:09 AM 03/10/2024

38-38-20MHz-20MHz-QPSK-QPSK-37850-38048-1RB#0-0RB#0-1000~20000MHz



06:59:20 AM 03/10/2024



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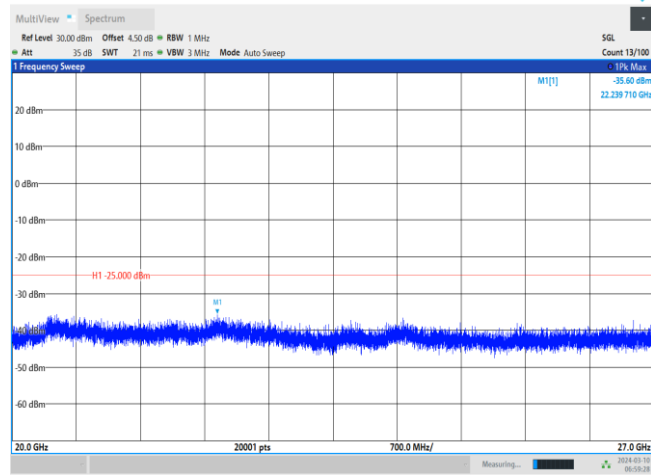
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38-38-20MHz-20MHz-QPSK-QPSK-37850-38048-1RB#0-0RB#0-20000~27000MHz



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### Field Strength of Spurious Radiation

Test Band = LTE Band 38CA\_ TM1

Test Channel = Low Channel \_ Worse ANT

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5142.18	44.95	-47.85	31.84	-66.32	-25.00	41.32	Horizontal
2	7713.27	44.31	-45.17	36.54	-59.58	-25.00	34.58	Horizontal
3	10284.36	36.53	-41.30	38.76	-61.28	-25.00	32.48	Horizontal
4	12855.45	39.94	-39.37	38.69	-56.01	-25.00	31.01	Horizontal
5	15426.54	36.08	-37.45	39.29	-57.34	-25.00	32.34	Horizontal
6	17997.63	34.95	-36.60	45.29	-51.62	-25.00	26.62	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4384	46.92	-48.06	30.09	-66.31	-25.00	41.31	Vertical
2	7713.27	43.53	-45.17	36.54	-60.36	-25.00	35.36	Vertical
3	10284.36	39.55	-41.30	38.76	-58.26	-25.00	33.26	Vertical
4	12855.45	39.69	-39.37	38.69	-56.26	-25.00	31.26	Vertical
5	15426.54	36.13	-37.45	39.29	-57.29	-25.00	32.29	Vertical
6	17997.63	35.10	-36.60	45.29	-51.47	-25.00	26.47	Vertical



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**Test Band = LTE Band 38CA\_ TM1**  
**Test Channel = Mid Channel \_ Worse ANT**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5142.18	44.82	-47.85	31.84	-66.45	-25.00	41.45	Horizontal
2	7713.27	36.01	-45.17	36.54	-67.88	-25.00	35.05	Horizontal
3	10284.36	36.70	-41.30	38.76	-61.11	-25.00	32.00	Horizontal
4	12855.45	35.02	-39.37	38.69	-60.93	-25.00	30.68	Horizontal
5	15426.54	36.09	-37.45	39.29	-57.33	-25.00	32.33	Horizontal
6	17997.63	31.07	-36.60	45.29	-55.50	-25.00	26.09	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3943	47.03	-48.24	29.32	-67.15	-25.00	42.15	Vertical
2	5152.38	45.59	-47.86	31.87	-65.66	-25.00	40.66	Vertical
3	7728.57	42.00	-45.12	36.53	-61.86	-25.00	34.90	Vertical
4	10304.76	38.23	-41.15	38.77	-59.41	-25.00	32.60	Vertical
5	12880.95	38.10	-39.41	38.67	-57.89	-25.00	30.45	Vertical
6	15457.14	36.33	-37.71	39.23	-57.41	-25.00	32.41	Vertical



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**Test Band = LTE Band 38CA\_ TM1**  
**Test Channel = High Channel \_ Worse ANT**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3592.5	47.00	-48.28	28.83	-67.71	-25.00	42.71	Horizontal
2	5162.58	45.89	-47.86	31.89	-65.34	-25.00	40.34	Horizontal
3	7743.87	44.13	-45.08	36.51	-59.70	-25.00	34.70	Horizontal
4	10325.16	40.14	-41.17	38.79	-57.50	-25.00	32.50	Horizontal
5	12906.45	39.62	-39.43	38.66	-56.41	-25.00	31.41	Horizontal
6	15487.74	36.07	-37.97	39.17	-57.99	-25.00	32.99	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3594	47.10	-48.28	28.83	-67.61	-25.00	42.61	Vertical
2	5162.58	45.14	-47.86	31.89	-66.09	-25.00	41.09	Vertical
3	7743.87	43.53	-45.08	36.51	-60.30	-25.00	35.30	Vertical
4	10325.16	39.65	-41.17	38.79	-57.99	-25.00	32.99	Vertical
5	12906.45	39.15	-39.43	38.66	-56.88	-25.00	31.88	Vertical
6	15487.74	35.95	-37.97	39.17	-58.11	-25.00	33.11	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

2) All antennas of RSE are tested, and only the worst data is presented.



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## Frequency Stability

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	VH	NT	36.90	0.014274	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	VL	NT	40.60	0.015705	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	VN	NT	41.00	0.015860	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	-30	39.10	0.015125	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	-20	41.10	0.015899	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	-10	39.20	0.015164	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	0	40.40	0.015628	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	10	39.70	0.015357	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	20	40.50	0.015667	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	30	38.50	0.014893	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	40	38.70	0.014970	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	50	32.30	0.01365	PASS

---End of Attachment---



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