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Appendix B.6

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	22.57	20.57	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	22.66	20.66	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	22.64	20.64	34.77	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	21.64	19.64	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	22.57	20.57	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	22.64	20.64	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	22.57	20.57	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	21.62	19.62	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	22.55	20.55	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	22.69	20.69	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	22.52	20.52	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	21.65	19.65	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	21.75	19.75	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	21.94	19.94	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	21.80	19.80	34.77	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	20.74	18.74	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	21.72	19.72	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	21.88	19.88	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	21.65	19.65	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	20.49	18.49	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	21.48	19.48	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	21.55	19.55	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	21.42	19.42	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	20.66	18.66	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	22.58	20.58	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#8	22.62	20.62	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	22.69	20.69	34.77	PASS



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Band12	3MHz	QPSK	23025	15RB#0	21.61	19.61	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	22.60	20.60	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#8	22.63	20.63	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	22.56	20.56	34.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	21.55	19.55	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	22.58	20.58	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#8	22.62	20.62	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#14	22.56	20.56	34.77	PASS
Band12	3MHz	QPSK	23165	15RB#0	21.54	19.54	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#0	21.81	19.81	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#8	21.84	19.84	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	21.80	19.80	34.77	PASS
Band12	3MHz	16QAM	23025	15RB#0	20.64	18.64	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#0	21.78	19.78	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#8	21.73	19.73	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#14	21.70	19.70	34.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	20.48	18.48	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#0	21.45	19.45	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#8	21.56	19.56	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#14	21.54	19.54	34.77	PASS
Band12	3MHz	16QAM	23165	15RB#0	20.51	18.51	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#0	22.59	20.59	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#12	22.71	20.71	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#24	22.59	20.59	34.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	21.74	19.74	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	22.59	20.59	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#12	22.64	20.64	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#24	22.55	20.55	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	21.65	19.65	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	22.54	20.54	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#12	22.70	20.70	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#24	22.55	20.55	34.77	PASS
Band12	5MHz	QPSK	23155	25RB#0	21.52	19.52	34.77	PASS



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Band12	5MHz	16QAM	23035	1RB#0	21.63	19.63	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#12	21.74	19.74	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#24	21.63	19.63	34.77	PASS
Band12	5MHz	16QAM	23035	25RB#0	20.75	18.75	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#0	21.76	19.76	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#12	21.85	19.85	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#24	21.75	19.75	34.77	PASS
Band12	5MHz	16QAM	23095	25RB#0	20.62	18.62	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#0	21.55	19.55	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#12	21.71	19.71	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#24	21.62	19.62	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	20.56	18.56	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#0	22.56	20.56	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#24	22.61	20.61	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#49	22.60	20.60	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	21.82	19.82	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	22.58	20.58	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	22.61	20.61	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	22.52	20.52	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	21.75	19.75	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	22.56	20.56	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#24	22.68	20.68	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#49	22.59	20.59	34.77	PASS
Band12	10MHz	QPSK	23130	50RB#0	21.54	19.54	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	21.77	19.77	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#24	21.90	19.90	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#49	21.78	19.78	34.77	PASS
Band12	10MHz	16QAM	23060	50RB#0	20.79	18.79	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#0	21.73	19.73	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#24	21.84	19.84	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#49	21.72	19.72	34.77	PASS
Band12	10MHz	16QAM	23095	50RB#0	20.77	18.77	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#0	21.44	19.44	34.77	PASS



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Band12	10MHz	16QAM	23130	1RB#24	21.66	19.66	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	21.55	19.55	34.77	PASS
Band12	10MHz	16QAM	23130	50RB#0	20.54	18.54	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	5.62	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	6.42	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.46	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	6.42	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	6.36	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	6.28	13	PASS



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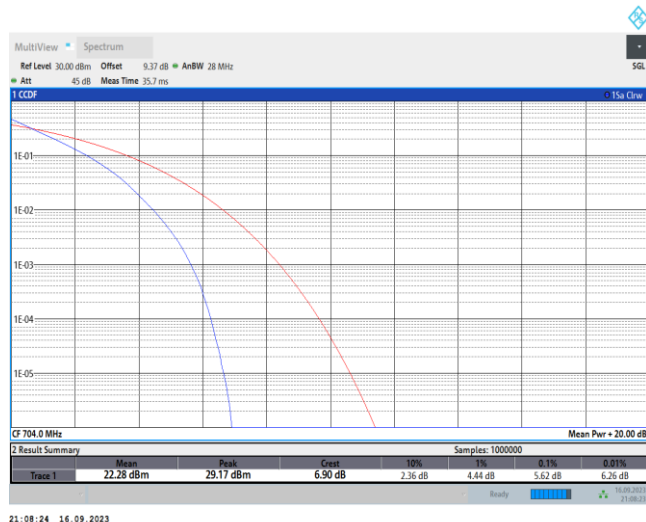
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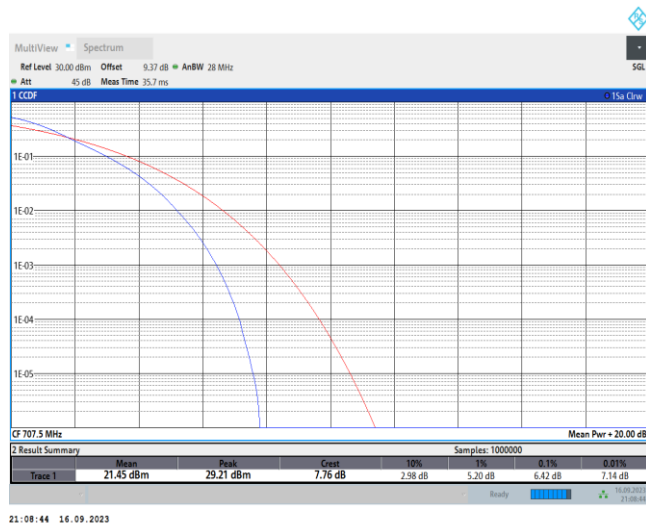
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Test Graphs

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



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



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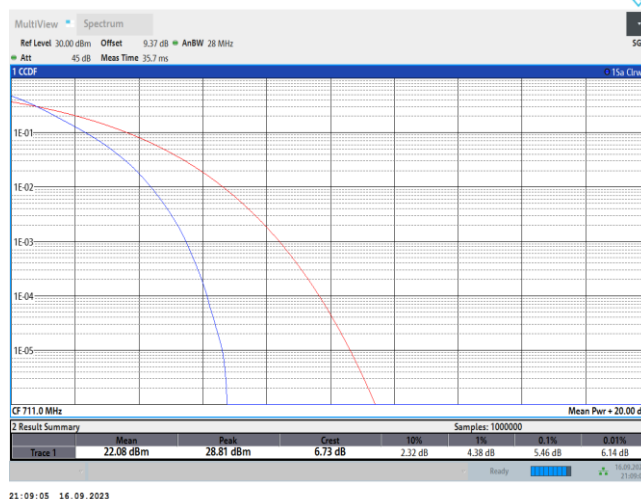
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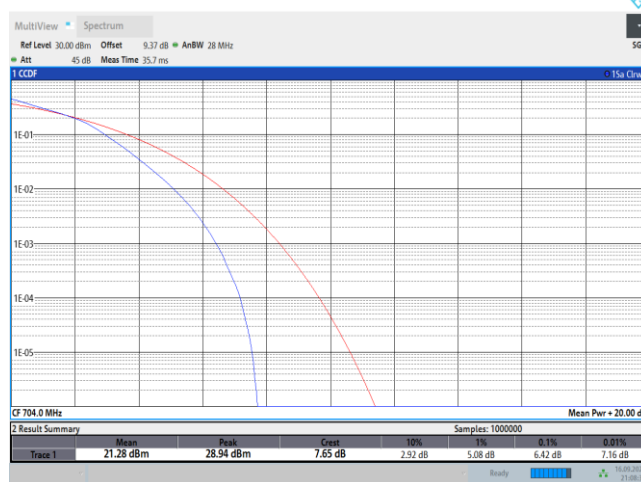
Page: 8 of 40

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



21:09:05 16.09.2023

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



21:08:33 16.09.2023



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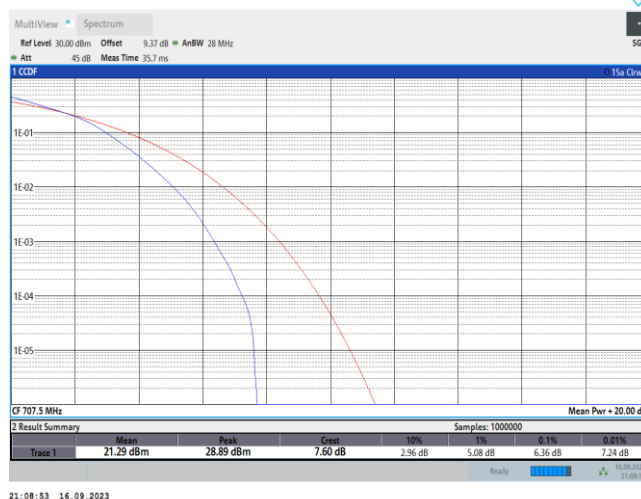
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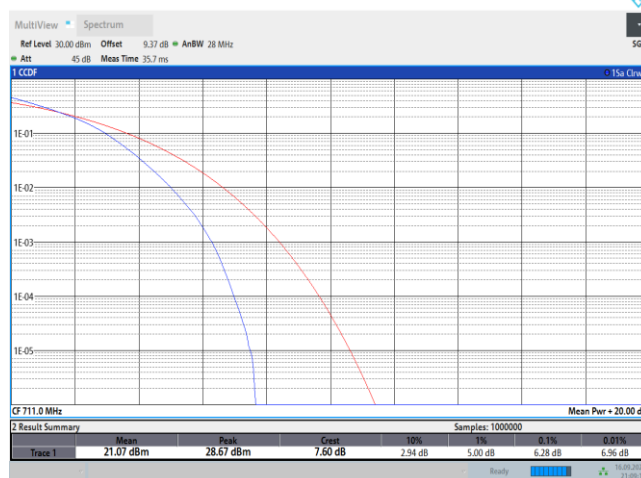
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Band12-10MHz-16QAM-23095-50RB#0



21:08:53 16.09.2023

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



21:09:14 16.09.2023



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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	1.087	1.28	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.085	1.28	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.086	1.28	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.099	1.31	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.098	1.31	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.098	1.31	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.739	3.01	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.735	3.04	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.734	3.04	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.722	3.17	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.719	3.04	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.719	3.03	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.48	4.97	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.484	4.98	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.481	4.96	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.485	4.98	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.484	4.99	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.48	4.96	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.975	9.62	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.936	9.64	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.929	9.64	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.907	9.60	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.908	9.58	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.917	9.60	PASS



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Test Graphs

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Band12-1.4MHz-QPSK-23095-6RB#0



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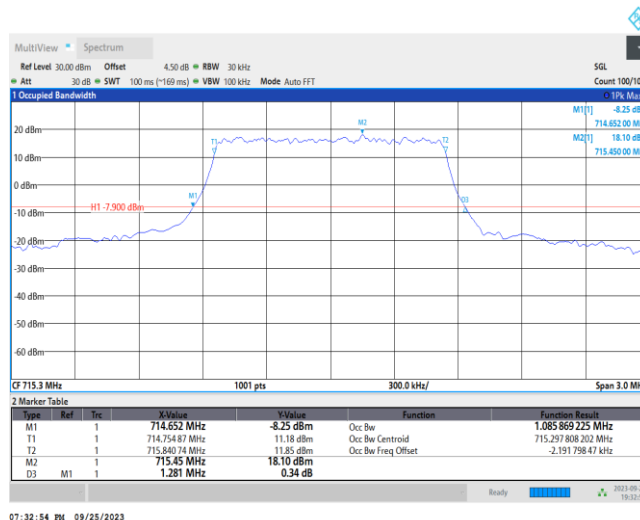


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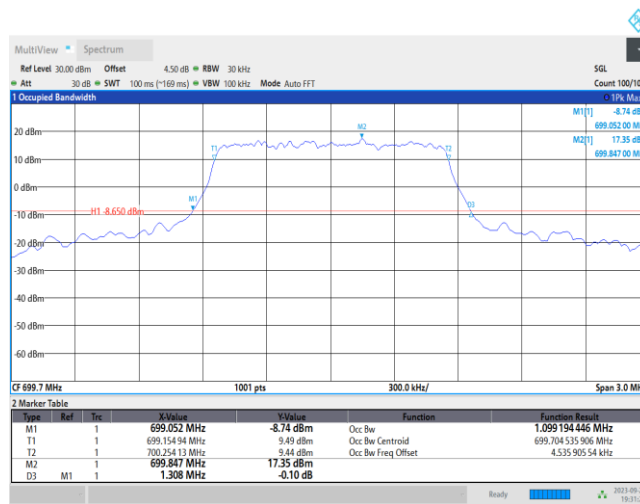
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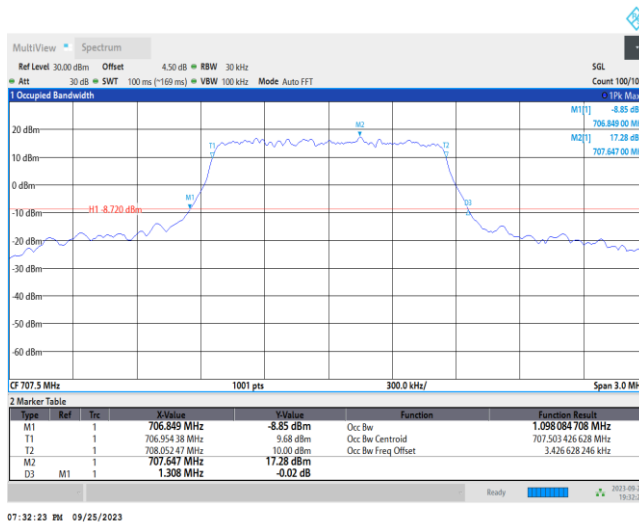
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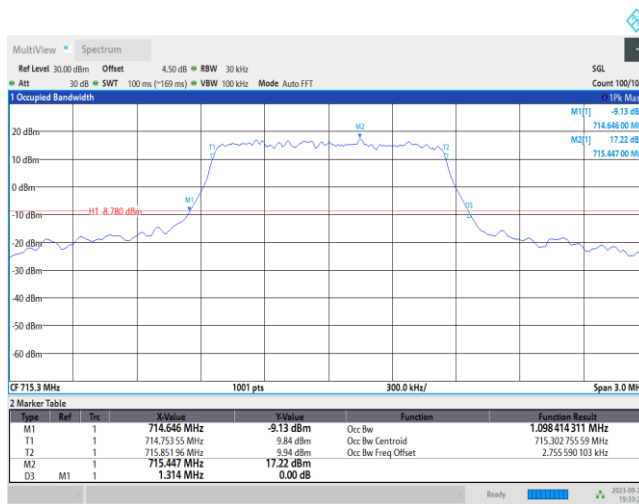
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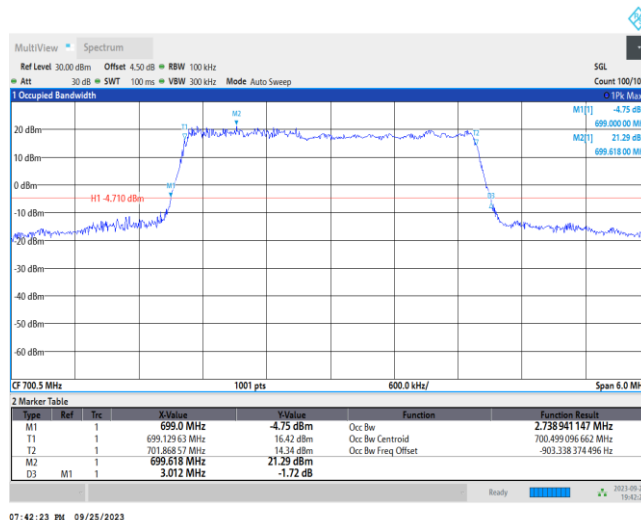
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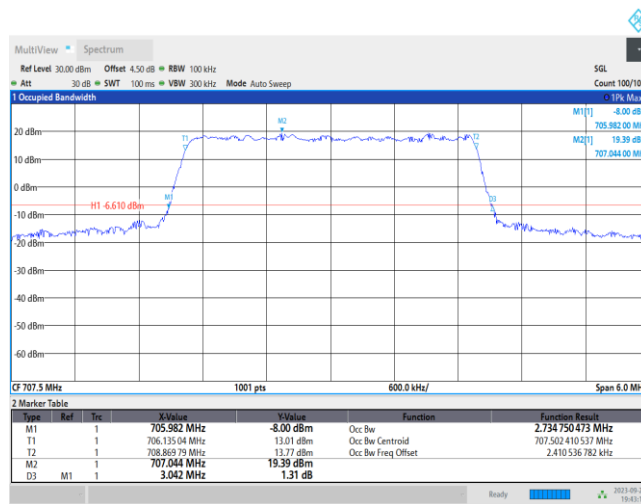
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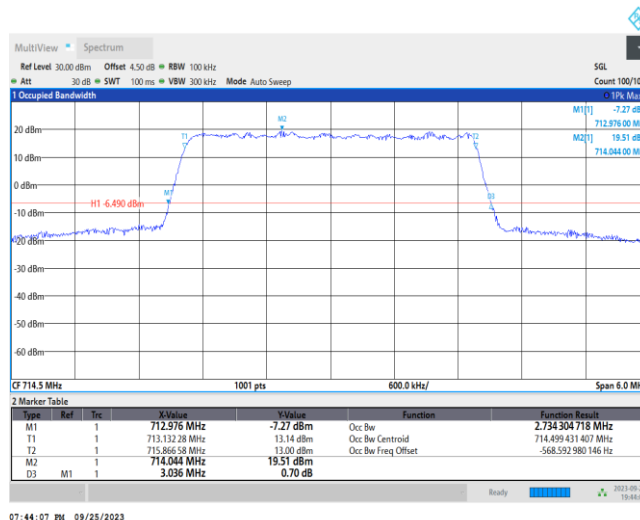
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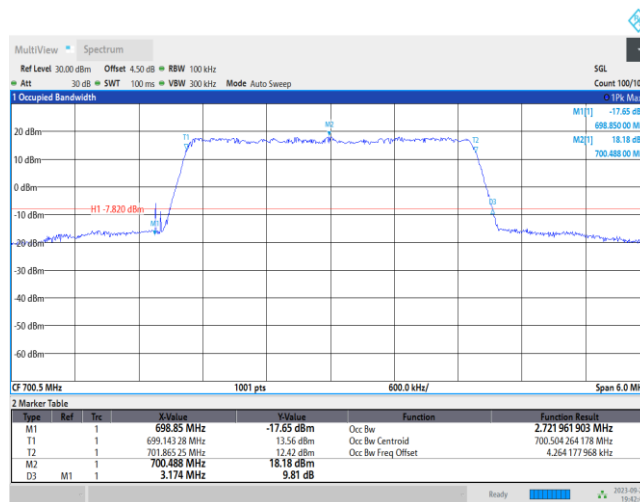
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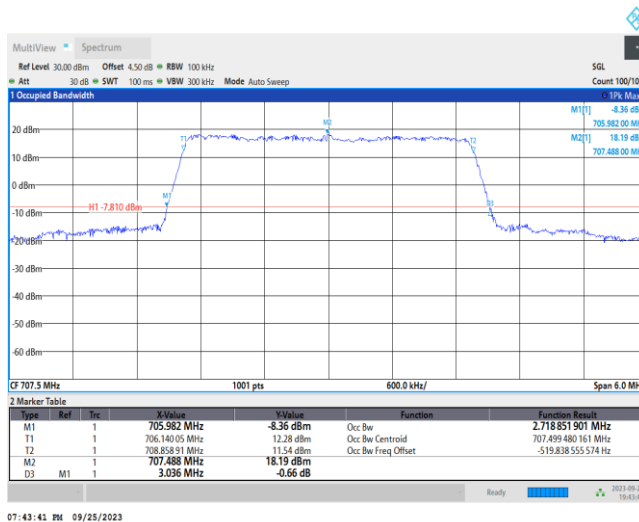
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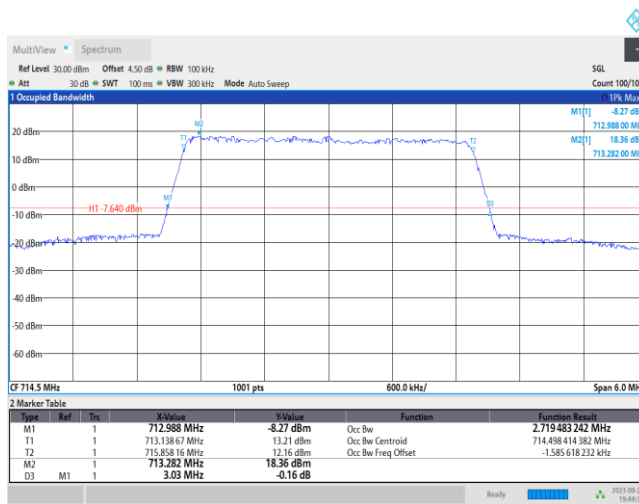
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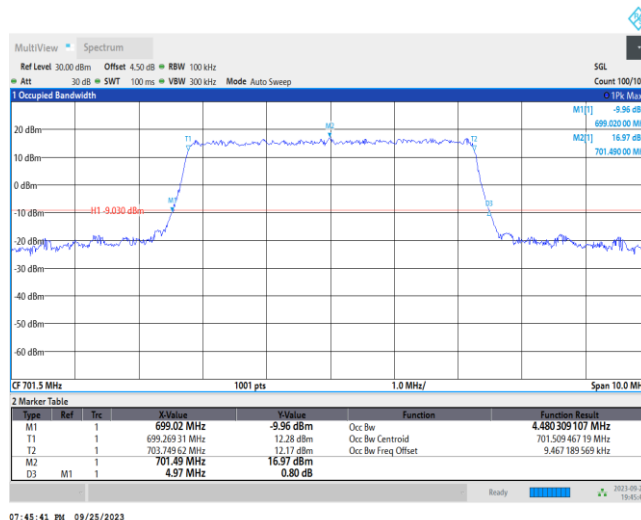
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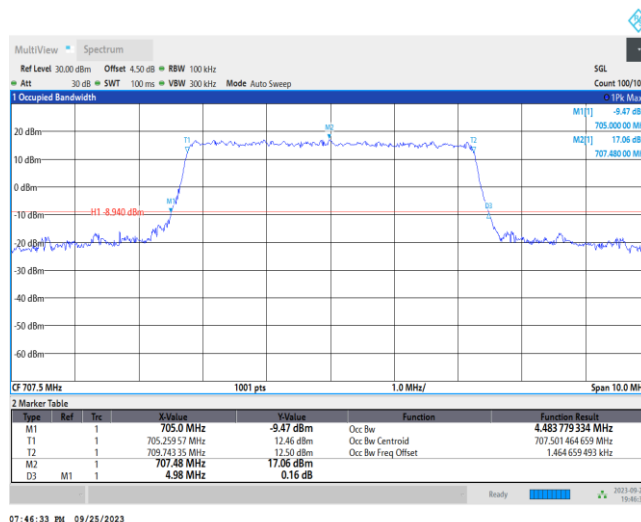
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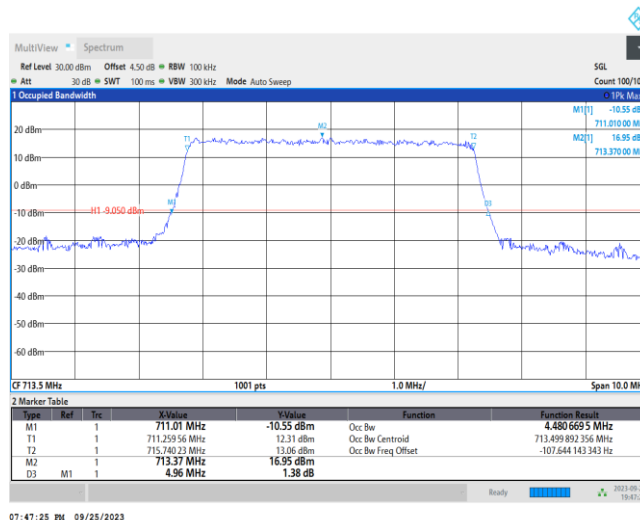
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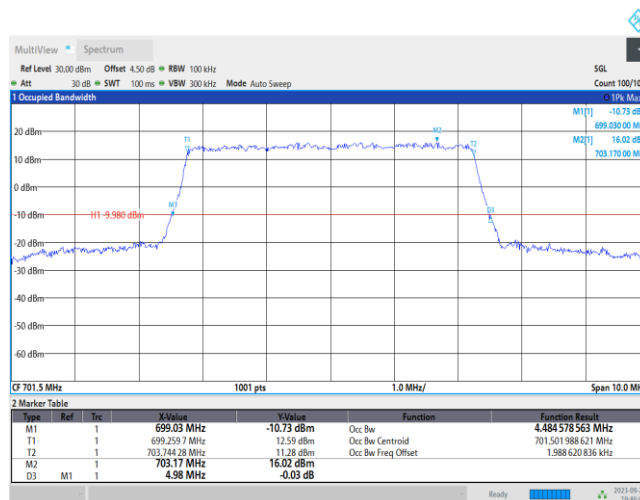
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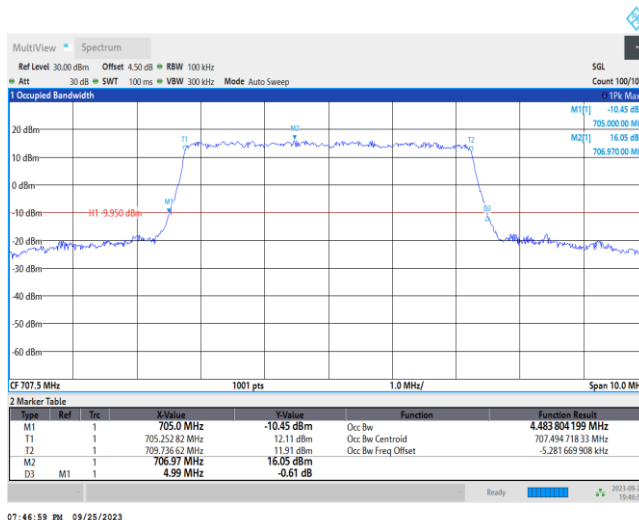
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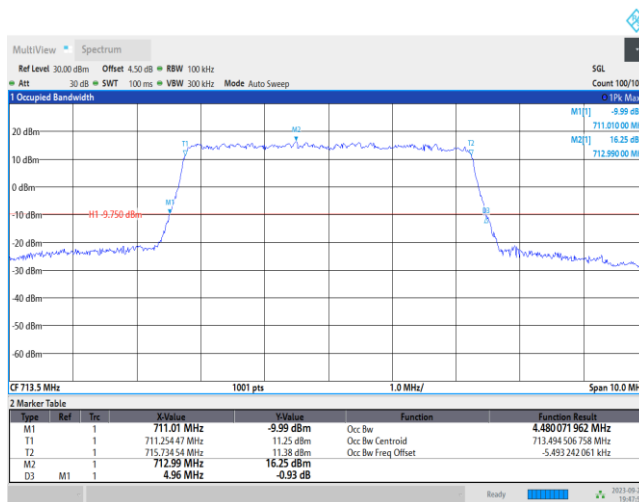
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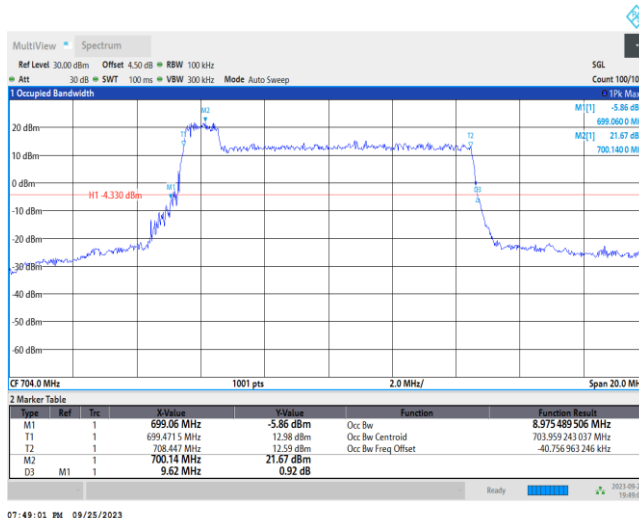
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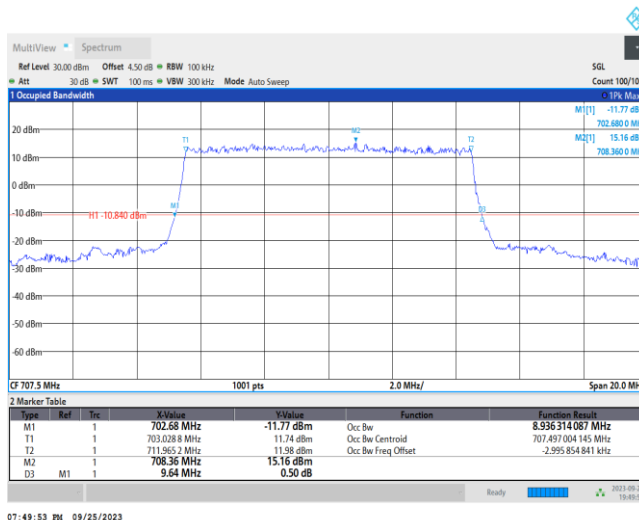
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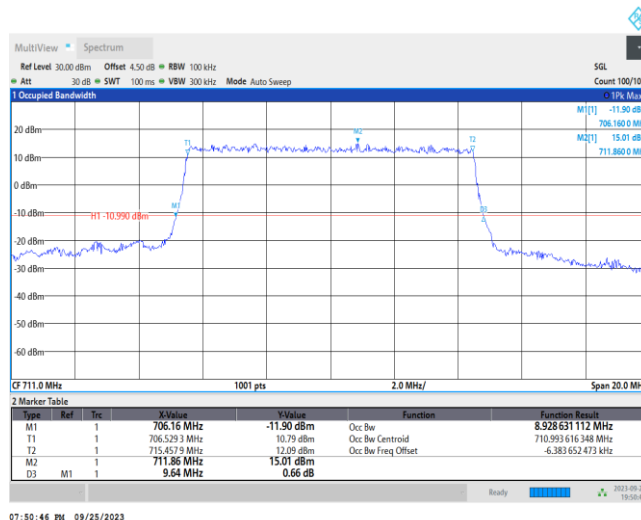
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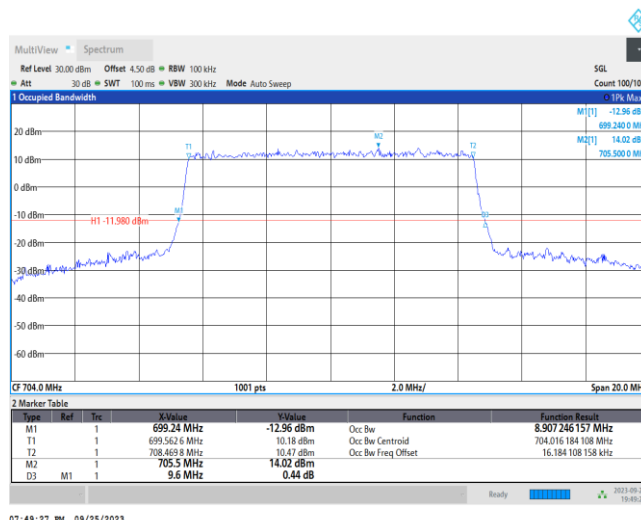
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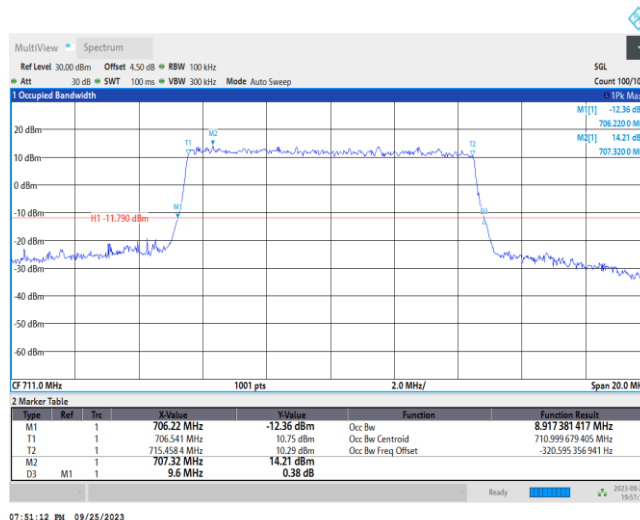
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Band12-10MHz-16QAM-23130-50RB#0



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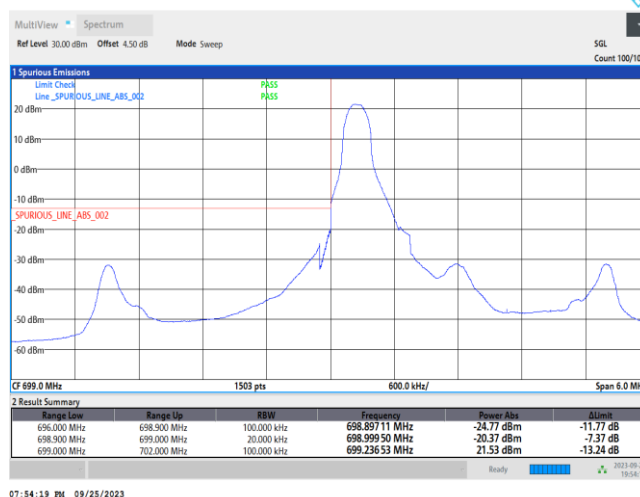
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Band Edge

Test Graphs

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



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

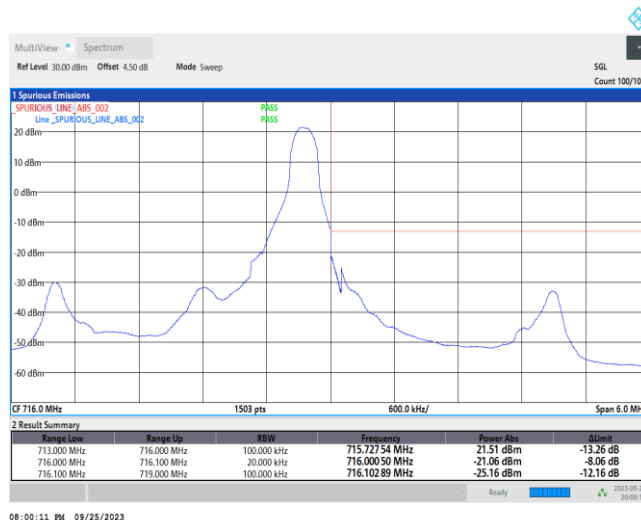


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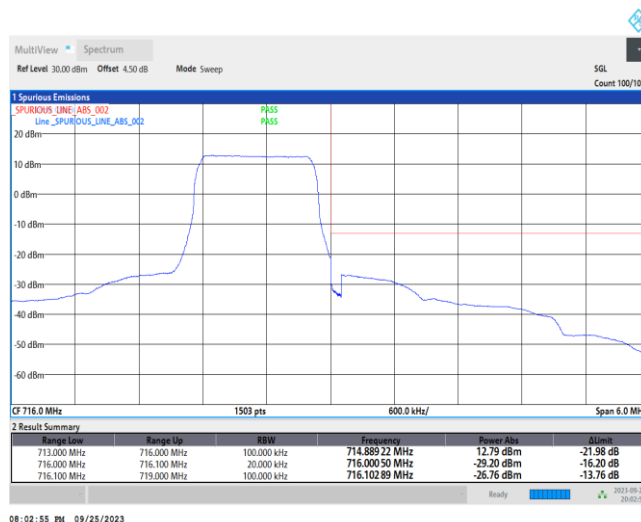
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Band12-1.4MHz-QPSK-23173-1RB#5



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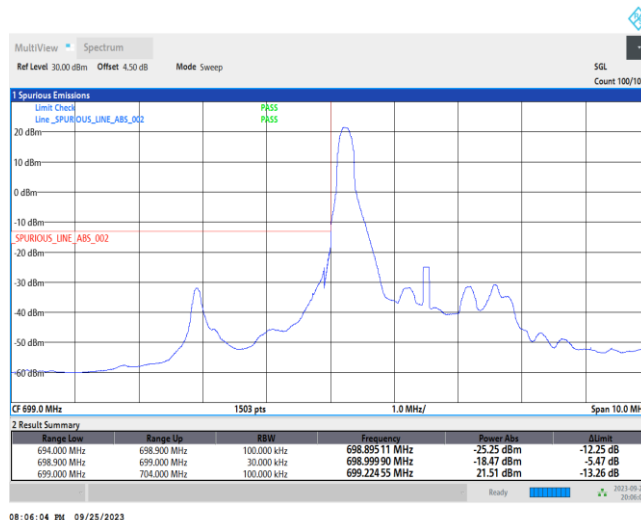
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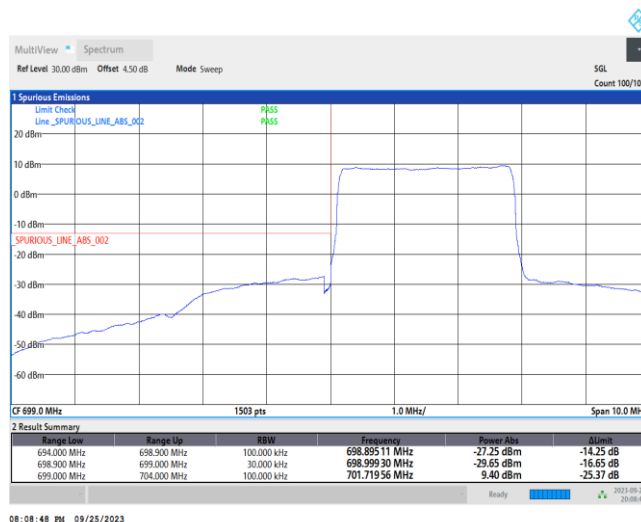
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Band12-3MHz-QPSK-23025-1RB#0



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



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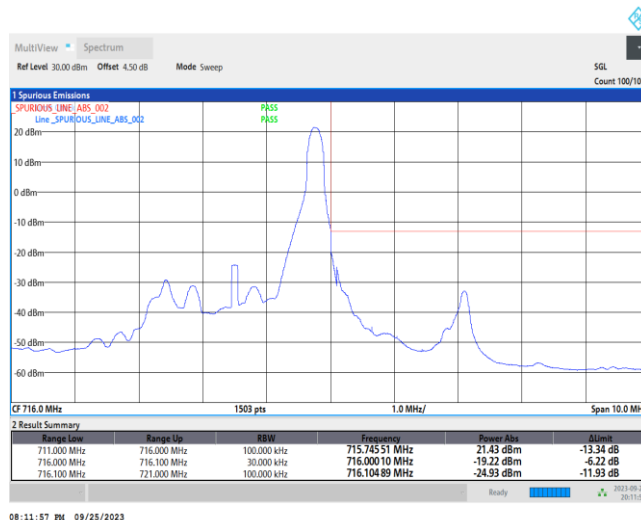
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Band12-3MHz-QPSK-23165-1RB#14



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



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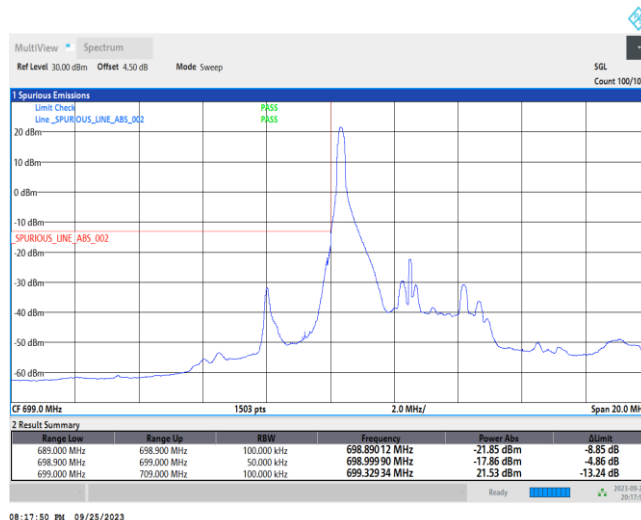
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Band12-5MHz-QPSK-23035-1RB#0



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



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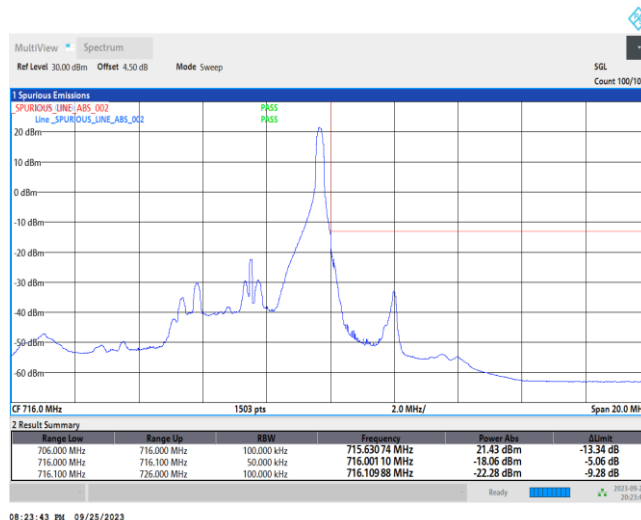
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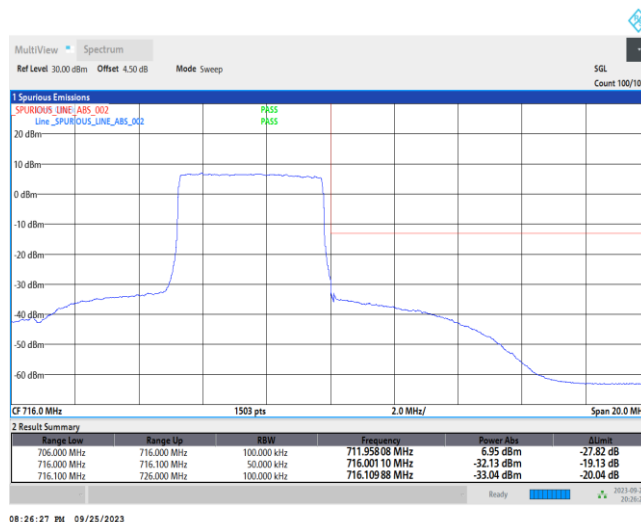
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Band12-5MHz-QPSK-23155-1RB#24



Band12-5MHz-QPSK-23155-25RB#0



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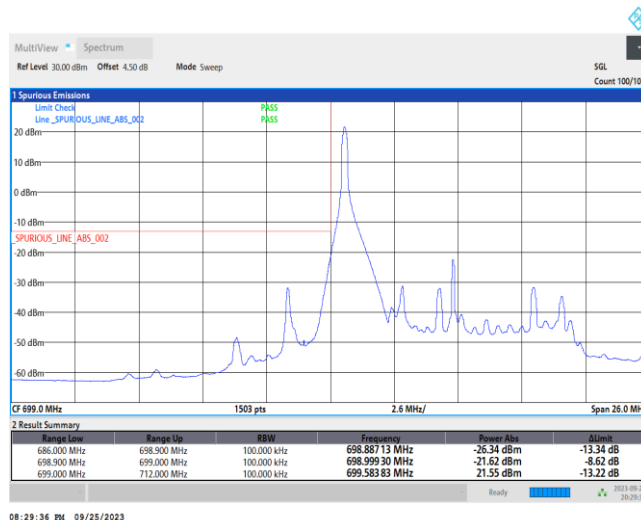
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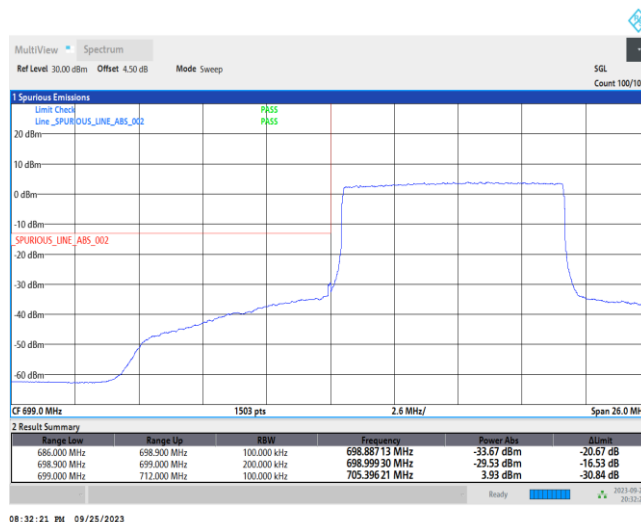
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Band12-10MHz-QPSK-23060-1RB#0



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



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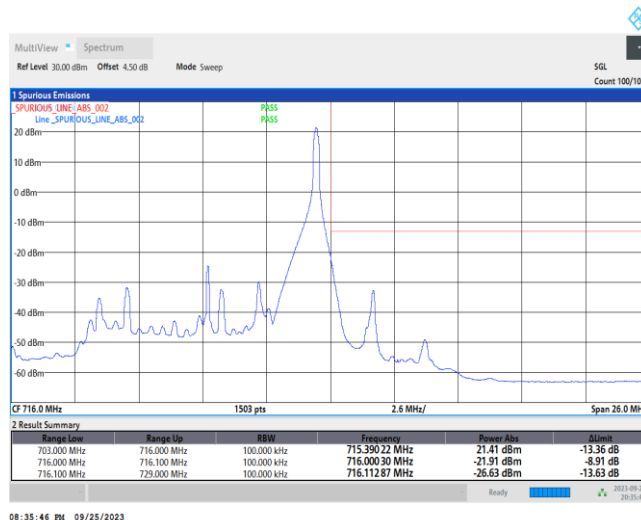
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Band12-10MHz-QPSK-23130-1RB#49



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



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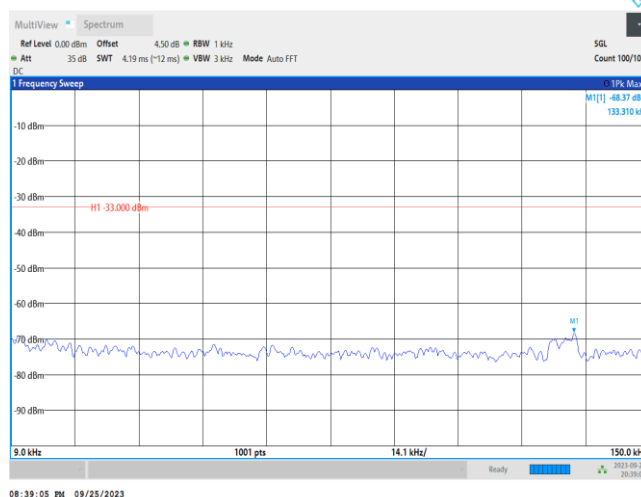
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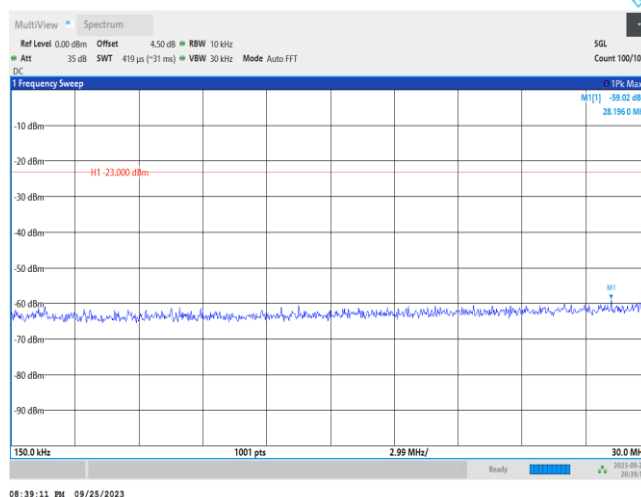
Conducted Spurious Emission

Test Graphs

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



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



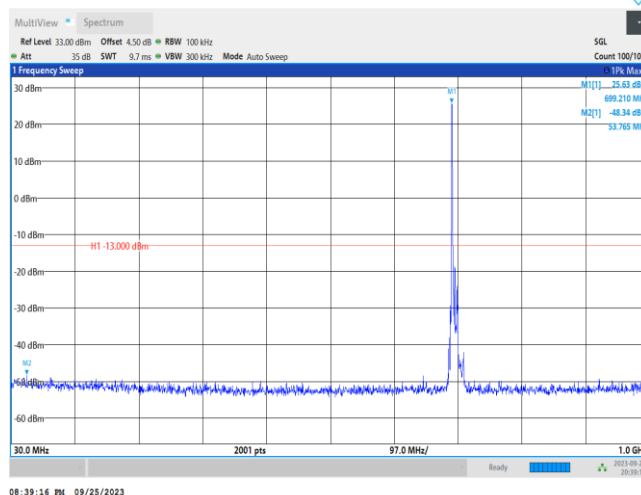
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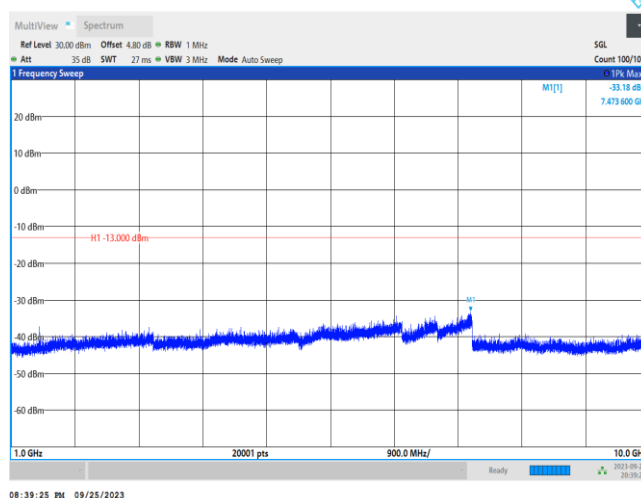
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Band12-10MHz-QPSK-23060-1RB#0-Range3:30~1000MHz



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

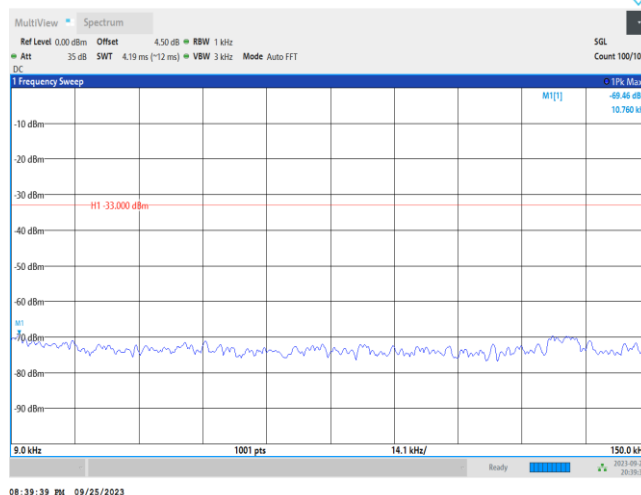


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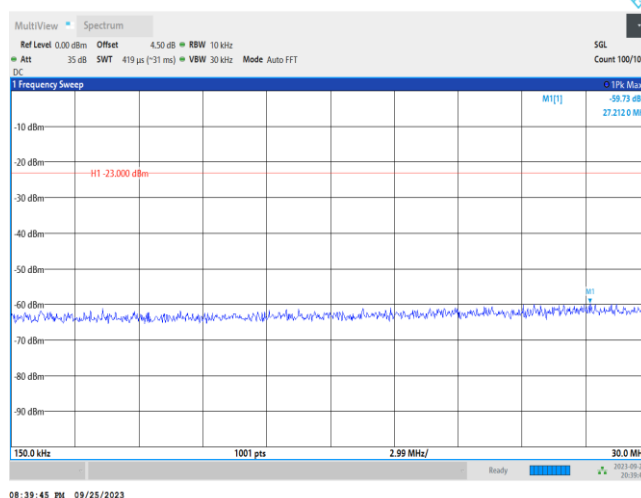
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Band12-10MHz-QPSK-23095-1RB#0-Range1:0.009~0.15MHz



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



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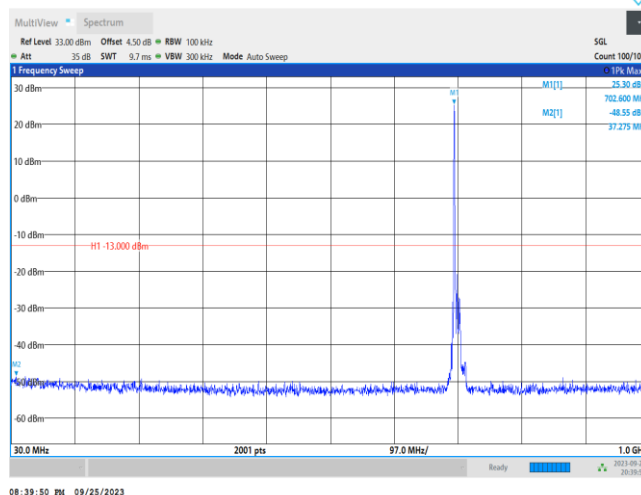
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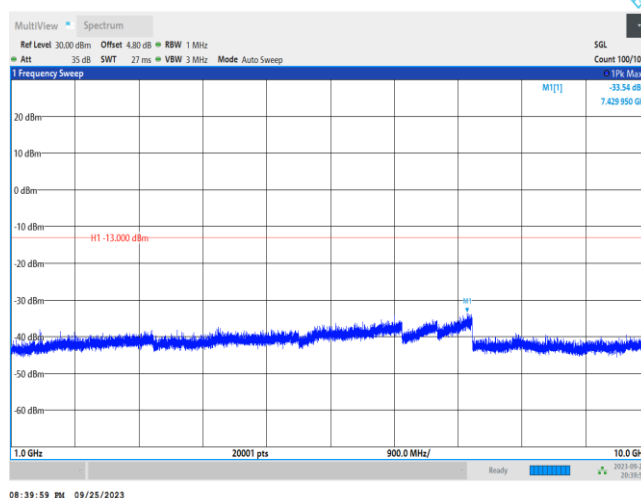
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Band12-10MHz-QPSK-23095-1RB#0-Range3:30~1000MHz



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



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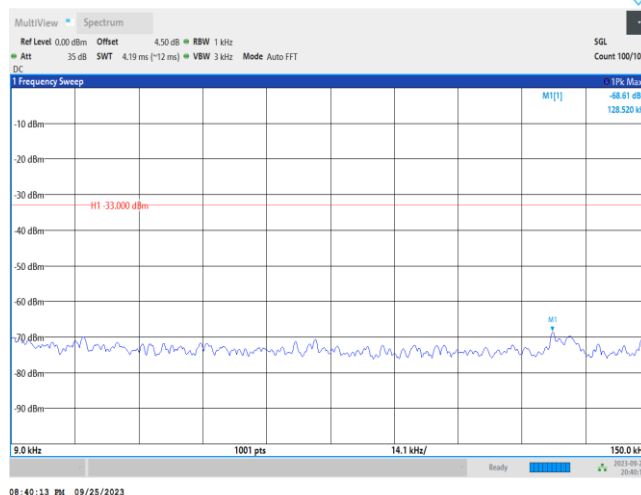
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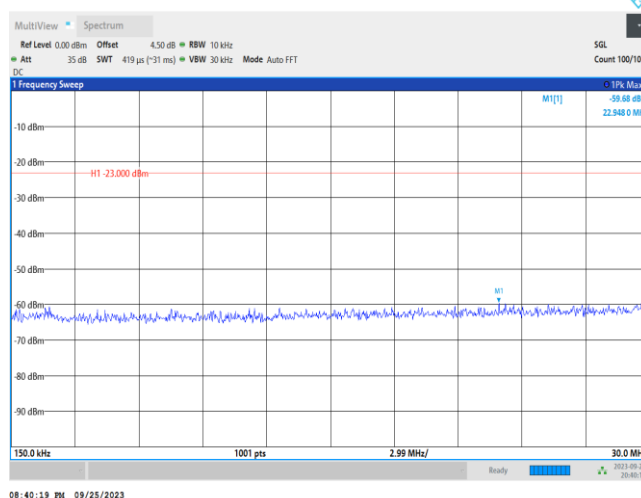
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Band12-10MHz-QPSK-23130-1RB#0-Range1:0.009~0.15MHz



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



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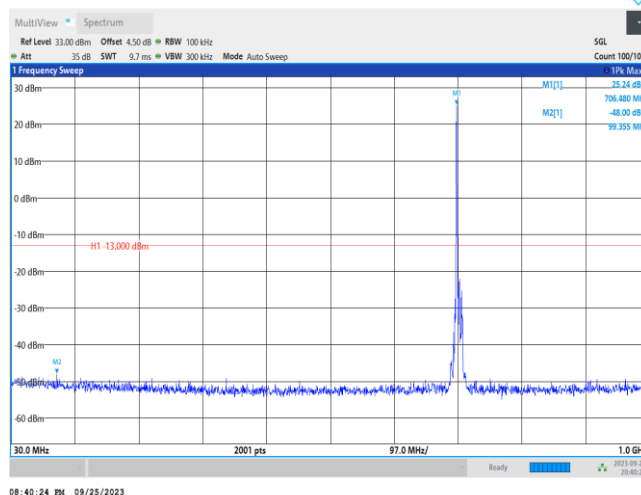
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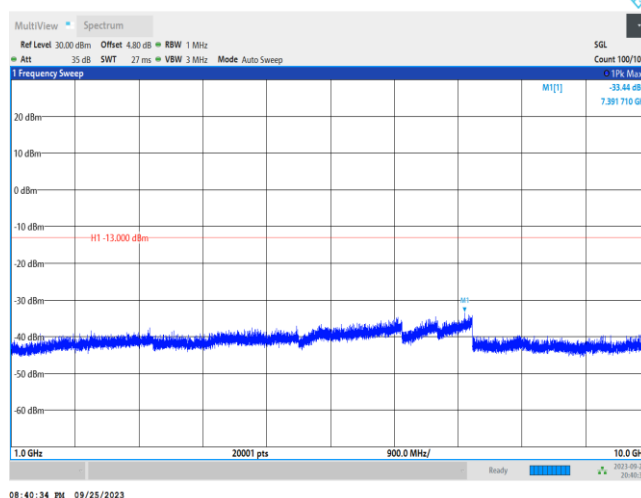
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Band12-10MHz-QPSK-23130-1RB#0-Range3:30~1000MHz



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



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Field Strength of Spurious Radiation

Test Band = LTE_12

Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1058.5	54.62	-47.24	24.13	-63.75	-13.00	50.75	Horizontal
2	1399	58.15	-47.39	24.90	-59.60	-13.00	46.60	Horizontal
3	2098.5	55.20	-46.87	26.79	-60.14	-13.00	47.14	Horizontal
4	2681.5	53.68	-46.18	27.96	-59.80	-13.00	46.80	Horizontal
5	5524.5	49.65	-41.87	32.30	-55.18	-13.00	42.18	Horizontal
6	9912.5	42.36	-35.34	38.61	-49.63	-13.00	36.63	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1058.5	53.60	-47.24	24.13	-64.77	-13.00	51.77	Vertical
2	1399	57.06	-47.39	24.90	-60.69	-13.00	47.69	Vertical
3	2540.5	55.39	-46.48	27.80	-58.55	-13.00	45.55	Vertical
4	5524.5	49.14	-41.87	32.30	-55.69	-13.00	42.69	Vertical
5	7406.5	43.41	-38.35	36.71	-53.49	-13.00	40.49	Vertical
6	9883.5	41.85	-35.33	38.47	-50.27	-13.00	37.27	Vertical



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Test Band = LTE_12
Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1058.5	55.19	-47.24	24.13	-63.18	-13.00	50.18	Horizontal
2	1406	55.77	-47.40	24.95	-61.94	-13.00	48.94	Horizontal
3	1764.5	53.31	-47.37	25.12	-64.20	-13.00	51.20	Horizontal
4	2109.5	58.27	-46.88	26.74	-57.13	-13.00	44.13	Horizontal
5	5524.5	49.87	-41.87	32.30	-54.96	-13.00	41.96	Horizontal
6	9908	41.98	-35.32	38.61	-49.99	-13.00	36.99	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1406	57.80	-47.40	24.95	-59.91	-13.00	46.91	Vertical
2	2109	55.64	-46.88	26.75	-59.75	-13.00	46.75	Vertical
3	2540.5	55.14	-46.48	27.80	-58.80	-13.00	45.80	Vertical
4	5524.5	48.29	-41.87	32.30	-56.54	-13.00	43.54	Vertical
5	7412.5	43.26	-38.35	36.73	-53.62	-13.00	40.62	Vertical
6	9914.5	41.86	-35.35	38.61	-50.14	-13.00	37.14	Vertical



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Test Band = LTE_12

Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1058.5	54.43	-47.24	24.13	-63.94	-13.00	50.94	Horizontal
2	1413	55.52	-47.42	25.00	-62.16	-13.00	49.16	Horizontal
3	2119.5	58.97	-46.90	26.68	-56.51	-13.00	43.51	Horizontal
4	2752.5	52.93	-46.12	28.11	-60.34	-13.00	47.34	Horizontal
5	5524.5	49.63	-41.87	32.30	-55.20	-13.00	42.20	Horizontal
6	9914	41.72	-35.34	38.61	-50.27	-13.00	37.27	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1058.5	53.25	-47.24	24.13	-65.12	-13.00	52.12	Vertical
2	1413	59.38	-47.42	25.00	-58.30	-13.00	45.30	Vertical
3	2120	55.48	-46.90	26.68	-60.00	-13.00	47.00	Vertical
4	2540.5	55.53	-46.48	27.80	-58.41	-13.00	45.41	Vertical
5	5524.5	48.97	-41.87	32.30	-55.86	-13.00	42.86	Vertical
6	9914	41.94	-35.34	38.61	-50.05	-13.00	37.05	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
Band12	10MHz	QPSK	23095	50RB#0	VL	NT	-7.02	-0.009922	PASS
Band12	10MHz	QPSK	23095	50RB#0	VN	NT	-7.01	-0.009908	PASS
Band12	10MHz	QPSK	23095	50RB#0	VH	NT	-10.76	-0.015208	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band12	10MHz	QPSK	23095	50RB#0	NV	-30	-12.19	-0.017230	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-20	-9.03	-0.012763	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-10	-9.61	-0.013583	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	0	-10.13	-0.014318	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	10	-6.04	-0.008537	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	20	-6.69	-0.009456	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	30	-8.01	-0.011322	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	40	-5.56	-0.007859	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	50	-9.66	-0.013654	PASS

---End of Attachment---



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