

# 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	22.9	24.01	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	22.78	23.89	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	23.07	24.18	34.77	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	21.92	23.03	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	22.87	23.98	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	22.96	24.07	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	22.8	23.91	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	21.96	23.07	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	22.84	23.95	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	22.93	24.04	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	22.99	24.1	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	21.95	23.06	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	21.64	22.75	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	21.67	22.78	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	21.61	22.72	34.77	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	21.04	22.15	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	22.23	23.34	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	21.55	22.66	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	21.49	22.6	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	20.94	22.05	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	21.63	22.74	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	21.95	23.06	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	21.59	22.7	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	20.59	21.7	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#0	20.81	21.92	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#2	21.27	22.38	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#5	20.73	21.84	34.77	PASS



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Band12	1.4MHz	64QAM	23017	6RB#0	20.07	21.18	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#0	20.92	22.03	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#2	21.04	22.15	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#5	20.8	21.91	34.77	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	20.02	21.13	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#0	21.11	22.22	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#2	21	22.11	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#5	21.28	22.39	34.77	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	19.99	21.1	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	22.86	23.97	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#8	22.95	24.06	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	22.88	23.99	34.77	PASS
Band12	3MHz	QPSK	23025	15RB#0	21.98	23.09	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	23.08	24.19	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#8	22.95	24.06	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	22.65	23.76	34.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	21.99	23.1	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	22.75	23.86	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#8	22.94	24.05	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#14	22.79	23.9	34.77	PASS
Band12	3MHz	QPSK	23165	15RB#0	22.07	23.18	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#0	21.44	22.55	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#8	22.23	23.34	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	21.4	22.51	34.77	PASS
Band12	3MHz	16QAM	23025	15RB#0	20.95	22.06	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#0	22.39	23.5	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#8	21.6	22.71	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#14	21.64	22.75	34.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	21.05	22.16	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#0	21.54	22.65	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#8	21.47	22.58	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#14	21.45	22.56	34.77	PASS



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Band12	3MHz	16QAM	23165	15RB#0	21.15	22.26	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#0	20.66	21.77	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#8	21.15	22.26	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#14	20.72	21.83	34.77	PASS
Band12	3MHz	64QAM	23025	15RB#0	19.99	21.1	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#0	21.18	22.29	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#8	20.83	21.94	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#14	20.93	22.04	34.77	PASS
Band12	3MHz	64QAM	23095	15RB#0	20.16	21.27	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#0	20.67	21.78	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#8	21.07	22.18	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#14	20.75	21.86	34.77	PASS
Band12	3MHz	64QAM	23165	15RB#0	20.09	21.2	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#0	22.92	24.03	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#12	22.98	24.09	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#24	23	24.11	34.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	21.83	22.94	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	22.71	23.82	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#12	22.98	24.09	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#24	22.73	23.84	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	21.99	23.1	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	22.75	23.86	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#12	22.83	23.94	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#24	22.77	23.88	34.77	PASS
Band12	5MHz	QPSK	23155	25RB#0	21.98	23.09	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#0	21.53	22.64	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#12	21.8	22.91	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#24	21.3	22.41	34.77	PASS
Band12	5MHz	16QAM	23035	25RB#0	21.13	22.24	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#0	21.4	22.51	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#12	21.73	22.84	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#24	21.44	22.55	34.77	PASS



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Band12	5MHz	16QAM	23095	25RB#0	21.16	22.27	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#0	21.33	22.44	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#12	21.56	22.67	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#24	21.99	23.1	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	21.06	22.17	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#0	21.15	22.26	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#12	21.3	22.41	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#24	20.58	21.69	34.77	PASS
Band12	5MHz	64QAM	23035	25RB#0	19.84	20.95	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#0	20.98	22.09	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#12	21.31	22.42	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#24	20.9	22.01	34.77	PASS
Band12	5MHz	64QAM	23095	25RB#0	19.97	21.08	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#0	20.78	21.89	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#12	21.02	22.13	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#24	20.65	21.76	34.77	PASS
Band12	5MHz	64QAM	23155	25RB#0	20.11	21.22	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#0	23.03	24.14	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#24	23.08	24.19	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#49	22.73	23.84	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	22.03	23.14	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	22.8	23.91	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	22.96	24.07	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	22.62	23.73	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	21.96	23.07	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	22.94	24.05	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#24	23.22	24.33	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#49	22.62	23.73	34.77	PASS
Band12	10MHz	QPSK	23130	50RB#0	21.98	23.09	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	21.74	22.85	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#24	21.85	22.96	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#49	21.39	22.5	34.77	PASS



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Band12	10MHz	16QAM	23060	50RB#0	21.09	22.2	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#0	22.01	23.12	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#24	21.73	22.84	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#49	21.33	22.44	34.77	PASS
Band12	10MHz	16QAM	23095	50RB#0	20.92	22.03	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#0	21.41	22.52	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#24	21.51	22.62	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	21.43	22.54	34.77	PASS
Band12	10MHz	16QAM	23130	50RB#0	21.05	22.16	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#0	20.82	21.93	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#24	20.88	21.99	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#49	20.67	21.78	34.77	PASS
Band12	10MHz	64QAM	23060	50RB#0	19.88	20.99	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#0	20.97	22.08	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#24	21.11	22.22	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#49	21.3	22.41	34.77	PASS
Band12	10MHz	64QAM	23095	50RB#0	19.96	21.07	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#0	21.23	22.34	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#24	21.35	22.46	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#49	20.82	21.93	34.77	PASS
Band12	10MHz	64QAM	23130	50RB#0	19.97	21.08	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	5.26	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.34	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.18	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	6.08	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	6.12	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	6.00	13	PASS
Band12	10MHz	64QAM	23060	50RB#0	6.56	13	PASS
Band12	10MHz	64QAM	23095	50RB#0	6.62	13	PASS
Band12	10MHz	64QAM	23130	50RB#0	6.50	13	PASS

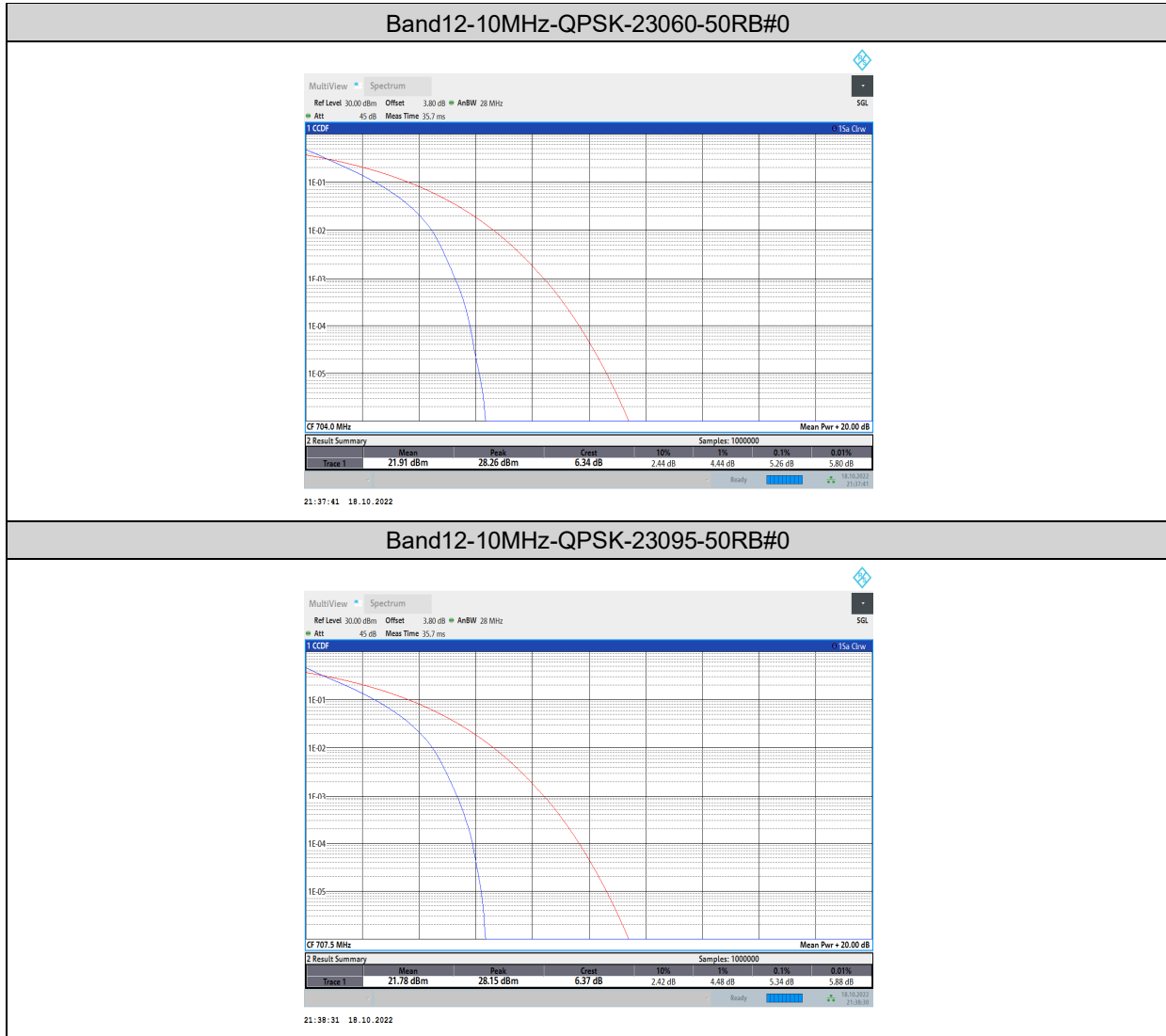


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Test Graphs



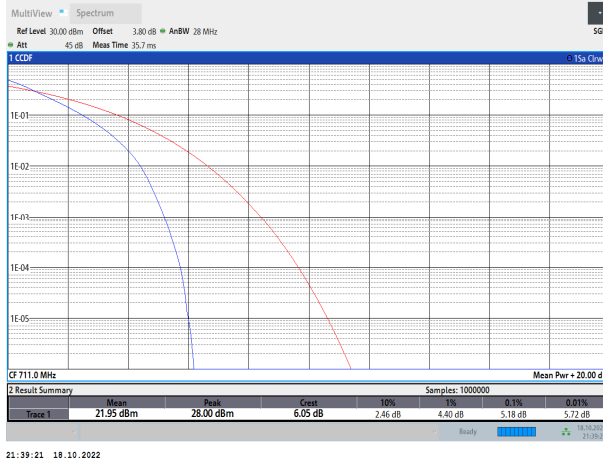
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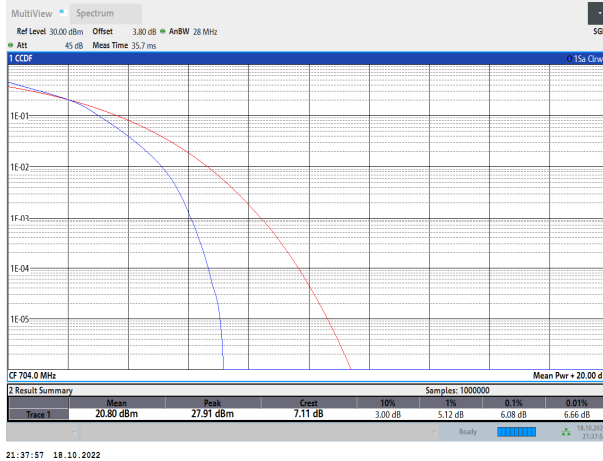
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Band12-10MHz-QPSK-23130-50RB#0



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

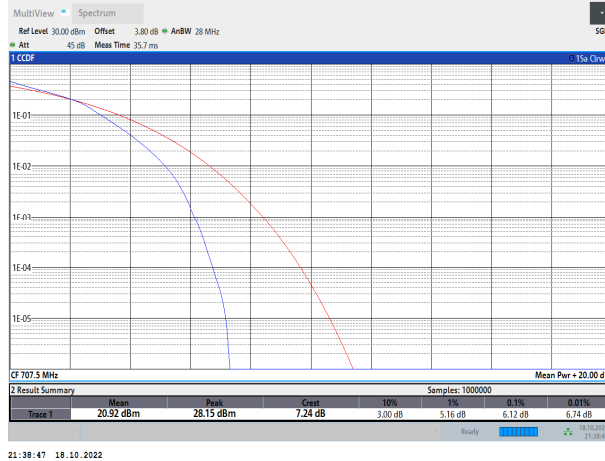


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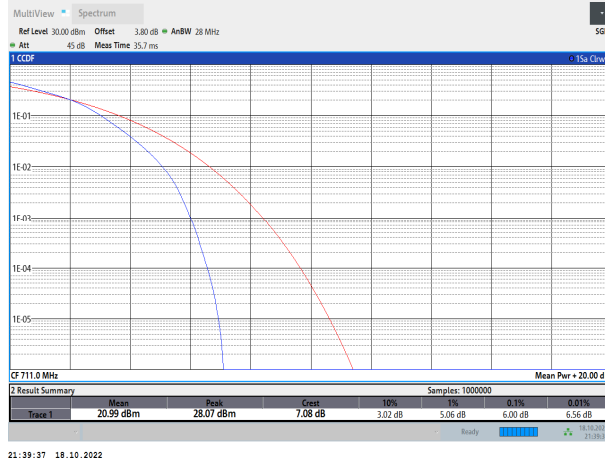
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Band12-10MHz-16QAM-23095-50RB#0



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

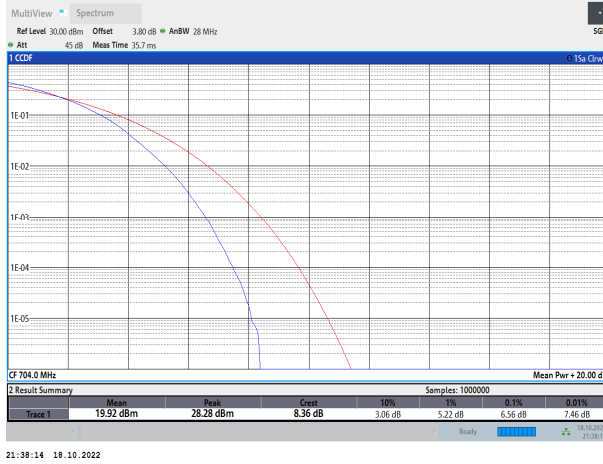


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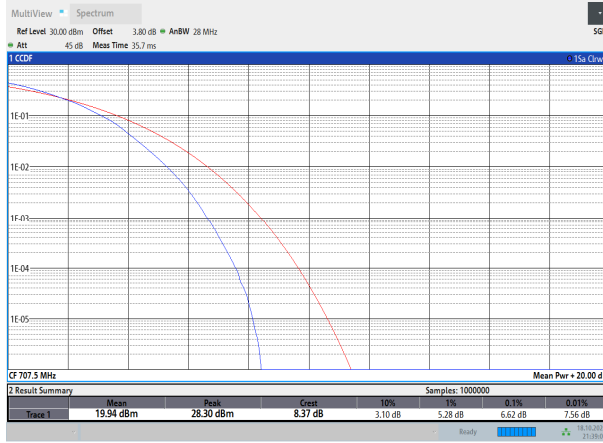
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Band12-10MHz-64QAM-23060-50RB#0



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Band12-10MHz-64QAM-23095-50RB#0

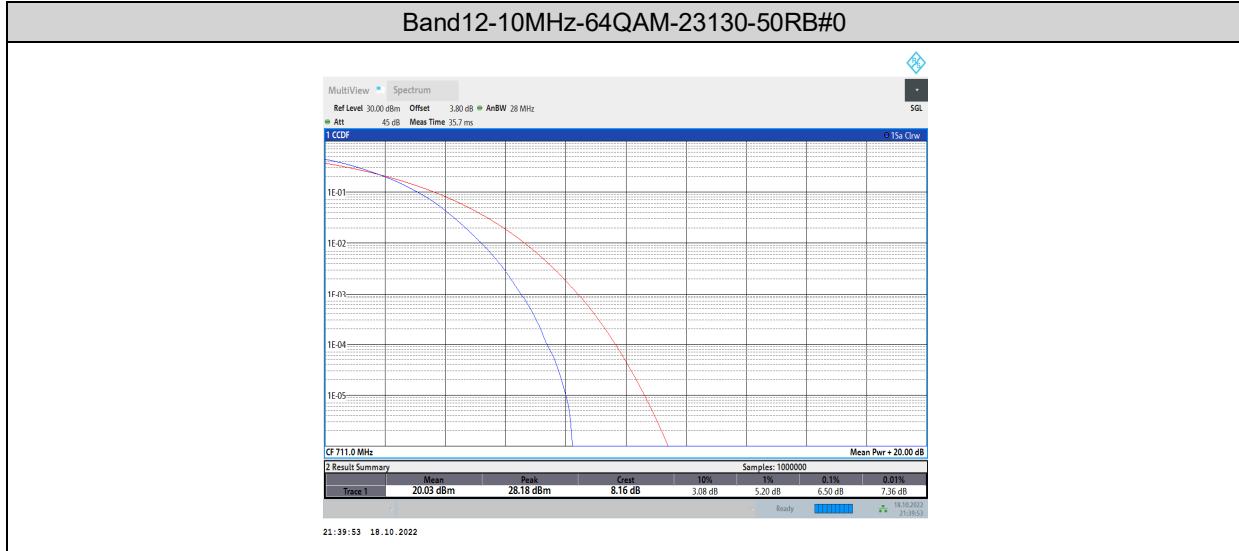


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## Modulation Characteristics

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band12	10MHz	QPSK	23095	50RB#0	PASS	PASS
Band12	10MHz	16QAM	23095	50RB#0	PASS	PASS
Band12	10MHz	64QAM	23095	50RB#0	PASS	PASS



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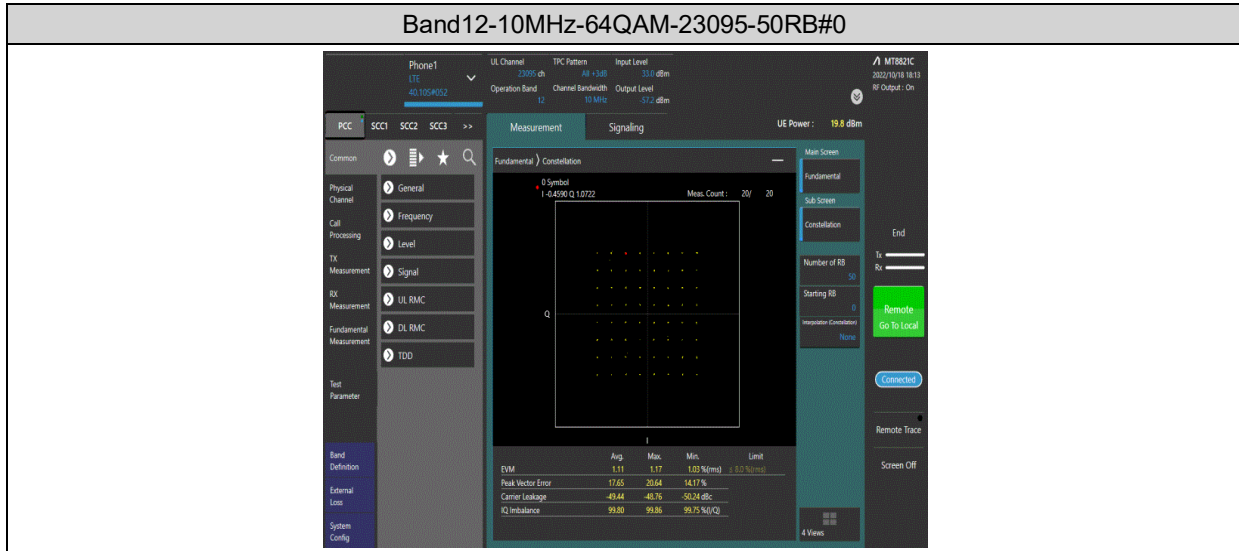
Test Graphs



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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	1.086	1.28	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.086	1.28	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.087	1.28	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.097	1.30	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.096	1.30	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.097	1.31	PASS
Band12	1.4MHz	64QAM	23017	6RB#0	1.095	1.30	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	1.095	1.29	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	1.095	1.30	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.689	2.96	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.69	2.96	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.692	2.96	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.684	2.98	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.686	2.98	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.685	2.96	PASS
Band12	3MHz	64QAM	23025	15RB#0	2.686	2.96	PASS
Band12	3MHz	64QAM	23095	15RB#0	2.688	2.95	PASS
Band12	3MHz	64QAM	23165	15RB#0	2.69	2.95	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.469	4.87	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.467	4.91	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.464	4.87	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.469	4.96	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.469	4.92	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.463	4.94	PASS
Band12	5MHz	64QAM	23035	25RB#0	4.474	4.92	PASS
Band12	5MHz	64QAM	23095	25RB#0	4.475	4.94	PASS
Band12	5MHz	64QAM	23155	25RB#0	4.474	4.94	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.913	9.74	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.923	9.70	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.916	9.64	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.899	9.66	PASS



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Rev.: 01

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Band12	10MHz	16QAM	23095	50RB#0	8.92	9.70	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.893	9.62	PASS
Band12	10MHz	64QAM	23060	50RB#0	8.919	9.60	PASS
Band12	10MHz	64QAM	23095	50RB#0	8.92	9.64	PASS
Band12	10MHz	64QAM	23130	50RB#0	8.909	9.68	PASS

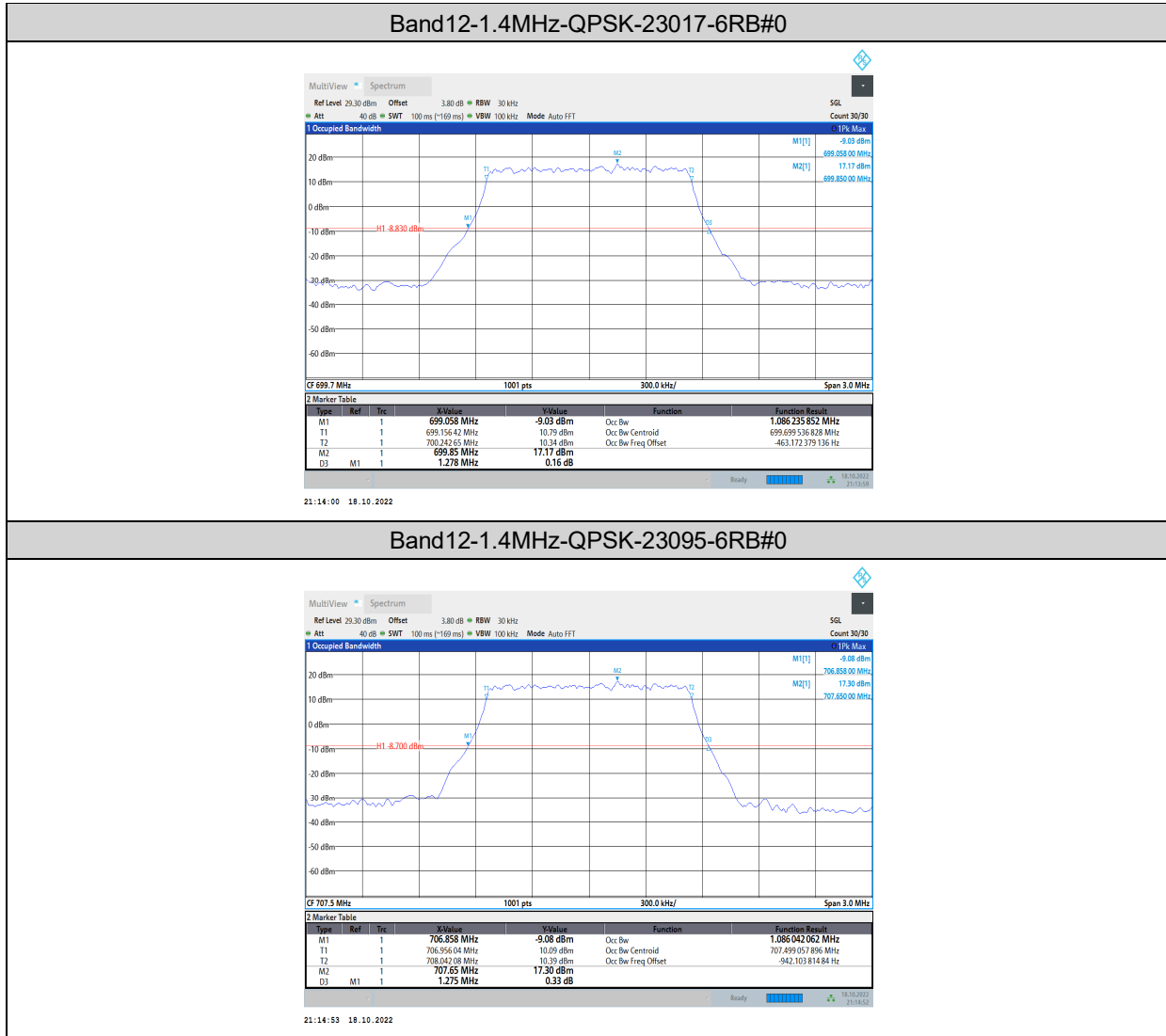


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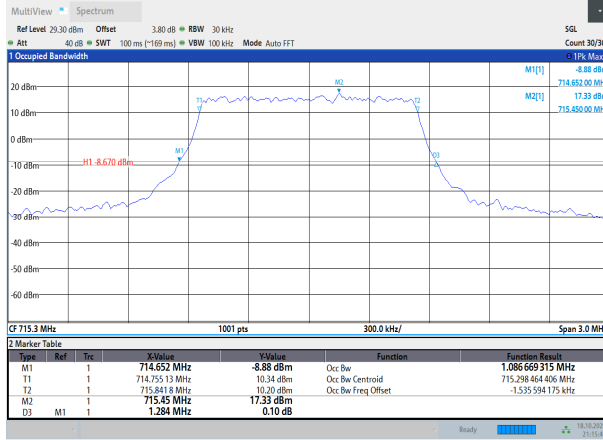
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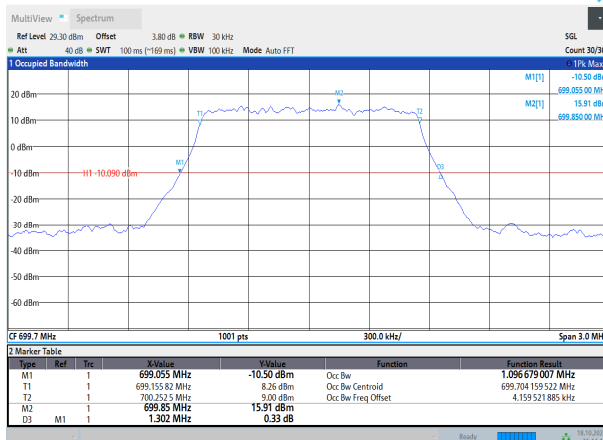


Band12-1.4MHz-QPSK-23173-6RB#0



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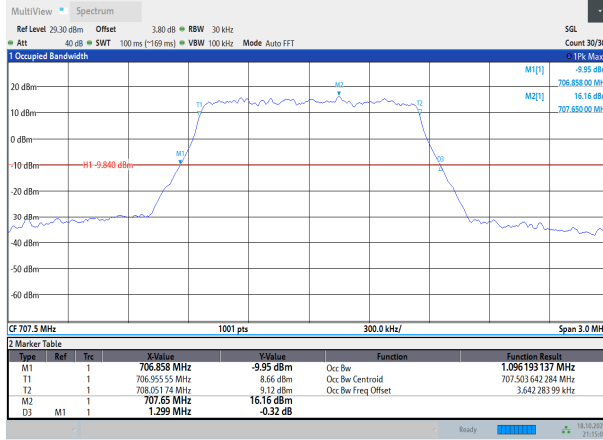


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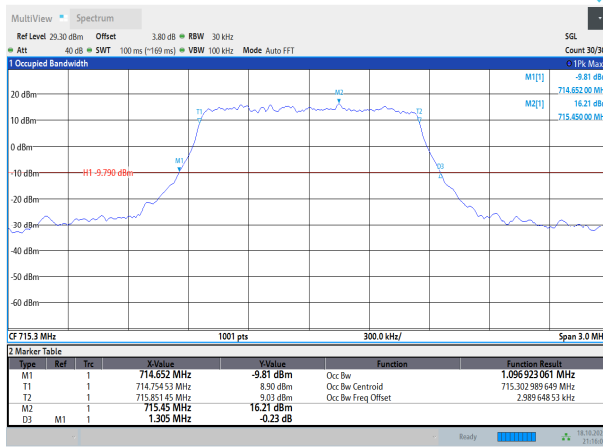
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Band12-1.4MHz-16QAM-23095-6RB#0



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

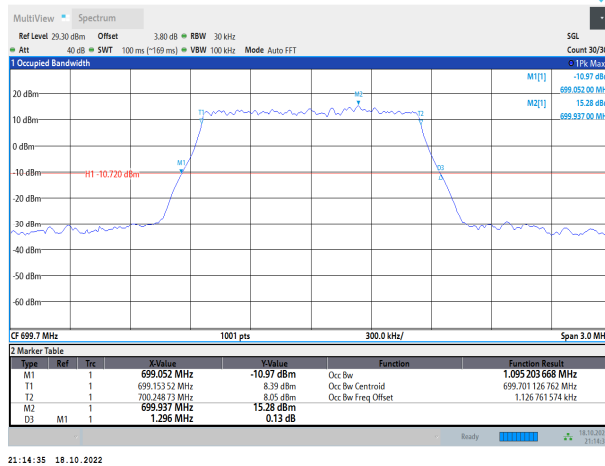


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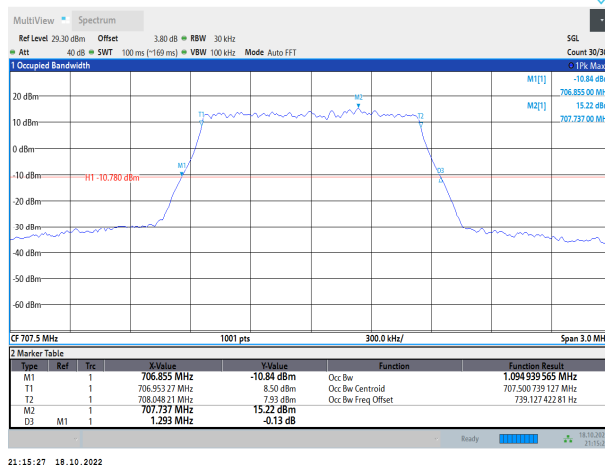
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Band12-1.4MHz-64QAM-23017-6RB#0



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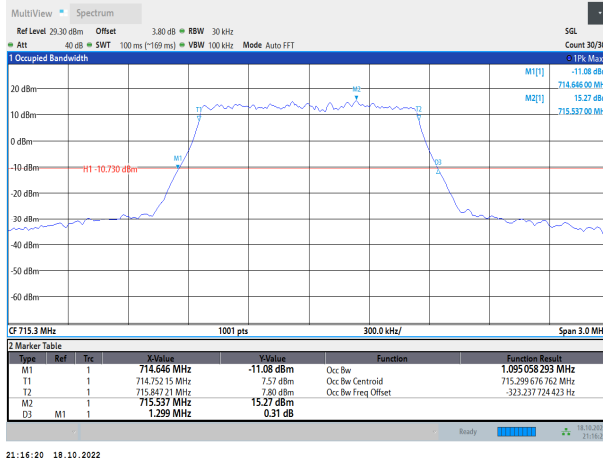


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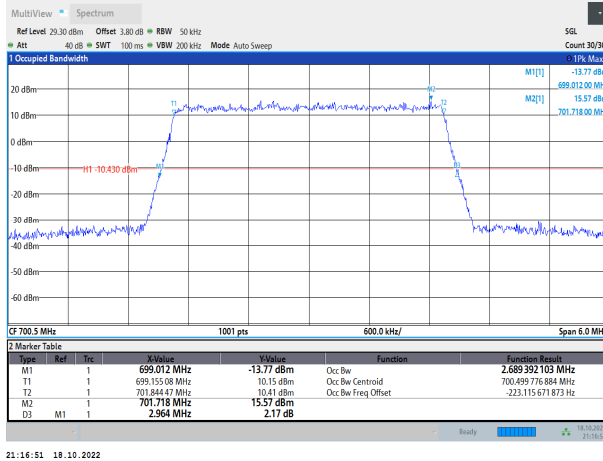
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Band12-1.4MHz-64QAM-23173-6RB#0



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

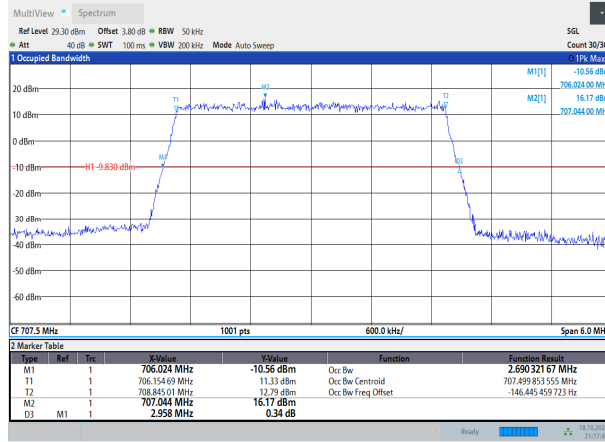


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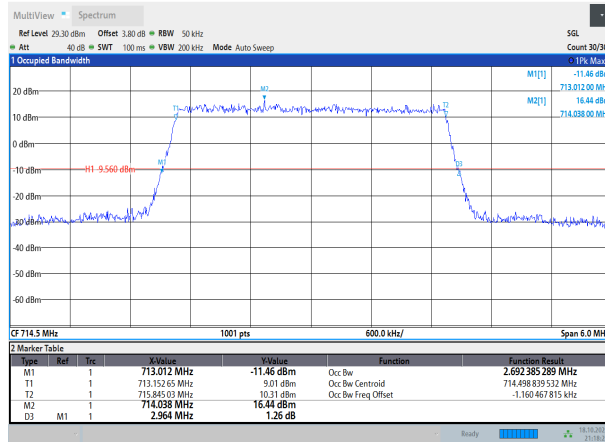
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Band12-3MHz-QPSK-23095-15RB#0



21:17:41 18.10.2022

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



21:18:30 18.10.2022



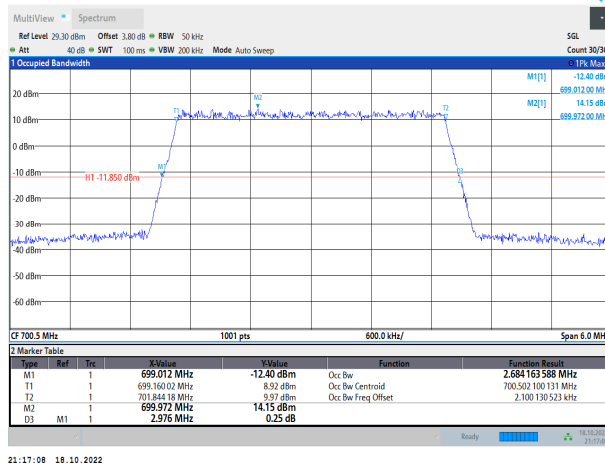
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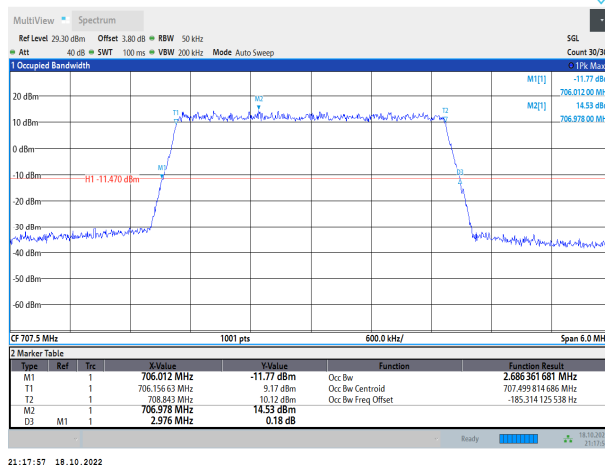
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Band12-3MHz-16QAM-23025-15RB#0



Band12-3MHz-16QAM-23095-15RB#0

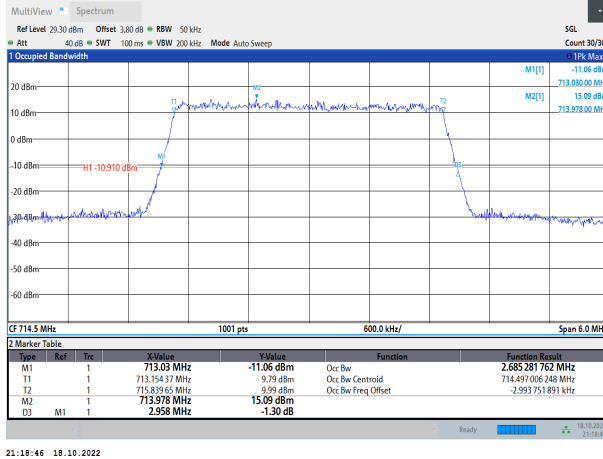


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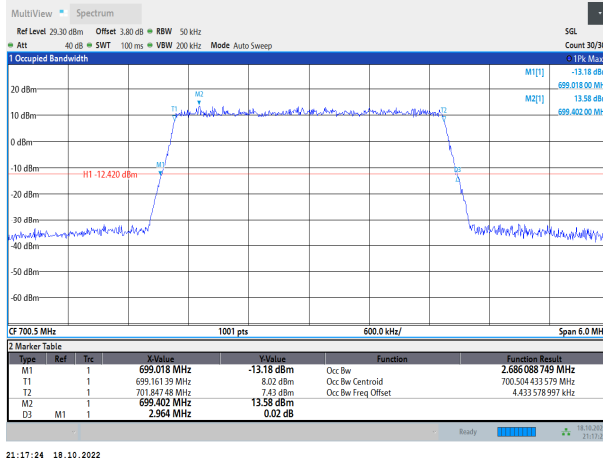
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Band12-3MHz-16QAM-23165-15RB#0



Band12-3MHz-64QAM-23025-15RB#0

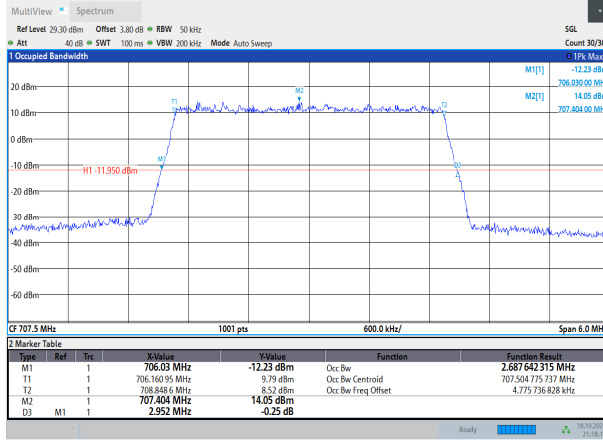


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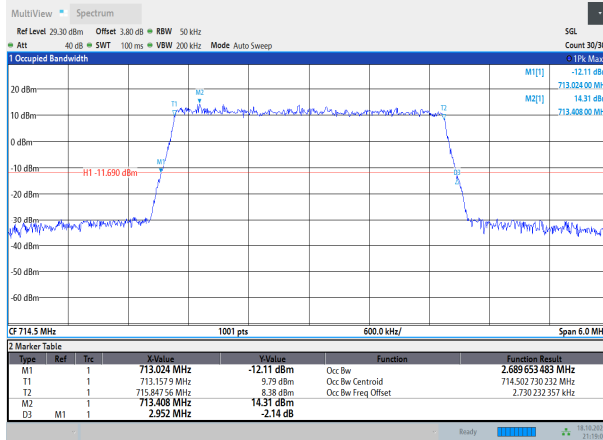
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Band12-3MHz-64QAM-23095-15RB#0



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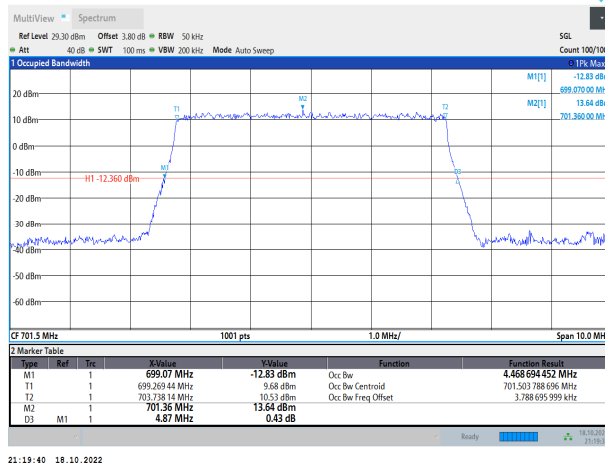


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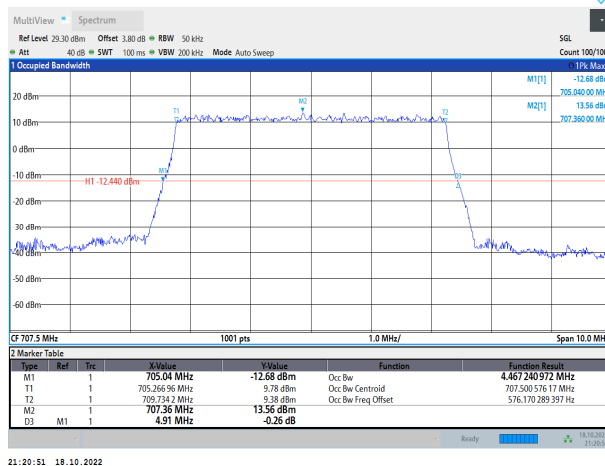
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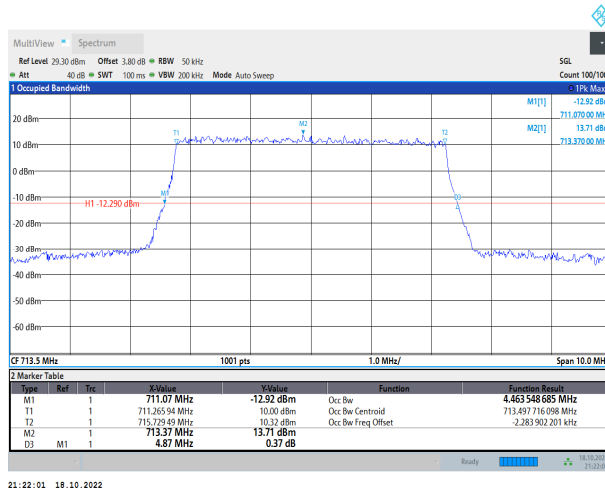


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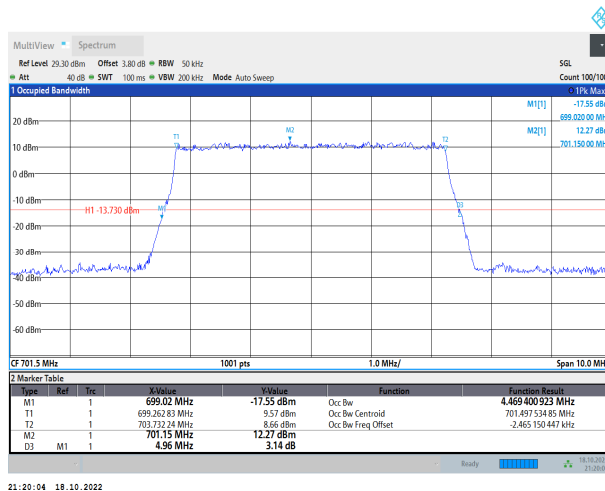
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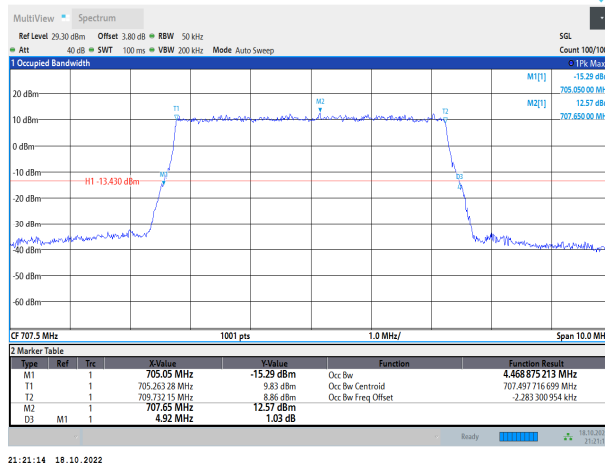
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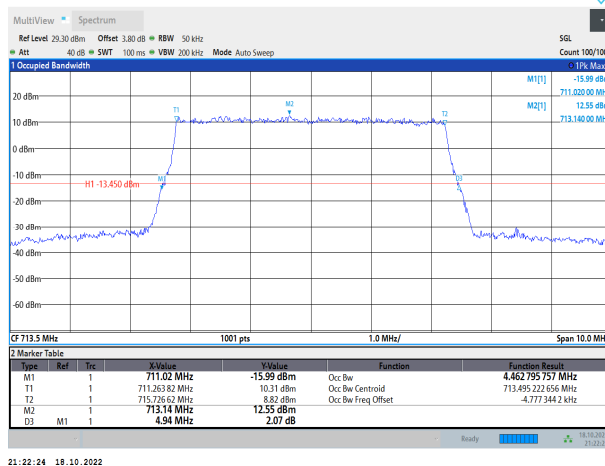
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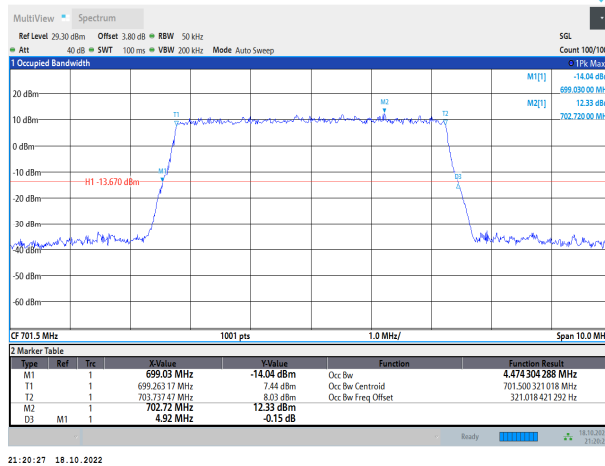


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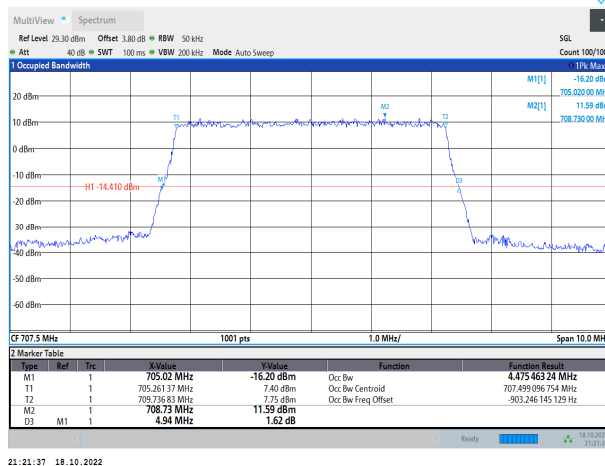
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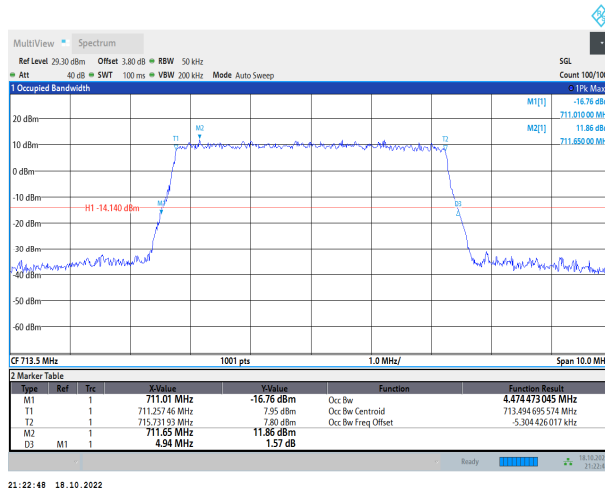


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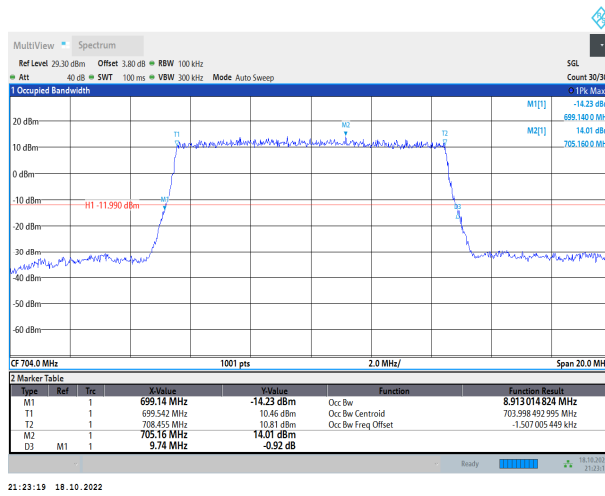
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Band12-5MHz-64QAM-23155-25RB#0



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

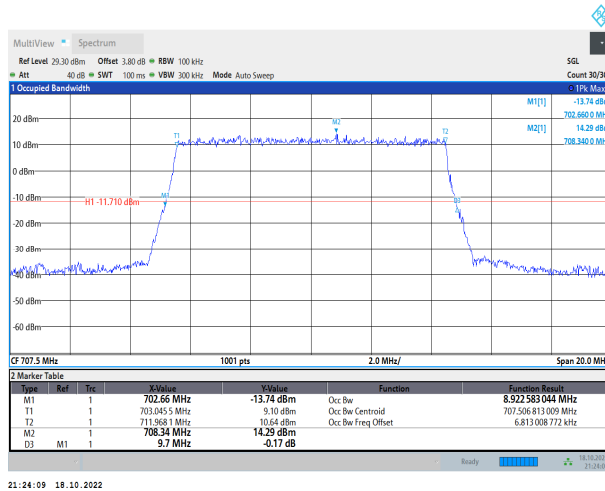


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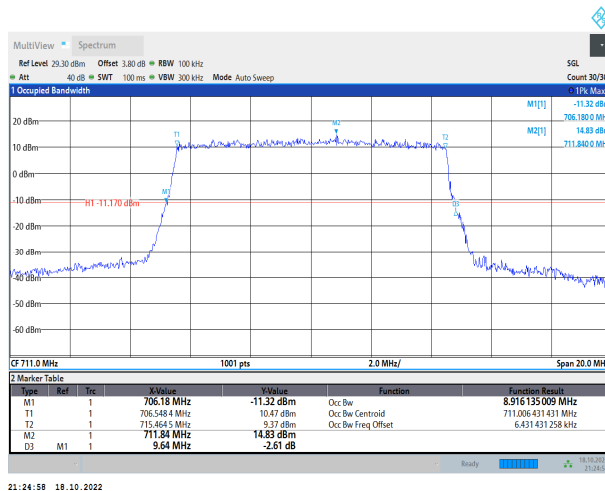
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Band12-10MHz-QPSK-23095-50RB#0



21:24:09 18.10.2022

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



21:24:58 18.10.2022

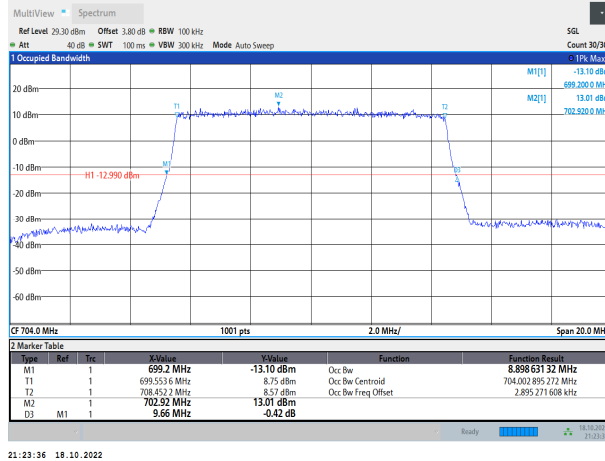


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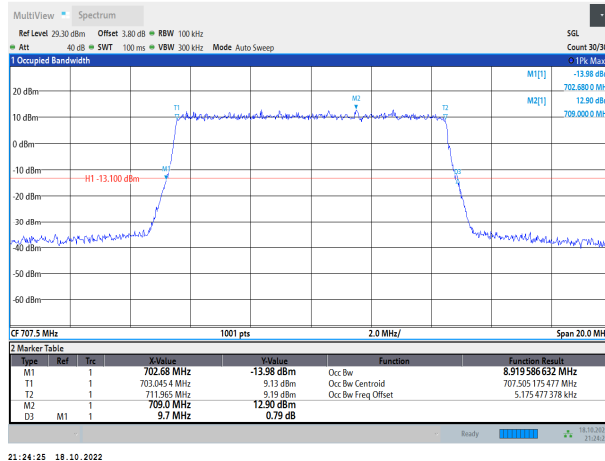
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Band12-10MHz-16QAM-23060-50RB#0



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

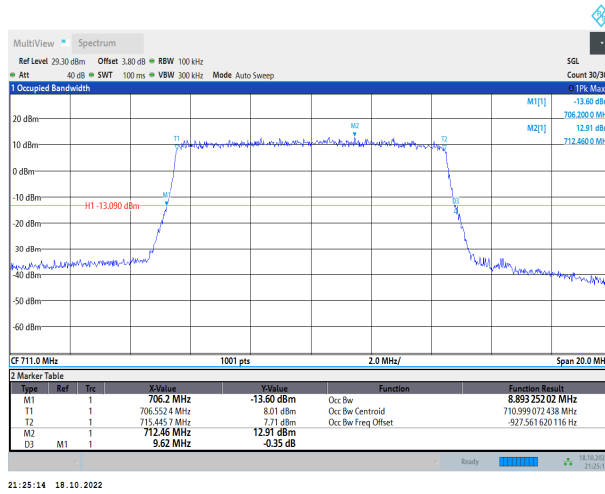


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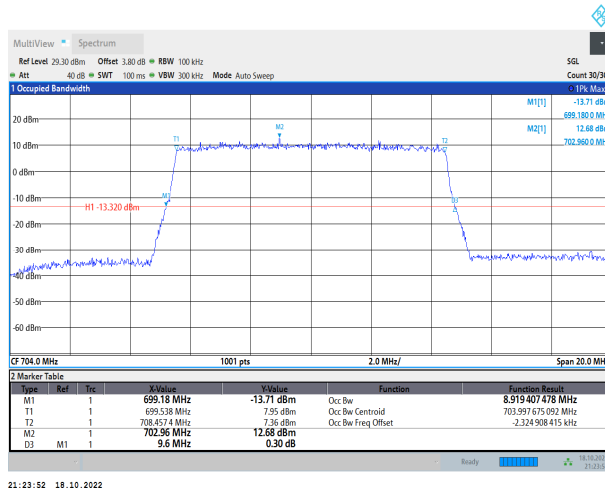
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**Band12-10MHz-16QAM-23130-50RB#0**



**Band12-10MHz-64QAM-23060-50RB#0**



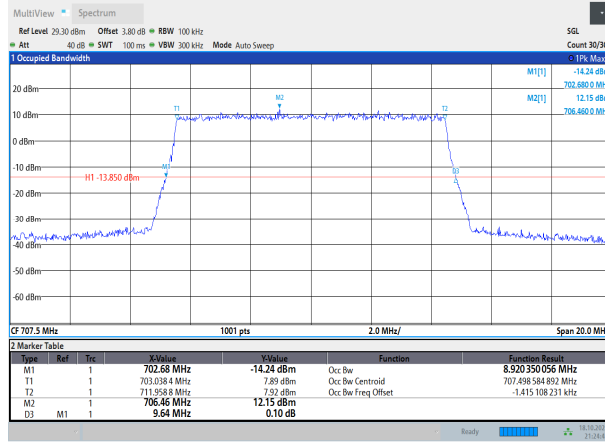
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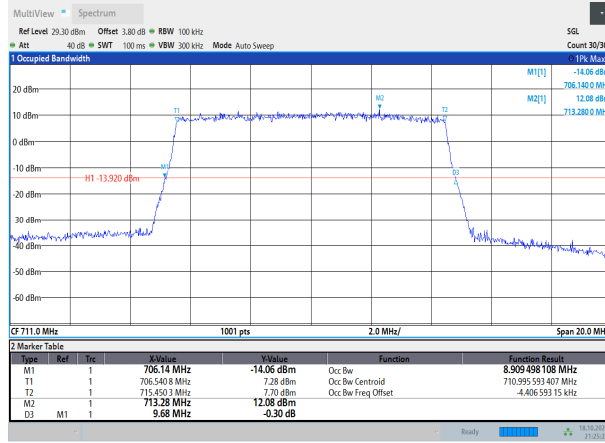


**Band12-10MHz-64QAM-23095-50RB#0**



21:24:41 18.10.2022

**Band12-10MHz-64QAM-23130-50RB#0**



21:25:30 18.10.2022



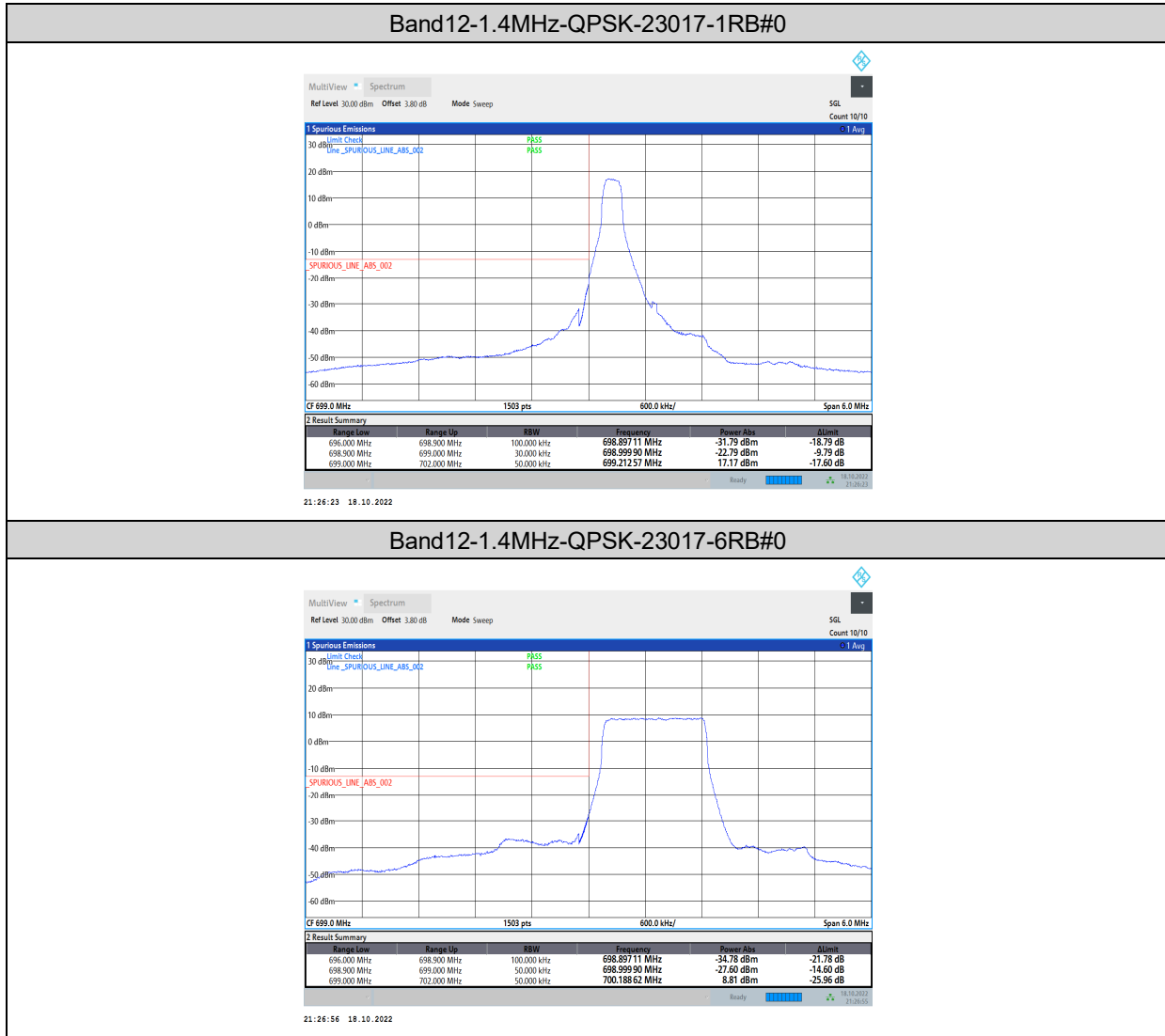
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## Band Edge

## Test Graphs

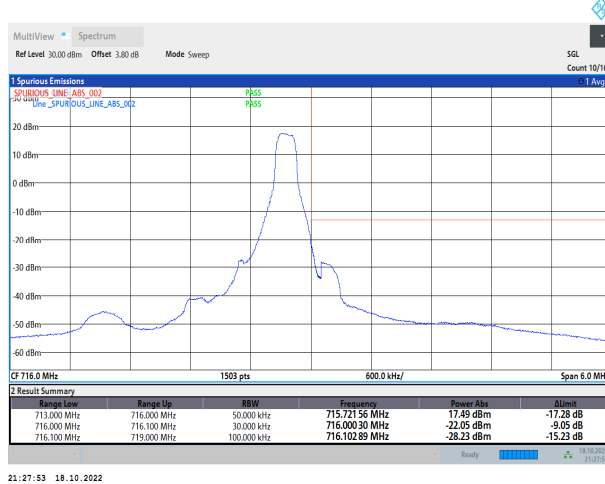


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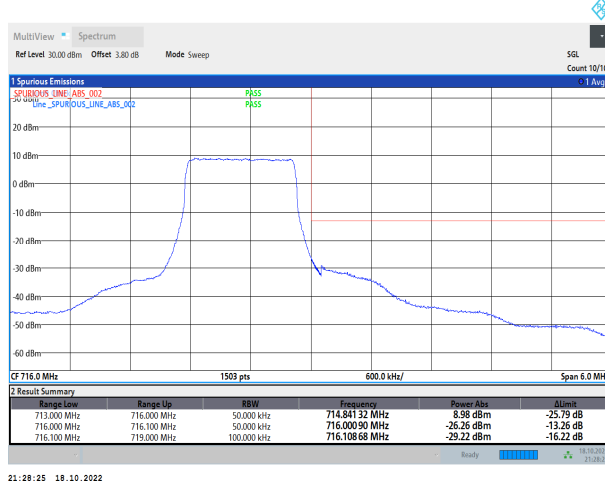
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Band12-1.4MHz-QPSK-23173-1RB#5



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

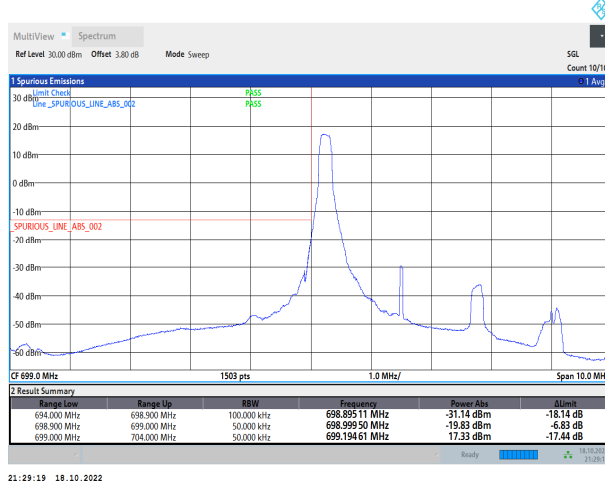


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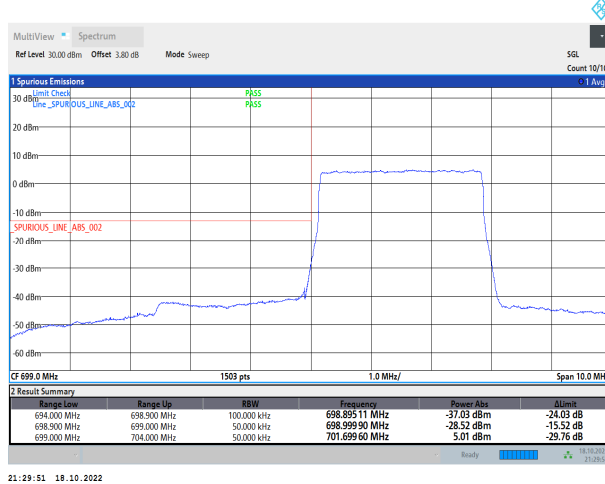
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Band12-3MHz-QPSK-23025-1RB#0



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

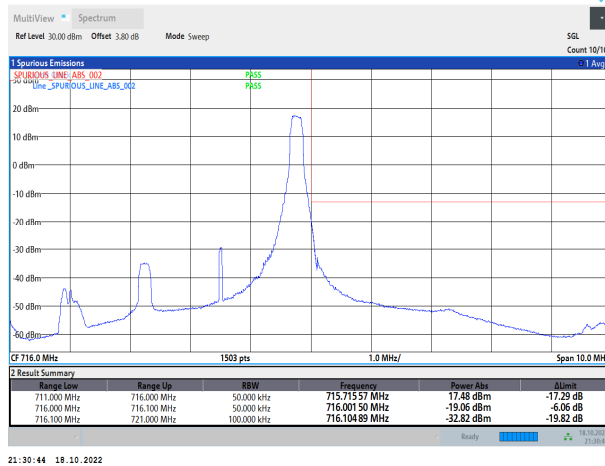


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Band12-3MHz-QPSK-23165-1RB#14



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

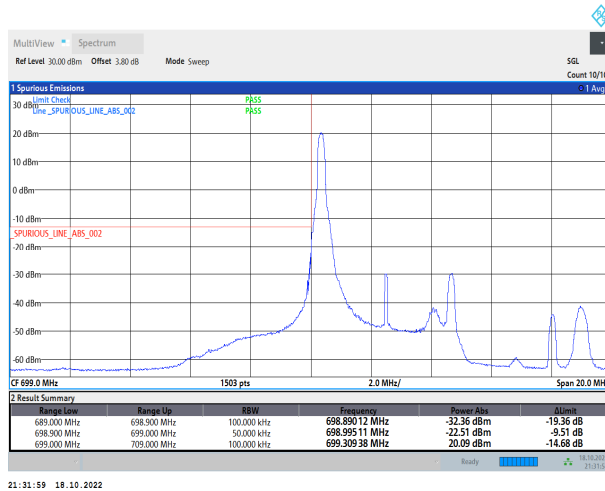


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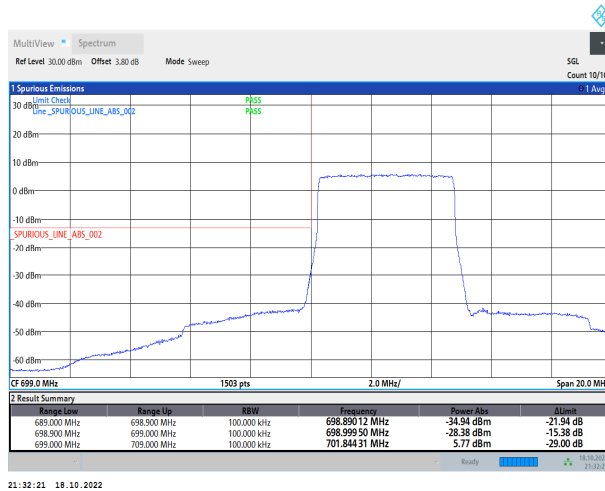
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Band12-5MHz-QPSK-23035-1RB#0



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



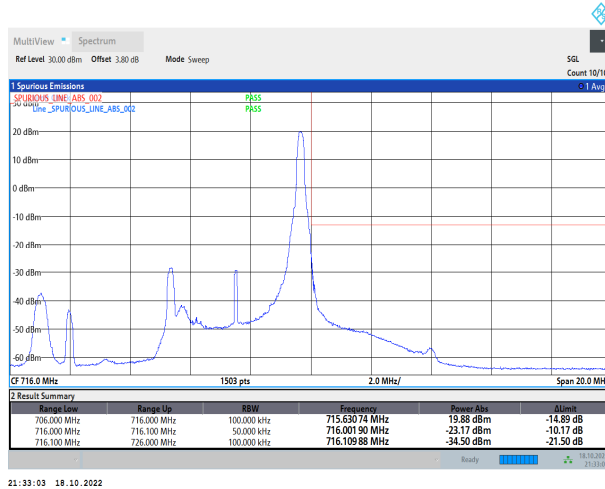
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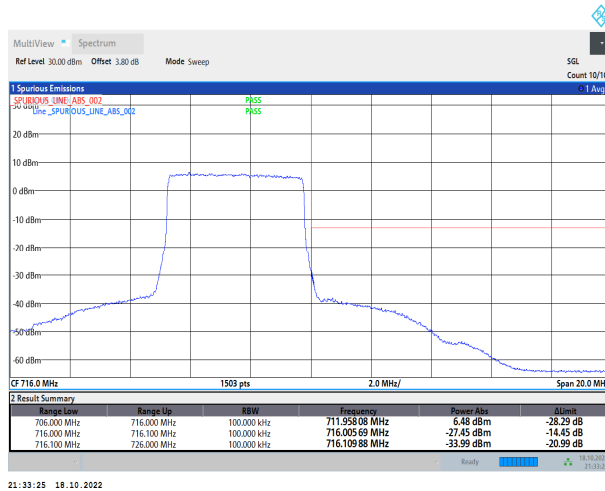
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Band12-5MHz-QPSK-23155-25RB#0

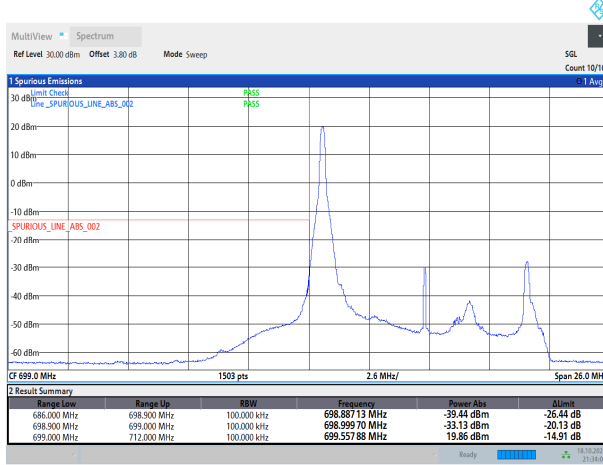


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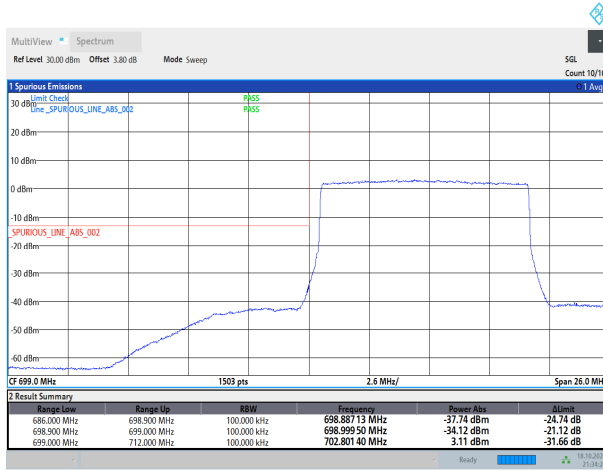
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Band12-10MHz-QPSK-23060-1RB#0



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

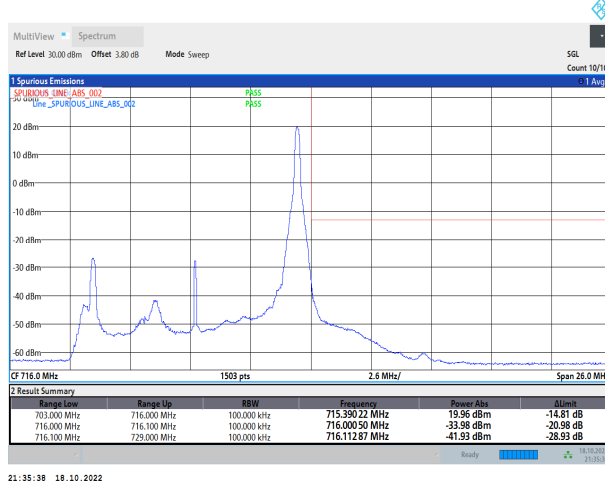


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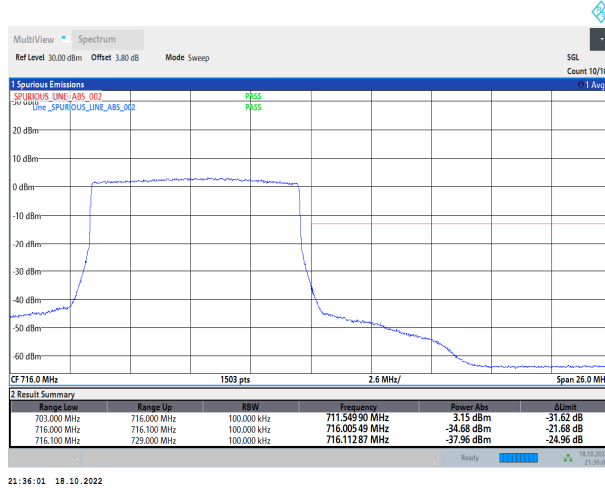
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Band12-10MHz-QPSK-23130-1RB#49



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



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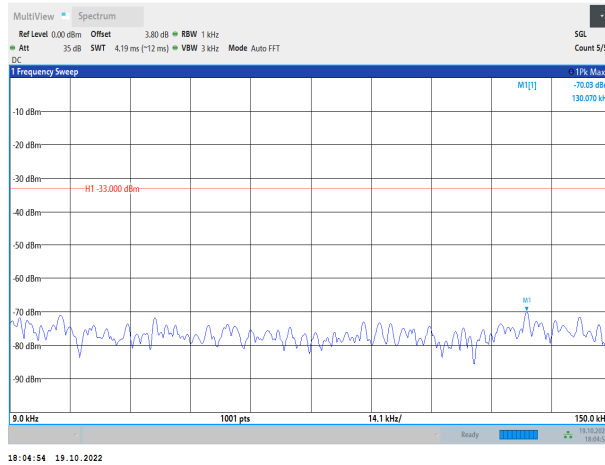
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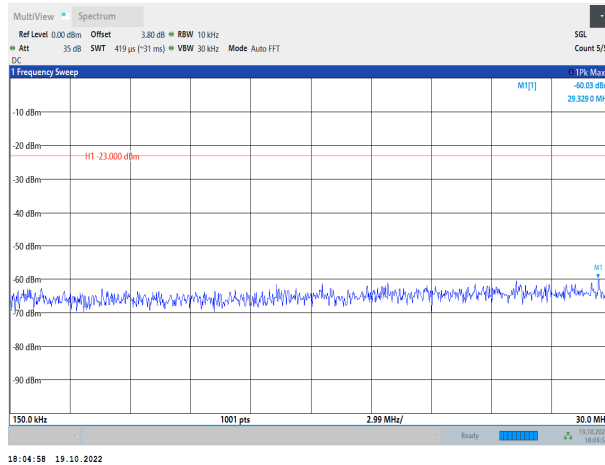
## Conducted Spurious Emission

### Test Graphs

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



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

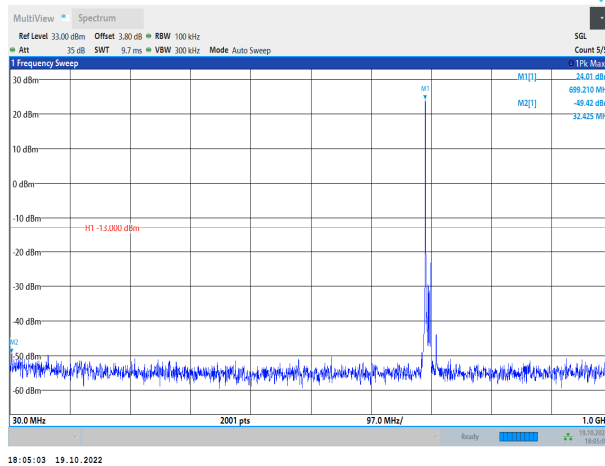


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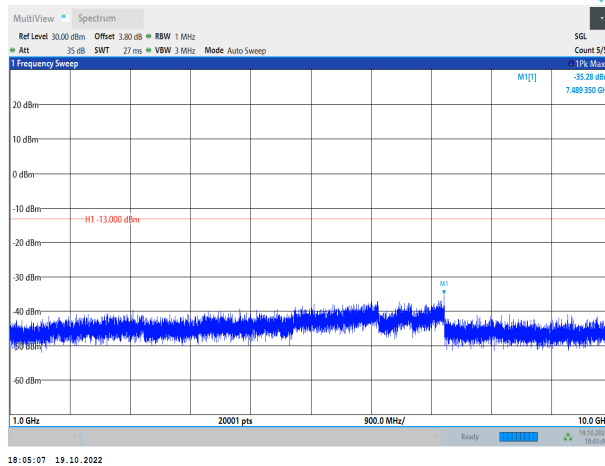
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Band12-10MHz-QPSK-23060-1RB#0-Range3:30~1000MHz



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

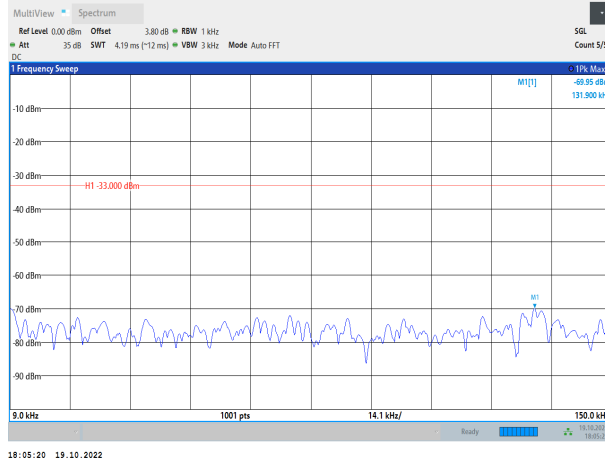


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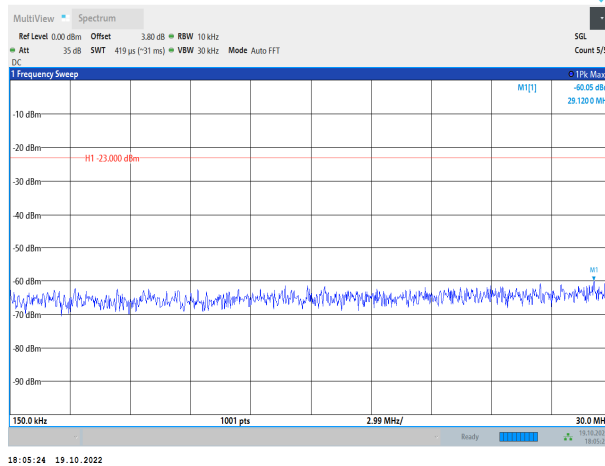
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Band12-10MHz-QPSK-23095-1RB#0-Range1:0.009~0.15MHz



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



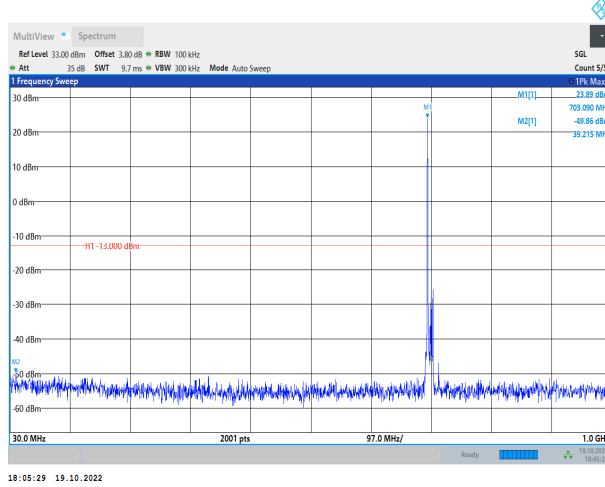
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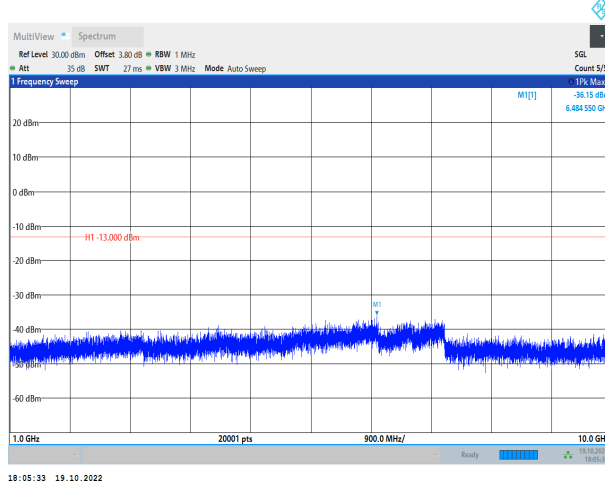
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Band12-10MHz-QPSK-23095-1RB#0-Range3:30~1000MHz



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

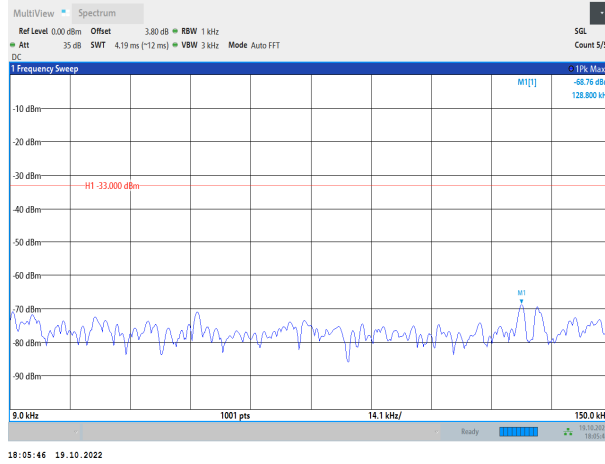


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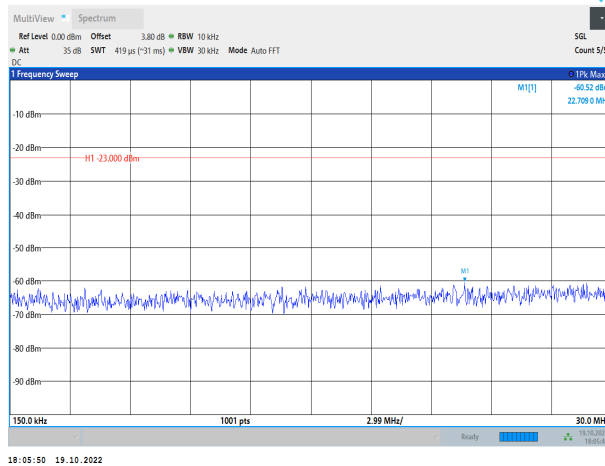
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Band12-10MHz-QPSK-23130-1RB#0-Range1:0.009~0.15MHz



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

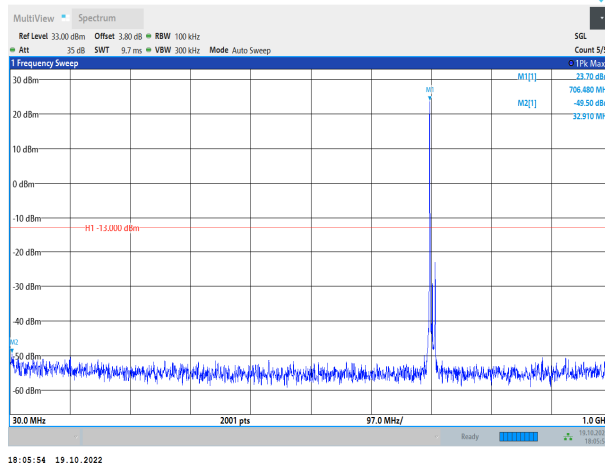


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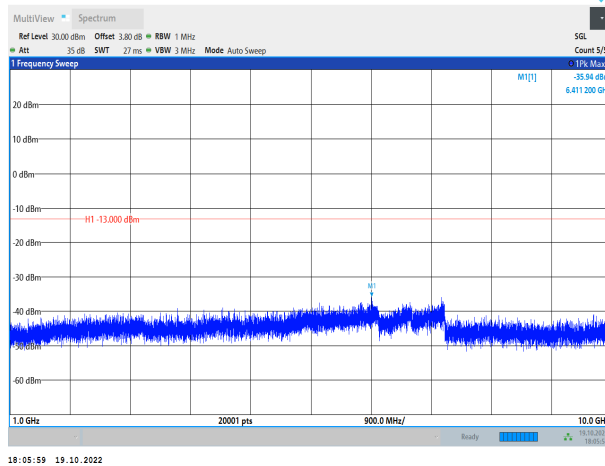
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Band12-10MHz-QPSK-23130-1RB#0-Range3:30~1000MHz



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



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## Field Strength of Spurious Radiation

Test Band = LTE Band12\_ 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	1399.1800	65.52	-48.00	25.62	-52.12	-13.00	39.12	185	168	Horizontal
2	2098.7700	53.63	-47.71	26.99	-62.36	-13.00	49.36	142	209	Horizontal
3	2798.3600	55.60	-46.92	28.48	-58.10	-13.00	45.10	320	359	Horizontal
4	3497.9500	50.99	-46.54	29.52	-61.29	-13.00	48.29	165	155	Horizontal
5	4197.5400	48.09	-45.96	31.10	-62.03	-13.00	49.03	199	117	Horizontal
6	4897.1300	49.57	-45.58	32.59	-58.68	-13.00	45.68	145	289	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	1399.1800	55.62	-48.00	25.62	-62.02	-13.00	49.02	241	0	Vertical
2	2098.7700	57.87	-47.71	26.99	-58.12	-13.00	45.12	133	175	Vertical
3	2798.3600	50.24	-46.92	28.48	-63.46	-13.00	50.46	182	347	Vertical
4	3497.9500	50.57	-46.54	29.52	-61.71	-13.00	48.71	168	269	Vertical
5	4197.5400	47.27	-45.96	31.10	-62.85	-13.00	49.85	163	0	Vertical
6	4897.1300	49.17	-45.58	32.59	-59.08	-13.00	46.08	144	356	Vertical



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Test Band = LTE Band12\_ 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	1406.1800	62.03	-48.02	25.61	-55.64	-13.00	42.64	216	55	Horizontal
2	2109.2700	56.18	-47.71	27.02	-59.76	-13.00	46.76	142	347	Horizontal
3	2812.3600	53.94	-46.88	28.53	-59.66	-13.00	46.66	155	353	Horizontal
4	3515.4500	48.70	-46.51	29.53	-63.53	-13.00	50.53	192	13	Horizontal
5	4218.5400	48.94	-45.93	31.14	-61.11	-13.00	48.11	163	93	Horizontal
6	4921.6300	48.42	-45.63	32.66	-59.81	-13.00	46.81	211	42	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	1406.1800	53.69	-48.02	25.61	-63.98	-13.00	50.98	175	79	Vertical
2	2109.2700	50.93	-47.71	27.02	-65.01	-13.00	52.01	155	310	Vertical
3	2812.3600	50.46	-46.88	28.53	-63.14	-13.00	50.14	192	255	Vertical
4	3515.4500	49.05	-46.51	29.53	-63.18	-13.00	50.18	143	348	Vertical
5	4218.5400	48.66	-45.93	31.14	-61.39	-13.00	48.39	132	91	Vertical
6	4921.6300	47.68	-45.63	32.66	-60.55	-13.00	47.55	126	357	Vertical



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Test Band = LTE Band12\_ 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	1413.1429	59.97	-48.04	25.60	-57.73	-13.00	44.73	198	54	Horizontal
2	2119.7700	51.69	-47.70	27.06	-64.21	-13.00	51.21	145	213	Horizontal
3	2826.3600	53.24	-46.83	28.60	-60.25	-13.00	47.25	126	344	Horizontal
4	3532.9500	49.29	-46.47	29.55	-62.89	-13.00	49.89	255	360	Horizontal
5	4239.5400	48.89	-45.89	31.18	-61.08	-13.00	48.08	185	359	Horizontal
6	4946.1300	48.65	-45.69	32.73	-59.57	-13.00	46.57	103	121	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	1413.1800	52.21	-48.04	25.60	-65.49	-13.00	52.49	175	2	Vertical
2	2119.7700	51.30	-47.70	27.06	-64.60	-13.00	51.60	142	6	Vertical
3	2826.3600	51.17	-46.83	28.60	-62.32	-13.00	49.32	156	332	Vertical
4	3532.9500	49.53	-46.47	29.55	-62.65	-13.00	49.65	132	13	Vertical
5	4239.5400	49.62	-45.89	31.18	-60.35	-13.00	47.35	199	1	Vertical
6	4946.1300	48.56	-45.69	32.73	-59.66	-13.00	46.66	211	246	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
Band12	10MHz	QPSK	23095	50RB#0	VL	NT	-1.60	-0.002261	PASS
Band12	10MHz	QPSK	23095	50RB#0	VN	NT	-1.10	-0.001555	PASS
Band12	10MHz	QPSK	23095	50RB#0	VH	NT	-0.50	-0.000707	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band12	10MHz	QPSK	23095	50RB#0	NV	-30	-1.40	-0.001979	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-20	-0.50	-0.000707	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-10	-1.60	-0.002261	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	0	-1.80	-0.002544	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	10	-0.60	-0.000848	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	20	-1.40	-0.001979	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	30	-0.60	-0.000848	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	40	-1.80	-0.002544	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	50	-2.60	-0.003675	PASS

---End of Attachment---



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