

Report No.: SEWM2309000386RG01

Rev.: 01

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Appendix B.12

LTE CA_38C



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Effective (Isotropic) Radiated Power Output Data

Test Result

ANT5

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	24.83	23.13	33.00	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37825-37975	75RB#0-75RB#0	23.75	22.05	33.00	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37925-38075	1RB#0-0RB#0	24.89	23.19	33.00	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37925-38075	75RB#0-75RB#0	23.73	22.03	33.00	PASS
38-38	15MHz-15MHz	QPSK-QPSK	38025-38175	1RB#0-0RB#0	24.87	23.17	33.00	PASS
38-38	15MHz-15MHz	QPSK-QPSK	38025-38175	75RB#0-75RB#0	23.71	22.01	33.00	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37825-37975	1RB#0-0RB#0	23.79	22.09	33.00	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37825-37975	75RB#0-75RB#0	22.75	21.05	33.00	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37925-38075	1RB#0-0RB#0	23.9	22.2	33.00	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37925-38075	75RB#0-75RB#0	22.75	21.05	33.00	PASS
38-38	15MHz-15MHz	16QAM-16QAM	38025-38175	1RB#0-0RB#0	23.84	22.14	33.00	PASS
38-38	15MHz-15MHz	16QAM-16QAM	38025-38175	75RB#0-75RB#0	22.74	21.04	33.00	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37825-37975	1RB#0-0RB#0	22.91	21.21	33.00	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37825-37975	75RB#0-75RB#0	22.76	21.06	33.00	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37925-38075	1RB#0-0RB#0	23.05	21.35	33.00	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37925-38075	75RB#0-75RB#0	22.77	21.07	33.00	PASS
38-38	15MHz-15MHz	64QAM-64QAM	38025-38175	1RB#0-0RB#0	22.96	21.26	33.00	PASS
38-38	15MHz-15MHz	64QAM-64QAM	38025-38175	75RB#0-75RB#0	22.75	21.05	33.00	PASS
38-38	15MHz-15MHz	256QAM-256QAM	37825-37975	1RB#0-0RB#0	19.88	18.18	33.00	PASS
38-38	15MHz-15MHz	256QAM-256QAM	37825-37975	75RB#0-75RB#0	20.79	19.09	33.00	PASS
38-38	15MHz-15MHz	256QAM-256QAM	37925-38075	1RB#0-0RB#0	19.89	18.19	33.00	PASS
38-38	15MHz-15MHz	256QAM-256QAM	37925-38075	75RB#0-75RB#0	20.78	19.08	33.00	PASS
38-38	15MHz-15MHz	256QAM-256QAM	38025-38175	1RB#0-0RB#0	19.94	18.24	33.00	PASS
38-38	15MHz-15MHz	256QAM-256QAM	38025-38175	75RB#0-75RB#0	20.75	19.05	33.00	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37850-38048	100RB#0-100RB#0	23.72	22.02	33.00	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37850-38048	1RB#0-0RB#0	24.89	23.19	33.00	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	23.76	22.06	33.00	PASS



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38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	1RB#0-0RB#0	24.91	23.21	33.00	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	100RB#0-100RB#0	23.74	22.04	33.00	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	1RB#0-0RB#0	24.92	23.22	33.00	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37850-38048	100RB#0-100RB#0	22.72	21.02	33.00	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37850-38048	1RB#0-0RB#0	23.79	22.09	33.00	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	100RB#0-100RB#0	22.75	21.05	33.00	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	1RB#0-0RB#0	23.85	22.15	33.00	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37952-38150	100RB#0-100RB#0	22.76	21.06	33.00	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37952-38150	1RB#0-0RB#0	23.86	22.16	33.00	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37850-38048	100RB#0-100RB#0	22.74	21.04	33.00	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37850-38048	1RB#0-0RB#0	22.91	21.21	33.00	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37901-38099	100RB#0-100RB#0	22.74	21.04	33.00	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37901-38099	1RB#0-0RB#0	22.97	21.27	33.00	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37952-38150	100RB#0-100RB#0	22.74	21.04	33.00	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37952-38150	1RB#0-0RB#0	22.97	21.27	33.00	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37850-38048	100RB#0-100RB#0	20.73	19.03	33.00	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37850-38048	1RB#0-0RB#0	19.81	18.11	33.00	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37901-38099	100RB#0-100RB#0	20.76	19.06	33.00	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37901-38099	1RB#0-0RB#0	19.96	18.26	33.00	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37952-38150	100RB#0-100RB#0	20.77	19.07	33.00	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37952-38150	1RB#0-0RB#0	19.99	18.29	33.00	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band38	20MHz	QPSK	37850	100RB#0	7.28	13	PASS
Band38	20MHz	QPSK	38000	100RB#0	7.16	13	PASS
Band38	20MHz	QPSK	38150	100RB#0	7.12	13	PASS
Band38	20MHz	16QAM	37850	100RB#0	8.00	13	PASS
Band38	20MHz	16QAM	38000	100RB#0	7.90	13	PASS
Band38	20MHz	16QAM	38150	100RB#0	7.92	13	PASS
Band38	20MHz	64QAM	37850	100RB#0	8.74	13	PASS
Band38	20MHz	64QAM	38000	100RB#0	8.52	13	PASS
Band38	20MHz	64QAM	38150	100RB#0	8.54	13	PASS
Band38	20MHz	256QAM	37850	100RB#0	8.50	13	PASS
Band38	20MHz	256QAM	38000	100RB#0	8.68	13	PASS
Band38	20MHz	256QAM	38150	100RB#0	8.56	13	PASS

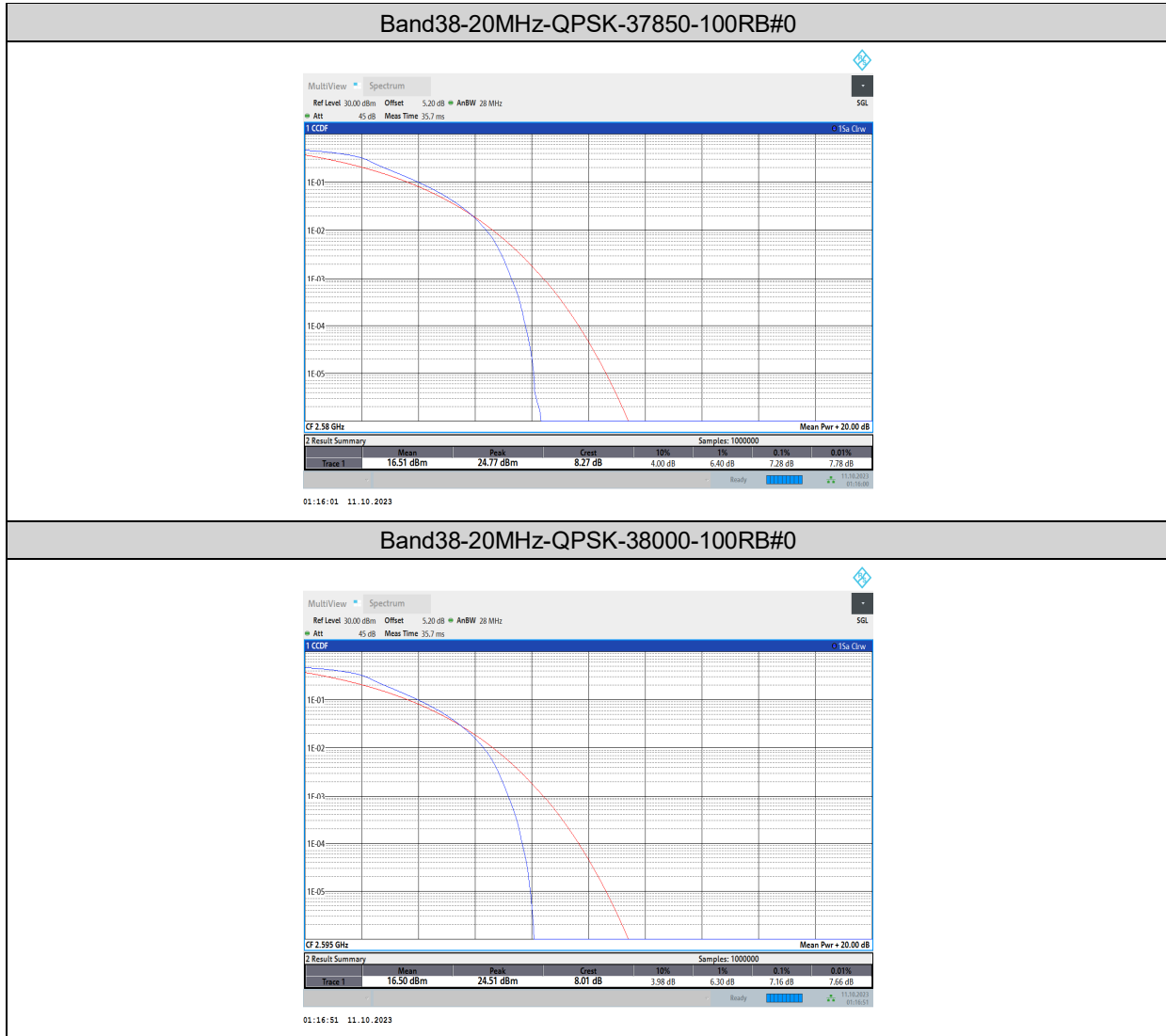


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Test Graphs

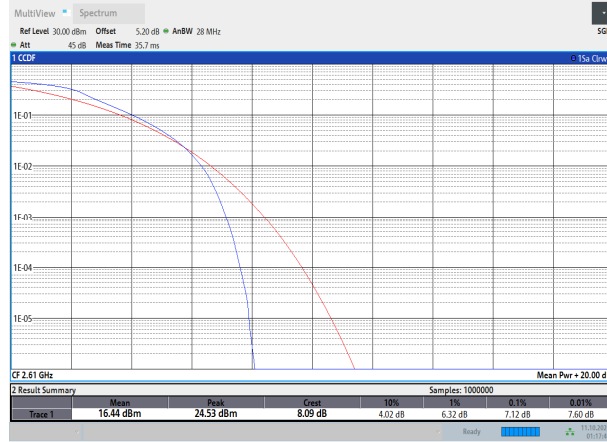


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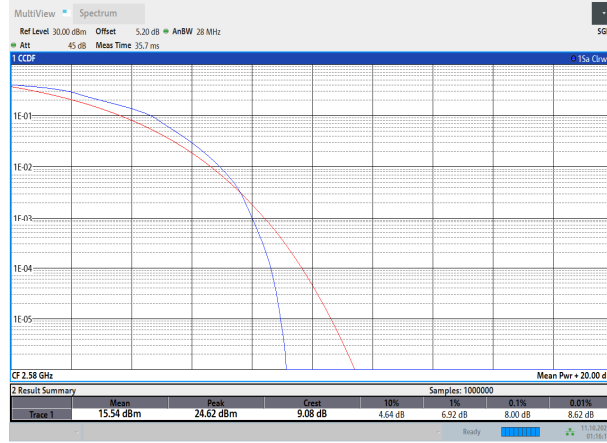
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Band38-20MHz-QPSK-38150-100RB#0



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Band38-20MHz-16QAM-37850-100RB#0



01:16:18 11.10.2023

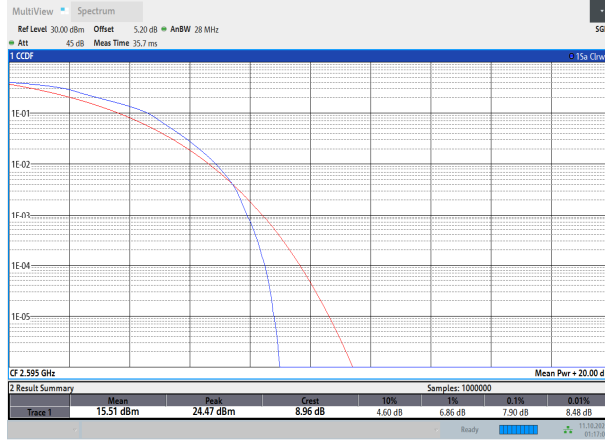


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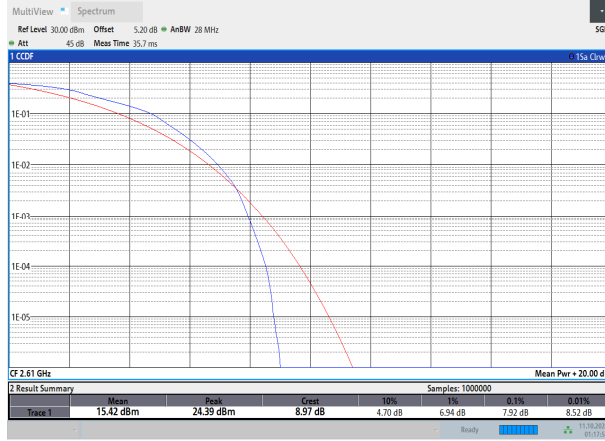
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Band38-20MHz-16QAM-38000-100RB#0



01:17:07 11.10.2023

Band38-20MHz-16QAM-38150-100RB#0



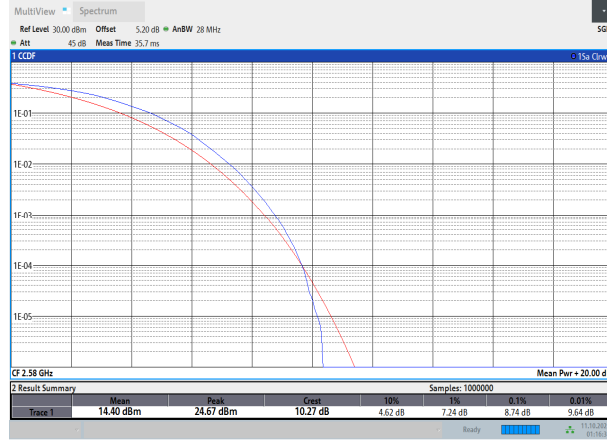
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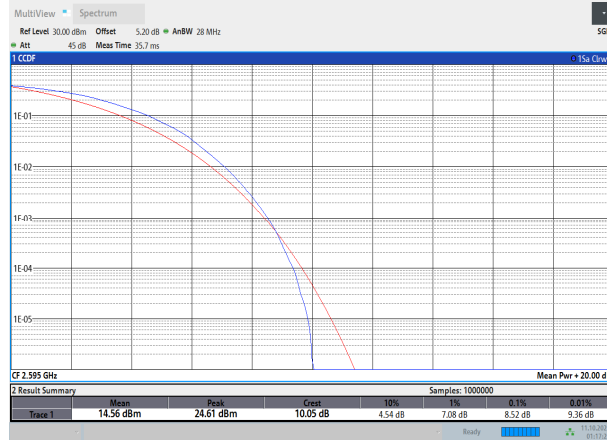
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Band38-20MHz-64QAM-37850-100RB#0



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Band38-20MHz-64QAM-38000-100RB#0



01:17:24 11.10.2023

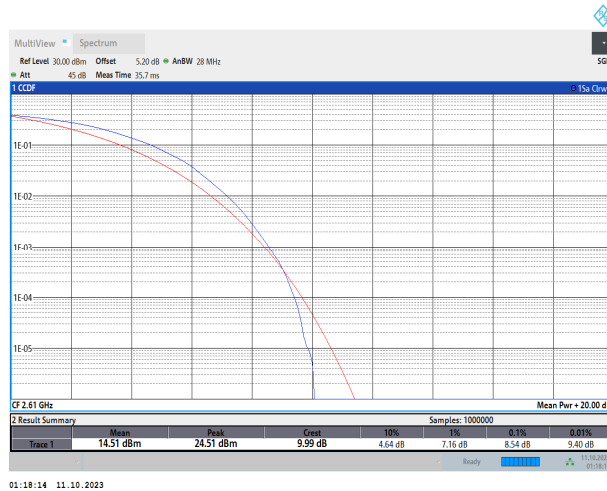


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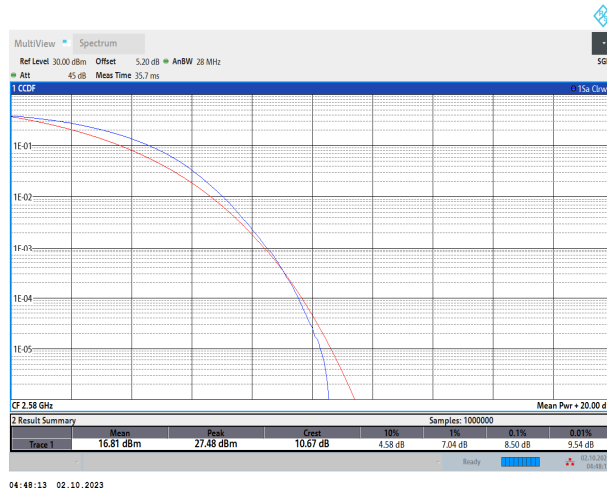
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Band38-20MHz-64QAM-38150-100RB#0



01:18:14 11.10.2023

Band38-20MHz-256QAM-37850-100RB#0



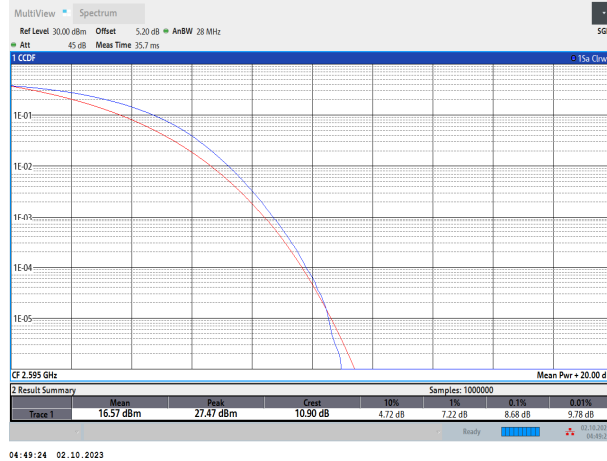
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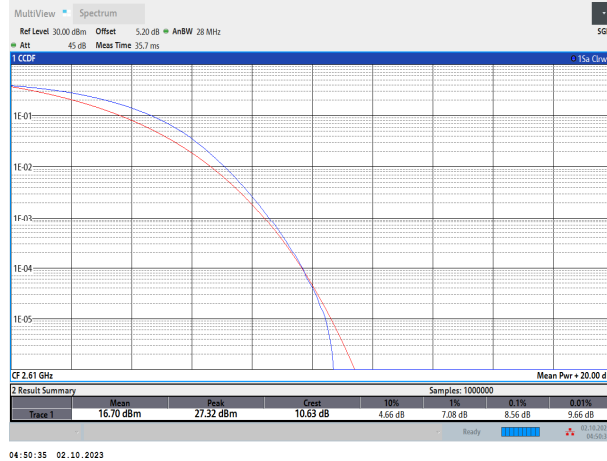
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Band38-20MHz-256QAM-38000-100RB#0



Band38-20MHz-256QAM-38150-100RB#0



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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	28.328	30.24	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37925-38075	75RB#0-75RB#0	28.253	30.36	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37925-38075	75RB#0-75RB#0	28.318	30.30	PASS
38-38	15MHz-15MHz	256QAM-256QAM	37925-38075	75RB#0-75RB#0	28.28	30.30	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	37.835	40.64	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	100RB#0-100RB#0	37.728	40.40	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37901-38099	100RB#0-100RB#0	37.705	40.48	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37901-38099	100RB#0-100RB#0	37.725	40.48	PASS

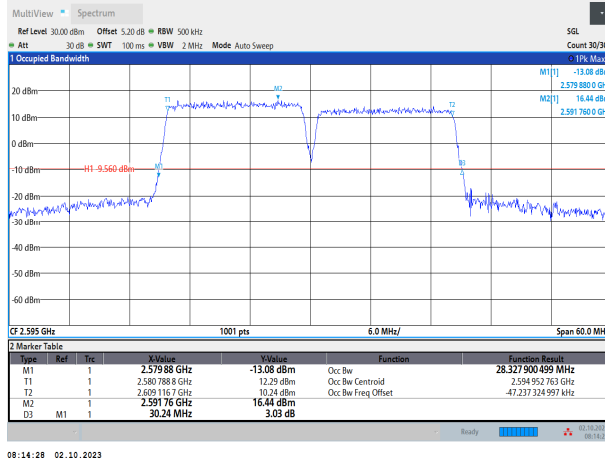


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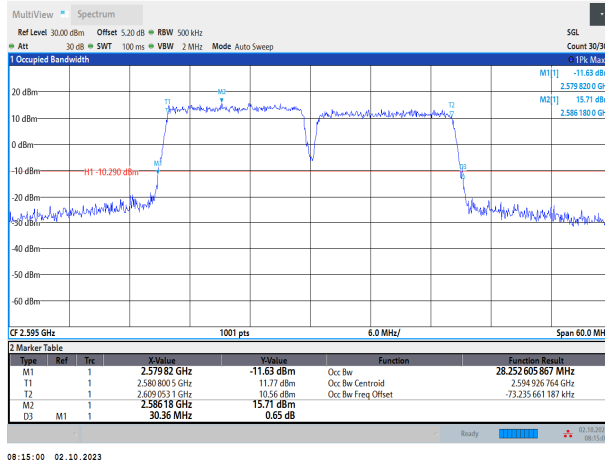
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Test Graphs

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



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

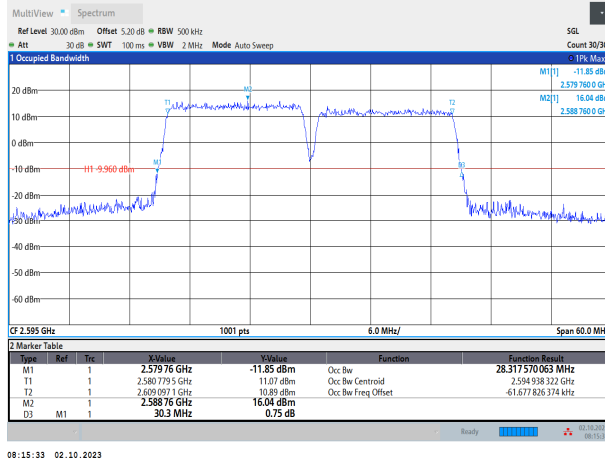


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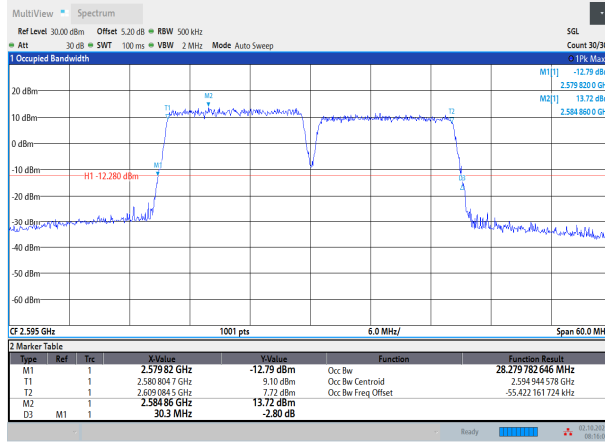
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38-38-15MHz-15MHz-64QAM-64QAM-37925-38075-75RB#0-75RB#0



08:15:33 02.10.2023

38-38-15MHz-15MHz-256QAM-256QAM-37925-38075-75RB#0-75RB#0



08:16:05 02.10.2023

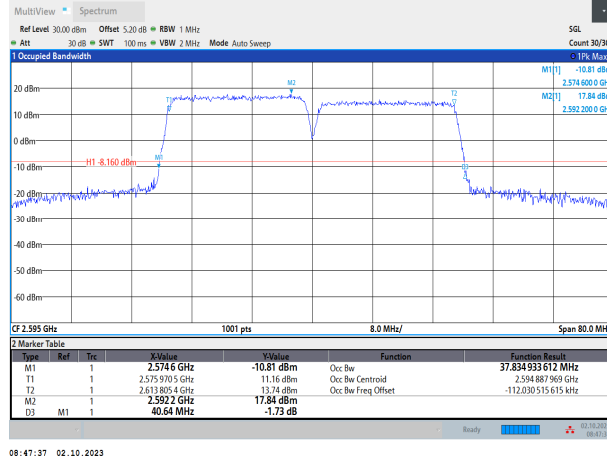


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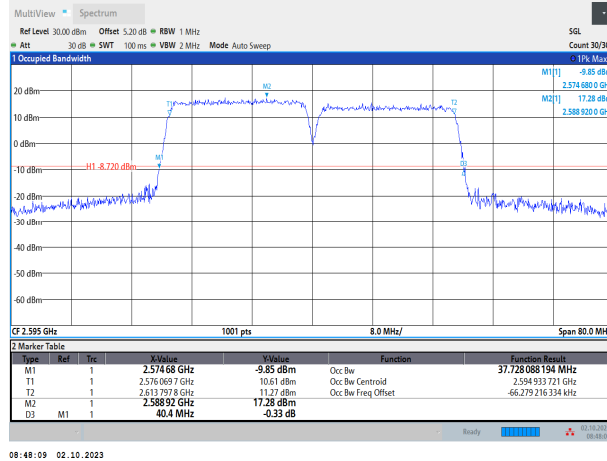
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38-38-20MHz-20MHz-QPSK-QPSK-37901-38099-100RB#0-100RB#0



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

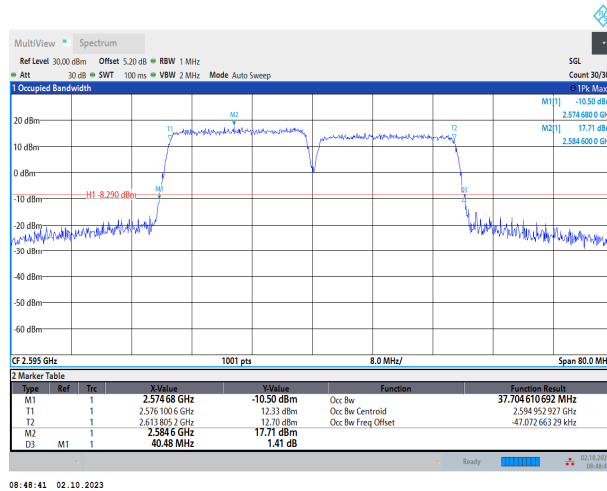


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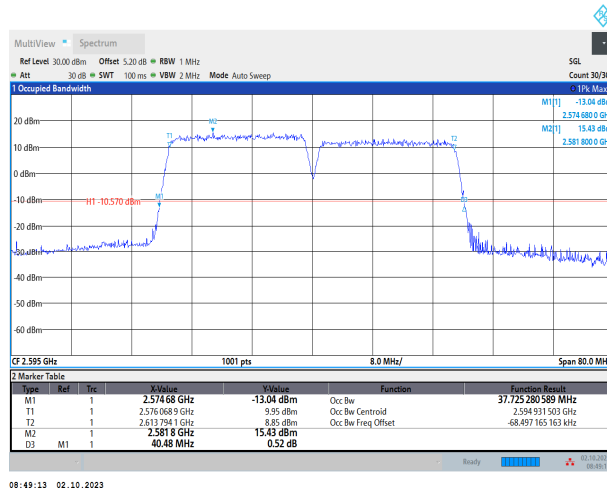
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38-38-20MHz-20MHz-64QAM-64QAM-37901-38099-100RB#0-100RB#0



38-38-20MHz-20MHz-256QAM-256QAM-37901-38099-100RB#0-100RB#0



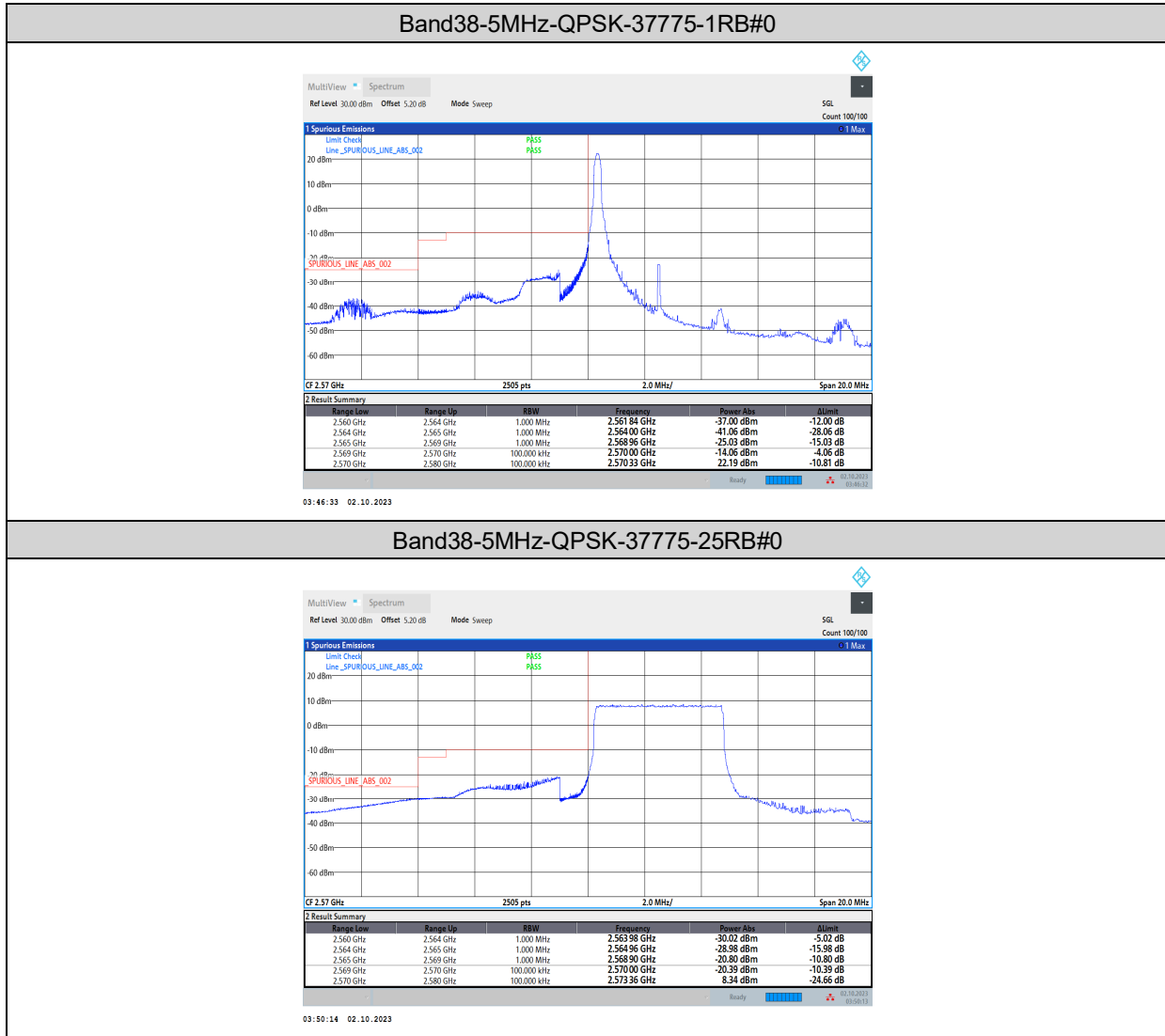
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Band Edge

Test Graphs

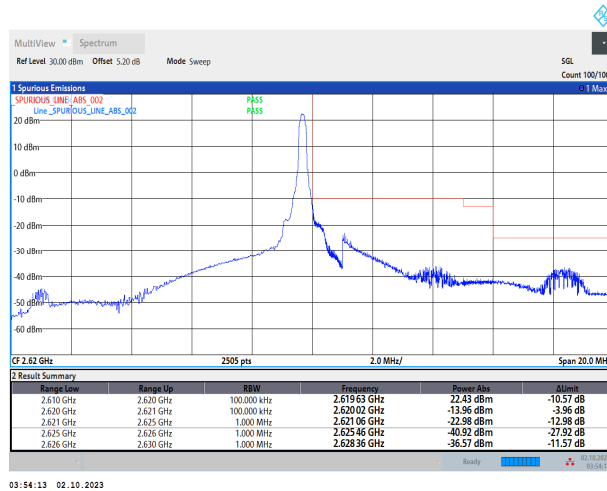


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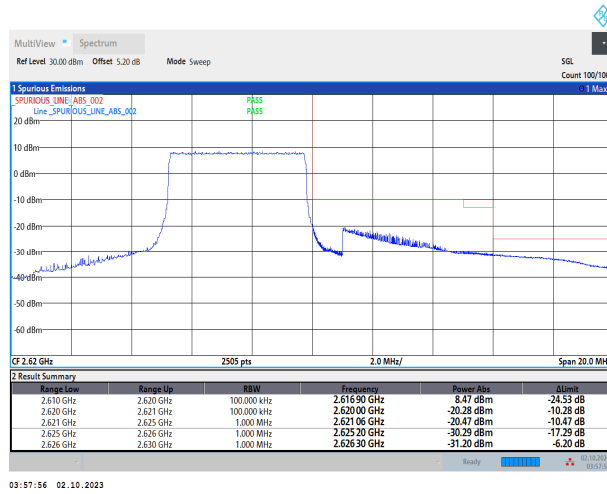
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Band38-5MHz-QPSK-38225-1RB#24



Band38-5MHz-QPSK-38225-25RB#0

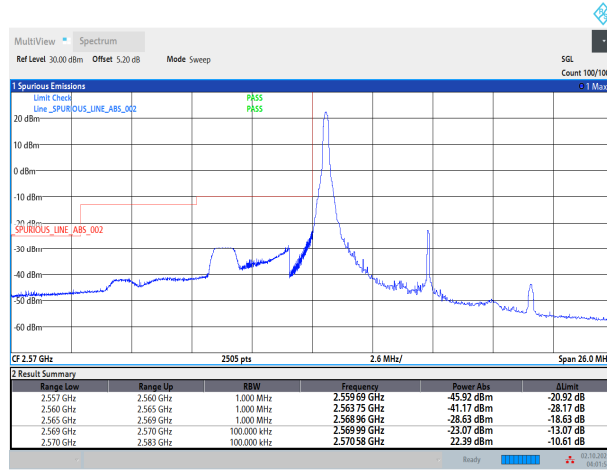


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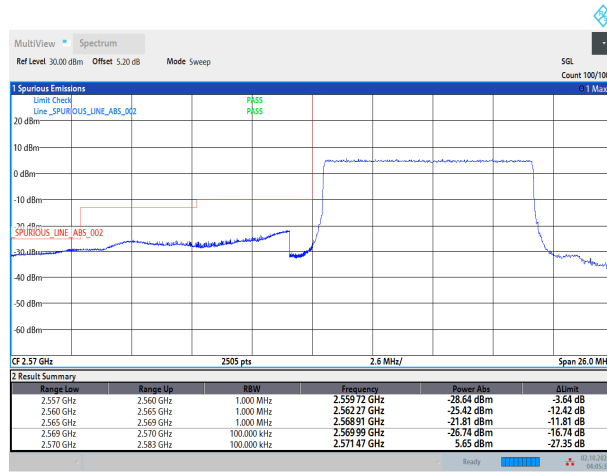
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Band38-10MHz-QPSK-37800-1RB#0



04:01:55 02.10.2023

Band38-10MHz-QPSK-37800-50RB#0



04:05:36 02.10.2023

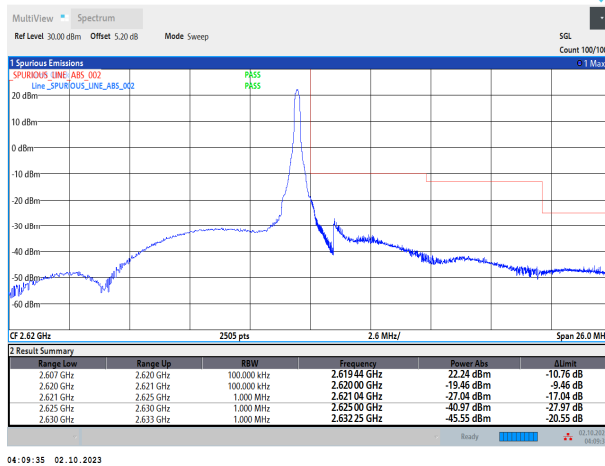


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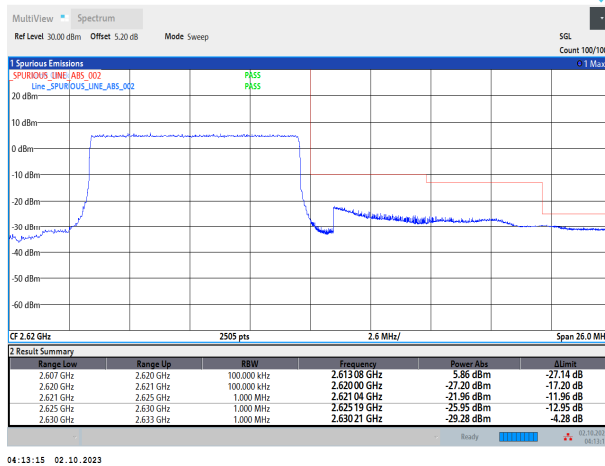
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Band38-10MHz-QPSK-38200-1RB#49



Band38-10MHz-QPSK-38200-50RB#0

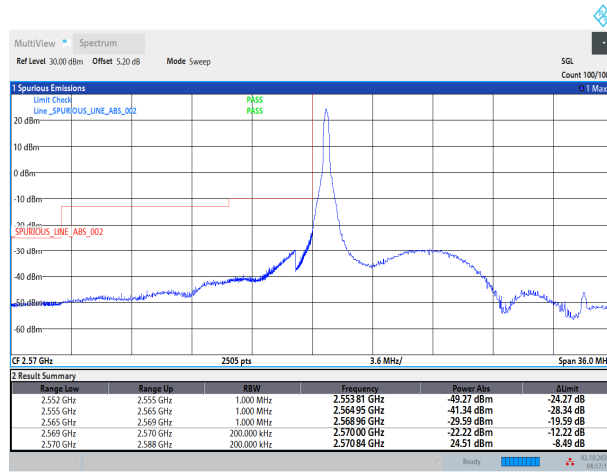


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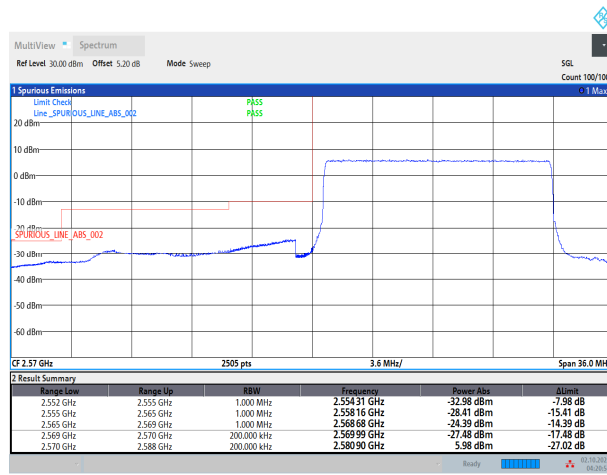
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Band38-15MHz-QPSK-37825-1RB#0



04:17:14 02.10.2023

Band38-15MHz-QPSK-37825-75RB#0



04:20:54 02.10.2023

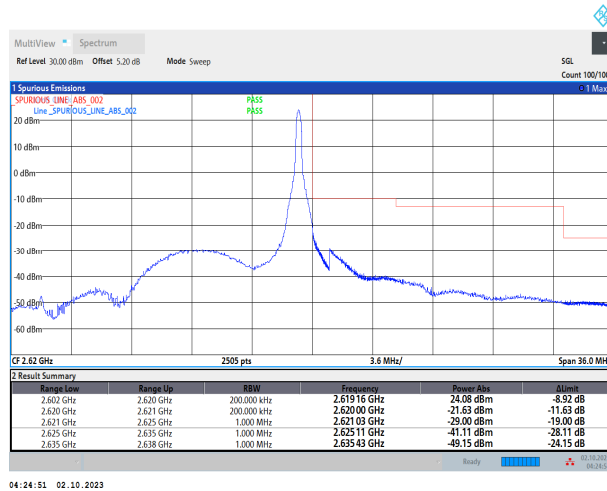


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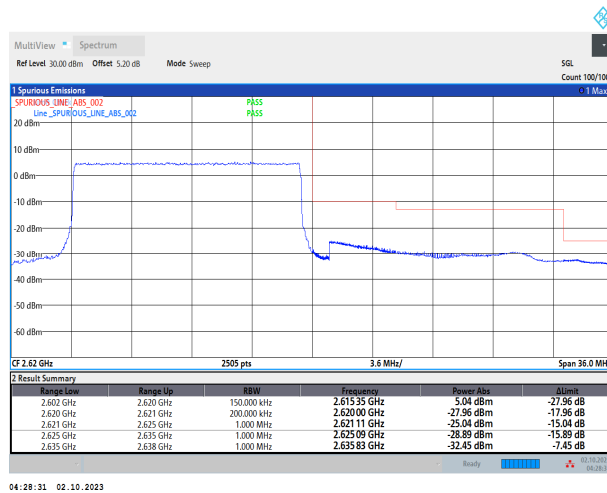
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Band38-15MHz-QPSK-38175-1RB#74



Band38-15MHz-QPSK-38175-75RB#0

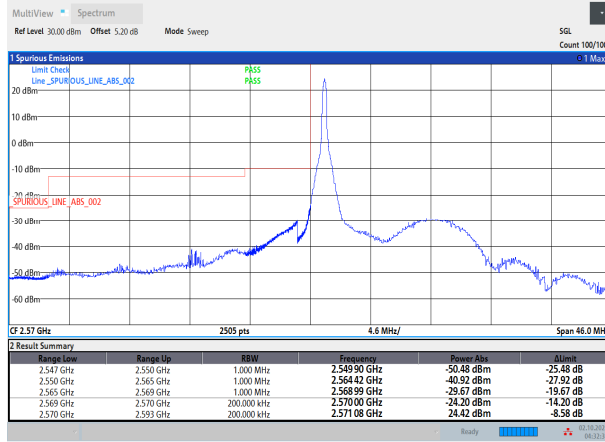


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Band38-20MHz-QPSK-37850-1RB#0



04:32:11 02.10.2023

Band38-20MHz-QPSK-37850-100RB#0



04:36:11 02.10.2023

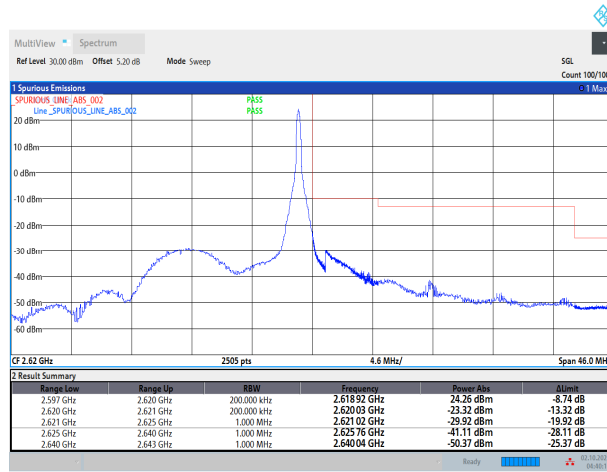


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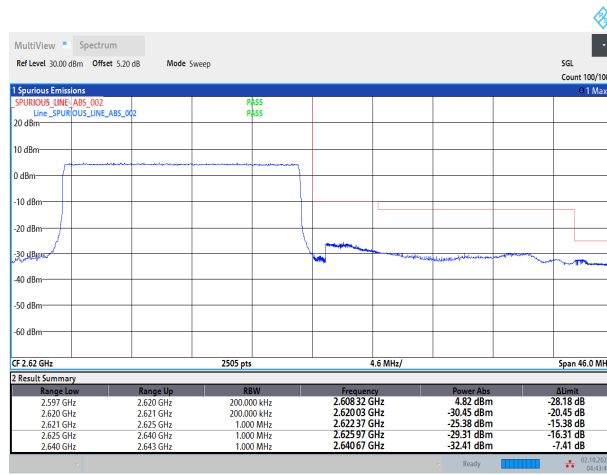
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Band38-20MHz-QPSK-38150-1RB#99



04:40:10 02.10.2023

Band38-20MHz-QPSK-38150-100RB#0



04:43:50 02.10.2023



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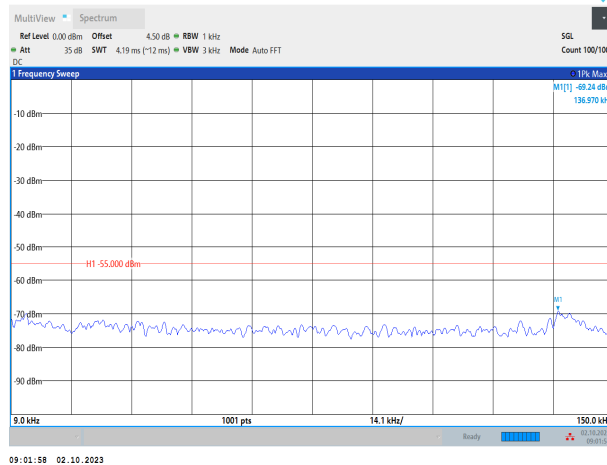
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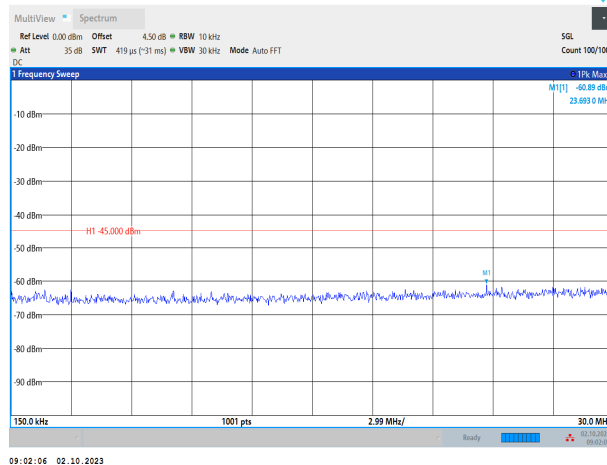
Conducted Spurious Emission

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

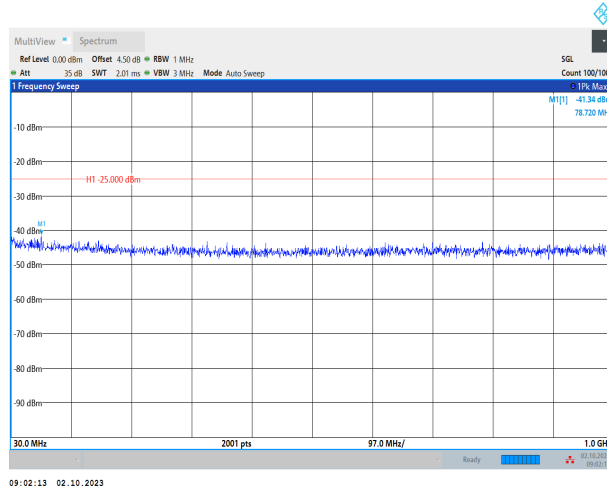


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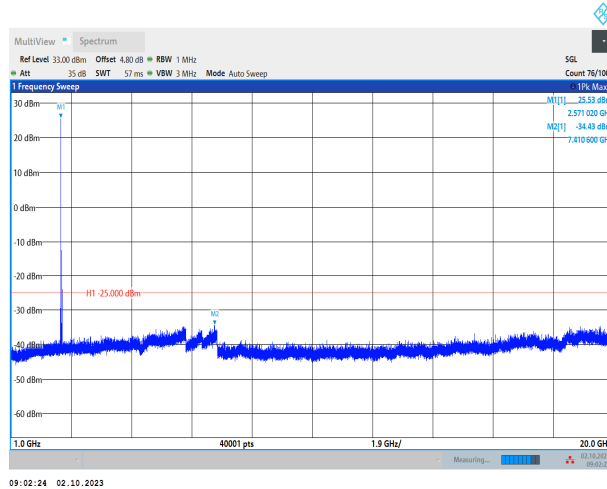
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38-38-20MHz-20MHz-QPSK-QPSK-37850-38048-1RB#0-0RB#0-30~1000MHz



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

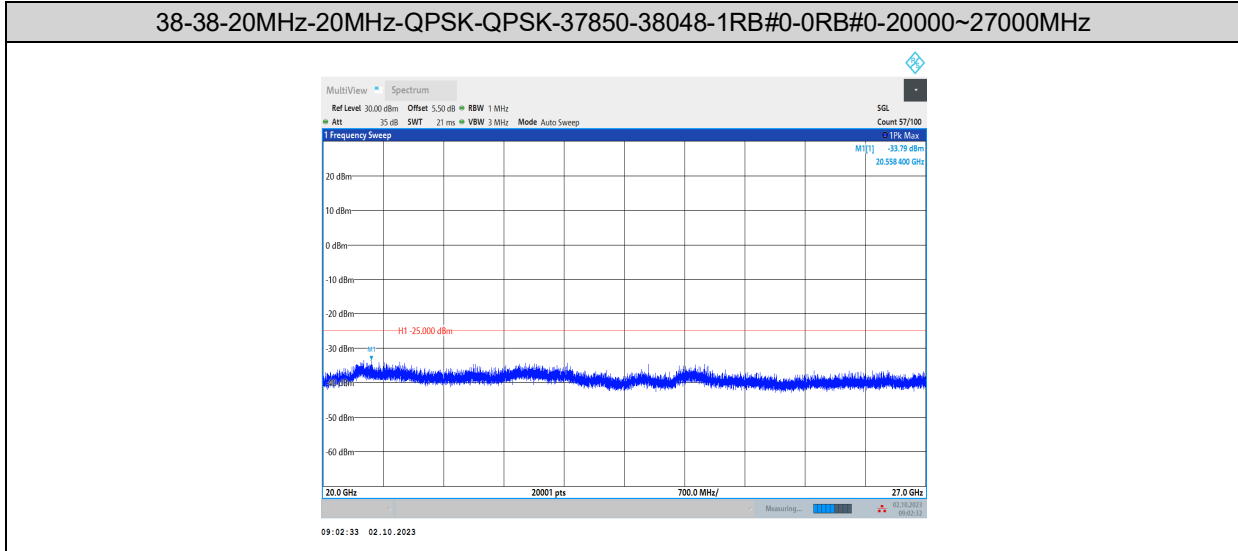


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38-38-20MHz-20MHz-QPSK-QPSK-37850-38048-1RB#0-0RB#0-20000~27000MHz



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Field Strength of Spurious Radiation

Test Band = LTE UL CA 38C_ TM1

Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5142.18	44.15	-47.85	31.84	-67.12	-25.00	42.12	Horizontal
2	7713.27	42.34	-45.17	36.54	-61.55	-25.00	36.55	Horizontal
3	10284.36	39.72	-41.30	38.76	-58.09	-25.00	33.09	Horizontal
4	12855.45	37.27	-39.37	38.69	-58.68	-25.00	33.68	Horizontal
5	15426.54	36.81	-37.45	39.29	-56.61	-25.00	31.61	Horizontal
6	17997.63	35.73	-36.60	45.29	-50.84	-25.00	25.84	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5142.18	43.92	-47.85	31.84	-67.35	-25.00	42.35	Vertical
2	7713.27	42.68	-45.17	36.54	-61.21	-25.00	36.21	Vertical
3	10284.36	38.15	-41.30	38.76	-59.66	-25.00	34.66	Vertical
4	12855.45	36.99	-39.37	38.69	-58.96	-25.00	33.96	Vertical
5	15426.54	35.72	-37.45	39.29	-57.70	-25.00	32.70	Vertical
6	17997.63	36.04	-36.60	45.29	-50.53	-25.00	25.53	Vertical



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Test Band = LTE UL CA 38C_ TM1

Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3909.5	46.29	-48.28	29.27	-67.98	-25.00	42.98	Horizontal
2	5172.18	44.34	-47.87	31.91	-66.88	-25.00	41.88	Horizontal
3	7758.27	41.63	-45.03	36.49	-62.17	-25.00	37.17	Horizontal
4	10344.36	38.28	-41.19	38.81	-59.36	-25.00	34.36	Horizontal
5	12930.45	36.80	-39.42	38.64	-59.24	-25.00	34.24	Horizontal
6	15516.54	35.52	-37.99	39.12	-58.62	-25.00	33.62	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4308.5	45.55	-47.81	29.96	-67.56	-25.00	42.56	Vertical
2	5172.18	43.80	-47.87	31.91	-67.42	-25.00	42.42	Vertical
3	7758.27	42.38	-45.03	36.49	-61.42	-25.00	36.42	Vertical
4	10344.36	38.12	-41.19	38.81	-59.52	-25.00	34.52	Vertical
5	12930.45	37.03	-39.42	38.64	-59.01	-25.00	34.01	Vertical
6	15516.54	36.15	-37.99	39.12	-57.99	-25.00	32.99	Vertical



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Test Band = LTE UL CA 38C_ TM1

Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4366.5	46.18	-48.00	30.06	-67.02	-25.00	42.02	Horizontal
2	5202.18	43.48	-47.89	31.99	-67.68	-25.00	42.68	Horizontal
3	7803.27	42.35	-44.93	36.44	-61.40	-25.00	36.40	Horizontal
4	10404.36	38.99	-41.21	38.86	-58.62	-25.00	33.62	Horizontal
5	13005.45	37.21	-39.34	38.61	-58.77	-25.00	33.77	Horizontal
6	15606.54	36.23	-37.65	38.95	-57.73	-25.00	32.73	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4461	45.78	-48.03	30.23	-67.28	-25.00	42.28	Vertical
2	5202.18	44.33	-47.89	31.99	-66.83	-25.00	41.83	Vertical
3	7803.27	42.52	-44.93	36.44	-61.23	-25.00	36.23	Vertical
4	10404.36	38.60	-41.21	38.86	-59.01	-25.00	34.01	Vertical
5	13005.45	36.74	-39.34	38.61	-59.24	-25.00	34.24	Vertical
6	15606.54	35.80	-37.65	38.95	-58.16	-25.00	33.16	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) - Pre-amplifier (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	-11.00	-0.004255	PASS
38-38	20MHz -20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	VL	NT	-11.30	-0.004371	PASS
38-38	20MHz -20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	VN	NT	-9.50	-0.003675	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	-7.90	-0.003056	PASS
38-38	20MHz -20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	-20	-7.70	-0.002979	PASS
38-38	20MHz -20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	-10	-8.60	-0.003327	PASS
38-38	20MHz -20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	0	-7.30	-0.002824	PASS
38-38	20MHz -20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	10	-9.10	-0.003520	PASS
38-38	20MHz -20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	20	-9.50	-0.003675	PASS
38-38	20MHz -20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	30	-10.80	-0.004178	PASS
38-38	20MHz -20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	40	-9.10	-0.003520	PASS
38-38	20MHz -20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	50	-6.20	-0.003150	PASS

---End of Attachment---



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