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Rev.: 01  
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# Appendix B.21

## LTE CA\_38C



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## Effective (Isotropic) Radiated Power Output Data

### Test Result

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	23.49	27.49	33	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37825-37975	75RB#0-75RB#0	22.46	26.46	33	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37925-38075	1RB#0-0RB#0	23.44	27.44	33	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37925-38075	75RB#0-75RB#0	22.42	26.42	33	PASS
38-38	15MHz-15MHz	QPSK-QPSK	38025-38175	1RB#0-0RB#0	23.37	27.37	33	PASS
38-38	15MHz-15MHz	QPSK-QPSK	38025-38175	75RB#0-75RB#0	22.53	26.53	33	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37825-37975	1RB#0-0RB#0	22.52	26.52	33	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37825-37975	75RB#0-75RB#0	21.46	25.46	33	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37925-38075	1RB#0-0RB#0	22.48	26.48	33	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37925-38075	75RB#0-75RB#0	21.41	25.41	33	PASS
38-38	15MHz-15MHz	16QAM-16QAM	38025-38175	1RB#0-0RB#0	22.41	26.41	33	PASS
38-38	15MHz-15MHz	16QAM-16QAM	38025-38175	75RB#0-75RB#0	21.53	25.53	33	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37825-37975	1RB#0-0RB#0	21.13	25.13	33	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37825-37975	75RB#0-75RB#0	20.46	24.46	33	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37925-38075	1RB#0-0RB#0	21.13	25.13	33	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37925-38075	75RB#0-75RB#0	20.41	24.41	33	PASS
38-38	15MHz-15MHz	64QAM-64QAM	38025-38175	1RB#0-0RB#0	20.99	24.99	33	PASS
38-38	15MHz-15MHz	64QAM-64QAM	38025-38175	75RB#0-75RB#0	20.53	24.53	33	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37850-38048	100RB#0-100RB#0	22.52	26.52	33	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37850-38048	1RB#0-0RB#0	23.52	27.52	33	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	22.40	26.4	33	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	1RB#0-0RB#0	23.48	27.48	33	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	100RB#0-100RB#0	22.46	26.46	33	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	1RB#0-0RB#0	23.48	27.48	33	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37850-38048	100RB#0-100RB#0	21.50	25.5	33	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37850-38048	1RB#0-0RB#0	22.57	26.57	33	PASS



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38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	100RB#0-100RB#0	21.41	25.41	33	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	1RB#0-0RB#0	22.54	26.54	33	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37952-38150	100RB#0-100RB#0	21.44	25.44	33	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37952-38150	1RB#0-0RB#0	22.53	26.53	33	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37850-38048	100RB#0-100RB#0	20.48	24.48	33	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37850-38048	1RB#0-0RB#0	21.17	25.17	33	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37901-38099	100RB#0-100RB#0	20.39	24.39	33	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37901-38099	1RB#0-0RB#0	21.12	25.12	33	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37952-38150	100RB#0-100RB#0	20.44	24.44	33	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37952-38150	1RB#0-0RB#0	21.12	25.12	33	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	8.38	13	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	8.28	13	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	100RB#0-100RB#0	8.50	13	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37850-38048	100RB#0-100RB#0	9.44	13	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	100RB#0-100RB#0	9.38	13	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37952-38150	100RB#0-100RB#0	9.48	13	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37850-38048	100RB#0-100RB#0	9.80	13	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37901-38099	100RB#0-100RB#0	9.82	13	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37952-38150	100RB#0-100RB#0	9.80	13	PASS

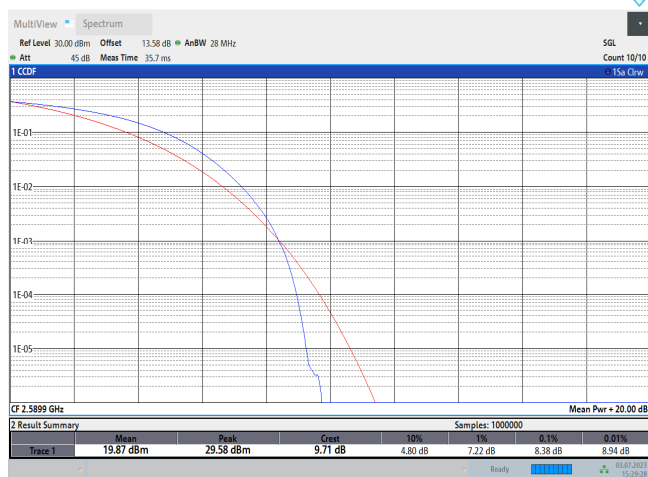


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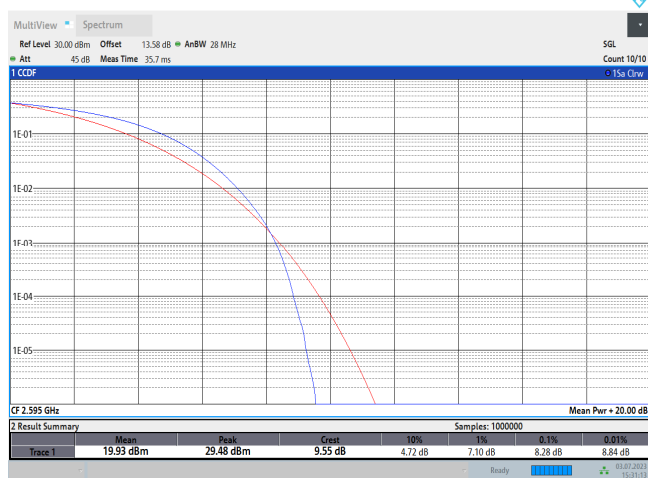
Test Graphs

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



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



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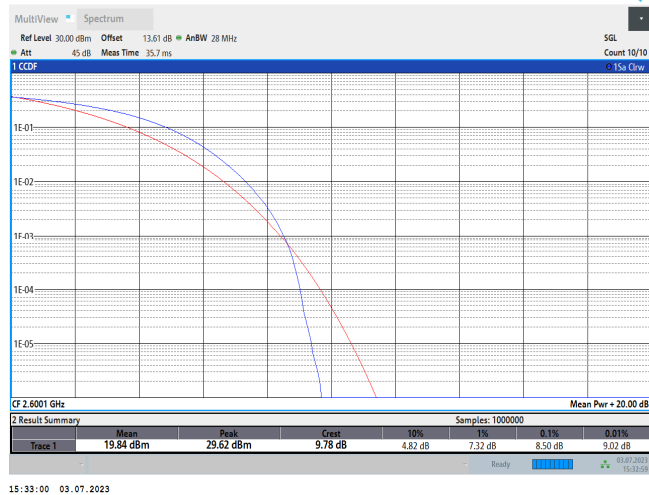


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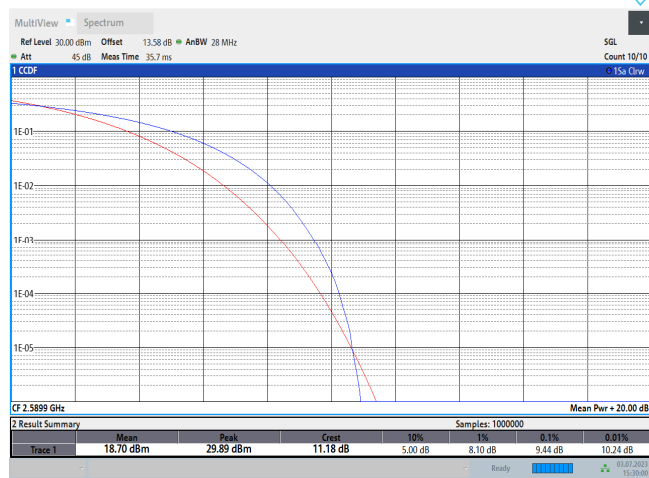


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38-38-20MHz-20MHz-16QAM-16QAM-37850-38048-100RB#0-100RB#0



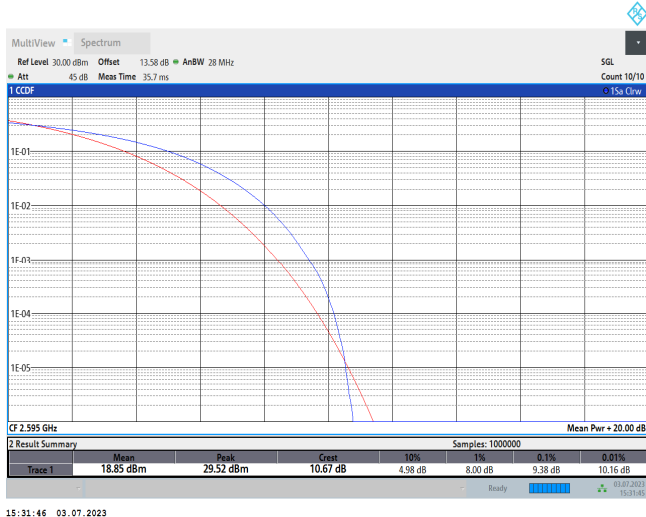
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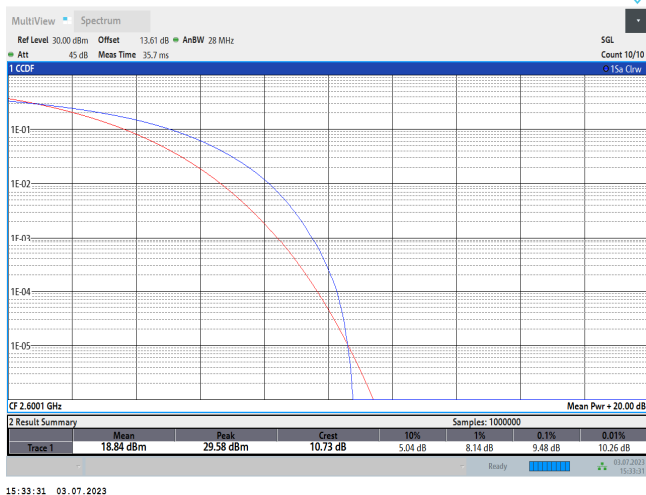


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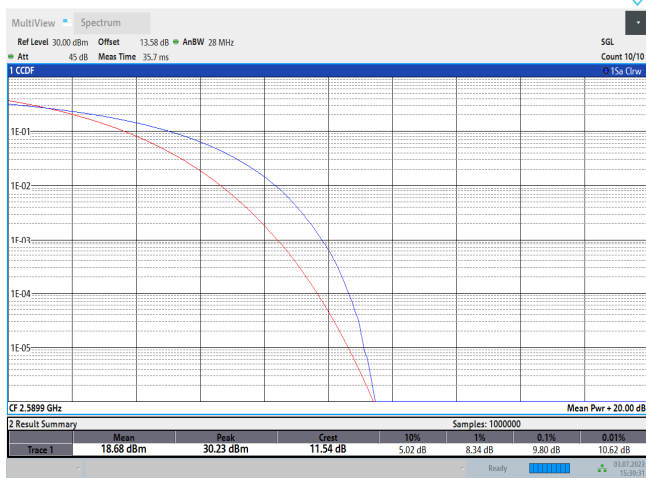
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38-38-20MHz-20MHz-16QAM-16QAM-37952-38150-100RB#0-100RB#0



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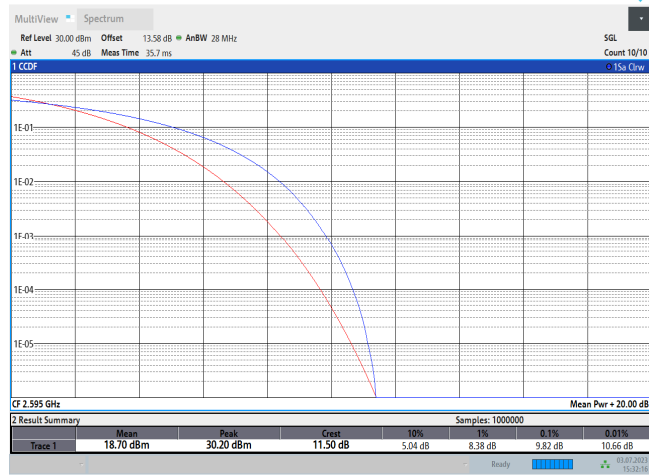


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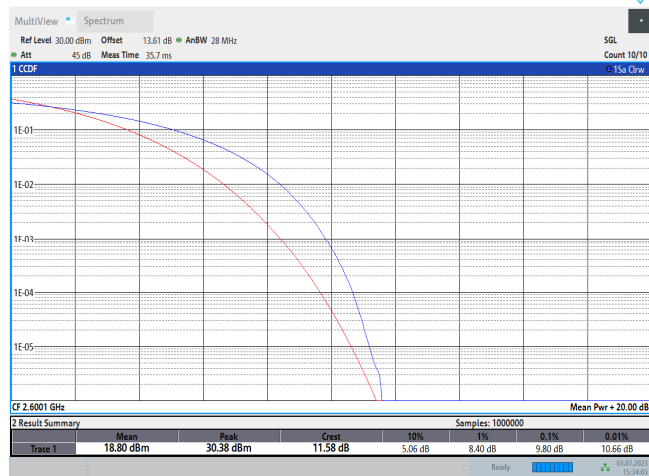


38-38-20MHz-20MHz-64QAM-64QAM-37901-38099-100RB#0-100RB#0



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



15:34:03 03.07.2023



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## Modulation Characteristics

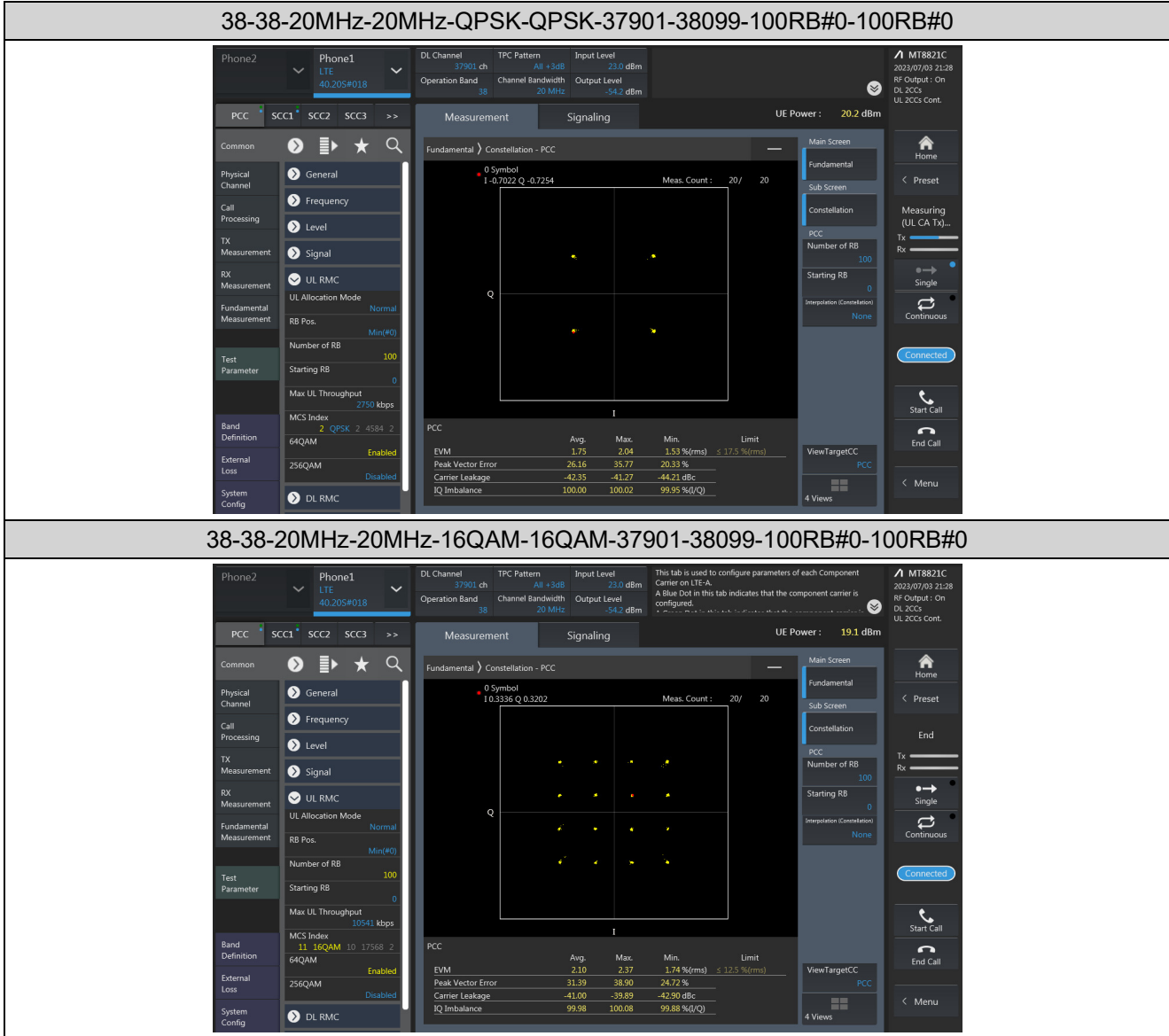
### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	PASS	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	100RB#0-100RB#0	PASS	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37901-38099	100RB#0-100RB#0	PASS	PASS



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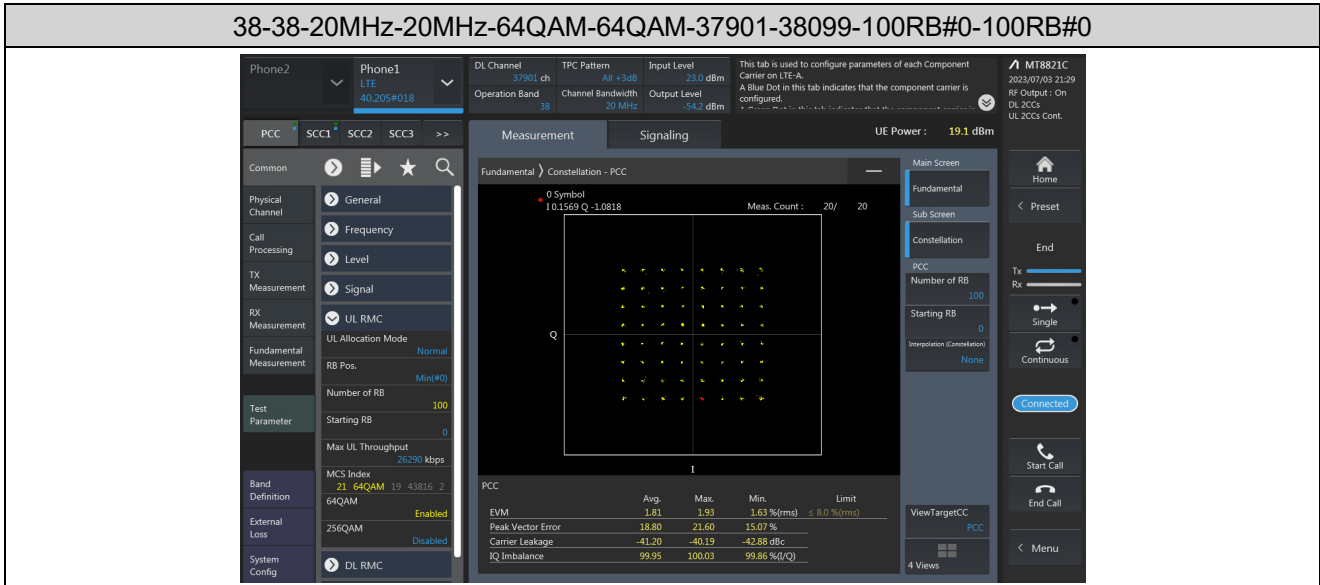
Test Graphs



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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	28.388	30.00	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37925-38075	75RB#0-75RB#0	28.379	30.00	PASS
38-38	15MHz-15MHz	QPSK-QPSK	38025-38175	75RB#0-75RB#0	28.396	30.00	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37825-37975	75RB#0-75RB#0	28.357	30.12	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37925-38075	75RB#0-75RB#0	28.342	30.12	PASS
38-38	15MHz-15MHz	16QAM-16QAM	38025-38175	75RB#0-75RB#0	28.333	30.12	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37825-37975	75RB#0-75RB#0	28.283	30.06	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37925-38075	75RB#0-75RB#0	28.281	30.12	PASS
38-38	15MHz-15MHz	64QAM-64QAM	38025-38175	75RB#0-75RB#0	28.26	30.06	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37850-38048	100RB#0-100RB#0	37.879	40.56	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	37.845	40.56	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	100RB#0-100RB#0	37.845	40.56	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37850-38048	100RB#0-100RB#0	37.81	40.32	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	100RB#0-100RB#0	37.797	40.40	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37952-38150	100RB#0-100RB#0	37.797	40.24	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37850-38048	100RB#0-100RB#0	37.739	40.56	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37901-38099	100RB#0-100RB#0	37.725	40.56	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37952-38150	100RB#0-100RB#0	37.715	40.40	PASS

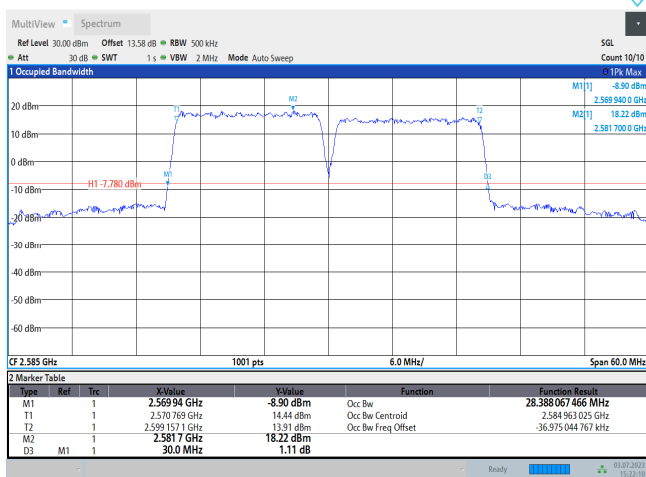


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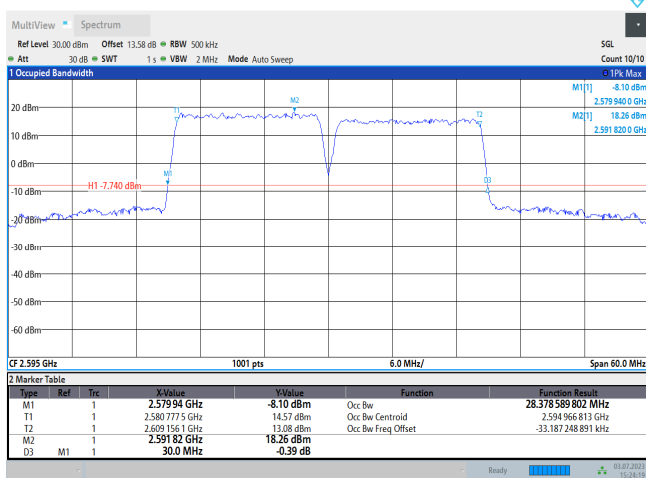
Test Graphs

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



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



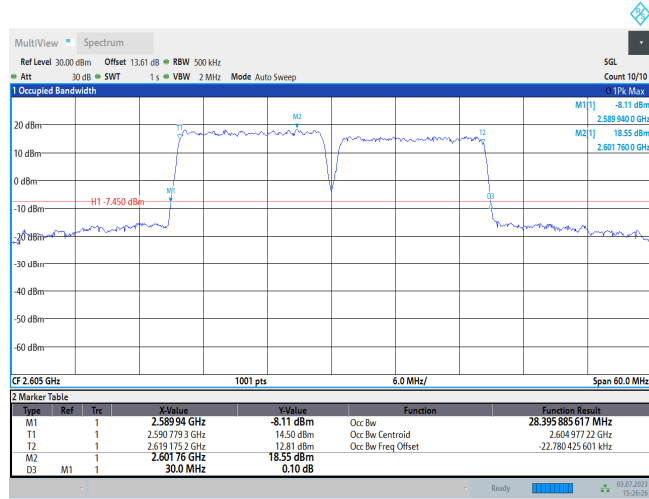
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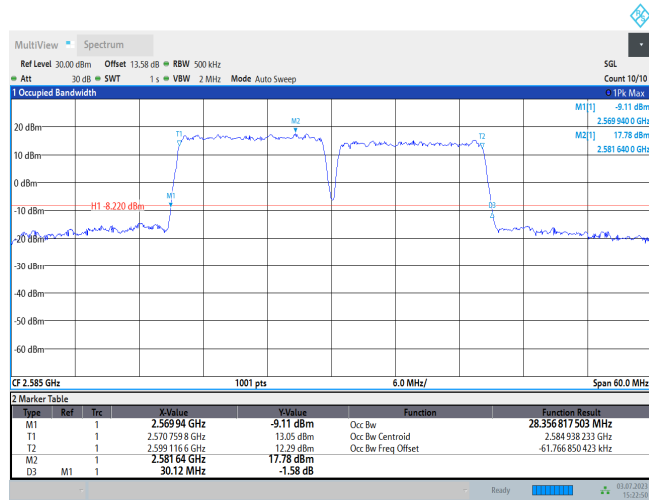


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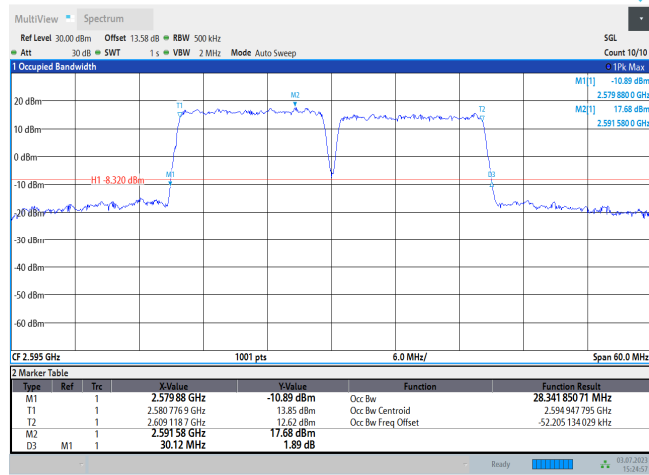
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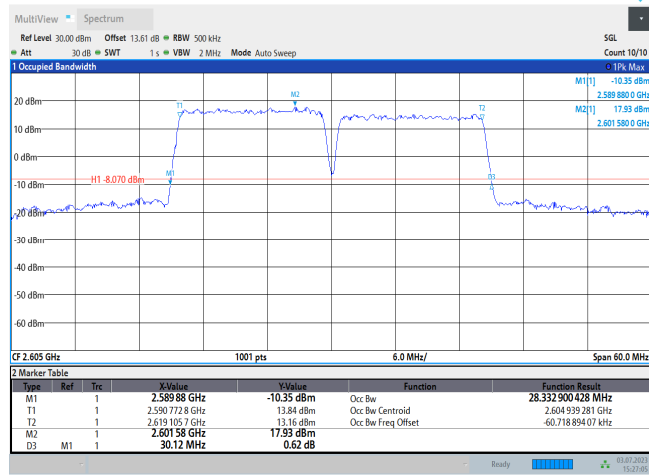
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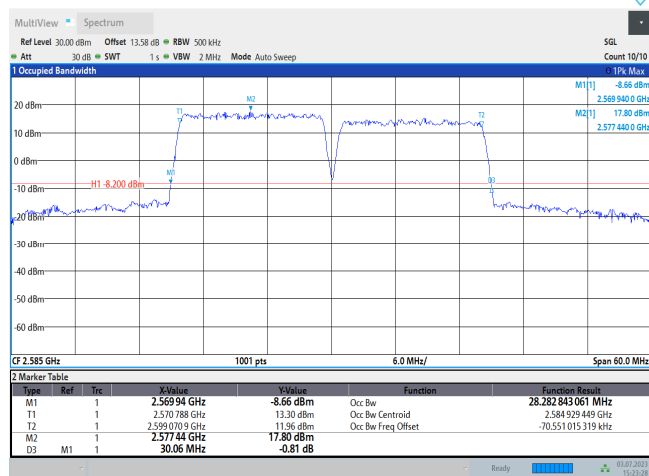
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38-38-15MHz-15MHz-16QAM-16QAM-38025-38175-75RB#0-75RB#0



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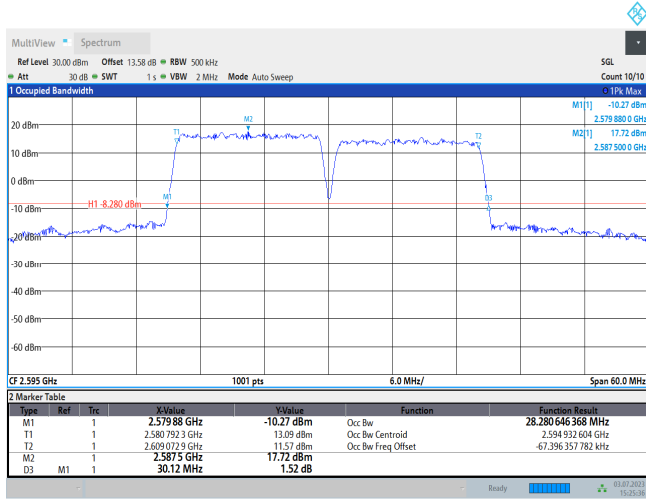


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38-38-15MHz-15MHz-64QAM-64QAM-37925-38075-75RB#0-75RB#0



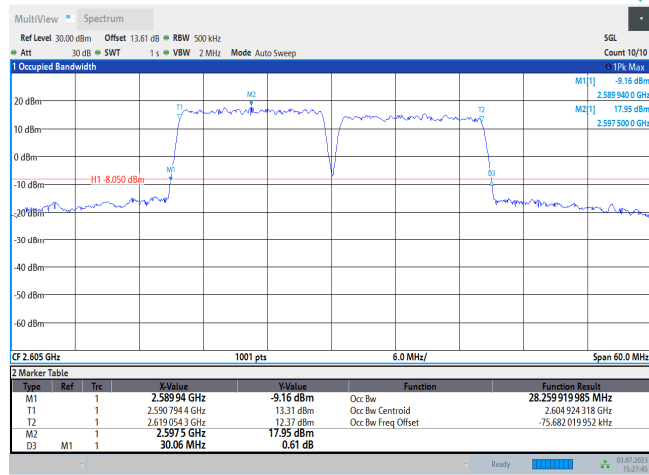
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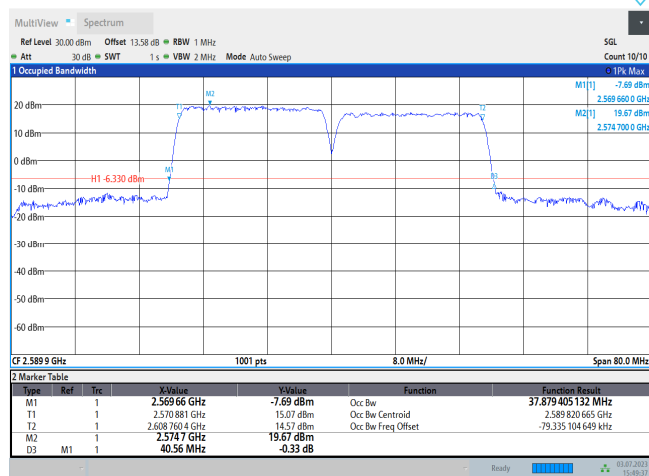
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38-38-15MHz-15MHz-64QAM-64QAM-38025-38175-75RB#0-75RB#0



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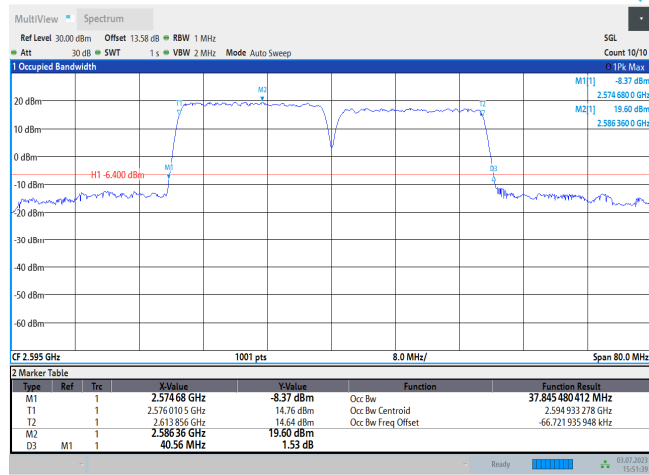


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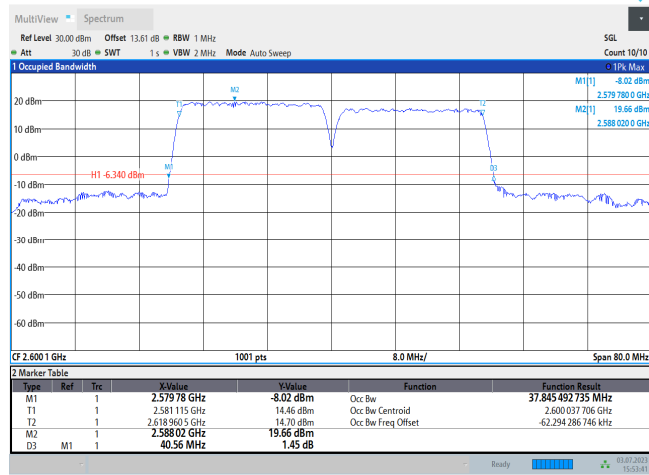


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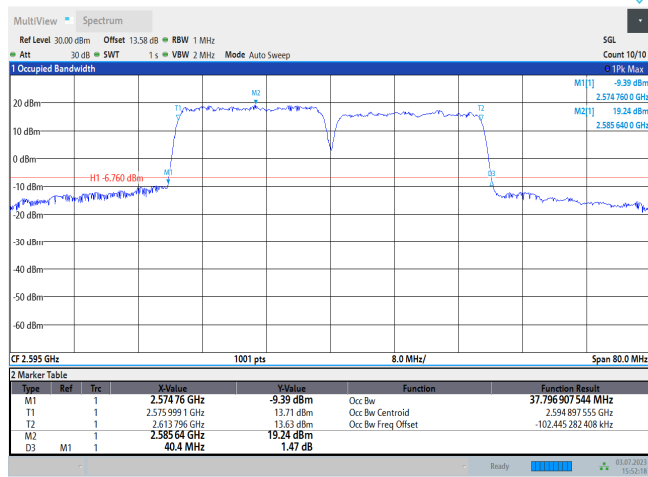
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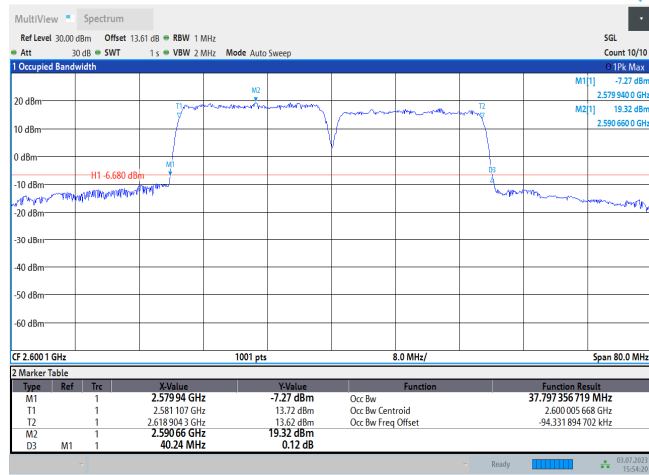


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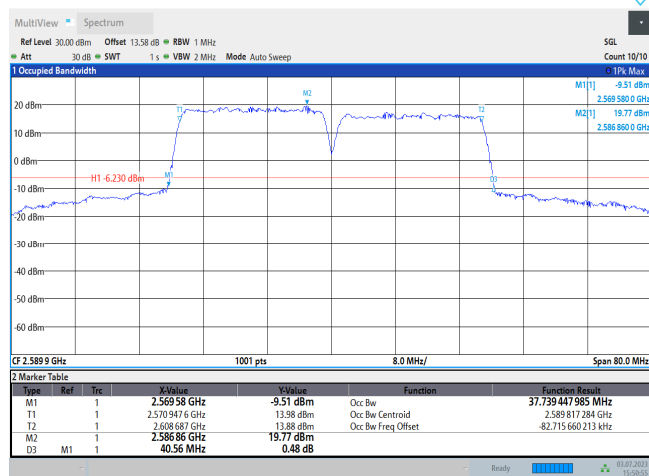
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### 38-38-20MHz-20MHz-16QAM-16QAM-37952-38150-100RB#0-100RB#0



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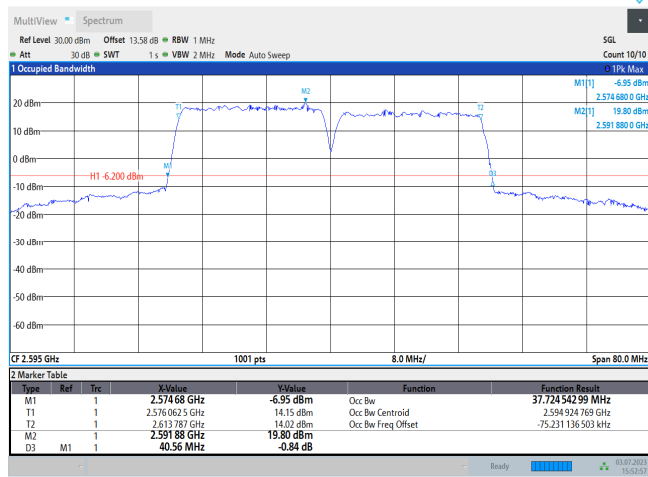
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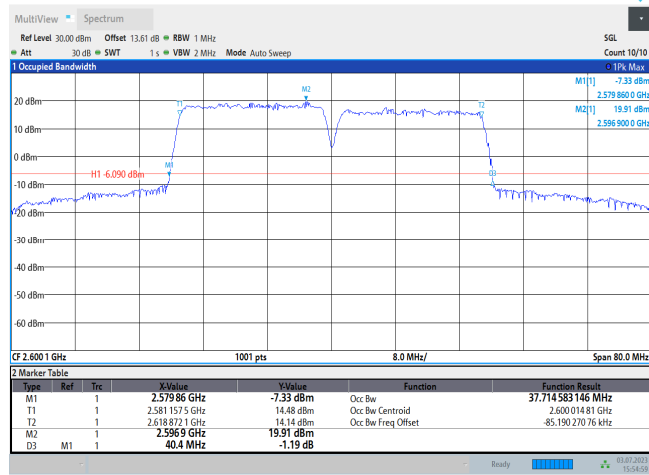
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38-38-20MHz-20MHz-64QAM-64QAM-37952-38150-100RB#0-100RB#0



15:55:00 03.07.2023



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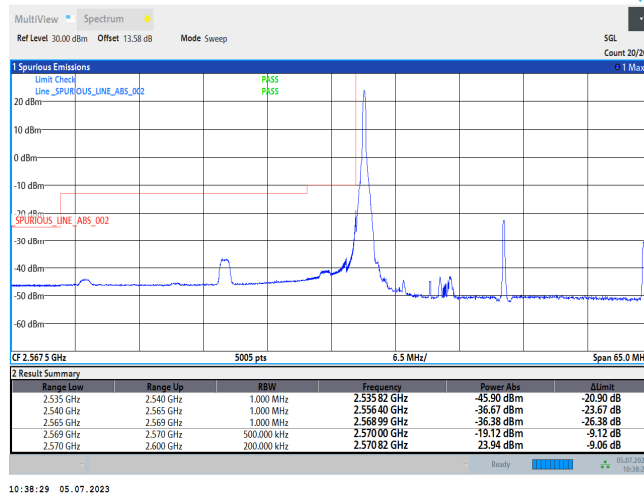
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## Band Edge

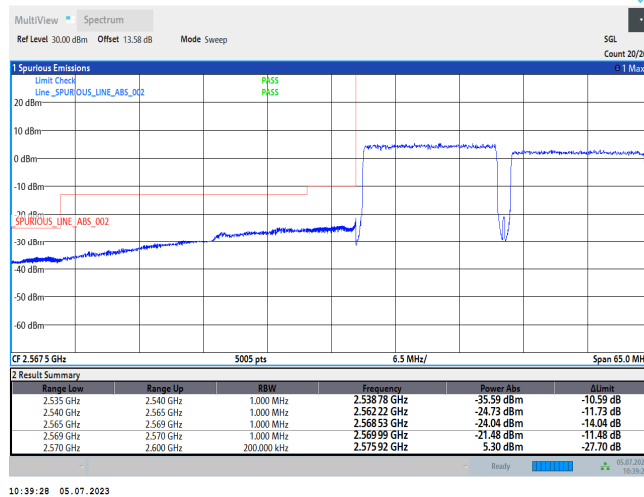
## Test Graphs

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



10:38:29 05.07.2023

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



10:39:28 05.07.2023

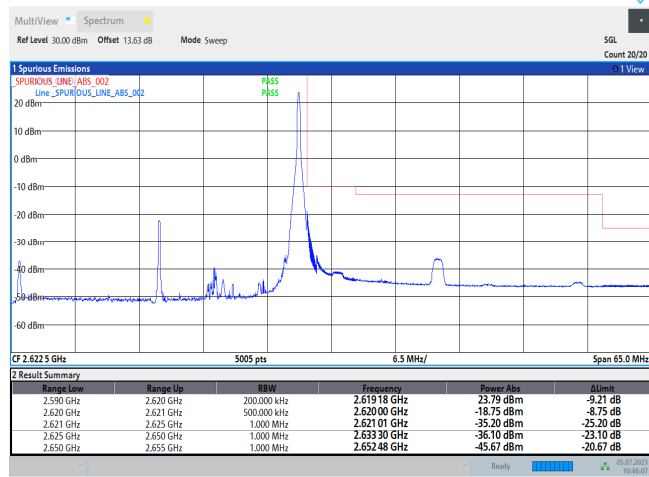


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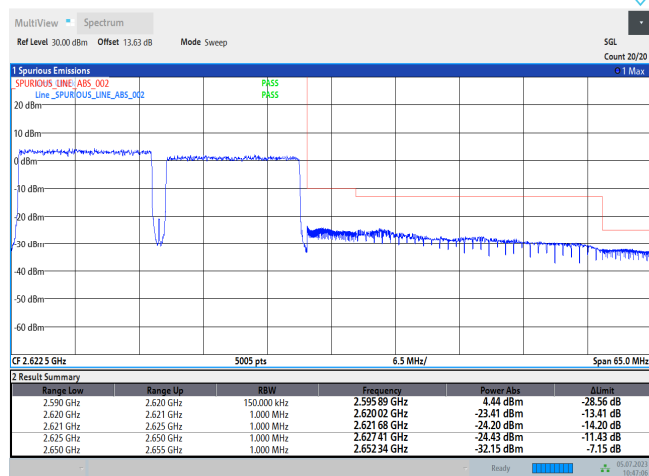


38-38-15MHz-15MHz-QPSK-QPSK-38025-38175-0RB#0-1RB#74



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



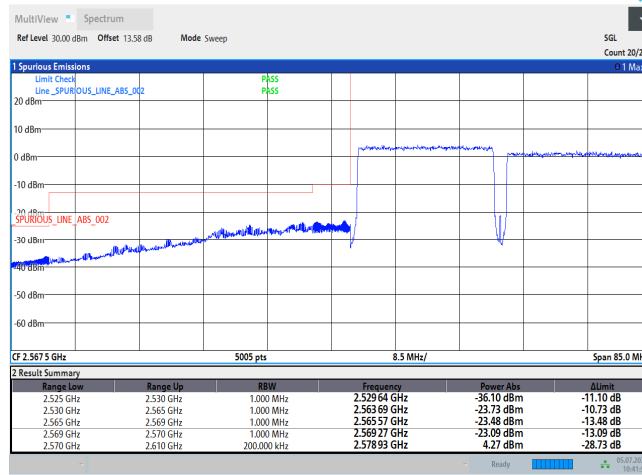
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38-38-20MHz-20MHz-QPSK-QPSK-37850-38048-100RB#0-100RB#0



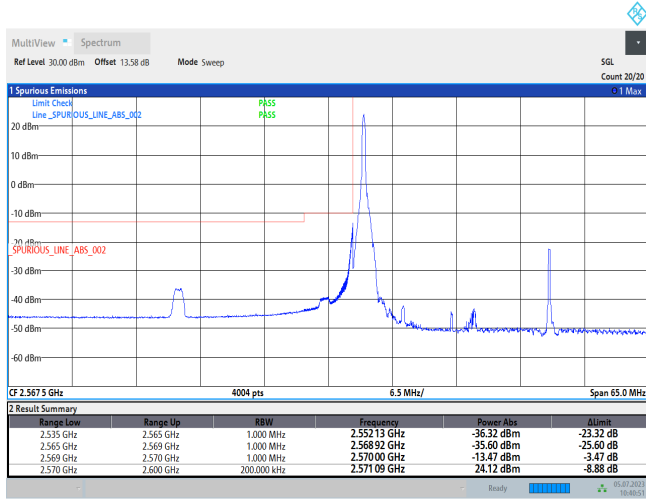
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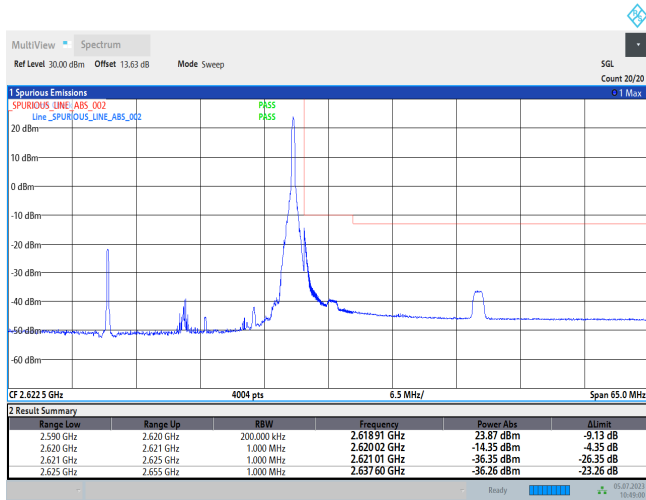
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### 38-38-20MHz-20MHz-QPSK-QPSK-37850-38048-1RB#0-0RB#0



10:40:52 05.07.2023

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



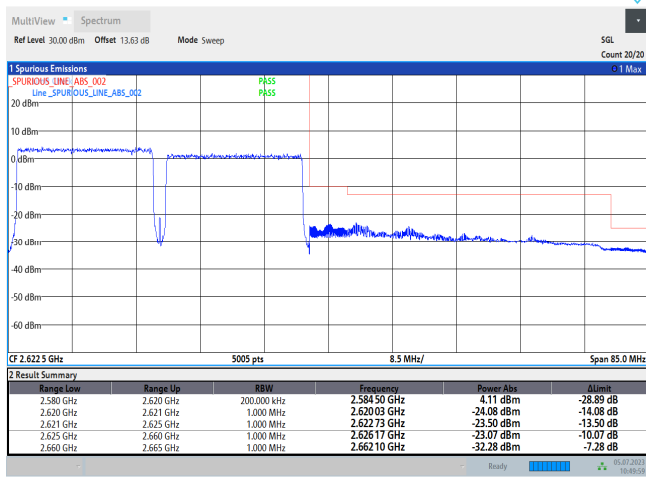
10:49:00 05.07.2023



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



10:49:59 05.07.2023



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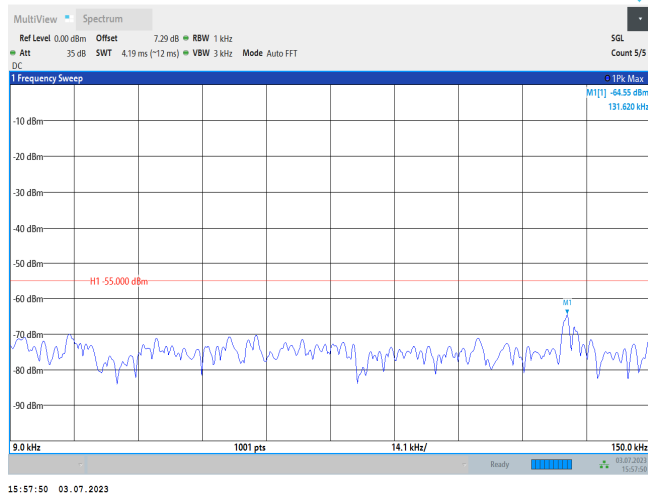
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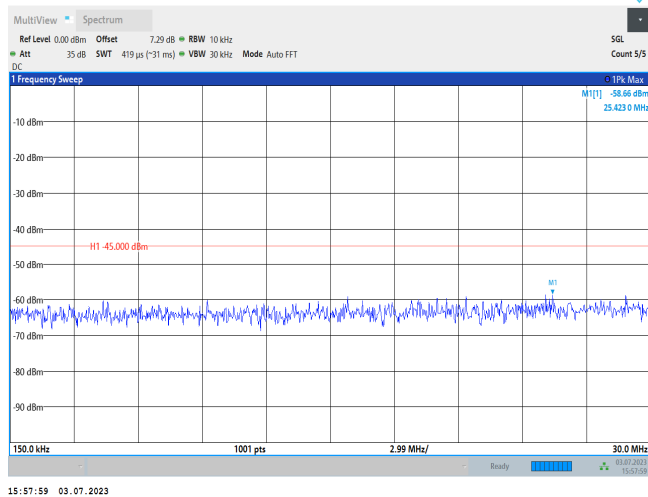
## Conducted Spurious Emission

### Test Graphs

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

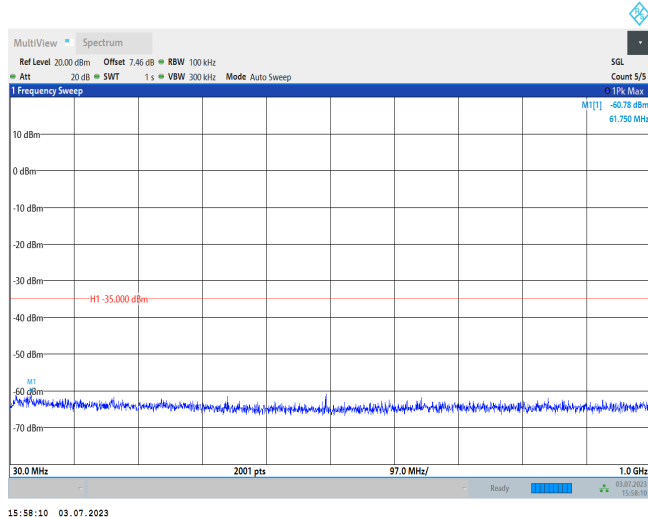


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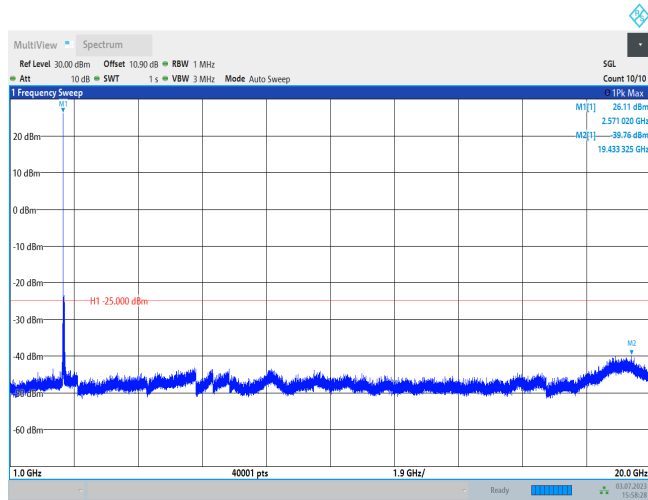
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38-38-20MHz-20MHz-QPSK-QPSK-37850-38048-1RB#0-0RB#0-30~1000MHz



15:58:10 03.07.2023

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



15:58:28 03.07.2023

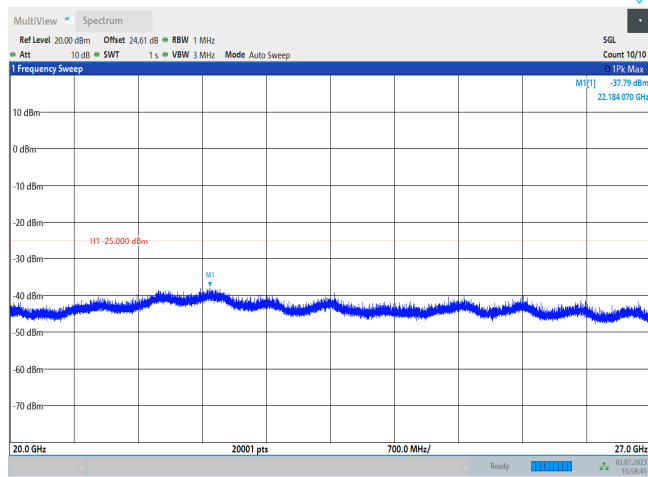


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38-38-20MHz-20MHz-QPSK-QPSK-37850-38048-1RB#0-0RB#0-20000~27000MHz



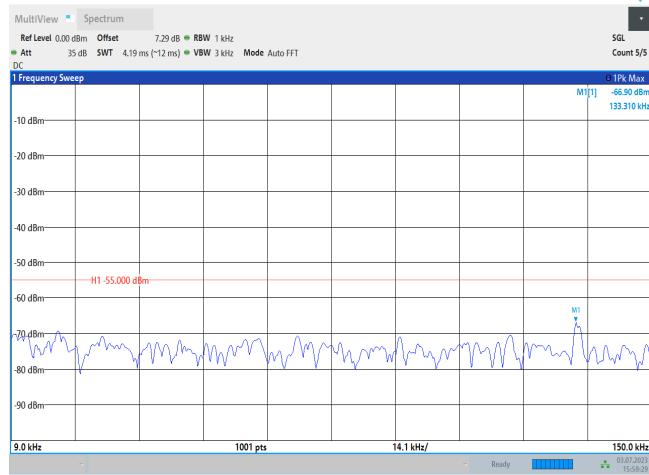
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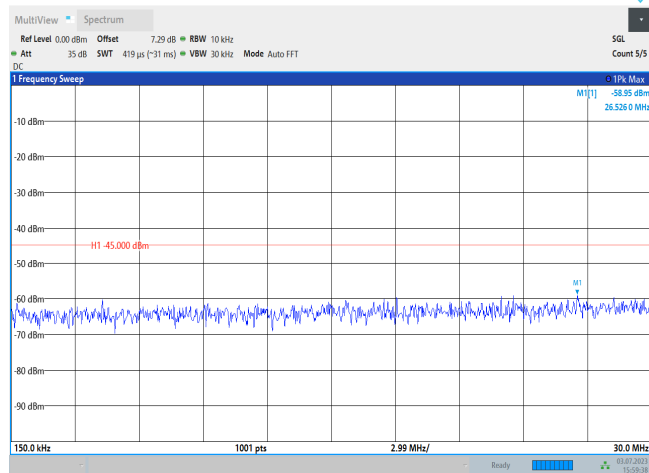
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38-38-20MHz-20MHz-QPSK-QPSK-37901-38099-1RB#0-0RB#0-0.009~0.15MHz



15:59:29 03.07.2023

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



15:59:38 03.07.2023



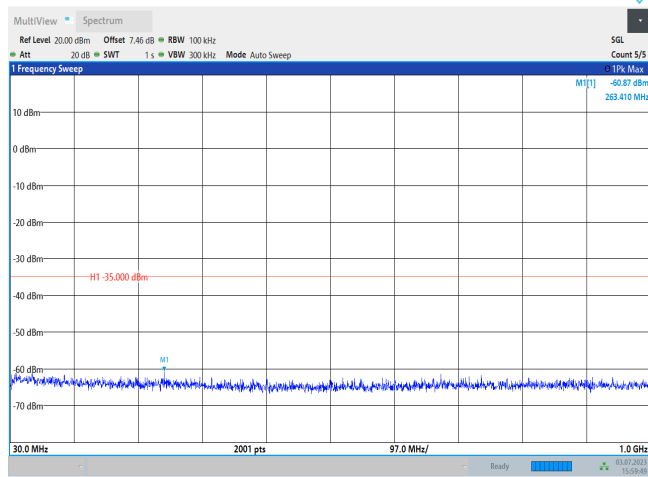
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38-38-20MHz-20MHz-QPSK-QPSK-37901-38099-1RB#0-0RB#0-30~1000MHz



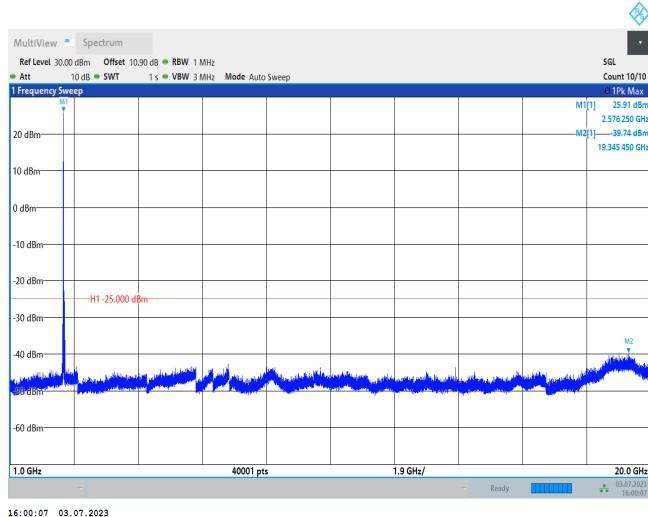
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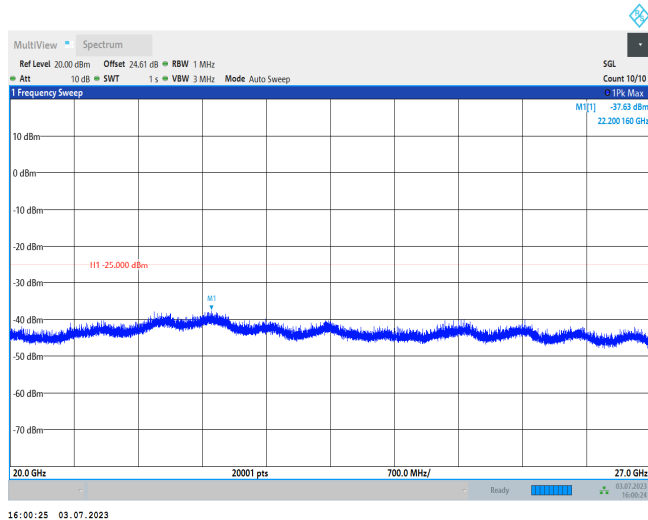
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38-38-20MHz-20MHz-QPSK-QPSK-37901-38099-1RB#0-0RB#0-1000~20000MHz



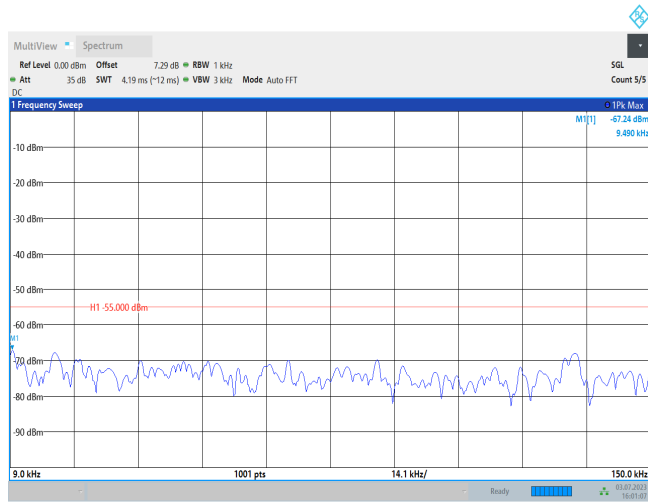
38-38-20MHz-20MHz-QPSK-QPSK-37901-38099-1RB#0-0RB#0-20000~27000MHz



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



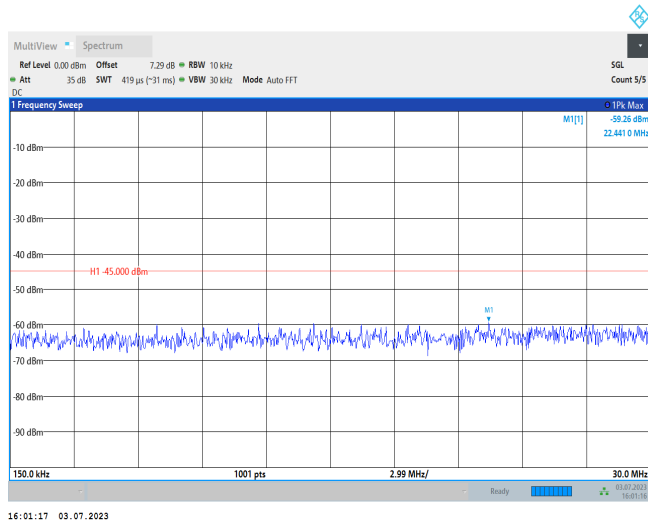
16:01:08 03.07.2023



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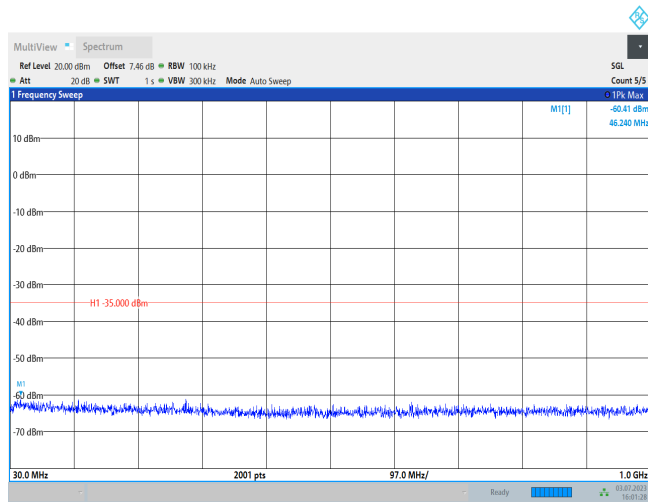
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### 38-38-20MHz-20MHz-QPSK-QPSK-37952-38150-1RB#0-0RB#0-0.15~30MHz



16:01:17 03.07.2023

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16:01:28 03.07.2023

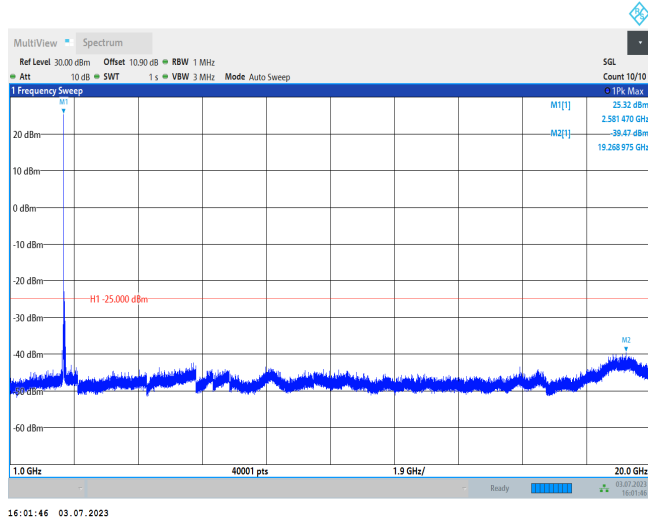


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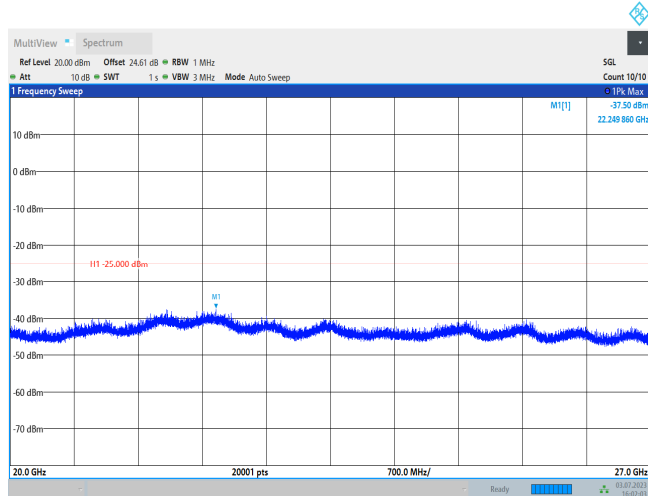


38-38-20MHz-20MHz-QPSK-QPSK-37952-38150-1RB#0-0RB#0-1000~20000MHz



16:01:46 03.07.2023

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



16:02:04 03.07.2023



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## Field Strength of Spurious Radiation

Test Band = LTE CA\_38C\_TM1

Test Channel = LCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	3000	39.14	-21.77	28.60	-49.29	-25.00	24.29	245	360	Horizontal
2	3901.236	49.27	-44.20	29.70	-60.49	-25.00	35.49	226	46	Horizontal
3	7389.7756	45.40	-38.34	36.66	-51.54	-25.00	26.54	367	224	Horizontal
4	9913.4765	43.37	-35.31	38.61	-48.59	-25.00	23.59	147	269	Horizontal
5	15184.0874	42.61	-35.92	39.80	-48.77	-25.00	23.77	112	148	Horizontal
6	17996.9999	41.01	-43.06	48.15	-49.16	-25.00	24.16	366	108	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	2999.5555	38.91	-21.77	28.60	-49.52	-25.00	24.52	296	354	Vertical
2	4217.4487	48.26	-43.53	29.67	-60.86	-25.00	35.86	332	20	Vertical
3	5593.9038	47.61	-41.46	32.55	-56.56	-25.00	31.56	221	24	Vertical
4	8844.8338	43.88	-36.30	36.77	-50.91	-25.00	25.91	178	149	Vertical
5	9904.4762	43.98	-35.08	38.60	-47.76	-25.00	22.76	296	42	Vertical
6	15175.087	42.79	-36.27	39.85	-48.89	-25.00	23.89	332	220	Vertical



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Test Band = LTE CA\_38C\_TM1

Test Channel = MCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	2999.3333	38.83	-21.77	28.60	-49.60	-25.00	24.60	246	148	Horizontal
2	3912.0365	48.77	-44.20	29.75	-60.94	-25.00	35.94	332	300	Horizontal
3	5674.307	47.53	-41.22	32.50	-56.45	-25.00	31.45	210	163	Horizontal
4	7868.5947	44.67	-37.61	36.69	-51.51	-25.00	26.51	221	220	Horizontal
5	11027.7211	44.28	-37.15	40.13	-48.00	-25.00	23.00	189	225	Horizontal
6	15196.0878	42.09	-35.44	39.72	-48.89	-25.00	23.89	223	242	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	2999.5555	39.02	-21.77	28.60	-49.41	-25.00	24.41	245	143	Vertical
2	3707.4283	48.62	-44.54	29.34	-61.84	-25.00	36.84	226	236	Vertical
3	5172.0869	48.89	-42.54	31.84	-57.07	-25.00	32.07	325	272	Vertical
4	7028.5611	45.88	-39.55	35.94	-52.99	-25.00	27.99	222	0	Vertical
5	9881.0752	43.27	-35.11	38.45	-48.65	-25.00	23.65	111	169	Vertical
6	16402.7361	42.64	-34.84	38.81	-48.65	-25.00	23.65	236	192	Vertical



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Test Band = LTE CA\_38C\_TM1

Test Channel = HCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	2997.1108	39.16	-21.77	28.58	-49.29	-25.00	24.29	266	162	Horizontal
2	3935.4374	49.07	-44.19	29.84	-60.54	-25.00	35.54	324	287	Horizontal
3	5182.2873	49.13	-42.54	31.86	-56.81	-25.00	31.81	188	229	Horizontal
4	7447.9779	45.53	-38.28	36.80	-51.21	-25.00	26.21	256	176	Horizontal
5	11034.3214	44.17	-37.19	40.13	-48.15	-25.00	23.15	332	65	Horizontal
6	16409.3364	42.57	-34.89	38.85	-48.73	-25.00	23.73	222	21	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	2999.111	38.95	-21.77	28.59	-49.49	-25.00	24.49	199	192	Vertical
2	3925.837	48.84	-44.19	29.80	-60.81	-25.00	35.81	365	146	Vertical
3	7864.9946	45.22	-37.63	36.71	-50.96	-25.00	25.96	255	75	Vertical
4	10971.9189	44.20	-37.11	40.13	-48.04	-25.00	23.04	148	101	Vertical
5	13640.2256	43.69	-37.91	40.14	-49.34	-25.00	24.34	269	208	Vertical
6	16484.9394	42.46	-35.50	39.22	-49.08	-25.00	24.08	332	21	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

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	15.40	0.005957	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	VL	NT	9.60	0.003714	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	VN	NT	5.20	0.002012	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	50	16.40	0.006344	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	40	15.60	0.006035	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	30	9.90	0.003830	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	20	13.00	0.005029	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	10	6.40	0.002476	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	0	10.20	0.003946	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	-10	12.80	0.004951	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	-20	6.50	0.002514	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	-30	6.30	0.002437	PASS

---End of Attachment---



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