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Appendix B.5

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	23.50	24.05	33.00	PASS
Band7	5MHz	QPSK	20775	1RB#12	23.69	24.24	33.00	PASS
Band7	5MHz	QPSK	20775	1RB#24	23.70	24.25	33.00	PASS
Band7	5MHz	QPSK	20775	25RB#0	22.79	23.34	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#0	23.35	23.9	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#12	23.47	24.02	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#24	23.48	24.03	33.00	PASS
Band7	5MHz	QPSK	21100	25RB#0	22.49	23.04	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#0	23.36	23.91	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#12	23.46	24.01	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#24	23.39	23.94	33.00	PASS
Band7	5MHz	QPSK	21425	25RB#0	22.50	23.05	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#0	22.83	23.38	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#12	23.01	23.56	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#24	22.98	23.53	33.00	PASS
Band7	5MHz	16QAM	20775	25RB#0	21.80	22.35	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#0	22.76	23.31	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#12	22.83	23.38	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#24	22.79	23.34	33.00	PASS
Band7	5MHz	16QAM	21100	25RB#0	21.55	22.1	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#0	22.65	23.2	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#12	22.73	23.28	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#24	22.67	23.22	33.00	PASS
Band7	5MHz	16QAM	21425	25RB#0	21.52	22.07	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#0	23.70	24.25	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#24	23.52	24.07	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#49	23.59	24.14	33.00	PASS



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Band7	10MHz	QPSK	20800	50RB#0	22.73	23.28	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#0	23.45	24	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#24	23.22	23.77	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#49	23.40	23.95	33.00	PASS
Band7	10MHz	QPSK	21100	50RB#0	22.49	23.04	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#0	23.43	23.98	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#24	23.30	23.85	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#49	23.35	23.9	33.00	PASS
Band7	10MHz	QPSK	21400	50RB#0	22.52	23.07	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#0	22.98	23.53	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#24	22.80	23.35	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#49	22.89	23.44	33.00	PASS
Band7	10MHz	16QAM	20800	50RB#0	21.74	22.29	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#0	22.80	23.35	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#24	22.67	23.22	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#49	22.86	23.41	33.00	PASS
Band7	10MHz	16QAM	21100	50RB#0	21.56	22.11	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#0	22.83	23.38	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#24	22.60	23.15	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#49	22.67	23.22	33.00	PASS
Band7	10MHz	16QAM	21400	50RB#0	21.53	22.08	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#0	23.78	24.33	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#38	23.75	24.3	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#74	23.69	24.24	33.00	PASS
Band7	15MHz	QPSK	20825	75RB#0	22.87	23.42	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#0	23.64	24.19	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#38	23.48	24.03	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#74	23.53	24.08	33.00	PASS
Band7	15MHz	QPSK	21100	75RB#0	22.69	23.24	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#0	23.64	24.19	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#38	23.54	24.09	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#74	23.50	24.05	33.00	PASS



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Band7	15MHz	QPSK	21375	75RB#0	22.68	23.23	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#0	23.16	23.71	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#38	23.06	23.61	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#74	23.03	23.58	33.00	PASS
Band7	15MHz	16QAM	20825	75RB#0	21.88	22.43	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#0	22.94	23.49	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#38	23.00	23.55	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#74	22.92	23.47	33.00	PASS
Band7	15MHz	16QAM	21100	75RB#0	21.68	22.23	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#0	23.06	23.61	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#38	22.92	23.47	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#74	22.83	23.38	33.00	PASS
Band7	15MHz	16QAM	21375	75RB#0	21.70	22.25	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#0	23.84	24.39	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#49	23.76	24.31	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#99	23.60	24.15	33.00	PASS
Band7	20MHz	QPSK	20850	100RB#0	22.85	23.4	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#0	23.67	24.22	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#49	23.48	24.03	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#99	23.59	24.14	33.00	PASS
Band7	20MHz	QPSK	21100	100RB#0	22.64	23.19	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#0	23.72	24.27	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#49	23.55	24.1	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#99	23.43	23.98	33.00	PASS
Band7	20MHz	QPSK	21350	100RB#0	22.65	23.2	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#0	23.22	23.77	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#49	23.00	23.55	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#99	23.00	23.55	33.00	PASS
Band7	20MHz	16QAM	20850	100RB#0	21.84	22.39	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#0	22.97	23.52	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#49	22.92	23.47	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#99	22.77	23.32	33.00	PASS



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Band7	20MHz	16QAM	21100	100RB#0	21.69	22.24	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#0	23.16	23.71	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#49	22.89	23.44	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#99	22.74	23.29	33.00	PASS
Band7	20MHz	16QAM	21350	100RB#0	21.65	22.2	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
Band7	20MHz	QPSK	20850	100RB#0	5.18	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	5.48	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	5.18	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	5.94	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	6.28	13	PASS
Band7	20MHz	16QAM	21350	100RB#0	6.02	13	PASS



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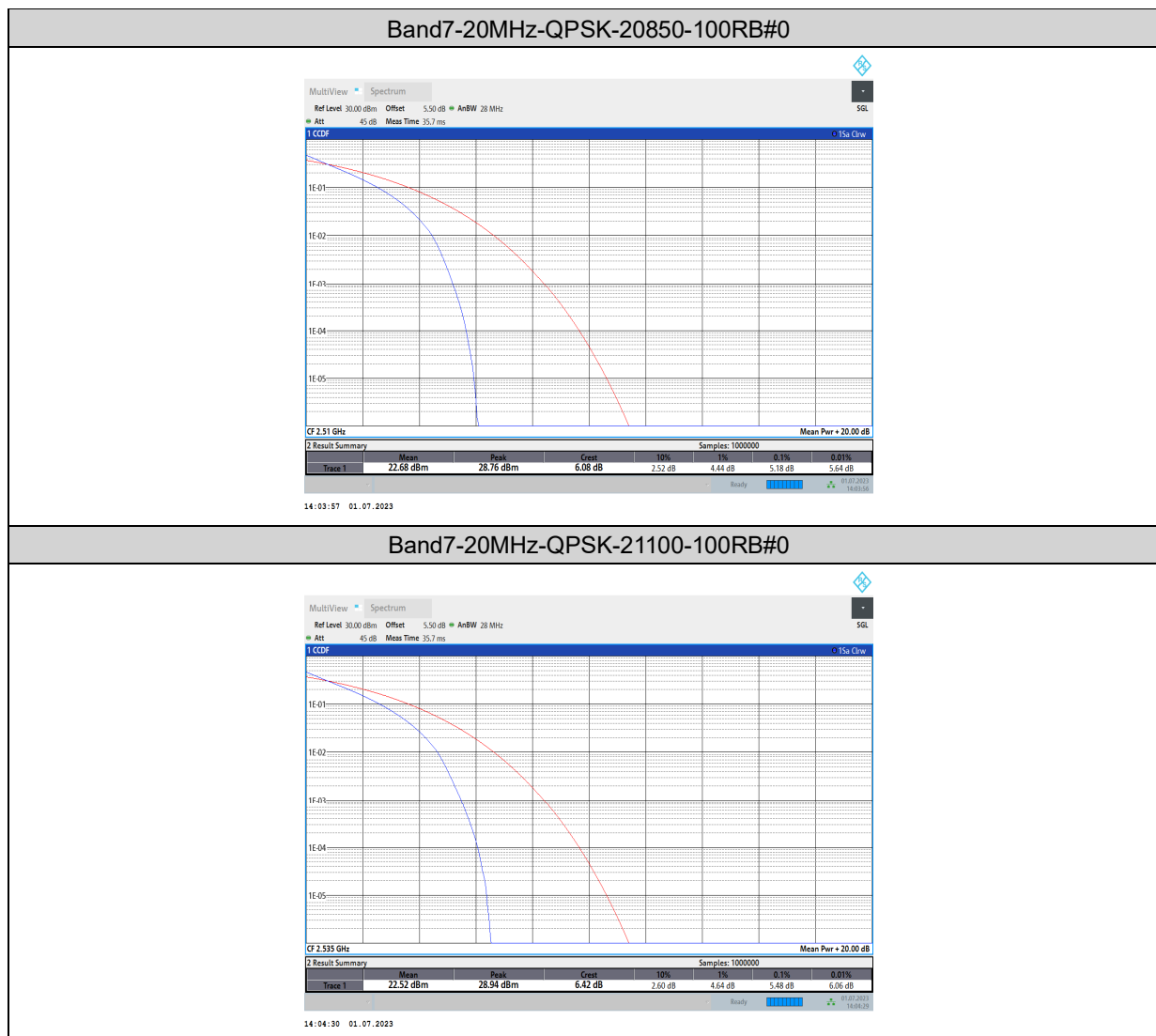
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Test Graphs



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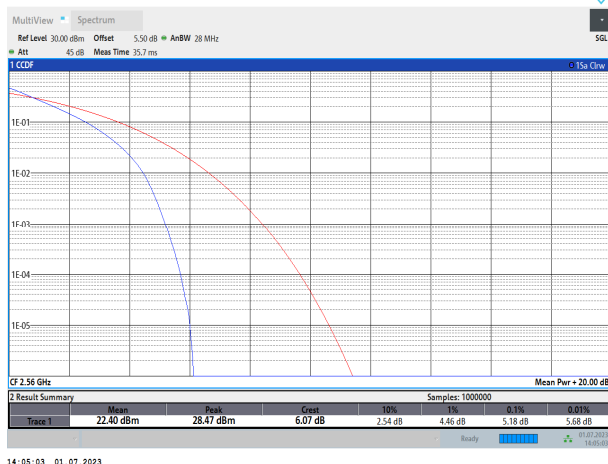
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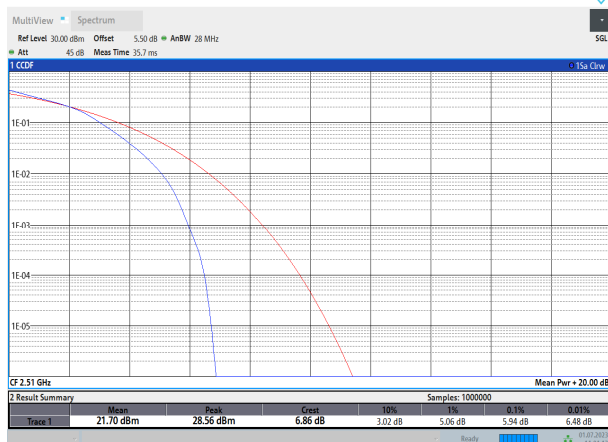
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Band7-20MHz-QPSK-21350-100RB#0



14:05:03 01.07.2023

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



14:04:13 01.07.2023



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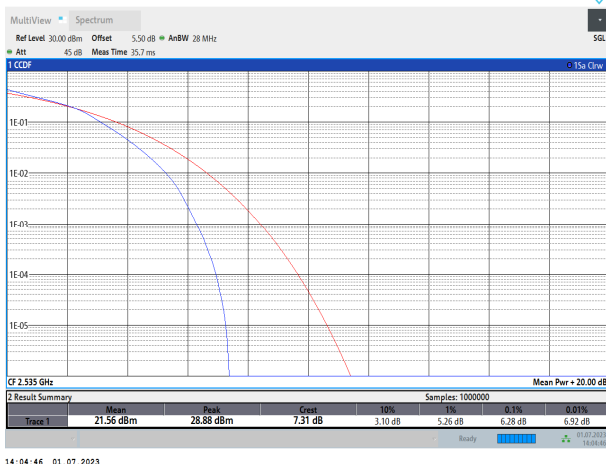
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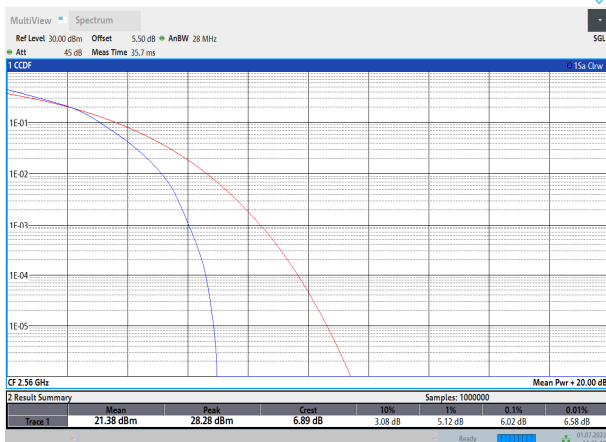
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Band7-20MHz-16QAM-21100-100RB#0



14:04:46 01.07.2023

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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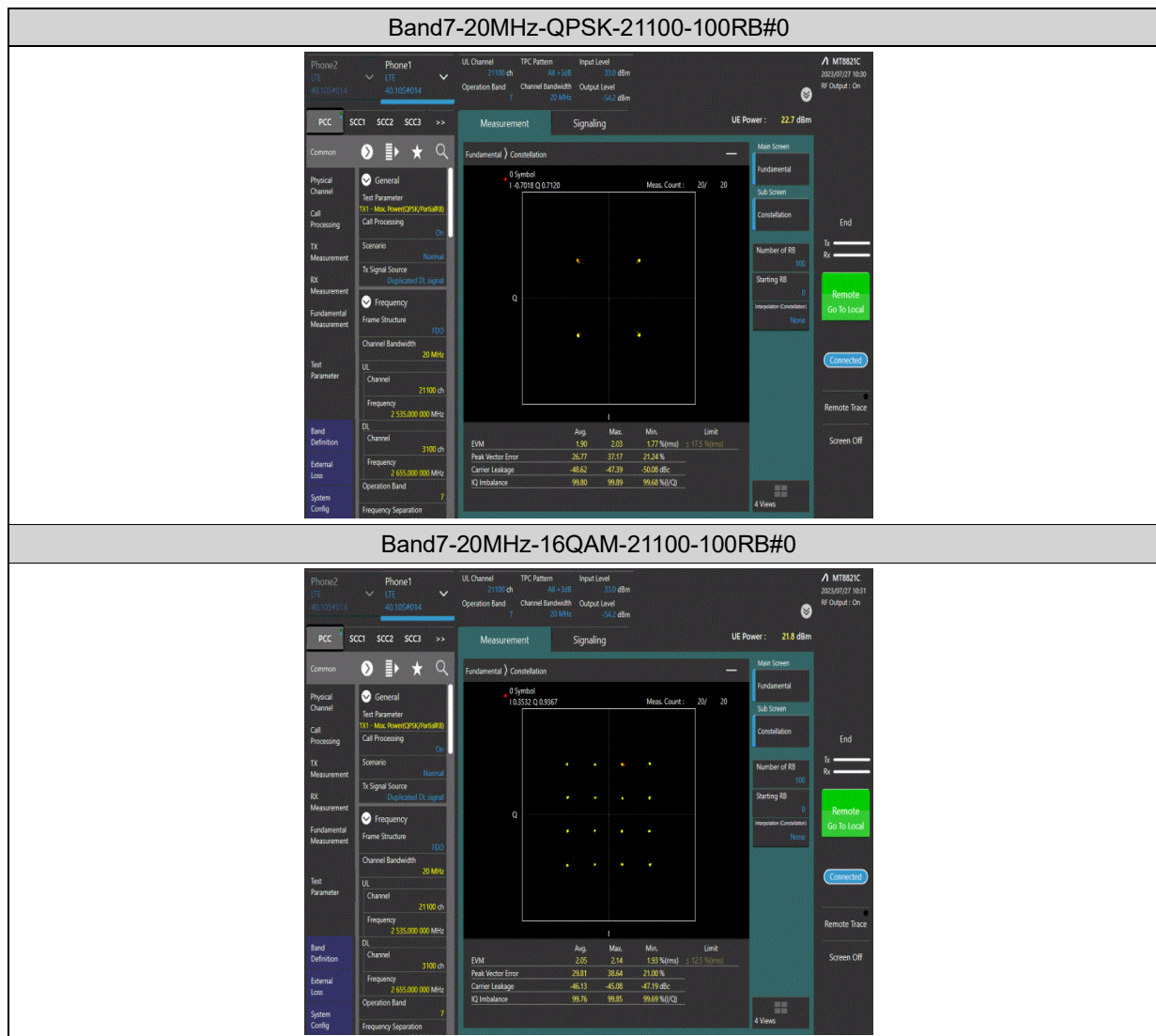
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Test Graphs



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	4.469	4.88	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.469	4.88	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.471	4.88	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.47	4.90	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.468	4.90	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.469	4.91	PASS
Band7	10MHz	QPSK	20800	50RB#0	8.911	9.70	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.939	9.62	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.938	9.60	PASS
Band7	10MHz	16QAM	20800	50RB#0	8.925	9.64	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.91	9.58	PASS
Band7	10MHz	16QAM	21400	50RB#0	8.915	9.62	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.451	14.73	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.48	14.79	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.452	14.76	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.44	14.73	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.455	14.91	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.438	14.85	PASS
Band7	20MHz	QPSK	20850	100RB#0	17.919	19.52	PASS
Band7	20MHz	QPSK	21100	100RB#0	17.935	19.44	PASS
Band7	20MHz	QPSK	21350	100RB#0	17.911	19.48	PASS
Band7	20MHz	16QAM	20850	100RB#0	17.896	19.32	PASS
Band7	20MHz	16QAM	21100	100RB#0	17.875	19.40	PASS
Band7	20MHz	16QAM	21350	100RB#0	17.872	19.36	PASS



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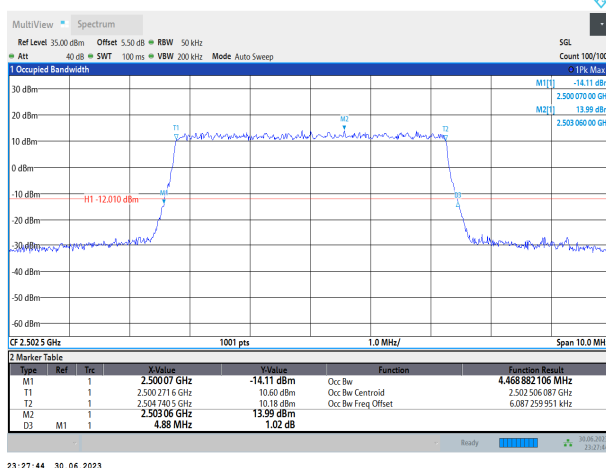
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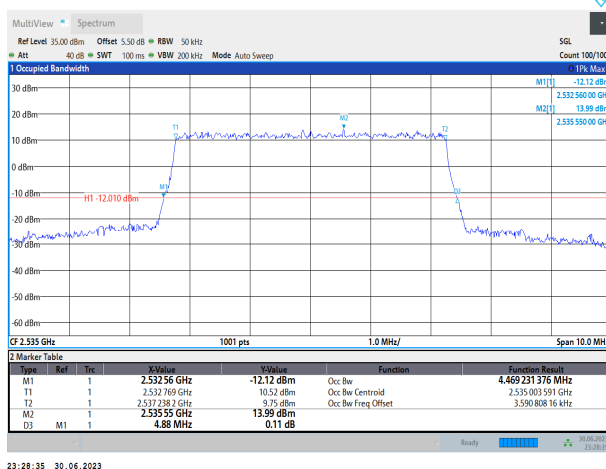
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Test Graphs

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



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

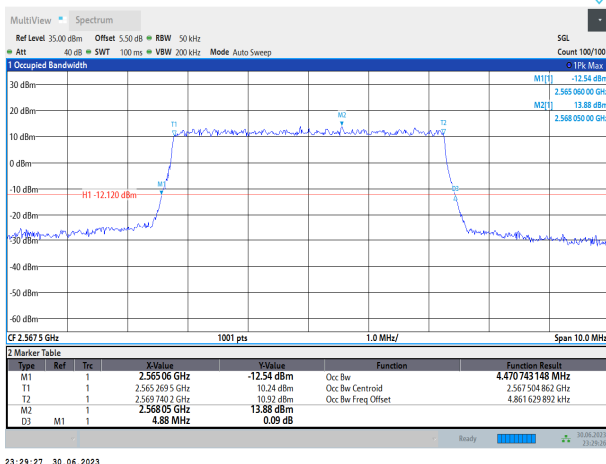


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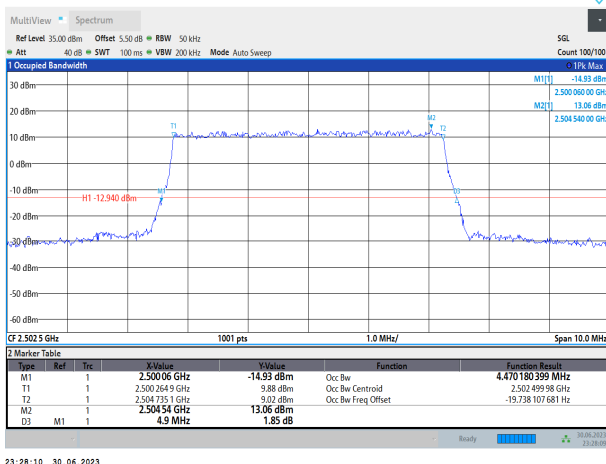
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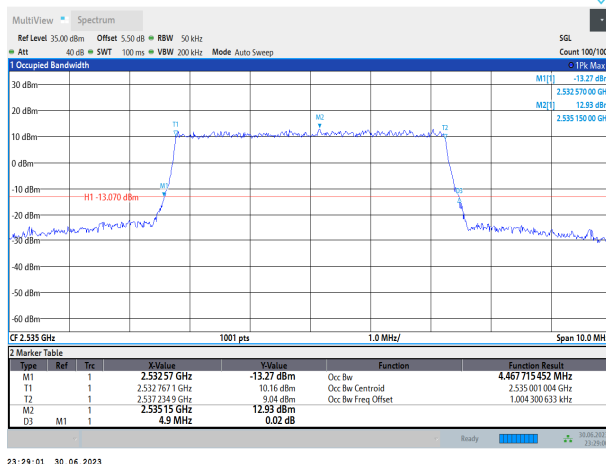
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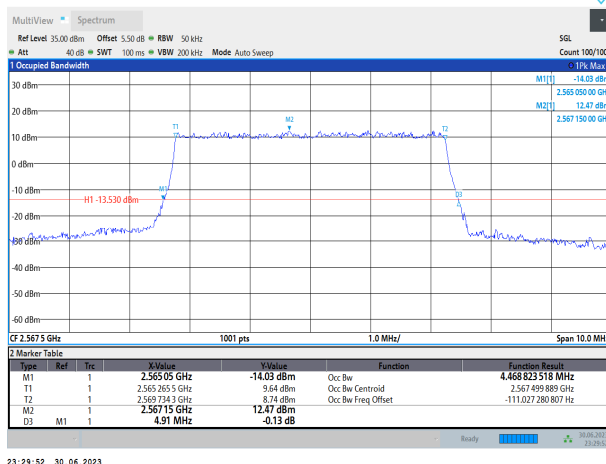
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Band7-5MHz-16QAM-21425-25RB#0



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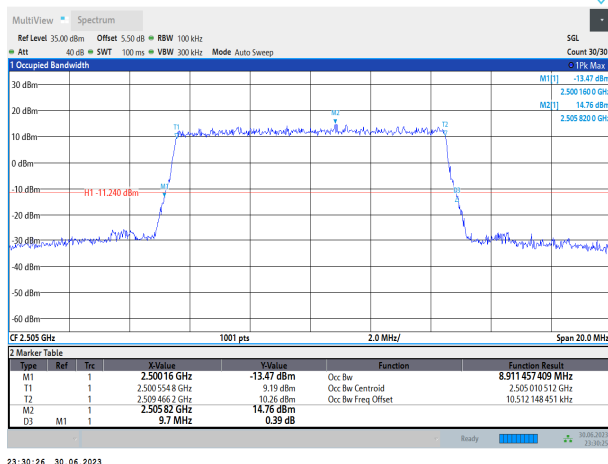
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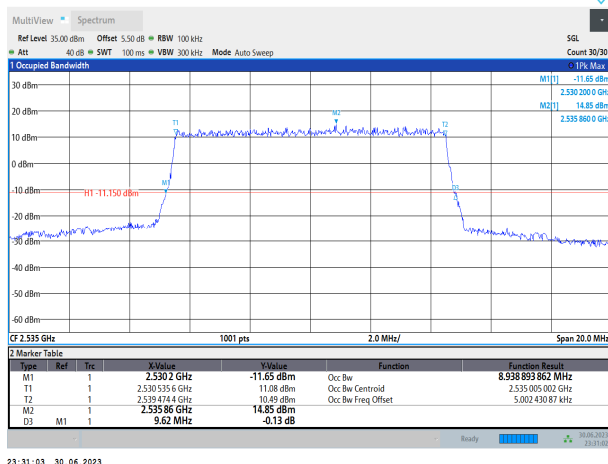
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Band7-10MHz-QPSK-20800-50RB#0



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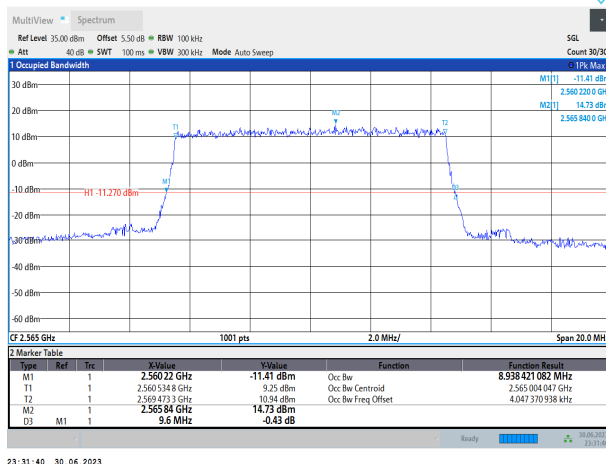
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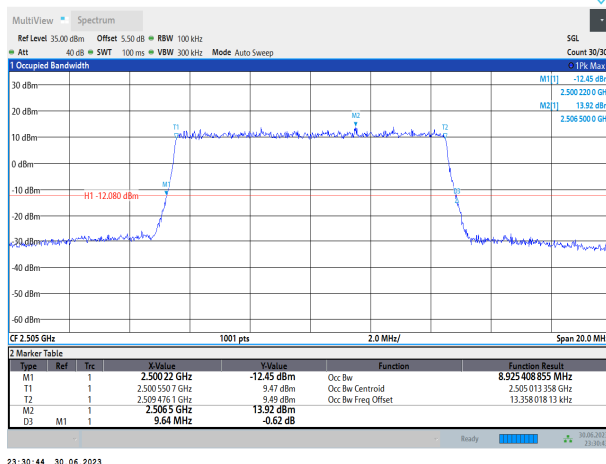
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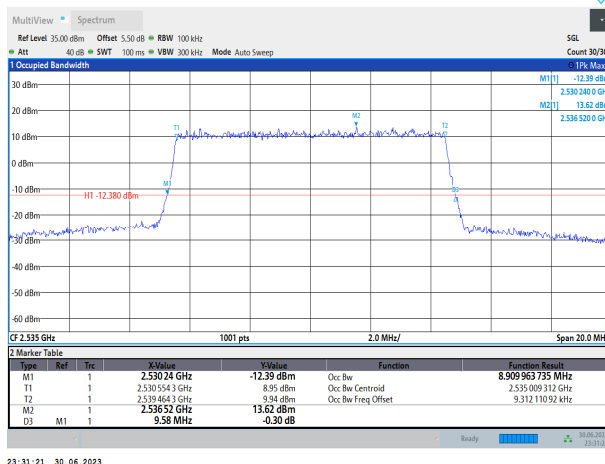
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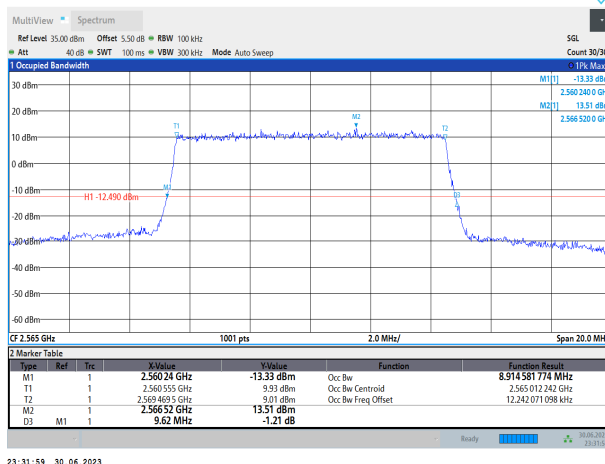
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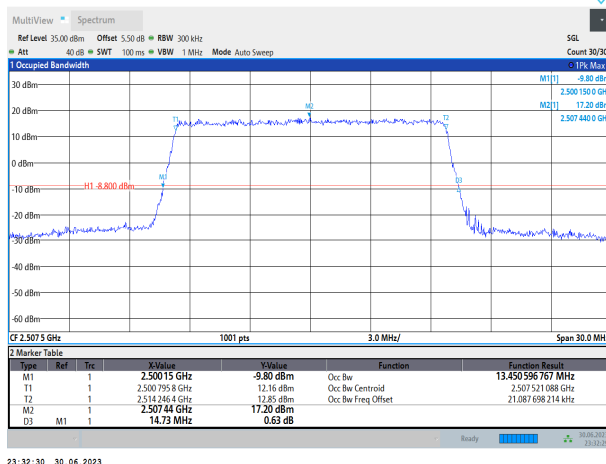
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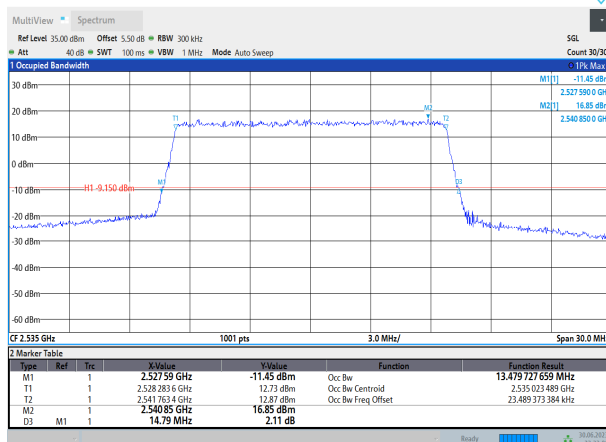
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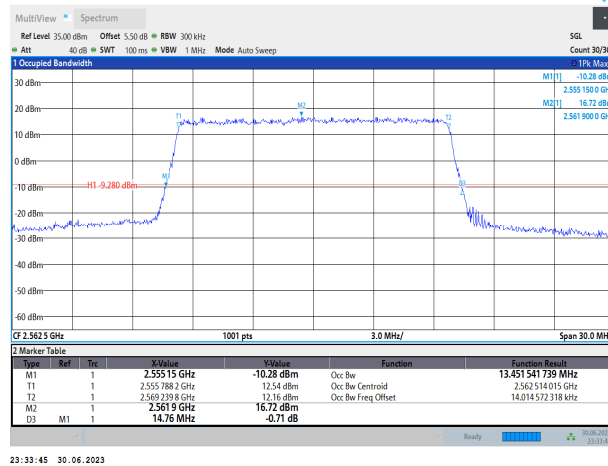
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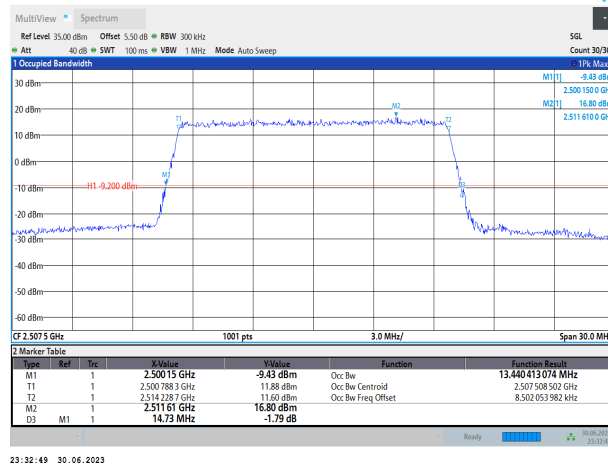
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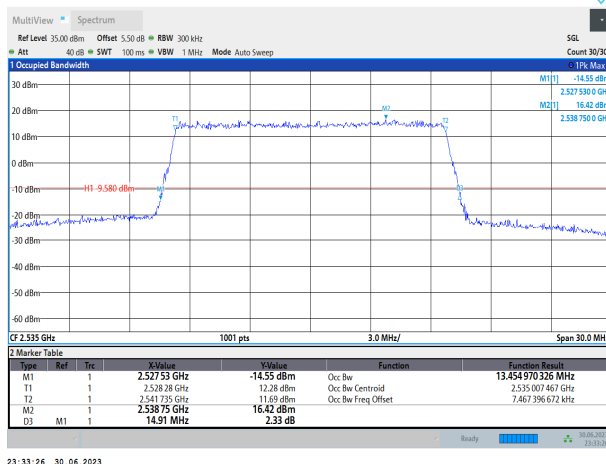
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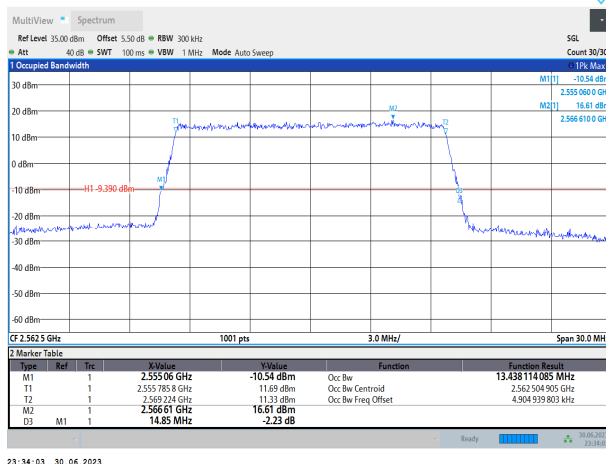
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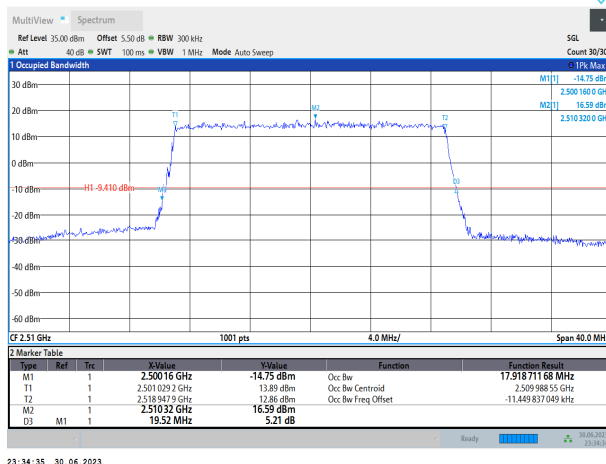
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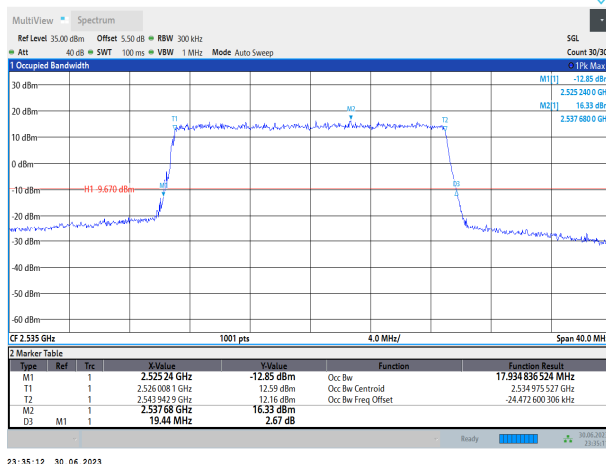
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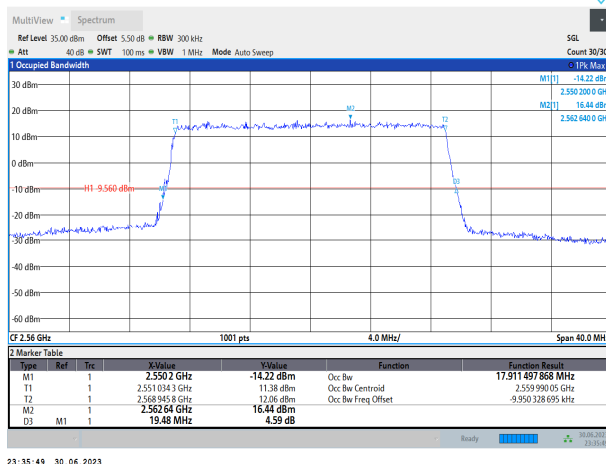
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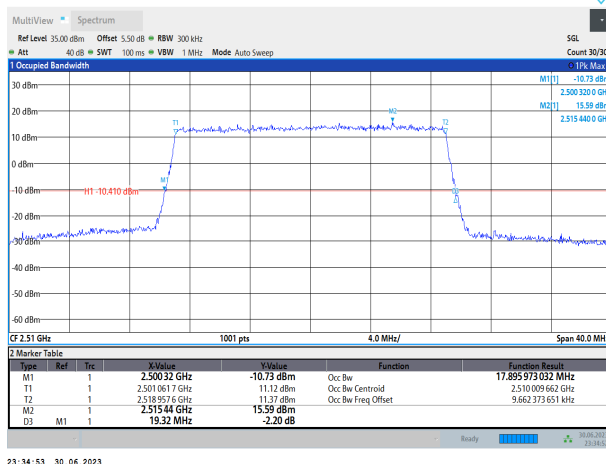
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Band7-20MHz-QPSK-21350-100RB#0



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

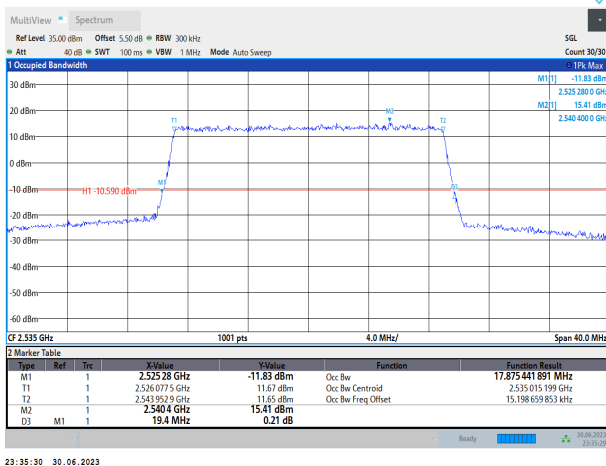


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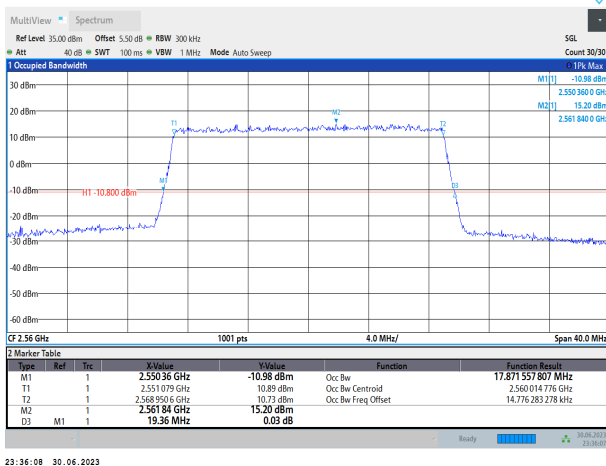
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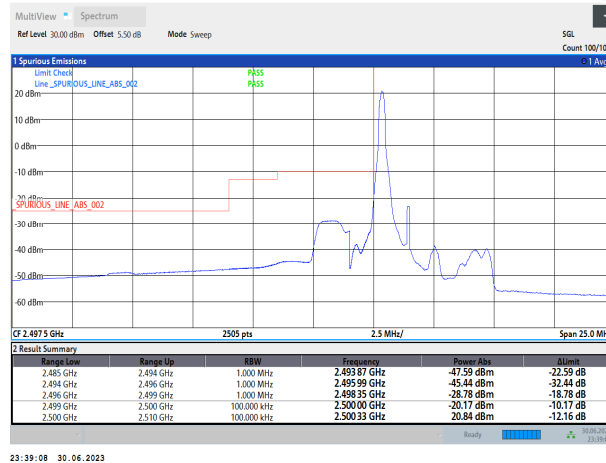
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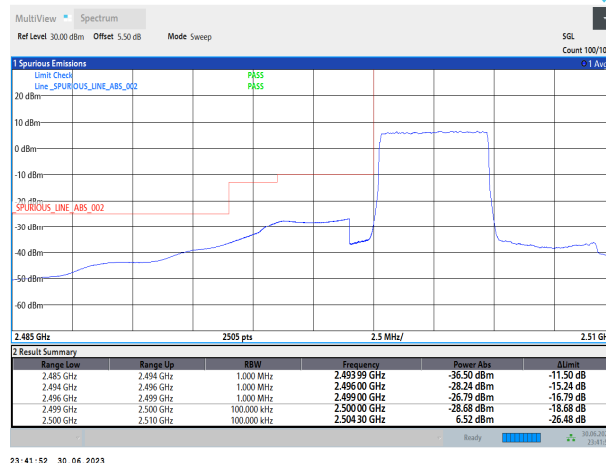
Band Edge

Test Graphs

Band7-5MHz-QPSK-20775-1RB#0



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



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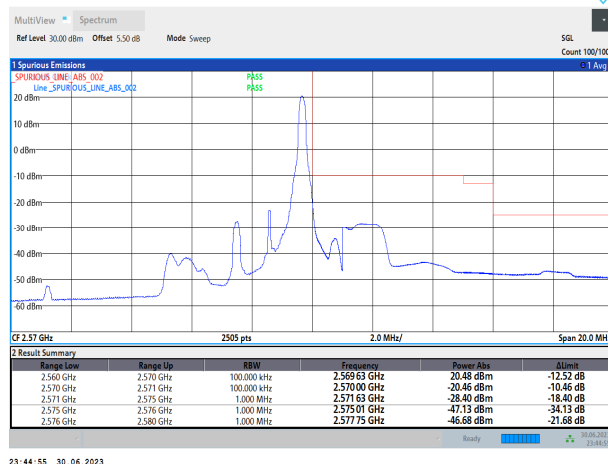
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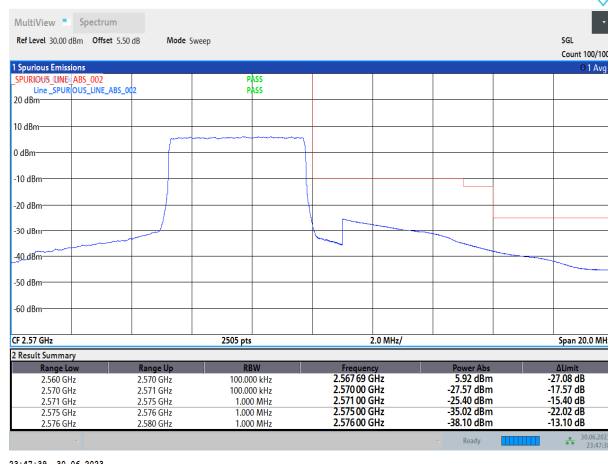
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Band7-5MHz-QPSK-21425-1RB#24



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Band7-5MHz-QPSK-21425-25RB#0



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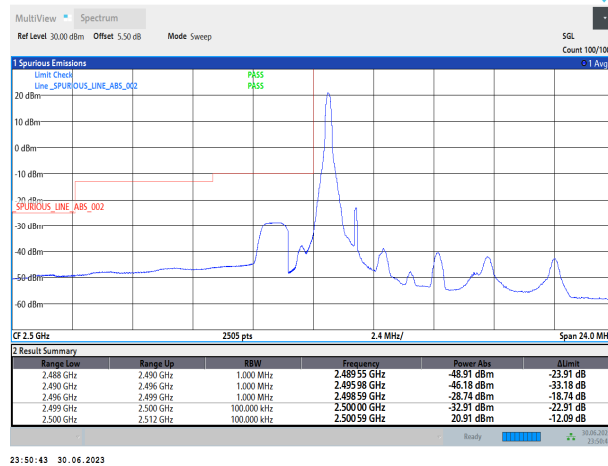
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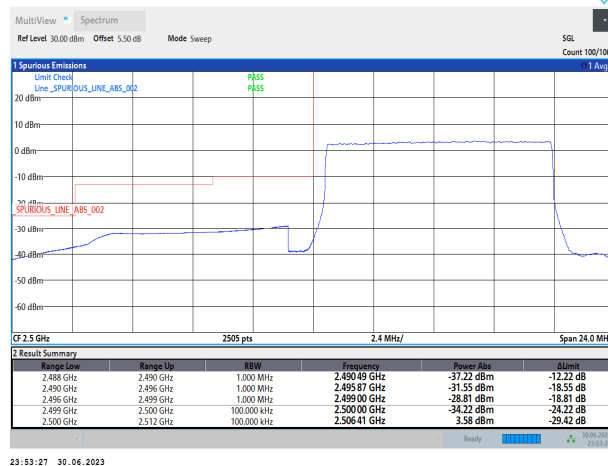
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Band7-10MHz-QPSK-20800-1RB#0



Band7-10MHz-QPSK-20800-50RB#0

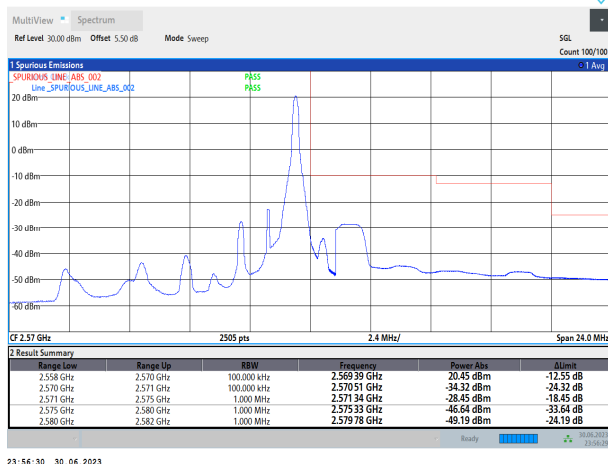


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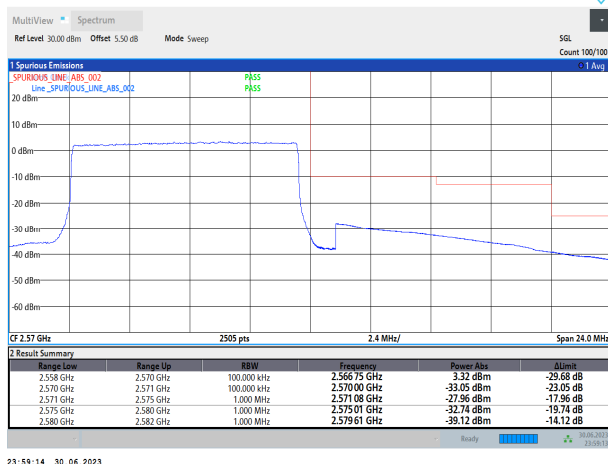
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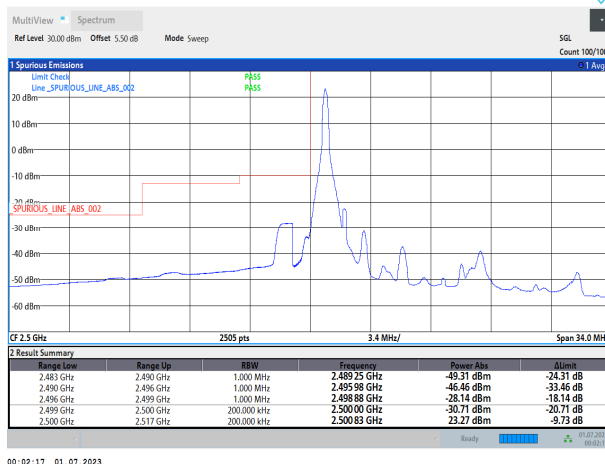
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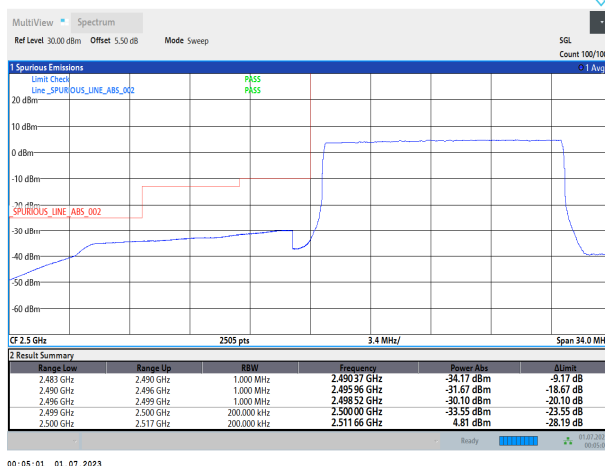
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Band7-15MHz-QPSK-20825-75RB#0



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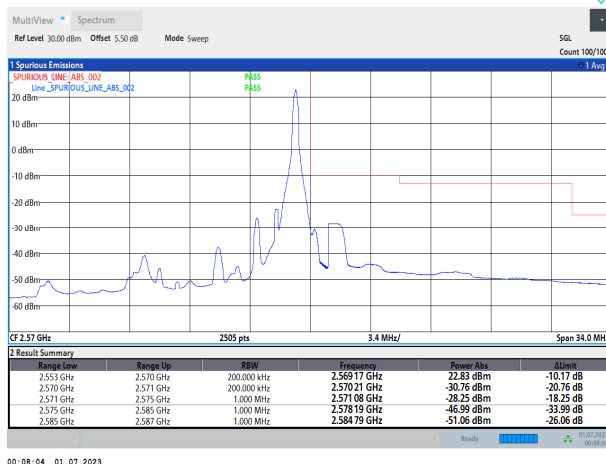
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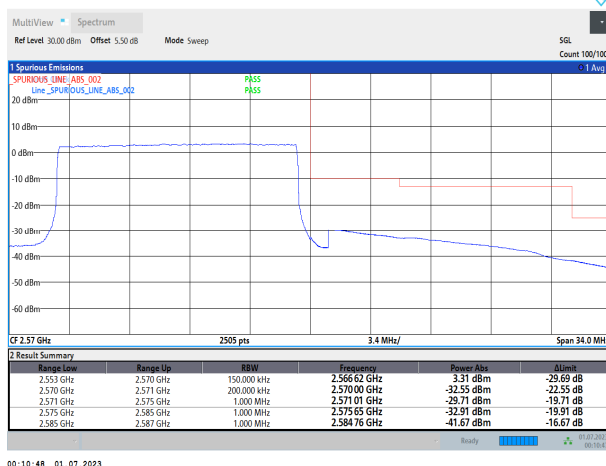
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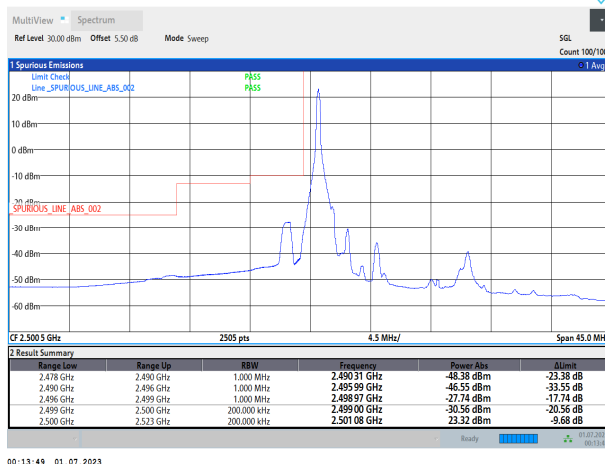
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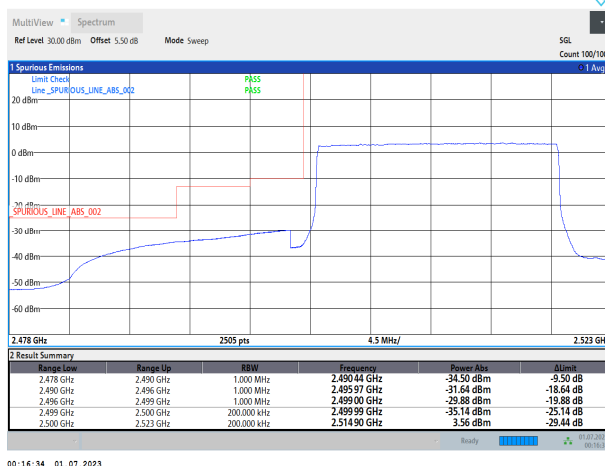
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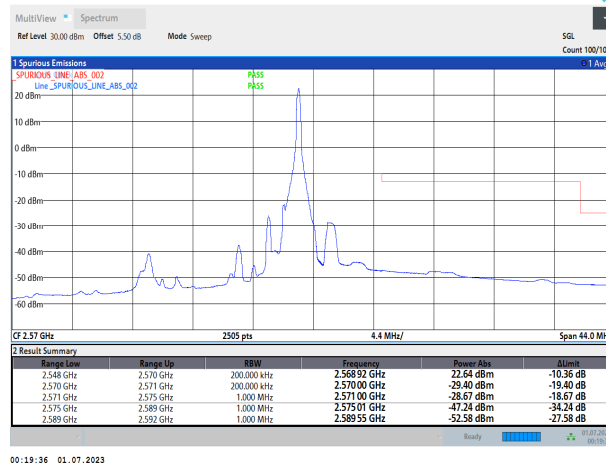
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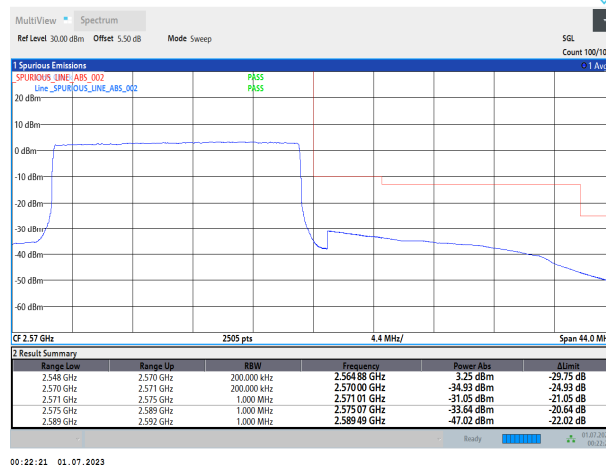
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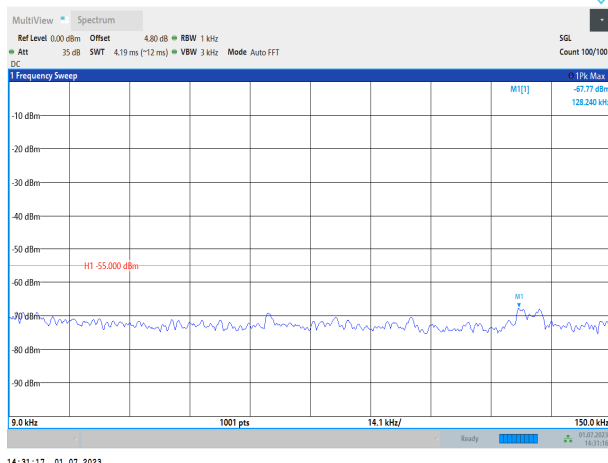
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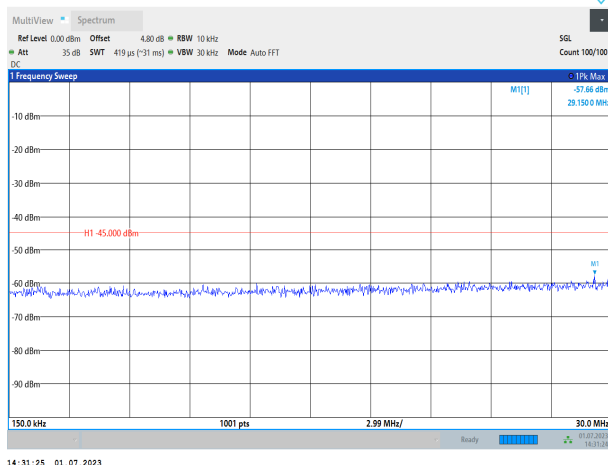
Conducted Spurious Emission

Test Graphs

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



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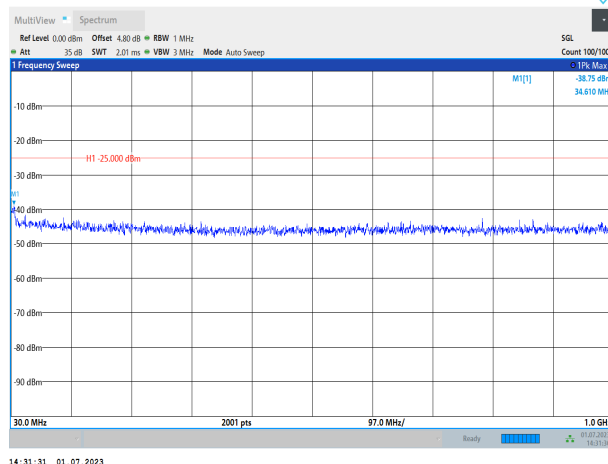
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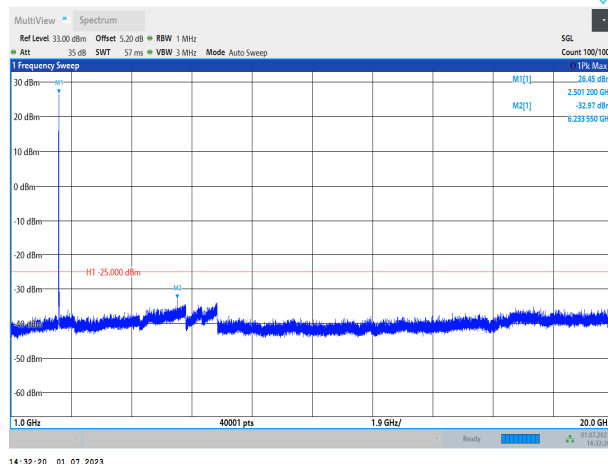
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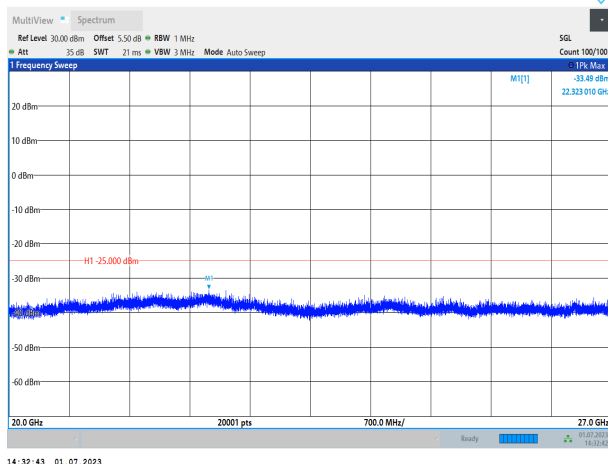
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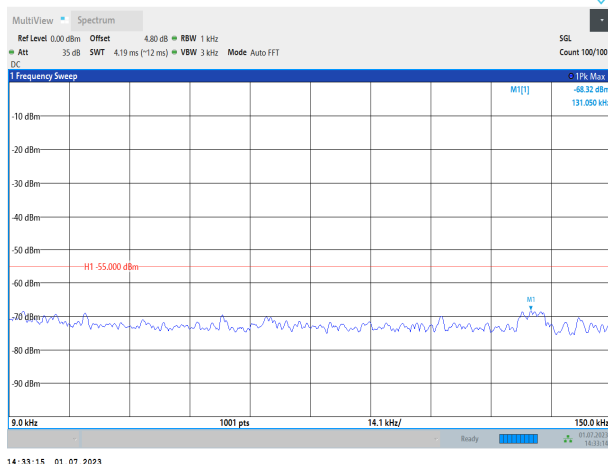
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Band7-20MHz-QPSK-20850-1RB#0-Range5:20000~27000MHz



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



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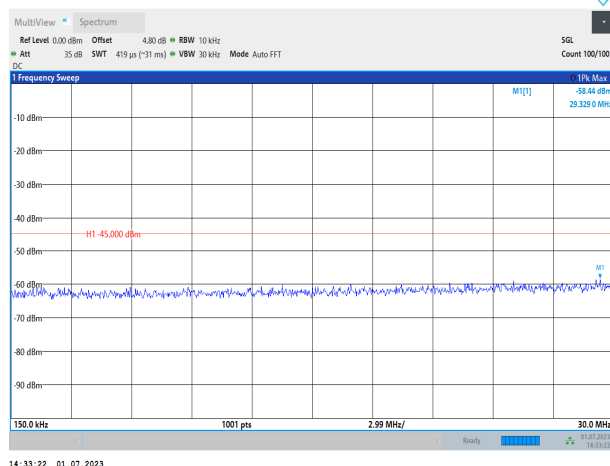


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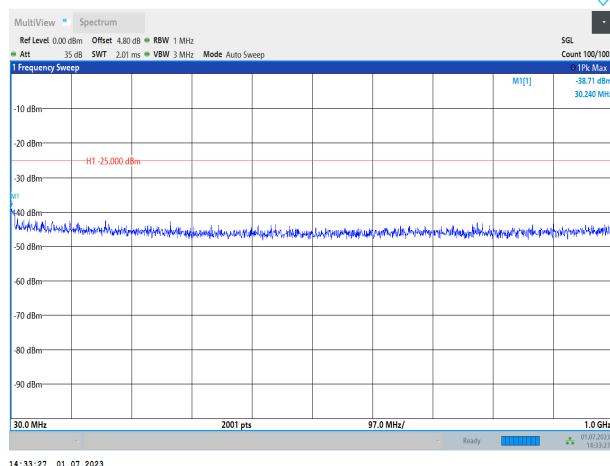
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Band7-20MHz-QPSK-21100-1RB#0-Range2:0.15~30MHz



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



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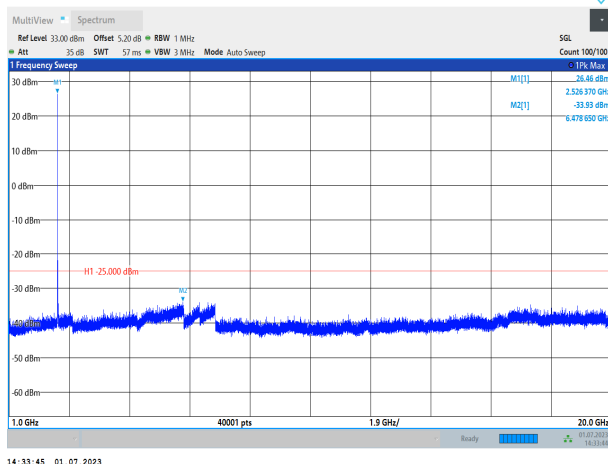
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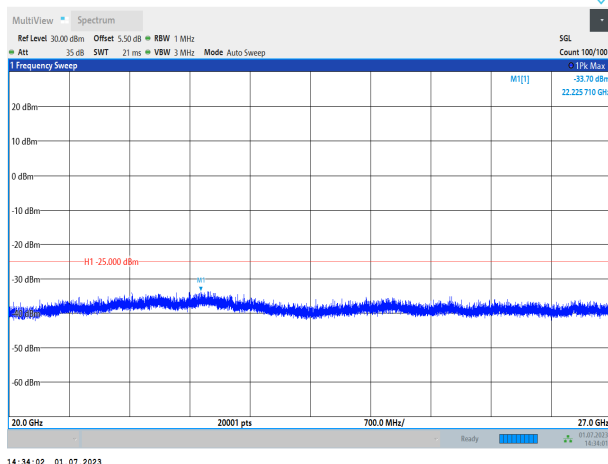
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Band7-20MHz-QPSK-21100-1RB#0-Range4:1000~20000MHz



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



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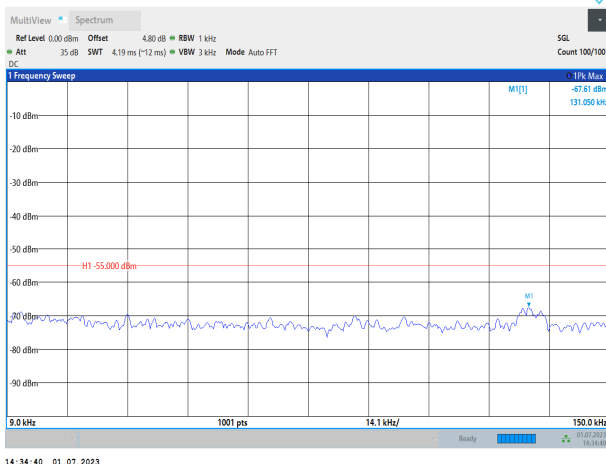
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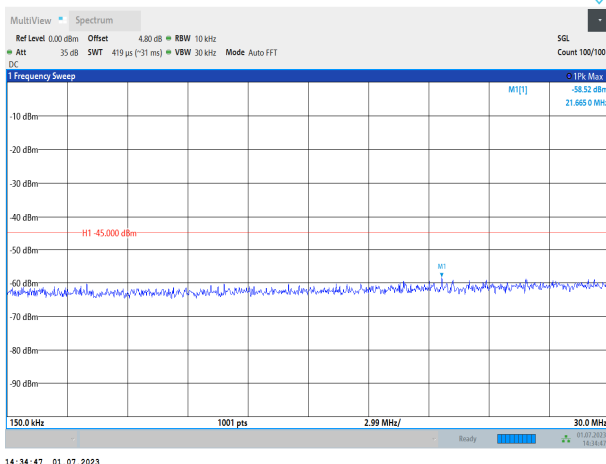
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Band7-20MHz-QPSK-21350-1RB#0-Range1:0.009~0.15MHz



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



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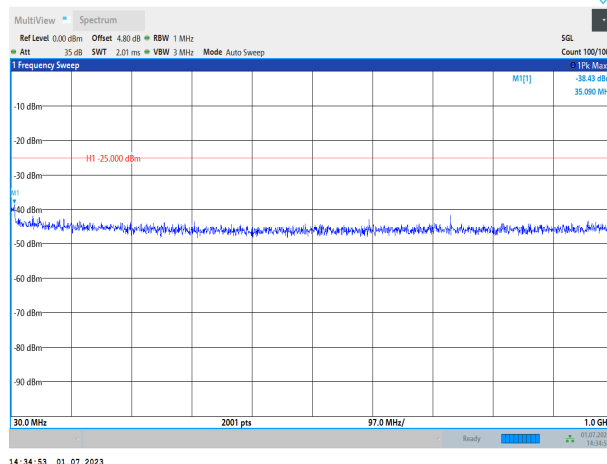
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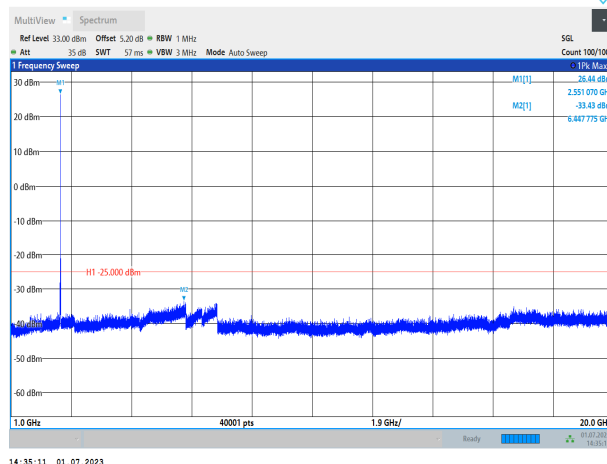
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Band7-20MHz-QPSK-21350-1RB#0-Range3:30~1000MHz



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



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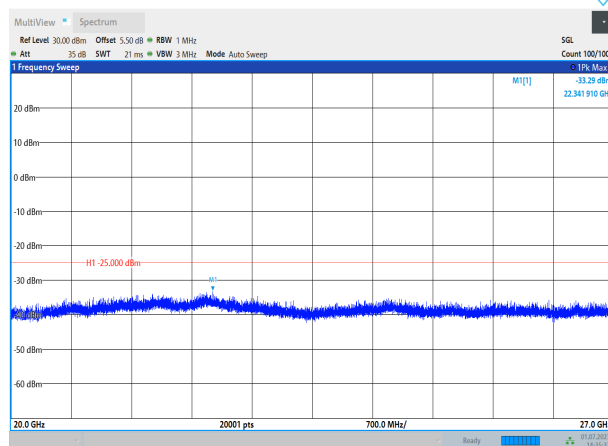


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Band7-20MHz-QPSK-21350-1RB#0-Range5:20000~27000MHz



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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	43.19	-45.63	31.41	-66.30	-25.00	41.30	255	317	Horizontal
2	7503.2700	40.04	-43.13	36.60	-61.75	-25.00	36.75	166	360	Horizontal
3	10004.3600	36.06	-39.23	38.20	-60.23	-25.00	35.23	195	2	Horizontal
4	12505.4500	33.64	-36.99	38.95	-59.66	-25.00	34.66	172	19	Horizontal
5	15006.5400	31.74	-34.65	41.29	-56.89	-25.00	31.89	155	249	Horizontal
6	17507.6300	31.84	-34.95	44.59	-53.78	-25.00	28.78	120	301	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	43.16	-45.63	31.41	-66.33	-25.00	41.33	144	69	Vertical
2	7503.2700	39.92	-43.13	36.60	-61.87	-25.00	36.87	153	245	Vertical
3	10004.3600	36.15	-39.23	38.20	-60.14	-25.00	35.14	261	56	Vertical
4	12505.4500	33.41	-36.99	38.95	-59.89	-25.00	34.89	158	259	Vertical
5	15006.5400	31.63	-34.65	41.29	-57.00	-25.00	32.00	172	172	Vertical
6	17507.6300	33.11	-34.95	44.59	-52.51	-25.00	27.51	136	16	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	41.96	-45.50	31.53	-67.27	-25.00	42.27	244	138	Horizontal
2	7578.2700	40.22	-42.98	36.63	-61.38	-25.00	36.38	175	360	Horizontal
3	10104.3600	35.48	-39.14	38.25	-60.66	-25.00	35.66	142	9	Horizontal
4	12630.4500	33.89	-37.33	38.99	-59.71	-25.00	34.71	166	57	Horizontal
5	15156.5400	31.42	-34.36	40.97	-57.23	-25.00	32.23	259	205	Horizontal
6	17682.6300	32.59	-33.89	45.37	-51.19	-25.00	26.19	183	57	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	5052.1800	42.33	-45.50	31.53	-66.90	-25.00	41.90	259	318	Vertical
2	7578.2700	39.76	-42.98	36.63	-61.84	-25.00	36.84	142	220	Vertical
3	10104.3600	35.71	-39.14	38.25	-60.43	-25.00	35.43	156	152	Vertical
4	12630.4500	33.73	-37.33	38.99	-59.87	-25.00	34.87	182	0	Vertical
5	15156.5400	31.41	-34.36	40.97	-57.24	-25.00	32.24	172	314	Vertical
6	17682.6300	31.98	-33.89	45.37	-51.80	-25.00	26.80	153	152	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	42.06	-45.37	31.65	-66.92	-25.00	41.92	244	0	Horizontal
2	7653.2700	40.21	-43.03	36.66	-61.42	-25.00	36.42	175	276	Horizontal
3	10204.3600	34.79	-39.48	38.30	-61.65	-25.00	36.65	146	330	Horizontal
4	12755.4500	33.24	-36.76	39.03	-59.76	-25.00	34.76	192	315	Horizontal
5	15306.5400	32.41	-34.35	40.66	-56.55	-25.00	31.55	185	98	Horizontal
6	17857.6300	32.92	-34.56	46.16	-50.74	-25.00	25.74	152	31	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	42.95	-45.37	31.65	-66.03	-25.00	41.03	266	111	Vertical
2	7653.2700	39.91	-43.03	36.66	-61.72	-25.00	36.72	145	18	Vertical
3	10204.3600	35.33	-39.48	38.30	-61.11	-25.00	36.11	185	248	Vertical
4	12755.4500	33.62	-36.76	39.03	-59.38	-25.00	34.38	172	57	Vertical
5	15306.5400	31.78	-34.35	40.66	-57.18	-25.00	32.18	103	248	Vertical
6	17857.6300	32.52	-34.56	46.16	-51.14	-25.00	26.14	261	71	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) - Pre-amplifier (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	6.40	0.002525	PASS
Band7	20MHz	QPSK	21100	100RB#0	VN	NT	6.00	0.002367	PASS
Band7	20MHz	QPSK	21100	100RB#0	VH	NT	6.80	0.002682	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band7	20MHz	QPSK	21100	100RB#0	NV	-30	-9.70	-0.003826	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-20	-15.20	-0.005996	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-10	-12.90	-0.005089	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	0	-12.90	-0.005089	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	10	-4.00	-0.001578	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	20	-7.20	-0.002840	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	30	-7.20	-0.002840	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	40	2.70	0.001065	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	50	-11.10	-0.004379	PASS

---End of Attachment---



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