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Appendix B.19

LTE CA_38C



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Effective (Isotropic) Radiated Power Output Data

Test Result

Ant31:

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	23.90	26.20	33	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37825-37975	75RB#0-75RB#0	22.11	24.41	33	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37925-38075	1RB#0-0RB#0	24.01	26.31	33	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37925-38075	75RB#0-75RB#0	22.27	24.57	33	PASS
38-38	15MHz-15MHz	QPSK-QPSK	38025-38175	1RB#0-0RB#0	23.86	26.16	33	PASS
38-38	15MHz-15MHz	QPSK-QPSK	38025-38175	75RB#0-75RB#0	22.30	24.60	33	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37825-37975	1RB#0-0RB#0	22.86	25.16	33	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37825-37975	75RB#0-75RB#0	21.26	23.56	33	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37925-38075	1RB#0-0RB#0	22.86	25.16	33	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37925-38075	75RB#0-75RB#0	21.27	23.57	33	PASS
38-38	15MHz-15MHz	16QAM-16QAM	38025-38175	1RB#0-0RB#0	23.05	25.35	33	PASS
38-38	15MHz-15MHz	16QAM-16QAM	38025-38175	75RB#0-75RB#0	21.16	23.46	33	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37825-37975	1RB#0-0RB#0	21.28	23.58	33	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37825-37975	75RB#0-75RB#0	21.01	23.31	33	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37925-38075	1RB#0-0RB#0	21.61	23.91	33	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37925-38075	75RB#0-75RB#0	20.98	23.28	33	PASS
38-38	15MHz-15MHz	64QAM-64QAM	38025-38175	1RB#0-0RB#0	21.61	23.91	33	PASS
38-38	15MHz-15MHz	64QAM-64QAM	38025-38175	75RB#0-75RB#0	21.22	23.52	33	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37850-38048	100RB#0-100RB#0	21.85	24.15	33	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37850-38048	1RB#0-0RB#0	23.15	25.45	33	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	21.83	24.13	33	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	1RB#0-0RB#0	23.47	25.77	33	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	100RB#0-100RB#0	21.79	24.09	33	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	1RB#0-0RB#0	23.16	25.46	33	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37850-38048	100RB#0-100RB#0	20.68	22.98	33	PASS



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38-38	20MHz-20MHz	16QAM-16QAM	37850-38048	1RB#0-0RB#0	22.13	24.43	33	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	100RB#0-100RB#0	20.77	23.07	33	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	1RB#0-0RB#0	22.13	24.43	33	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37952-38150	100RB#0-100RB#0	20.79	23.09	33	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37952-38150	1RB#0-0RB#0	22.27	24.57	33	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37850-38048	100RB#0-100RB#0	20.79	23.09	33	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37850-38048	1RB#0-0RB#0	20.90	23.20	33	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37901-38099	100RB#0-100RB#0	20.86	23.16	33	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37901-38099	1RB#0-0RB#0	21.05	23.35	33	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37952-38150	100RB#0-100RB#0	20.87	23.17	33	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37952-38150	1RB#0-0RB#0	20.79	23.09	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	10.02	13	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	10.00	13	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	100RB#0-100RB#0	9.98	13	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37850-38048	100RB#0-100RB#0	10.14	13	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	100RB#0-100RB#0	10.18	13	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37952-38150	100RB#0-100RB#0	10.20	13	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37850-38048	100RB#0-100RB#0	10.30	13	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37901-38099	100RB#0-100RB#0	10.26	13	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37952-38150	100RB#0-100RB#0	10.22	13	PASS



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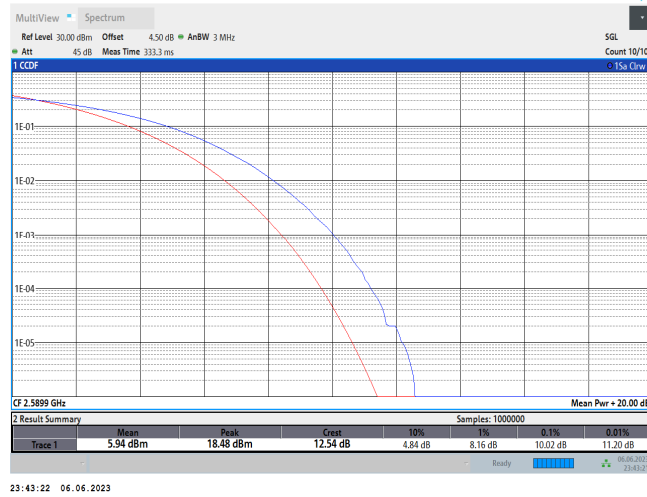
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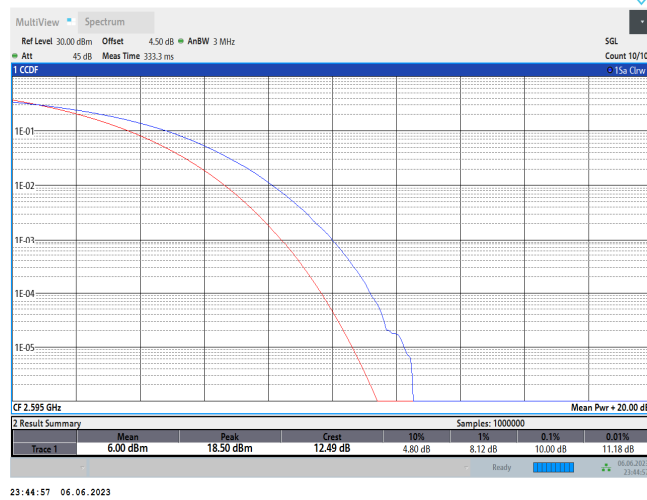
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Test Graphs

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



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



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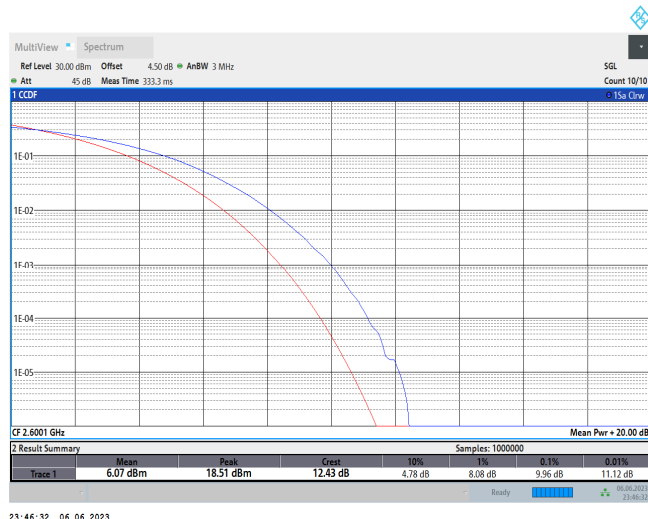
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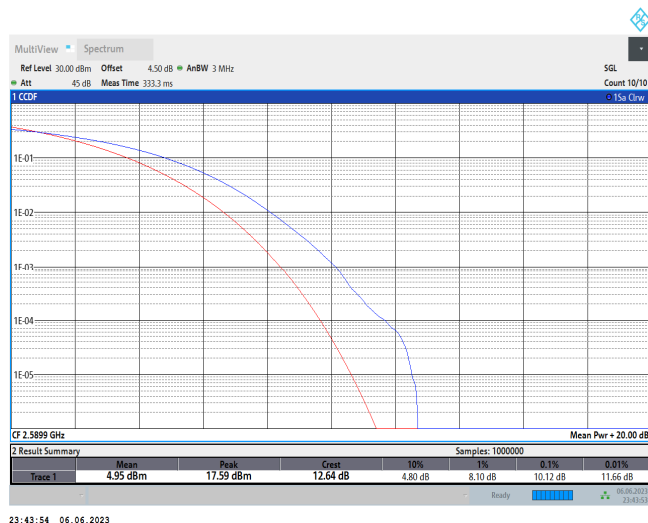
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38-38-20MHz-20MHz-16QAM-16QAM-37850-38048-100RB#0-100RB#0



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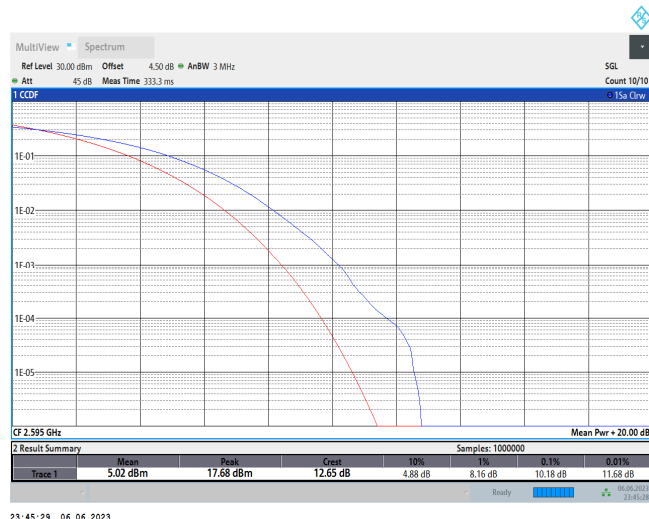
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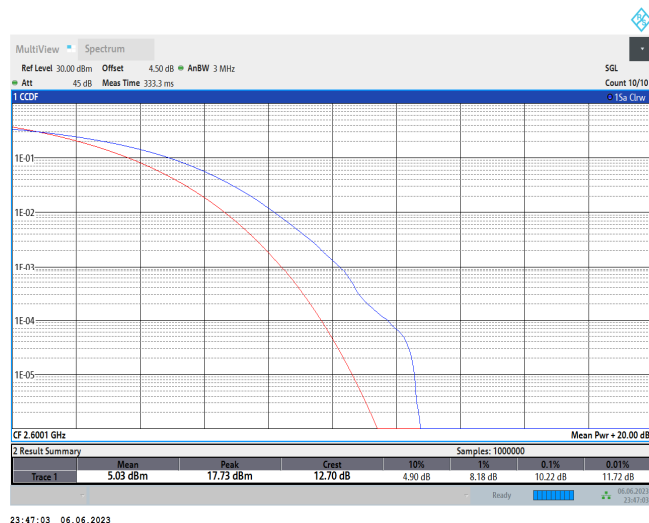
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38-38-20MHz-20MHz-16QAM-16QAM-37901-38099-100RB#0-100RB#0



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



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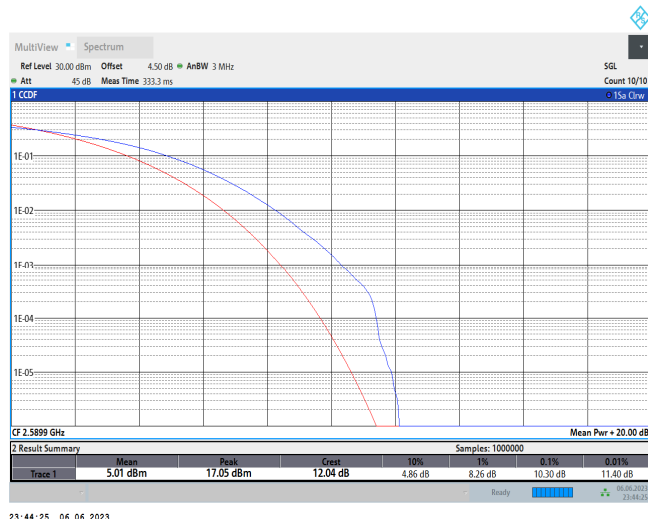
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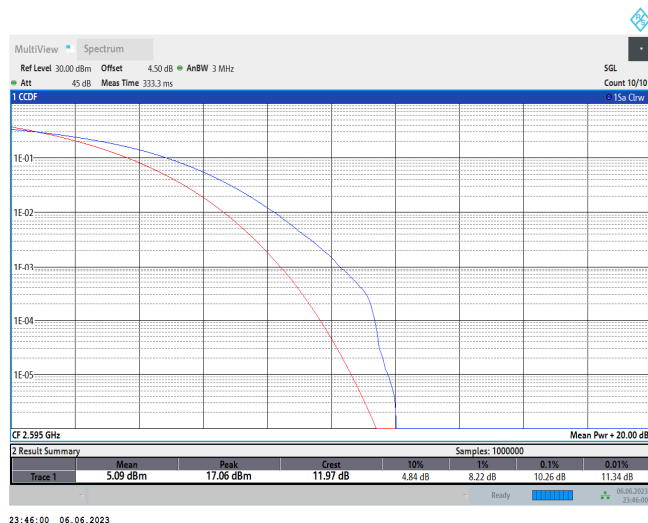
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38-38-20MHz-20MHz-64QAM-64QAM-37901-38099-100RB#0-100RB#0



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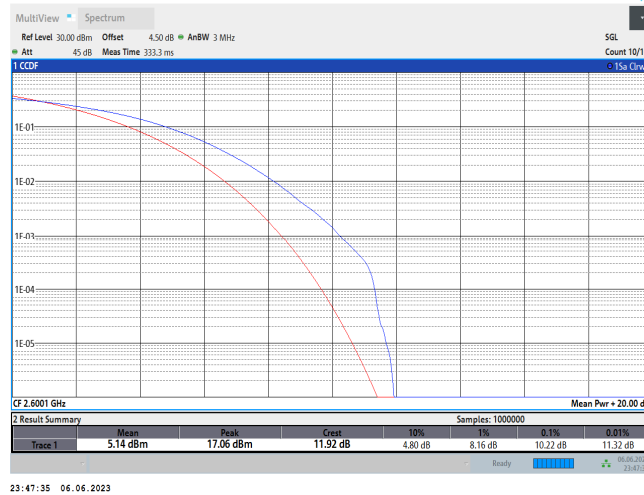
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Modulation Characteristics

Test Result

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



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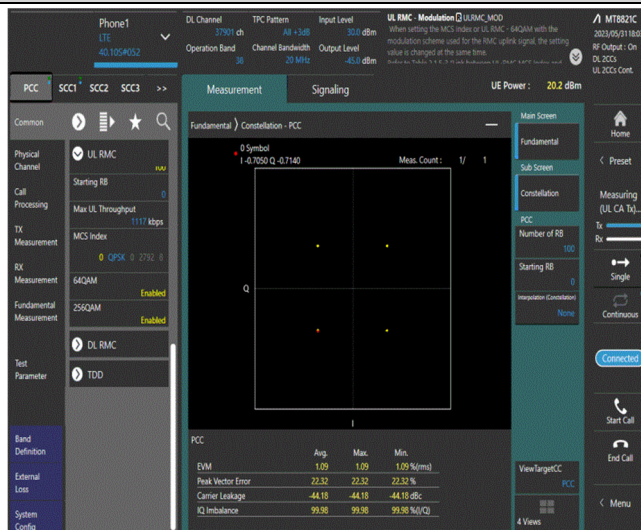
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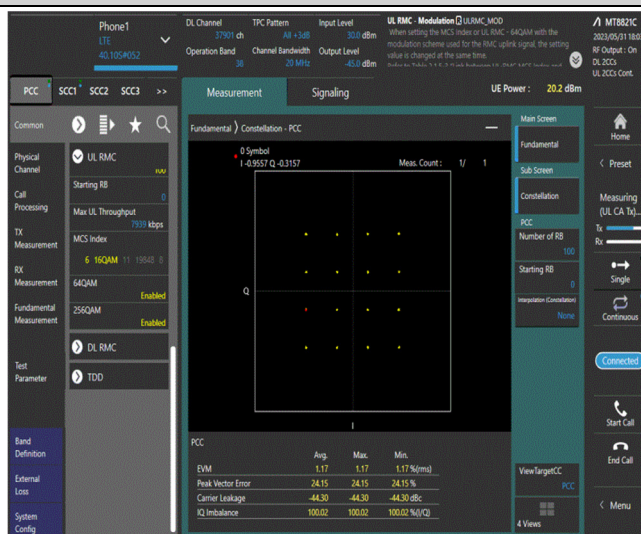
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Test Graphs

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



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

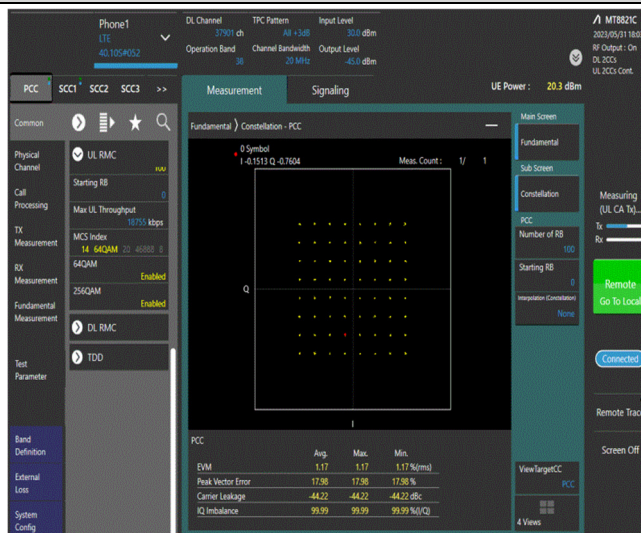


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38-38-20MHz-20MHz-64QAM-64QAM-37901-38099-100RB#0-100RB#0



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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	28.313	31.44	PASS
38-38	15MHz-15MHz	QPSK-QPSK	38025-38175	75RB#0-75RB#0	28.346	31.32	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37925-38075	75RB#0-75RB#0	28.289	30.90	PASS
38-38	15MHz-15MHz	16QAM-16QAM	38025-38175	75RB#0-75RB#0	28.276	30.84	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37925-38075	75RB#0-75RB#0	28.194	30.24	PASS
38-38	15MHz-15MHz	64QAM-64QAM	38025-38175	75RB#0-75RB#0	28.213	30.48	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	37.765	41.44	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	100RB#0-100RB#0	37.748	41.68	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	100RB#0-100RB#0	37.665	40.48	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37952-38150	100RB#0-100RB#0	37.653	40.48	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37901-38099	100RB#0-100RB#0	37.61	41.60	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37952-38150	100RB#0-100RB#0	37.6	41.60	PASS



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Test Graphs

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



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



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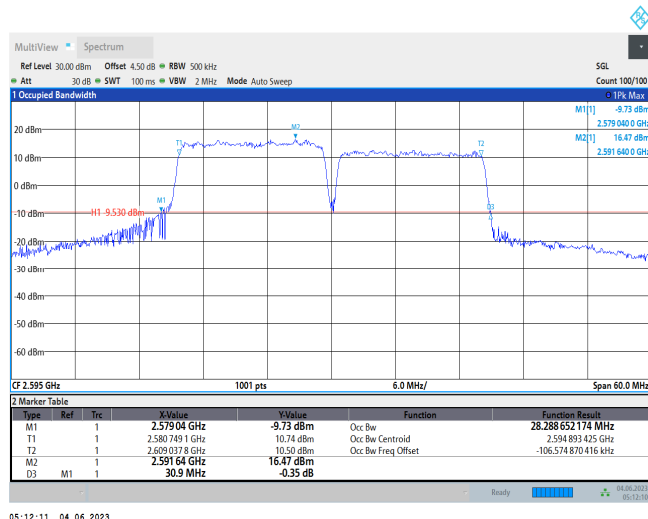
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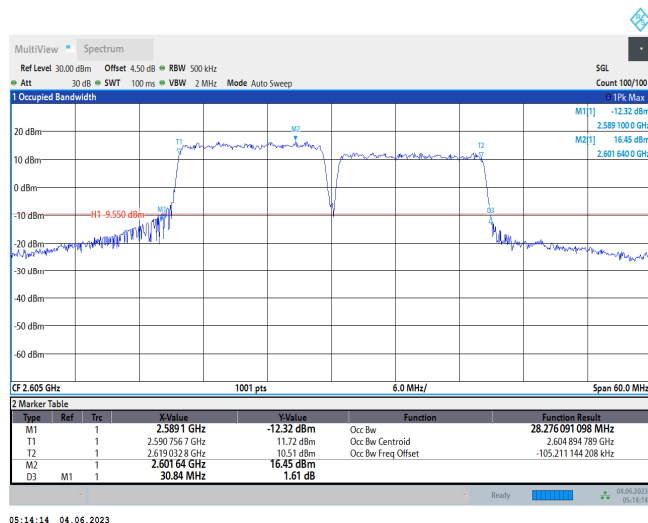
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38-38-15MHz-15MHz-16QAM-16QAM-37925-38075-75RB#0-75RB#0



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

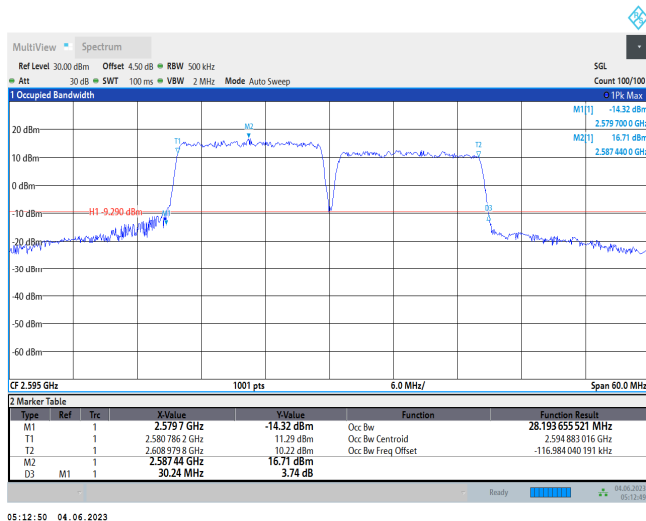


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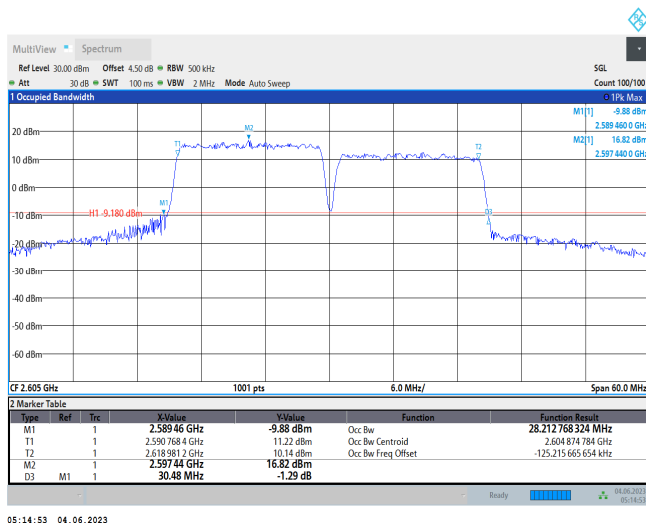
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38-38-15MHz-15MHz-64QAM-64QAM-37925-38075-75RB#0-75RB#0



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

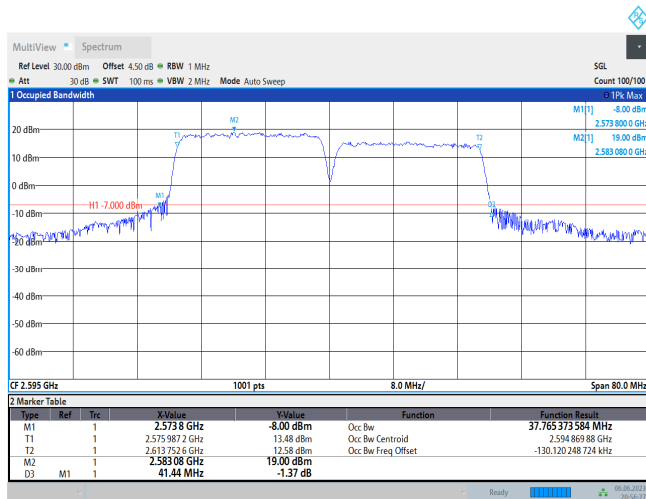


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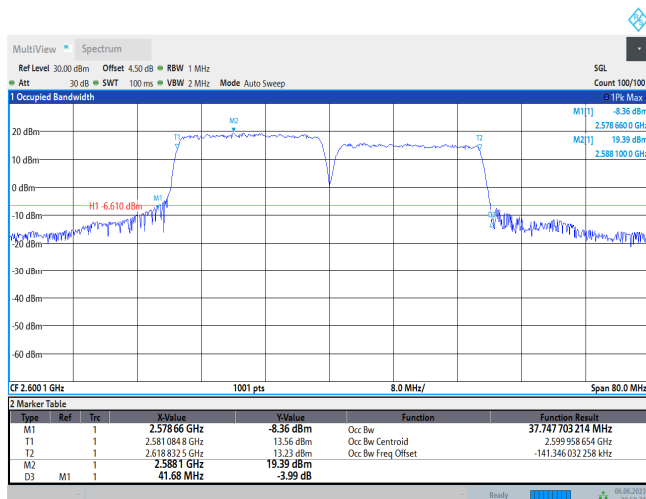
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38-38-20MHz-20MHz-QPSK-QPSK-37901-38099-100RB#0-100RB#0



20:56:27 06.06.2023

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



20:58:24 06.06.2023



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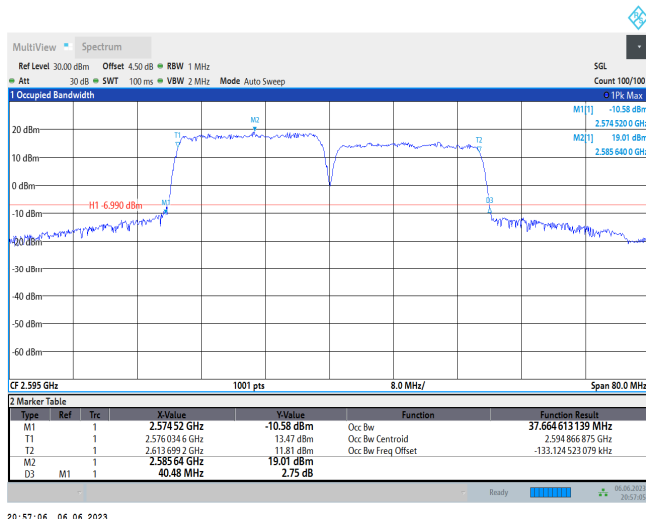
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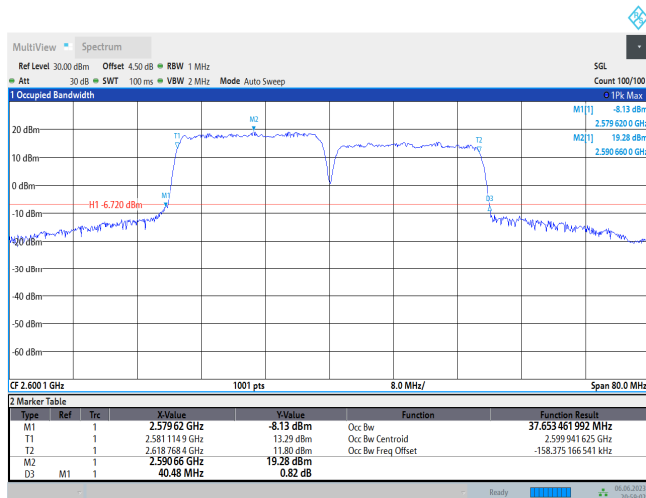
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38-38-20MHz-20MHz-16QAM-16QAM-37901-38099-100RB#0-100RB#0



20:57:06 06.06.2023

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



20:59:03 06.06.2023



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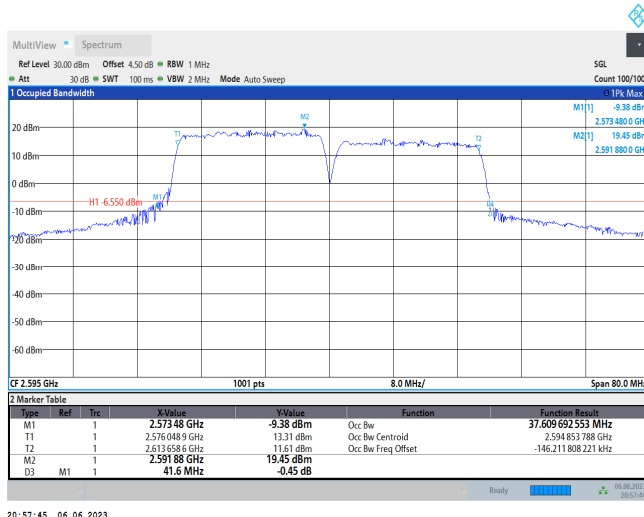
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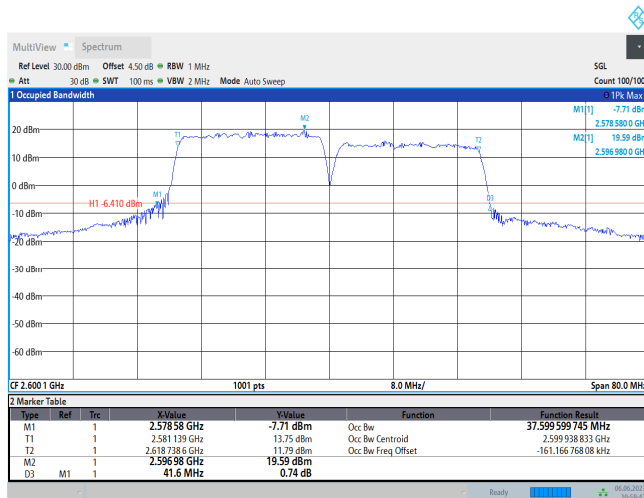
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38-38-20MHz-20MHz-64QAM-64QAM-37901-38099-100RB#0-100RB#0



20:57:45 06.06.2023

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



20:59:42 06.06.2023



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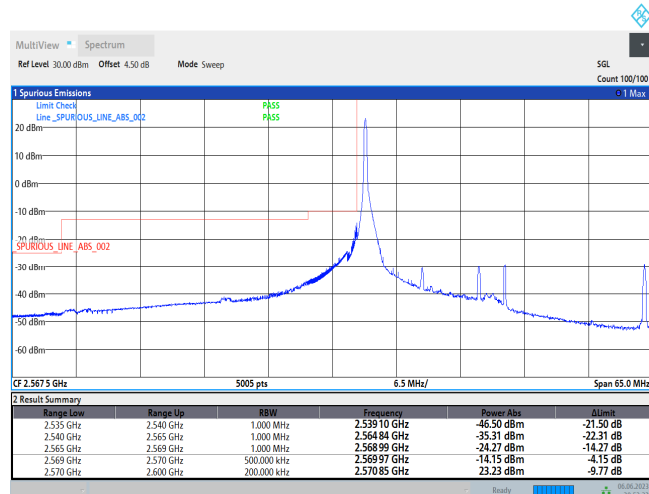
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Band Edge

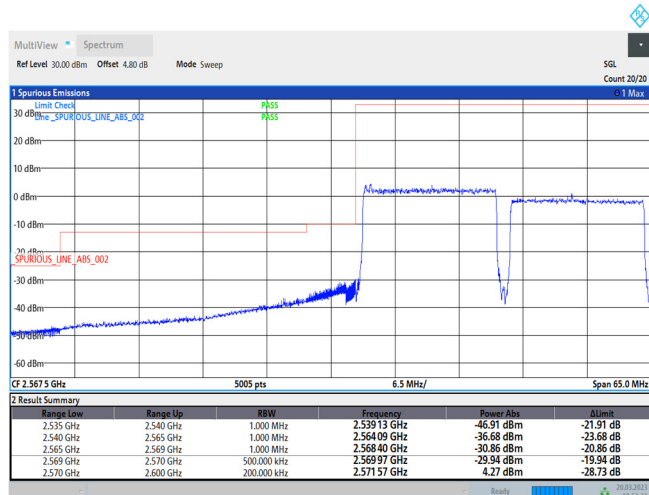
Test Graphs

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



20:53:33 06.06.2023

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



18:53:33 06.06.2023



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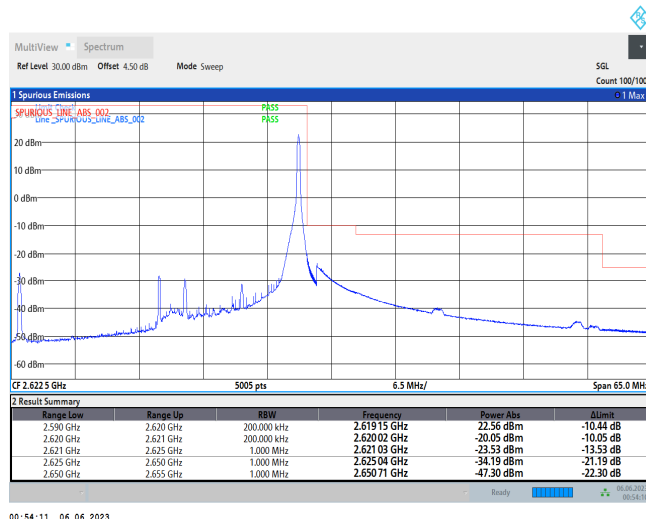
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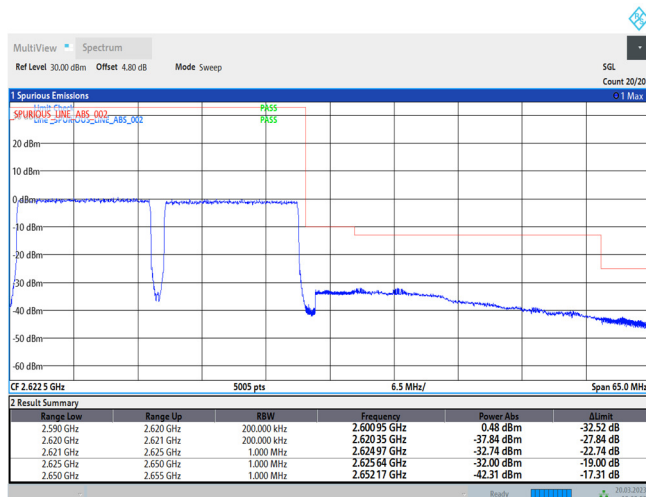
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38-38-15MHz-15MHz-QPSK-QPSK-38025-38175-0RB#0-1RB#74



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



19:08:54 06.06.2023



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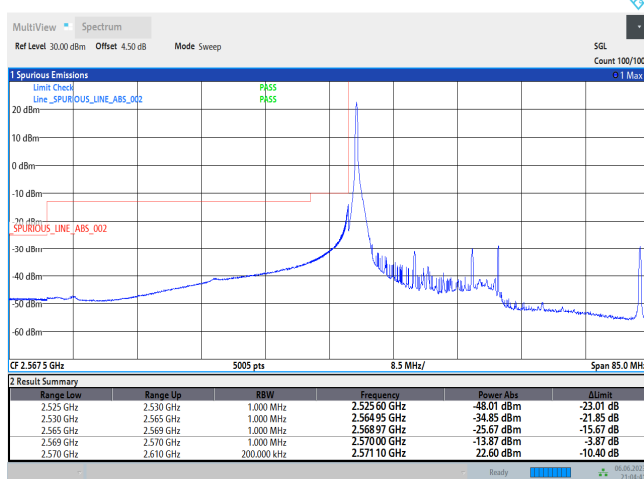
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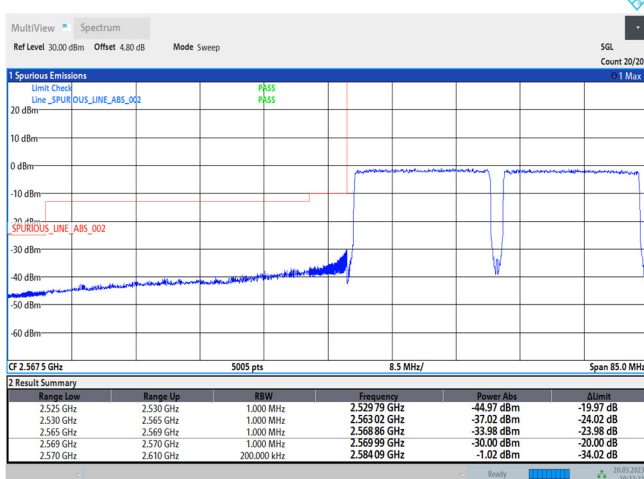
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38-38-20MHz-20MHz-QPSK-QPSK-37850-38048-1RB#0-0RB#0



21:04:42 06.06.2023

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



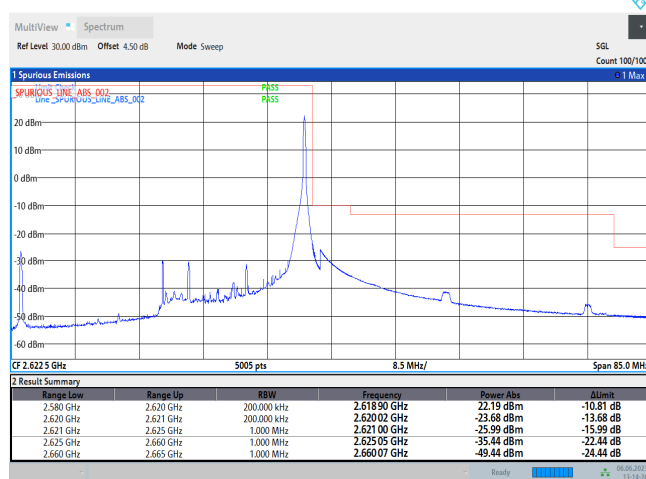
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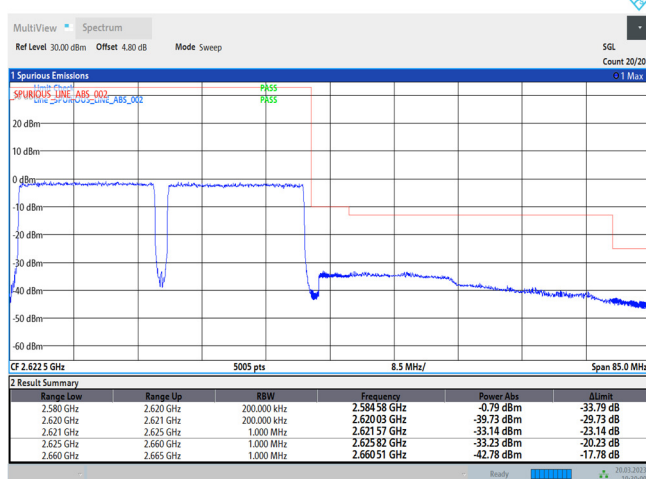
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38-38-20MHz-20MHz-QPSK-QPSK-37952-38150-0RB#0-1RB#99



13:14:21 06.06.2023

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



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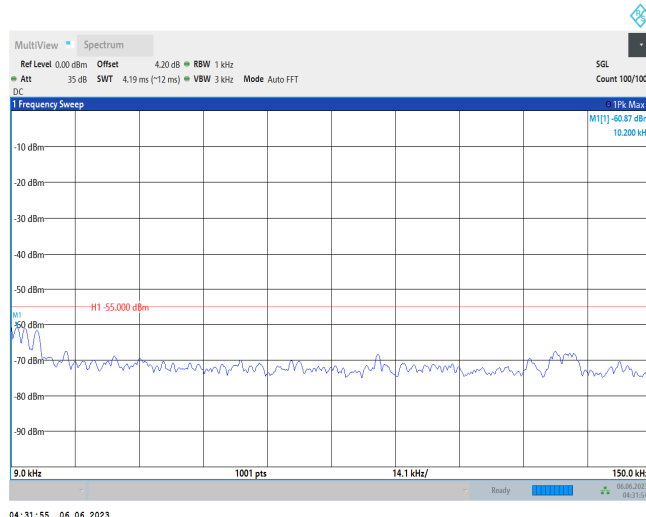
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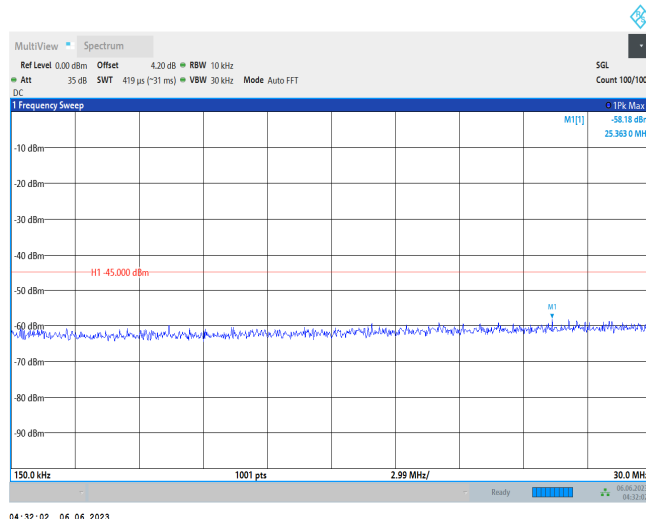
Conducted Spurious Emission

Test Graphs

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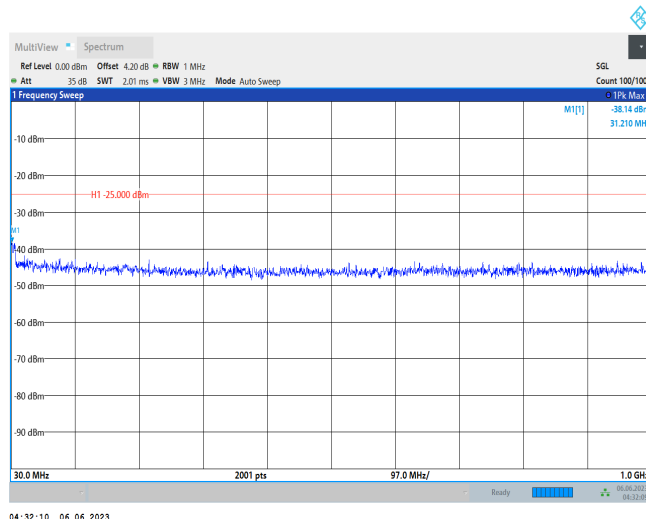
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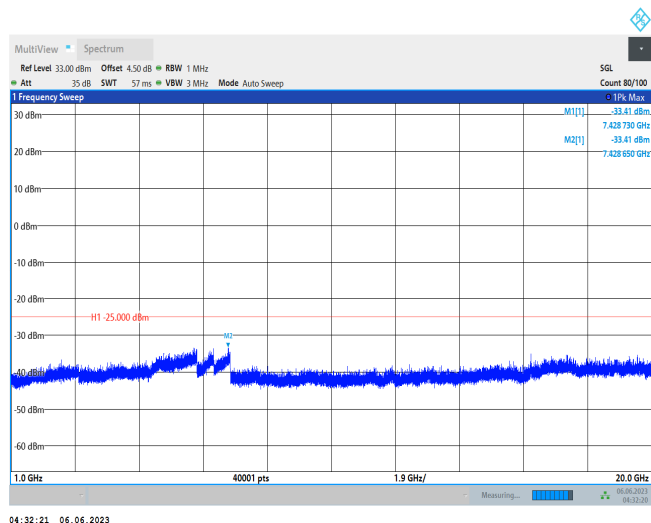
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38-38-20MHz-20MHz-QPSK-QPSK-37952-38150-1RB#0-0RB#0-30~1000MHz



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

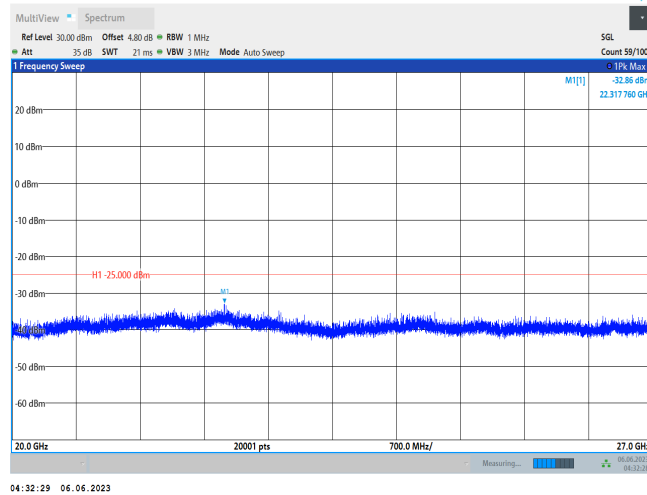


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38-38-20MHz-20MHz-QPSK-QPSK-37952-38150-1RB#0-0RB#0-20000~27000MHz



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Field Strength of Spurious Radiation

Test Band = UL CA_38C_TM1_Ant13

Test Channel = Low Channel

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5142	48.83	-44.23	32.60	-58.06	-25.00	33.06	214	50	Horizontal
2	7713.27	43.80	-41.23	36.93	-55.77	-25.00	30.77	189	50	Horizontal
3	10284.36	34.64	-36.79	38.81	-58.59	-25.00	33.59	263	214	Horizontal
4	12855.45	33.26	-34.96	39.46	-57.51	-25.00	32.51	172	235	Horizontal
5	15426.54	30.94	-33.95	38.64	-59.63	-25.00	34.63	209	172	Horizontal
6	17997.63	31.25	-31.42	42.59	-52.84	-25.00	27.84	164	69	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5142.18	46.79	-44.23	32.60	-60.10	-25.00	35.10	133	72	Vertical
2	7713.27	43.23	-41.23	36.93	-56.34	-25.00	31.34	214	72	Vertical
3	10284.36	34.11	-36.79	38.81	-59.12	-25.00	34.12	156	199	Vertical
4	12855.45	31.89	-34.96	39.46	-58.88	-25.00	33.88	278	282	Vertical
5	15426.54	30.76	-33.95	38.64	-59.81	-25.00	34.81	192	32	Vertical
6	17997.63	30.90	-31.42	42.59	-53.19	-25.00	28.19	162	0	Vertical



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Report No.: SEWM2305000177RG01

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Test Band = UL_CA_38C_TM1_Ant13
Test Channel = Mid Channel

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4098.5	43.94	-45.01	30.76	-65.57	-25.00	40.57	148	279	Horizontal
2	7728.5	46.45	-41.13	36.96	-52.98	-25.00	27.98	216	66	Horizontal
3	5152.38	48.08	-44.22	32.60	-58.80	-25.00	33.80	233	45	Horizontal
4	10304.76	36.58	-36.81	38.84	-56.66	-25.00	31.66	198	216	Horizontal
5	12880.95	32.90	-34.90	39.48	-57.78	-25.00	32.78	172	45	Horizontal
6	15457.14	31.10	-34.04	38.61	-59.60	-25.00	34.60	145	24	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4343	43.54	-44.92	31.15	-65.49	-25.00	40.49	216	357	Vertical
2	7728.5	44.48	-41.13	36.96	-54.95	-25.00	29.95	178	50	Vertical
3	5152.38	45.34	-44.22	32.60	-61.54	-25.00	36.54	261	240	Vertical
4	10304.76	33.61	-36.81	38.84	-59.63	-25.00	34.63	141	178	Vertical
5	12880.95	33.16	-34.90	39.48	-57.52	-25.00	32.52	231	197	Vertical
6	15457.14	31.38	-34.04	38.61	-59.32	-25.00	34.32	129	50	Vertical



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Test Band = UL_CA_38C_TM1_Ant13
Test Channel = High Channel

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4041.5	43.87	-45.26	30.67	-65.99	-25.00	40.99	178	357	Horizontal
2	5162.5	51.01	-44.20	32.60	-55.85	-25.00	30.85	219	53	Horizontal
3	7743.87	47.67	-41.02	36.99	-51.62	-25.00	26.62	265	239	Horizontal
4	10325.16	35.52	-36.74	38.86	-57.62	-25.00	32.62	242	217	Horizontal
5	12906.45	32.23	-34.86	39.51	-58.39	-25.00	33.39	135	0	Horizontal
6	15487.74	33.38	-34.13	38.57	-57.45	-25.00	32.45	174	136	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4236	43.51	-44.99	30.98	-65.76	-25.00	40.76	211	1	Vertical
2	5162.5	51.02	-44.20	32.60	-55.84	-25.00	30.84	154	70	Vertical
3	7743.87	42.17	-41.02	36.99	-57.12	-25.00	32.12	175	70	Vertical
4	10325.16	34.62	-36.74	38.86	-58.52	-25.00	33.52	289	196	Vertical
5	12906.45	33.00	-34.86	39.51	-57.62	-25.00	32.62	246	3	Vertical
6	15487.74	33.47	-34.13	38.57	-57.36	-25.00	32.36	302	258	Vertical



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Test Band = UL CA_38C_TM1_Ant31
Test Channel = Low Channel

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5142	46.44	-44.23	32.60	-60.45	-25.00	35.45	128	149	Horizontal
2	7713.27	40.92	-41.23	36.93	-58.65	-25.00	33.65	175	294	Horizontal
3	10284.36	33.65	-36.79	38.81	-59.58	-25.00	34.58	192	192	Horizontal
4	12855.45	32.46	-34.96	39.46	-58.31	-25.00	33.31	346	46	Horizontal
5	15426.54	30.38	-33.95	38.64	-60.19	-25.00	35.19	247	234	Horizontal
6	17997.63	31.87	-31.42	42.59	-52.22	-25.00	27.22	186	340	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5142.18	43.90	-44.23	32.60	-62.99	-25.00	37.99	139	0	Vertical
2	7713.27	38.79	-41.23	36.93	-60.78	-25.00	35.78	246	341	Vertical
3	10284.36	33.30	-36.79	38.81	-59.93	-25.00	34.93	187	215	Vertical
4	12855.45	32.92	-34.96	39.46	-57.85	-25.00	32.85	188	106	Vertical
5	15426.54	30.53	-33.95	38.64	-60.04	-25.00	35.04	246	298	Vertical
6	17997.63	31.55	-31.42	42.59	-52.54	-25.00	27.54	206	25	Vertical



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Test Band = UL_CA_38C_TM1_Ant31

Test Channel = Mid Channel

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	8943	38.50	-38.91	38.54	-57.13	-25.00	32.13	174	320	Horizontal
2	5152.38	47.05	-44.22	32.60	-59.83	-25.00	34.83	245	277	Horizontal
3	7728.57	37.76	-41.12	36.96	-61.67	-25.00	36.67	193	277	Horizontal
4	10304.76	33.71	-36.81	38.84	-59.53	-25.00	34.53	284	51	Horizontal
5	12880.95	32.64	-34.90	39.48	-58.04	-25.00	33.04	175	357	Horizontal
6	15457.14	31.26	-34.04	38.61	-59.44	-25.00	34.44	265	277	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6223.5	42.37	-42.72	34.65	-60.96	-25.00	35.96	129	52	Vertical
2	5152.38	48.33	-44.22	32.60	-58.55	-25.00	33.55	243	357	Vertical
3	7728.57	38.91	-41.12	36.96	-60.52	-25.00	35.52	275	31	Vertical
4	10304.76	33.60	-36.81	38.84	-59.64	-25.00	34.64	165	175	Vertical
5	12880.95	32.89	-34.90	39.48	-57.79	-25.00	32.79	244	341	Vertical
6	15457.14	31.47	-34.04	38.61	-59.23	-25.00	34.23	186	298	Vertical



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Test Band = UL_CA_38C_TM1_Ant31

Test Channel = High Channel

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5162.5	46.76	-44.20	32.60	-60.10	-25.00	35.10	128	215	Horizontal
2	6214.5	42.88	-42.71	34.63	-60.46	-25.00	35.46	149	319	Horizontal
3	7743.87	40.57	-41.02	36.99	-58.72	-25.00	33.72	235	258	Horizontal
4	10325.16	34.29	-36.74	38.86	-58.85	-25.00	33.85	186	89	Horizontal
5	12906.45	32.79	-34.86	39.51	-57.83	-25.00	32.83	277	154	Horizontal
6	15487.74	32.49	-34.13	38.57	-58.34	-25.00	33.34	181	258	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6303	42.36	-42.81	34.81	-60.91	-25.00	35.91	216	260	Vertical
2	5162.58	47.45	-44.20	32.60	-59.41	-25.00	34.41	124	217	Vertical
3	7743.87	40.75	-41.02	36.99	-58.54	-25.00	33.54	185	301	Vertical
4	10325.16	35.17	-36.74	38.86	-57.97	-25.00	32.97	163	0	Vertical
5	12906.45	32.98	-34.86	39.51	-57.64	-25.00	32.64	258	357	Vertical
6	15487.74	32.23	-34.13	38.57	-58.60	-25.00	33.60	179	217	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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South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000

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

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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	35.80	0.015125	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	VL	NT	30.70	0.013654	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	VN	NT	43.20	0.016256	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	40.40	0.015554	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	-20	55.50	0.021221	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	-10	51.20	0.019725	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	0	34.60	0.013523	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	10	37.40	0.014380	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	20	47.50	0.018324	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	30	40.60	0.015422	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	40	48.70	0.018650	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	50	48.30	0.018826	PASS

---End of Attachment---



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