

Report No.: SEWM2209000168RG01

Rev.: 01

Page: 1 of 51

Appendix B.11

LTE Band 38C



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Report No.: SEWM2209000168RG01

Rev.: 01

Page: 2 of 51

Effective (Isotropic) Radiated Power Output Data

Test Result

ANT0:

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	22.41	22.61	33	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37825-37975	75RB#0-75RB#0	21.3	21.5	33	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37925-38075	1RB#0-0RB#0	22.38	22.58	33	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37925-38075	75RB#0-75RB#0	21.29	21.49	33	PASS
38-38	15MHz-15MHz	QPSK-QPSK	38025-38175	1RB#0-0RB#0	22.41	22.61	33	PASS
38-38	15MHz-15MHz	QPSK-QPSK	38025-38175	75RB#0-75RB#0	21.26	21.46	33	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37825-37975	1RB#0-0RB#0	21.5	21.7	33	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37825-37975	75RB#0-75RB#0	20.29	20.49	33	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37925-38075	1RB#0-0RB#0	21.58	21.78	33	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37925-38075	75RB#0-75RB#0	20.28	20.48	33	PASS
38-38	15MHz-15MHz	16QAM-16QAM	38025-38175	1RB#0-0RB#0	21.56	21.76	33	PASS
38-38	15MHz-15MHz	16QAM-16QAM	38025-38175	75RB#0-75RB#0	20.25	20.45	33	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37825-37975	1RB#0-0RB#0	20.08	20.28	33	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37825-37975	75RB#0-75RB#0	20.33	20.53	33	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37925-38075	1RB#0-0RB#0	20.15	20.35	33	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37925-38075	75RB#0-75RB#0	20.35	20.55	33	PASS
38-38	15MHz-15MHz	64QAM-64QAM	38025-38175	1RB#0-0RB#0	20.13	20.33	33	PASS
38-38	15MHz-15MHz	64QAM-64QAM	38025-38175	75RB#0-75RB#0	20.29	20.49	33	PASS
38-38	15MHz-15MHz	256QAM-256QAM	37825-37975	1RB#0-0RB#0	17.31	17.51	33	PASS
38-38	15MHz-15MHz	256QAM-256QAM	37825-37975	75RB#0-75RB#0	18.37	18.57	33	PASS
38-38	15MHz-15MHz	256QAM-256QAM	37925-38075	1RB#0-0RB#0	17.34	17.54	33	PASS
38-38	15MHz-15MHz	256QAM-256QAM	37925-38075	75RB#0-75RB#0	18.33	18.53	33	PASS
38-38	15MHz-15MHz	256QAM-256QAM	38025-38175	1RB#0-0RB#0	17.36	17.56	33	PASS
38-38	15MHz-15MHz	256QAM-256QAM	38025-38175	75RB#0-75RB#0	18.33	18.53	33	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37850-38048	100RB#0-100RB#0	21.22	21.42	33	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37850-38048	1RB#0-0RB#0	22.3	22.5	33	PASS



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Report No.: SEWM2209000168RG01

Rev.: 01

Page: 3 of 51

38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	21.21	21.41	33	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	1RB#0-0RB#0	22.26	22.46	33	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	100RB#0-100RB#0	21.24	21.44	33	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	1RB#0-0RB#0	22.28	22.48	33	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37850-38048	100RB#0-100RB#0	20.28	20.48	33	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37850-38048	1RB#0-0RB#0	21.46	21.66	33	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	100RB#0-100RB#0	20.26	20.46	33	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	1RB#0-0RB#0	21.43	21.63	33	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37952-38150	100RB#0-100RB#0	20.26	20.46	33	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37952-38150	1RB#0-0RB#0	21.5	21.7	33	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37850-38048	100RB#0-100RB#0	20.27	20.47	33	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37850-38048	1RB#0-0RB#0	20.01	20.21	33	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37901-38099	100RB#0-100RB#0	20.27	20.47	33	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37901-38099	1RB#0-0RB#0	20.01	20.21	33	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37952-38150	100RB#0-100RB#0	20.25	20.45	33	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37952-38150	1RB#0-0RB#0	20.6	20.8	33	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37850-38048	100RB#0-100RB#0	18.25	18.45	33	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37850-38048	1RB#0-0RB#0	17.28	17.48	33	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37901-38099	100RB#0-100RB#0	18.26	18.46	33	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37901-38099	1RB#0-0RB#0	17.3	17.5	33	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37952-38150	100RB#0-100RB#0	18.28	18.48	33	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37952-38150	1RB#0-0RB#0	17.36	17.56	33	PASS



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Report No.: SEWM2209000168RG01

Rev.: 01

Page: 4 of 51

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	10.10	13	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	100RB#0-100RB#0	10.02	13	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37850-38048	100RB#0-100RB#0	10.26	13	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	100RB#0-100RB#0	10.26	13	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37952-38150	100RB#0-100RB#0	10.28	13	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37850-38048	100RB#0-100RB#0	10.18	13	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37901-38099	100RB#0-100RB#0	10.14	13	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37952-38150	100RB#0-100RB#0	10.14	13	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37850-38048	100RB#0-100RB#0	10.54	13	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37901-38099	100RB#0-100RB#0	10.38	13	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37952-38150	100RB#0-100RB#0	10.44	13	PASS



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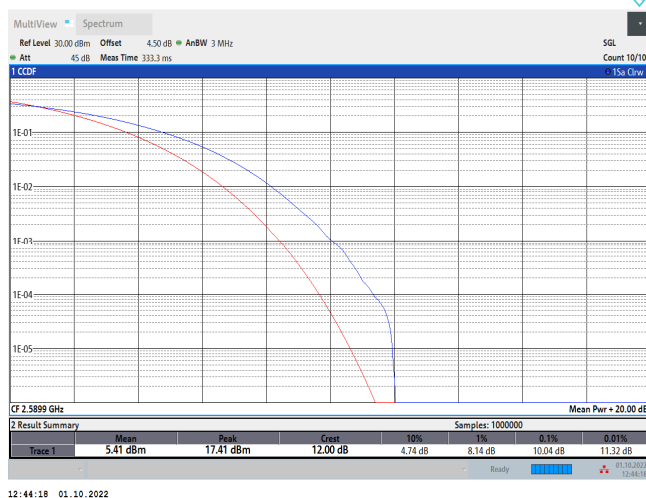
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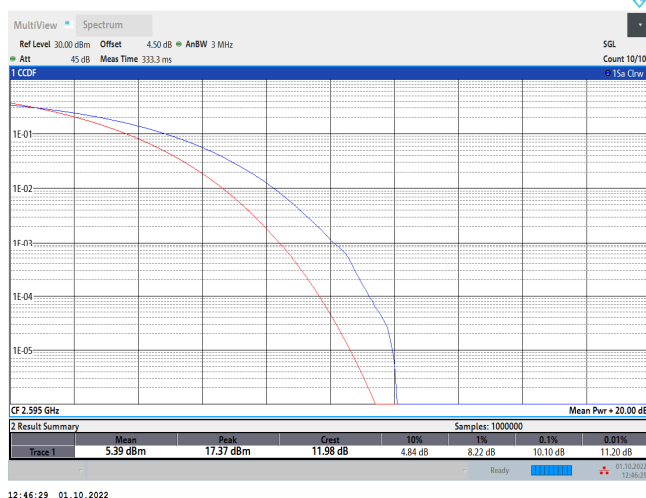
Page: 5 of 51

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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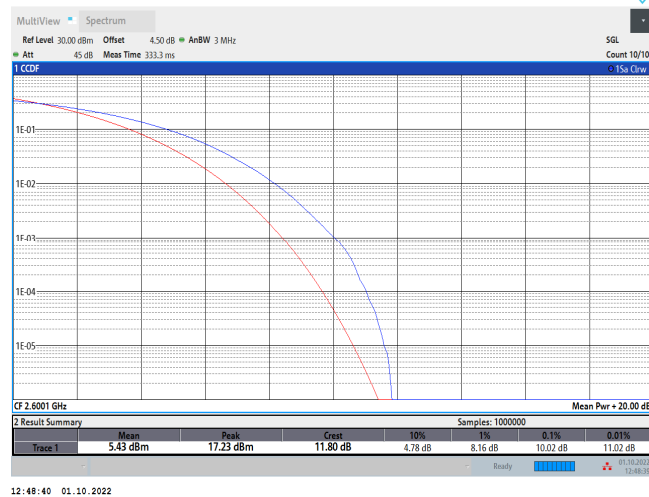
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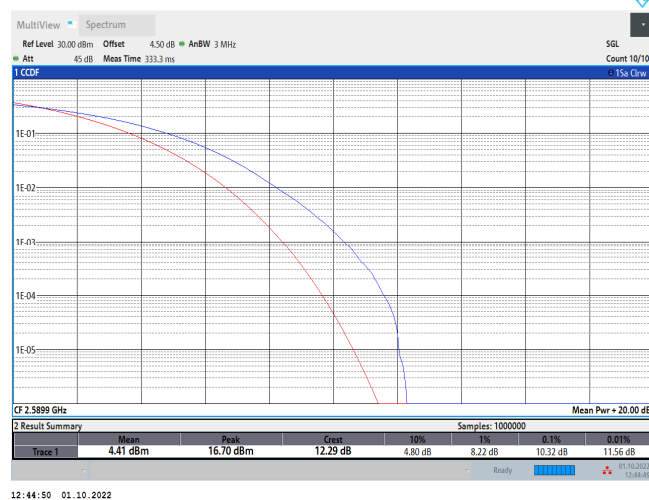
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Page: 6 of 51

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



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



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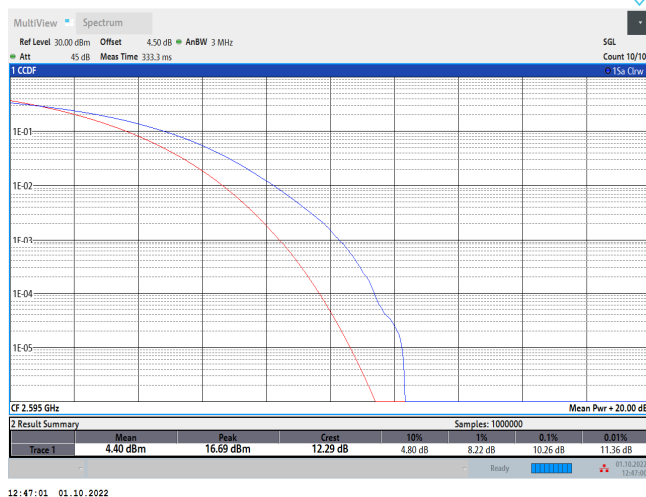
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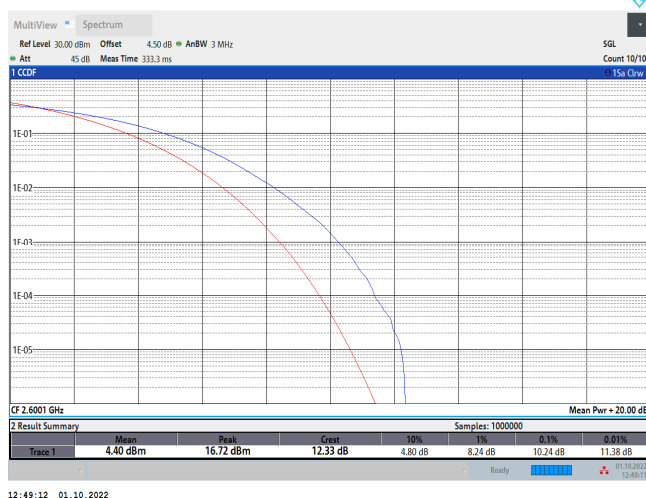
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Page: 7 of 51

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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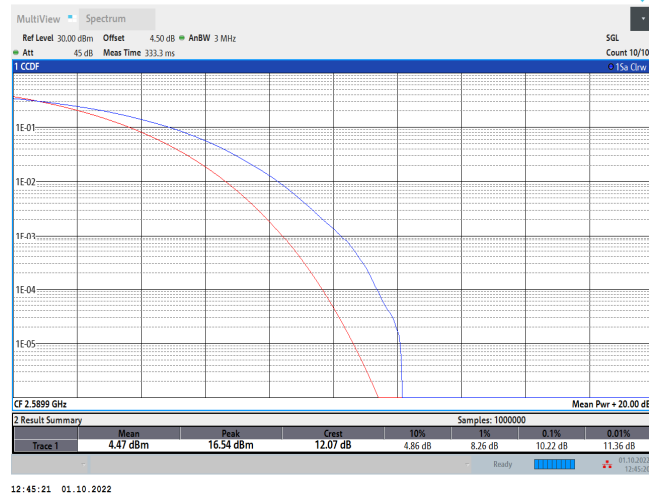
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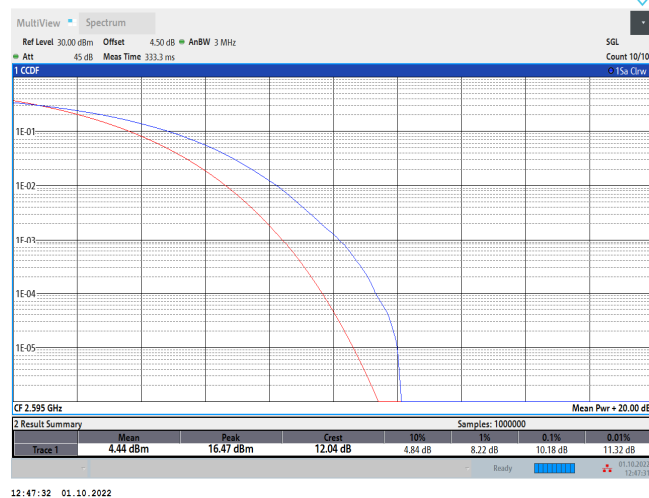
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Page: 8 of 51

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



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



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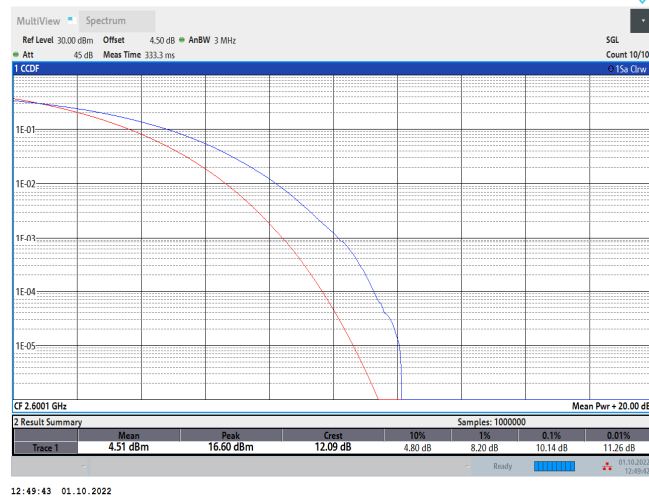
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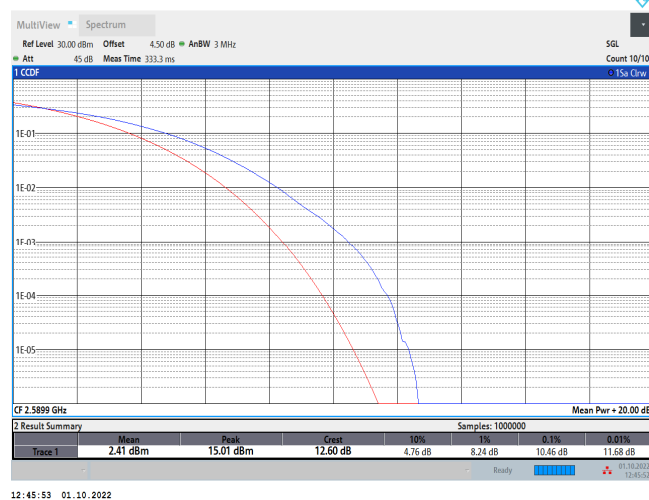
Rev.: 01

Page: 9 of 51

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



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



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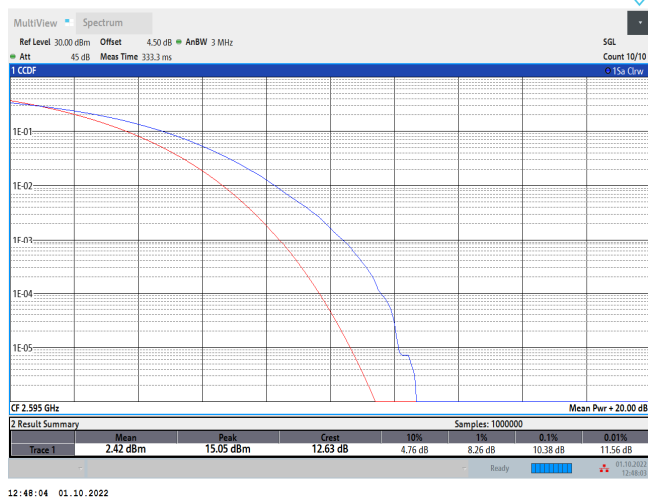
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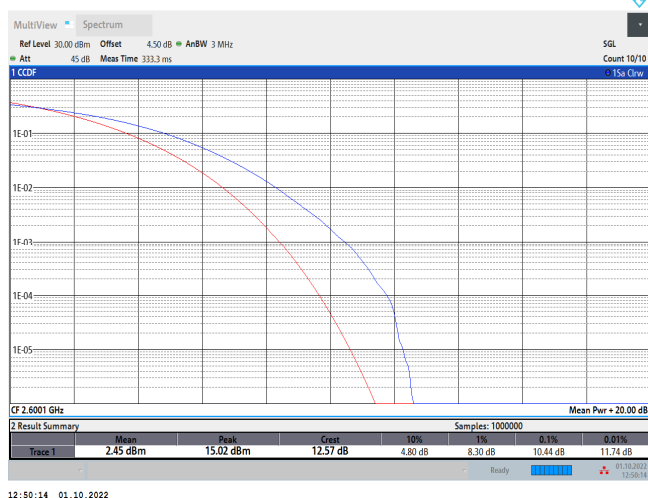
Rev.: 01

Page: 10 of 51

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



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



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Rev.: 01

Page: 11 of 51

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



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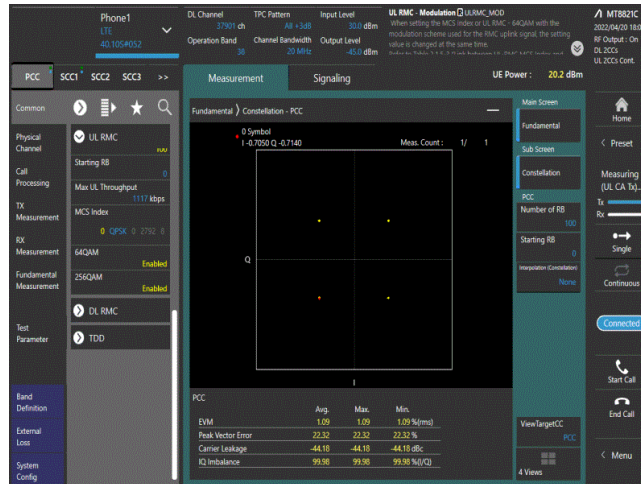
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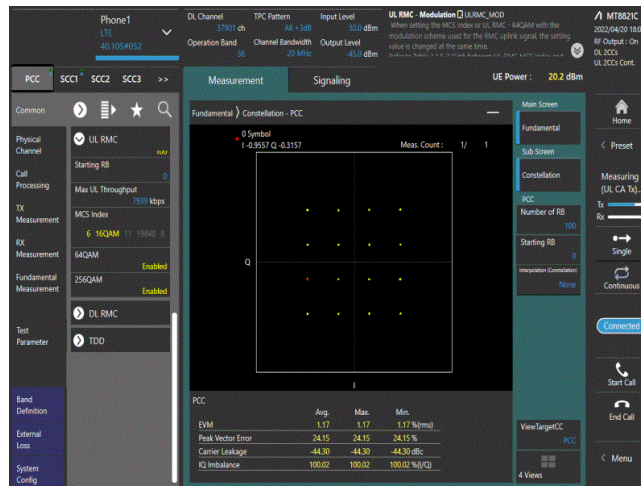
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Page: 12 of 51

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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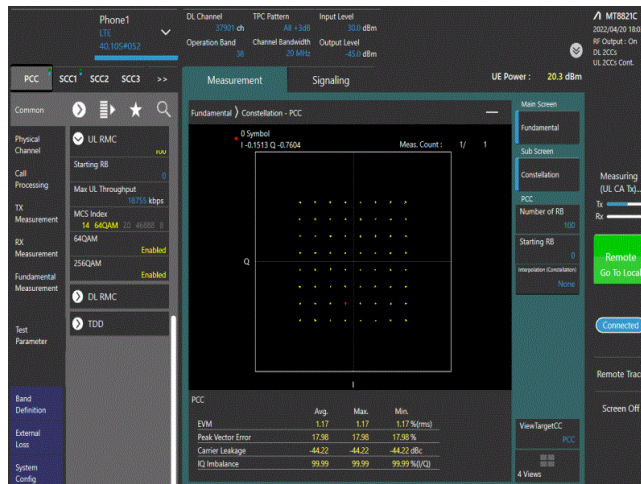
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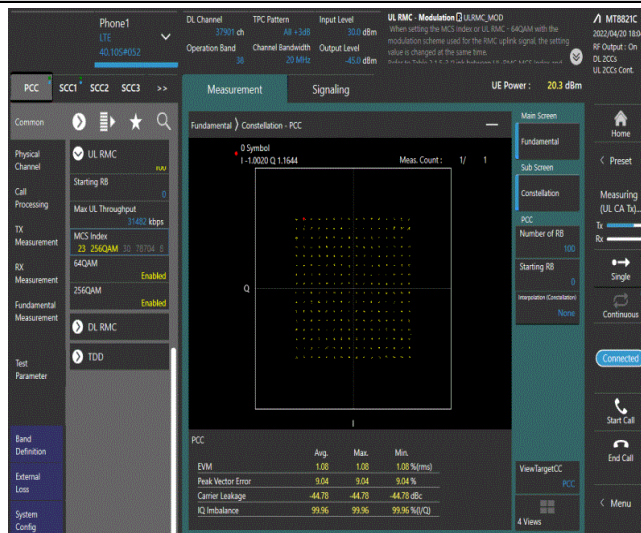
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Rev.: 01
Page: 13 of 51

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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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	28.363	30.48	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37925-38075	75RB#0-75RB#0	28.345	30.42	PASS
38-38	15MHz-15MHz	QPSK-QPSK	38025-38175	75RB#0-75RB#0	28.326	30.60	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37825-37975	75RB#0-75RB#0	28.325	30.00	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37925-38075	75RB#0-75RB#0	28.365	30.00	PASS
38-38	15MHz-15MHz	16QAM-16QAM	38025-38175	75RB#0-75RB#0	28.328	30.48	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37825-37975	75RB#0-75RB#0	28.302	31.08	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37925-38075	75RB#0-75RB#0	28.338	30.72	PASS
38-38	15MHz-15MHz	64QAM-64QAM	38025-38175	75RB#0-75RB#0	28.313	30.78	PASS
38-38	15MHz-15MHz	256QAM-256QAM	37825-37975	75RB#0-75RB#0	28.32	30.30	PASS
38-38	15MHz-15MHz	256QAM-256QAM	37925-38075	75RB#0-75RB#0	28.31	30.06	PASS
38-38	15MHz-15MHz	256QAM-256QAM	38025-38175	75RB#0-75RB#0	28.322	30.12	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37850-38048	100RB#0-100RB#0	37.801	42.16	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	37.79	41.60	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	100RB#0-100RB#0	37.805	42.64	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37850-38048	100RB#0-100RB#0	37.787	41.04	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	100RB#0-100RB#0	37.782	40.24	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37952-38150	100RB#0-100RB#0	37.781	42.00	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37850-38048	100RB#0-100RB#0	37.706	42.24	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37901-38099	100RB#0-100RB#0	37.733	42.16	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37952-38150	100RB#0-100RB#0	37.687	41.92	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37850-38048	100RB#0-100RB#0	37.734	43.04	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37901-38099	100RB#0-100RB#0	37.799	42.88	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37952-38150	100RB#0-100RB#0	37.792	43.28	PASS



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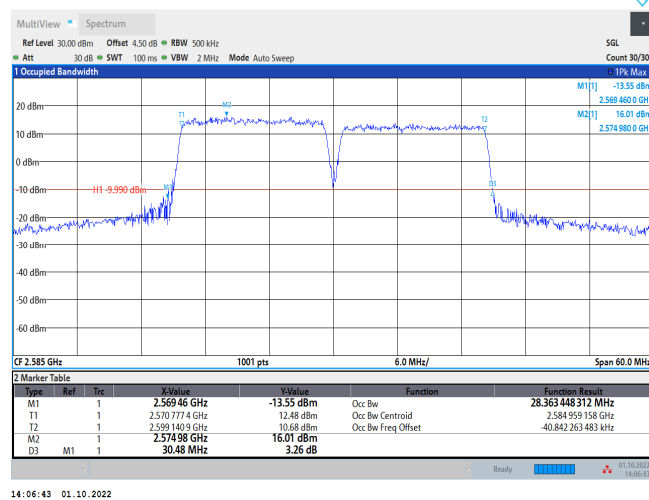
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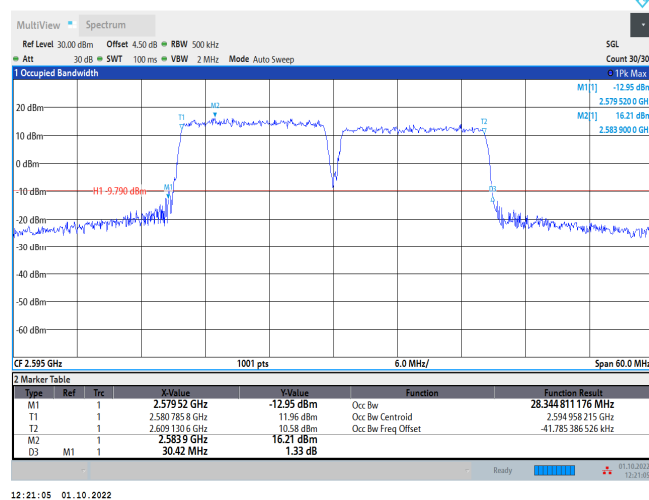
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Test Graphs

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



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



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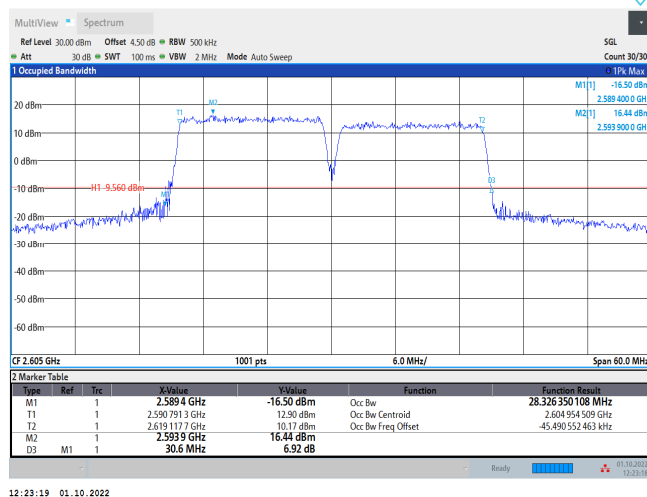
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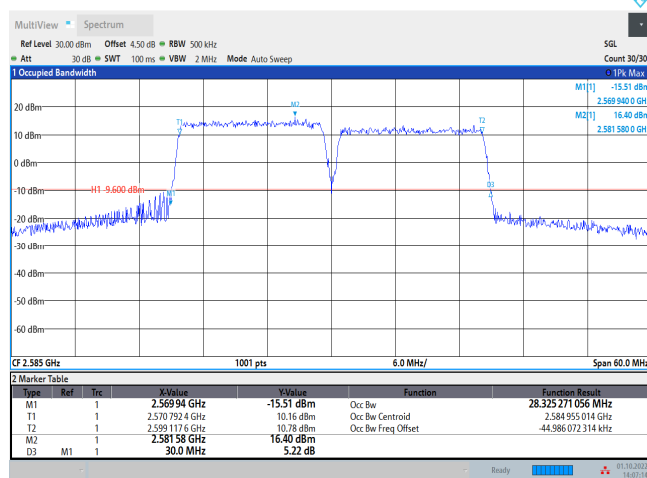
Page: 16 of 51

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



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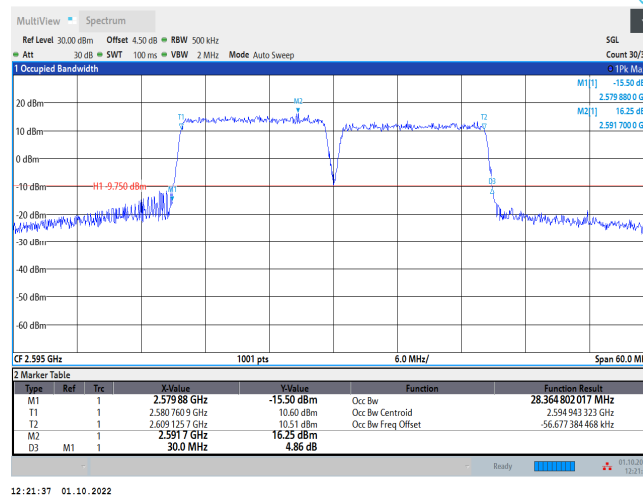
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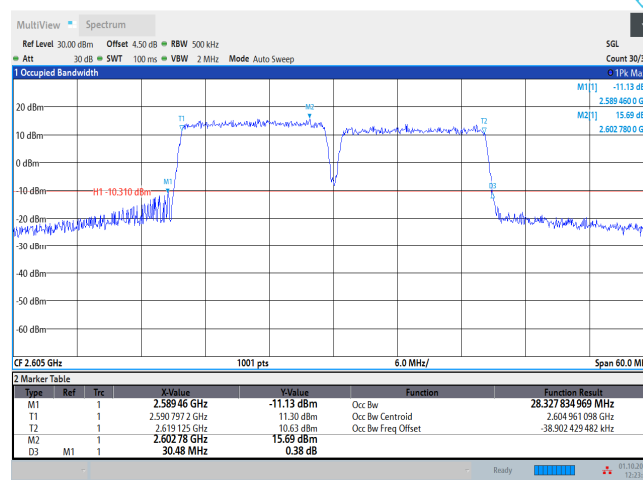
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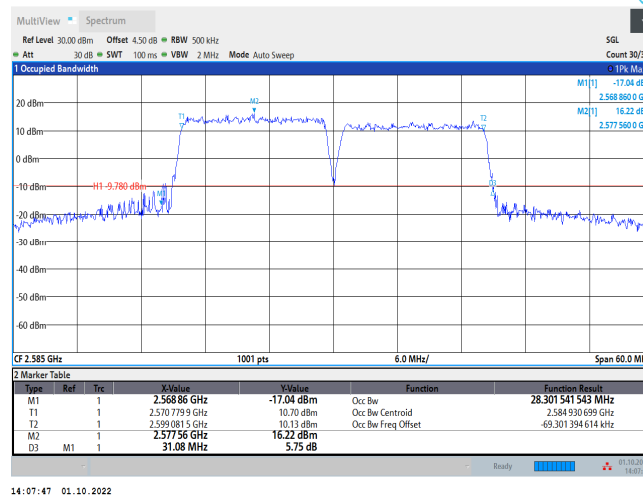
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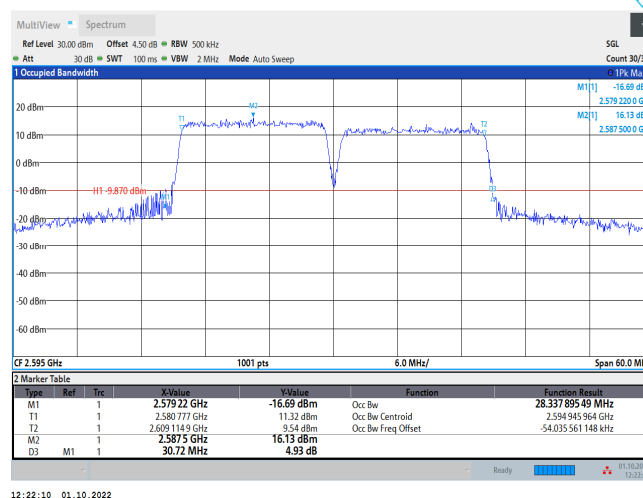
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Page: 18 of 51

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



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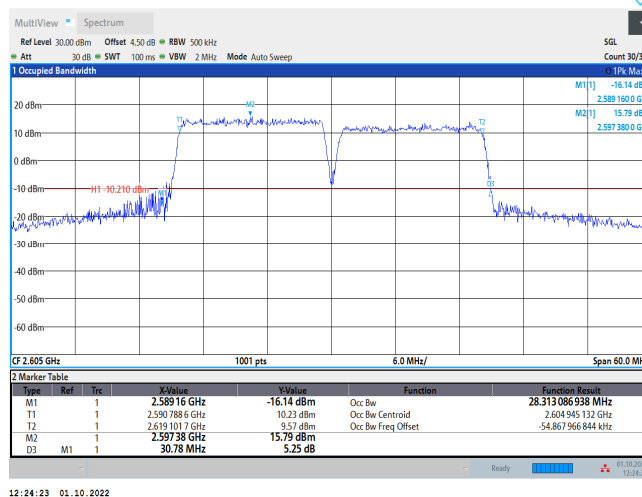


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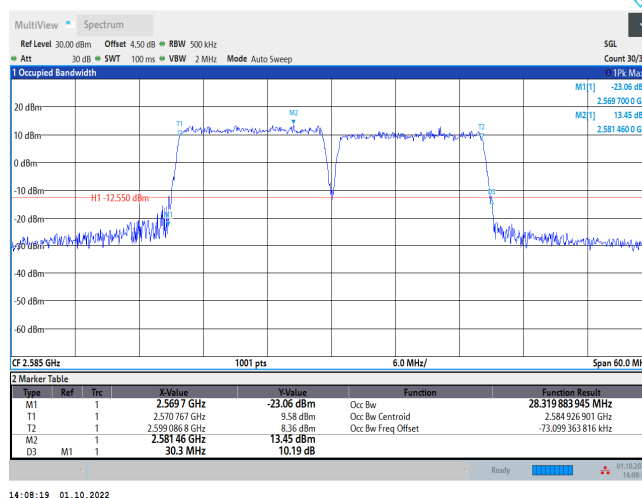
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Page: 19 of 51

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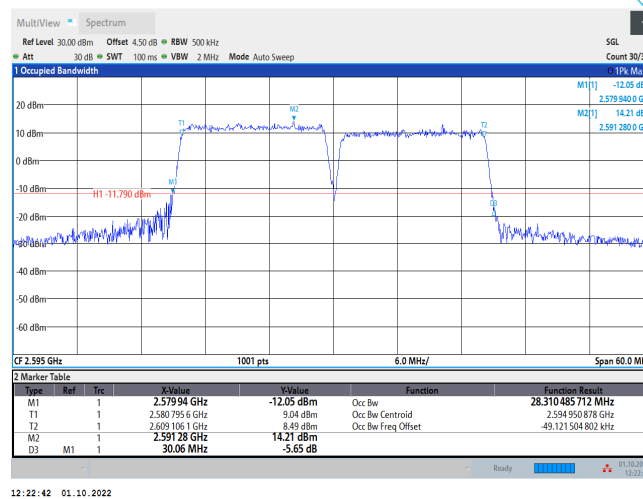


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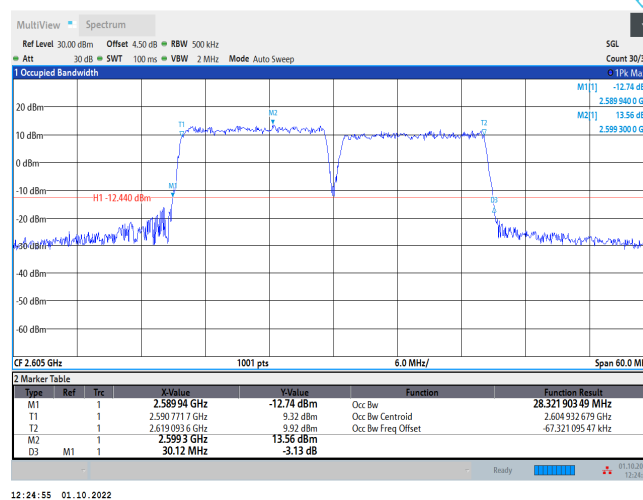
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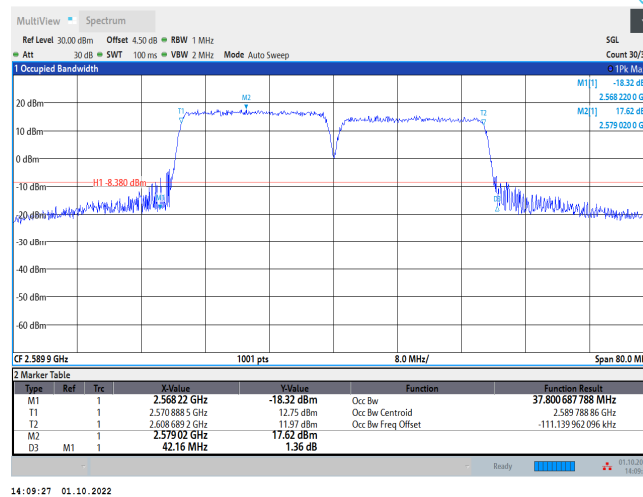


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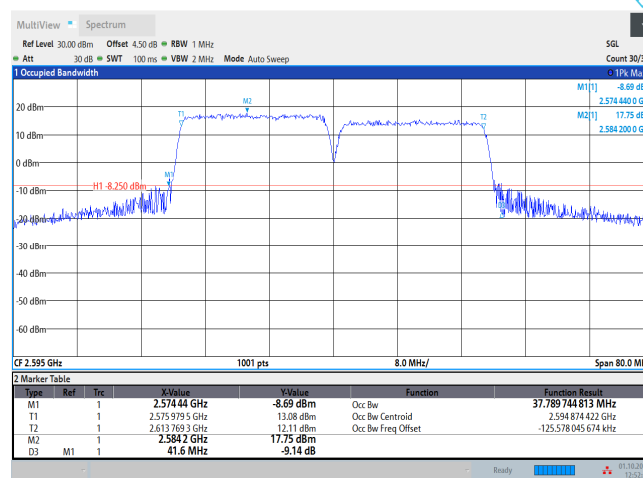
Page: 21 of 51

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



14:09:27 01.10.2022

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



12:52:49 01.10.2022



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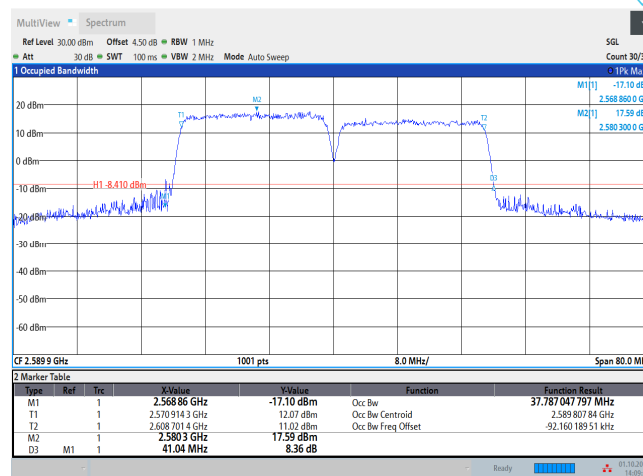
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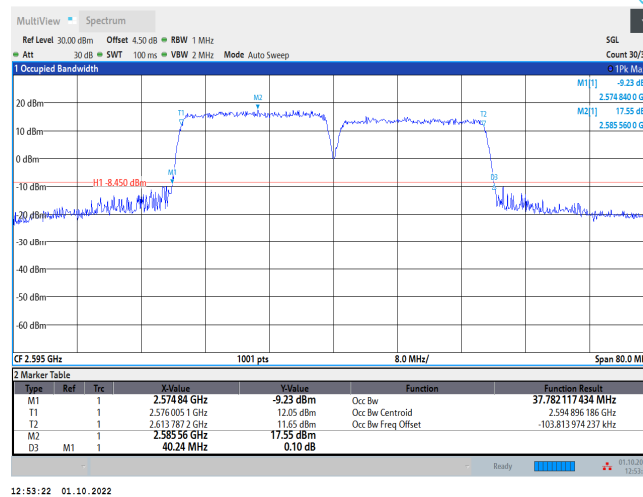
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Report No.: SEWM2209000168RG01

Rev.: 01

Page: 23 of 51

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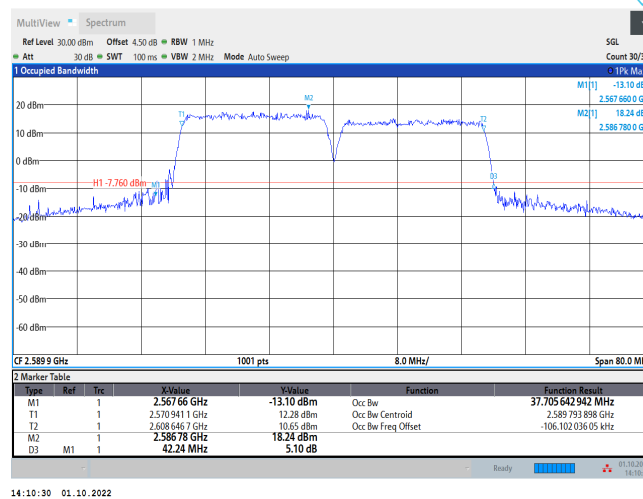


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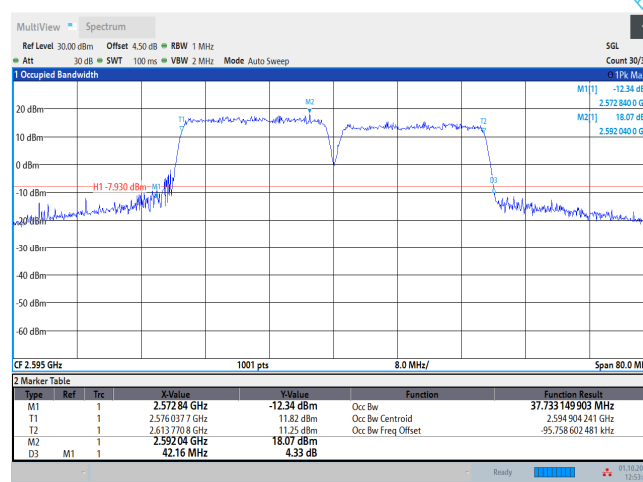
Page: 24 of 51

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14:10:30 01.10.2022

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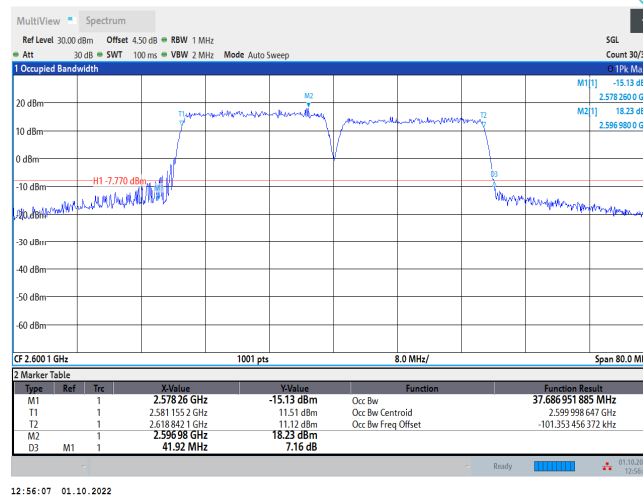
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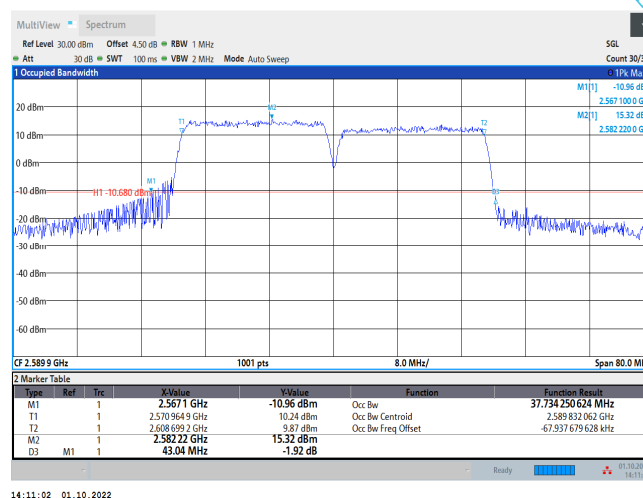
Rev.: 01

Page: 25 of 51

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



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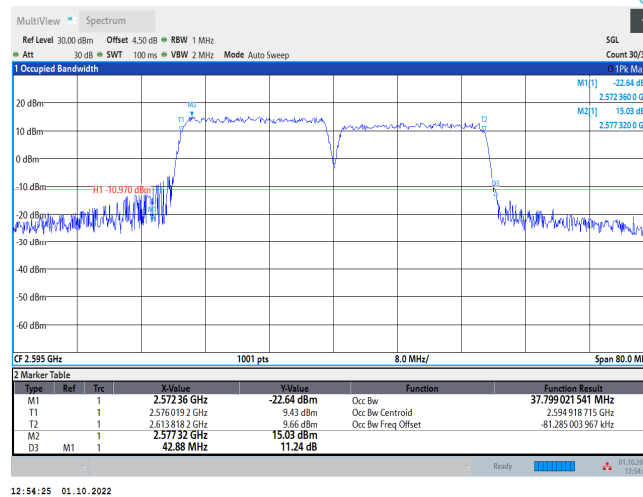


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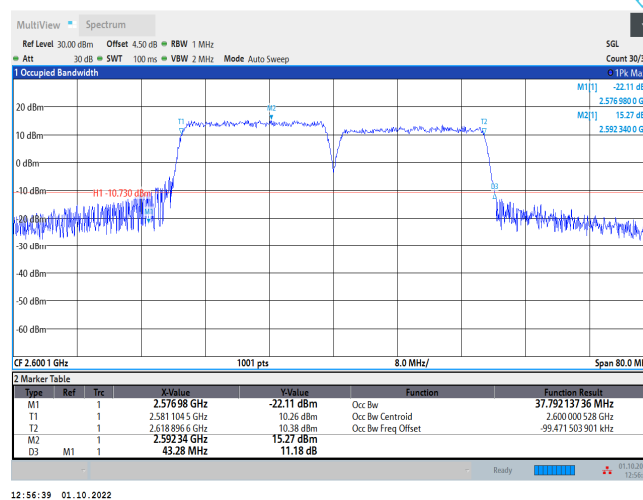
Rev.: 01

Page: 26 of 51

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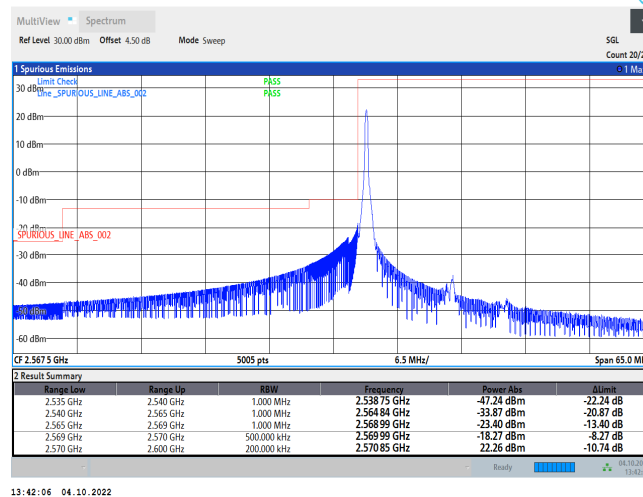
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Band Edge

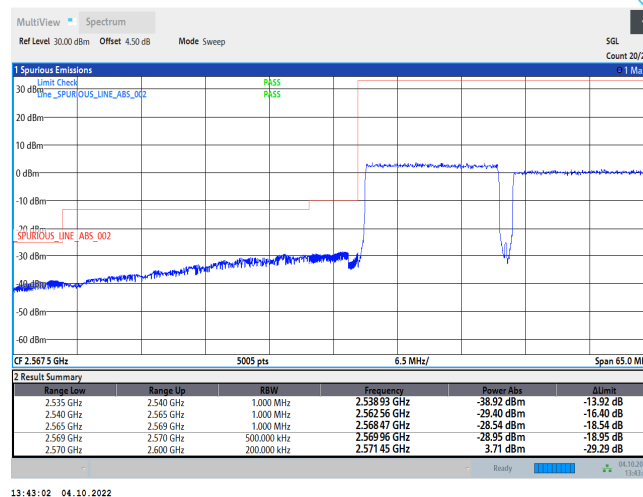
Test Graphs

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



13:42:06 04.10.2022

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



13:43:02 04.10.2022



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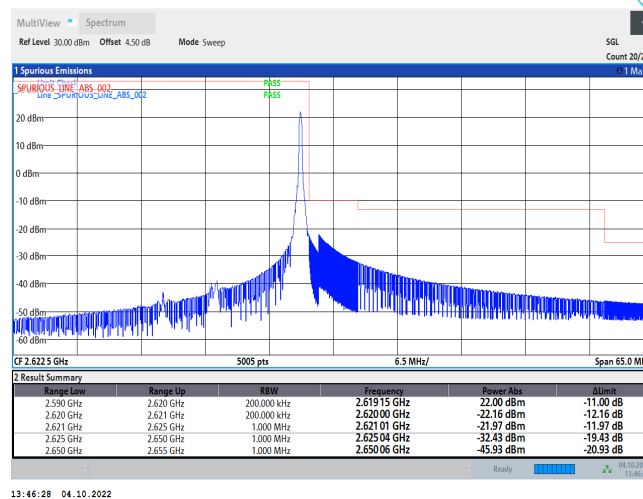
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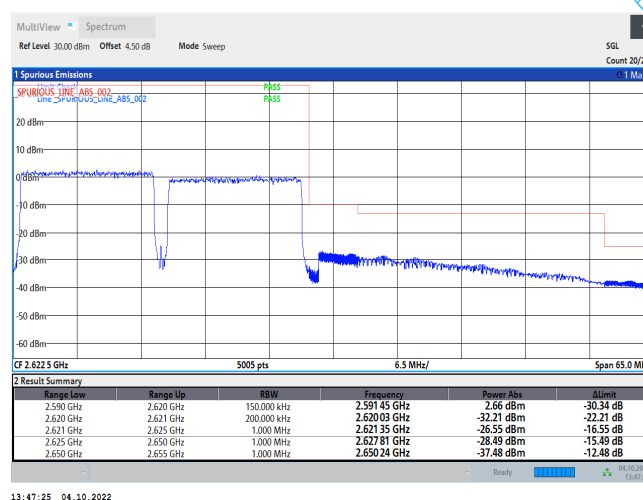
Rev.: 01

Page: 28 of 51

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



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



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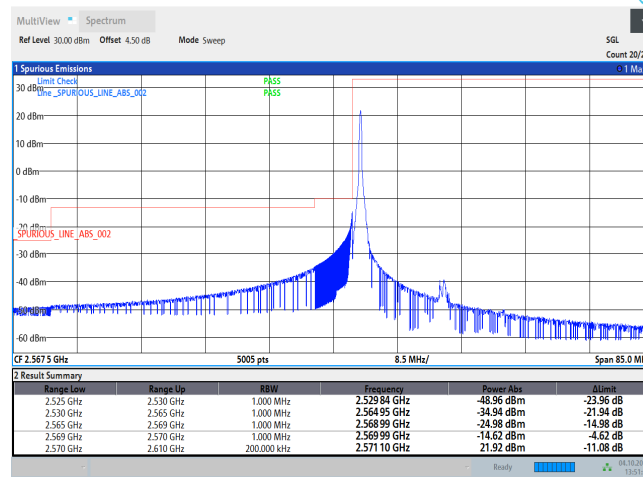
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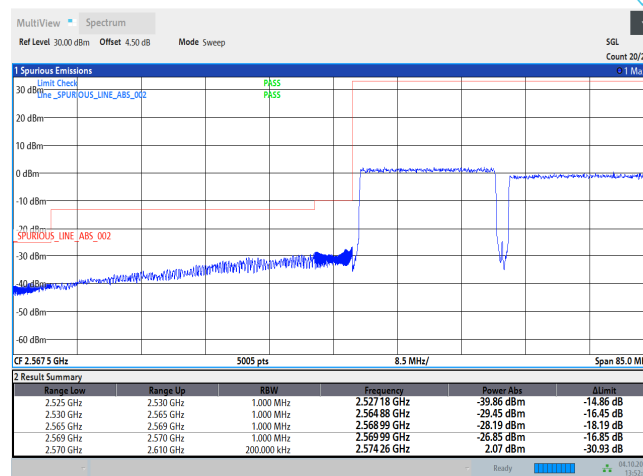
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38-38-20MHz-20MHz-QPSK-QPSK-37850-38048-1RB#0-0RB#0



13:51:08 04.10.2022

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



13:52:06 04.10.2022



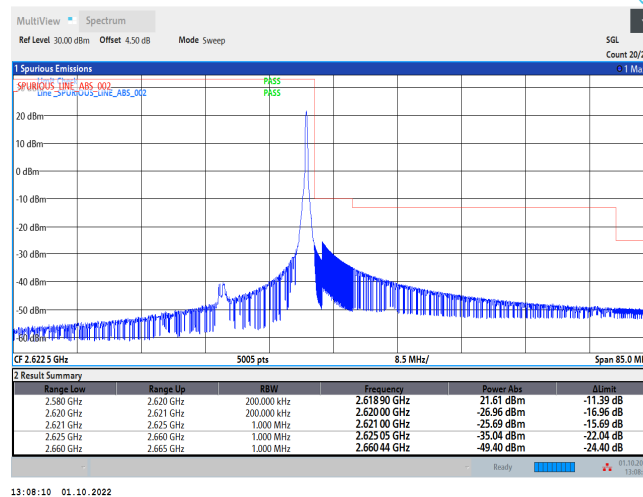
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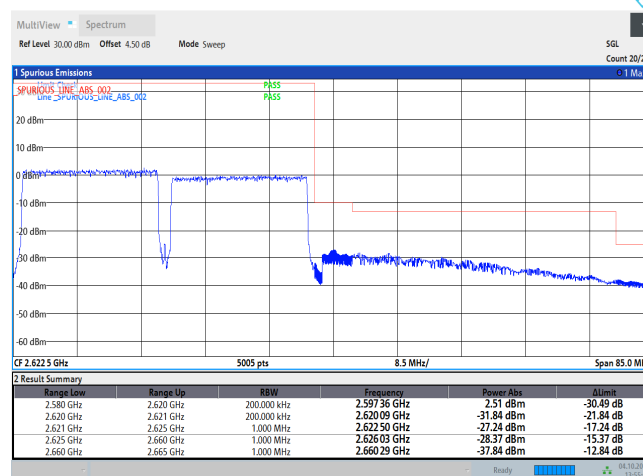
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38-38-20MHz-20MHz-QPSK-QPSK-37952-38150-0RB#0-1RB#99



13:08:10 01.10.2022

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Report No.: SEWM2209000168RG01

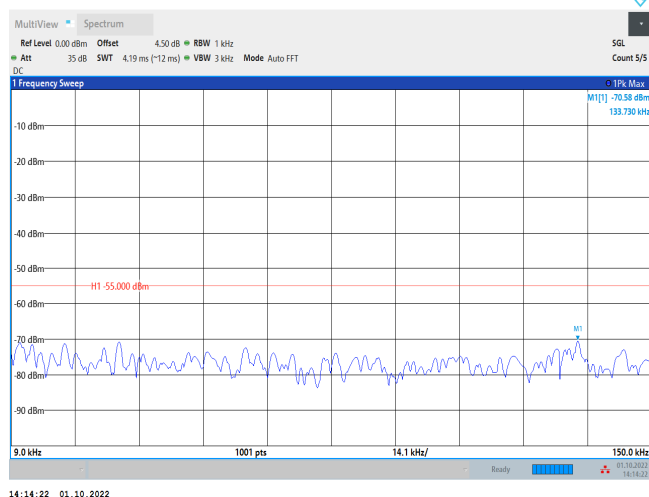
Rev.: 01

Page: 31 of 51

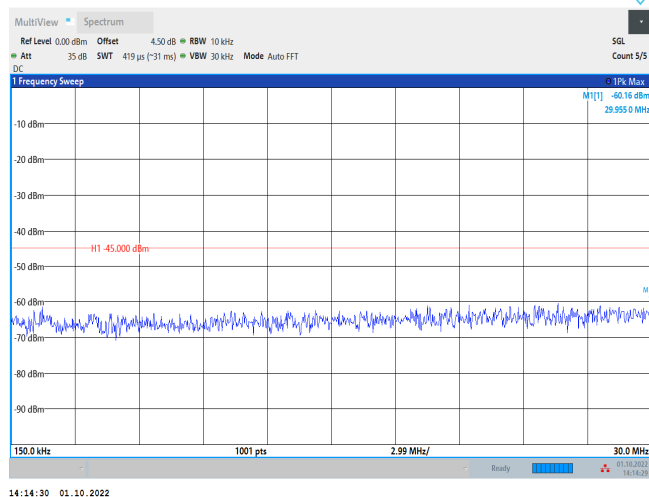
Conducted Spurious Emission

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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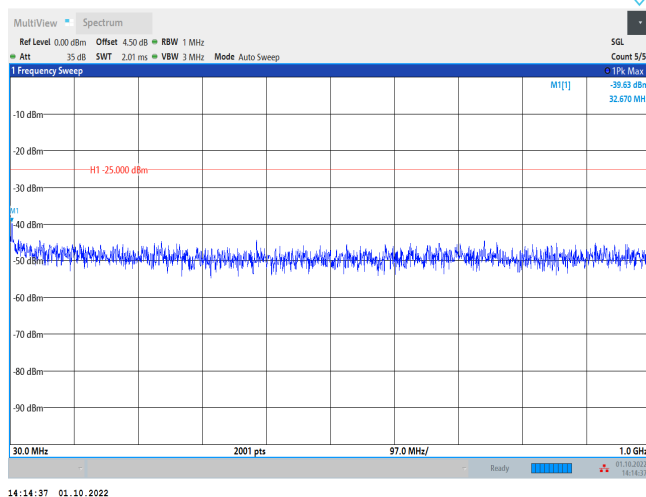
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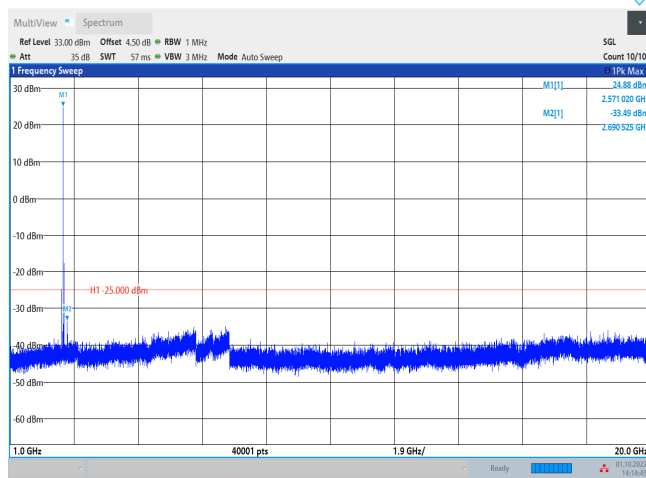
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14:14:37 01.10.2022

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



14:14:45 01.10.2022



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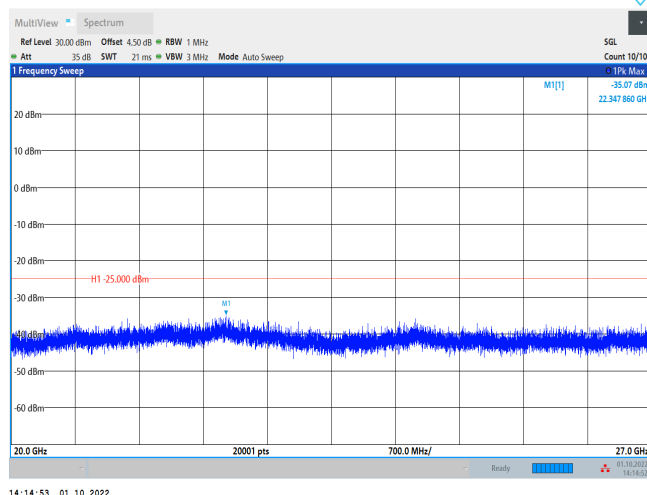
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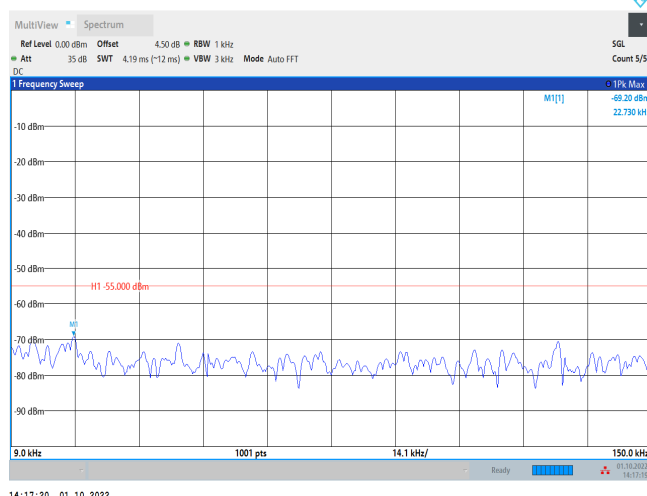
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38-38-20MHz-20MHz-QPSK-QPSK-37901-38099-1RB#0-0RB#0-0.009~0.15MHz



14:17:20 01.10.2022



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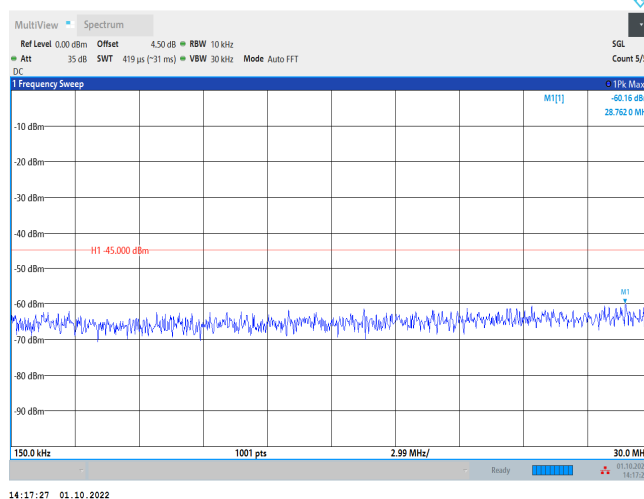
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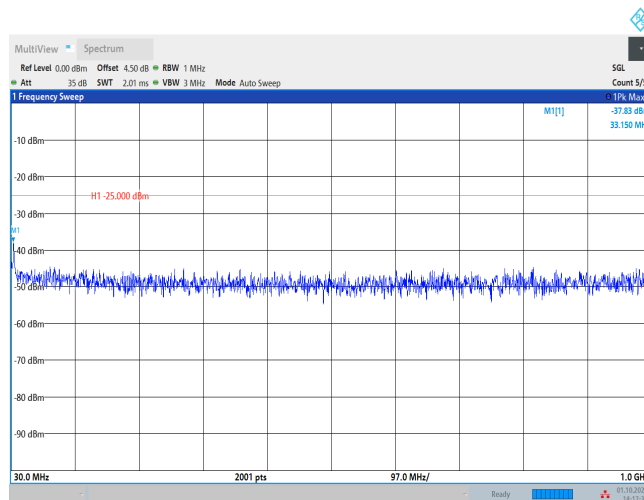
Page: 34 of 51

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



14:17:27 01.10.2022

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



14:17:34 01.10.2022



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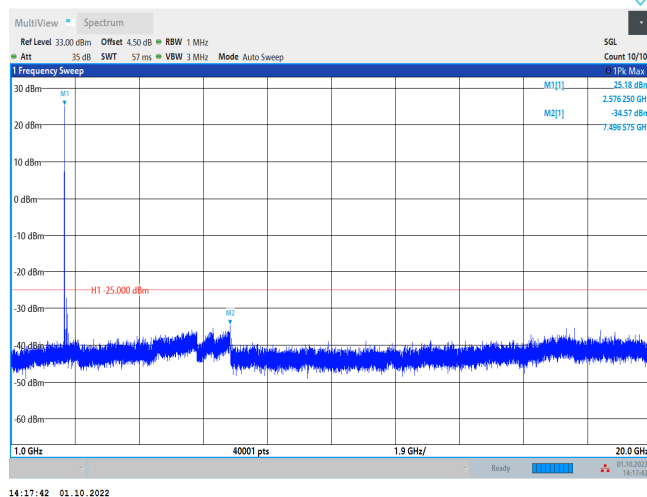
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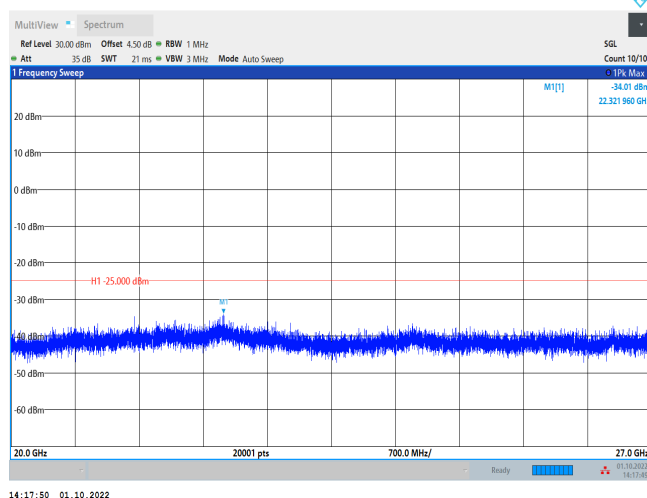
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Page: 35 of 51

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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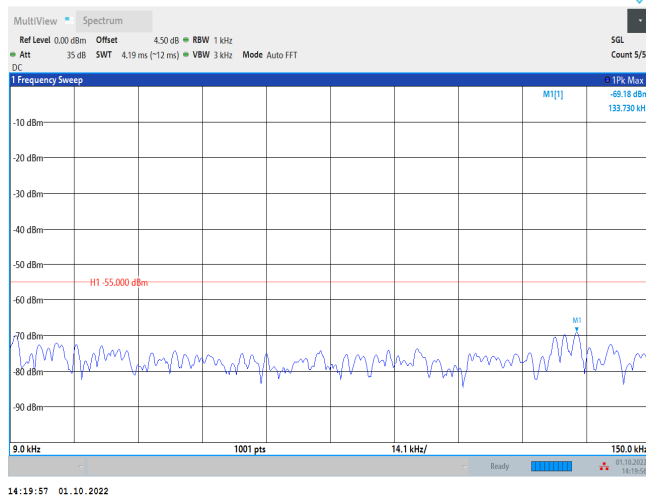
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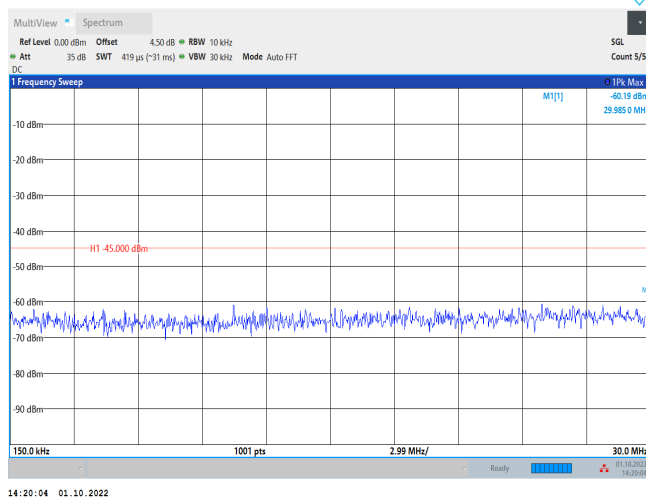
Rev.: 01

Page: 36 of 51

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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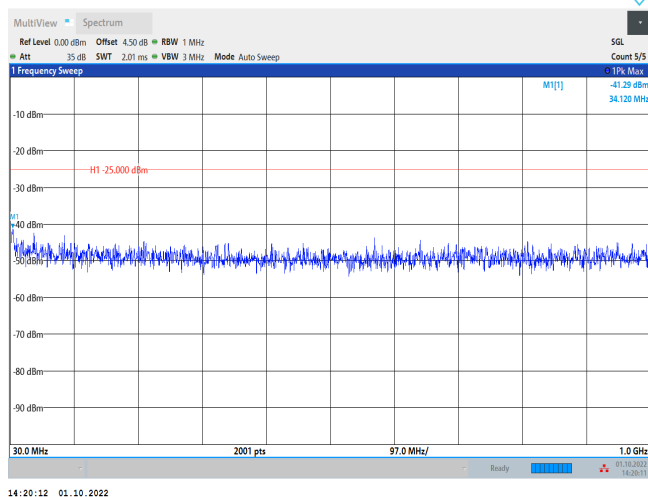
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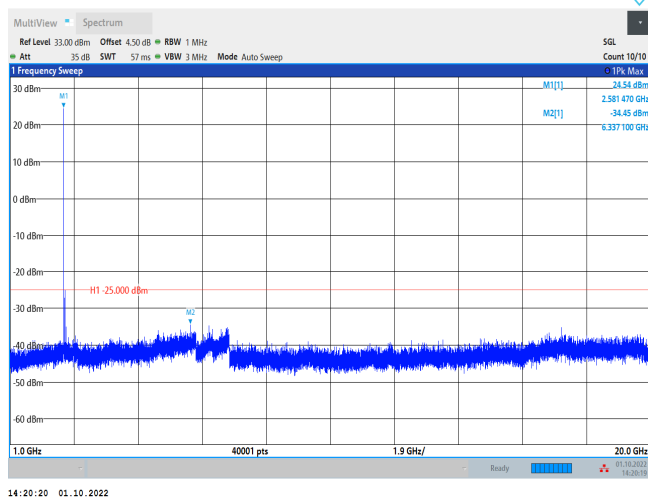
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Rev.: 01
Page: 37 of 51

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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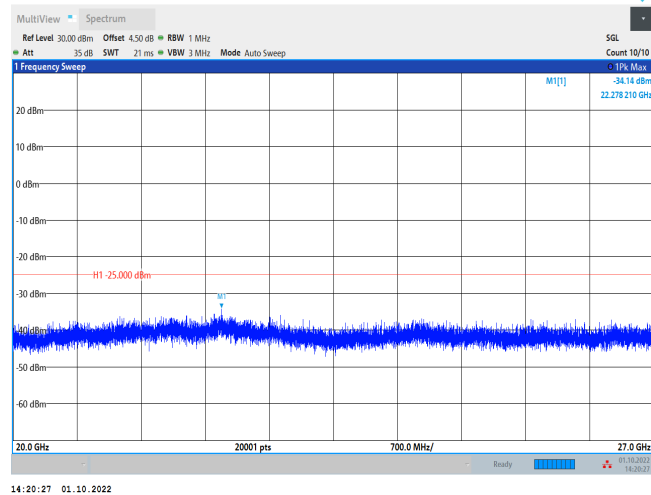
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Report No.: SEWM2209000168RG01

Rev.: 01

Page: 38 of 51

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



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 Wireless Laboratory

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Report No.: SEWM2209000168RG01

Rev.: 01

Page: 39 of 51

Field Strength of Spurious Radiation**Test Band = UL CA Band 38C ANT0_ TM1****Test Channel = Low Channel**

Final 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	51.27	-44.23	32.60	-55.62	-25.00	30.62	263	232	Horizontal
2	7713.27	49.83	-41.23	36.93	-49.73	-25.00	24.73	241	345	Horizontal
3	10284.36	43.72	-36.79	38.81	-49.52	-25.00	24.52	176	69	Horizontal
4	12855.45	43.03	-34.96	39.46	-47.73	-25.00	22.73	262	345	Horizontal
5	15426.54	42.77	-33.96	38.64	-47.80	-25.00	22.80	251	3	Horizontal
6	17997.63	39.51	-31.42	42.59	-44.58	-25.00	19.58	184	34	Horizontal

Final 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	53.36	-44.23	32.60	-53.53	-25.00	28.53	263	3	Vertical
2	7713.27	49.80	-41.23	36.93	-49.76	-25.00	24.76	320	218	Vertical
3	10284.36	44.08	-36.79	38.81	-49.16	-25.00	24.16	251	22	Vertical
4	12855.45	43.92	-34.96	39.46	-46.84	-25.00	21.84	175	297	Vertical
5	15426.54	41.37	-33.96	38.64	-49.20	-25.00	24.20	241	57	Vertical
6	17997.63	38.99	-31.42	42.59	-45.10	-25.00	20.10	188	321	Vertical



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Report No.: SEWM2209000168RG01

Rev.: 01

Page: 40 of 51

Test Band = UL CA Band 38C ANT0_TM1

Test Channel = Mid Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5152.38	50.63	-44.21	32.60	-56.24	-25.00	31.24	263	272	Horizontal
2	7728.57	49.35	-41.12	36.96	-50.07	-25.00	25.07	251	182	Horizontal
3	10304.76	43.21	-36.81	38.84	-50.03	-25.00	25.03	142	3	Horizontal
4	12880.95	43.94	-34.90	39.48	-46.74	-25.00	21.74	262	182	Horizontal
5	15457.14	41.99	-34.05	38.60	-48.71	-25.00	23.71	284	360	Horizontal
6	17912.142	42.38	-31.10	42.25	-41.74	-25.00	16.74	177	357	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5152.38	50.36	-44.21	32.60	-56.51	-25.00	31.51	252	357	Vertical
2	7728.57	49.59	-41.12	36.96	-49.83	-25.00	24.83	251	204	Vertical
3	10304.76	43.63	-36.81	38.84	-49.61	-25.00	24.61	147	147	Vertical
4	12880.95	44.35	-34.90	39.48	-46.33	-25.00	21.33	263	135	Vertical
5	15457.14	42.44	-34.05	38.60	-48.26	-25.00	23.26	244	33	Vertical
6	17850	42.46	-30.93	42.00	-41.74	-25.00	16.74	132	360	Vertical



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Report No.: SEWM2209000168RG01

Rev.: 01

Page: 41 of 51

Test Band = UL CA Band 38C ANT0_TM1

Test Channel = High Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5162.58	49.20	-44.20	32.60	-57.66	-25.00	32.66	263	360	Horizontal
2	7743.87	48.83	-41.02	36.99	-50.46	-25.00	25.46	241	266	Horizontal
3	10325.16	44.12	-36.73	38.86	-49.02	-25.00	24.02	178	173	Horizontal
4	12906.45	43.70	-34.87	39.51	-46.92	-25.00	21.92	265	312	Horizontal
5	15487.74	41.20	-34.14	38.56	-49.63	-25.00	24.63	255	344	Horizontal
6	17850	42.97	-30.93	42.00	-41.23	-25.00	16.23	187	149	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5162.58	49.30	-44.20	32.60	-57.56	-25.00	32.56	263	360	Vertical
2	7743.87	50.15	-41.02	36.99	-49.14	-25.00	24.14	214	298	Vertical
3	10325.16	43.29	-36.73	38.86	-49.85	-25.00	24.85	175	298	Vertical
4	12906.45	42.65	-34.87	39.51	-47.97	-25.00	22.97	262	332	Vertical
5	15487.74	42.18	-34.14	38.56	-48.65	-25.00	23.65	251	360	Vertical
6	17852.142	43.21	-30.94	42.01	-40.98	-25.00	15.98	144	68	Vertical



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Rev.: 01

Page: 42 of 51

Test Band = UL CA Band 38C ANT1_ TM1

Test Channel = Low Channel

Final 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	51.13	-44.23	32.60	-55.76	-25.00	30.76	263	142	Horizontal
2	7713.27	49.37	-41.23	36.93	-50.19	-25.00	25.19	251	223	Horizontal
3	10284.36	43.75	-36.79	38.81	-49.49	-25.00	24.49	174	9	Horizontal
4	12855.45	42.90	-34.96	39.46	-47.86	-25.00	22.86	162	84	Horizontal
5	15426.54	41.68	-33.96	38.64	-48.89	-25.00	23.89	241	2	Horizontal
6	17997.63	39.12	-31.42	42.59	-44.97	-25.00	19.97	263	270	Horizontal

Final 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	51.91	-44.23	32.60	-54.98	-25.00	29.98	263	96	Vertical
2	7713.27	50.66	-41.23	36.93	-48.90	-25.00	23.90	241	57	Vertical
3	10284.36	44.40	-36.79	38.81	-48.84	-25.00	23.84	176	131	Vertical
4	12855.45	43.81	-34.96	39.46	-46.95	-25.00	21.95	264	294	Vertical
5	15426.54	41.23	-33.96	38.64	-49.34	-25.00	24.34	188	186	Vertical
6	17997.63	39.38	-31.42	42.59	-44.71	-25.00	19.71	183	255	Vertical



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Rev.: 01

Page: 43 of 51

Test Band = UL CA Band 38C ANT1_ TM1

Test Channel = Mid Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5172.18	49.85	-44.19	32.60	-57.00	-25.00	32.00	263	95	Horizontal
2	7758.27	49.00	-40.91	37.02	-50.15	-25.00	25.15	251	131	Horizontal
3	10344.36	42.36	-36.67	38.88	-50.69	-25.00	25.69	175	38	Horizontal
4	12930.45	43.00	-34.88	39.53	-47.61	-25.00	22.61	265	357	Horizontal
5	15516.54	42.11	-34.12	38.53	-48.74	-25.00	23.74	241	71	Horizontal
6	17865	42.41	-30.97	42.06	-41.76	-25.00	16.76	178	176	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5172.18	51.83	-44.19	32.60	-55.02	-25.00	30.02	362	127	Vertical
2	7758.27	47.96	-40.91	37.02	-51.19	-25.00	26.19	251	71	Vertical
3	10344.36	43.14	-36.67	38.88	-49.91	-25.00	24.91	186	9	Vertical
4	12930.45	42.69	-34.88	39.53	-47.92	-25.00	22.92	264	23	Vertical
5	15516.54	40.78	-34.12	38.53	-50.07	-25.00	25.07	176	178	Vertical
6	17907.857	42.70	-31.09	42.23	-41.42	-25.00	16.42	263	94	Vertical



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Report No.: SEWM2209000168RG01

Rev.: 01

Page: 44 of 51

Test Band = UL CA Band 38C ANT1_ TM1

Test Channel = High Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5202.18	50.20	-44.15	32.60	-56.61	-25.00	31.61	263	96	Horizontal
2	7803.27	49.20	-40.62	37.11	-49.57	-25.00	24.57	251	339	Horizontal
3	10404.36	42.63	-36.47	38.95	-50.15	-25.00	25.15	174	304	Horizontal
4	13005.45	43.96	-34.89	39.60	-46.58	-25.00	21.58	186	9	Horizontal
5	15606.54	42.97	-33.91	38.41	-47.79	-25.00	22.79	264	2	Horizontal
6	17865	42.58	-30.97	42.06	-41.59	-25.00	16.59	148	62	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5202.18	53.62	-44.15	32.60	-53.19	-25.00	28.19	263	96	Vertical
2	7803.27	48.79	-40.62	37.11	-49.98	-25.00	24.98	251	71	Vertical
3	10404.36	42.67	-36.47	38.95	-50.11	-25.00	25.11	174	338	Vertical
4	13005.45	42.88	-34.89	39.60	-47.66	-25.00	22.66	263	254	Vertical
5	15606.54	41.57	-33.91	38.41	-49.19	-25.00	24.19	241	178	Vertical
6	17854.285	41.99	-30.95	42.02	-42.20	-25.00	17.20	268	164	Vertical



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Report No.: SEWM2209000168RG01

Rev.: 01

Page: 45 of 51

Test Band = CA Band 38C ANT2_ TM1

Test Channel = Low Channel

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4994.18	50.93	-44.94	32.59	-56.68	-25.00	31.68	241	340	Horizontal
2	7491.27	48.48	-41.63	36.49	-51.92	-25.00	26.92	175	0	Horizontal
3	9988.36	45.23	-37.16	38.50	-48.69	-25.00	23.69	265	161	Horizontal
4	12485.45	43.01	-35.26	39.09	-48.42	-25.00	23.42	241	223	Horizontal
5	14982.54	41.88	-33.99	39.22	-48.15	-25.00	23.15	186	18	Horizontal
6	17479.63	39.84	-31.91	40.53	-46.80	-25.00	21.80	326	188	Horizontal

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4994.18	51.29	-44.94	32.59	-56.32	-25.00	31.32	142	170	Vertical
2	7491.27	48.41	-41.63	36.49	-51.99	-25.00	26.99	265	0	Vertical
3	9988.36	45.11	-37.16	38.50	-48.81	-25.00	23.81	298	35	Vertical
4	12485.45	44.11	-35.26	39.09	-47.32	-25.00	22.32	241	242	Vertical
5	14982.54	42.70	-33.99	39.22	-47.33	-25.00	22.33	175	125	Vertical
6	17479.63	40.19	-31.91	40.53	-46.45	-25.00	21.45	201	170	Vertical



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Report No.: SEWM2209000168RG01

Rev.: 01

Page: 46 of 51

Test Band = CA Band 38C ANT2_ TM1

Test Channel = Mid Channel

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5168.18	50.26	-44.19	32.60	-56.59	-25.00	31.59	142	179	Horizontal
2	7752.27	50.06	-40.95	37.01	-49.15	-25.00	24.15	285	1	Horizontal
3	10336.36	43.90	-36.70	38.87	-49.19	-25.00	24.19	263	0	Horizontal
4	12920.45	43.29	-34.87	39.52	-47.32	-25.00	22.32	295	3	Horizontal
5	15504.54	40.89	-34.15	38.54	-49.98	-25.00	24.98	241	358	Horizontal
6	17982.857	42.30	-31.37	42.53	-41.80	-25.00	16.80	102	224	Horizontal

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5168.18	52.67	-44.19	32.60	-54.18	-25.00	29.18	265	7	Vertical
2	7752.27	50.24	-40.95	37.01	-48.97	-25.00	23.97	241	313	Vertical
3	10336.36	43.19	-36.70	38.87	-49.90	-25.00	24.90	178	322	Vertical
4	12920.45	43.23	-34.87	39.52	-47.38	-25.00	22.38	201	313	Vertical
5	15504.54	42.13	-34.15	38.54	-48.74	-25.00	23.74	145	170	Vertical
6	17826.428	42.13	-30.88	41.91	-42.10	-25.00	17.10	263	145	Vertical



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Report No.: SEWM2209000168RG01

Rev.: 01

Page: 47 of 51

Test Band = CA Band 38C ANT2_ TM1

Test Channel = High Channel

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5255.18	52.55	-44.07	32.60	-54.18	-25.00	29.18	163	0	Horizontal
2	7882.77	47.06	-40.65	37.27	-51.59	-25.00	26.59	254	109	Horizontal
3	10510.36	43.91	-36.37	39.06	-48.65	-25.00	23.65	142	190	Horizontal
4	13137.95	43.87	-34.60	39.68	-46.31	-25.00	21.31	296	1	Horizontal
5	15765.54	43.11	-34.12	38.20	-48.07	-25.00	23.07	201	101	Horizontal
6	17865	41.79	-30.97	42.06	-42.38	-25.00	17.38	142	172	Horizontal

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5255.18	51.00	-44.07	32.60	-55.73	-25.00	30.73	241	357	Vertical
2	7882.77	47.35	-40.65	37.27	-51.30	-25.00	26.30	178	108	Vertical
3	10510.36	43.85	-36.37	39.06	-48.71	-25.00	23.71	265	82	Vertical
4	13137.95	44.47	-34.60	39.68	-45.71	-25.00	20.71	241	306	Vertical
5	15765.54	42.61	-34.12	38.20	-48.57	-25.00	23.57	126	270	Vertical
6	17914.285	42.14	-31.11	42.26	-41.98	-25.00	16.98	296	207	Vertical



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Report No.: SEWM2209000168RG01

Rev.: 01

Page: 48 of 51

Test Band = CA Band 38C ANT3_ TM1

Test Channel = Low Channel

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5002.2	51.43	-44.92	32.60	-56.15	-25.00	31.15	211	185	Horizontal
2	7503.3	48.71	-41.59	36.51	-51.63	-25.00	26.63	142	246	Horizontal
3	10004.4	43.95	-37.13	38.51	-49.94	-25.00	24.94	263	315	Horizontal
4	12505.5	43.43	-35.23	39.11	-47.95	-25.00	22.95	268	194	Horizontal
5	15006.6	42.23	-34.00	39.19	-47.84	-25.00	22.84	241	357	Horizontal
6	17507.7	39.33	-31.88	40.64	-47.17	-25.00	22.17	196	246	Horizontal

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5002.2	50.41	-44.92	32.60	-57.17	-25.00	32.17	201	13	Vertical
2	7503.3	49.21	-41.59	36.51	-51.13	-25.00	26.13	142	307	Vertical
3	10004.4	45.65	-37.13	38.51	-48.24	-25.00	23.24	263	134	Vertical
4	12505.5	43.30	-35.23	39.11	-48.08	-25.00	23.08	265	357	Vertical
5	15006.6	42.78	-34.00	39.19	-47.29	-25.00	22.29	241	109	Vertical
6	17507.7	39.89	-31.88	40.64	-46.61	-25.00	21.61	186	238	Vertical



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Report No.: SEWM2209000168RG01

Rev.: 01

Page: 49 of 51

Test Band = CA Band 38C ANT3_ TM1

Test Channel = Mid Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5096.16	50.36	-44.30	32.60	-56.60	-25.00	31.60	201	149	Horizontal
2	7644.24	49.25	-41.29	36.79	-50.51	-25.00	25.51	142	1	Horizontal
3	10192.32	45.09	-36.57	38.71	-48.02	-25.00	23.02	263	1	Horizontal
4	12740.4	43.15	-35.11	39.34	-47.88	-25.00	22.88	265	123	Horizontal
5	15288.48	42.08	-33.72	38.82	-48.08	-25.00	23.08	241	0	Horizontal
6	17836.56	41.08	-30.90	41.95	-43.13	-25.00	18.13	178	306	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5134.2857	56.00	-44.24	32.60	-50.90	-25.00	25.90	201	109	Vertical
2	7644.24	48.77	-41.29	36.79	-50.99	-25.00	25.99	142	298	Vertical
3	10192.32	43.26	-36.57	38.71	-49.85	-25.00	24.85	263	48	Vertical
4	12740.4	43.73	-35.11	39.34	-47.30	-25.00	22.30	265	4	Vertical
5	15288.48	42.13	-33.72	38.82	-48.03	-25.00	23.03	288	289	Vertical
6	17836.56	40.61	-30.90	41.95	-43.60	-25.00	18.60	296	4	Vertical



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Test Band = CA Band 38C ANT3_ TM1

Test Channel = High Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5190.18	51.04	-44.16	32.60	-55.78	-25.00	30.78	102	0	Horizontal
2	7785.27	48.67	-40.71	37.07	-50.23	-25.00	25.23	142	273	Horizontal
3	10380.36	42.47	-36.53	38.92	-50.40	-25.00	25.40	263	342	Horizontal
4	12975.45	42.59	-34.91	39.58	-48.00	-25.00	23.00	295	264	Horizontal
5	15570.54	40.84	-33.96	38.46	-49.92	-25.00	24.92	241	0	Horizontal
6	17948.571	41.67	-31.24	42.39	-42.44	-25.00	17.44	178	212	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5190.18	51.46	-44.16	32.60	-55.36	-25.00	30.36	263	245	Vertical
2	7785.27	48.55	-40.71	37.07	-50.35	-25.00	25.35	264	193	Vertical
3	10380.36	42.42	-36.53	38.92	-50.45	-25.00	25.45	211	245	Vertical
4	12975.45	42.64	-34.91	39.58	-47.95	-25.00	22.95	175	81	Vertical
5	15570.54	40.83	-33.96	38.46	-49.93	-25.00	24.93	265	81	Vertical
6	17871.428	42.36	-30.99	42.09	-41.80	-25.00	16.80	204	0	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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Report No.: SEWM2209000168RG01

Rev.: 01

Page: 51 of 51

Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	VH	NT	36.40	0.014081	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	VL	NT	34.90	0.013500	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	VN	NT	32.10	0.012417	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	40.70	0.015744	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	-20	40.40	0.015628	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	-10	43.30	0.016750	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	0	42.30	0.016363	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	10	41.40	0.016015	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	20	42.00	0.016247	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	30	39.40	0.015241	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	40	40.00	0.015473	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	50	40.00	0.015473	PASS

---End of Attachment---



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