



Report No.: XEWM2309000451RG01

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Appendix B.16

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	23.12	22.32	33.00	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37825-37975	75RB#0-75RB#0	21.45	20.65	33.00	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37925-38075	1RB#0-0RB#0	23.27	22.47	33.00	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37925-38075	75RB#0-75RB#0	21.45	20.65	33.00	PASS
38-38	15MHz-15MHz	QPSK-QPSK	38025-38175	1RB#0-0RB#0	23.30	22.50	33.00	PASS
38-38	15MHz-15MHz	QPSK-QPSK	38025-38175	75RB#0-75RB#0	21.40	20.60	33.00	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37825-37975	1RB#0-0RB#0	22.09	21.29	33.00	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37825-37975	75RB#0-75RB#0	20.50	19.70	33.00	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37925-38075	1RB#0-0RB#0	22.23	21.43	33.00	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37925-38075	75RB#0-75RB#0	20.47	19.67	33.00	PASS
38-38	15MHz-15MHz	16QAM-16QAM	38025-38175	1RB#0-0RB#0	22.26	21.46	33.00	PASS
38-38	15MHz-15MHz	16QAM-16QAM	38025-38175	75RB#0-75RB#0	20.42	19.62	33.00	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37825-37975	1RB#0-0RB#0	20.69	19.89	33.00	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37825-37975	75RB#0-75RB#0	20.49	19.69	33.00	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37925-38075	1RB#0-0RB#0	20.83	20.03	33.00	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37925-38075	75RB#0-75RB#0	20.47	19.67	33.00	PASS
38-38	15MHz-15MHz	64QAM-64QAM	38025-38175	1RB#0-0RB#0	20.85	20.05	33.00	PASS
38-38	15MHz-15MHz	64QAM-64QAM	38025-38175	75RB#0-75RB#0	20.43	19.63	33.00	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37850-38048	100RB#0-100RB#0	21.38	20.58	33.00	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37850-38048	1RB#0-0RB#0	22.74	21.94	33.00	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	21.37	20.57	33.00	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	1RB#0-0RB#0	22.78	21.98	33.00	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	100RB#0-100RB#0	21.36	20.56	33.00	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	1RB#0-0RB#0	22.89	22.09	33.00	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37850-38048	100RB#0-100RB#0	20.39	19.59	33.00	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37850-38048	1RB#0-0RB#0	21.73	20.93	33.00	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	100RB#0-100RB#0	20.36	19.56	33.00	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	1RB#0-0RB#0	21.79	20.99	33.00	PASS



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38-38	20MHz-20MHz	16QAM-16QAM	37952-38150	100RB#0-100RB#0	20.38	19.58	33.00	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37952-38150	1RB#0-0RB#0	21.89	21.09	33.00	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37850-38048	100RB#0-100RB#0	20.33	19.53	33.00	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37850-38048	1RB#0-0RB#0	20.33	19.53	33.00	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37901-38099	100RB#0-100RB#0	20.38	19.58	33.00	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37901-38099	1RB#0-0RB#0	20.37	19.57	33.00	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37952-38150	100RB#0-100RB#0	20.27	19.47	33.00	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37952-38150	1RB#0-0RB#0	20.50	19.70	33.00	PASS



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Peak-to-Average Ratio(CCDF)**Test Result**

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
38-38	20MHz-20MHz	QPSK-QPSK	37850-38048	100RB#0-100RB#0	8.14	13	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	9.18	13	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	100RB#0-100RB#0	7.16	13	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37850-38048	100RB#0-100RB#0	9.18	13	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	100RB#0-100RB#0	7.78	13	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37952-38150	100RB#0-100RB#0	8.12	13	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37850-38048	100RB#0-100RB#0	8.52	13	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37901-38099	100RB#0-100RB#0	8.92	13	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37952-38150	100RB#0-100RB#0	8.50	13	PASS



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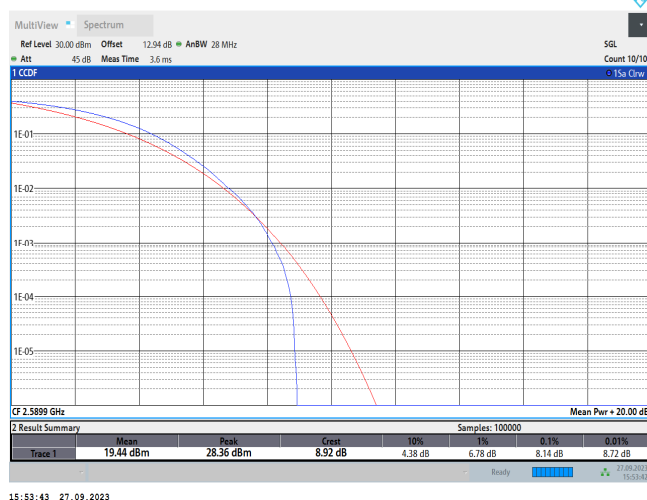
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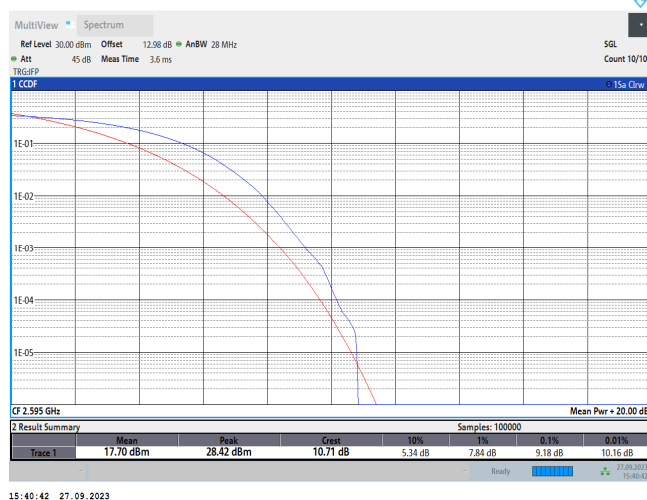
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Test Graphs

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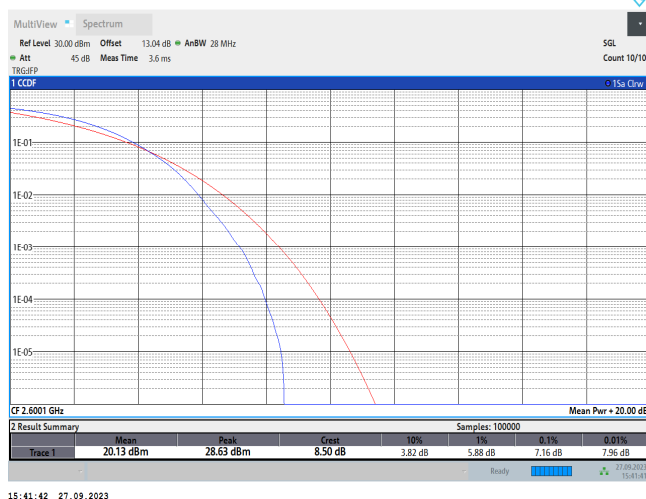
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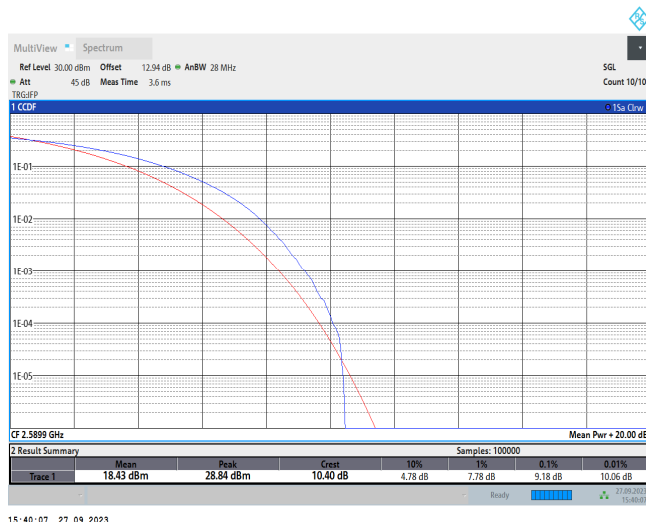
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38-38-20MHz-20MHz-16QAM-16QAM-37850-38048-100RB#0-100RB#0



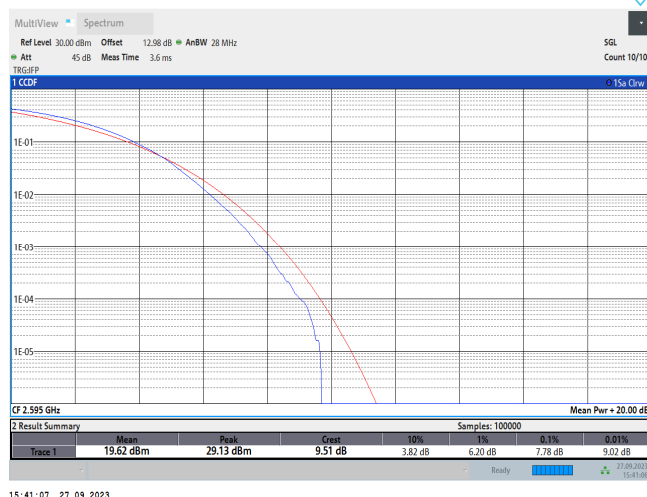


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38-38-20MHz-20MHz-16QAM-16QAM-37901-38099-100RB#0-100RB#0



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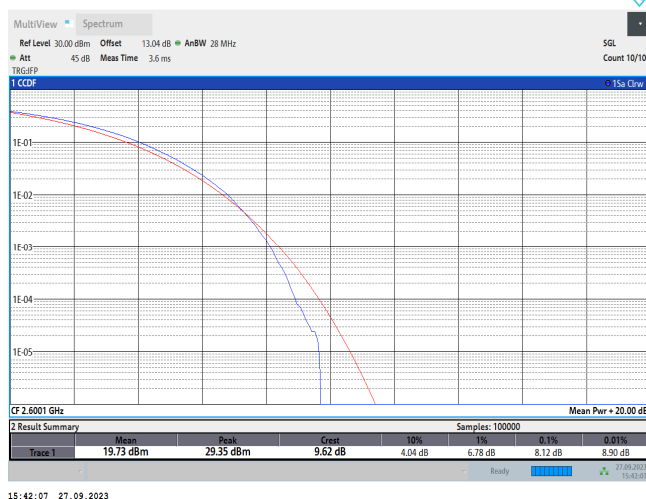
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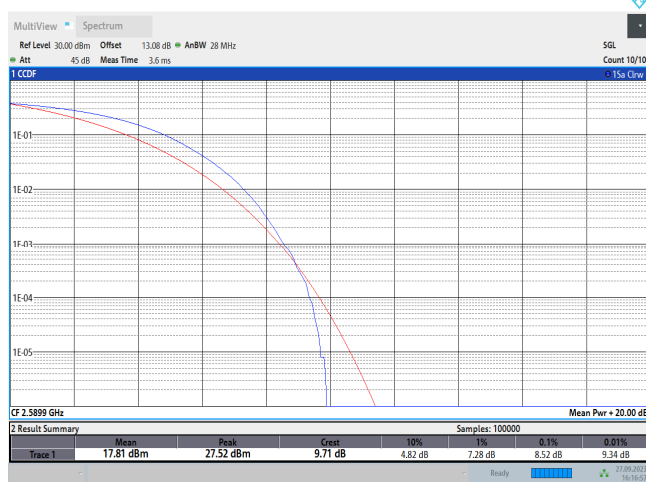
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38-38-20MHz-20MHz-16QAM-16QAM-37952-38150-100RB#0-100RB#0



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



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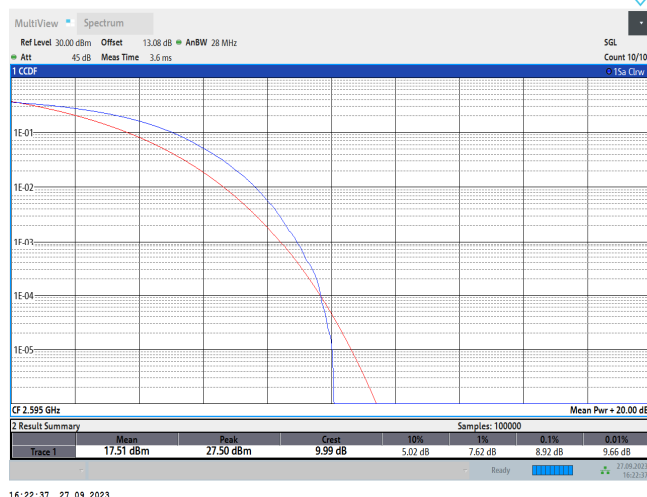
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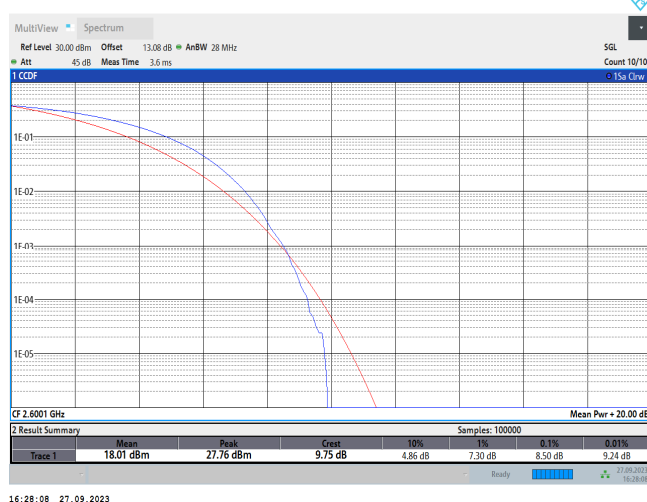
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38-38-20MHz-20MHz-64QAM-64QAM-37901-38099-100RB#0-100RB#0



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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	28.423	31.50	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37925-38075	75RB#0-75RB#0	28.404	31.38	PASS
38-38	15MHz-15MHz	QPSK-QPSK	38025-38175	75RB#0-75RB#0	28.398	31.20	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37825-37975	75RB#0-75RB#0	28.358	31.50	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37925-38075	75RB#0-75RB#0	28.337	31.38	PASS
38-38	15MHz-15MHz	16QAM-16QAM	38025-38175	75RB#0-75RB#0	28.333	31.56	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37825-37975	75RB#0-75RB#0	28.272	30.42	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37925-38075	75RB#0-75RB#0	28.254	30.48	PASS
38-38	15MHz-15MHz	64QAM-64QAM	38025-38175	75RB#0-75RB#0	28.258	30.42	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37850-38048	100RB#0-100RB#0	37.898	43.04	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	37.896	42.80	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	100RB#0-100RB#0	37.887	42.88	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37850-38048	100RB#0-100RB#0	37.734	40.64	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	100RB#0-100RB#0	37.73	40.56	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37952-38150	100RB#0-100RB#0	37.726	40.56	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37850-38048	100RB#0-100RB#0	37.735	42.24	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37901-38099	100RB#0-100RB#0	37.742	42.32	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37952-38150	100RB#0-100RB#0	37.736	42.32	PASS



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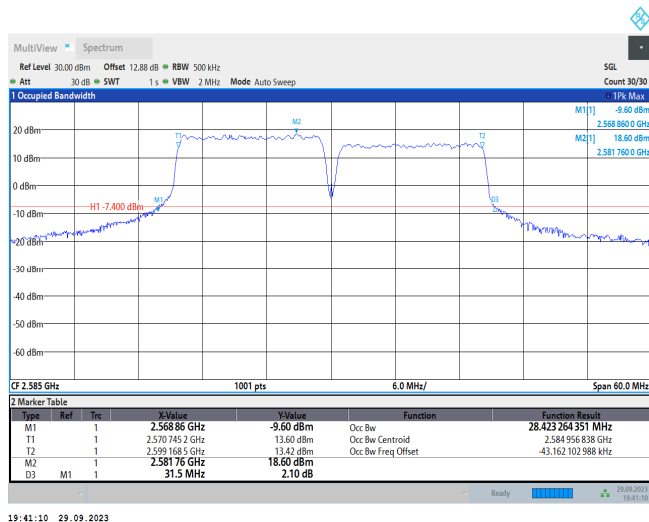
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Rev.: 01

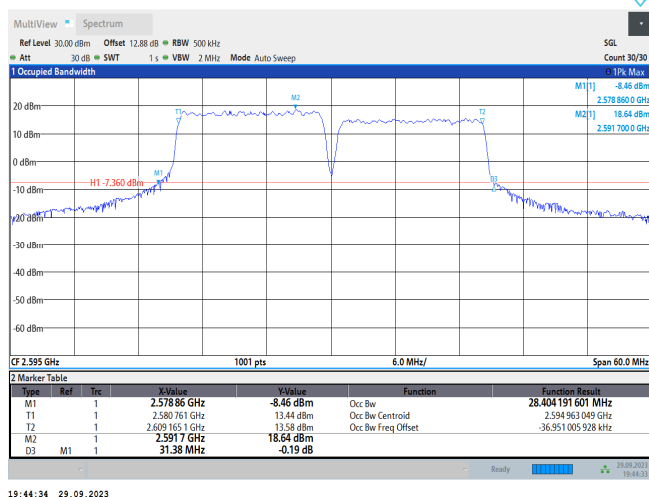
Page: 11 of 46

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

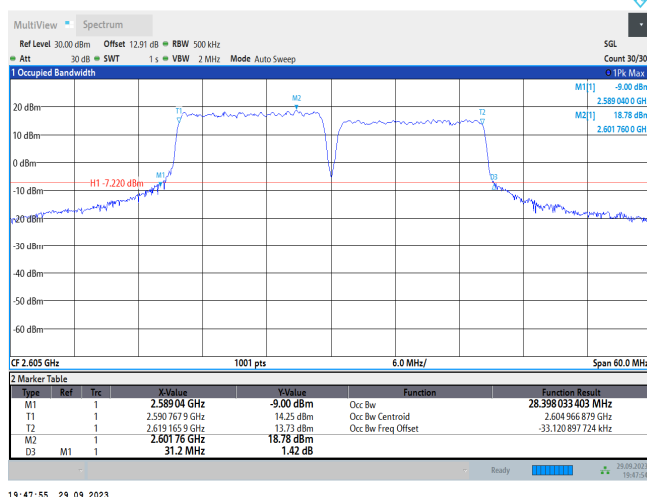


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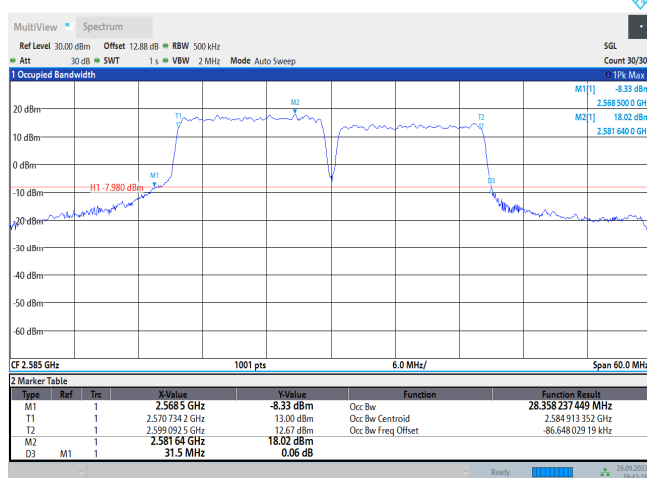
Page: 12 of 46

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



19:47:55 29.09.2023

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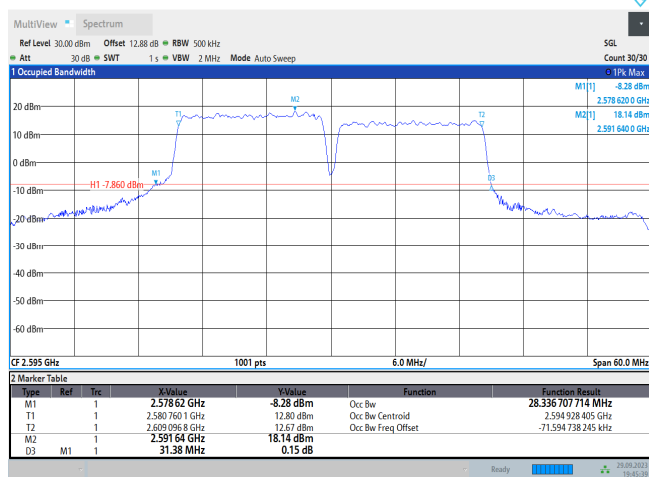
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Report No.: XEWM2309000451RG01

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Page: 13 of 46

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



19:45:39 29.09.2023



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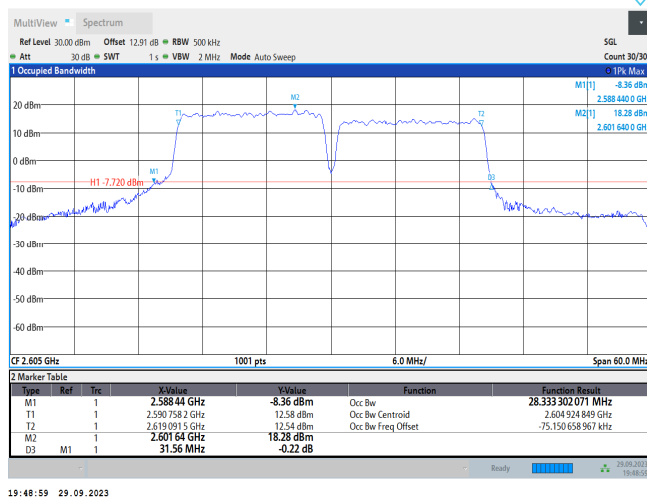
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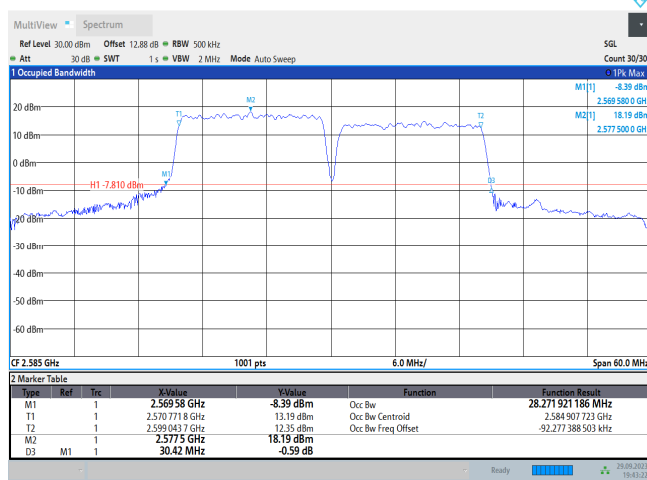
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19:48:59 29.09.2023

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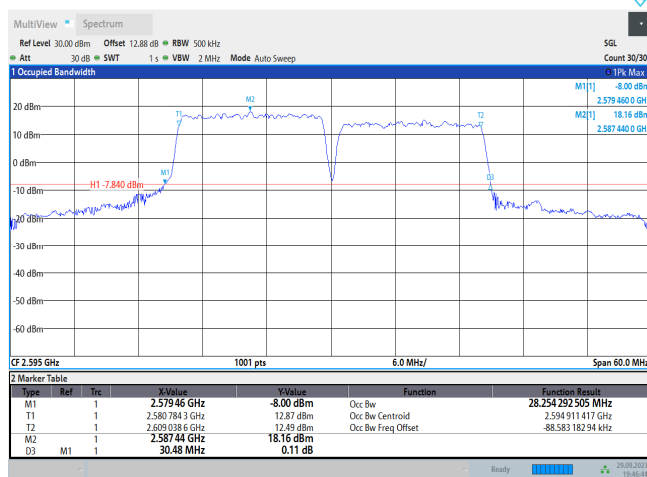
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Report No.: XEWM2309000451RG01

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



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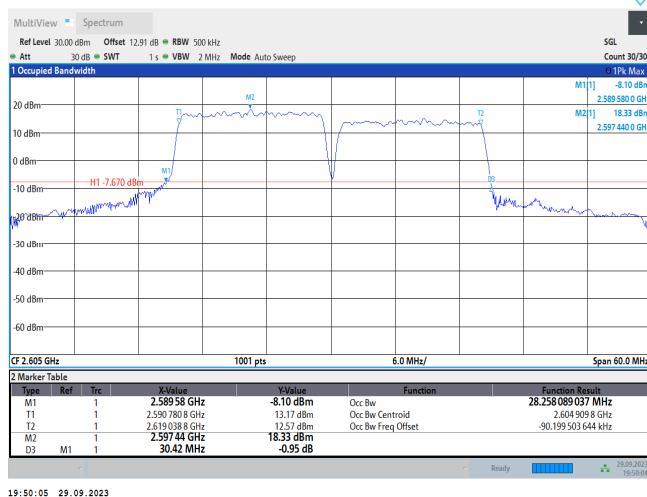
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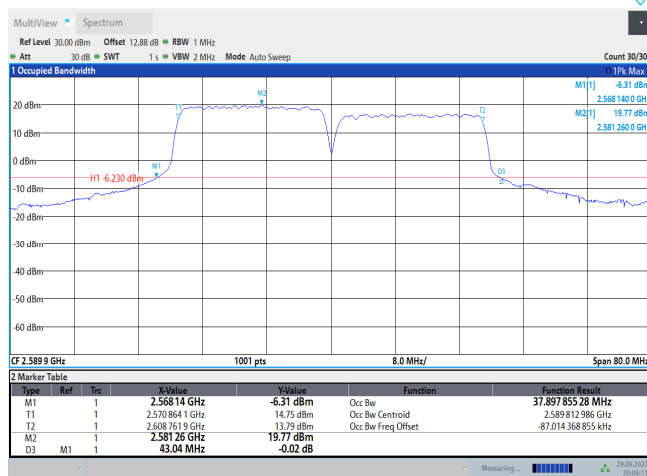
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38-38-15MHz-15MHz-64QAM-64QAM-38025-38175-75RB#0-75RB#0



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



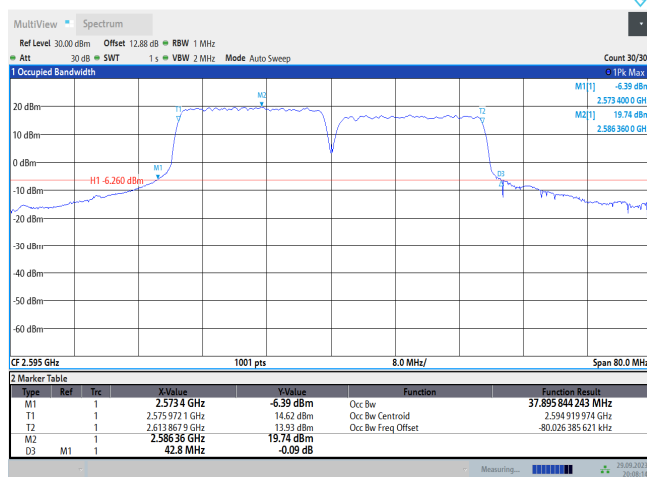
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38-38-20MHz-20MHz-QPSK-QPSK-37901-38099-100RB#0-100RB#0

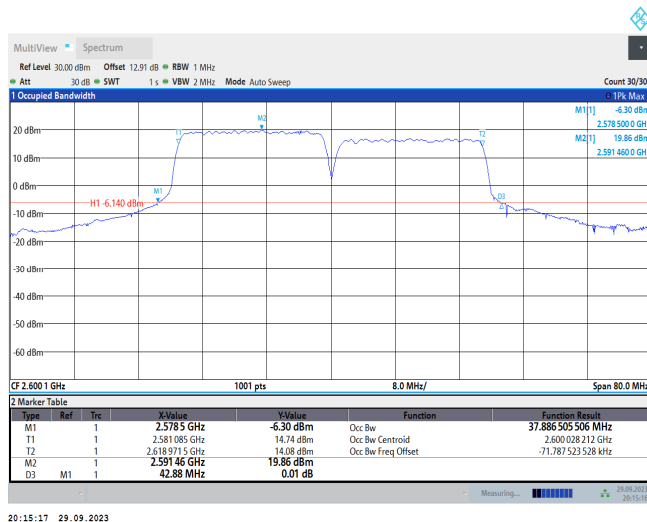


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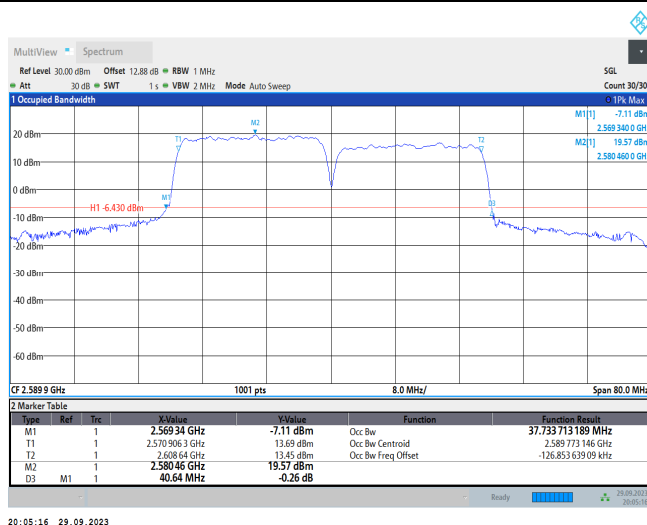
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38-38-20MHz-20MHz-QPSK-QPSK-37952-38150-100RB#0-100RB#0



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



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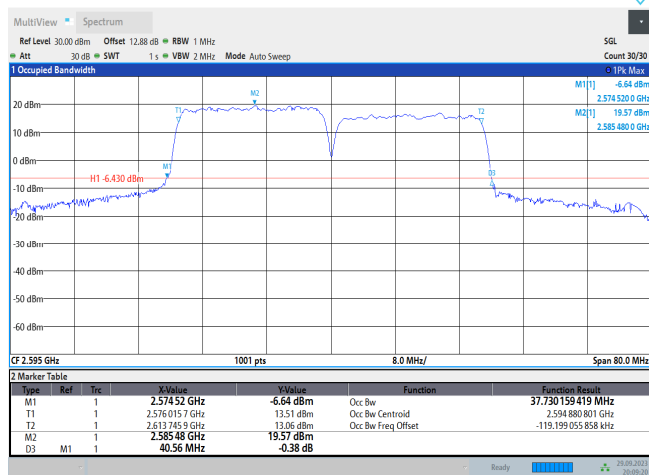
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38-38-20MHz-20MHz-16QAM-16QAM-37901-38099-100RB#0-100RB#0



20:09:20 29.09.2023



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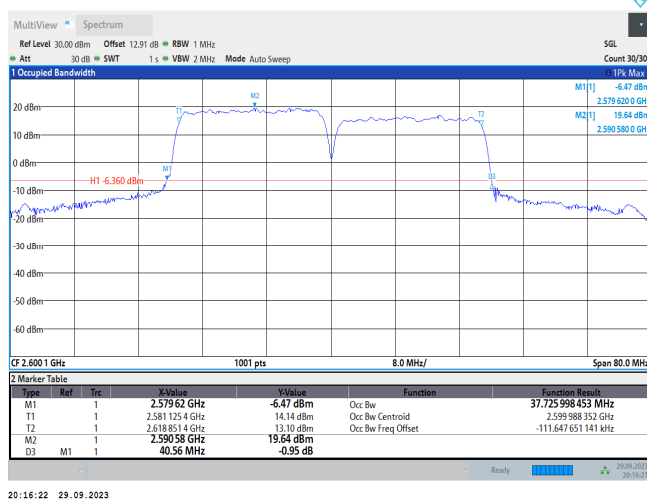
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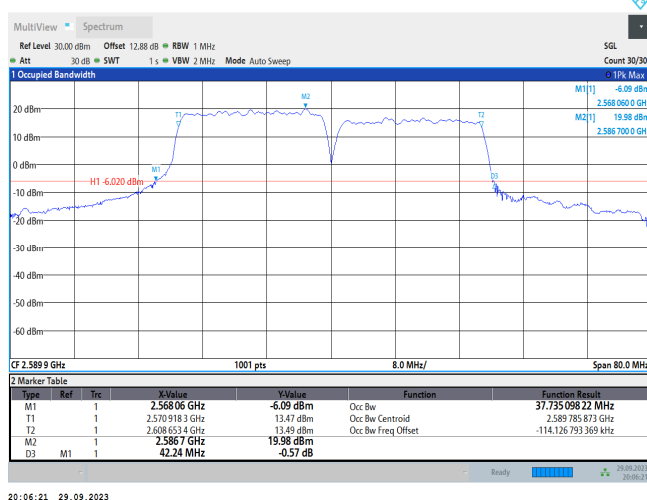
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38-38-20MHz-20MHz-16QAM-16QAM-37952-38150-100RB#0-100RB#0



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

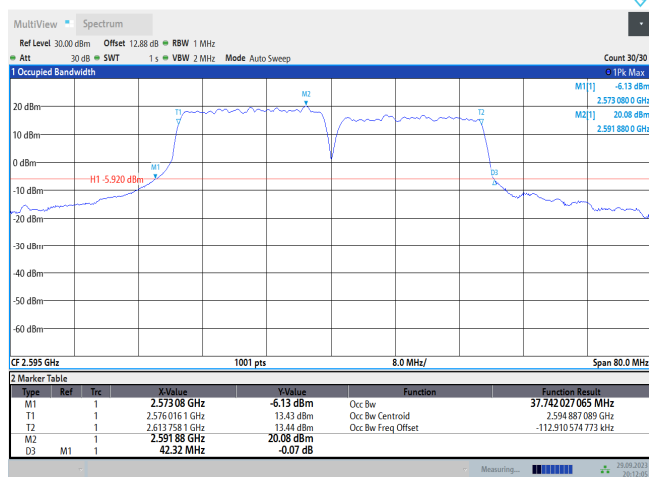


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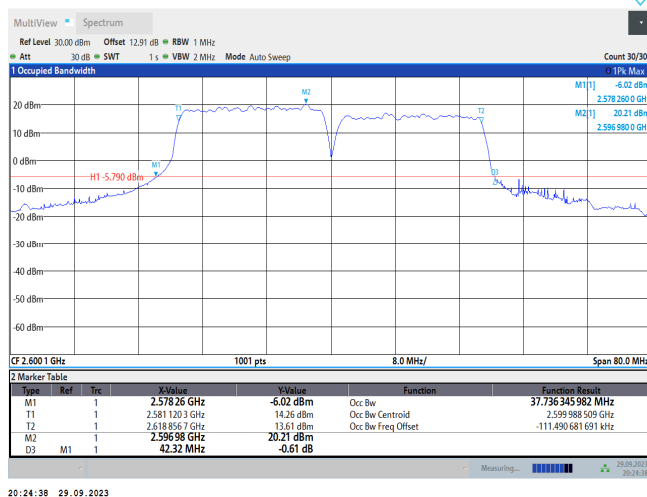


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38-38-20MHz-20MHz-64QAM-64QAM-37952-38150-100RB#0-100RB#0



20:24:38 29.09.2023



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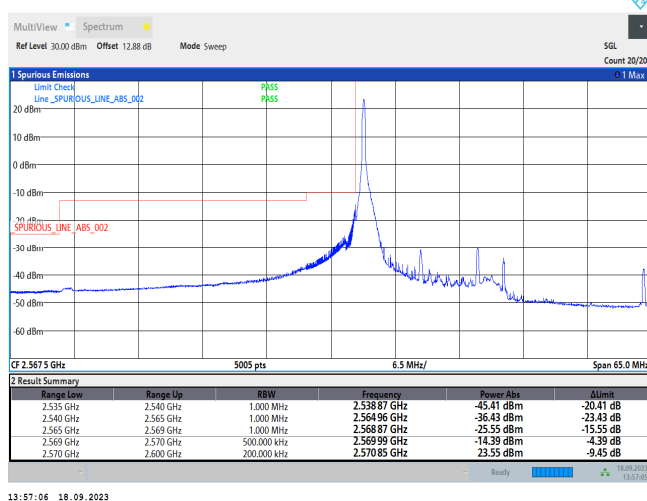
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Band Edge

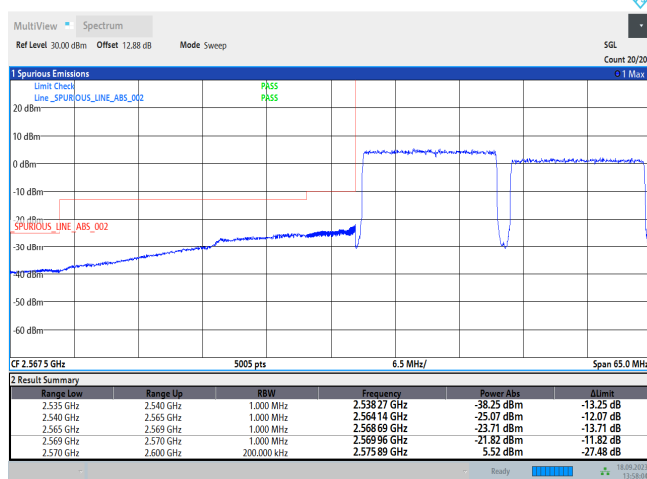
Test Graphs

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



13:57:06 18.09.2023

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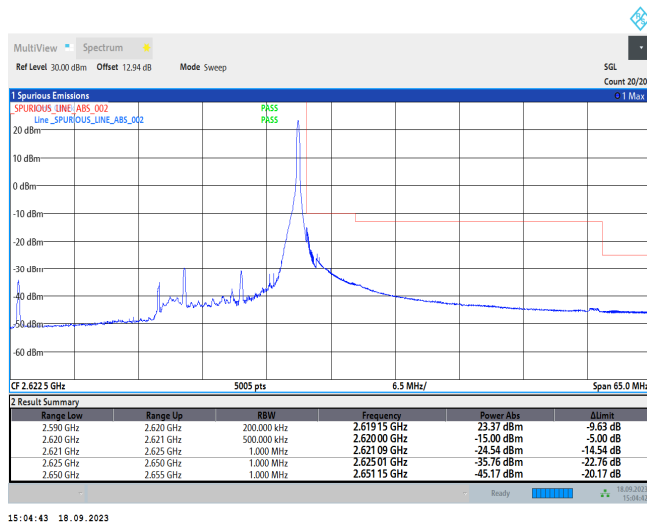
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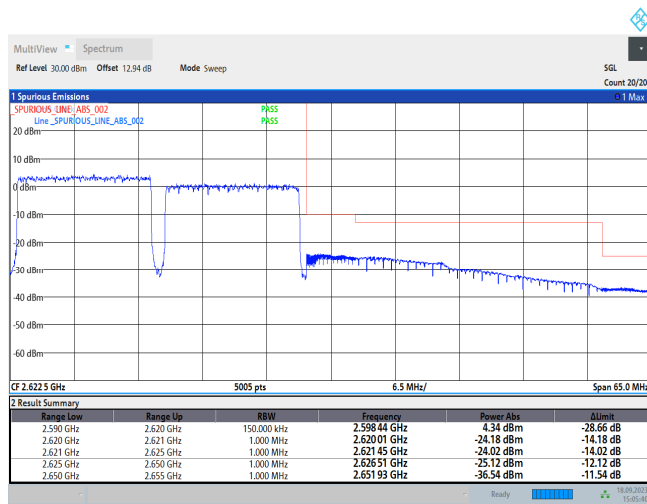
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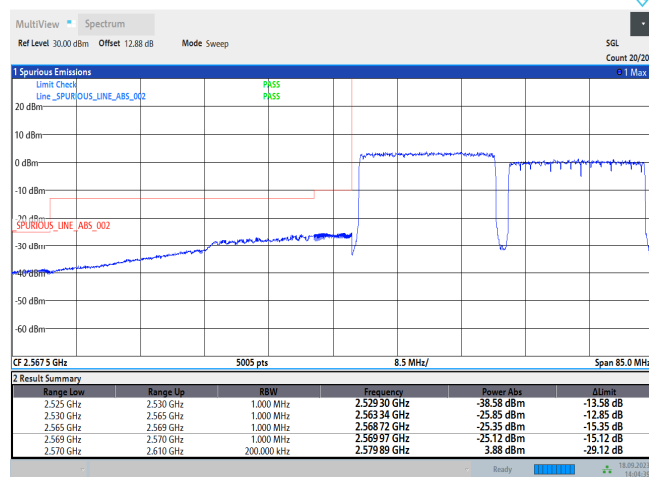
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38-38-20MHz-20MHz-QPSK-QPSK-37850-38048-100RB#0-100RB#0



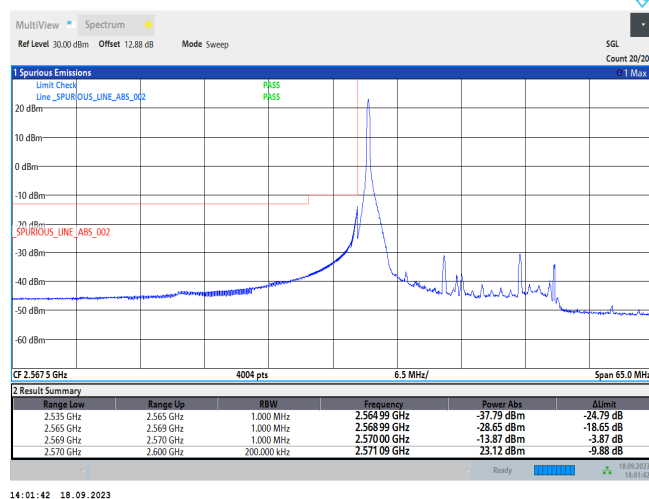
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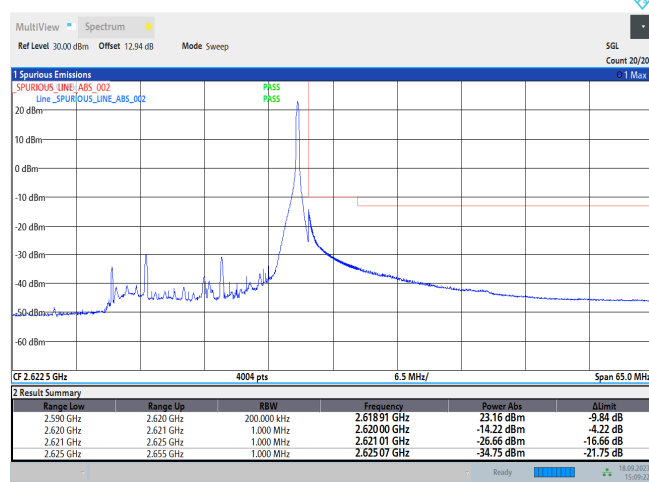
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15:09:23 18.09.2023



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



15:10:21 18.09.2023



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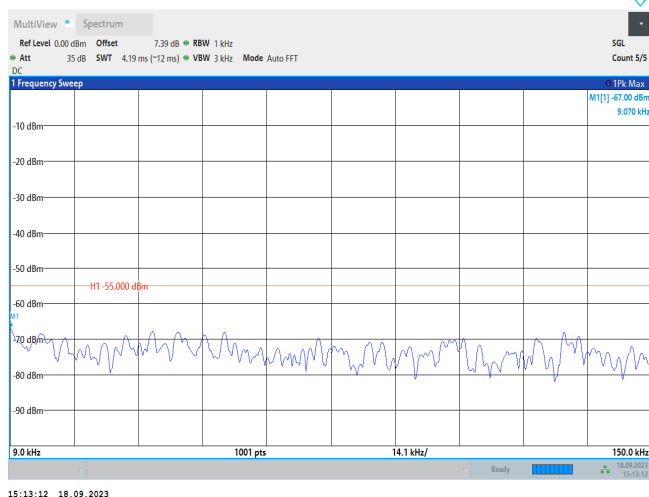
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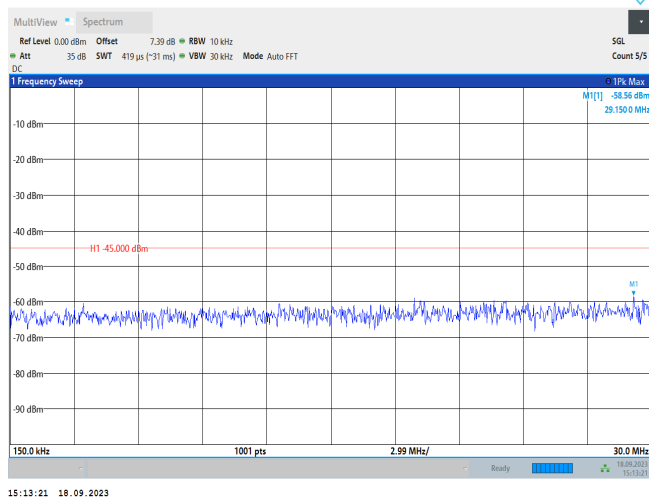
Conducted Spurious Emission

Test Graphs

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



38-38-20MHz-20MHz-QPSK-QPSK-37850-38048-1RB#0-0RB#0-0.15~30MHz



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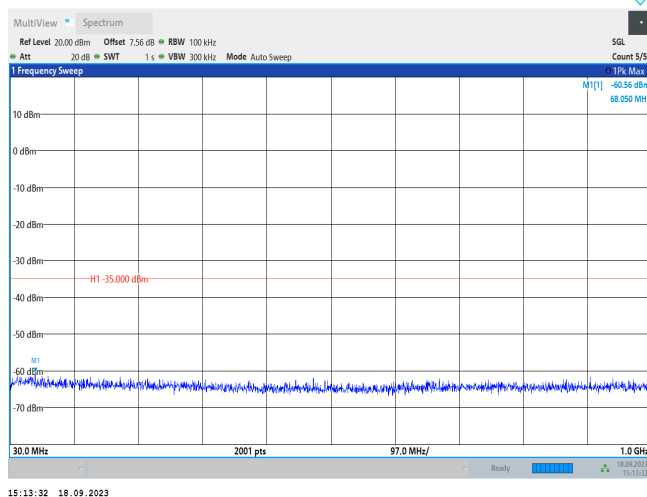
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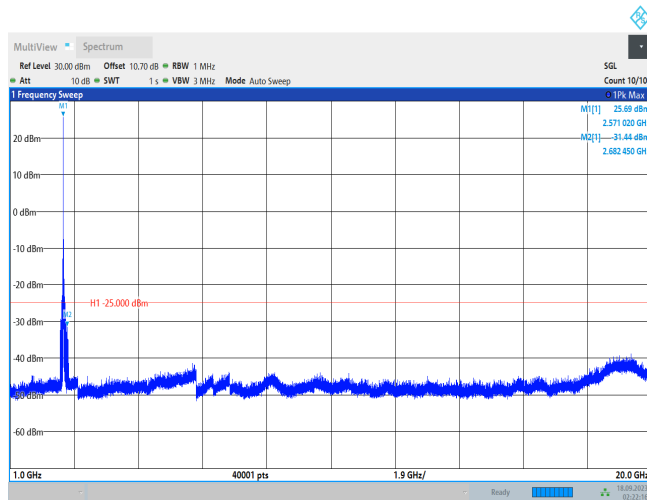
Page: 29 of 46

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



15:13:32 18.09.2023

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



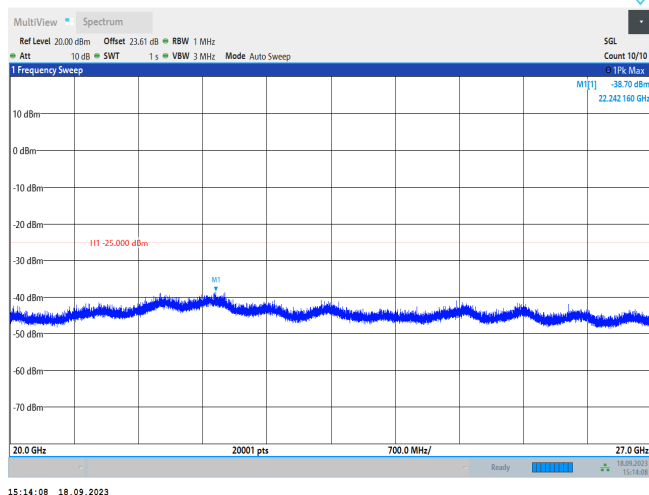
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38-38-20MHz-20MHz-QPSK-QPSK-37850-38048-1RB#0-0RB#0-20000~27000MHz



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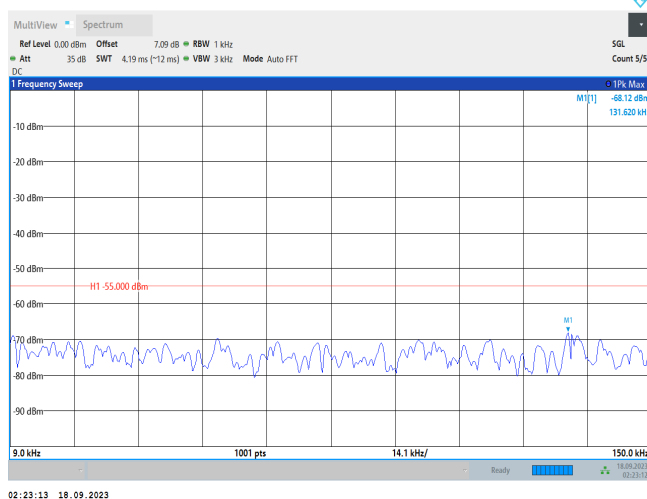
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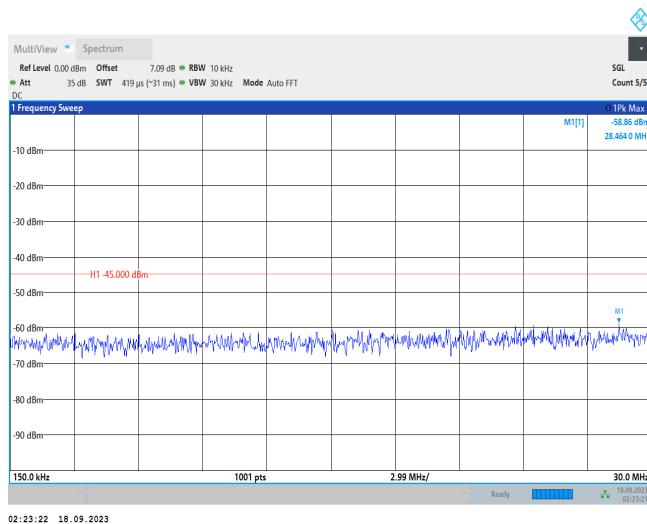
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38-38-20MHz-20MHz-QPSK-QPSK-37901-38099-1RB#0-0RB#0-0.009~0.15MHz



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

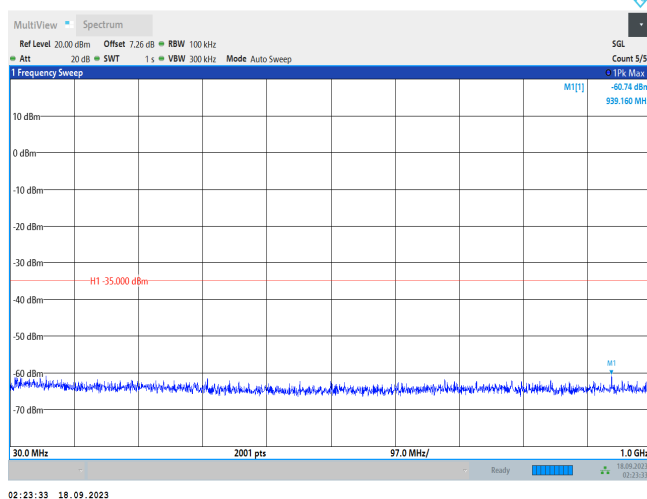


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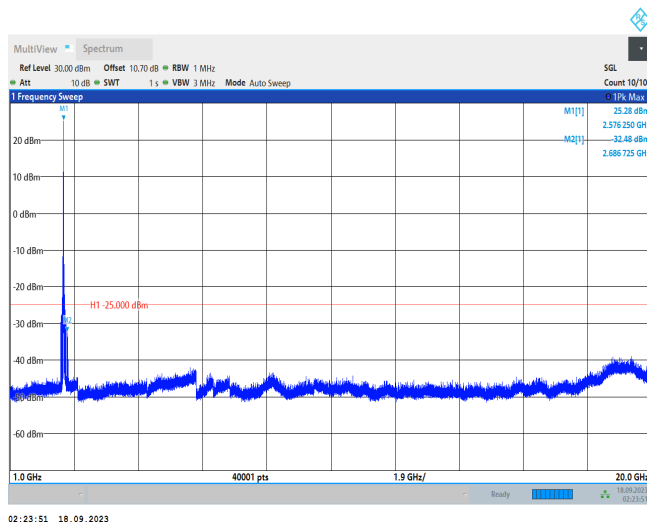
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38-38-20MHz-20MHz-QPSK-QPSK-37901-38099-1RB#0-0RB#0-30~1000MHz



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



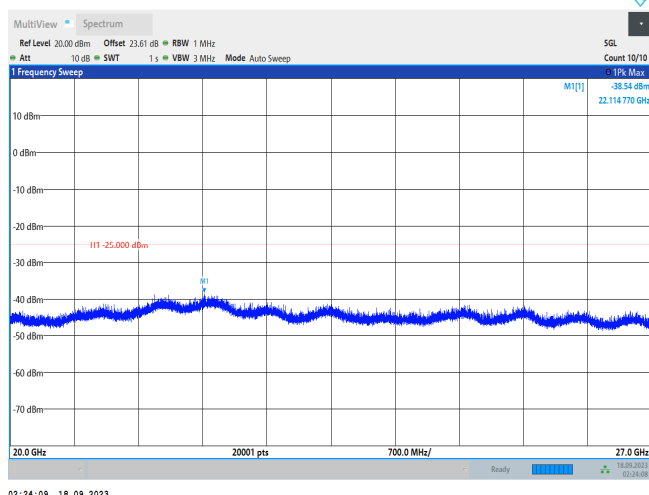


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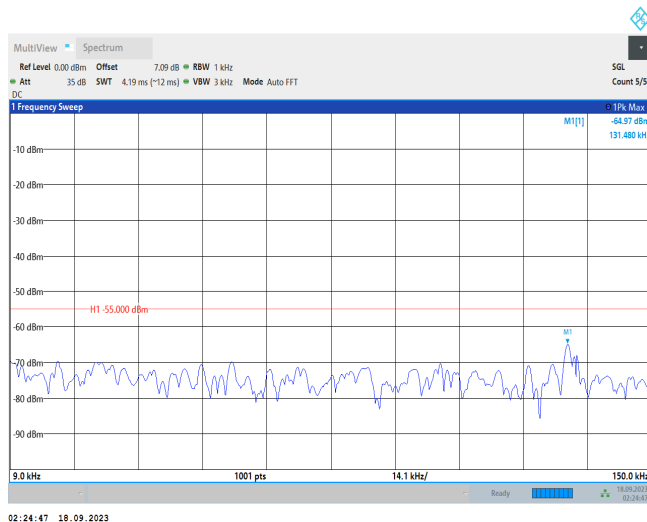


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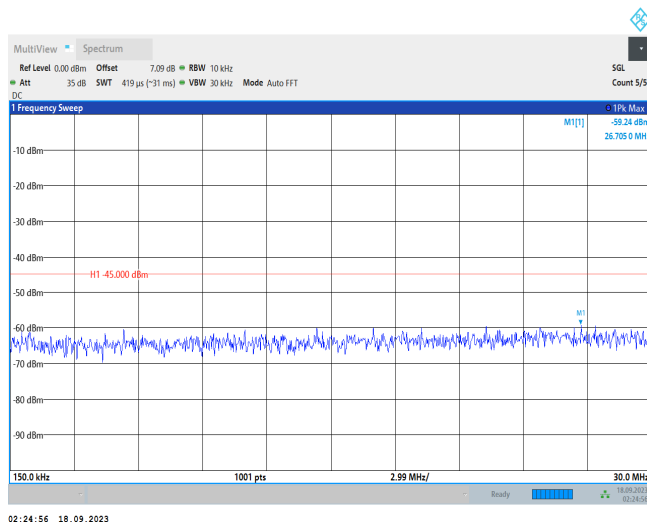
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38-38-20MHz-20MHz-QPSK-QPSK-37952-38150-1RB#0-0RB#0-0.009~0.15MHz



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



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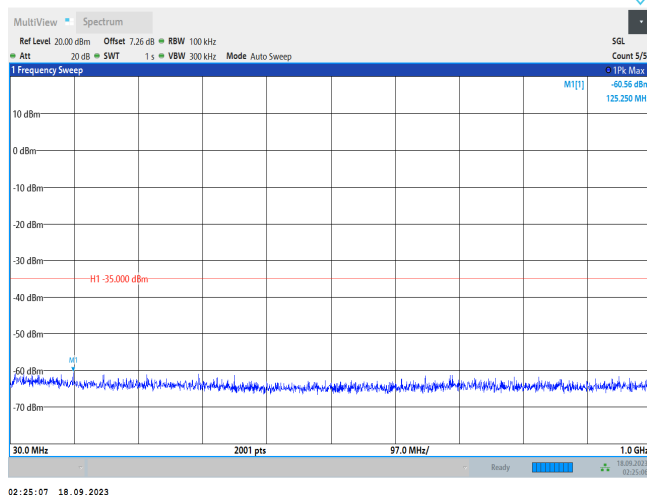


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38-38-20MHz-20MHz-QPSK-QPSK-37952-38150-1RB#0-0RB#0-30~1000MHz



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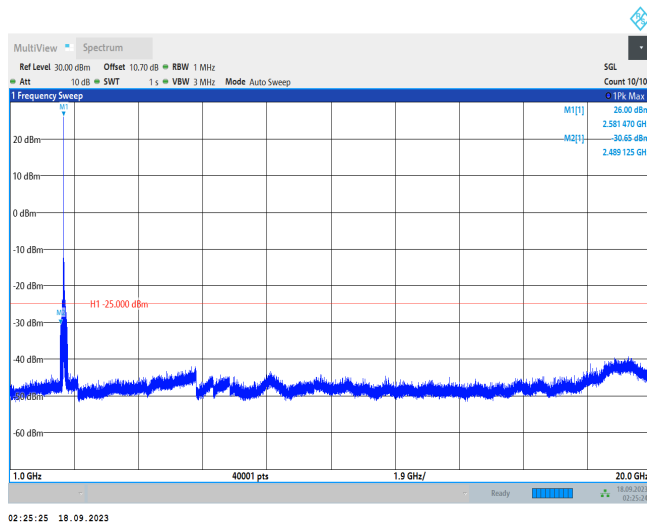
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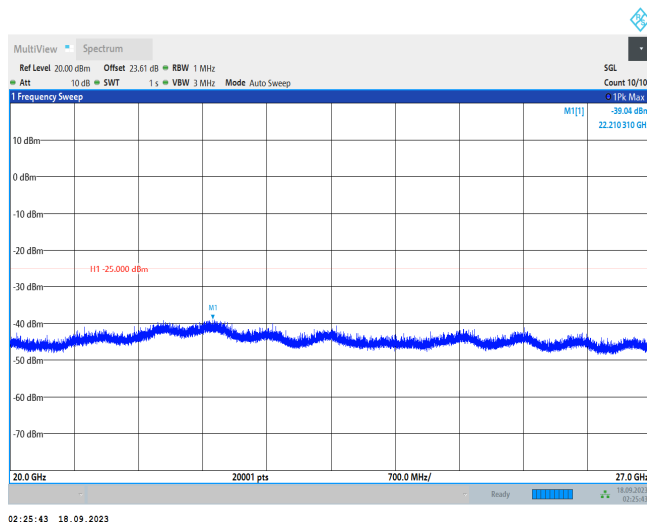
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38-38-20MHz-20MHz-QPSK-QPSK-37952-38150-1RB#0-0RB#0-1000~20000MHz



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 = CA_38C ANT 4
Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3940.5	47.32	-44.19	29.86	-62.27	-25.00	37.27	Horizontal
2	6053	45.33	-40.87	33.49	-57.31	-25.00	32.31	Horizontal
3	9015	42.78	-36.07	36.64	-51.91	-25.00	26.91	Horizontal
4	10945.5	43.05	-37.23	40.15	-49.29	-25.00	24.29	Horizontal
5	13550.5	42.95	-37.91	40.00	-50.22	-25.00	25.22	Horizontal
6	17981	41.51	-43.19	47.86	-49.08	-25.00	24.08	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3895.5	47.34	-44.23	29.70	-62.45	-25.00	37.45	Vertical
2	6334.5	45.87	-40.77	33.78	-56.38	-25.00	31.38	Vertical
3	7880	43.50	-37.56	36.62	-52.70	-25.00	27.70	Vertical
4	9887.5	42.54	-35.06	38.50	-49.28	-25.00	24.28	Vertical
5	11243	44.49	-39.36	40.16	-49.97	-25.00	24.97	Vertical
6	16602.5	42.03	-35.49	39.50	-49.22	-25.00	24.22	Vertical



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Test Band = CA_38C ANT4

Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3929.5	47.40	-44.19	29.82	-62.23	-25.00	37.23	Horizontal
2	5533	45.56	-41.71	32.27	-59.14	-25.00	34.14	Horizontal
3	7768	44.91	-37.79	36.47	-51.67	-25.00	26.67	Horizontal
4	9906.5	42.28	-35.13	38.61	-49.50	-25.00	24.50	Horizontal
5	13556.5	43.11	-37.91	40.01	-50.05	-25.00	25.05	Horizontal
6	16394	42.10	-34.85	38.78	-49.23	-25.00	24.23	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3950.5	47.34	-44.18	29.90	-62.20	-25.00	37.20	Vertical
2	5686.5	46.33	-41.18	32.50	-57.61	-25.00	32.61	Vertical
3	8247	43.60	-37.07	36.49	-52.24	-25.00	27.24	Vertical
4	9889	42.43	-35.04	38.51	-49.36	-25.00	24.36	Vertical
5	13646	43.36	-37.92	40.15	-49.67	-25.00	24.67	Vertical
6	17988	41.33	-43.13	47.98	-49.08	-25.00	24.08	Vertical



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Test Band = CA_38C ANT4
Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3957.5	47.12	-44.18	29.89	-62.43	-25.00	37.43	Horizontal
2	6055	46.03	-40.86	33.49	-56.60	-25.00	31.60	Horizontal
3	8371.5	44.00	-36.99	36.39	-51.86	-25.00	26.86	Horizontal
4	9781.5	42.93	-35.84	38.43	-49.74	-25.00	24.74	Horizontal
5	15283.5	41.52	-36.05	39.87	-49.92	-25.00	24.92	Horizontal
6	17989.5	41.52	-43.12	48.01	-48.85	-25.00	23.85	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3898.5	47.40	-44.21	29.70	-62.37	-25.00	37.37	Vertical
2	5152	46.25	-42.54	31.80	-59.75	-25.00	34.75	Vertical
3	7414.5	44.17	-38.28	36.73	-52.64	-25.00	27.64	Vertical
4	9890.5	42.46	-35.03	38.52	-49.31	-25.00	24.31	Vertical
5	13572.5	43.25	-37.88	40.05	-49.84	-25.00	24.84	Vertical
6	17996.5	41.50	-43.07	48.14	-48.69	-25.00	23.69	Vertical



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Test Band = CA_38C ANT3
Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3940	47.29	-44.19	29.86	-62.30	-25.00	37.30	Horizontal
2	5532.5	46.37	-41.72	32.27	-58.34	-25.00	33.34	Horizontal
3	7483.5	44.40	-38.29	36.87	-52.28	-25.00	27.28	Horizontal
4	9884.5	42.25	-35.08	38.48	-49.61	-25.00	24.61	Horizontal
5	11082	43.41	-37.48	40.18	-49.15	-25.00	24.15	Horizontal
6	17992	41.35	-43.10	48.06	-48.95	-25.00	23.95	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3607	48.24	-44.36	28.96	-62.42	-25.00	37.42	Vertical
2	5882.5	45.53	-41.17	32.73	-58.17	-25.00	33.17	Vertical
3	8769	43.92	-36.41	36.69	-51.06	-25.00	26.06	Vertical
4	9894.5	42.95	-35.00	38.56	-48.75	-25.00	23.75	Vertical
5	13570.5	43.29	-37.88	40.04	-49.81	-25.00	24.81	Vertical
6	16492	42.81	-35.56	39.26	-48.75	-25.00	23.75	Vertical



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Test Band = CA_38C ANT3
Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3851	47.49	-44.56	29.70	-62.63	-25.00	37.63	Horizontal
2	5056	46.60	-42.61	31.59	-59.68	-25.00	34.68	Horizontal
3	7386	44.93	-38.36	36.64	-52.05	-25.00	27.05	Horizontal
4	9877.5	42.73	-35.13	38.42	-49.24	-25.00	24.24	Horizontal
5	13570.5	43.29	-37.88	40.04	-49.81	-25.00	24.81	Horizontal
6	17988.5	41.43	-43.13	47.99	-48.97	-25.00	23.97	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3967	47.50	-44.18	29.87	-62.07	-25.00	37.07	Vertical
2	5607.5	45.71	-41.42	32.59	-58.38	-25.00	33.38	Vertical
3	7480.5	44.17	-38.29	36.86	-52.52	-25.00	27.52	Vertical
4	9913	42.31	-35.30	38.61	-49.64	-25.00	24.64	Vertical
5	13565	43.12	-37.89	40.03	-50.00	-25.00	25.00	Vertical
6	17992.5	41.73	-43.10	48.07	-48.56	-25.00	23.56	Vertical



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SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd.
Wireless Laboratory

V/F Unit D, Building 1, Kanghong Orange Science Park, No.137, Keyuan 3rd Road, Fengdong New Town, Xi'an, Shaanxi, China 710086
中国·西安·沣东新城科源三路137号康鸿橙方科技园1号楼D单元1层 邮编: 710086

t (86-29) 6282 7885 www.sgsgroup.com.cn
t (86-29) 6282 7885 sgs.china@sgs.com

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Test Band = CA_38C ANT3
Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3921	47.55	-44.19	29.78	-62.12	-25.00	37.12	Horizontal
2	5397	45.73	-42.00	32.48	-59.05	-25.00	34.05	Horizontal
3	7424.5	44.31	-38.28	36.75	-52.48	-25.00	27.48	Horizontal
4	9924	43.09	-35.59	38.62	-49.14	-25.00	24.14	Horizontal
5	13562.5	43.14	-37.90	40.03	-49.99	-25.00	24.99	Horizontal
6	17995.5	41.76	-43.08	48.12	-48.46	-25.00	23.46	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3955.5	47.31	-44.18	29.89	-62.24	-25.00	37.24	Vertical
2	5729.5	45.98	-41.23	32.50	-58.01	-25.00	33.01	Vertical
3	7751	43.98	-37.73	36.40	-52.61	-25.00	27.61	Vertical
4	9561.5	43.83	-35.78	37.80	-49.41	-25.00	24.41	Vertical
5	13553	43.33	-37.91	40.01	-49.83	-25.00	24.83	Vertical
6	17972.5	42.24	-43.26	47.71	-48.57	-25.00	23.57	Vertical



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SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd.
 Wireless Laboratory

11/F, Unit D, Building 1, Kanghong Orange Science Park, No.137, Keyuan 3rd Road, Fengdong New Town, Xi'an, Shaanxi, China 710086
 中国·西安·沣东新城科源三路137号康鸿橙方科技园1号楼D单元1层 邮编: 710086

t (86-29) 6282 7885 www.sgsgroup.com.cn
 t (86-29) 6282 7885 sgs.china@sgs.com



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Test Band = CA_38C ANT5

Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3910.5	47.57	-44.20	29.74	-62.15	-25.00	37.15	Horizontal
2	6154.5	45.35	-40.68	33.32	-57.27	-25.00	32.27	Horizontal
3	7725.5	43.97	-37.65	36.60	-52.34	-25.00	27.34	Horizontal
4	9885.5	42.22	-35.07	38.48	-49.63	-25.00	24.63	Horizontal
5	13543.5	43.24	-37.92	39.99	-49.95	-25.00	24.95	Horizontal
6	17996.5	41.31	-43.07	48.14	-48.88	-25.00	23.88	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3949.5	47.23	-44.19	29.90	-62.32	-25.00	37.32	Vertical
2	6045	45.90	-40.93	33.45	-56.84	-25.00	31.84	Vertical
3	7918	43.59	-37.44	36.46	-52.65	-25.00	27.65	Vertical
4	9874	42.87	-35.16	38.39	-49.16	-25.00	24.16	Vertical
5	13566.5	43.24	-37.89	40.03	-49.88	-25.00	24.88	Vertical
6	17993.5	41.60	-43.09	48.08	-48.67	-25.00	23.67	Vertical



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1/F, Unit D, Building 1, Kanghong Orange Science Park, No.137, Keyuan 3rd Road, Fengdong New Town, Xi'an, Shaanxi, China 710086
中国·西安·沣东新城科源三路137号康鸿橙方科技园1号楼D单元1层 邮编: 710086

t (86-29) 6282 7885 www.sgsgroup.com.cn
t (86-29) 6282 7885 sgs.china@sgs.com



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Test Band = CA_38C ANT5

Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4336.5	46.49	-43.41	29.79	-62.39	-25.00	37.39	Horizontal
2	5861	45.52	-41.23	32.64	-58.33	-25.00	33.33	Horizontal
3	8237.5	43.53	-37.09	36.45	-52.37	-25.00	27.37	Horizontal
4	9909.5	42.22	-35.21	38.61	-49.64	-25.00	24.64	Horizontal
5	13640.5	42.85	-37.91	40.14	-50.18	-25.00	25.18	Horizontal
6	17991.5	41.53	-43.11	48.05	-48.79	-25.00	23.79	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3929	47.23	-44.19	29.82	-62.40	-25.00	37.40	Vertical
2	5210	46.12	-42.53	31.84	-59.83	-25.00	34.83	Vertical
3	7057	44.39	-39.36	36.16	-54.07	-25.00	29.07	Vertical
4	9906.5	42.43	-35.13	38.61	-49.35	-25.00	24.35	Vertical
5	10970.5	42.90	-37.11	40.13	-49.34	-25.00	24.34	Vertical
6	17995.5	41.23	-43.08	48.12	-48.99	-25.00	23.99	Vertical



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中国·西安·沣东新城科源三路137号康鸿橙方科技园1号楼D单元1层 邮编: 710086

t (86-29) 6282 7885 www.sgs.com.cn
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Test Band = CA_38C ANT5
Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3953.5	47.10	-44.18	29.89	-62.45	-25.00	37.45	Horizontal
2	5736	45.63	-41.24	32.50	-58.37	-25.00	33.37	Horizontal
3	8334.5	44.00	-36.99	36.33	-51.92	-25.00	26.92	Horizontal
4	9911	42.21	-35.25	38.61	-49.69	-25.00	24.69	Horizontal
5	13560	43.11	-37.90	40.02	-50.03	-25.00	25.03	Horizontal
6	17997.5	41.02	-43.06	48.16	-49.14	-25.00	24.14	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3971	47.28	-44.18	29.86	-62.30	-25.00	37.30	Vertical
2	4780.5	46.44	-42.94	30.68	-61.08	-25.00	36.08	Vertical
3	6728.5	44.83	-39.55	35.16	-54.82	-25.00	29.82	Vertical
4	7914.5	43.72	-37.45	36.47	-52.52	-25.00	27.52	Vertical
5	10965	43.03	-37.14	40.14	-49.23	-25.00	24.23	Vertical
6	16597	42.23	-35.35	39.49	-48.89	-25.00	23.89	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

Voltage									
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	-2.37	-0.012853	PASS
38-38	20MHz -20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	VL	NT	-2.24	-0.013617	PASS
38-38	20MHz -20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	VN	NT	1.48	-0.022451	PASS

Temperature									
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	-2.17	-0.001472	PASS
38-38	20MHz -20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	-20	-3.22	-0.002474	PASS
38-38	20MHz -20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	-10	-3.67	-0.002643	PASS
38-38	20MHz -20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	0	-4.15	-0.014230	PASS
38-38	20MHz -20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	10	2.32	0.002731	PASS
38-38	20MHz -20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	20	4.34	0.004133	PASS
38-38	20MHz -20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	30	1.43	-0.006140	PASS
38-38	20MHz -20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	40	-2.14	-0.005411	PASS
38-38	20MHz -20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	50	5.34	0.007524	PASS

---End of Attachment---



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 中国·西安·沣东新城科源三路137号康鸿橙方科技园1号楼D单元1层 邮编: 710086
 t (86-29) 6282 7885 www.sgs.com.cn
 t (86-29) 6282 7885 sgs.china@sgs.com