

# Appendix B.23

## LTE CA\_38C



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Effective (Isotropic) Radiated Power Output Data

Test Result

Table with 9 columns: Band, Bandwidth, Modulation, Channel, RB Configuration, Result(dBm), EIRP(dBm), Limit(dBm), Verdict. It contains 30 rows of test data for various frequency bands and modulation schemes, all showing 'PASS' results.



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38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	100RB#0-100RB#0	23	25.4	33.00	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	1RB#0-0RB#0	24.22	26.62	33.00	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37850-38048	100RB#0-100RB#0	22.03	24.43	33.00	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37850-38048	1RB#0-0RB#0	23.08	25.48	33.00	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	100RB#0-100RB#0	22.02	24.42	33.00	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	1RB#0-0RB#0	23.1	25.5	33.00	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37952-38150	100RB#0-100RB#0	22.03	24.43	33.00	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37952-38150	1RB#0-0RB#0	23.22	25.62	33.00	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37850-38048	100RB#0-100RB#0	22.03	24.43	33.00	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37850-38048	1RB#0-0RB#0	22.29	24.69	33.00	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37901-38099	100RB#0-100RB#0	22.01	24.41	33.00	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37901-38099	1RB#0-0RB#0	22.31	24.71	33.00	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37952-38150	100RB#0-100RB#0	22.03	24.43	33.00	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37952-38150	1RB#0-0RB#0	22.29	24.69	33.00	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37850-38048	100RB#0-100RB#0	20.07	22.47	33.00	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37850-38048	1RB#0-0RB#0	19.26	21.66	33.00	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37901-38099	100RB#0-100RB#0	20.05	22.45	33.00	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37901-38099	1RB#0-0RB#0	19.34	21.74	33.00	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37952-38150	100RB#0-100RB#0	20.04	22.44	33.00	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37952-38150	1RB#0-0RB#0	19.28	21.68	33.00	PASS



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## Peak-to-Average Ratio(CCDF)

### Test Result

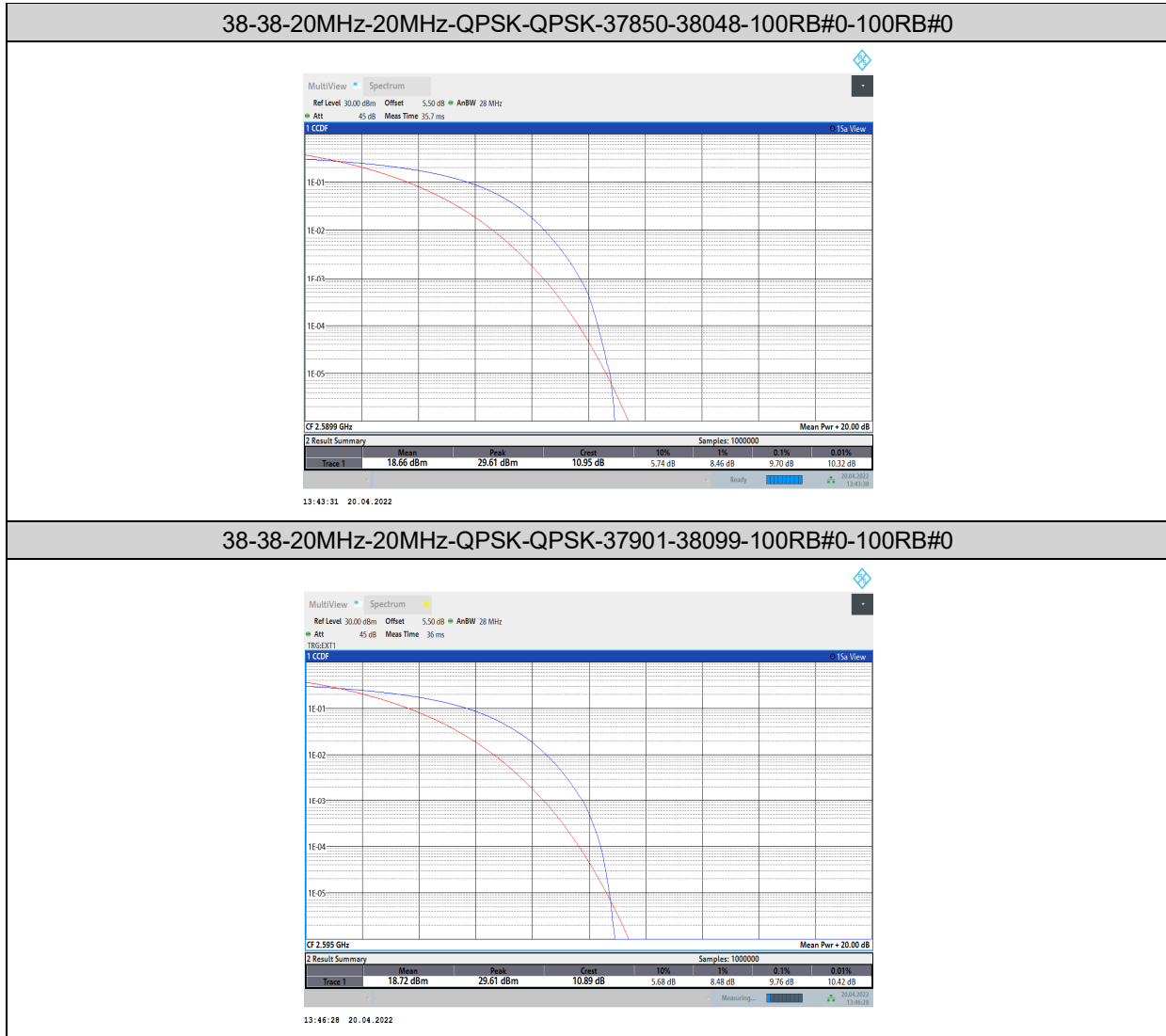
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
38-38	20MHz-20MHz	QPSK-QPSK	37850-38048	100RB#0-100RB#0	9.70	13	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	9.76	13	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	100RB#0-100RB#0	9.62	13	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37850-38048	100RB#0-100RB#0	10.24	13	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	100RB#0-100RB#0	10.28	13	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37952-38150	100RB#0-100RB#0	10.26	13	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37850-38048	100RB#0-100RB#0	10.34	13	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37901-38099	100RB#0-100RB#0	10.32	13	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37952-38150	100RB#0-100RB#0	10.34	13	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37850-38048	100RB#0-100RB#0	10.40	13	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37901-38099	100RB#0-100RB#0	10.56	13	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37952-38150	100RB#0-100RB#0	10.58	13	PASS



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Test Graphs

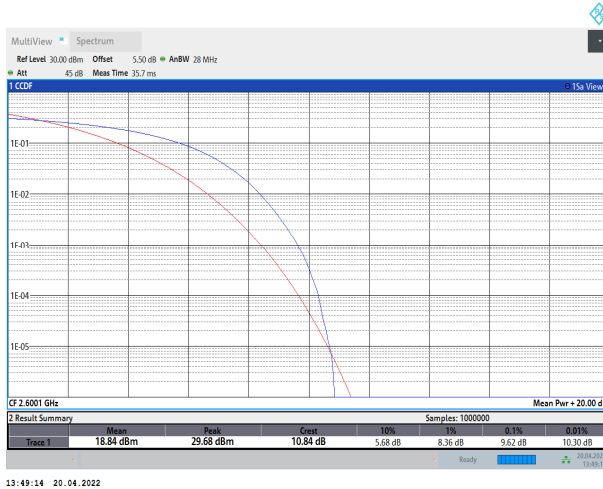


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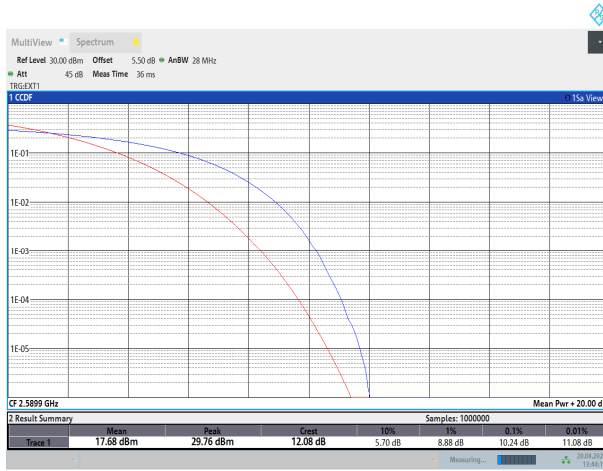
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38-38-20MHz-20MHz-QPSK-QPSK-37952-38150-100RB#0-100RB#0



13:49:14 20.04.2022

38-38-20MHz-20MHz-16QAM-16QAM-37850-38048-100RB#0-100RB#0



13:44:20 20.04.2022

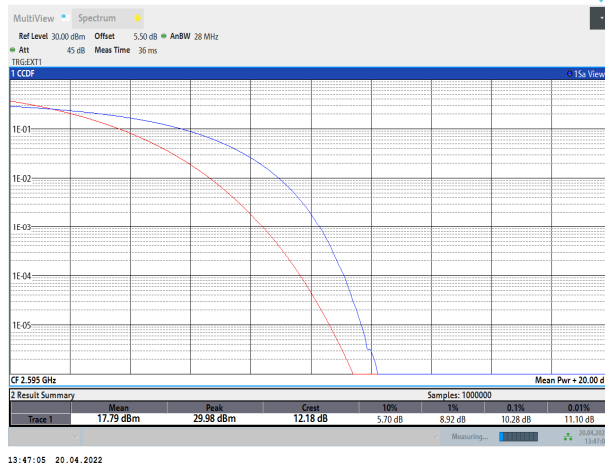


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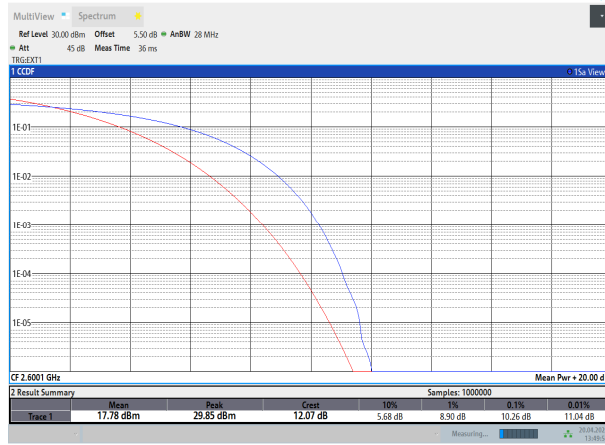
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38-38-20MHz-20MHz-16QAM-16QAM-37901-38099-100RB#0-100RB#0



13:47:05 20.04.2022

38-38-20MHz-20MHz-16QAM-16QAM-37952-38150-100RB#0-100RB#0



13:49:57 20.04.2022

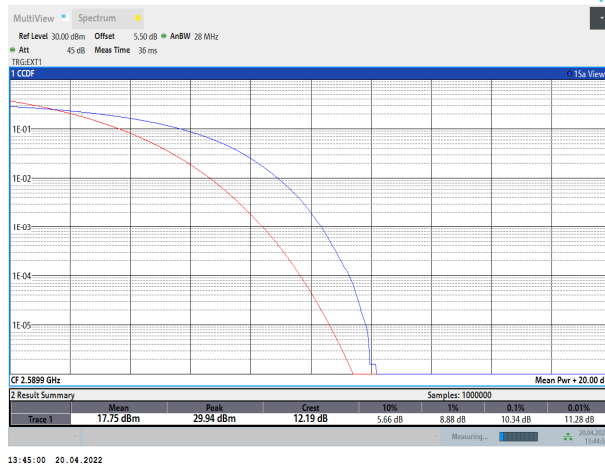


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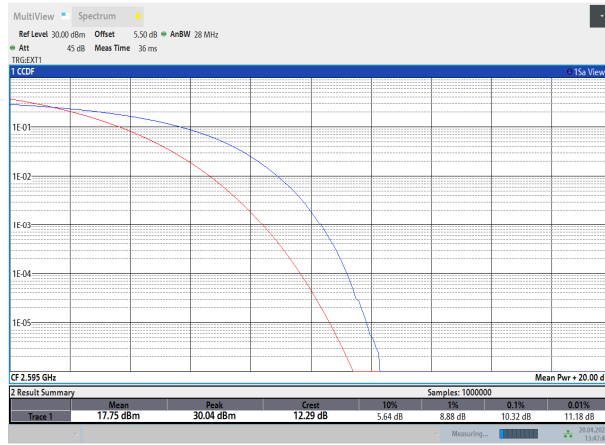
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38-38-20MHz-20MHz-64QAM-64QAM-37850-38048-100RB#0-100RB#0



13:45:00 20.04.2022

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



13:47:47 20.04.2022

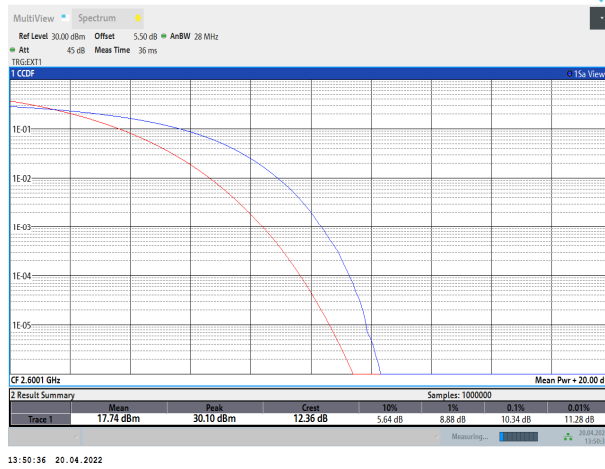


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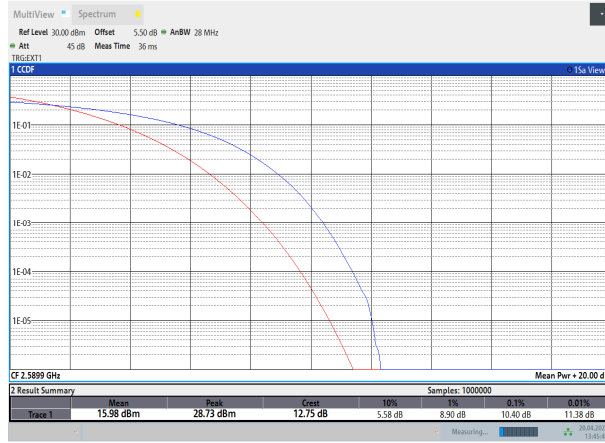


38-38-20MHz-20MHz-64QAM-64QAM-37952-38150-100RB#0-100RB#0



13:50:36 20.04.2022

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13:45:42 20.04.2022

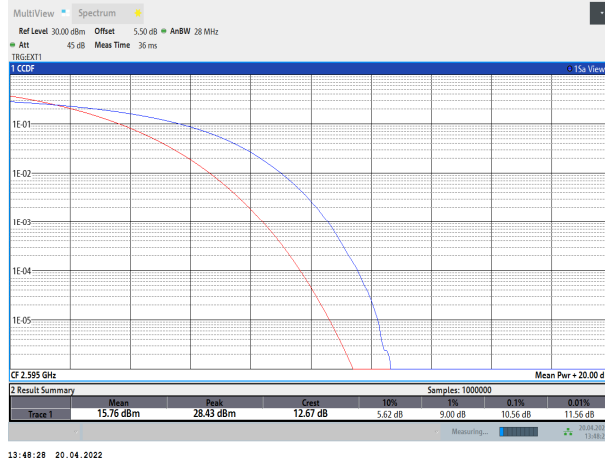


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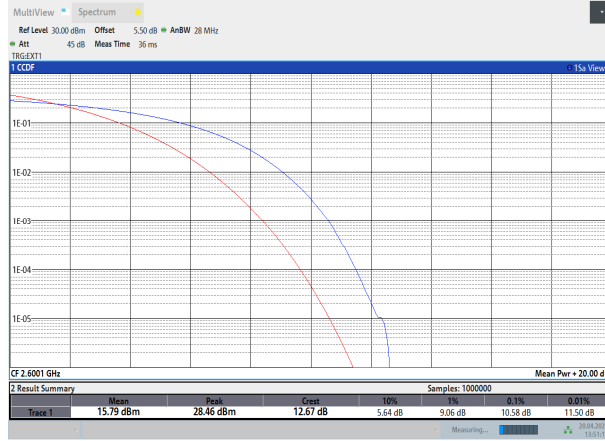
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38-38-20MHz-20MHz-256QAM-256QAM-37901-38099-100RB#0-100RB#0



13:48:28 20.04.2022

38-38-20MHz-20MHz-256QAM-256QAM-37952-38150-100RB#0-100RB#0



13:51:13 20.04.2022



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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	37825-37975	75RB#0-75RB#0	28.188	31.26	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37925-38075	75RB#0-75RB#0	28.190	30.84	PASS
38-38	15MHz-15MHz	QPSK-QPSK	38025-38175	75RB#0-75RB#0	28.169	30.90	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37825-37975	75RB#0-75RB#0	28.135	31.02	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37925-38075	75RB#0-75RB#0	28.149	32.04	PASS
38-38	15MHz-15MHz	16QAM-16QAM	38025-38175	75RB#0-75RB#0	28.184	30.18	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37825-37975	75RB#0-75RB#0	28.156	31.68	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37925-38075	75RB#0-75RB#0	28.128	30.24	PASS
38-38	15MHz-15MHz	64QAM-64QAM	38025-38175	75RB#0-75RB#0	28.195	31.20	PASS
38-38	15MHz-15MHz	256QAM-256QAM	37825-37975	75RB#0-75RB#0	28.197	30.72	PASS
38-38	15MHz-15MHz	256QAM-256QAM	37925-38075	75RB#0-75RB#0	28.158	31.32	PASS
38-38	15MHz-15MHz	256QAM-256QAM	38025-38175	75RB#0-75RB#0	28.179	30.66	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37850-38048	100RB#0-100RB#0	37.543	42.00	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	37.587	43.76	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	100RB#0-100RB#0	37.619	42.88	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37850-38048	100RB#0-100RB#0	37.562	43.04	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	100RB#0-100RB#0	37.615	43.28	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37952-38150	100RB#0-100RB#0	37.628	42.56	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37850-38048	100RB#0-100RB#0	37.594	41.68	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37901-38099	100RB#0-100RB#0	37.576	43.44	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37952-38150	100RB#0-100RB#0	37.568	42.80	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37850-38048	100RB#0-100RB#0	37.562	46.08	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37901-38099	100RB#0-100RB#0	37.502	40.96	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37952-38150	100RB#0-100RB#0	37.534	42.08	PASS



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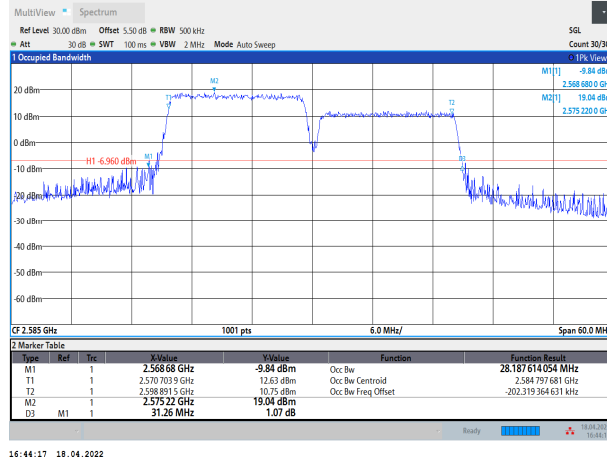
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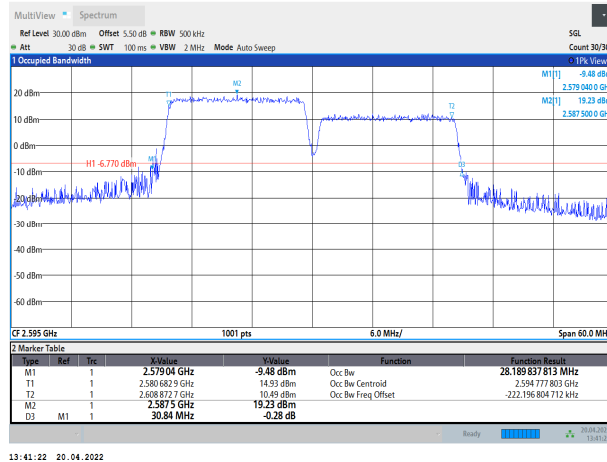
Test Graphs

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



16:44:17 18. 04. 2022

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



13:41:22 20. 04. 2022

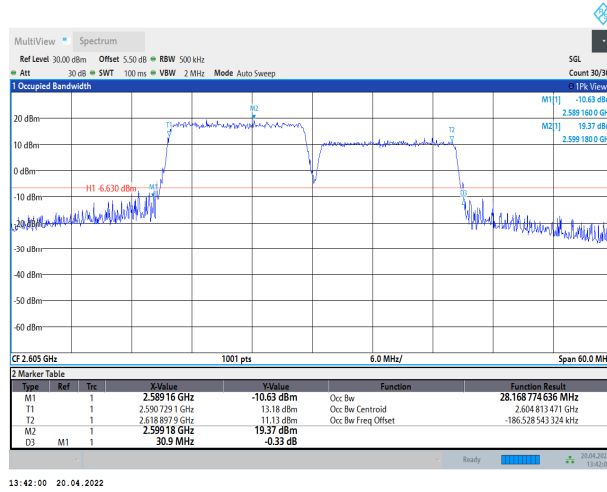


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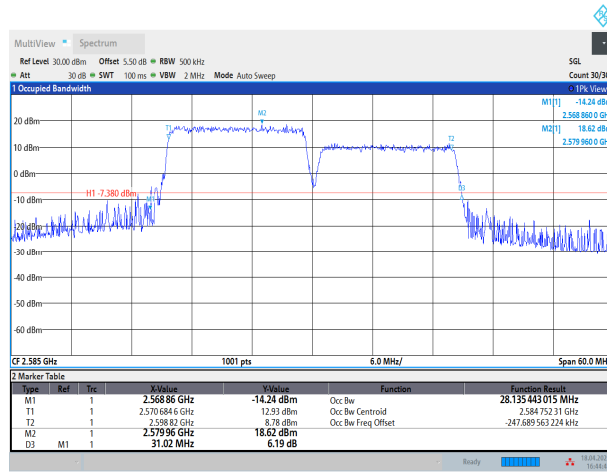
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38-38-15MHz-15MHz-QPSK-QPSK-38025-38175-75RB#0-75RB#0



13:42:00 20.04.2022

38-38-15MHz-15MHz-16QAM-16QAM-37825-37975-75RB#0-75RB#0



16:44:48 18.04.2022

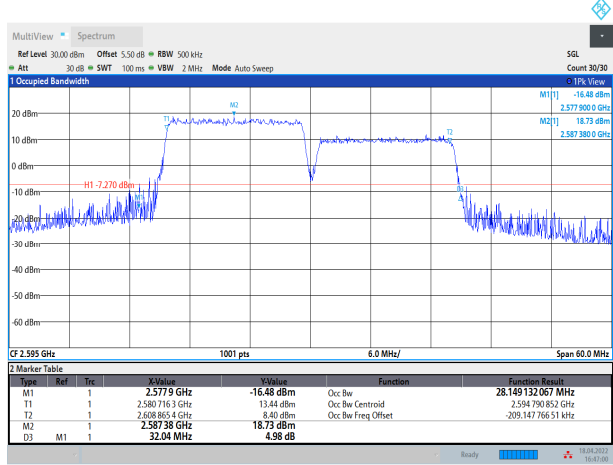


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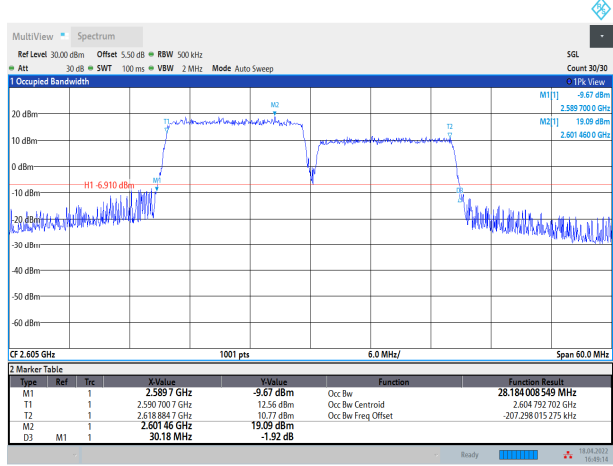
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38-38-15MHz-15MHz-16QAM-16QAM-37925-38075-75RB#0-75RB#0



16:47:00 18.04.2022

38-38-15MHz-15MHz-16QAM-16QAM-38025-38175-75RB#0-75RB#0



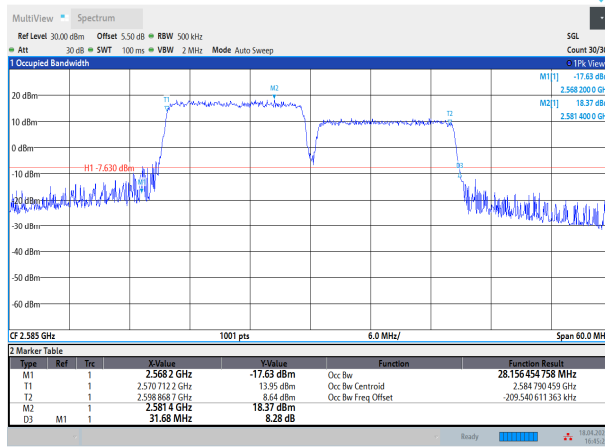
16:49:15 18.04.2022



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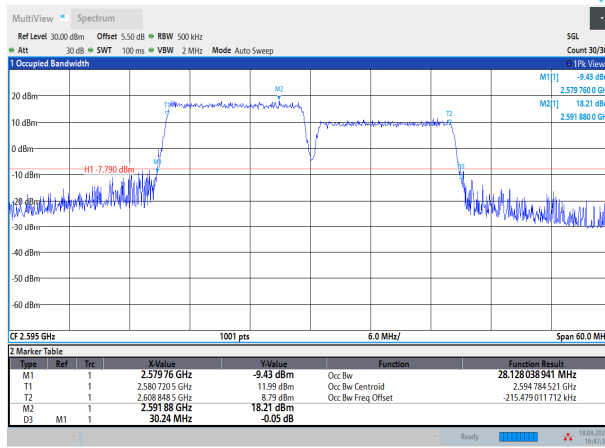
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38-38-15MHz-15MHz-64QAM-64QAM-37825-37975-75RB#0-75RB#0



16:45:20 18.04.2022

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



16:47:32 18.04.2022

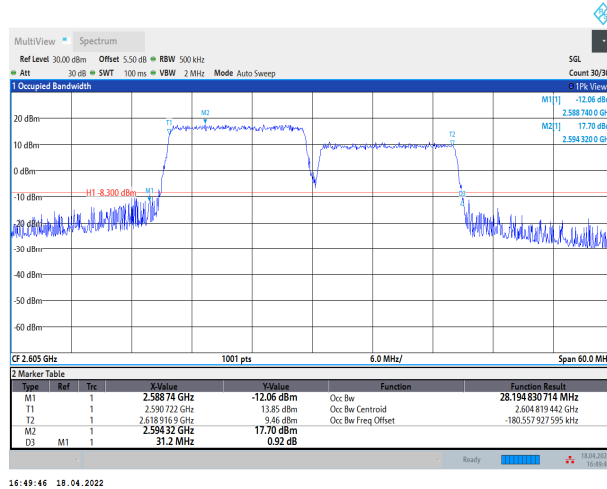


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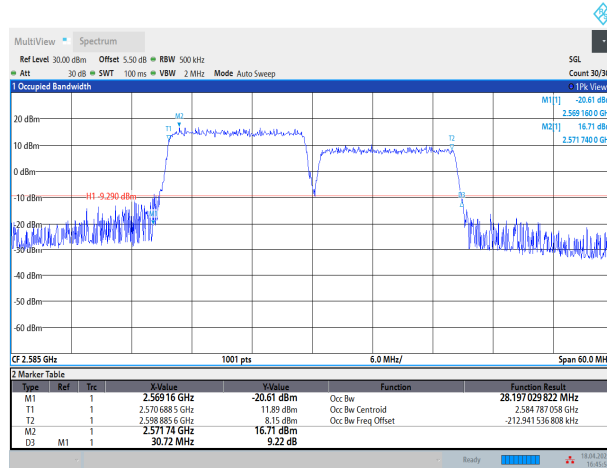
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38-38-15MHz-15MHz-64QAM-64QAM-38025-38175-75RB#0-75RB#0



16:49:46 18.04.2022

38-38-15MHz-15MHz-256QAM-256QAM-37825-37975-75RB#0-75RB#0



16:45:52 18.04.2022



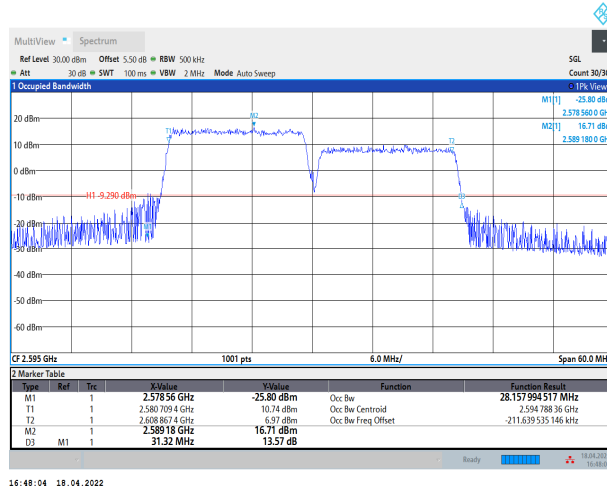
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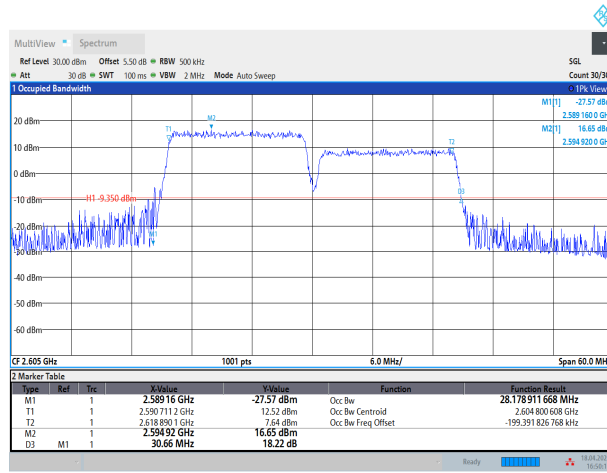


38-38-15MHz-15MHz-256QAM-256QAM-37925-38075-75RB#0-75RB#0



16:49:04 18.04.2022

38-38-15MHz-15MHz-256QAM-256QAM-38025-38175-75RB#0-75RB#0



16:50:18 18.04.2022

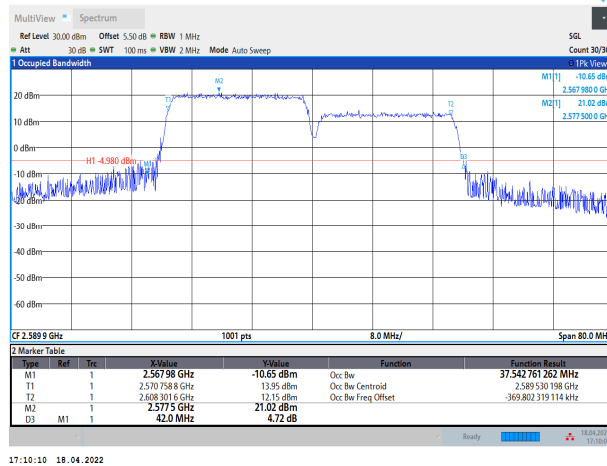


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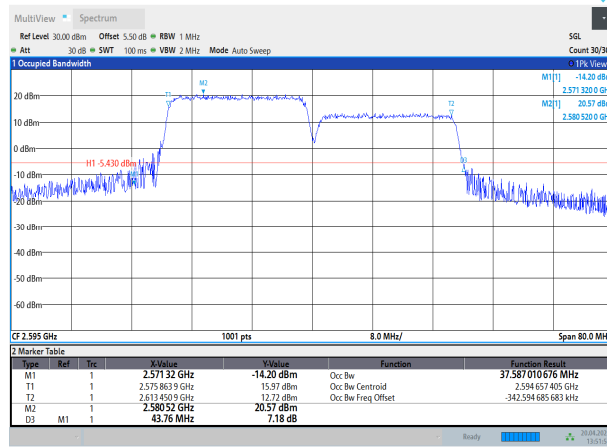
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38-38-20MHz-20MHz-QPSK-QPSK-37850-38048-100RB#0-100RB#0



17:10:10 18.04.2022

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



13:51:54 20.04.2022

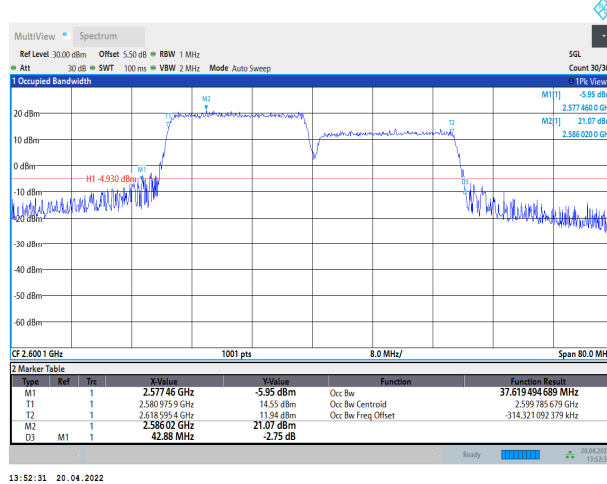


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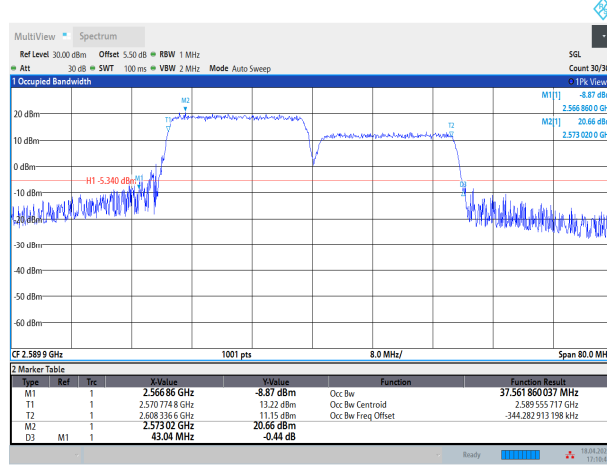
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38-38-20MHz-20MHz-QPSK-QPSK-37952-38150-100RB#0-100RB#0



13:52:11 20.04.2022

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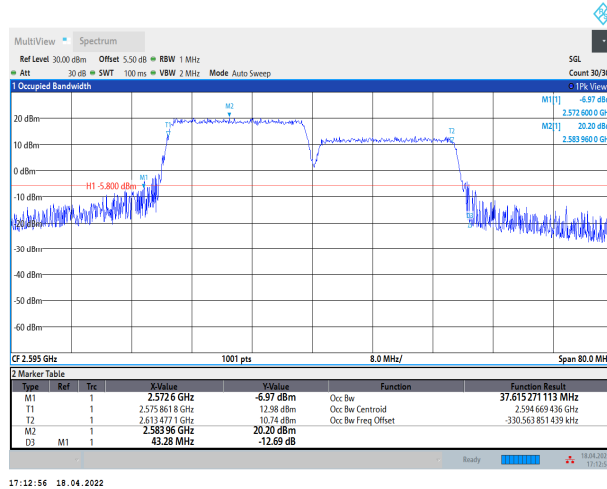


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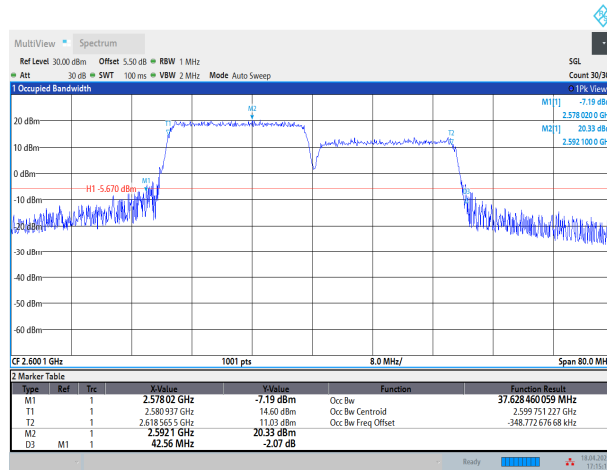
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38-38-20MHz-20MHz-16QAM-16QAM-37901-38099-100RB#0-100RB#0



17:12:56 18.04.2022

38-38-20MHz-20MHz-16QAM-16QAM-37952-38150-100RB#0-100RB#0



17:15:10 18.04.2022

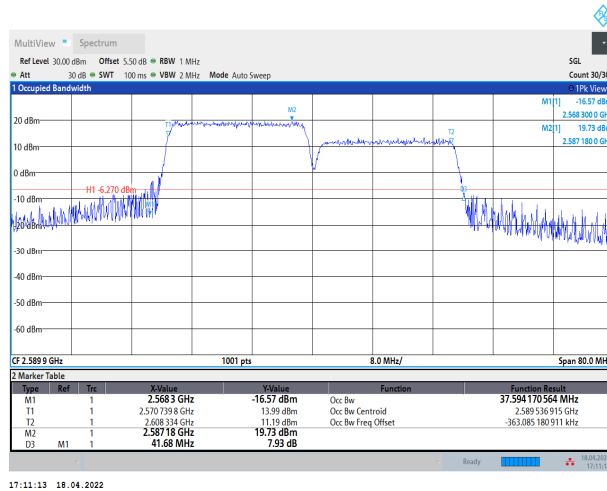


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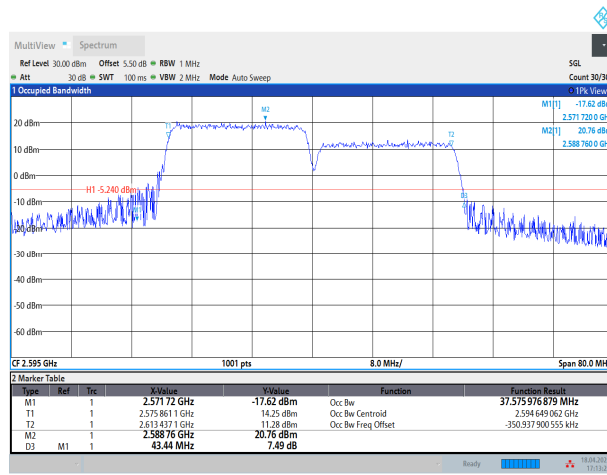
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38-38-20MHz-20MHz-64QAM-64QAM-37850-38048-100RB#0-100RB#0



17:11:13 18.04.2022

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17:13:28 18.04.2022

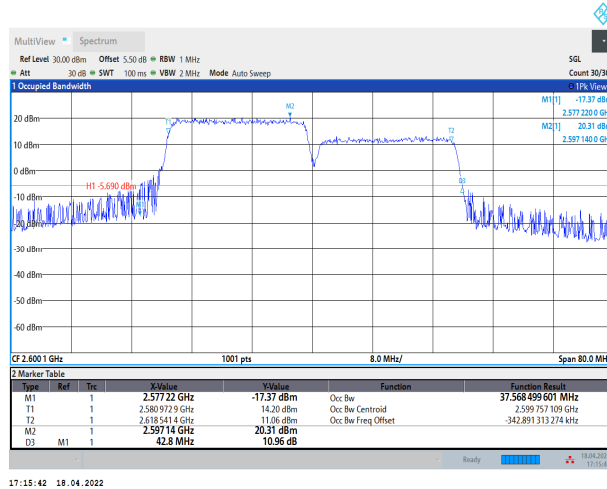


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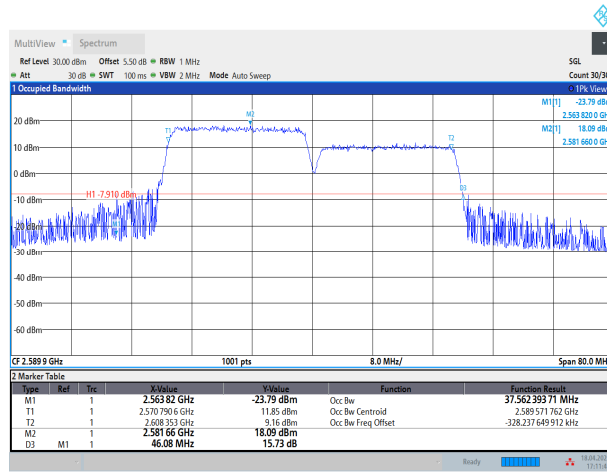
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38-38-20MHz-20MHz-64QAM-64QAM-37952-38150-100RB#0-100RB#0



17:15:42 18.04.2022

38-38-20MHz-20MHz-256QAM-256QAM-37850-38048-100RB#0-100RB#0



17:11:45 18.04.2022

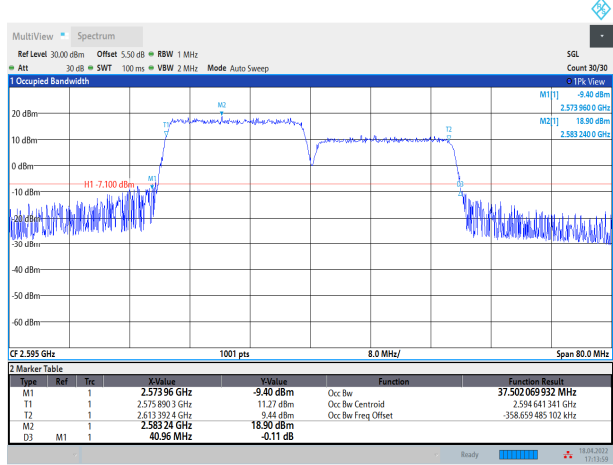


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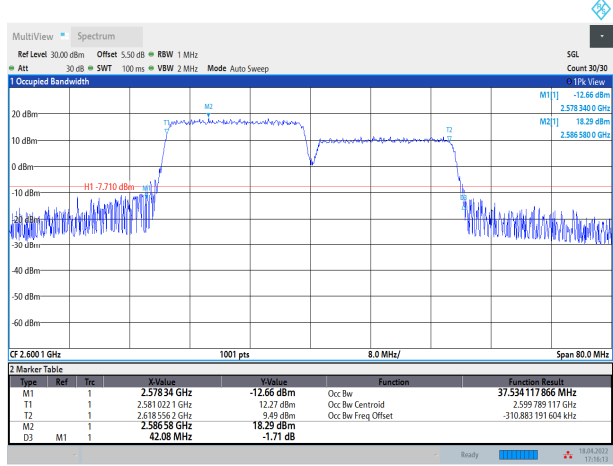
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38-38-20MHz-20MHz-256QAM-256QAM-37901-38099-100RB#0-100RB#0



17:14:00 18.04.2022

38-38-20MHz-20MHz-256QAM-256QAM-37952-38150-100RB#0-100RB#0



17:16:14 18.04.2022



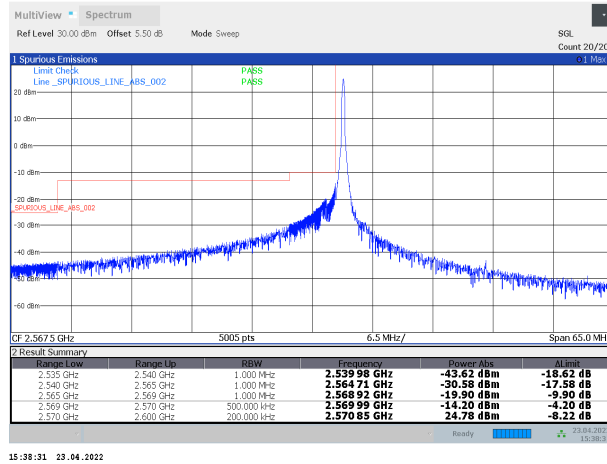
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## Band Edge

## Test Graphs

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



15:38:31 23.04.2022

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



16:52:23 18.04.2022



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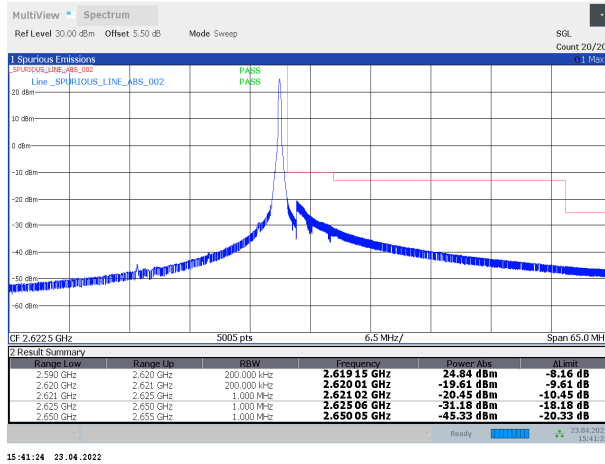
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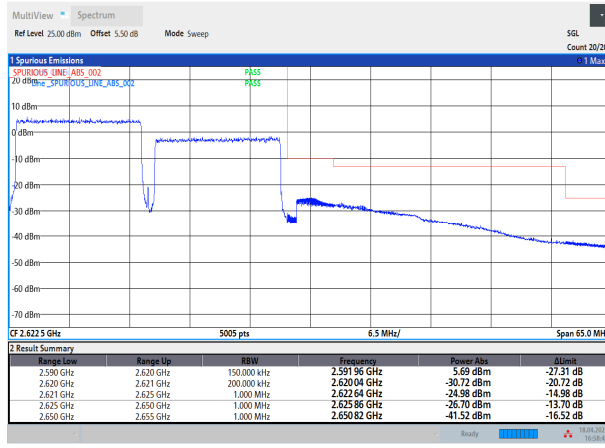


38-38-15MHz-15MHz-QPSK-QPSK-38025-38175-0RB#0-1RB#74



15:41:24 23.04.2022

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



16:58:40 18.04.2022

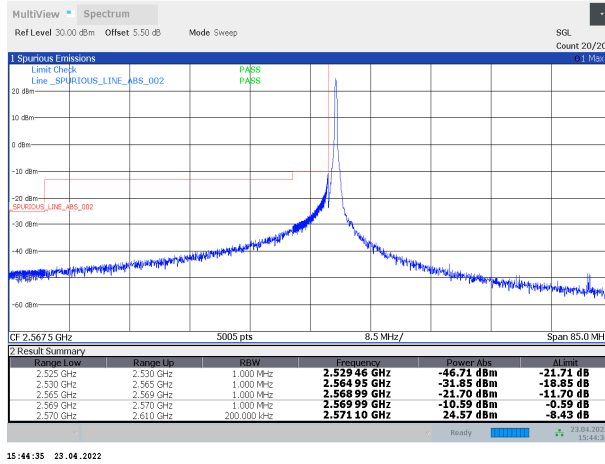


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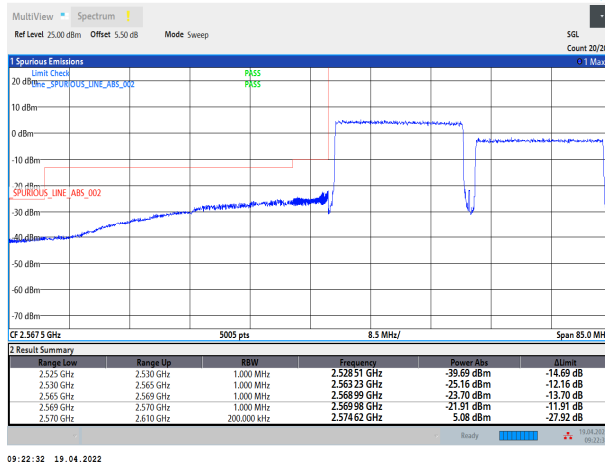
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38-38-20MHz-20MHz-QPSK-QPSK-37850-38048-1RB#0-0RB#0



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

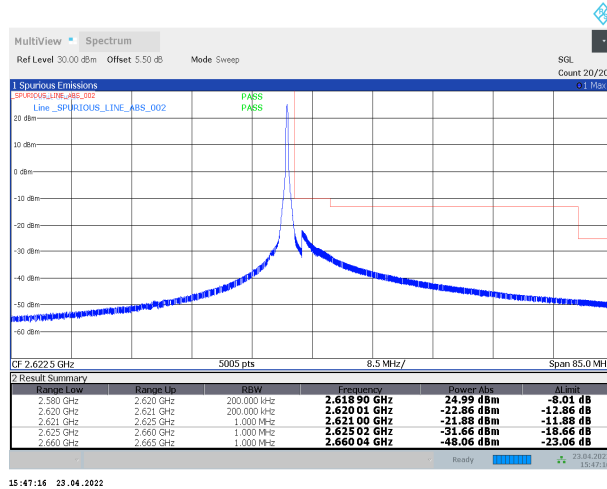


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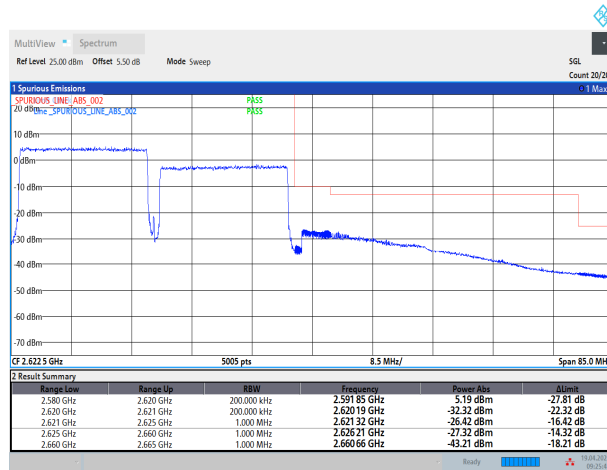
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38-38-20MHz-20MHz-QPSK-QPSK-37952-38150-0RB#0-1RB#99



15:47:16 23.04.2022

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



09:25:47 19.04.2022



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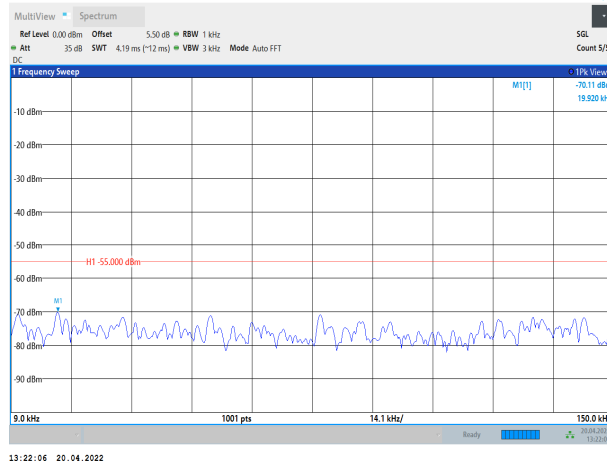
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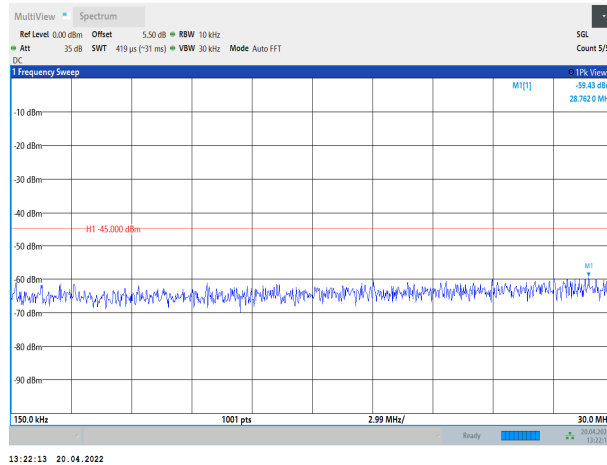
## Conducted Spurious Emission

### Test Graphs

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



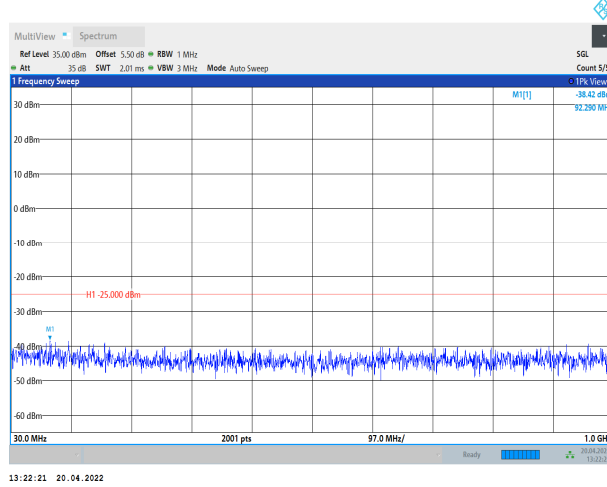
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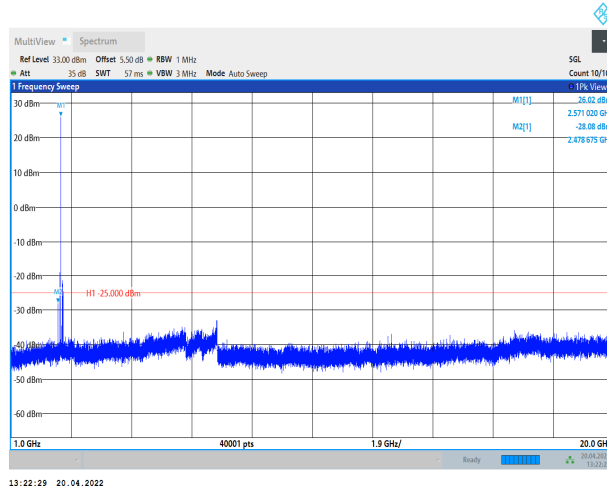
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38-38-20MHz-20MHz-QPSK-QPSK-37850-38048-1RB#0-0RB#0-30~1000MHz



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

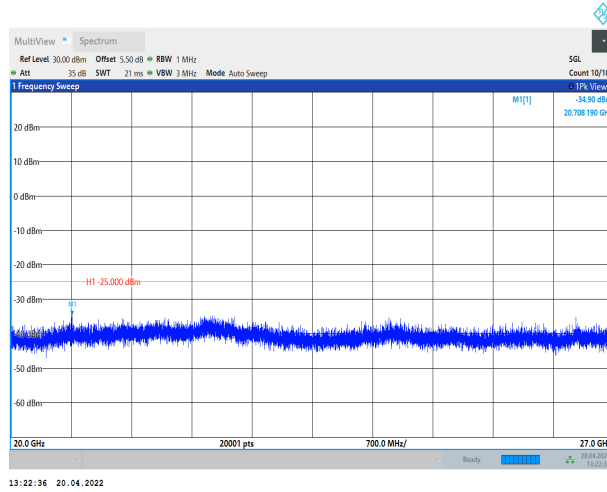


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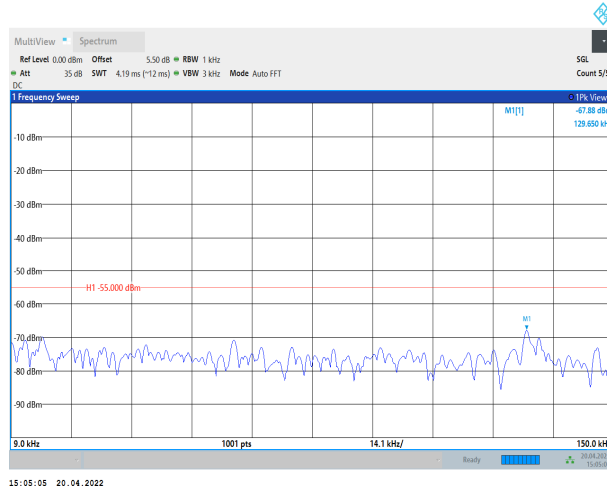
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38-38-20MHz-20MHz-QPSK-QPSK-37850-38048-1RB#0-0RB#0-20000~27000MHz



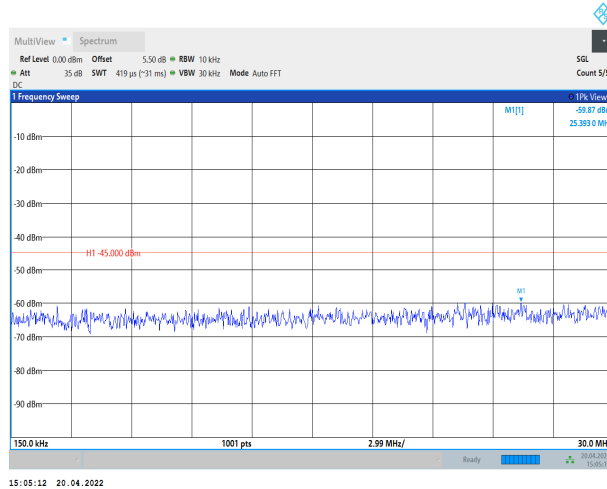
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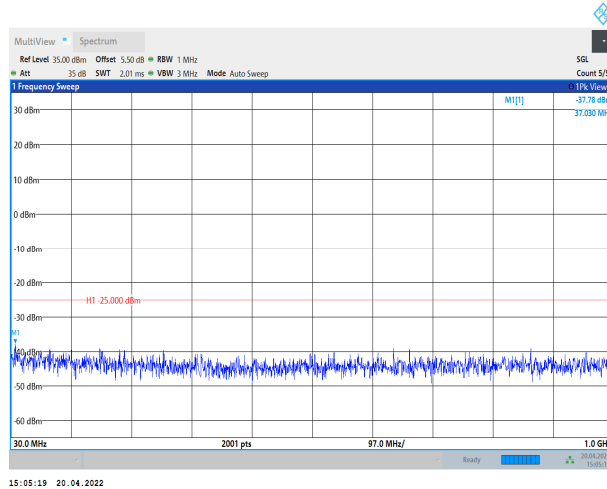
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38-38-20MHz-20MHz-QPSK-QPSK-37901-38099-1RB#0-0RB#0-0.15~30MHz

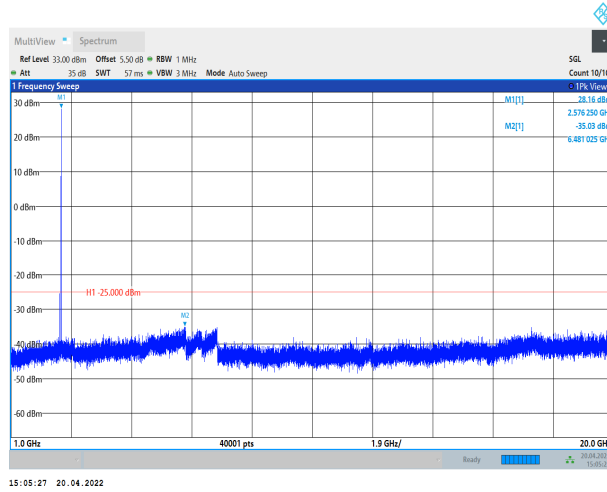


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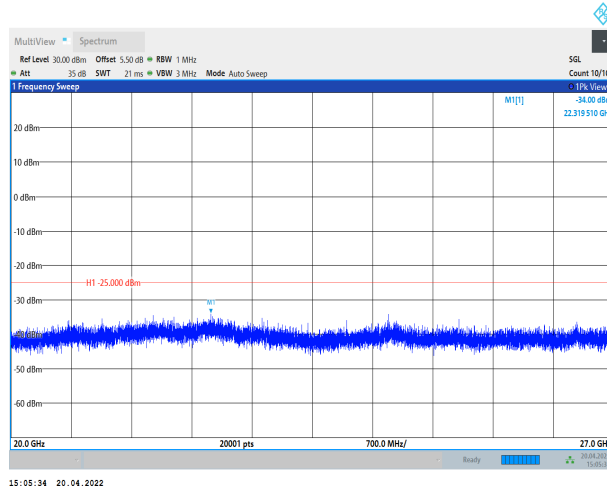


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38-38-20MHz-20MHz-QPSK-QPSK-37901-38099-1RB#0-0RB#0-20000~27000MHz

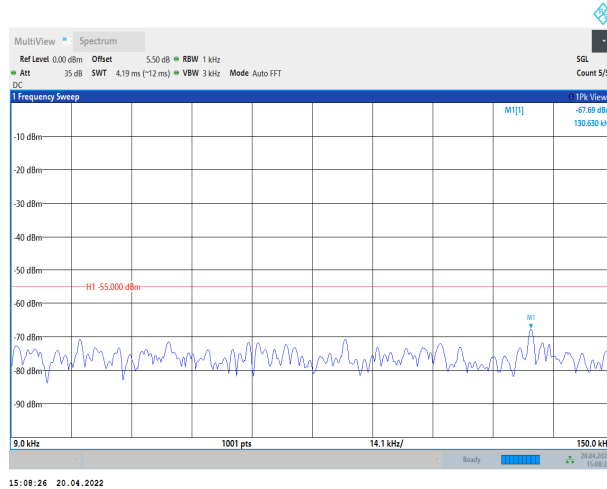


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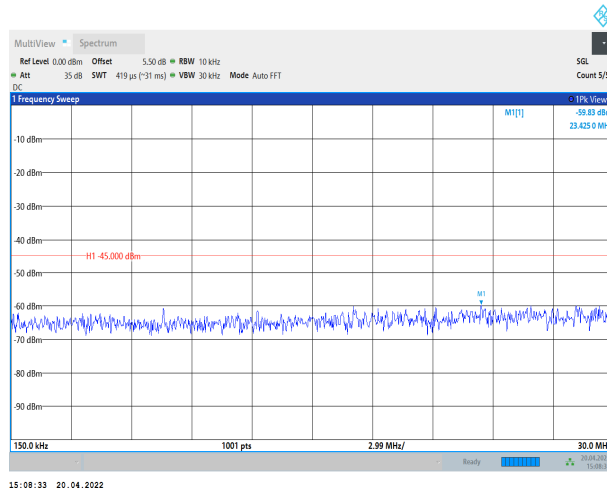
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38-38-20MHz-20MHz-QPSK-QPSK-37952-38150-1RB#0-0RB#0-0.009~0.15MHz

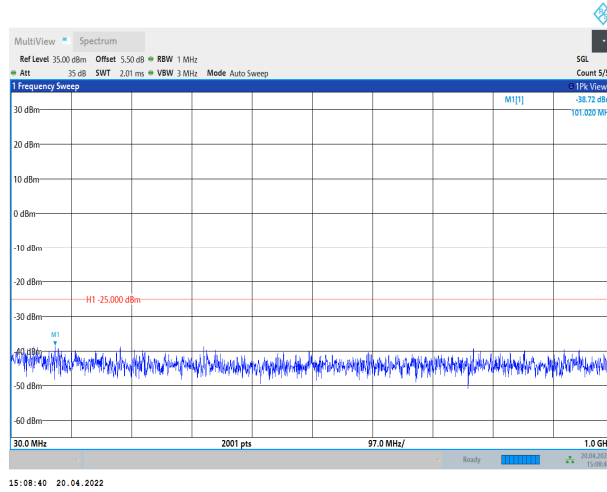


38-38-20MHz-20MHz-QPSK-QPSK-37952-38150-1RB#0-0RB#0-0.15~30MHz

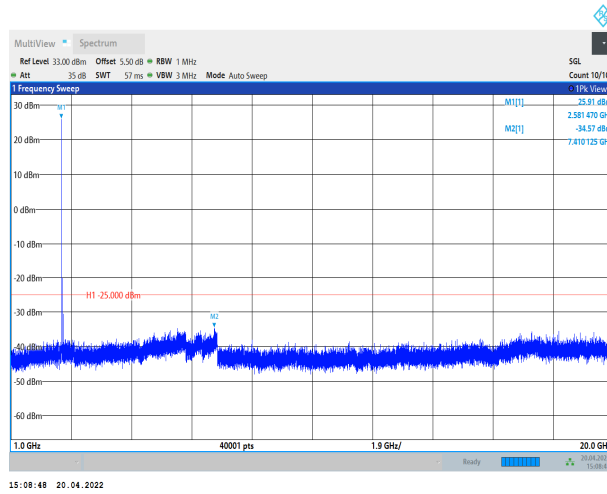


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38-38-20MHz-20MHz-QPSK-QPSK-37952-38150-1RB#0-0RB#0-30~1000MHz



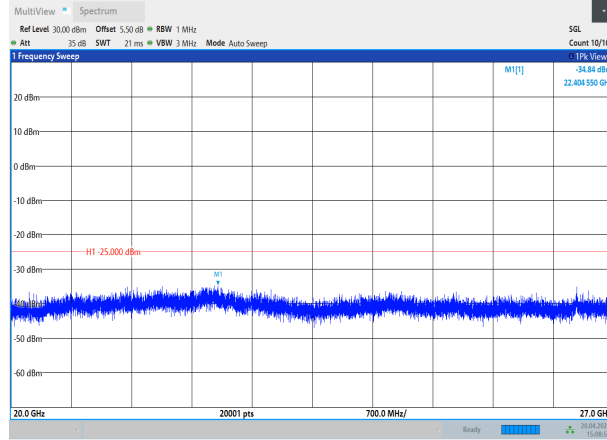
38-38-20MHz-20MHz-QPSK-QPSK-37952-38150-1RB#0-0RB#0-1000~20000MHz



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38-38-20MHz-20MHz-QPSK-QPSK-37952-38150-1RB#0-0RB#0-20000~27000MHz



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## Field Strength of Spurious Radiation

Test Band = UL CA Band 38C\_ TM1

Test Channel = Low Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5142.18	51.27	-106.89	-55.62	-25.00	30.62	263	232	Horizontal
2	7713.27	49.83	-99.56	-49.73	-25.00	24.73	241	345	Horizontal
3	10284.36	43.72	-93.24	-49.52	-25.00	24.52	176	69	Horizontal
4	12855.45	43.03	-90.76	-47.73	-25.00	22.73	262	345	Horizontal
5	15426.54	42.77	-90.57	-47.80	-25.00	22.80	251	3	Horizontal
6	17997.63	39.51	-84.09	-44.58	-25.00	19.58	184	34	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5142.18	53.36	-106.89	-53.53	-25.00	28.53	263	3	Vertical
2	7713.27	49.80	-99.56	-49.76	-25.00	24.76	320	218	Vertical
3	10284.36	44.08	-93.24	-49.16	-25.00	24.16	251	22	Vertical
4	12855.45	43.92	-90.76	-46.84	-25.00	21.84	175	297	Vertical
5	15426.54	41.37	-90.57	-49.20	-25.00	24.20	241	57	Vertical
6	17997.63	38.99	-84.09	-45.10	-25.00	20.10	188	321	Vertical



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 t (86-512) 62992980 sgs.china@sgs.com

**Test Band = UL CA Band 38C\_ TM1**
**Test Channel = Mid Channel**

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5152.38	50.63	-106.87	-56.24	-25.00	31.24	263	272	Horizontal
2	7728.57	49.35	-99.42	-50.07	-25.00	25.07	251	182	Horizontal
3	10304.76	43.21	-93.24	-50.03	-25.00	25.03	142	3	Horizontal
4	12880.95	43.94	-90.68	-46.74	-25.00	21.74	262	182	Horizontal
5	15457.14	41.99	-90.70	-48.71	-25.00	23.71	284	360	Horizontal
6	17912.1429	42.38	-84.12	-41.74	-25.00	16.74	177	357	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5152.38	50.36	-106.87	-56.51	-25.00	31.51	252	357	Vertical
2	7728.57	49.59	-99.42	-49.83	-25.00	24.83	251	204	Vertical
3	10304.76	43.63	-93.24	-49.61	-25.00	24.61	147	147	Vertical
4	12880.95	44.35	-90.68	-46.33	-25.00	21.33	263	135	Vertical
5	15457.14	42.44	-90.70	-48.26	-25.00	23.26	244	33	Vertical
6	17850	42.46	-84.20	-41.74	-25.00	16.74	132	360	Vertical



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**Test Band = UL CA Band 38C\_ TM1**
**Test Channel = High Channel**

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5162.58	49.20	-106.86	-57.66	-25.00	32.66	263	360	Horizontal
2	7743.87	48.83	-99.29	-50.46	-25.00	25.46	241	266	Horizontal
3	10325.16	44.12	-93.14	-49.02	-25.00	24.02	178	173	Horizontal
4	12906.45	43.70	-90.62	-46.92	-25.00	21.92	265	312	Horizontal
5	15487.74	41.20	-90.83	-49.63	-25.00	24.63	255	344	Horizontal
6	17850	42.97	-84.20	-41.23	-25.00	16.23	187	149	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5162.58	49.30	-106.86	-57.56	-25.00	32.56	263	360	Vertical
2	7743.87	50.15	-99.29	-49.14	-25.00	24.14	214	298	Vertical
3	10325.16	43.29	-93.14	-49.85	-25.00	24.85	175	298	Vertical
4	12906.45	42.65	-90.62	-47.97	-25.00	22.97	262	332	Vertical
5	15487.74	42.18	-90.83	-48.65	-25.00	23.65	251	360	Vertical
6	17852.1429	43.21	-84.19	-40.98	-25.00	15.98	144	68	Vertical



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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	38.80	0.015009	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	VL	NT	30.60	0.011837	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	VN	NT	43.50	0.016827	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	40.20	0.015551	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	20	55.40	0.021431	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	10	51.10	0.019767	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	0	34.90	0.013500	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	-10	37.20	0.014390	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	-20	47.00	0.018181	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	-30	40.70	0.015744	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	-50	48.60	0.018800	PASS

---End of Attachment---



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