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# Appendix B.5

## LTE Band 12



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## Effective (Isotropic) Radiated Power Output Data

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	23.46	20.98	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	23.45	20.97	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	23.36	20.88	34.77	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	22.41	19.93	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	23.42	20.94	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	23.47	20.99	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	23.44	20.96	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	22.54	20.06	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	23.40	20.92	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	23.46	20.98	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	23.37	20.89	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	22.48	20.00	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	22.66	20.18	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	22.65	20.17	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	22.52	20.04	34.77	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	21.49	19.01	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	22.65	20.17	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	22.72	20.24	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	22.58	20.10	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	21.54	19.06	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	22.70	20.22	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	22.75	20.27	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	22.67	20.19	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	21.55	19.07	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	23.66	21.18	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#8	23.63	21.15	34.77	PASS



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Band12	3MHz	QPSK	23025	1RB#14	23.59	21.11	34.77	PASS
Band12	3MHz	QPSK	23025	15RB#0	22.73	20.25	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	23.64	21.16	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#8	23.67	21.19	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	23.63	21.15	34.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	22.79	20.31	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	23.65	21.17	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#8	23.65	21.17	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#14	23.60	21.12	34.77	PASS
Band12	3MHz	QPSK	23165	15RB#0	22.73	20.25	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#0	22.94	20.46	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#8	22.94	20.46	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	22.94	20.46	34.77	PASS
Band12	3MHz	16QAM	23025	15RB#0	21.73	19.25	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#0	22.93	20.45	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#8	22.95	20.47	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#14	22.87	20.39	34.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	21.80	19.32	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#0	22.92	20.44	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#8	22.83	20.35	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#14	22.83	20.35	34.77	PASS
Band12	3MHz	16QAM	23165	15RB#0	21.75	19.27	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#0	23.72	21.24	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#12	23.66	21.18	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#24	23.70	21.22	34.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	22.77	20.29	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	23.70	21.22	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#12	23.68	21.20	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#24	23.62	21.14	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	22.79	20.31	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	23.66	21.18	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#12	23.65	21.17	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#24	23.60	21.12	34.77	PASS



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Band12	5MHz	QPSK	23155	25RB#0	22.76	20.28	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#0	22.97	20.49	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#12	22.89	20.41	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#24	22.94	20.46	34.77	PASS
Band12	5MHz	16QAM	23035	25RB#0	21.82	19.34	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#0	22.94	20.46	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#12	22.98	20.50	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#24	22.92	20.44	34.77	PASS
Band12	5MHz	16QAM	23095	25RB#0	21.74	19.26	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#0	22.90	20.42	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#12	22.93	20.45	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#24	22.76	20.28	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	21.73	19.25	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#0	23.72	21.24	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#24	23.72	21.24	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#49	23.62	21.14	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	22.83	20.35	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	23.61	21.13	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	23.68	21.20	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	23.63	21.15	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	22.77	20.29	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	23.66	21.18	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#24	23.68	21.20	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#49	23.57	21.09	34.77	PASS
Band12	10MHz	QPSK	23130	50RB#0	22.77	20.29	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	22.91	20.43	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#24	22.92	20.44	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#49	22.86	20.38	34.77	PASS
Band12	10MHz	16QAM	23060	50RB#0	21.79	19.31	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#0	22.82	20.34	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#24	22.82	20.34	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#49	22.80	20.32	34.77	PASS
Band12	10MHz	16QAM	23095	50RB#0	21.79	19.31	34.77	PASS



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Band12	10MHz	16QAM	23130	1RB#0	22.93	20.45	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#24	23.00	20.52	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	22.86	20.38	34.77	PASS
Band12	10MHz	16QAM	23130	50RB#0	21.75	19.27	34.77	PASS



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## Peak-to-Average Ratio(CCDF)

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	10MHz	QPSK	23060	50RB#0	5.08	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.26	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.32	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	5.94	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	6.02	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	6.02	13	PASS



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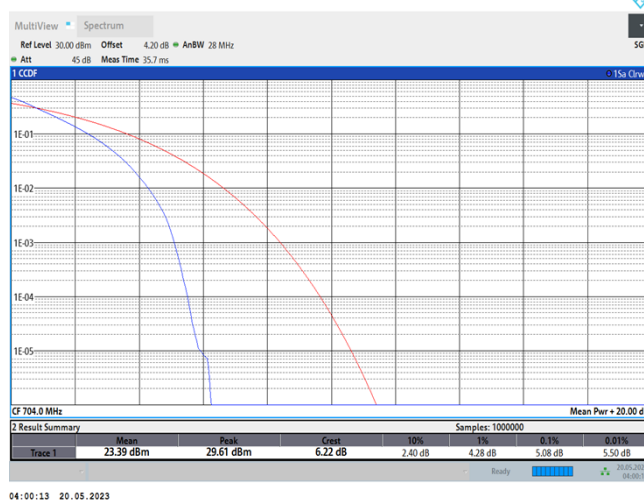
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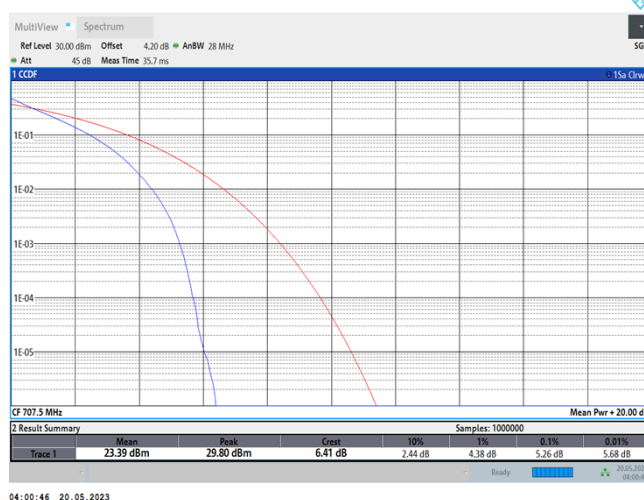
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### Test Graphs

Band12-10MHz-QPSK-23060-50RB#0



Band12-10MHz-QPSK-23095-50RB#0



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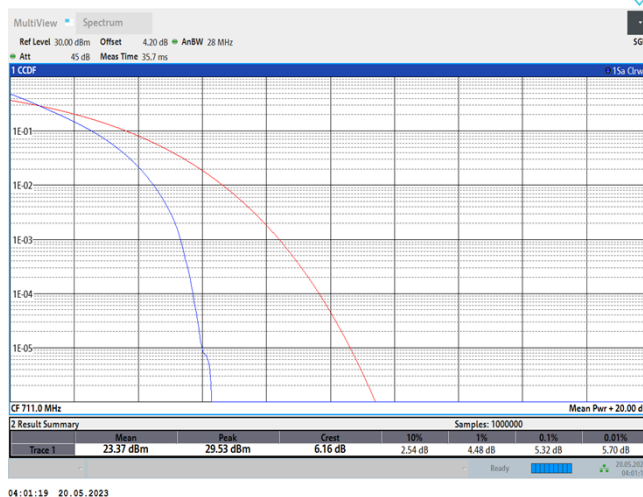
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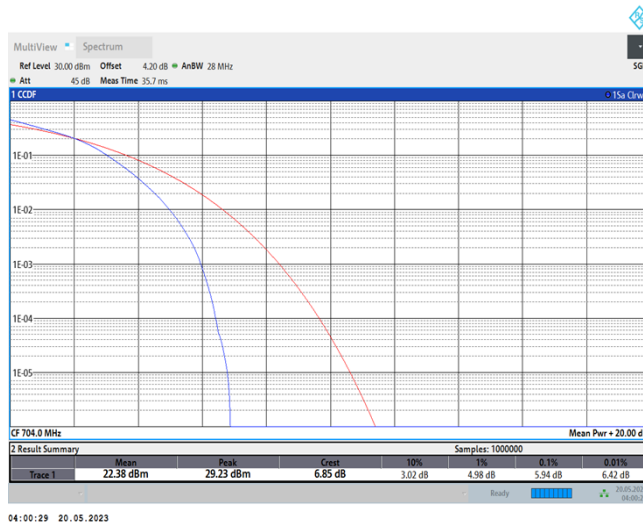
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### Band12-10MHz-QPSK-23130-50RB#0



### Band12-10MHz-16QAM-23060-50RB#0



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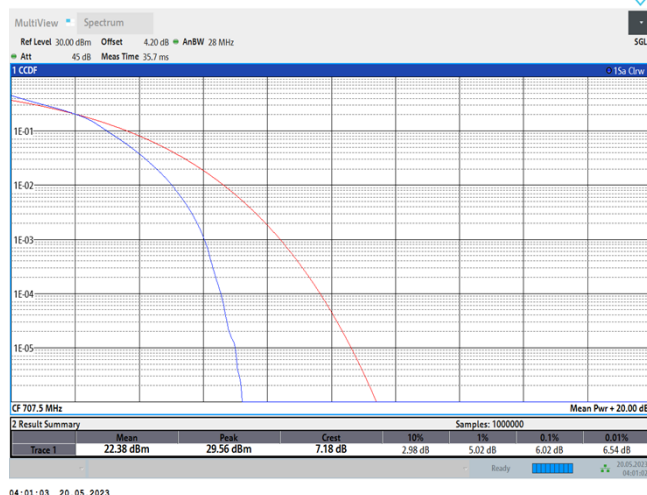


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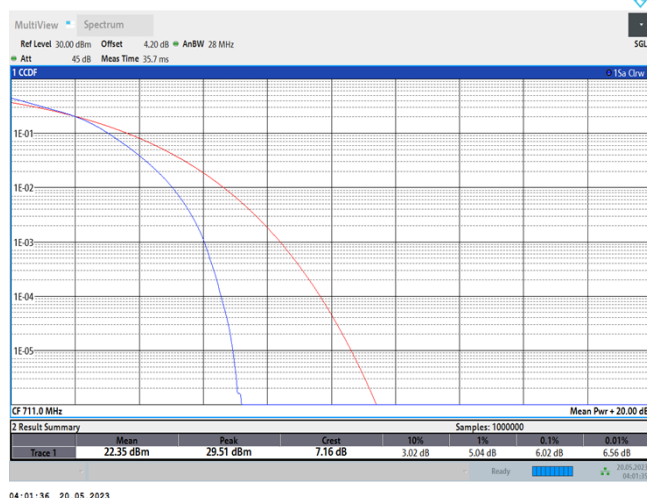
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### Band12-10MHz-16QAM-23095-50RB#0



### Band12-10MHz-16QAM-23130-50RB#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
Band12	1.4MHz	QPSK	23017	6RB#0	1.085	1.23	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.085	1.23	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.084	1.23	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.092	1.24	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.092	1.25	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.092	1.24	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.700	2.96	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.697	2.96	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.691	2.96	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.688	2.99	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.690	3.00	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.688	2.98	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.466	4.87	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.476	4.90	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.464	4.87	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.464	4.88	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.472	4.91	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.461	4.88	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.921	9.58	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.949	9.64	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.934	9.60	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.898	9.62	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.924	9.68	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.912	9.62	PASS



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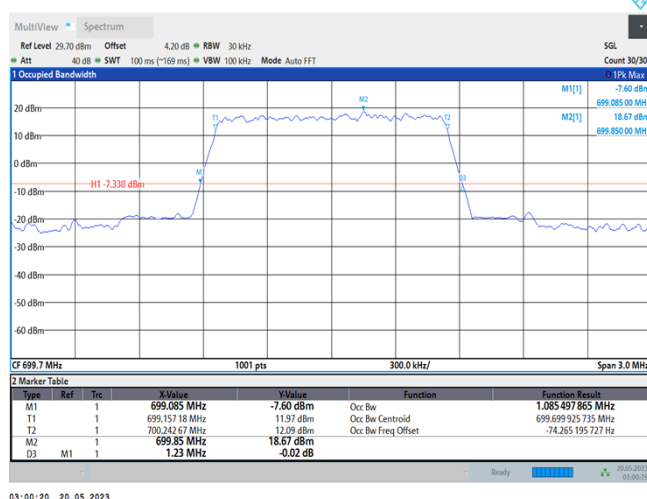
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### Test Graphs

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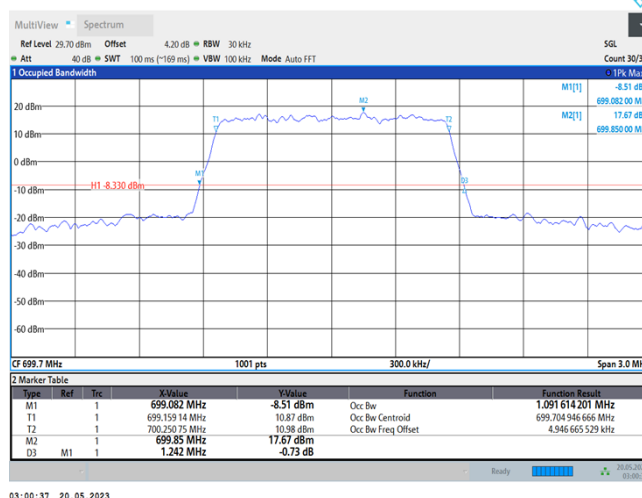
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### Band12-1.4MHz-QPSK-23173-6RB#0



### Band12-1.4MHz-16QAM-23017-6RB#0



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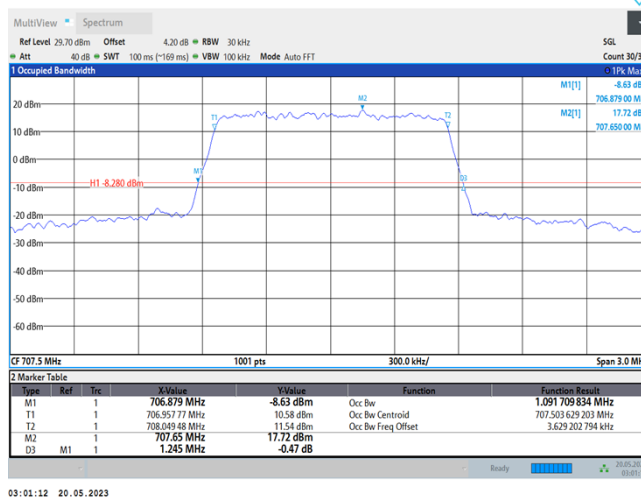
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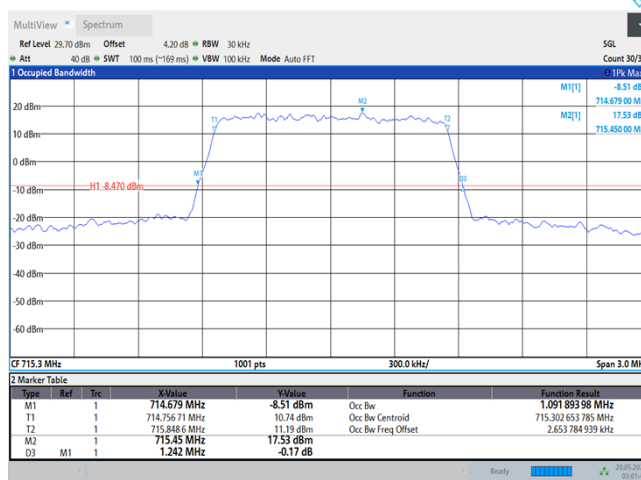
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### Band12-1.4MHz-16QAM-23173-6RB#0



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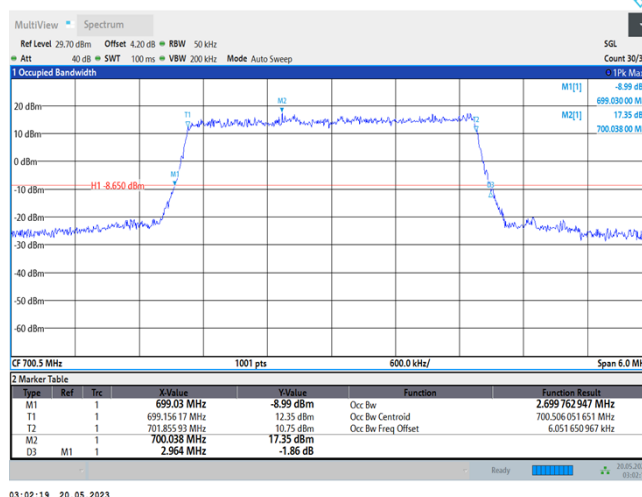
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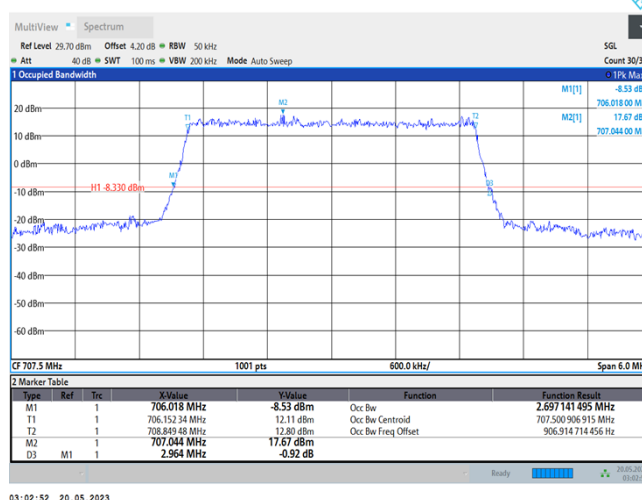


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### Band12-3MHz-QPSK-23025-15RB#0



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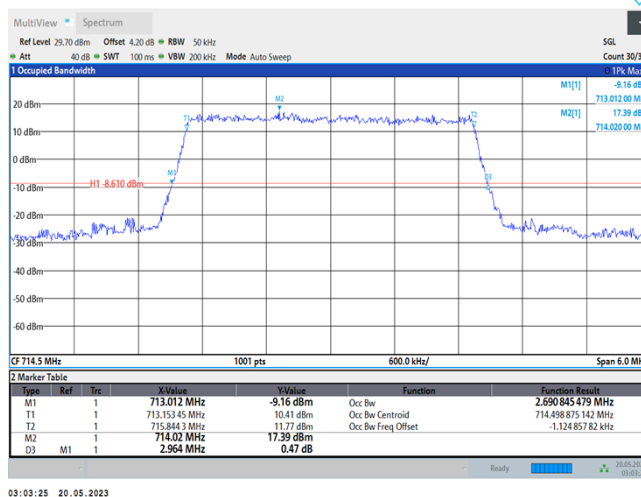
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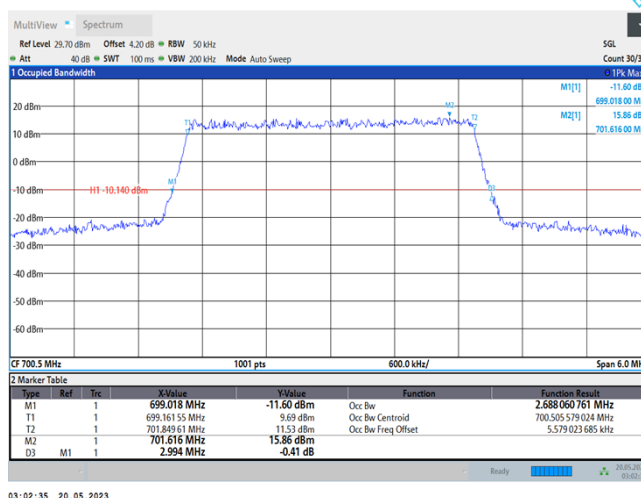
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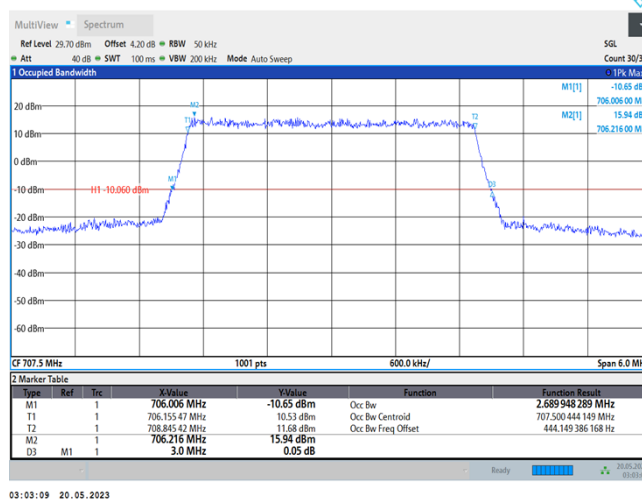
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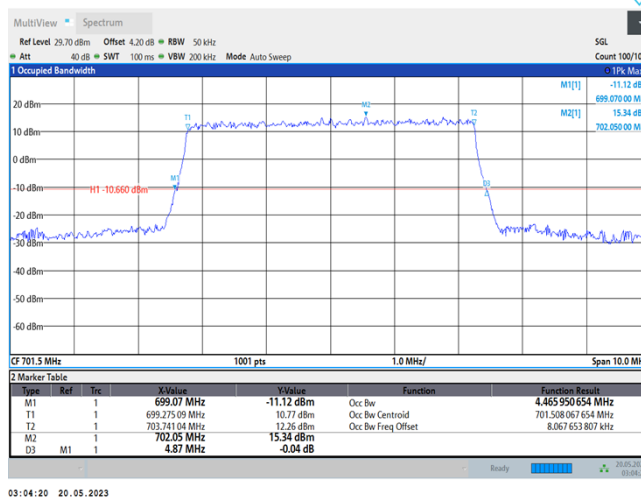


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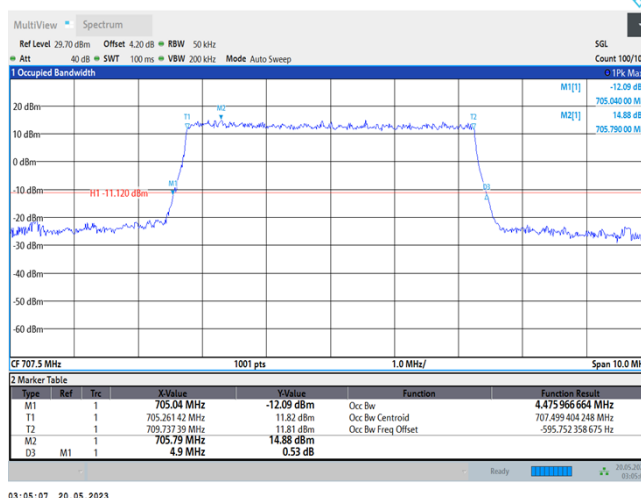


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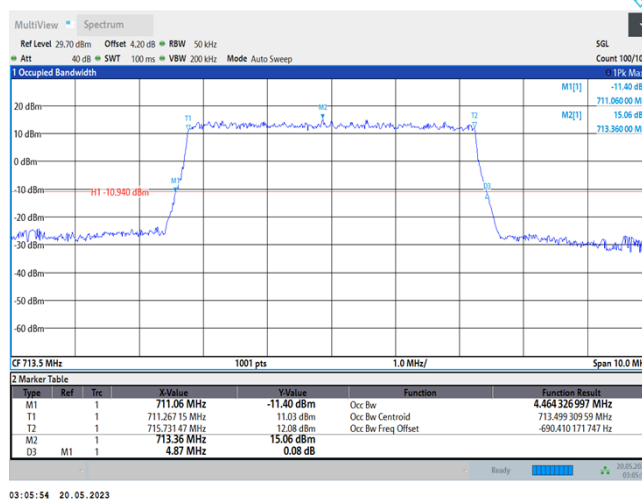
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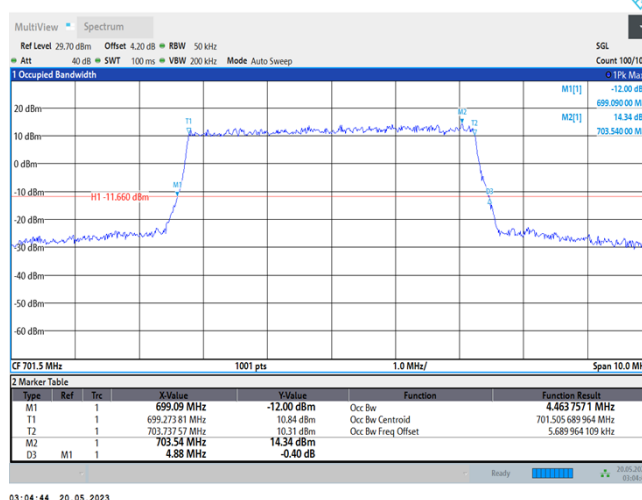
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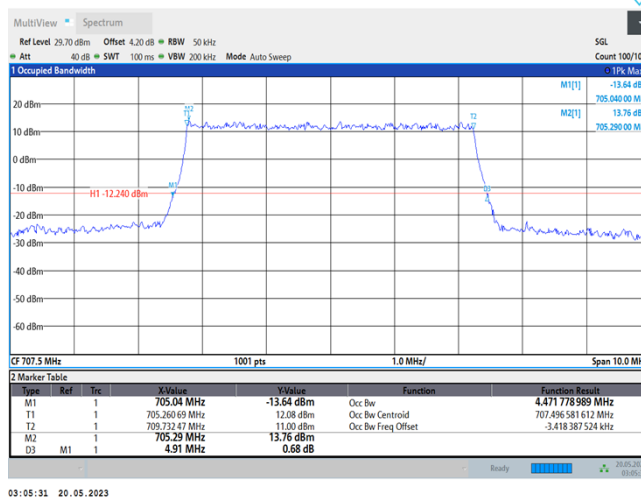
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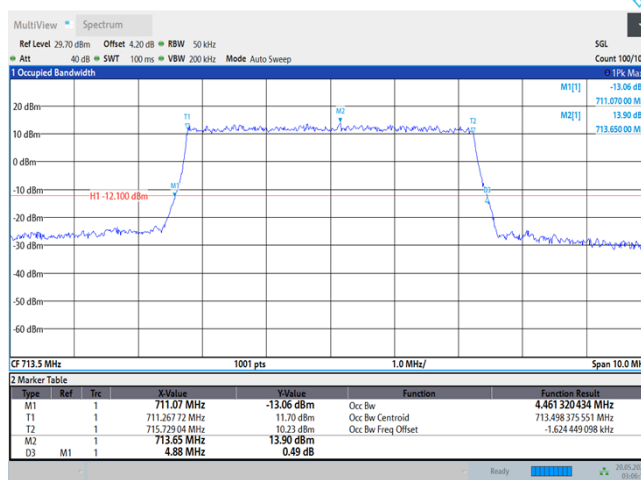
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### Band12-5MHz-16QAM-23155-25RB#0



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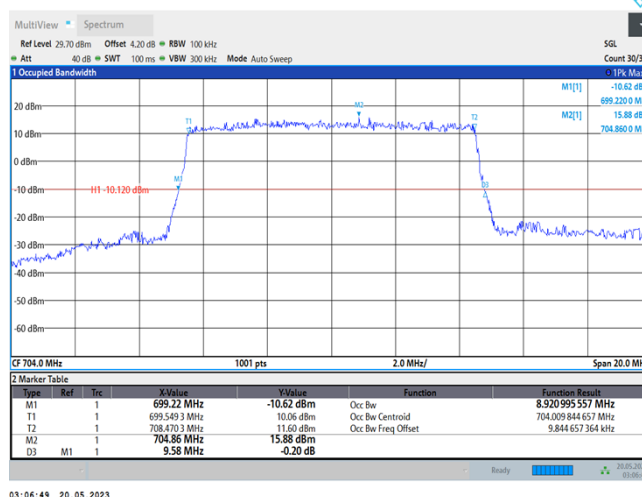
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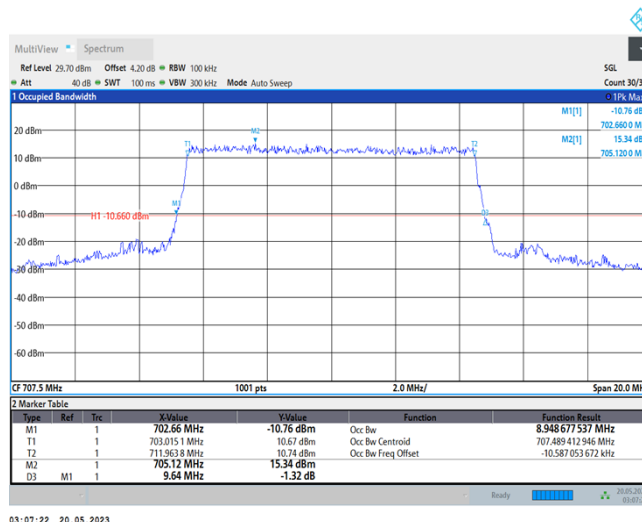
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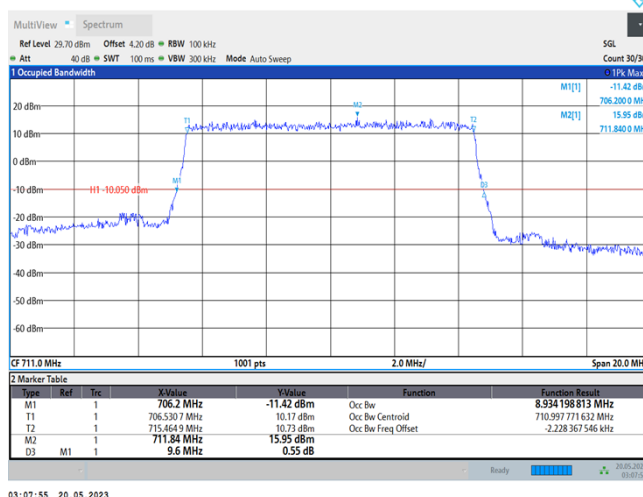
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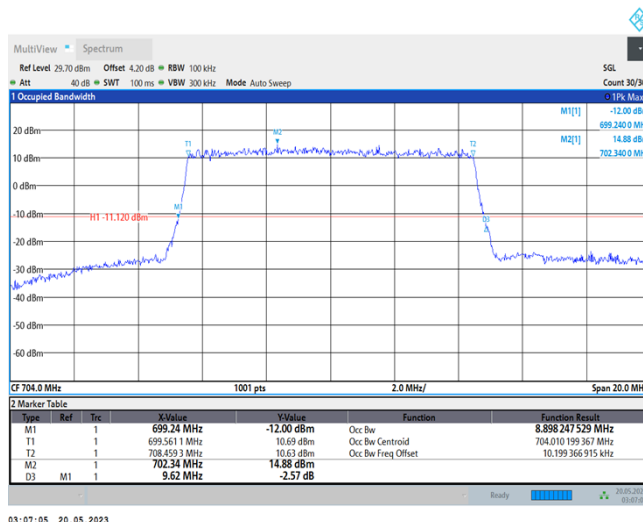
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### Band12-10MHz-QPSK-23130-50RB#0



### Band12-10MHz-16QAM-23060-50RB#0



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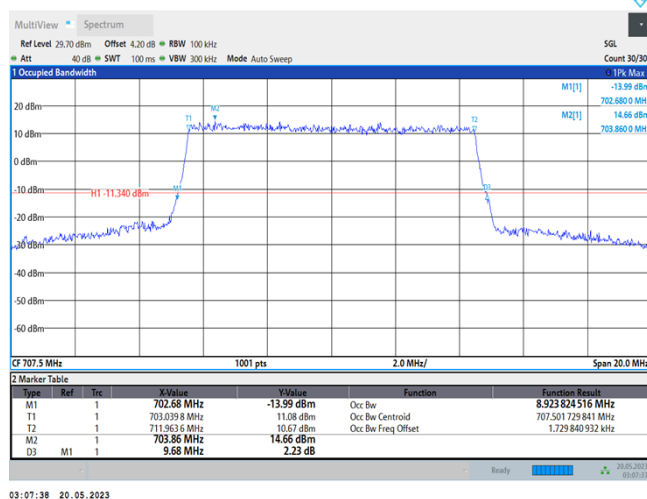
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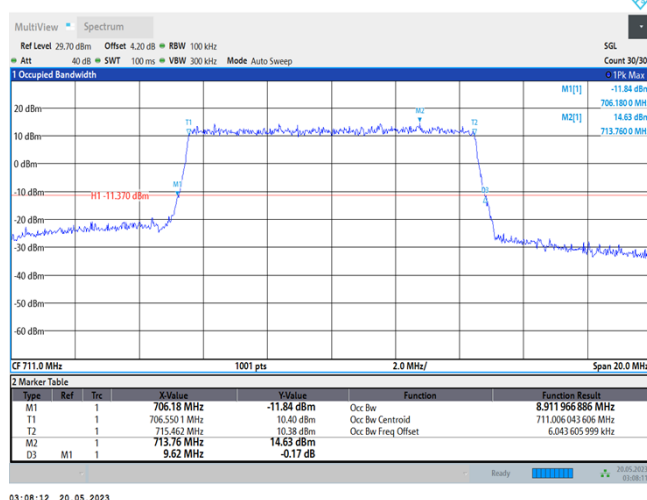
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### Band12-10MHz-16QAM-23095-50RB#0



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### Band12-10MHz-16QAM-23130-50RB#0



03:08:12 20.05.2023



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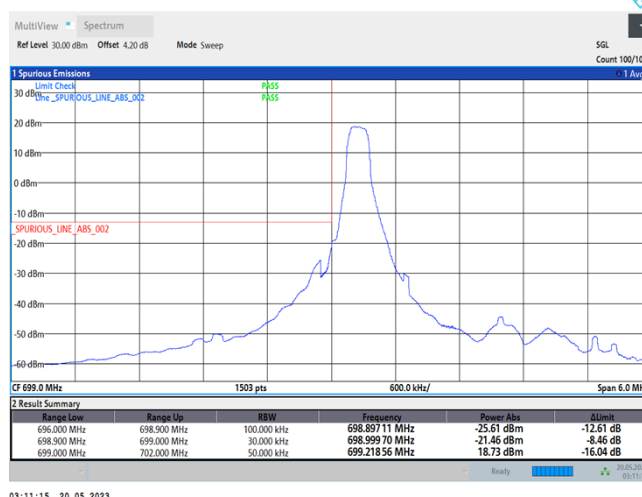
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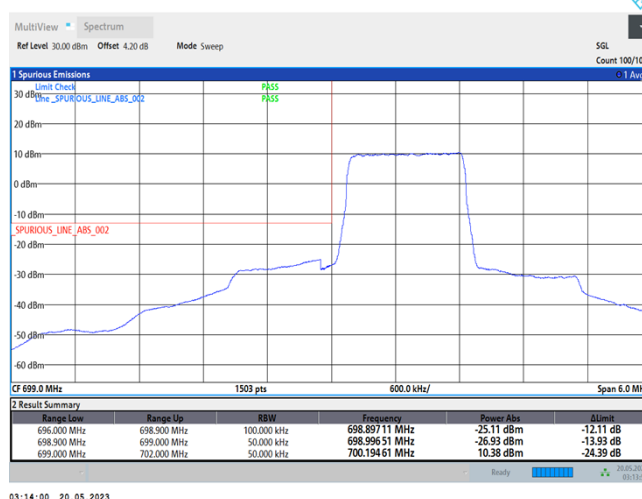
### Band Edge

### Test Graphs

Band12-1.4MHz-QPSK-23017-1RB#0



Band12-1.4MHz-QPSK-23017-6RB#0



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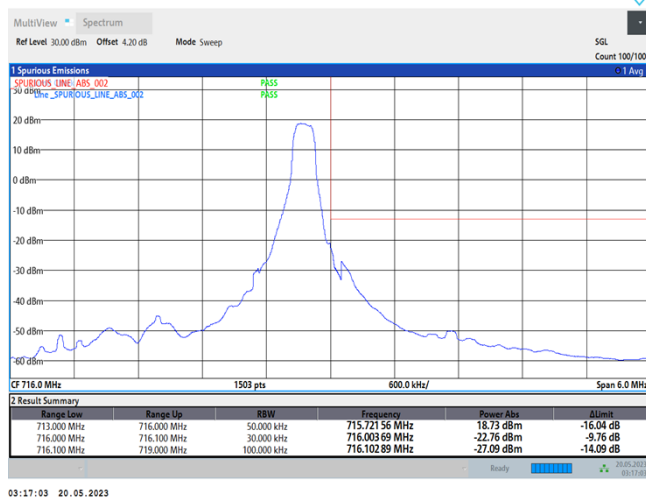


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### Band12-1.4MHz-QPSK-23173-1RB#5



### Band12-1.4MHz-QPSK-23173-6RB#0



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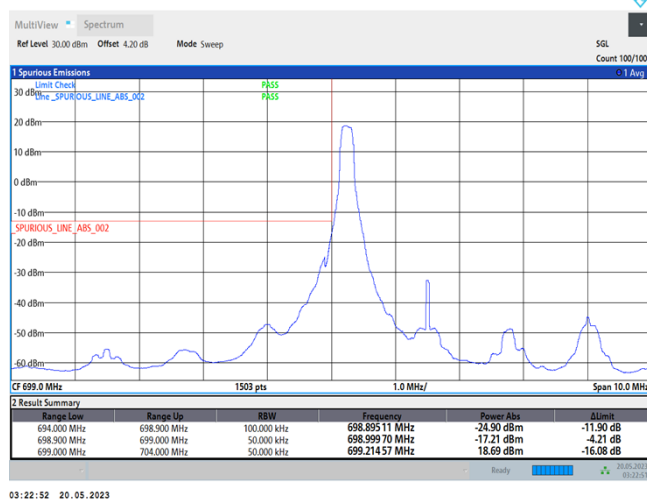
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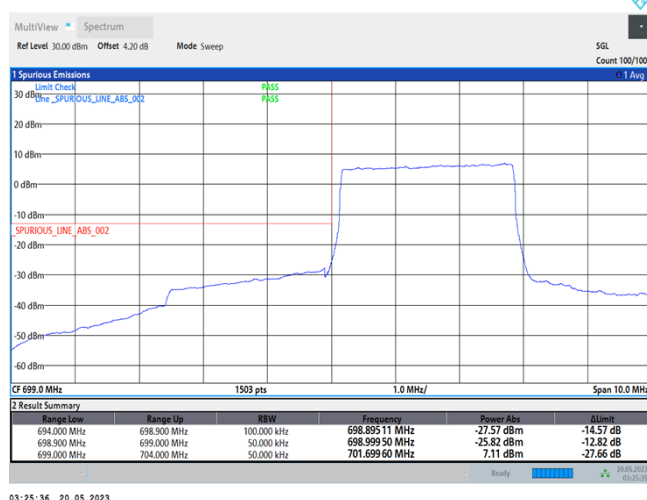
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### Band12-3MHz-QPSK-23025-1RB#0



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### Band12-3MHz-QPSK-23025-15RB#0



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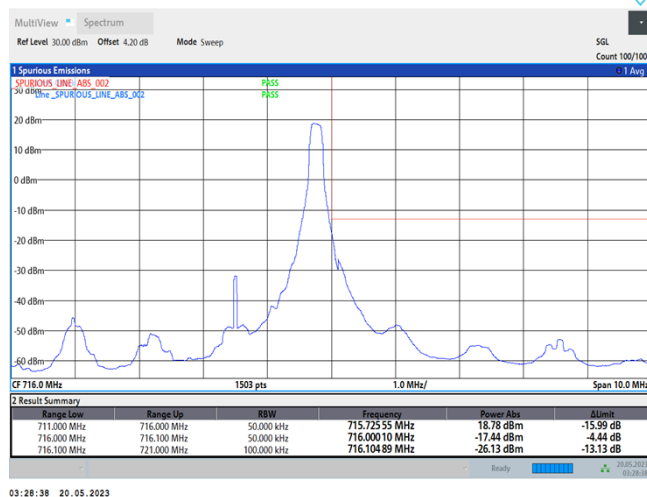
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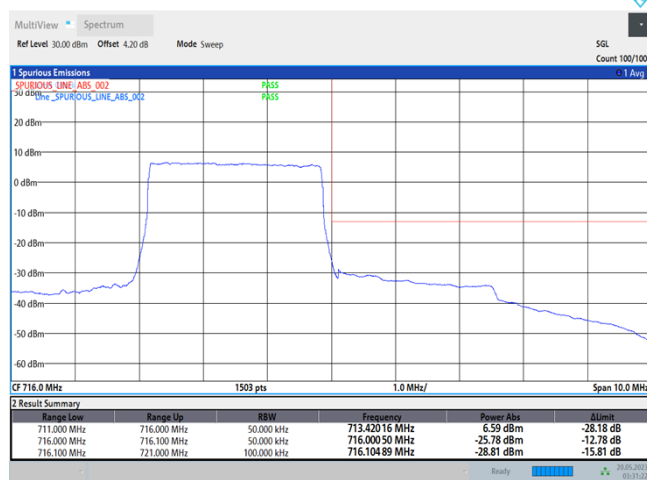
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### Band12-3MHz-QPSK-23165-15RB#0



03:31:23 20.05.2023



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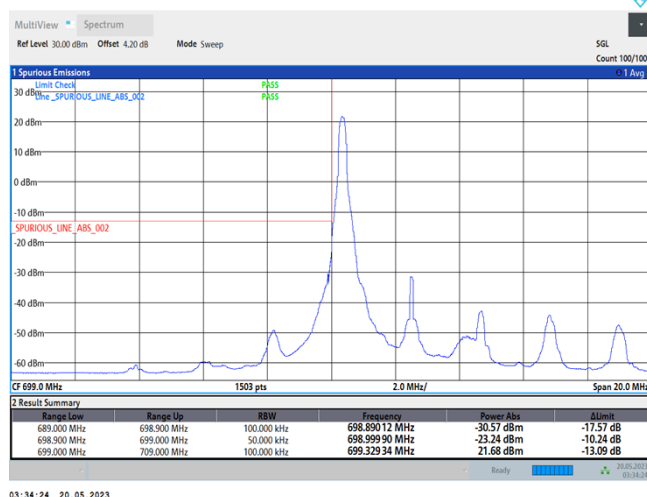
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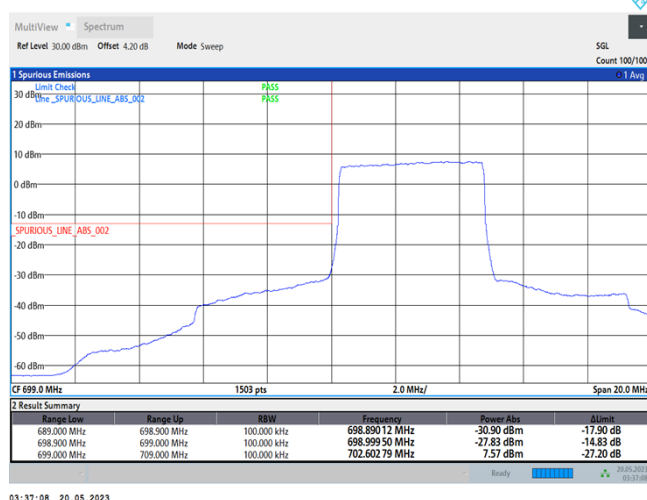
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### Band12-5MHz-QPSK-23035-1RB#0



### Band12-5MHz-QPSK-23035-25RB#0



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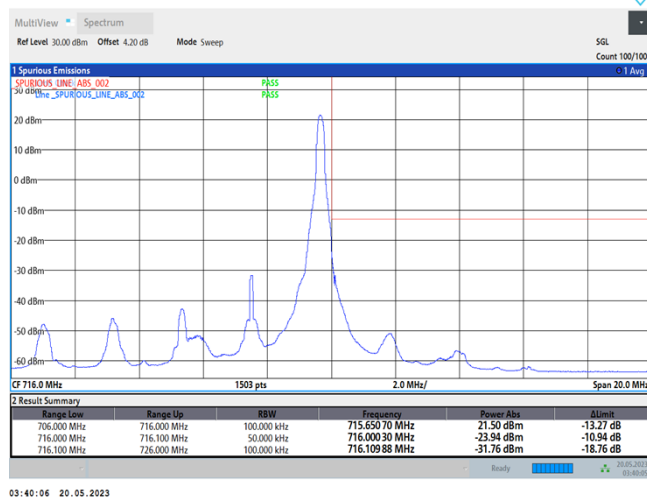
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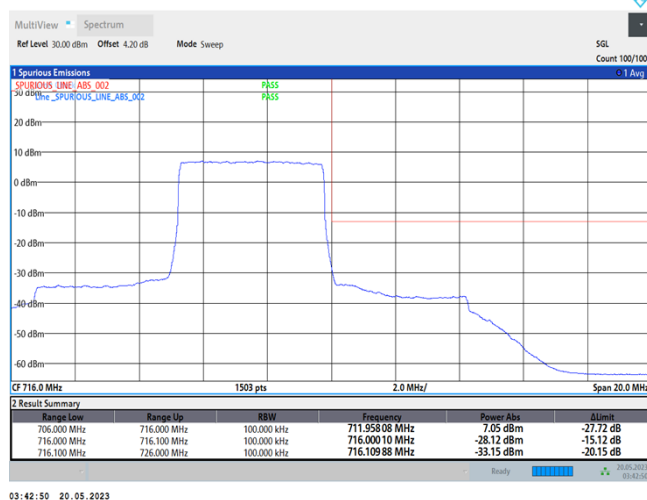
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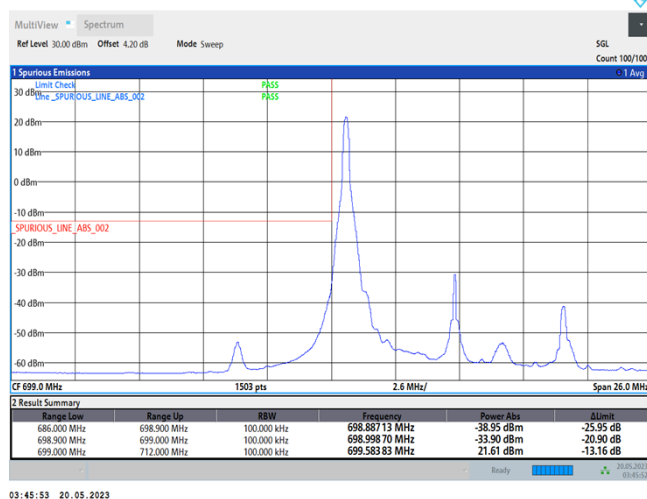


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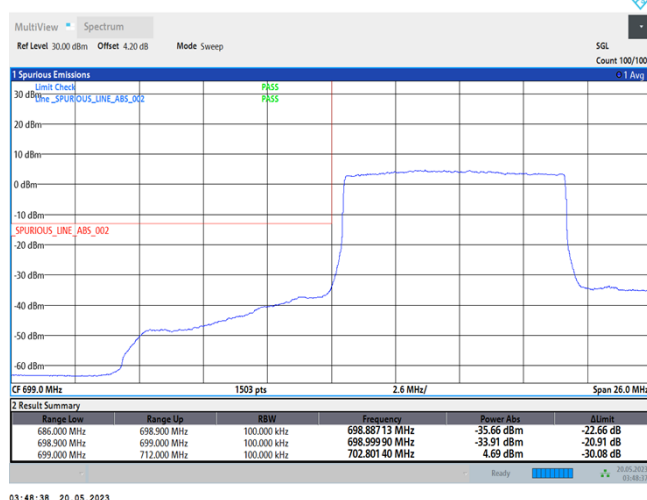
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### Band12-10MHz-QPSK-23060-1RB#0



### Band12-10MHz-QPSK-23060-50RB#0



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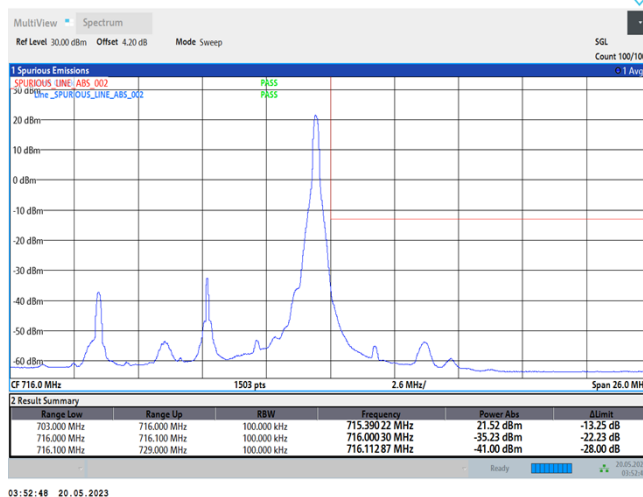
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### Band12-10MHz-QPSK-23130-1RB#49



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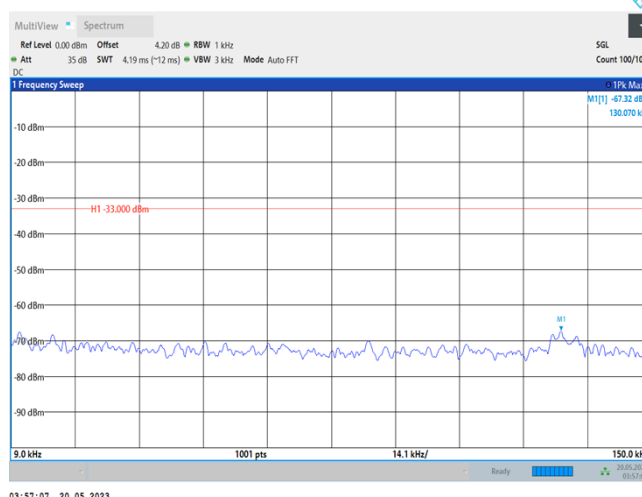
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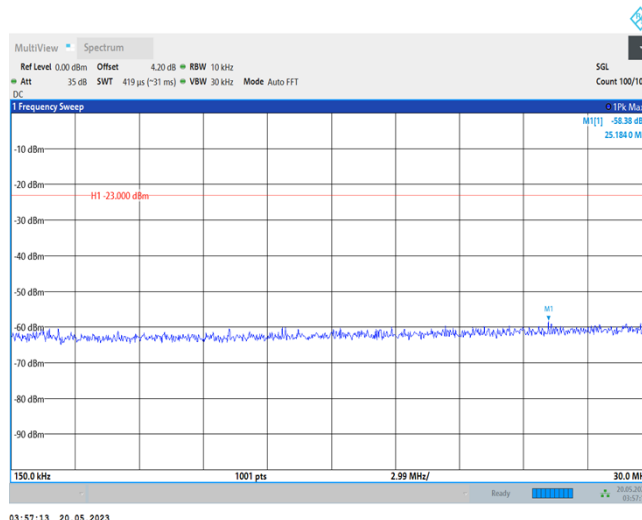
## Conducted Spurious Emission

### Test Graphs

Band12-10MHz-QPSK-23060-1RB#0-Range1:0.009~0.15MHz



Band12-10MHz-QPSK-23060-1RB#0-Range2:0.15~30MHz



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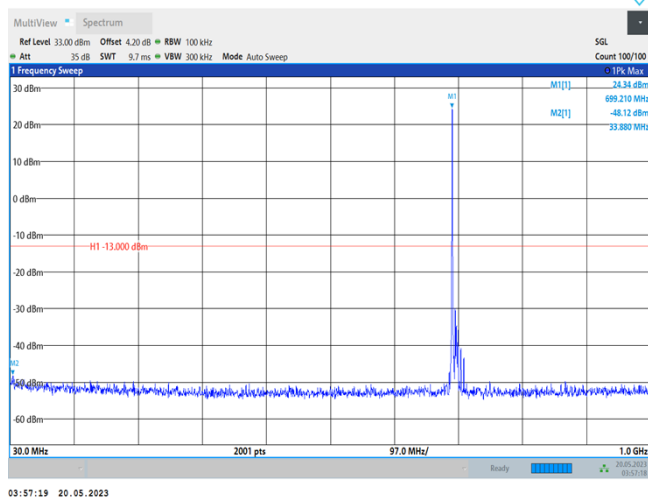
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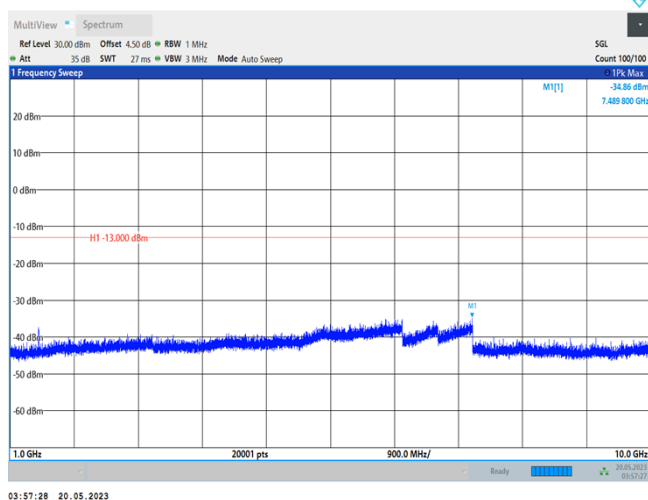
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### Band12-10MHz-QPSK-23060-1RB#0-Range3:30~1000MHz



### Band12-10MHz-QPSK-23060-1RB#0-Range4:1000~10000MHz



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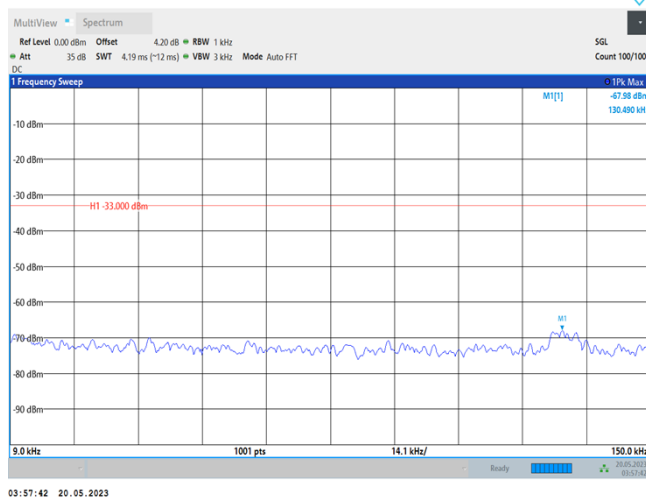
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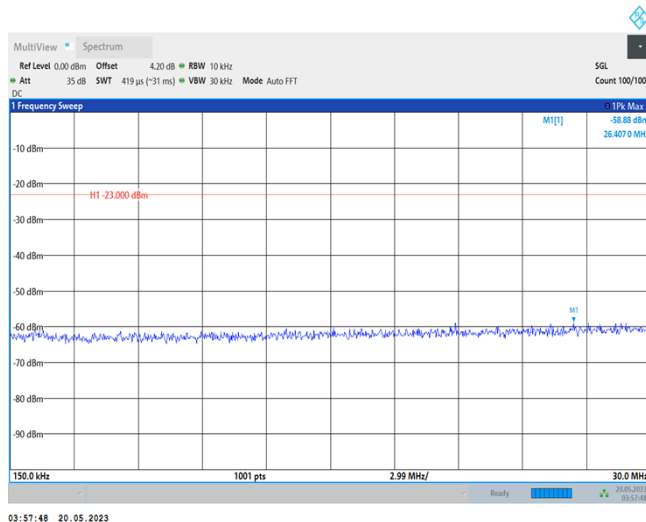
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### Band12-10MHz-QPSK-23095-1RB#0-Range1:0.009~0.15MHz



### Band12-10MHz-QPSK-23095-1RB#0-Range2:0.15~30MHz



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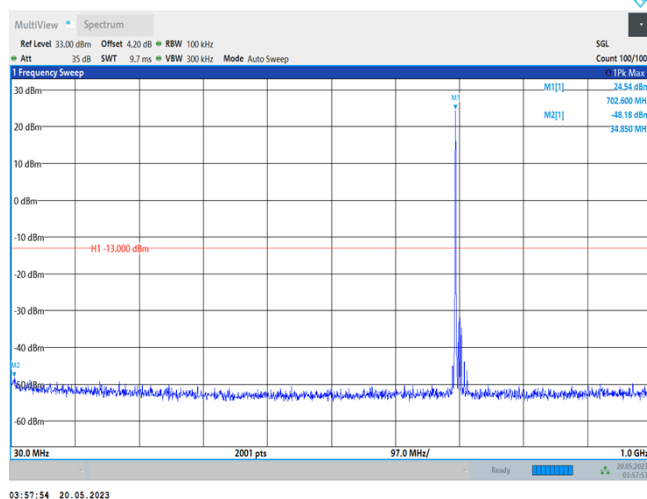


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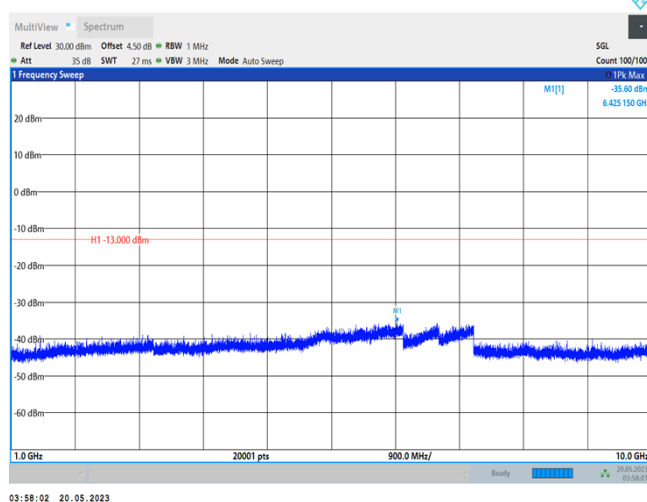
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### Band12-10MHz-QPSK-23095-1RB#0-Range3:30~1000MHz



### Band12-10MHz-QPSK-23095-1RB#0-Range4:1000~10000MHz



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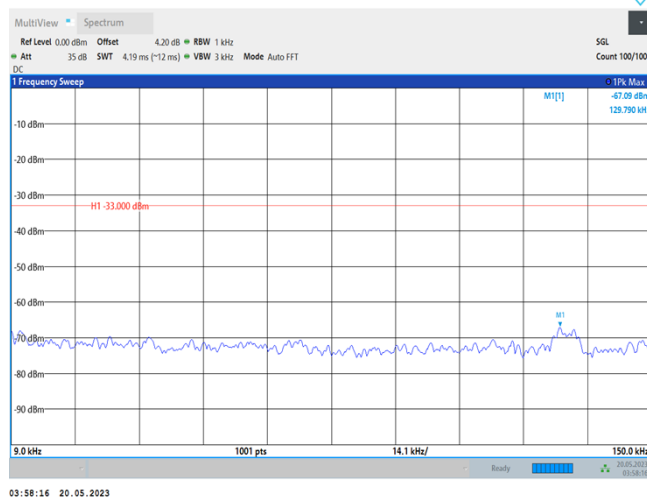
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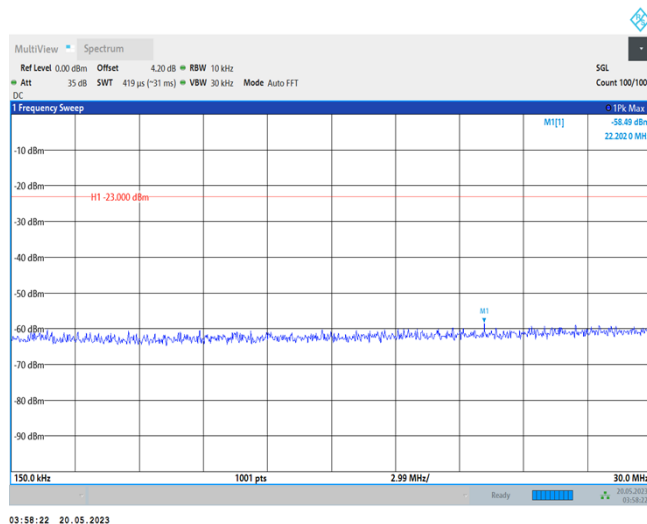
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### Band12-10MHz-QPSK-23130-1RB#0-Range1:0.009~0.15MHz



### Band12-10MHz-QPSK-23130-1RB#0-Range2:0.15~30MHz



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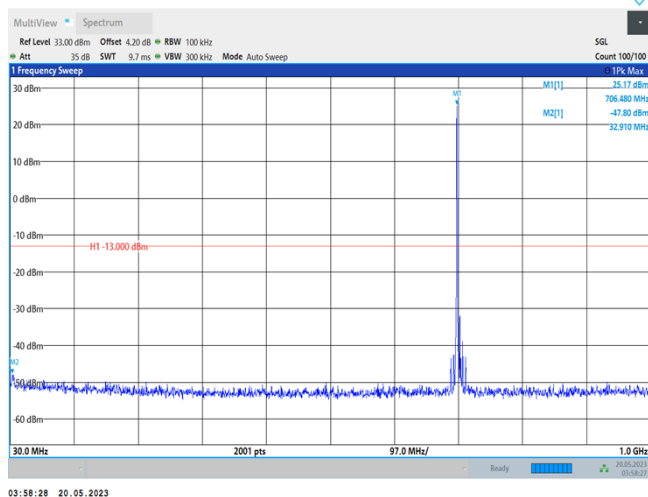
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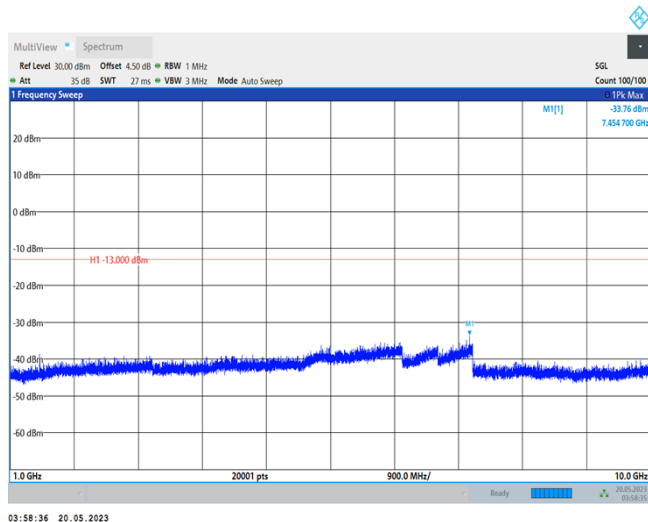
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## Band12-10MHz-QPSK-23130-1RB#0-Range3:30~1000MHz



## Band12-10MHz-QPSK-23130-1RB#0-Range4:1000~10000MHz



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**Field Strength of Spurious Radiation****Test Band = LTE Band 12\_10MHz\_ 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	1399.18	50.30	-48.73	25.40	-68.29	-13.00	55.29	196	9	Horizontal
2	2098.77	41.47	-47.88	27.10	-74.57	-13.00	61.57	254	255	Horizontal
3	2798.36	42.46	-46.69	28.91	-70.57	-13.00	57.57	142	255	Horizontal
4	3497.95	42.86	-46.05	29.40	-69.05	-13.00	56.05	109	105	Horizontal
5	4197.54	41.23	-45.12	30.92	-68.23	-13.00	55.23	255	229	Horizontal
6	4897.13	40.76	-45.14	32.35	-67.28	-13.00	54.28	263	45	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	1399.18	50.90	-48.73	25.40	-67.69	-13.00	54.69	296	102	Vertical
2	2098.77	43.73	-47.88	27.10	-72.31	-13.00	59.31	265	209	Vertical
3	2798.36	43.47	-46.69	28.91	-69.56	-13.00	56.56	241	357	Vertical
4	3497.95	42.67	-46.05	29.40	-69.24	-13.00	56.24	142	284	Vertical
5	4197.54	41.29	-45.12	30.92	-68.17	-13.00	55.17	263	43	Vertical
6	4897.13	40.38	-45.14	32.35	-67.66	-13.00	54.66	225	351	Vertical



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**Test Band = LTE Band 12\_10MHz\_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	1406.18	48.55	-48.71	25.41	-70.02	-13.00	57.02	265	355	Horizontal
2	2109.27	41.25	-47.87	27.12	-74.76	-13.00	61.76	295	360	Horizontal
3	2812.36	42.73	-46.70	28.96	-70.26	-13.00	57.26	284	192	Horizontal
4	3515.45	42.08	-46.03	29.44	-69.78	-13.00	56.78	142	42	Horizontal
5	4218.54	40.57	-45.11	30.95	-68.85	-13.00	55.85	254	87	Horizontal
6	4921.63	39.56	-45.12	32.41	-68.41	-13.00	55.41	177	192	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	1406.18	51.81	-48.71	25.41	-66.76	-13.00	53.76	296	166	Vertical
2	2109.27	40.84	-47.87	27.12	-75.17	-13.00	62.17	254	75	Vertical
3	2812.36	42.63	-46.70	28.96	-70.36	-13.00	57.36	142	106	Vertical
4	3515.45	42.24	-46.03	29.44	-69.62	-13.00	56.62	255	180	Vertical
5	4218.54	40.52	-45.11	30.95	-68.90	-13.00	55.90	263	166	Vertical
6	4921.63	40.15	-45.12	32.41	-67.82	-13.00	54.82	365	120	Vertical



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**Test Band = LTE Band 12\_10MHz\_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	1413.18	52.63	-48.70	25.41	-65.91	-13.00	52.91	196	360	Horizontal
2	2119.77	42.03	-47.85	27.14	-73.94	-13.00	60.94	265	359	Horizontal
3	2826.36	41.86	-46.71	29.01	-71.10	-13.00	58.10	284	14	Horizontal
4	3532.95	41.83	-46.01	29.48	-69.96	-13.00	56.96	142	360	Horizontal
5	4239.54	40.65	-45.11	30.98	-68.74	-13.00	55.74	263	343	Horizontal
6	4946.13	39.61	-45.08	32.47	-68.26	-13.00	55.26	228	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	1413.18	49.70	-48.70	25.41	-68.84	-13.00	55.84	296	0	Vertical
2	2119.77	42.08	-47.85	27.14	-73.89	-13.00	60.89	265	286	Vertical
3	2826.36	43.06	-46.71	29.01	-69.90	-13.00	56.90	284	286	Vertical
4	3532.95	41.61	-46.01	29.48	-70.18	-13.00	57.18	142	181	Vertical
5	4239.54	41.57	-45.11	30.98	-67.82	-13.00	54.82	263	1	Vertical
6	4946.13	39.72	-45.08	32.47	-68.15	-13.00	55.15	228	135	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
Band12	10MHz	QPSK	23095	50RB#0	VL	NT	-0.40	-0.000565	PASS
Band12	10MHz	QPSK	23095	50RB#0	VN	NT	-4.00	-0.005654	PASS
Band12	10MHz	QPSK	23095	50RB#0	VH	NT	2.40	0.003392	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band12	10MHz	QPSK	23095	50RB#0	NV	-30	-1.20	-0.001696	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-20	-5.10	-0.007208	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-10	-3.30	-0.004664	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	0	-1.00	-0.001413	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	10	-3.90	-0.005512	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	20	-3.40	-0.004806	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	30	-2.10	-0.002968	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	40	-5.70	-0.008057	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	50	-4.00	-0.005654	PASS

---End of Attachment---



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