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Appendix B.4

LTE Band 7



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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
Band7	5MHz	QPSK	20775	1RB#0	22.87	25.87	33	PASS
Band7	5MHz	QPSK	20775	1RB#12	22.87	25.87	33	PASS
Band7	5MHz	QPSK	20775	1RB#24	22.8	25.8	33	PASS
Band7	5MHz	QPSK	20775	25RB#0	21.84	24.84	33	PASS
Band7	5MHz	QPSK	21100	1RB#0	22.87	25.87	33	PASS
Band7	5MHz	QPSK	21100	1RB#12	22.91	25.91	33	PASS
Band7	5MHz	QPSK	21100	1RB#24	22.89	25.89	33	PASS
Band7	5MHz	QPSK	21100	25RB#0	21.95	24.95	33	PASS
Band7	5MHz	QPSK	21425	1RB#0	22.99	25.99	33	PASS
Band7	5MHz	QPSK	21425	1RB#12	23	26	33	PASS
Band7	5MHz	QPSK	21425	1RB#24	23.01	26.01	33	PASS
Band7	5MHz	QPSK	21425	25RB#0	22.04	25.04	33	PASS
Band7	5MHz	16QAM	20775	1RB#0	22.16	25.16	33	PASS
Band7	5MHz	16QAM	20775	1RB#12	22.22	25.22	33	PASS
Band7	5MHz	16QAM	20775	1RB#24	22.1	25.1	33	PASS
Band7	5MHz	16QAM	20775	25RB#0	20.85	23.85	33	PASS
Band7	5MHz	16QAM	21100	1RB#0	22.11	25.11	33	PASS
Band7	5MHz	16QAM	21100	1RB#12	22.07	25.07	33	PASS
Band7	5MHz	16QAM	21100	1RB#24	22.12	25.12	33	PASS
Band7	5MHz	16QAM	21100	25RB#0	20.98	23.98	33	PASS
Band7	5MHz	16QAM	21425	1RB#0	22.27	25.27	33	PASS
Band7	5MHz	16QAM	21425	1RB#12	22.3	25.3	33	PASS
Band7	5MHz	16QAM	21425	1RB#24	22.26	25.26	33	PASS
Band7	5MHz	16QAM	21425	25RB#0	21.09	24.09	33	PASS
Band7	10MHz	QPSK	20800	1RB#0	22.75	25.75	33	PASS
Band7	10MHz	QPSK	20800	1RB#24	22.8	25.8	33	PASS
Band7	10MHz	QPSK	20800	1RB#49	22.85	25.85	33	PASS
Band7	10MHz	QPSK	20800	50RB#0	21.88	24.88	33	PASS
Band7	10MHz	QPSK	21100	1RB#0	22.86	25.86	33	PASS
Band7	10MHz	QPSK	21100	1RB#24	22.88	25.88	33	PASS
Band7	10MHz	QPSK	21100	1RB#49	22.9	25.9	33	PASS



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Band7	10MHz	QPSK	21100	50RB#0	21.96	24.96	33	PASS
Band7	10MHz	QPSK	21400	1RB#0	22.99	25.99	33	PASS
Band7	10MHz	QPSK	21400	1RB#24	22.98	25.98	33	PASS
Band7	10MHz	QPSK	21400	1RB#49	23.05	26.05	33	PASS
Band7	10MHz	QPSK	21400	50RB#0	22.09	25.09	33	PASS
Band7	10MHz	16QAM	20800	1RB#0	22.07	25.07	33	PASS
Band7	10MHz	16QAM	20800	1RB#24	22.05	25.05	33	PASS
Band7	10MHz	16QAM	20800	1RB#49	22.02	25.02	33	PASS
Band7	10MHz	16QAM	20800	50RB#0	20.87	23.87	33	PASS
Band7	10MHz	16QAM	21100	1RB#0	22.17	25.17	33	PASS
Band7	10MHz	16QAM	21100	1RB#24	22.2	25.2	33	PASS
Band7	10MHz	16QAM	21100	1RB#49	22.1	25.1	33	PASS
Band7	10MHz	16QAM	21100	50RB#0	21.01	24.01	33	PASS
Band7	10MHz	16QAM	21400	1RB#0	22.22	25.22	33	PASS
Band7	10MHz	16QAM	21400	1RB#24	22.35	25.35	33	PASS
Band7	10MHz	16QAM	21400	1RB#49	22.34	25.34	33	PASS
Band7	10MHz	16QAM	21400	50RB#0	21.08	24.08	33	PASS
Band7	15MHz	QPSK	20825	1RB#0	22.79	25.79	33	PASS
Band7	15MHz	QPSK	20825	1RB#38	22.81	25.81	33	PASS
Band7	15MHz	QPSK	20825	1RB#74	22.9	25.9	33	PASS
Band7	15MHz	QPSK	20825	75RB#0	21.91	24.91	33	PASS
Band7	15MHz	QPSK	21100	1RB#0	22.88	25.88	33	PASS
Band7	15MHz	QPSK	21100	1RB#38	22.85	25.85	33	PASS
Band7	15MHz	QPSK	21100	1RB#74	22.93	25.93	33	PASS
Band7	15MHz	QPSK	21100	75RB#0	21.97	24.97	33	PASS
Band7	15MHz	QPSK	21375	1RB#0	23.06	26.06	33	PASS
Band7	15MHz	QPSK	21375	1RB#38	23.03	26.03	33	PASS
Band7	15MHz	QPSK	21375	1RB#74	23.07	26.07	33	PASS
Band7	15MHz	QPSK	21375	75RB#0	22.07	25.07	33	PASS
Band7	15MHz	16QAM	20825	1RB#0	22.03	25.03	33	PASS
Band7	15MHz	16QAM	20825	1RB#38	22.2	25.2	33	PASS
Band7	15MHz	16QAM	20825	1RB#74	22.29	25.29	33	PASS
Band7	15MHz	16QAM	20825	75RB#0	20.9	23.9	33	PASS
Band7	15MHz	16QAM	21100	1RB#0	22.13	25.13	33	PASS
Band7	15MHz	16QAM	21100	1RB#38	22.19	25.19	33	PASS
Band7	15MHz	16QAM	21100	1RB#74	22.23	25.23	33	PASS
Band7	15MHz	16QAM	21100	75RB#0	21.01	24.01	33	PASS



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Band7	15MHz	16QAM	21375	1RB#0	22.22	25.22	33	PASS
Band7	15MHz	16QAM	21375	1RB#38	22.25	25.25	33	PASS
Band7	15MHz	16QAM	21375	1RB#74	22.34	25.34	33	PASS
Band7	15MHz	16QAM	21375	75RB#0	21.08	24.08	33	PASS
Band7	20MHz	QPSK	20850	1RB#0	22.8	25.8	33	PASS
Band7	20MHz	QPSK	20850	1RB#49	22.88	25.88	33	PASS
Band7	20MHz	QPSK	20850	1RB#99	22.89	25.89	33	PASS
Band7	20MHz	QPSK	20850	100RB#0	21.91	24.91	33	PASS
Band7	20MHz	QPSK	21100	1RB#0	22.84	25.84	33	PASS
Band7	20MHz	QPSK	21100	1RB#49	22.85	25.85	33	PASS
Band7	20MHz	QPSK	21100	1RB#99	22.84	25.84	33	PASS
Band7	20MHz	QPSK	21100	100RB#0	21.94	24.94	33	PASS
Band7	20MHz	QPSK	21350	1RB#0	23.05	26.05	33	PASS
Band7	20MHz	QPSK	21350	1RB#49	23.01	26.01	33	PASS
Band7	20MHz	QPSK	21350	1RB#99	22.99	25.99	33	PASS
Band7	20MHz	QPSK	21350	100RB#0	22.08	25.08	33	PASS
Band7	20MHz	16QAM	20850	1RB#0	22.08	25.08	33	PASS
Band7	20MHz	16QAM	20850	1RB#49	22.2	25.2	33	PASS
Band7	20MHz	16QAM	20850	1RB#99	22.15	25.15	33	PASS
Band7	20MHz	16QAM	20850	100RB#0	20.88	23.88	33	PASS
Band7	20MHz	16QAM	21100	1RB#0	22.16	25.16	33	PASS
Band7	20MHz	16QAM	21100	1RB#49	22.12	25.12	33	PASS
Band7	20MHz	16QAM	21100	1RB#99	22.17	25.17	33	PASS
Band7	20MHz	16QAM	21100	100RB#0	20.97	23.97	33	PASS
Band7	20MHz	16QAM	21350	1RB#0	22.34	25.34	33	PASS
Band7	20MHz	16QAM	21350	1RB#49	22.22	25.22	33	PASS
Band7	20MHz	16QAM	21350	1RB#99	22.23	25.23	33	PASS
Band7	20MHz	16QAM	21350	100RB#0	21.1	24.1	33	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band7	20MHz	QPSK	20850	100RB#0	5.44	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	5.14	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	5.40	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	6.30	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	6.02	13	PASS
Band7	20MHz	16QAM	21350	100RB#0	6.34	13	PASS



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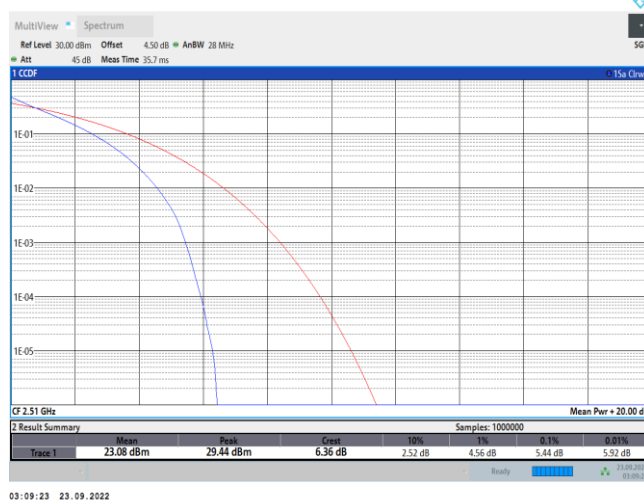
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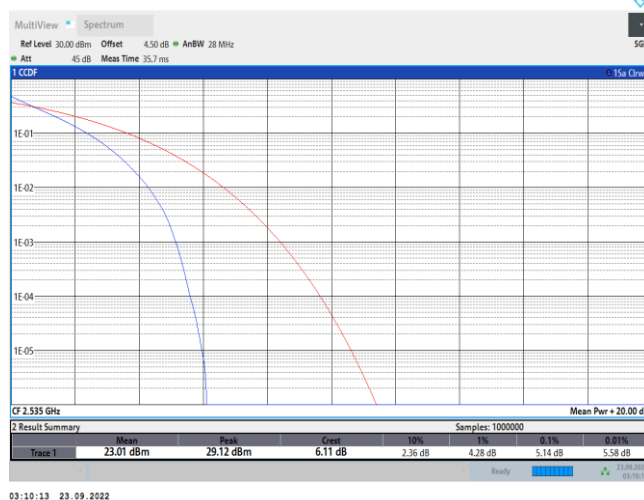
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Test Graphs

Band7-20MHz-QPSK-20850-100RB#0



Band7-20MHz-QPSK-21100-100RB#0



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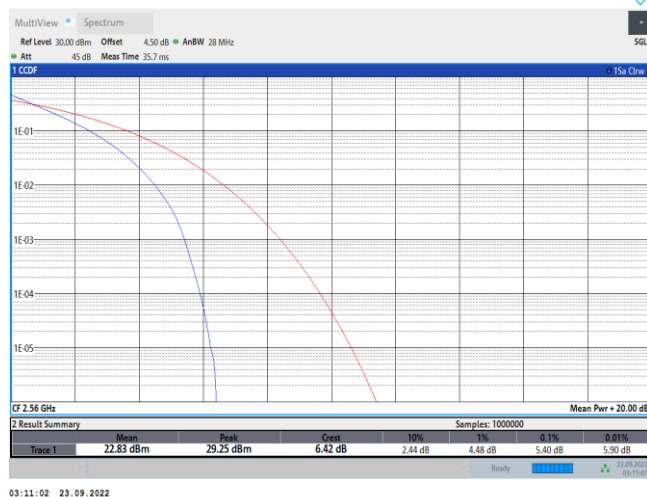
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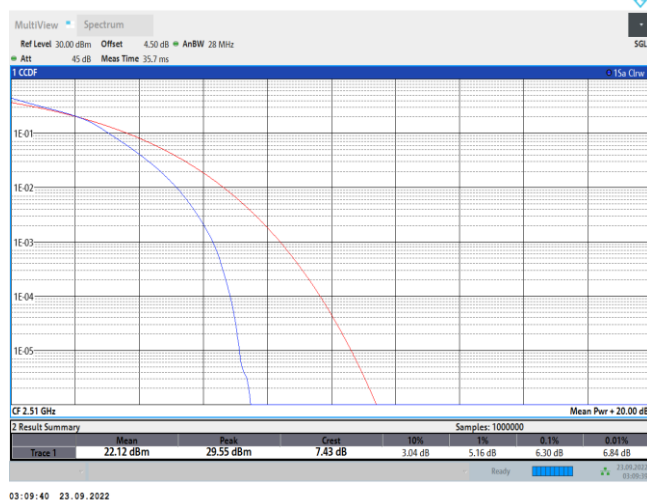
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Band7-20MHz-QPSK-21350-100RB#0



Band7-20MHz-16QAM-20850-100RB#0



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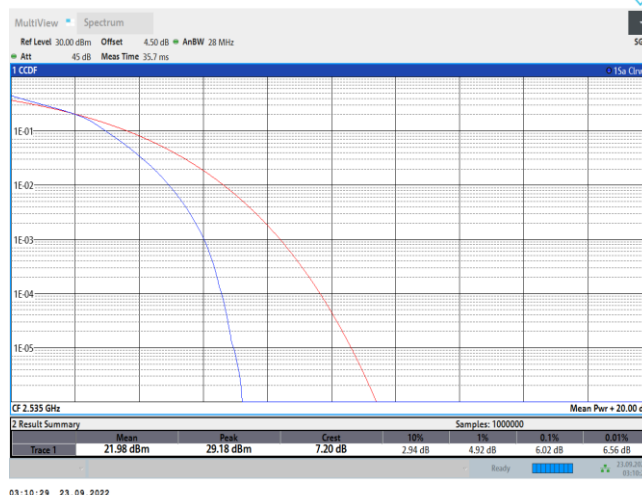
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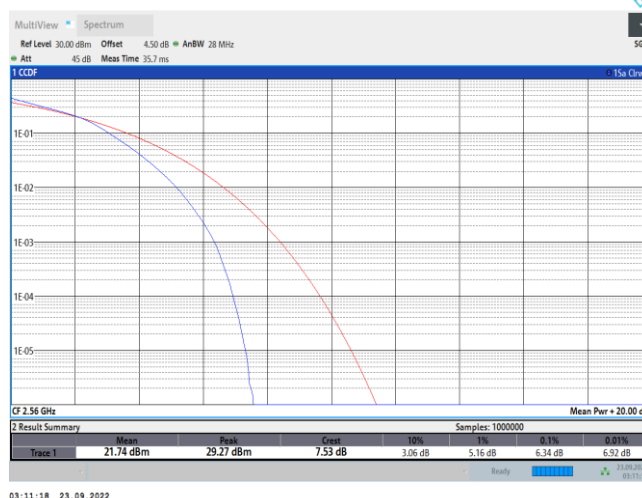
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Band7-20MHz-16QAM-21100-100RB#0



Band7-20MHz-16QAM-21350-100RB#0



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Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band7	20MHz	QPSK	21100	100RB#0	PASS	PASS
Band7	20MHz	16QAM	21100	100RB#0	PASS	PASS



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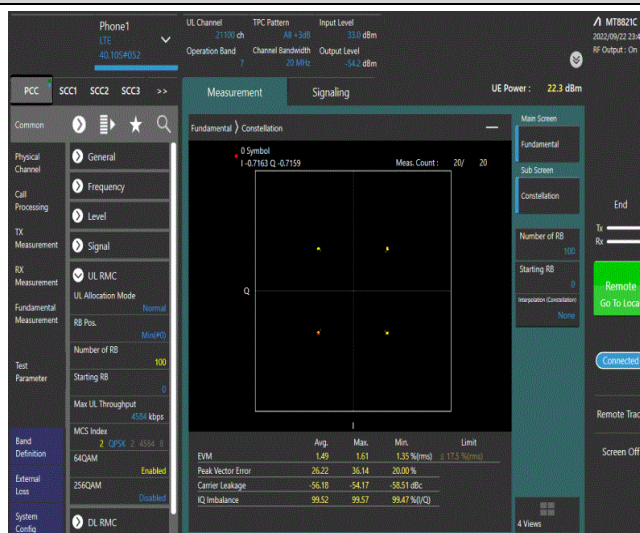
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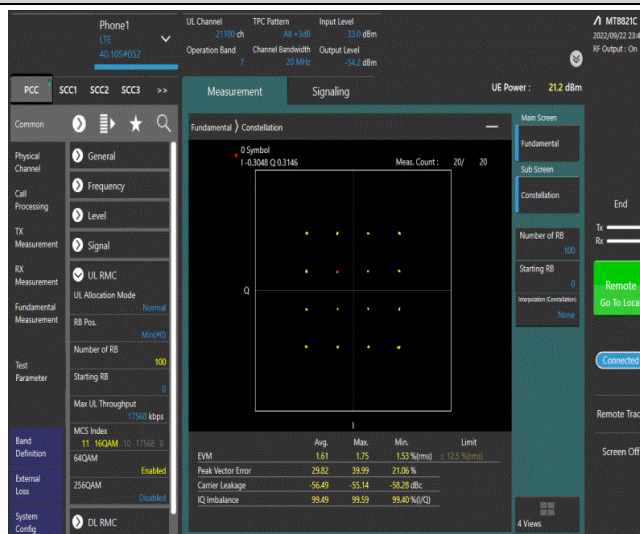
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Test Graphs

Band7-20MHz-QPSK-21100-100RB#0



Band7-20MHz-16QAM-21100-100RB#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
Band7	5MHz	QPSK	20775	25RB#0	4.471	4.88	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.472	4.90	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.47	4.89	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.471	4.94	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.474	4.93	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.469	4.92	PASS
Band7	10MHz	QPSK	20800	50RB#0	8.928	9.70	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.927	9.66	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.924	9.68	PASS
Band7	10MHz	16QAM	20800	50RB#0	8.912	9.62	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.915	9.64	PASS
Band7	10MHz	16QAM	21400	50RB#0	8.913	9.64	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.467	14.73	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.459	14.70	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.446	14.73	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.437	14.79	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.44	14.70	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.431	14.82	PASS
Band7	20MHz	QPSK	20850	100RB#0	17.896	19.48	PASS
Band7	20MHz	QPSK	21100	100RB#0	17.897	19.28	PASS
Band7	20MHz	QPSK	21350	100RB#0	17.91	19.48	PASS
Band7	20MHz	16QAM	20850	100RB#0	17.884	19.40	PASS
Band7	20MHz	16QAM	21100	100RB#0	17.864	19.40	PASS
Band7	20MHz	16QAM	21350	100RB#0	17.878	19.32	PASS



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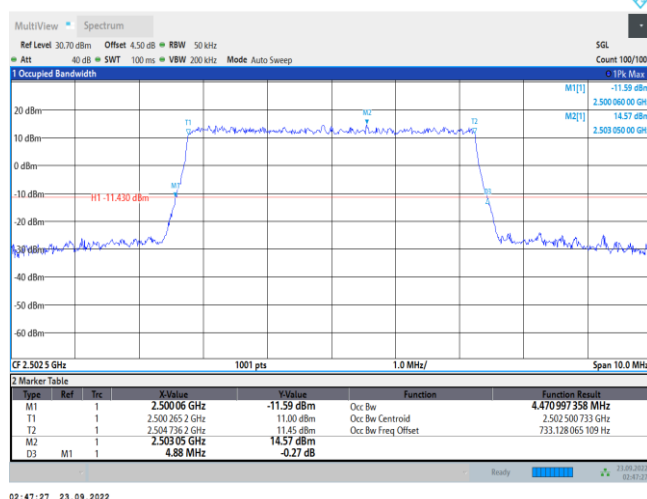
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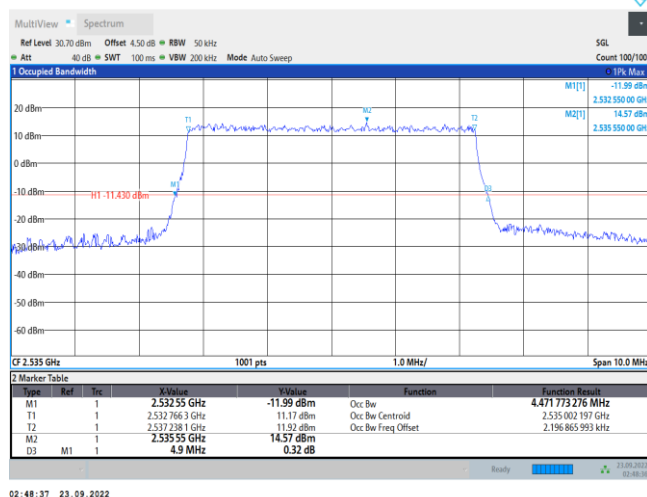
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Test Graphs

Band7-5MHz-QPSK-20775-25RB#0



Band7-5MHz-QPSK-21100-25RB#0



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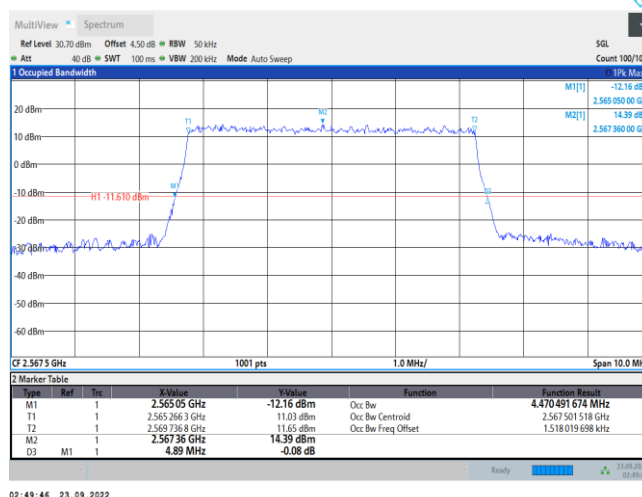
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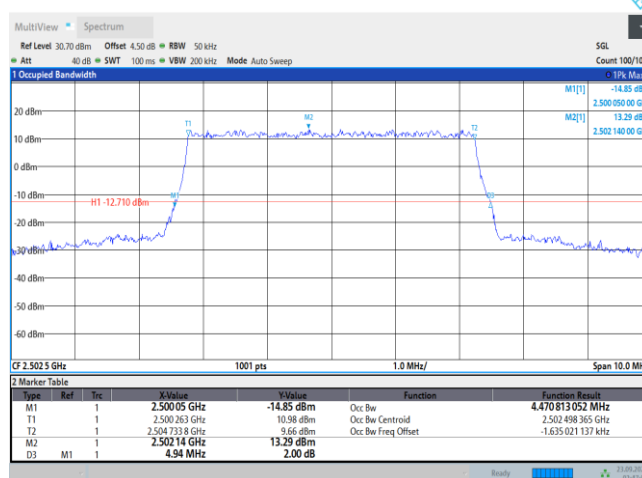
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Band7-5MHz-16QAM-20775-25RB#0



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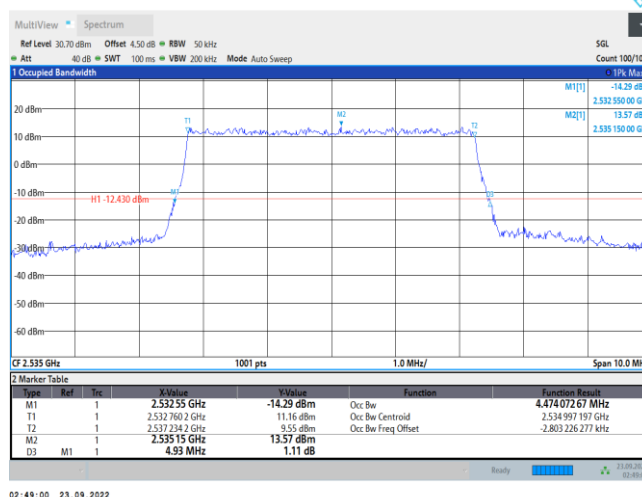
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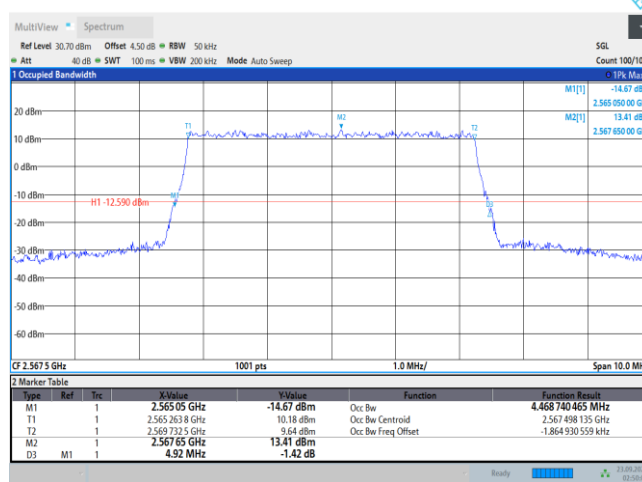
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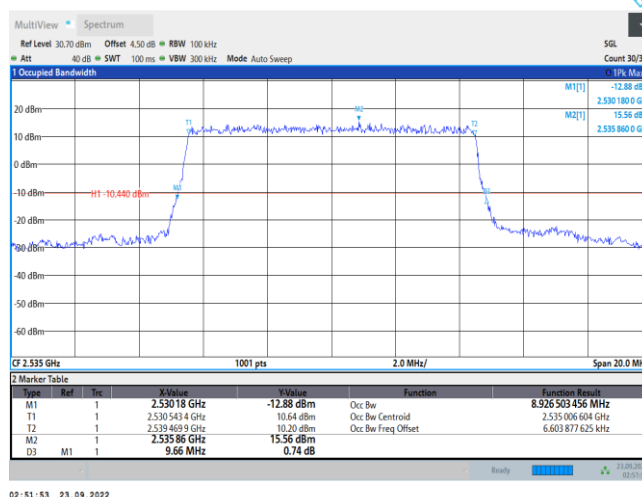
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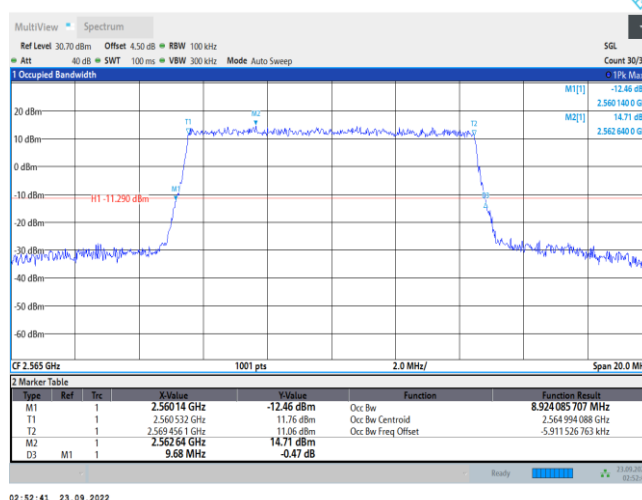
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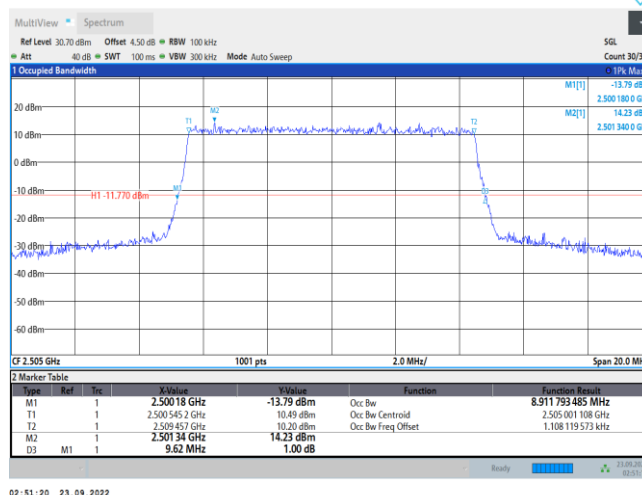
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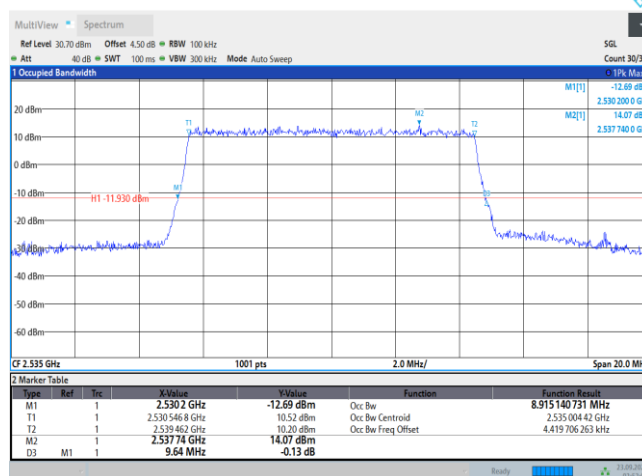
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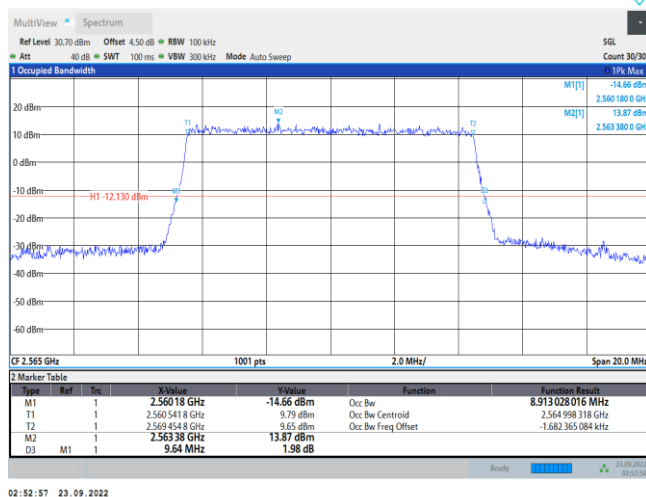
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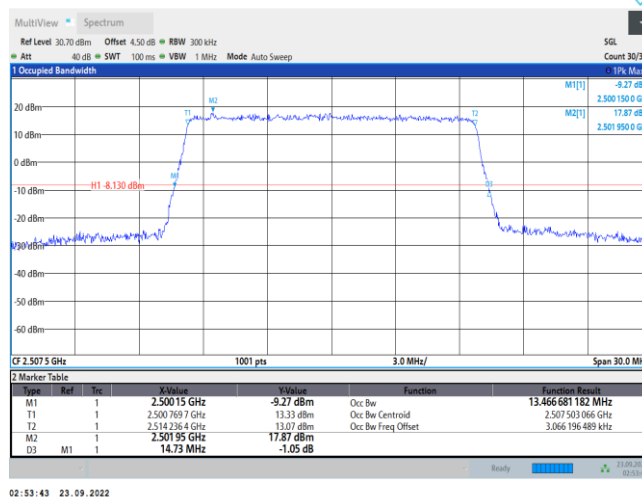
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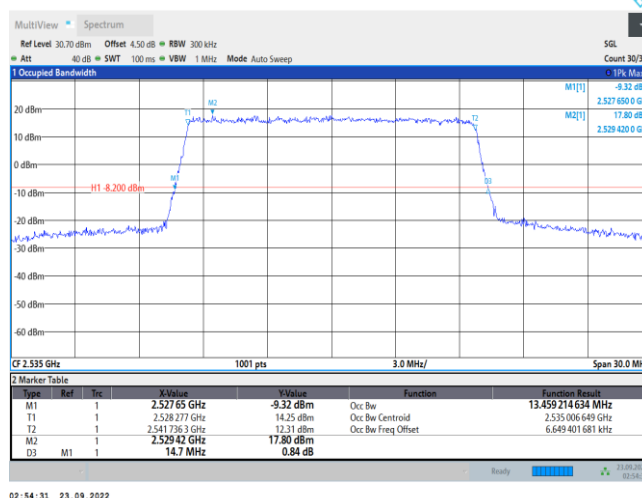
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Band7-15MHz-QPSK-20825-75RB#0



Band7-15MHz-QPSK-21100-75RB#0

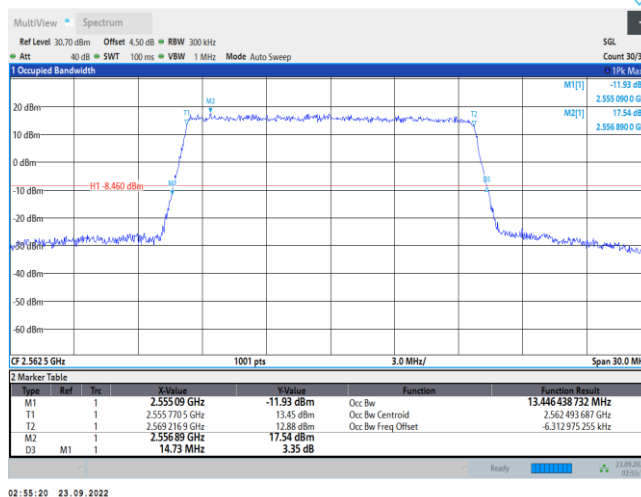


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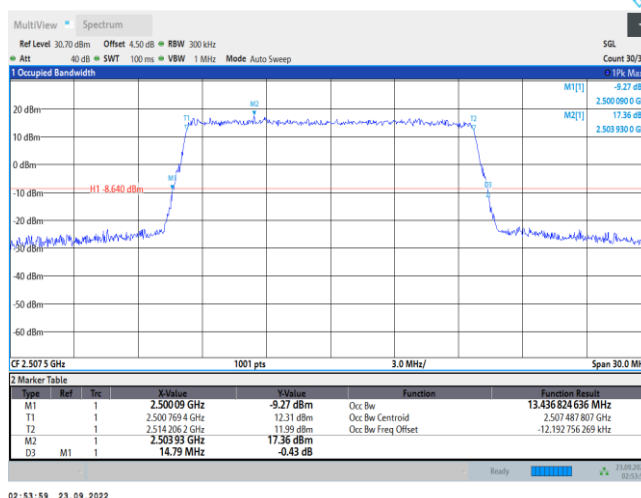
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Band7-15MHz-QPSK-21375-75RB#0



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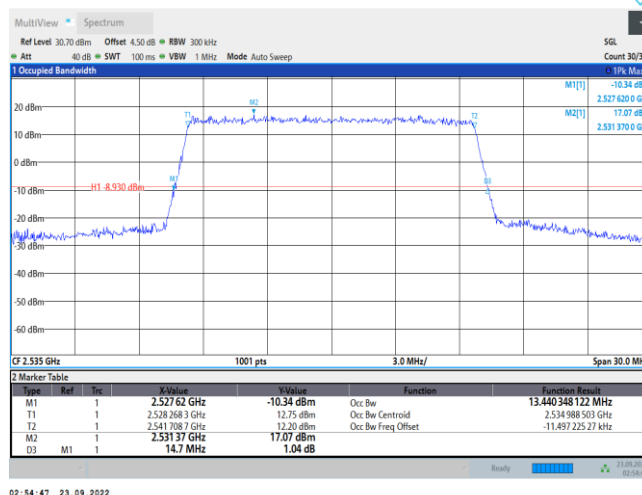


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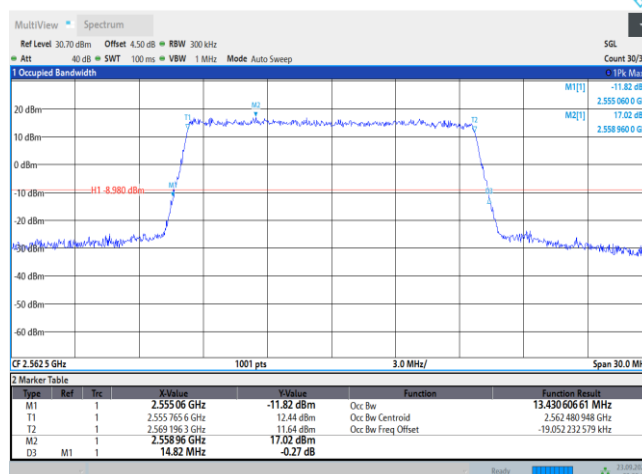
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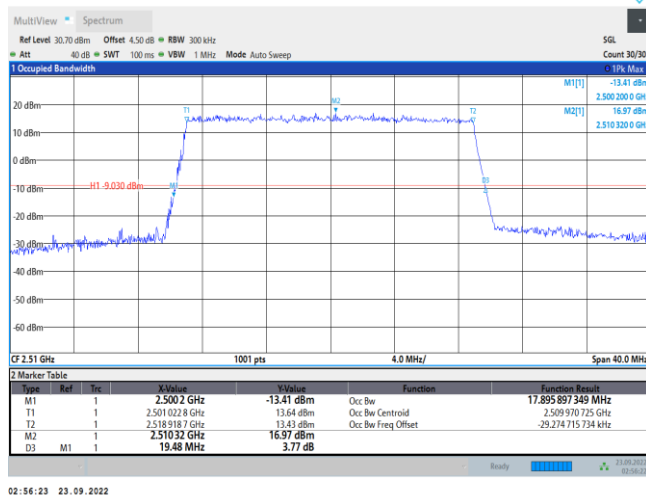
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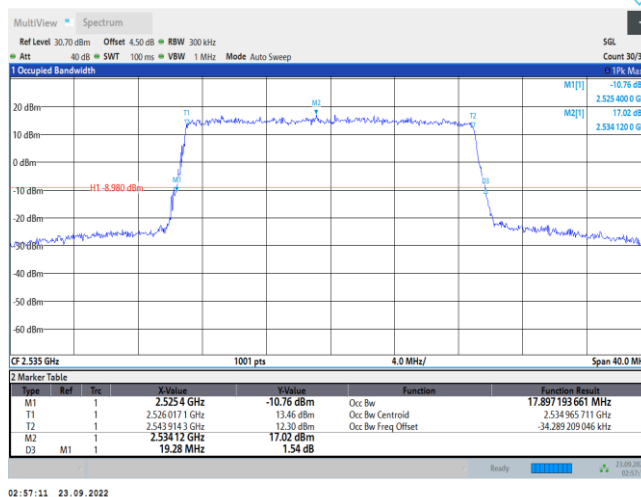
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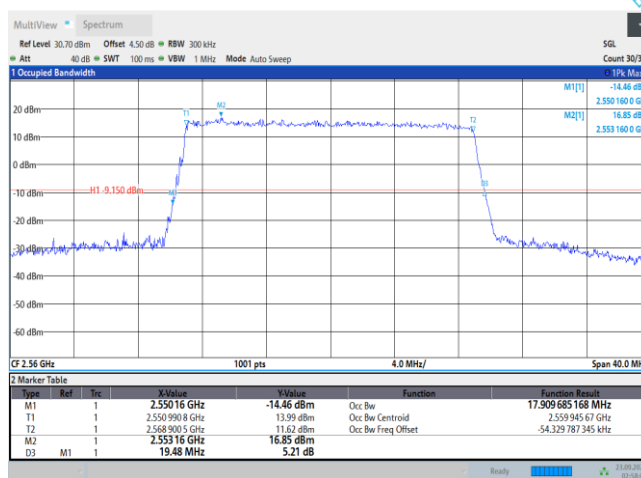
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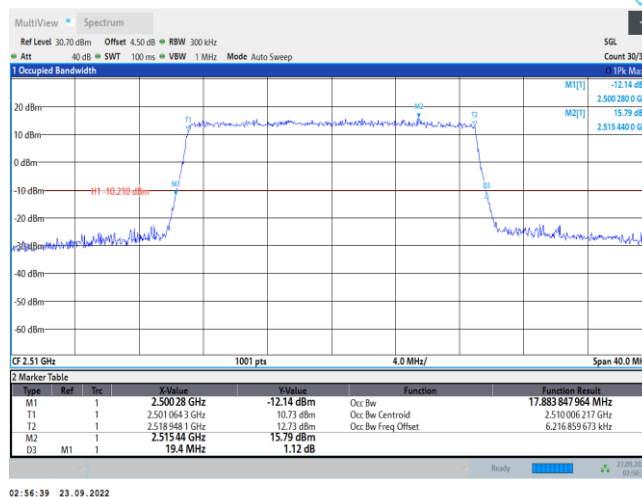
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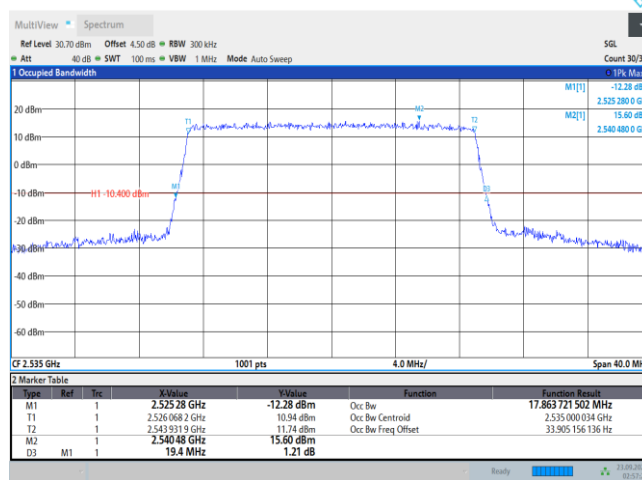
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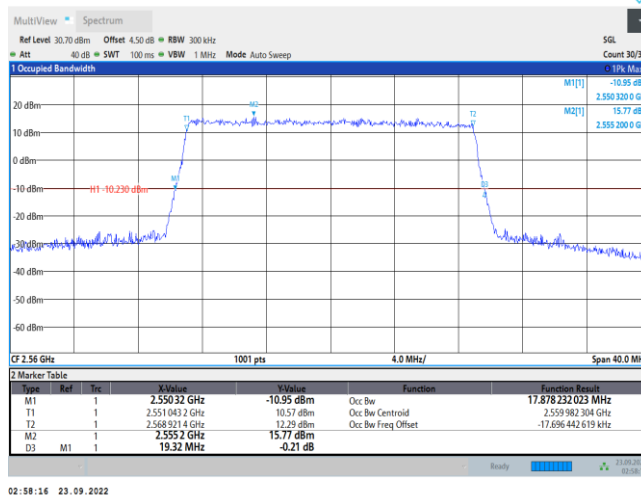
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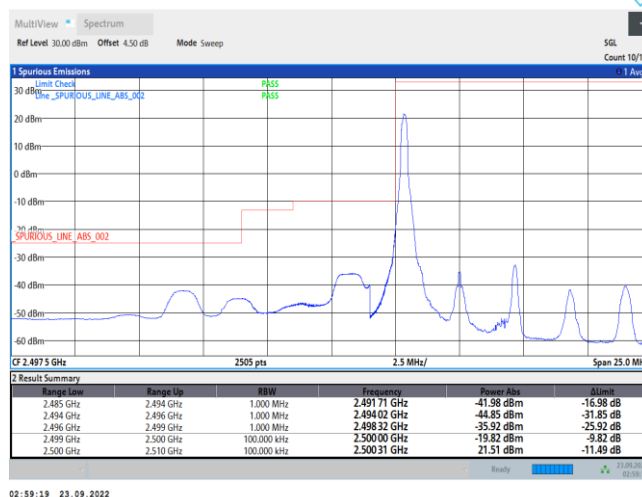
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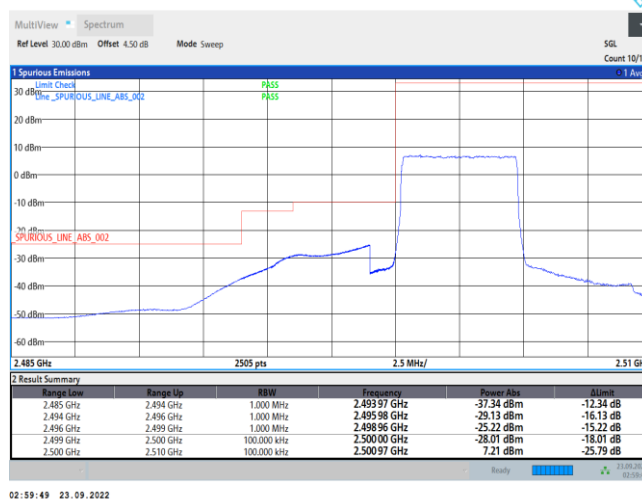
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Test Graphs

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Band7-5MHz-QPSK-20775-25RB#0



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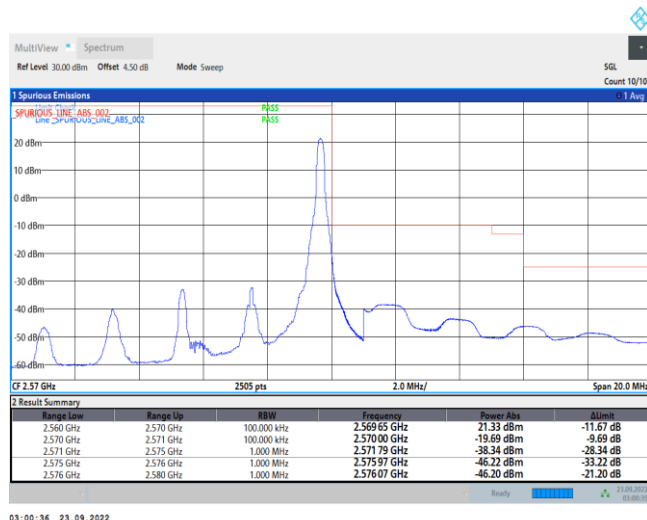
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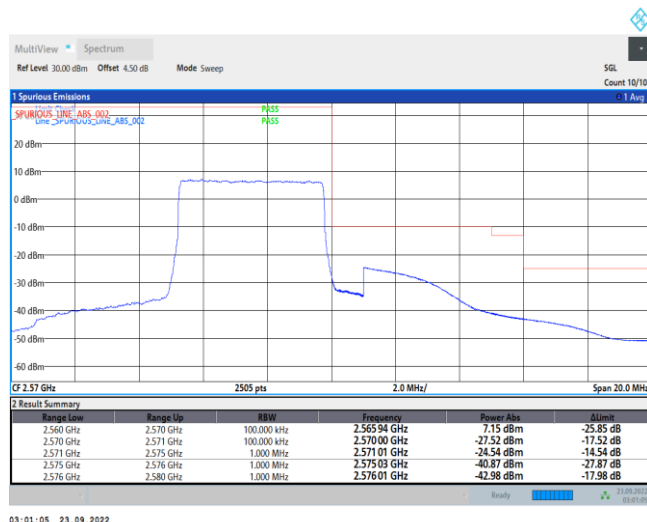
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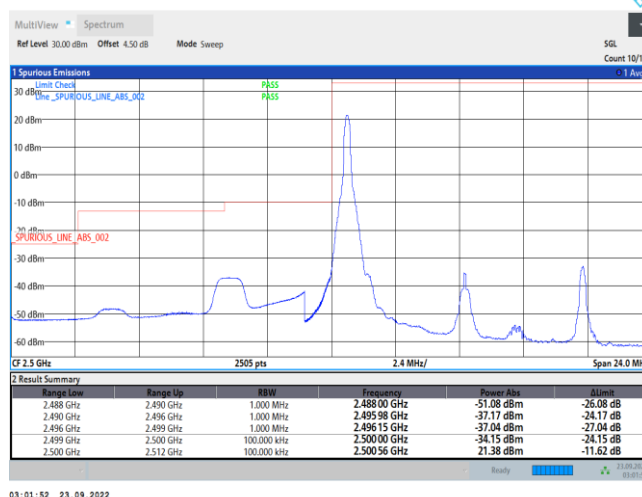
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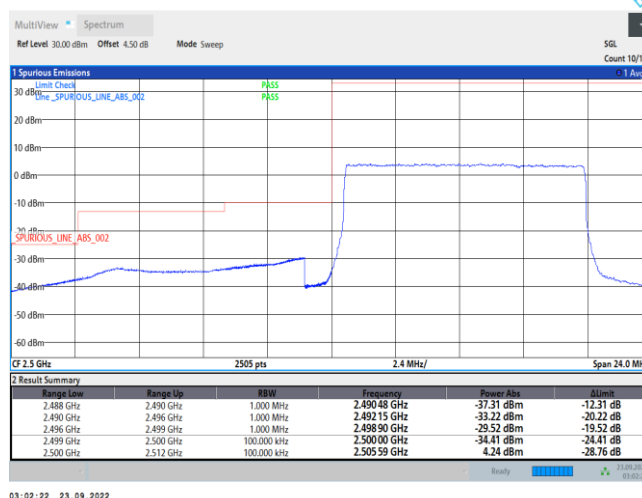
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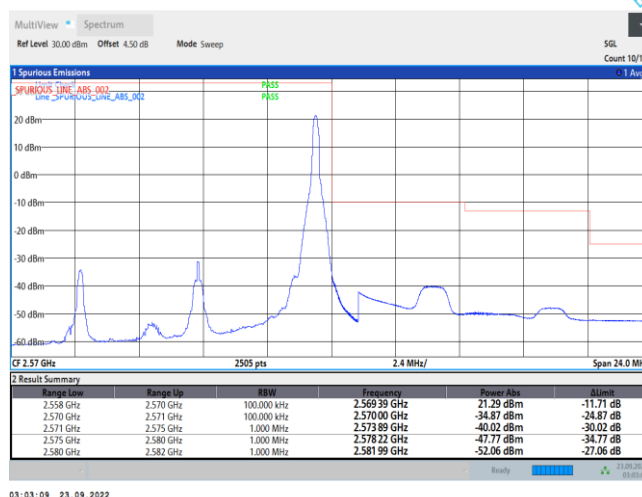
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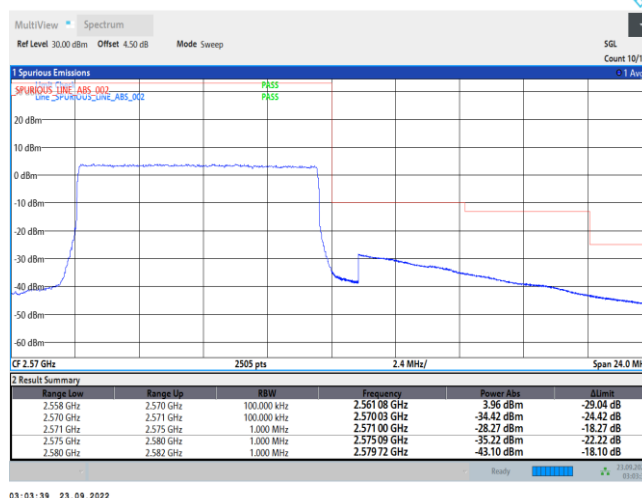
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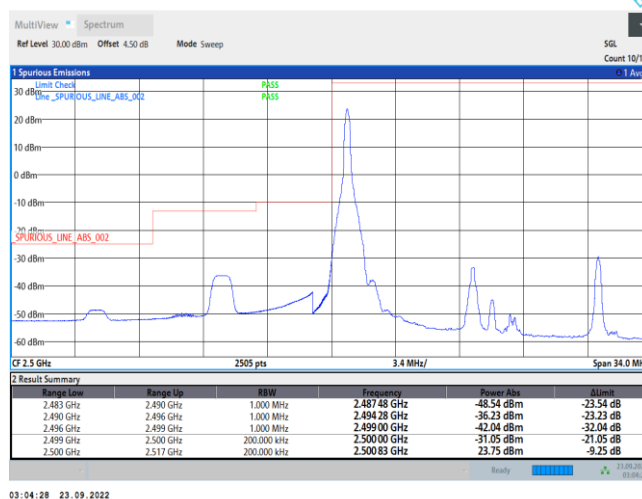
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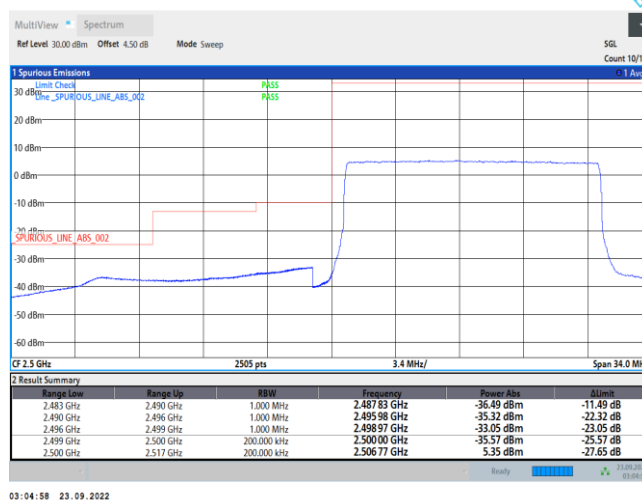
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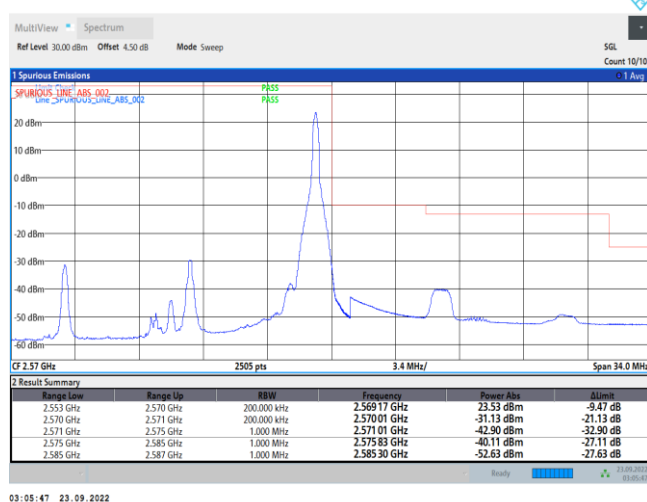
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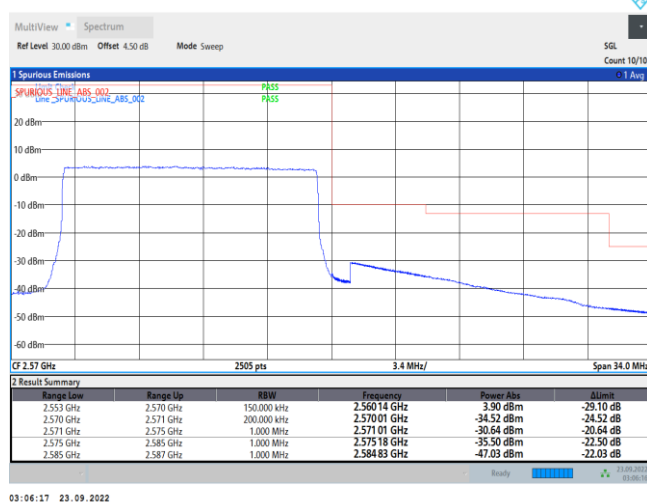
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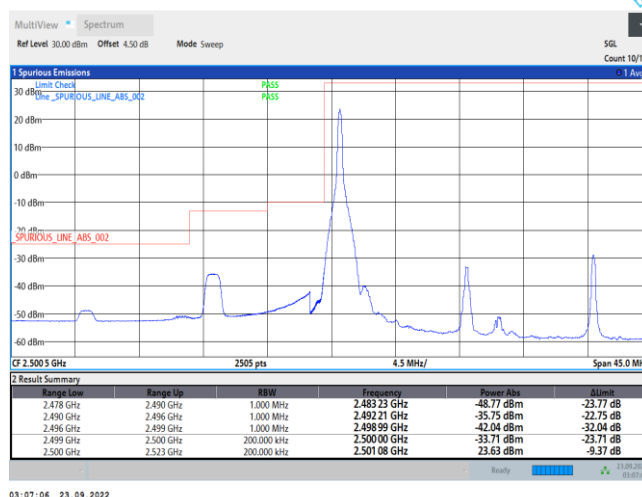
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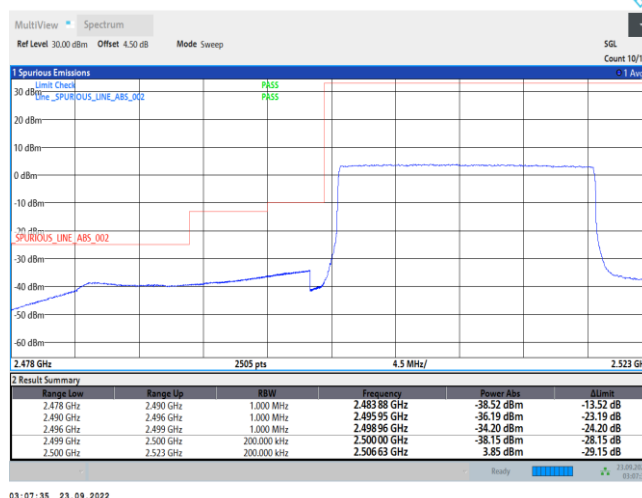
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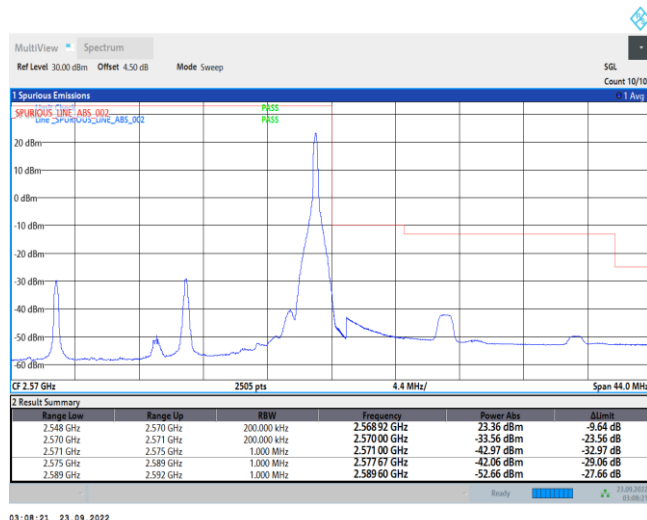
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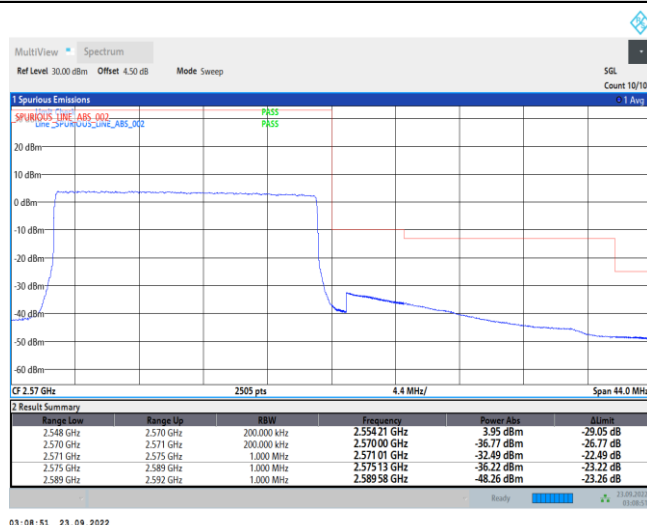
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Band7-20MHz-QPSK-21350-1RB#99



Band7-20MHz-QPSK-21350-100RB#0



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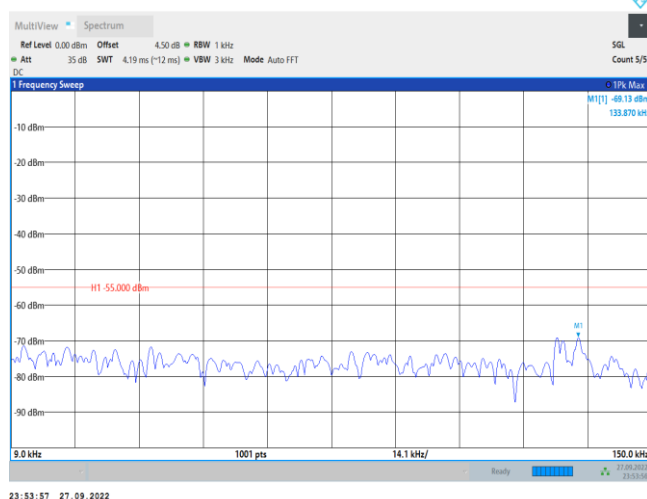
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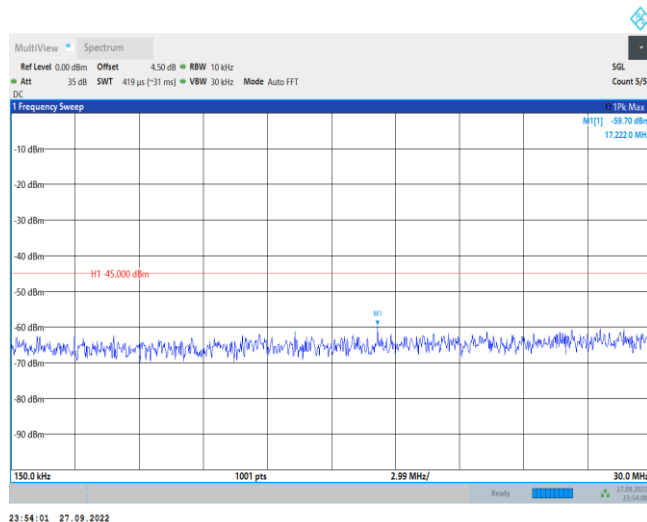
Conducted Spurious Emission

Test Graphs

Band7-20MHz-QPSK-20850-1RB#0-Range1:0.009~0.15MHz



Band7-20MHz-QPSK-20850-1RB#0-Range2:0.15~30MHz



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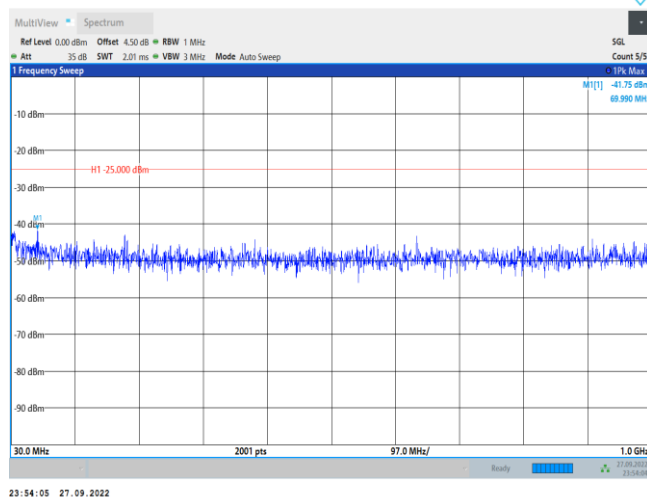
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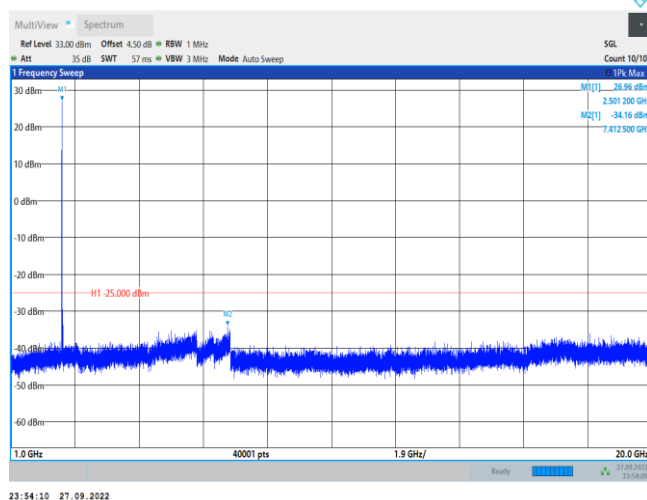
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Band7-20MHz-QPSK-20850-1RB#0-Range3:30~1000MHz



Band7-20MHz-QPSK-20850-1RB#0-Range4:1000~20000MHz



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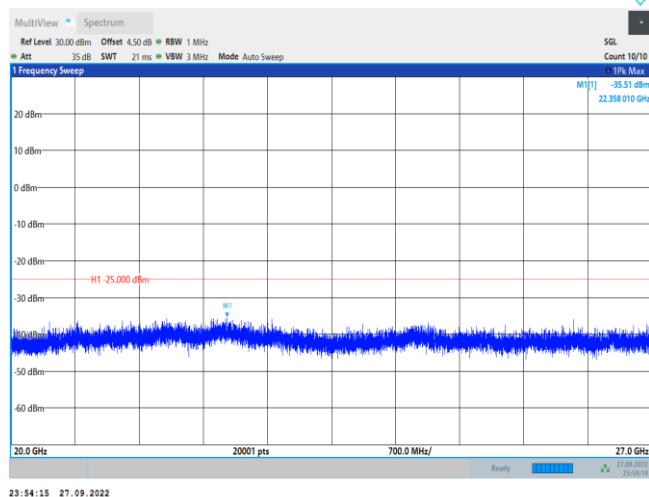
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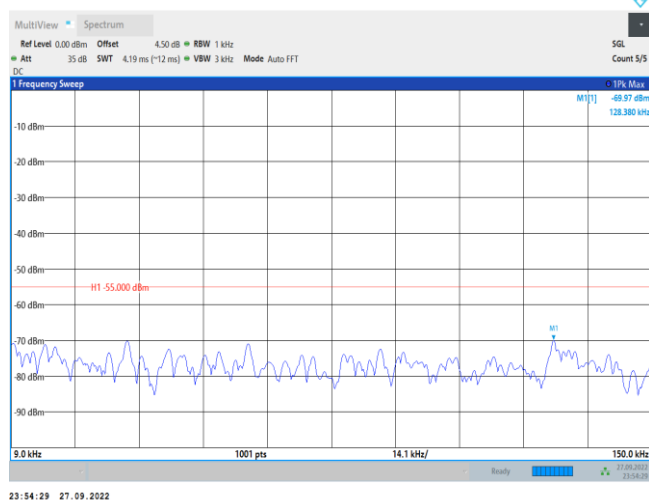
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Band7-20MHz-QPSK-20850-1RB#0-Range5:20000~27000MHz



Band7-20MHz-QPSK-21100-1RB#0-Range1:0.009~0.15MHz



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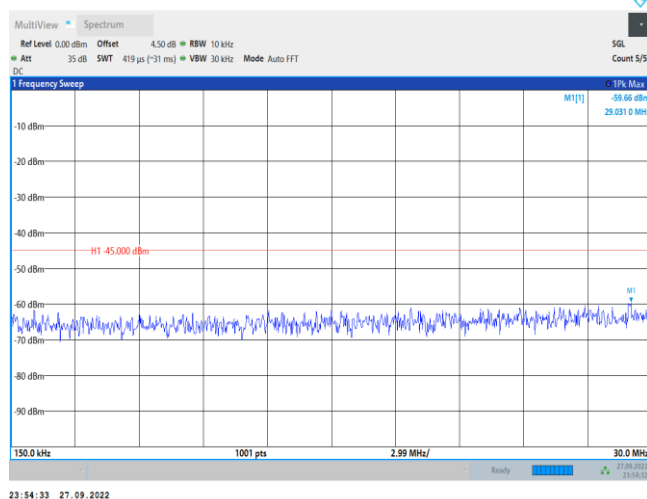
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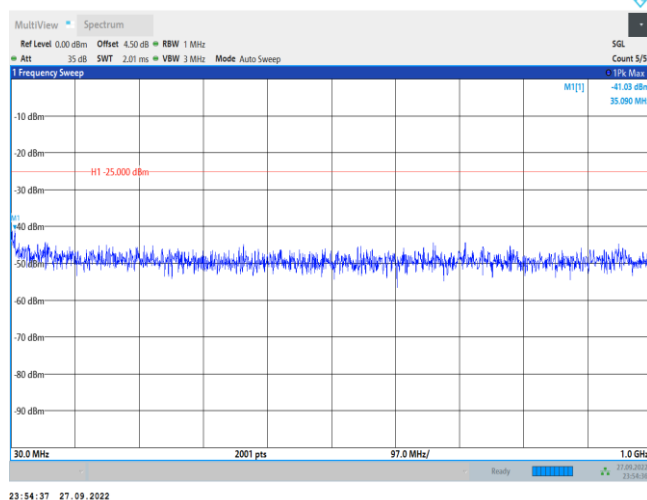
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Band7-20MHz-QPSK-21100-1RB#0-Range2:0.15~30MHz



Band7-20MHz-QPSK-21100-1RB#0-Range3:30~1000MHz



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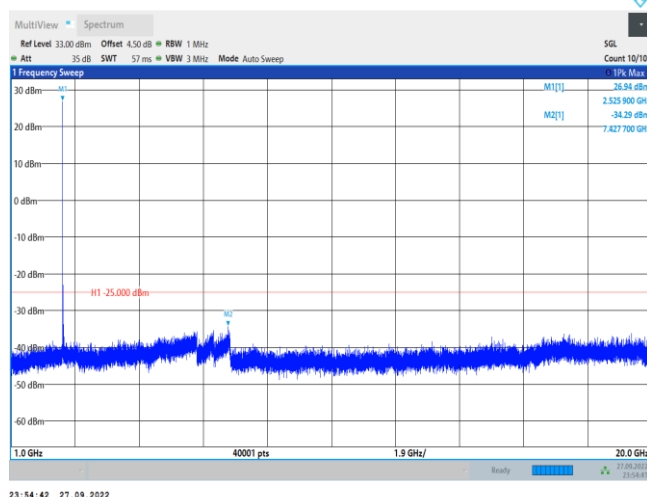
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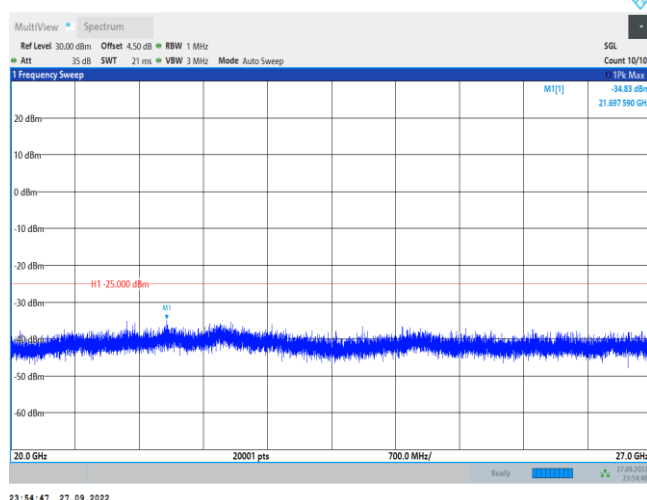
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Band7-20MHz-QPSK-21100-1RB#0-Range4:1000~20000MHz



Band7-20MHz-QPSK-21100-1RB#0-Range5:20000~27000MHz



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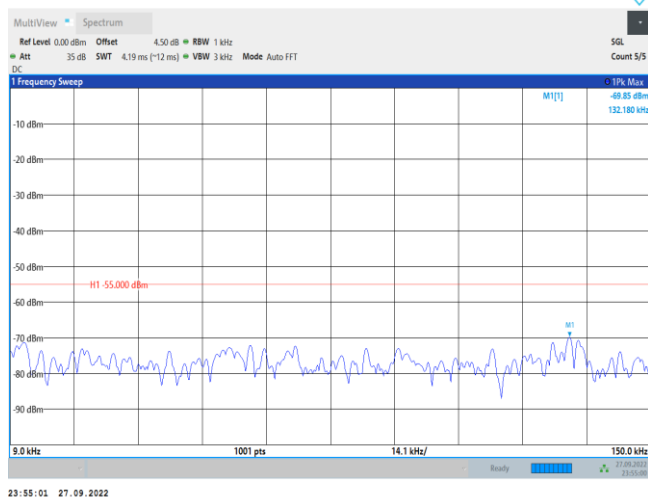
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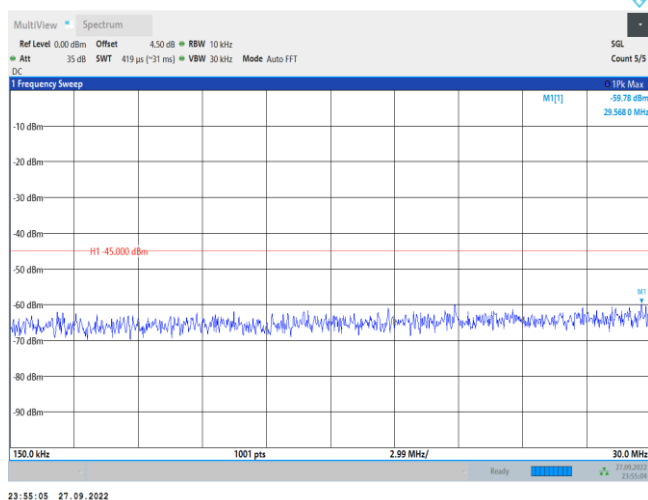
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Band7-20MHz-QPSK-21350-1RB#0-Range1:0.009~0.15MHz



Band7-20MHz-QPSK-21350-1RB#0-Range2:0.15~30MHz



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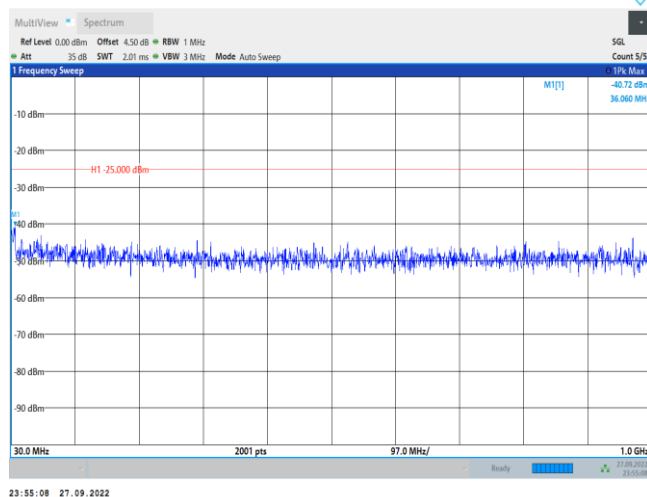
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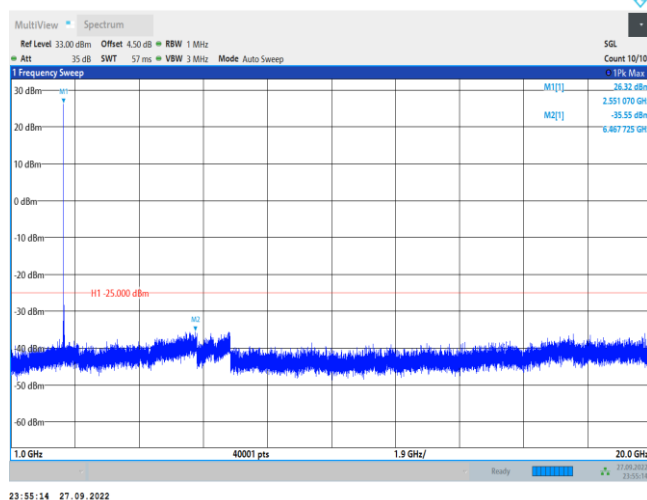
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Band7-20MHz-QPSK-21350-1RB#0-Range3:30~1000MHz



Band7-20MHz-QPSK-21350-1RB#0-Range4:1000~20000MHz



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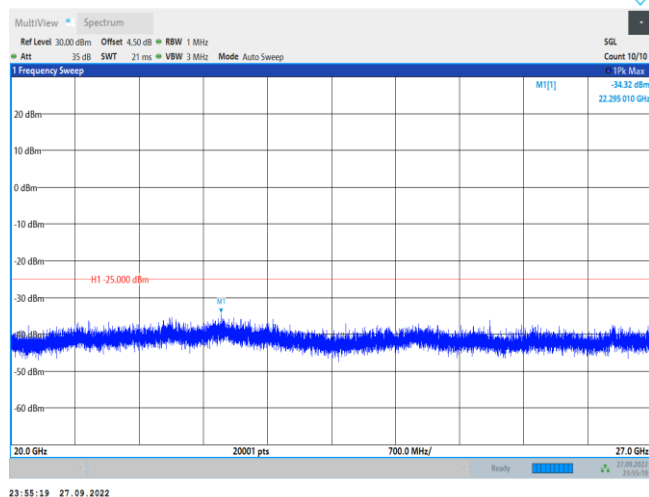
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Field Strength of Spurious Radiation

Test Band = LTE Band7_ TM1
Test Channel = Low

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5002.1800	49.70	-45.63	32.88	-58.31	-25.00	33.31	211	341	Horizontal
2	7503.2700	46.00	-43.13	36.44	-55.95	-25.00	30.95	145	3	Horizontal
3	10004.3600	40.79	-39.23	38.50	-55.21	-25.00	30.21	195	252	Horizontal
4	12505.4500	32.96	-36.99	39.18	-60.11	-25.00	35.11	153	73	Horizontal
5	15006.5400	30.09	-34.65	39.21	-60.61	-25.00	35.61	126	268	Horizontal
6	17507.6300	32.64	-34.95	39.22	-58.35	-25.00	33.35	130	282	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	5002.1800	53.65	-45.63	32.88	-54.36	-25.00	29.36	254	104	Vertical
2	7503.2700	47.92	-43.13	36.44	-54.03	-25.00	29.03	142	91	Vertical
3	10004.3600	47.20	-39.23	38.50	-48.80	-25.00	23.80	126	164	Vertical
4	12505.4500	31.63	-36.99	39.18	-61.44	-25.00	36.44	159	150	Vertical
5	15006.5400	28.99	-34.65	39.21	-61.71	-25.00	36.71	192	269	Vertical
6	17507.6300	30.91	-34.95	39.22	-60.08	-25.00	35.08	143	164	Vertical



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Test Band = LTE Band7_ TM1
Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5052.1800	48.00	-45.50	32.91	-59.85	-25.00	34.85	248	330	Horizontal
2	7578.2700	45.47	-42.97	36.40	-56.36	-25.00	31.36	122	357	Horizontal
3	10104.3600	42.59	-39.14	38.66	-53.15	-25.00	28.15	162	60	Horizontal
4	12630.4500	32.16	-37.33	39.33	-61.10	-25.00	36.10	148	14	Horizontal
5	15156.5400	30.51	-34.37	39.01	-60.11	-25.00	35.11	193	73	Horizontal
6	17682.6300	33.30	-33.89	40.06	-55.79	-25.00	30.79	175	178	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	5052	53.11	-45.50	32.91	-54.74	-25.00	29.74	214	103	Vertical
2	7578.2700	52.26	-42.97	36.40	-49.57	-25.00	24.57	152	88	Vertical
3	10104.3600	50.42	-39.14	38.66	-45.32	-25.00	20.32	169	164	Vertical
4	12630.4500	31.80	-37.33	39.33	-61.46	-25.00	36.46	158	300	Vertical
5	15156.5400	30.19	-34.37	39.01	-60.43	-25.00	35.43	125	30	Vertical
6	17682.6300	32.55	-33.89	40.06	-56.54	-25.00	31.54	133	255	Vertical



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Test Band = LTE Band7_ TM1
Test Channel = High

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5102.1800	47.66	-45.37	32.94	-60.03	-25.00	35.03	213	164	Horizontal
2	7653.2700	45.40	-43.03	36.49	-56.40	-25.00	31.40	265	209	Horizontal
3	10204.3600	41.82	-39.48	38.81	-54.11	-25.00	29.11	128	178	Horizontal
4	12755.4500	31.80	-36.76	39.55	-60.67	-25.00	35.67	195	330	Horizontal
5	15306.5400	30.56	-34.36	38.82	-60.24	-25.00	35.24	140	343	Horizontal
6	17857.6300	33.69	-34.56	41.24	-54.89	-25.00	29.89	183	285	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	5102.1800	52.85	-45.37	32.94	-54.84	-25.00	29.84	241	240	Vertical
2	7653	51.03	-43.03	36.49	-50.77	-25.00	25.77	189	16	Vertical
3	10204.3600	46.72	-39.48	38.81	-49.21	-25.00	24.21	145	31	Vertical
4	12755.4500	33.01	-36.76	39.55	-59.46	-25.00	34.46	175	287	Vertical
5	15306.5400	31.10	-34.36	38.82	-59.70	-25.00	34.70	122	166	Vertical
6	17857.6300	33.08	-34.56	41.24	-55.50	-25.00	30.50	136	60	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band7	20MHz	QPSK	21100	100RB#0	VL	NT	7.90	0.003116	PASS
Band7	20MHz	QPSK	21100	100RB#0	VN	NT	-6.50	-0.002564	PASS
Band7	20MHz	QPSK	21100	100RB#0	VH	NT	5.10	0.002012	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band7	20MHz	QPSK	21100	100RB#0	NV	-30	7.10	0.002801	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-20	6.60	0.002604	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-10	7.50	0.002959	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	0	8.10	0.003195	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	10	-1.40	-0.000552	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	20	-1.30	-0.000513	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	30	-1.20	-0.000473	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	40	7.90	0.003116	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	50	7.40	0.002919	PASS

 $|\text{MAX}(\Delta f)| = 8.1\text{Hz}$

Frequency Stability	Frequency (MHz)	Limit Line	Result
$f_L - \text{MAX}(\Delta f) $	2500.562354	$\geq 2500\text{ MHz}$	PASS
$f_H + \text{MAX}(\Delta f) $	2569.456982	$\leq 2570\text{ MHz}$	

---End of Attachment---



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