

# Appendix B.15

## LTE CA\_5B



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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
5-5	10MHz-10MHz	QPSK-QPSK	20450-20549	1RB#0-0RB#0	22.95	23.33	38.45	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20450-20549	50RB#0-50RB#0	21.92	22.3	38.45	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	1RB#0-0RB#0	22.94	23.32	38.45	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	21.87	22.25	38.45	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20501-20600	1RB#0-0RB#0	23.01	23.39	38.45	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20501-20600	50RB#0-50RB#0	21.76	22.14	38.45	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20450-20549	1RB#0-0RB#0	22.40	22.78	38.45	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20450-20549	50RB#0-50RB#0	20.88	21.26	38.45	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20476-20575	1RB#0-0RB#0	22.51	22.89	38.45	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20476-20575	50RB#0-50RB#0	20.87	21.25	38.45	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20501-20600	1RB#0-0RB#0	22.46	22.84	38.45	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20501-20600	50RB#0-50RB#0	20.88	21.26	38.45	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20450-20549	1RB#0-0RB#0	21.23	21.61	38.45	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20450-20549	50RB#0-50RB#0	20.91	21.29	38.45	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20476-20575	1RB#0-0RB#0	21.14	21.52	38.45	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20476-20575	50RB#0-50RB#0	20.84	21.22	38.45	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20501-20600	1RB#0-0RB#0	21.28	21.66	38.45	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20501-20600	50RB#0-50RB#0	20.86	21.24	38.45	PASS
5-5	10MHz-5MHz	QPSK-QPSK	20450-20522	1RB#0-0RB#0	22.94	23.32	38.45	PASS
5-5	10MHz-5MHz	QPSK-QPSK	20450-20522	50RB#0-25RB#0	21.76	22.14	38.45	PASS
5-5	10MHz-5MHz	QPSK-QPSK	20500-20572	1RB#0-0RB#0	22.91	23.29	38.45	PASS
5-5	10MHz-5MHz	QPSK-QPSK	20500-20572	50RB#0-25RB#0	21.74	22.12	38.45	PASS
5-5	10MHz-5MHz	QPSK-QPSK	20550-20622	1RB#0-0RB#0	22.98	23.36	38.45	PASS
5-5	10MHz-5MHz	QPSK-QPSK	20550-20622	50RB#0-25RB#0	21.73	22.11	38.45	PASS
5-5	10MHz-5MHz	16QAM-16QAM	20450-20522	1RB#0-0RB#0	22.37	22.75	38.45	PASS
5-5	10MHz-5MHz	16QAM-16QAM	20450-20522	50RB#0-25RB#0	20.77	21.15	38.45	PASS
5-5	10MHz-5MHz	16QAM-16QAM	20500-20572	1RB#0-0RB#0	22.32	22.7	38.45	PASS
5-5	10MHz-5MHz	16QAM-16QAM	20500-20572	50RB#0-25RB#0	20.85	21.23	38.45	PASS



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5-5	10MHz-5MHz	16QAM-16QAM	20550-20622	1RB#0-0RB#0	22.51	22.89	38.45	PASS
5-5	10MHz-5MHz	16QAM-16QAM	20550-20622	50RB#0-25RB#0	20.81	21.19	38.45	PASS
5-5	10MHz-5MHz	64QAM-64QAM	20450-20522	1RB#0-0RB#0	21.21	21.59	38.45	PASS
5-5	10MHz-5MHz	64QAM-64QAM	20450-20522	50RB#0-25RB#0	20.76	21.14	38.45	PASS
5-5	10MHz-5MHz	64QAM-64QAM	20500-20572	1RB#0-0RB#0	21.18	21.56	38.45	PASS
5-5	10MHz-5MHz	64QAM-64QAM	20500-20572	50RB#0-25RB#0	20.81	21.19	38.45	PASS
5-5	10MHz-5MHz	64QAM-64QAM	20550-20622	1RB#0-0RB#0	21.27	21.65	38.45	PASS
5-5	10MHz-5MHz	64QAM-64QAM	20550-20622	50RB#0-25RB#0	20.81	21.19	38.45	PASS
5-5	5MHz-10MHz	QPSK-QPSK	20428-20500	1RB#0-0RB#0	22.91	23.29	38.45	PASS
5-5	5MHz-10MHz	QPSK-QPSK	20428-20500	25RB#0-50RB#0	21.70	22.08	38.45	PASS
5-5	5MHz-10MHz	QPSK-QPSK	20478-20550	1RB#0-0RB#0	22.96	23.34	38.45	PASS
5-5	5MHz-10MHz	QPSK-QPSK	20478-20550	25RB#0-50RB#0	21.84	22.22	38.45	PASS
5-5	5MHz-10MHz	QPSK-QPSK	20528-20600	1RB#0-0RB#0	22.95	23.33	38.45	PASS
5-5	5MHz-10MHz	QPSK-QPSK	20528-20600	25RB#0-50RB#0	21.70	22.08	38.45	PASS
5-5	5MHz-10MHz	16QAM-16QAM	20428-20500	1RB#0-0RB#0	22.51	22.89	38.45	PASS
5-5	5MHz-10MHz	16QAM-16QAM	20428-20500	25RB#0-50RB#0	20.71	21.09	38.45	PASS
5-5	5MHz-10MHz	16QAM-16QAM	20478-20550	1RB#0-0RB#0	22.43	22.81	38.45	PASS
5-5	5MHz-10MHz	16QAM-16QAM	20478-20550	25RB#0-50RB#0	20.88	21.26	38.45	PASS
5-5	5MHz-10MHz	16QAM-16QAM	20528-20600	1RB#0-0RB#0	22.35	22.73	38.45	PASS
5-5	5MHz-10MHz	16QAM-16QAM	20528-20600	25RB#0-50RB#0	20.85	21.23	38.45	PASS
5-5	5MHz-10MHz	64QAM-64QAM	20428-20500	1RB#0-0RB#0	21.18	21.56	38.45	PASS
5-5	5MHz-10MHz	64QAM-64QAM	20428-20500	25RB#0-50RB#0	20.84	21.22	38.45	PASS
5-5	5MHz-10MHz	64QAM-64QAM	20478-20550	1RB#0-0RB#0	21.33	21.71	38.45	PASS
5-5	5MHz-10MHz	64QAM-64QAM	20478-20550	25RB#0-50RB#0	20.83	21.21	38.45	PASS
5-5	5MHz-10MHz	64QAM-64QAM	20528-20600	1RB#0-0RB#0	21.30	21.68	38.45	PASS
5-5	5MHz-10MHz	64QAM-64QAM	20528-20600	25RB#0-50RB#0	20.85	21.23	38.45	PASS
5-5	3MHz-5MHz	QPSK-QPSK	20416-20455	15RB#0-25RB#0	23.84	24.22	38.45	PASS
5-5	3MHz-5MHz	QPSK-QPSK	20416-20455	1RB#0-0RB#0	23.11	23.49	38.45	PASS
5-5	3MHz-5MHz	QPSK-QPSK	20501-20540	15RB#0-25RB#0	23.85	24.23	38.45	PASS
5-5	3MHz-5MHz	QPSK-QPSK	20501-20540	1RB#0-0RB#0	23.23	23.61	38.45	PASS
5-5	3MHz-5MHz	QPSK-QPSK	20586-20625	15RB#0-25RB#0	23.67	24.05	38.45	PASS
5-5	3MHz-5MHz	QPSK-QPSK	20586-20625	1RB#0-0RB#0	23.24	23.62	38.45	PASS



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5-5	3MHz-5MHz	16QAM-16QAM	20416-20455	15RB#0-25RB#0	23.35	23.73	38.45	PASS
5-5	3MHz-5MHz	16QAM-16QAM	20416-20455	1RB#0-0RB#0	23.2	23.58	38.45	PASS
5-5	3MHz-5MHz	16QAM-16QAM	20501-20540	15RB#0-25RB#0	23.09	23.47	38.45	PASS
5-5	3MHz-5MHz	16QAM-16QAM	20501-20540	1RB#0-0RB#0	23.3	23.68	38.45	PASS
5-5	3MHz-5MHz	16QAM-16QAM	20586-20625	15RB#0-25RB#0	22.87	23.25	38.45	PASS
5-5	3MHz-5MHz	16QAM-16QAM	20586-20625	1RB#0-0RB#0	23.23	23.61	38.45	PASS
5-5	3MHz-5MHz	64QAM-64QAM	20416-20455	15RB#0-25RB#0	22.49	22.87	38.45	PASS
5-5	3MHz-5MHz	64QAM-64QAM	20416-20455	1RB#0-0RB#0	23.46	23.84	38.45	PASS
5-5	3MHz-5MHz	64QAM-64QAM	20501-20540	15RB#0-25RB#0	22.13	22.51	38.45	PASS
5-5	3MHz-5MHz	64QAM-64QAM	20501-20540	1RB#0-0RB#0	23.41	23.79	38.45	PASS
5-5	3MHz-5MHz	64QAM-64QAM	20586-20625	15RB#0-25RB#0	21.92	22.3	38.45	PASS
5-5	3MHz-5MHz	64QAM-64QAM	20586-20625	1RB#0-0RB#0	23.3	23.68	38.45	PASS
5-5	5MHz-3MHz	QPSK-QPSK	20425-20464	1RB#0-0RB#0	23.18	23.56	38.45	PASS
5-5	5MHz-3MHz	QPSK-QPSK	20425-20464	25RB#0-15RB#0	23.82	24.2	38.45	PASS
5-5	5MHz-3MHz	QPSK-QPSK	20510-20549	1RB#0-0RB#0	23.17	23.55	38.45	PASS
5-5	5MHz-3MHz	QPSK-QPSK	20510-20549	25RB#0-15RB#0	23.72	24.1	38.45	PASS
5-5	5MHz-3MHz	QPSK-QPSK	20595-20634	1RB#0-0RB#0	23.17	23.55	38.45	PASS
5-5	5MHz-3MHz	QPSK-QPSK	20595-20634	25RB#0-15RB#0	23.44	23.82	38.45	PASS
5-5	5MHz-3MHz	16QAM-16QAM	20425-20464	1RB#0-0RB#0	23.37	23.75	38.45	PASS
5-5	5MHz-3MHz	16QAM-16QAM	20425-20464	25RB#0-15RB#0	23.21	23.59	38.45	PASS
5-5	5MHz-3MHz	16QAM-16QAM	20510-20549	1RB#0-0RB#0	23.3	23.68	38.45	PASS
5-5	5MHz-3MHz	16QAM-16QAM	20510-20549	25RB#0-15RB#0	22.77	23.15	38.45	PASS
5-5	5MHz-3MHz	16QAM-16QAM	20595-20634	1RB#0-0RB#0	23.06	23.44	38.45	PASS
5-5	5MHz-3MHz	16QAM-16QAM	20595-20634	25RB#0-15RB#0	22.52	22.9	38.45	PASS
5-5	5MHz-3MHz	64QAM-64QAM	20425-20464	1RB#0-0RB#0	23.42	23.8	38.45	PASS
5-5	5MHz-3MHz	64QAM-64QAM	20425-20464	25RB#0-15RB#0	22.28	22.66	38.45	PASS
5-5	5MHz-3MHz	64QAM-64QAM	20510-20549	1RB#0-0RB#0	23.58	23.96	38.45	PASS
5-5	5MHz-3MHz	64QAM-64QAM	20510-20549	25RB#0-15RB#0	21.86	22.24	38.45	PASS
5-5	5MHz-3MHz	64QAM-64QAM	20595-20634	1RB#0-0RB#0	23.55	23.93	38.45	PASS
5-5	5MHz-3MHz	64QAM-64QAM	20595-20634	25RB#0-15RB#0	21.62	22	38.45	PASS
5-5	5MHz-3MHz	256QAM-256QAM	20425-20464	1RB#0-0RB#0	21.5	21.88	38.45	PASS
5-5	5MHz-3MHz	256QAM-256QAM	20425-20464	25RB#0-15RB#0	21.38	21.76	38.45	PASS



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5-5	5MHz-3MHz	256QAM-256QAM	20510-20549	1RB#0-0RB#0	21.43	21.81	38.45	PASS
5-5	5MHz-3MHz	256QAM-256QAM	20510-20549	25RB#0-15RB#0	20.9	21.28	38.45	PASS
5-5	5MHz-3MHz	256QAM-256QAM	20595-20634	1RB#0-0RB#0	21.29	21.67	38.45	PASS
5-5	5MHz-3MHz	256QAM-256QAM	20595-20634	25RB#0-15RB#0	20.67	21.05	38.45	PASS



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## Peak-to-Average Ratio(CCDF)

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
5-5	10MHz-10MHz	QPSK-QPSK	20450-20549	50RB#0-50RB#0	6.56	13	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	6.52	13	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20501-20600	50RB#0-50RB#0	6.44	13	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20450-20549	50RB#0-50RB#0	7.48	13	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20476-20575	50RB#0-50RB#0	7.42	13	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20501-20600	50RB#0-50RB#0	7.34	13	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20450-20549	50RB#0-50RB#0	7.72	13	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20476-20575	50RB#0-50RB#0	7.70	13	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20501-20600	50RB#0-50RB#0	7.56	13	PASS

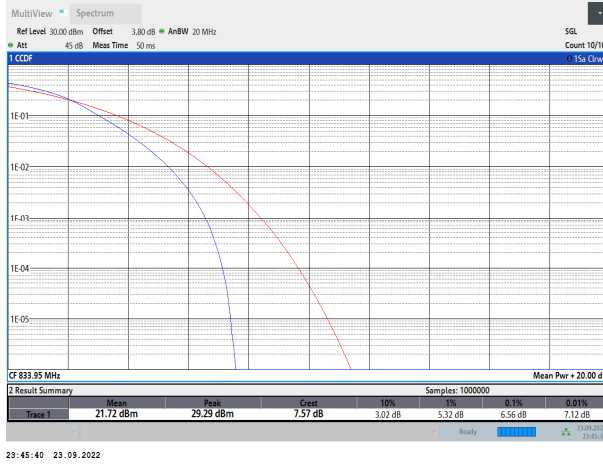


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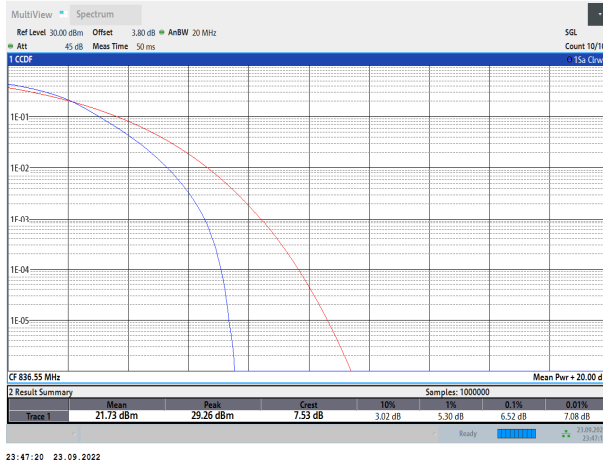
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Test Graphs

5-5-10MHz-10MHz-QPSK-QPSK-20450-20549-50RB#0-50RB#0



5-5-10MHz-10MHz-QPSK-QPSK-20476-20575-50RB#0-50RB#0

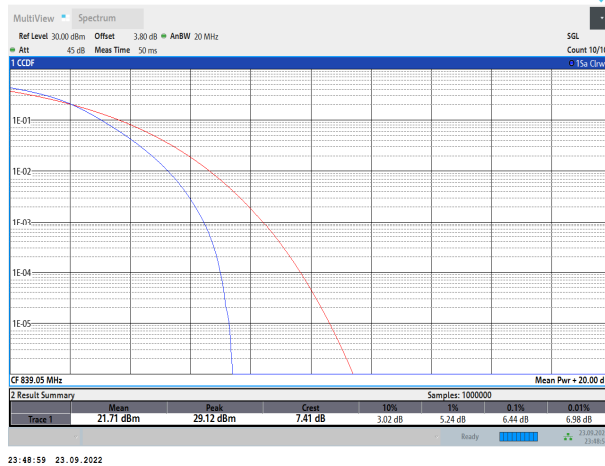


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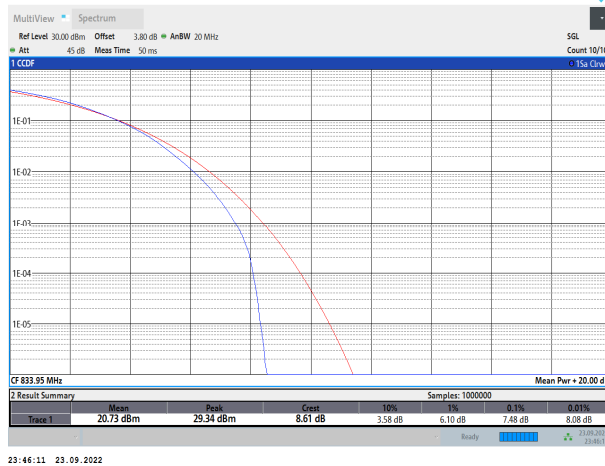
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5-5-10MHz-10MHz-QPSK-QPSK-20501-20600-50RB#0-50RB#0



5-5-10MHz-10MHz-16QAM-16QAM-20450-20549-50RB#0-50RB#0



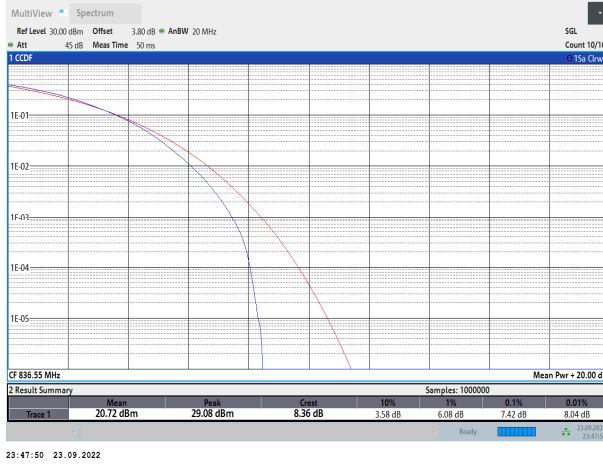
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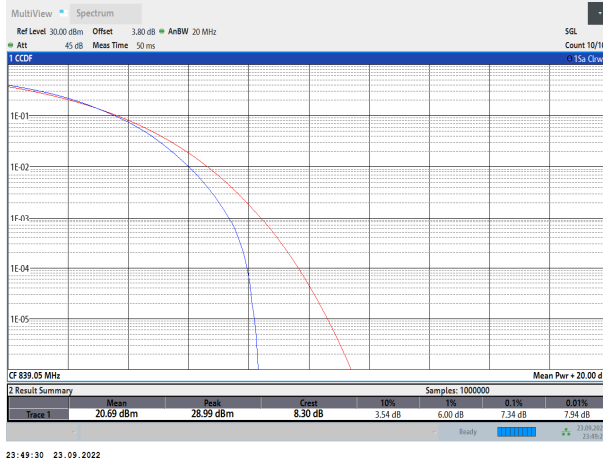
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5-5-10MHz-10MHz-16QAM-16QAM-20476-20575-50RB#0-50RB#0



5-5-10MHz-10MHz-16QAM-16QAM-20501-20600-50RB#0-50RB#0



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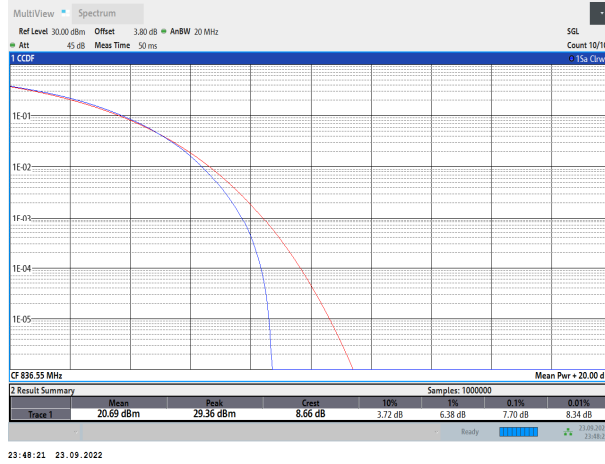
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5-5-10MHz-10MHz-64QAM-64QAM-20450-20549-50RB#0-50RB#0



5-5-10MHz-10MHz-64QAM-64QAM-20476-20575-50RB#0-50RB#0

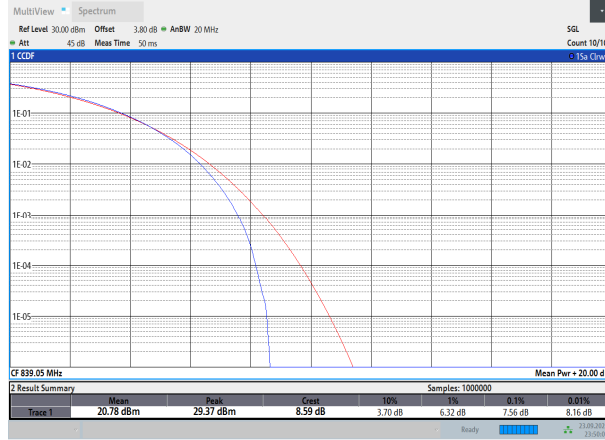


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5-5-10MHz-10MHz-64QAM-64QAM-20501-20600-50RB#0-50RB#0



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## Modulation Characteristics

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20476-20575	50RB#0-50RB#0	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20476-20575	50RB#0-50RB#0	PASS

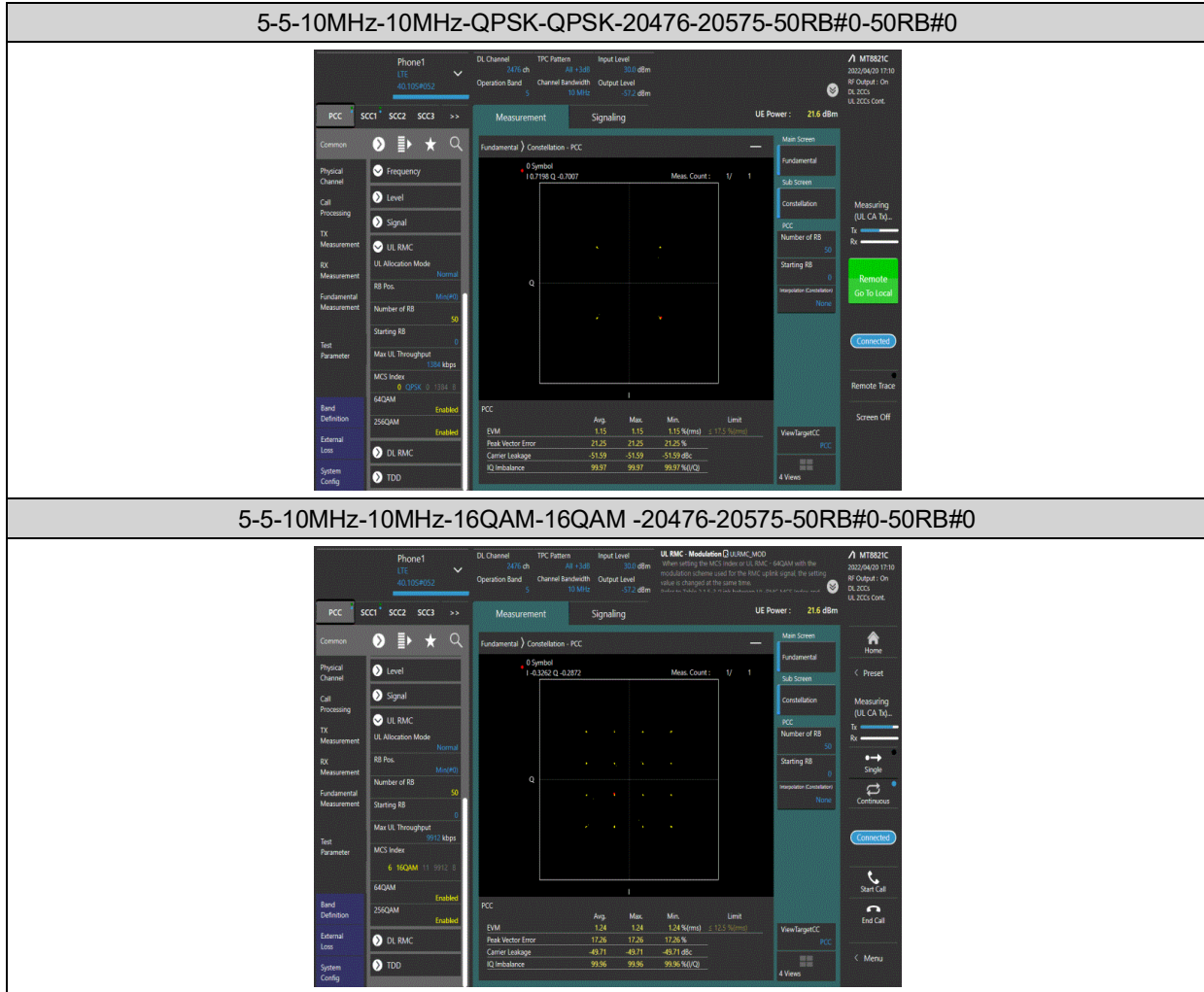


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Test Graphs

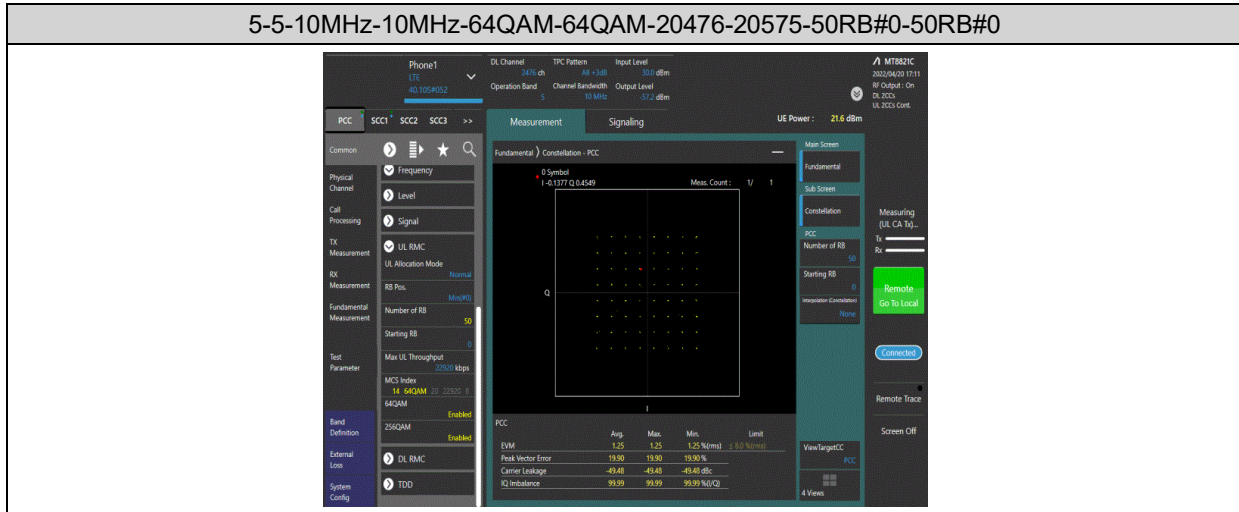


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5-5-10MHz-10MHz-64QAM-64QAM-20476-20575-50RB#0-50RB#0



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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
5-5	10MHz-10MHz	QPSK-QPSK	20450-20549	50RB#0-50RB#0	18.796	20.16	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	18.809	20.16	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20501-20600	50RB#0-50RB#0	18.761	20.12	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20450-20549	50RB#0-50RB#0	18.781	20.12	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20476-20575	50RB#0-50RB#0	18.734	20.04	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20501-20600	50RB#0-50RB#0	18.752	20.08	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20450-20549	50RB#0-50RB#0	18.757	20.20	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20476-20575	50RB#0-50RB#0	18.765	20.28	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20501-20600	50RB#0-50RB#0	18.709	20.24	PASS
5-5	10MHz-5MHz	QPSK-QPSK	20450-20522	50RB#0-25RB#0	13.831	14.82	PASS
5-5	10MHz-5MHz	QPSK-QPSK	20500-20572	50RB#0-25RB#0	13.889	14.85	PASS
5-5	10MHz-5MHz	QPSK-QPSK	20550-20622	50RB#0-25RB#0	13.837	14.82	PASS
5-5	10MHz-5MHz	16QAM-16QAM	20450-20522	50RB#0-25RB#0	13.833	14.76	PASS
5-5	10MHz-5MHz	16QAM-16QAM	20500-20572	50RB#0-25RB#0	13.864	14.79	PASS
5-5	10MHz-5MHz	16QAM-16QAM	20550-20622	50RB#0-25RB#0	13.841	14.82	PASS
5-5	10MHz-5MHz	64QAM-64QAM	20450-20522	50RB#0-25RB#0	13.858	14.88	PASS
5-5	10MHz-5MHz	64QAM-64QAM	20500-20572	50RB#0-25RB#0	13.889	14.94	PASS
5-5	10MHz-5MHz	64QAM-64QAM	20550-20622	50RB#0-25RB#0	13.85	14.82	PASS
5-5	5MHz-10MHz	QPSK-QPSK	20428-20500	25RB#0-50RB#0	13.801	14.73	PASS
5-5	5MHz-10MHz	QPSK-QPSK	20478-20550	25RB#0-50RB#0	13.823	14.70	PASS
5-5	5MHz-10MHz	QPSK-QPSK	20528-20600	25RB#0-50RB#0	13.785	14.73	PASS
5-5	5MHz-10MHz	16QAM-16QAM	20428-20500	25RB#0-50RB#0	13.786	14.70	PASS
5-5	5MHz-10MHz	16QAM-16QAM	20478-20550	25RB#0-50RB#0	13.826	14.73	PASS
5-5	5MHz-10MHz	16QAM-16QAM	20528-20600	25RB#0-50RB#0	13.786	14.64	PASS
5-5	5MHz-10MHz	64QAM-64QAM	20428-20500	25RB#0-50RB#0	13.81	14.73	PASS
5-5	5MHz-10MHz	64QAM-64QAM	20478-20550	25RB#0-50RB#0	13.84	14.70	PASS
5-5	5MHz-10MHz	64QAM-64QAM	20528-20600	25RB#0-50RB#0	13.814	14.73	PASS
5-5	3MHz-5MHz	QPSK-QPSK	20416-20455	15RB#0-25RB#0	7.472	8.19	PASS
5-5	3MHz-5MHz	QPSK-QPSK	20501-20540	15RB#0-25RB#0	7.496	8.13	PASS
5-5	3MHz-5MHz	QPSK-QPSK	20586-20625	15RB#0-25RB#0	7.485	8.11	PASS
5-5	3MHz-5MHz	16QAM-16QAM	20416-20455	15RB#0-25RB#0	7.489	8.16	PASS



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5-5	3MHz-5MHz	16QAM-16QAM	20501-20540	15RB#0-25RB#0	7.489	8.11	PASS
5-5	3MHz-5MHz	16QAM-16QAM	20586-20625	15RB#0-25RB#0	7.471	8.10	PASS
5-5	3MHz-5MHz	64QAM-64QAM	20416-20455	15RB#0-25RB#0	7.478	8.05	PASS
5-5	3MHz-5MHz	64QAM-64QAM	20501-20540	15RB#0-25RB#0	7.487	8.05	PASS
5-5	3MHz-5MHz	64QAM-64QAM	20586-20625	15RB#0-25RB#0	7.444	8.02	PASS
5-5	5MHz-3MHz	QPSK-QPSK	20425-20464	25RB#0-15RB#0	7.509	8.21	PASS
5-5	5MHz-3MHz	QPSK-QPSK	20510-20549	25RB#0-15RB#0	7.497	8.24	PASS
5-5	5MHz-3MHz	QPSK-QPSK	20595-20634	25RB#0-15RB#0	7.494	8.21	PASS
5-5	5MHz-3MHz	16QAM-16QAM	20425-20464	25RB#0-15RB#0	7.491	8.21	PASS
5-5	5MHz-3MHz	16QAM-16QAM	20510-20549	25RB#0-15RB#0	7.498	8.30	PASS
5-5	5MHz-3MHz	16QAM-16QAM	20595-20634	25RB#0-15RB#0	7.493	8.21	PASS
5-5	5MHz-3MHz	64QAM-64QAM	20425-20464	25RB#0-15RB#0	7.483	8.19	PASS
5-5	5MHz-3MHz	64QAM-64QAM	20510-20549	25RB#0-15RB#0	7.516	8.19	PASS
5-5	5MHz-3MHz	64QAM-64QAM	20595-20634	25RB#0-15RB#0	7.481	8.21	PASS



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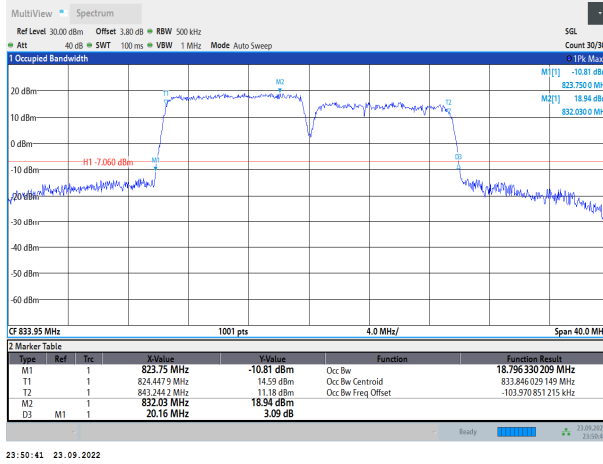
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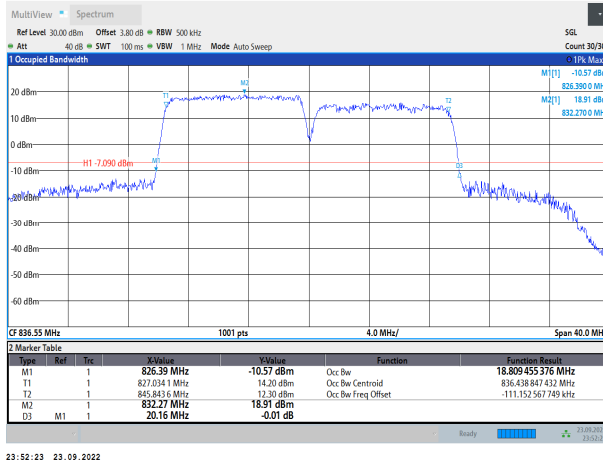
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t (86-512) 62992980 sgs.china@sgs.com

Test Graphs

5-5-10MHz-10MHz-QPSK-QPSK-20450-20549-50RB#0-50RB#0



5-5-10MHz-10MHz-QPSK-QPSK-20476-20575-50RB#0-50RB#0

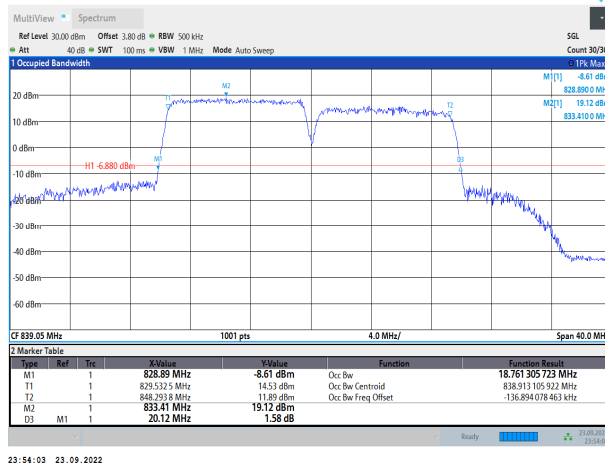


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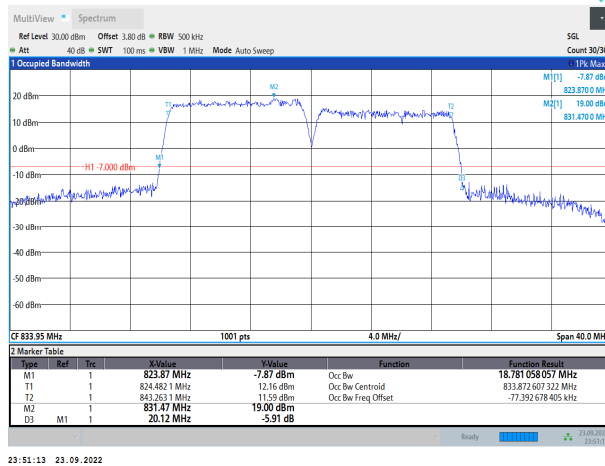
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5-5-10MHz-10MHz-QPSK-QPSK-20501-20600-50RB#0-50RB#0



5-5-10MHz-10MHz-16QAM-16QAM-20450-20549-50RB#0-50RB#0

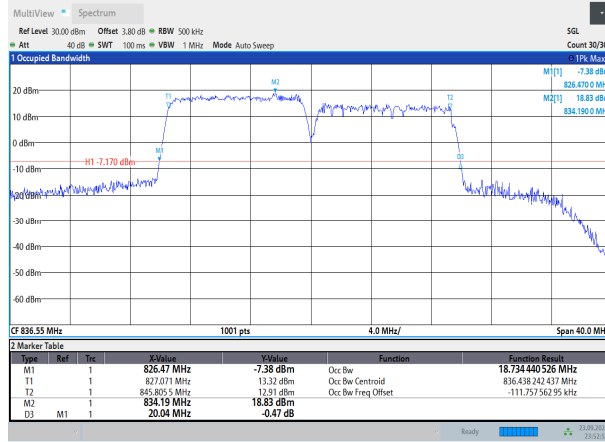


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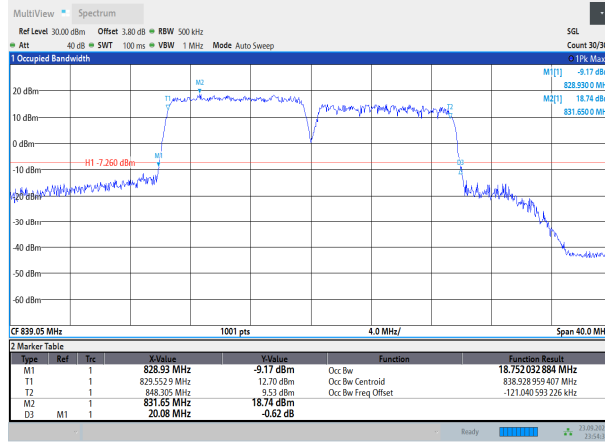
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5-5-10MHz-10MHz-16QAM-16QAM-20476-20575-50RB#0-50RB#0



23:52:54 23.09.2022

5-5-10MHz-10MHz-16QAM-16QAM-20501-20600-50RB#0-50RB#0



23:54:34 23.09.2022

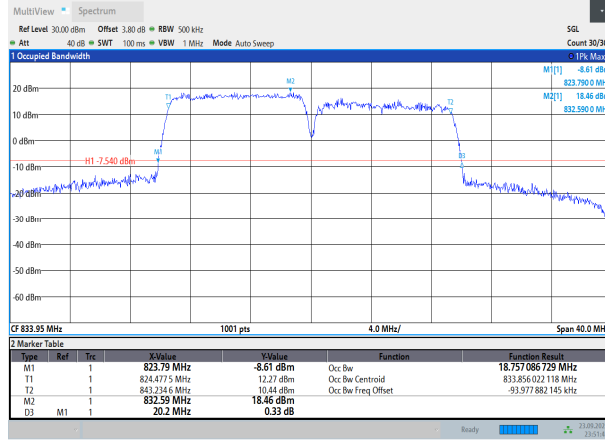


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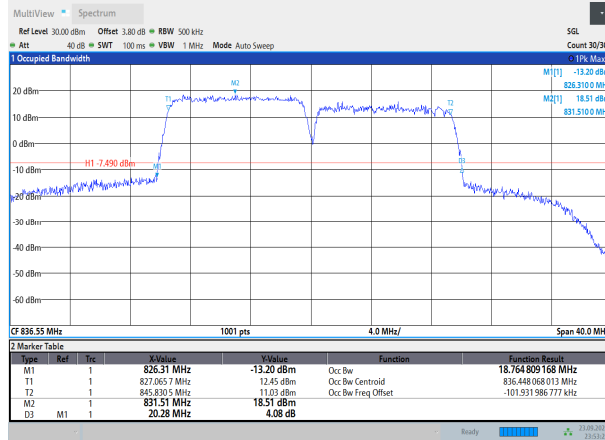
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5-5-10MHz-10MHz-64QAM-64QAM-20450-20549-50RB#0-50RB#0



23:51:44 23.09.2022

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23:53:26 23.09.2022



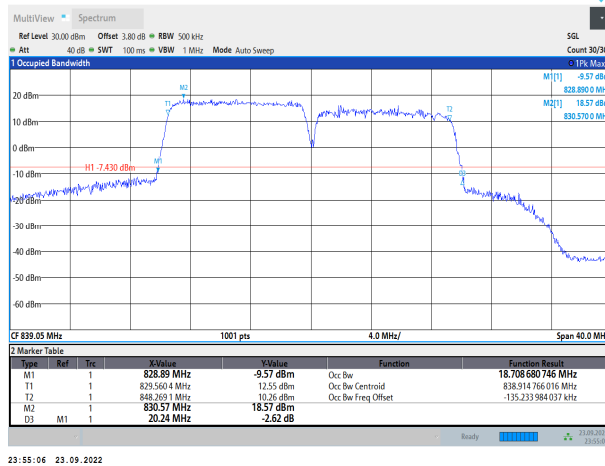
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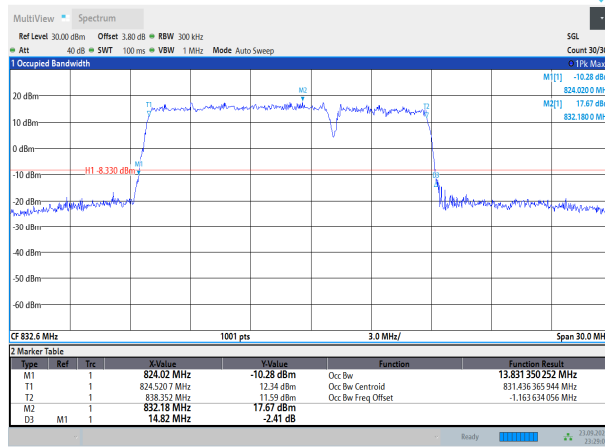


5-5-10MHz-10MHz-64QAM-64QAM-20501-20600-50RB#0-50RB#0



23:55:06 23.09.2022

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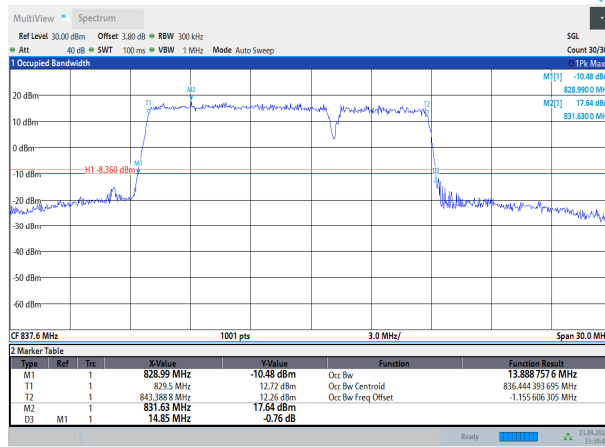


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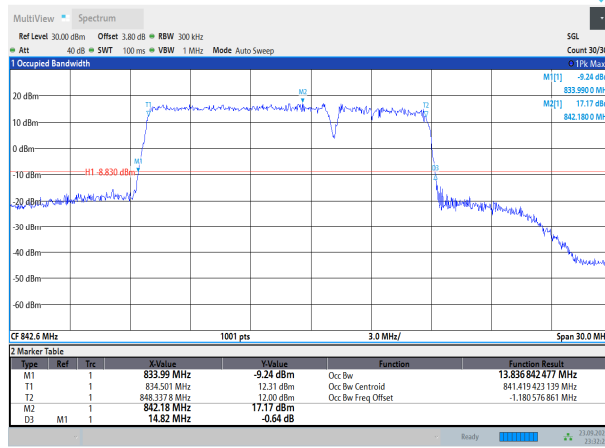
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5-5-10MHz-5MHz-QPSK-QPSK-20500-20572-50RB#0-25RB#0



23:30:47 23.09.2022

5-5-10MHz-5MHz-QPSK-QPSK-20550-20622-50RB#0-25RB#0



23:32:29 23.09.2022

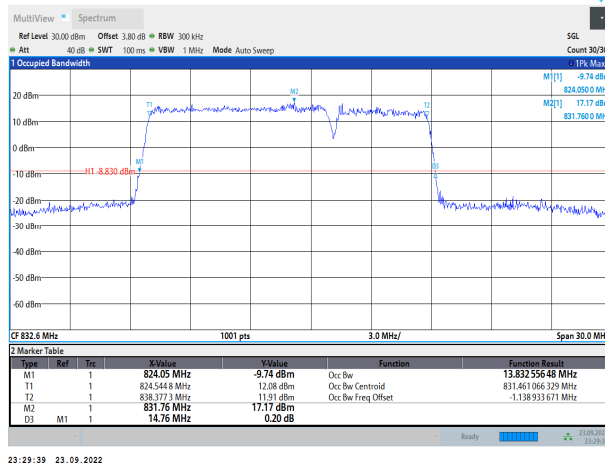


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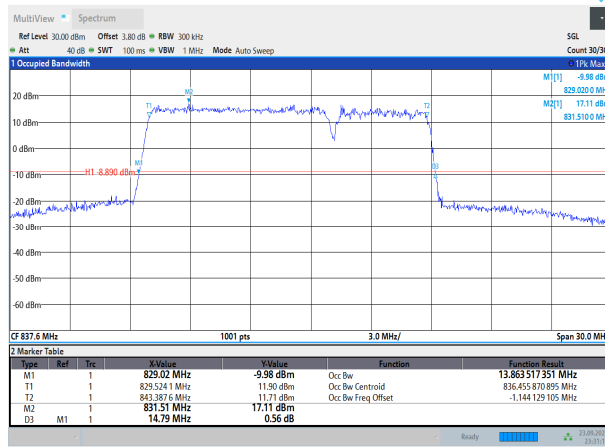
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5-5-10MHz-5MHz-16QAM-16QAM-20450-20522-50RB#0-25RB#0



23:29:39 23.09.2022

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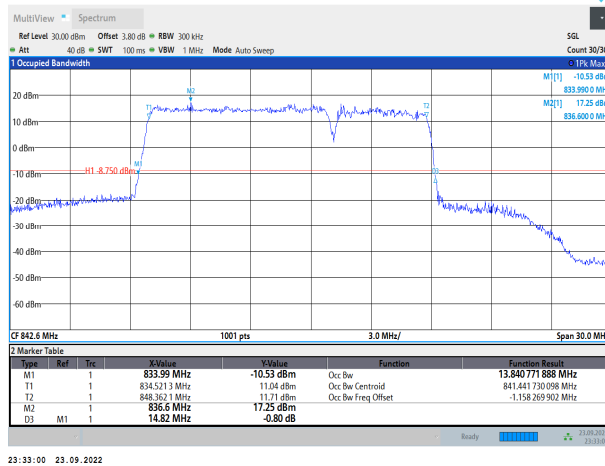


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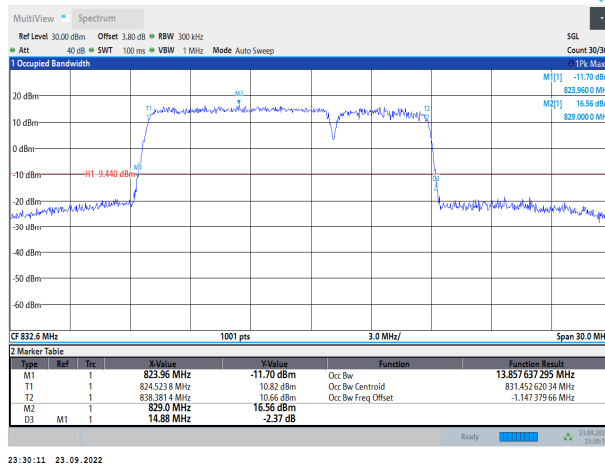
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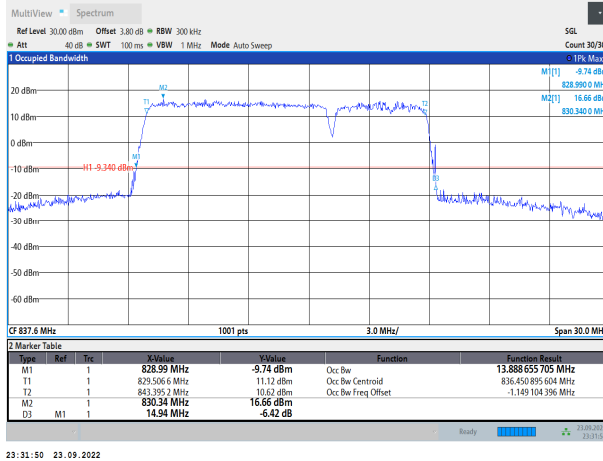


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5-5-10MHz-5MHz-64QAM-64QAM-20550-20622-50RB#0-25RB#0

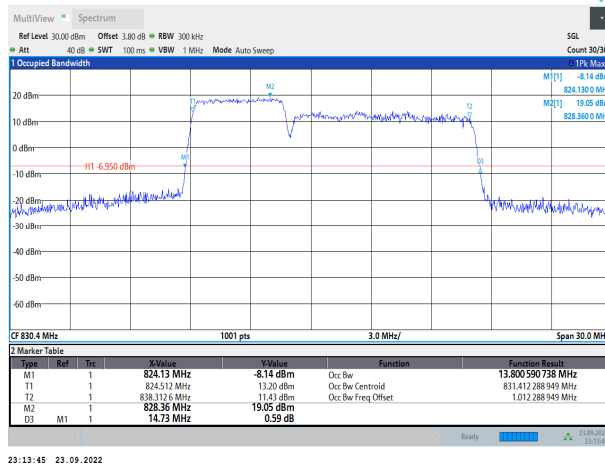


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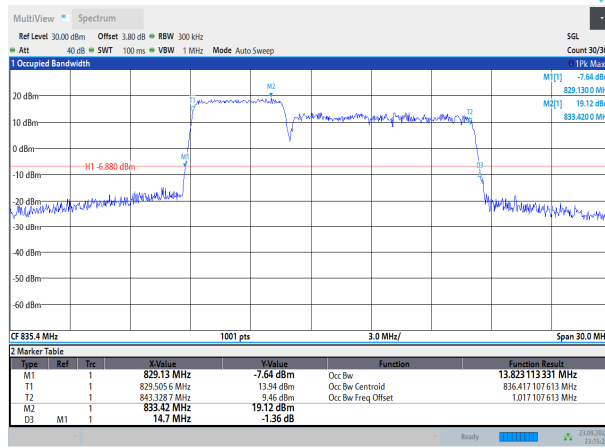
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5-5-5MHz-10MHz-QPSK-QPSK-20428-20500-25RB#0-50RB#0



23:19:45 23.09.2022

5-5-5MHz-10MHz-QPSK-QPSK-20478-20550-25RB#0-50RB#0



23:15:24 23.09.2022



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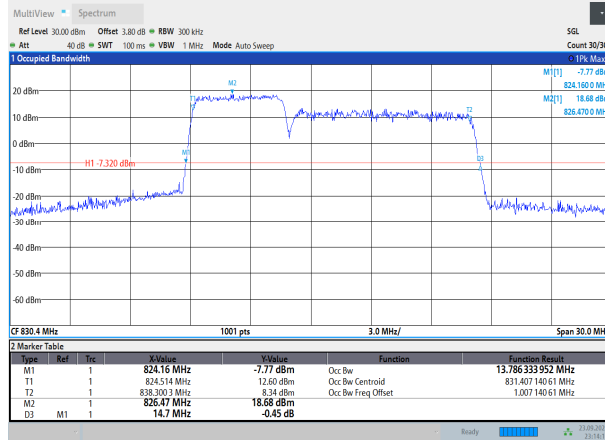


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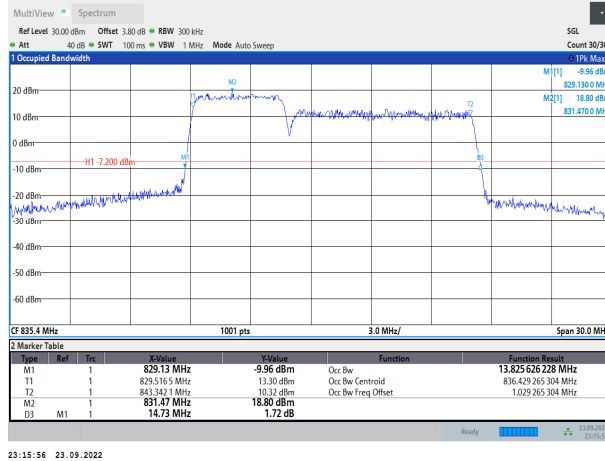


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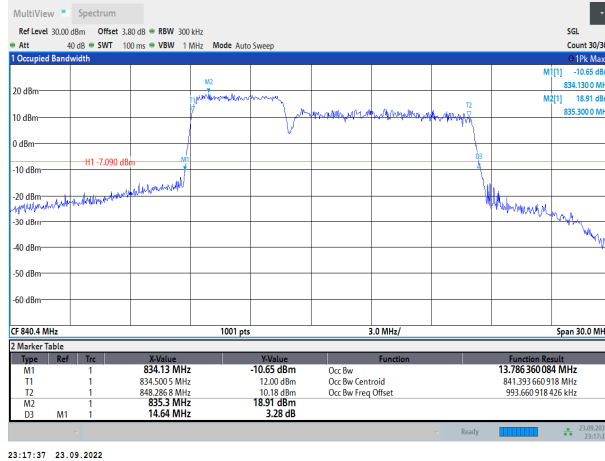
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5-5-5MHz-10MHz-16QAM-16QAM-20478-20550-25RB#0-50RB#0



5-5-5MHz-10MHz-16QAM-16QAM-20528-20600-25RB#0-50RB#0

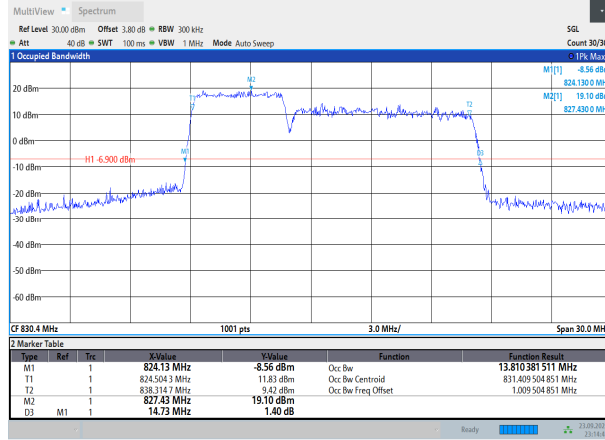


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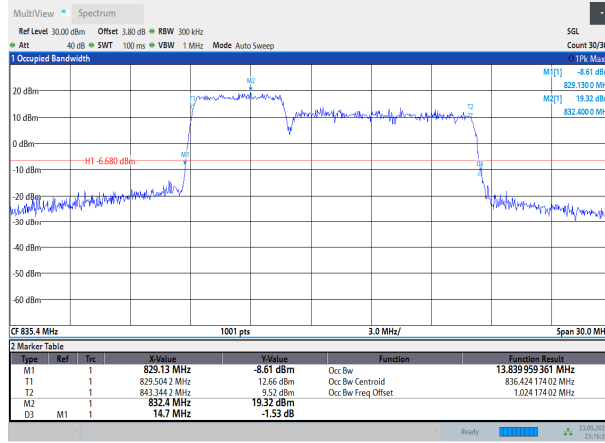
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5-5-5MHz-10MHz-64QAM-64QAM-20428-20500-25RB#0-50RB#0



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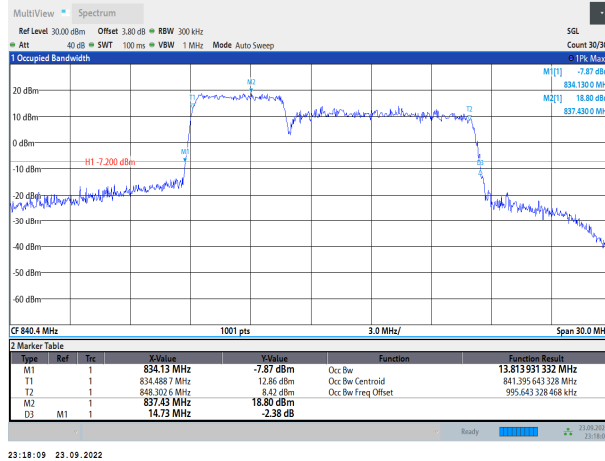


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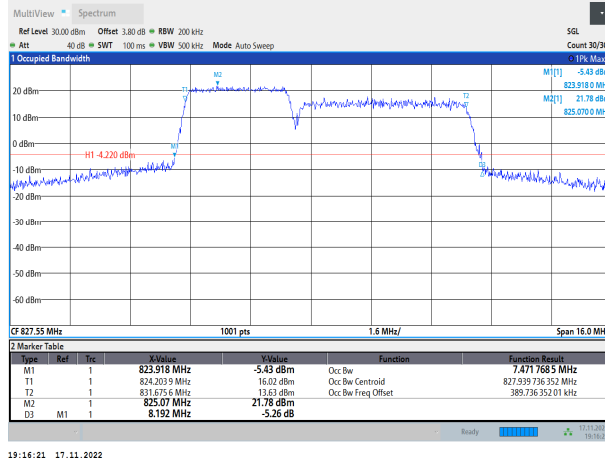
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5-5-5MHz-10MHz-64QAM-64QAM-20528-20600-25RB#0-50RB#0



5-5-3MHz-5MHz-QPSK-QPSK-20416-20455-15RB#0-25RB#0

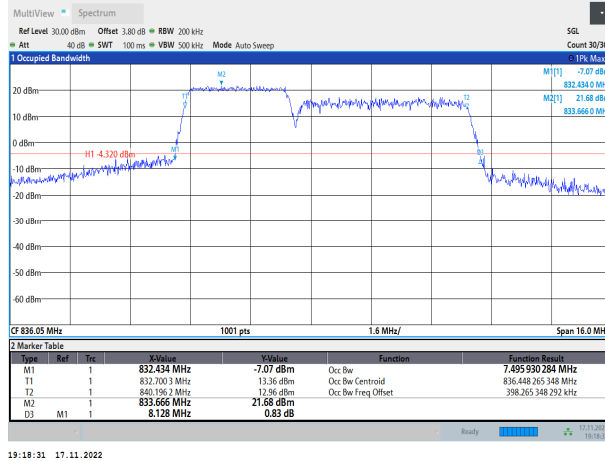


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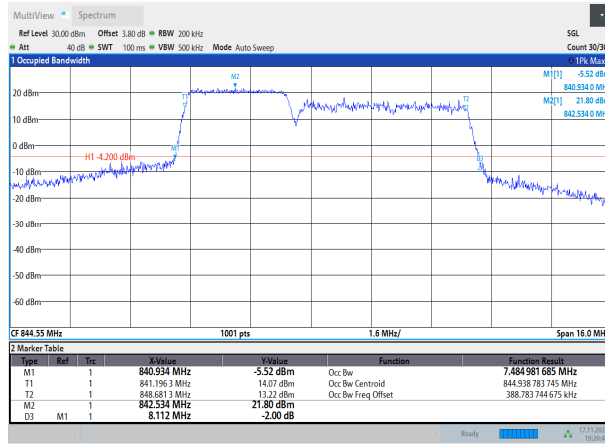
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5-5-3MHz-5MHz-QPSK-QPSK-20540-15RB#0-25RB#0



19:18:31 17.11.2022

5-5-3MHz-5MHz-QPSK-QPSK-20586-20625-15RB#0-25RB#0



19:20:43 17.11.2022



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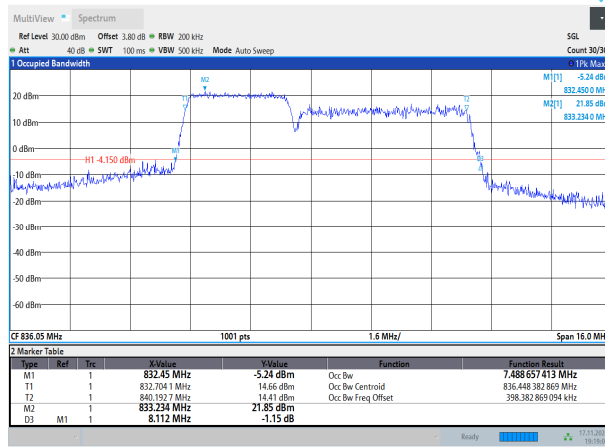
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5-5-3MHz-5MHz-16QAM-16QAM-20416-20455-15RB#0-25RB#0



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19:19:03 17.11.2022



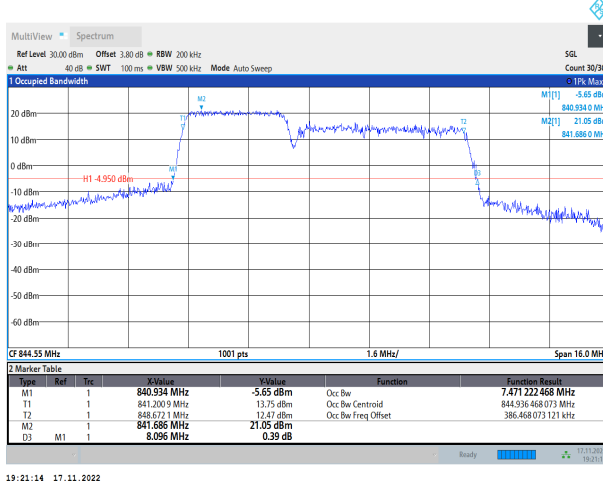
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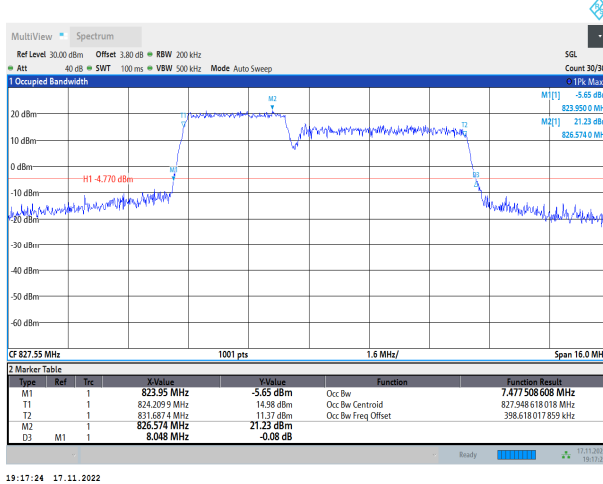
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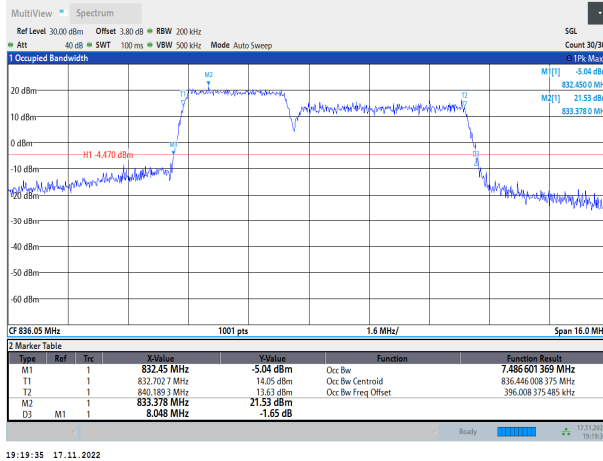


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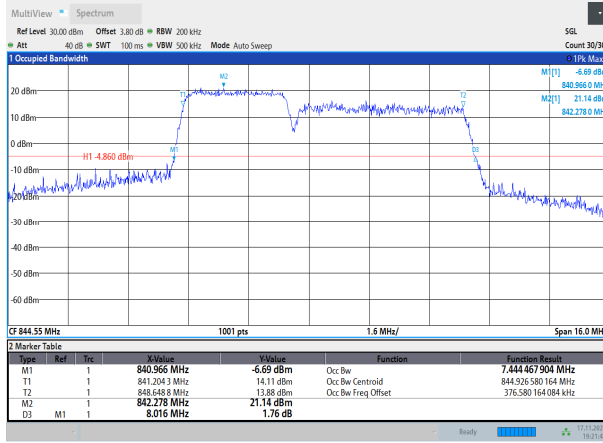
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5-5-3MHz-5MHz-64QAM-64QAM-20501-20540-15RB#0-25RB#0



19:19:35 17.11.2022

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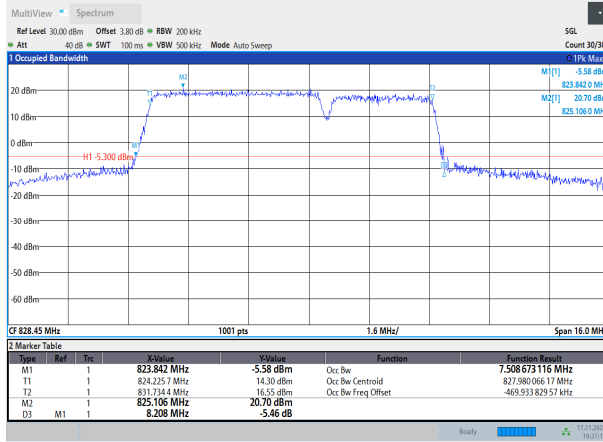


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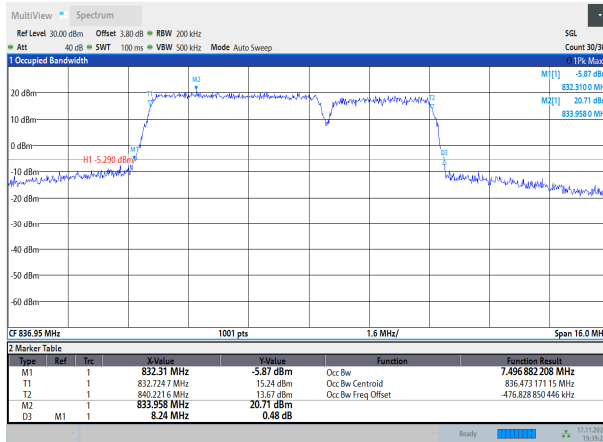
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5-5-5MHz-3MHz-QPSK-QPSK-20425-20464-25RB#0-15RB#0



19:37:18 17.11.2022

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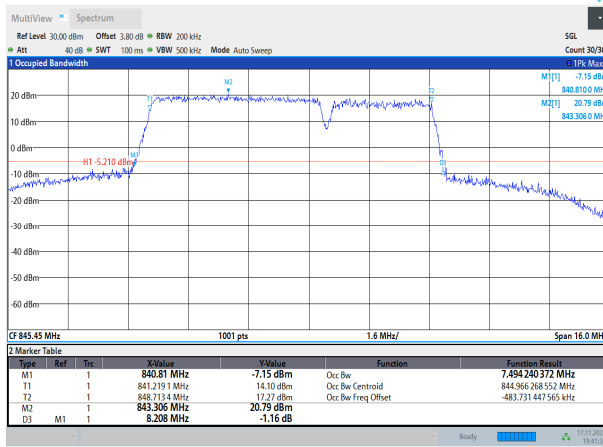


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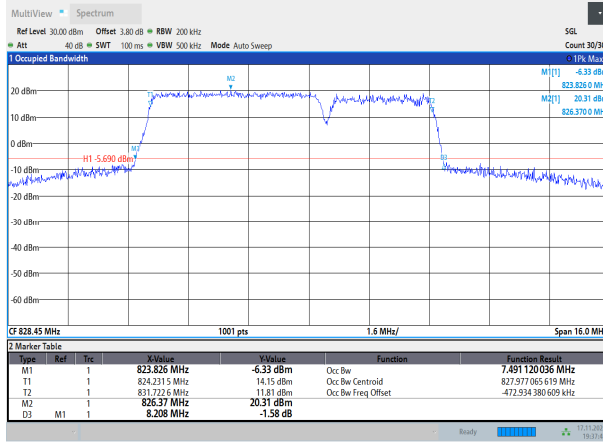
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19:41:39 17.11.2022

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19:37:49 17.11.2022

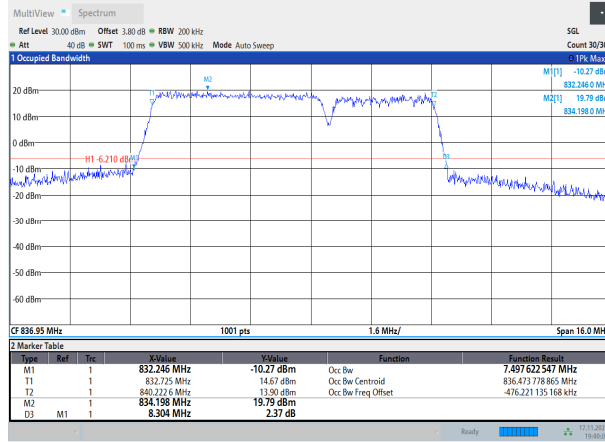


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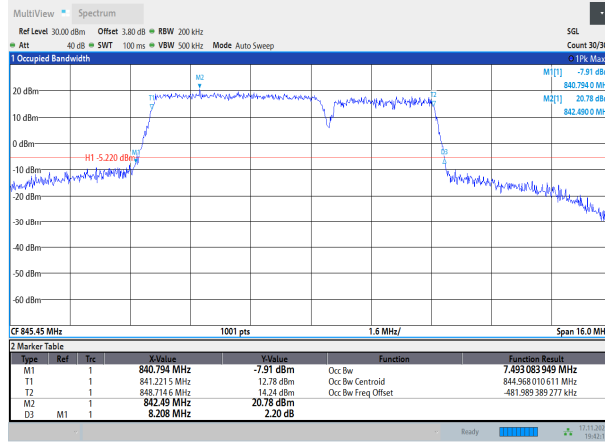
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19:40:00 17.11.2022

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19:42:11 17.11.2022

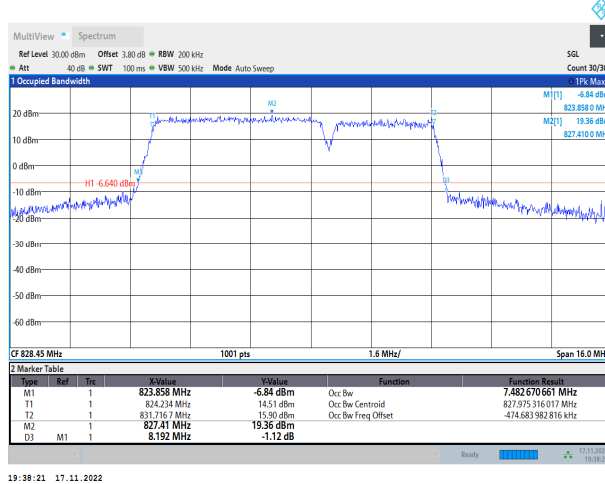


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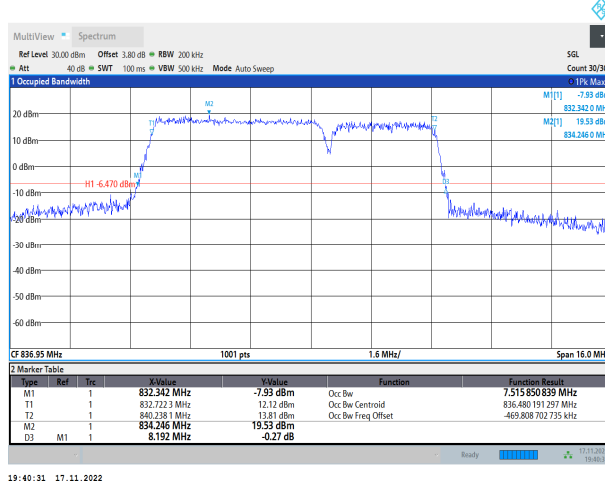
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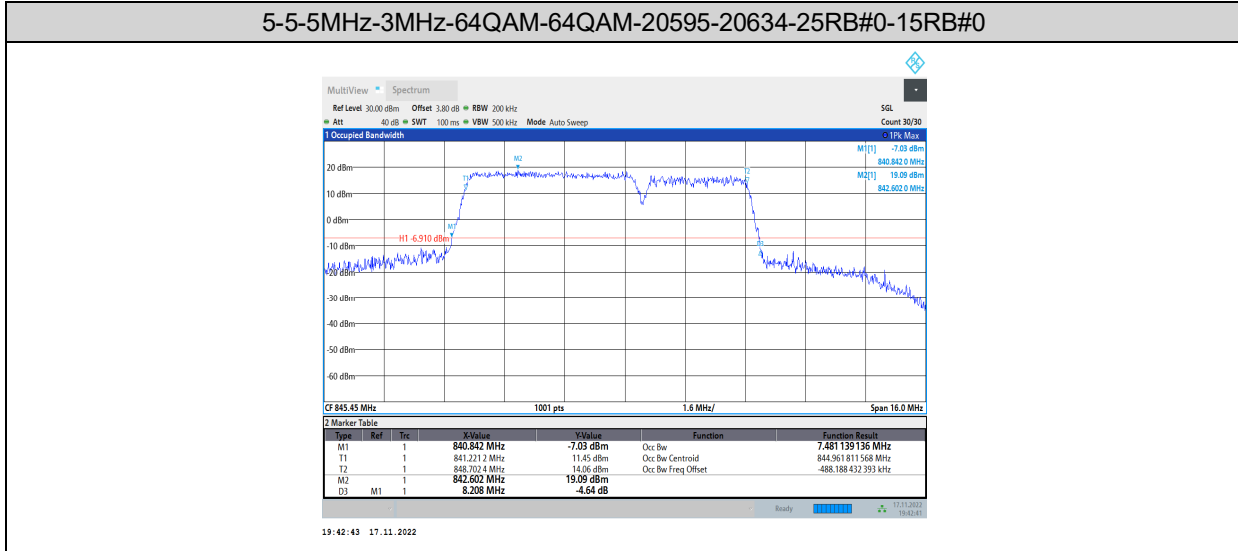
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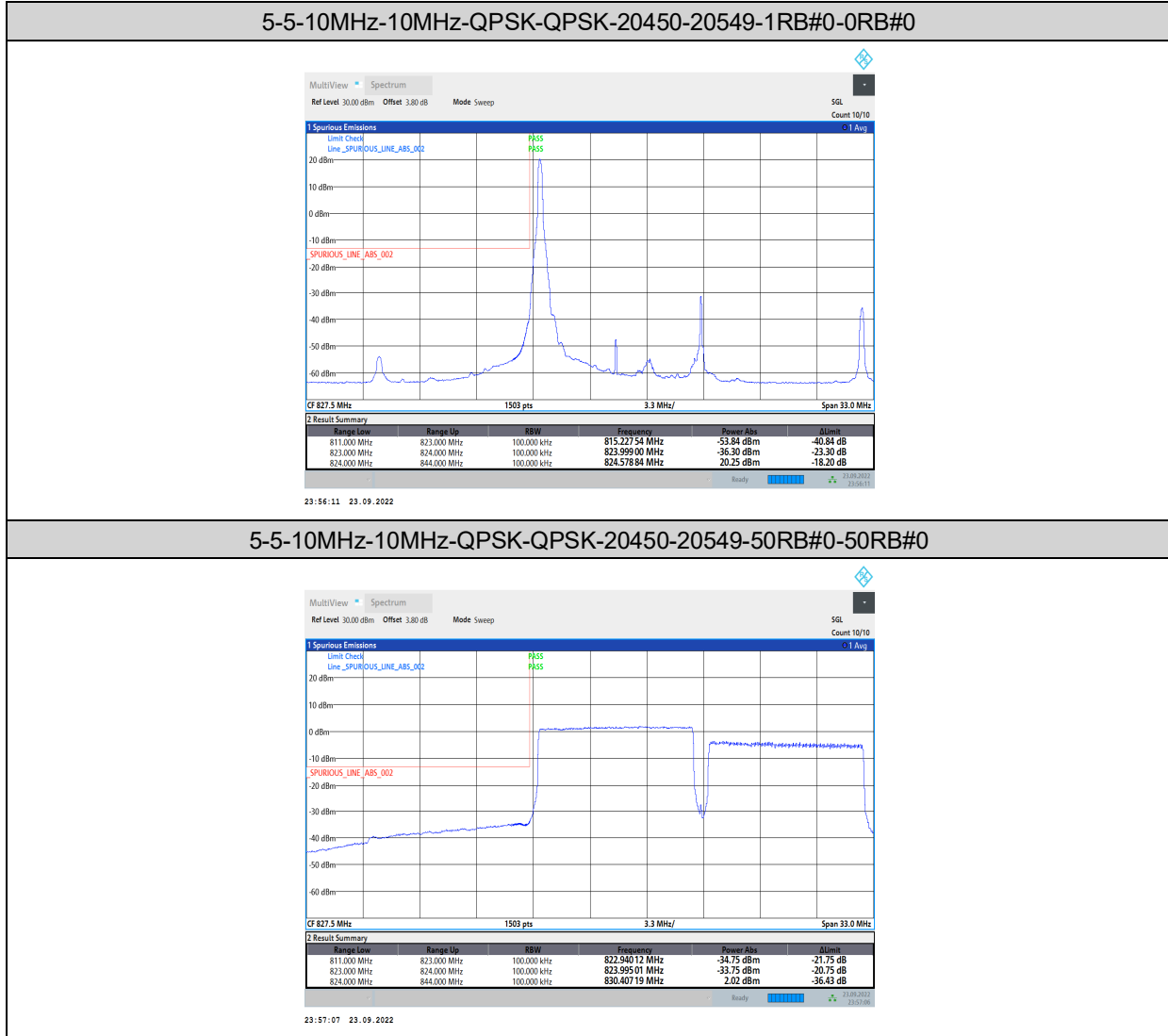
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## Band Edge

## Test Graphs

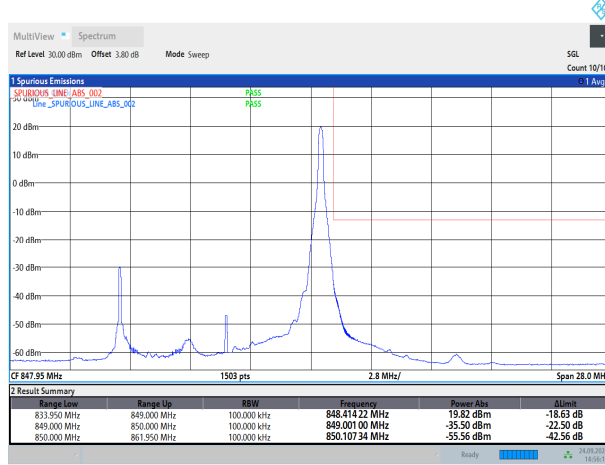


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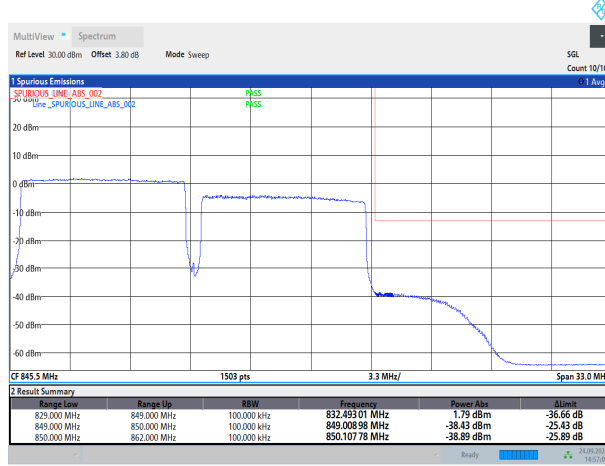
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5-5-10MHz-10MHz-QPSK-QPSK-20501-20600-0RB#0-1RB#49



14:56:10 24.09.2022

5-5-10MHz-10MHz-QPSK-QPSK-20501-20600-50RB#0-50RB#0



14:57:06 24.09.2022

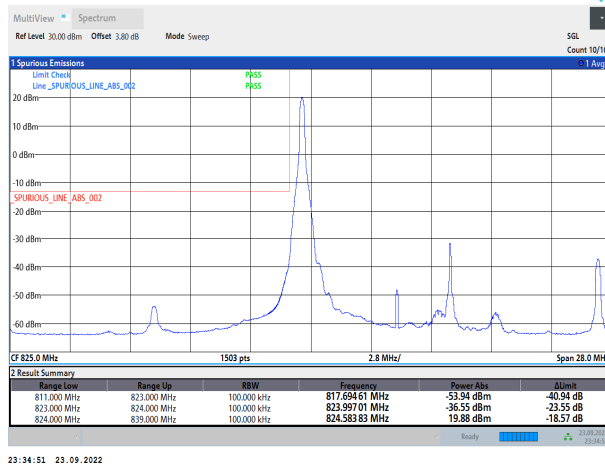


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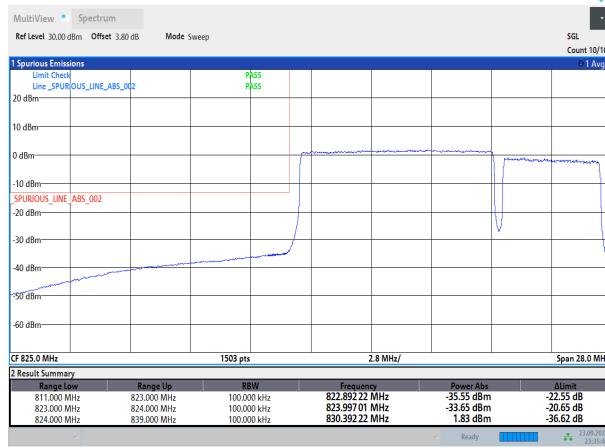
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5-5-10MHz-5MHz-QPSK-QPSK-20450-20522-1RB#0-0RB#0



23:34:51 23.09.2022

5-5-10MHz-5MHz-QPSK-QPSK-20450-20522-50RB#0-25RB#0



23:35:47 23.09.2022

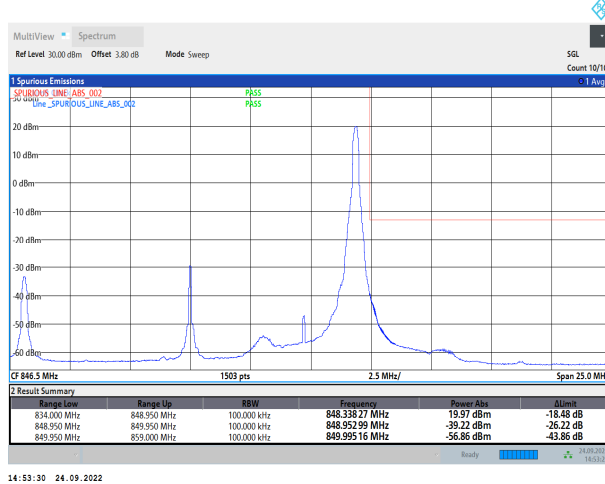


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5-5-10MHz-5MHz-QPSK-QPSK-20550-20622-0RB#0-1RB#24



14:53:30 24.09.2022

5-5-10MHz-5MHz-QPSK-QPSK-20550-20622-50RB#0-25RB#0



14:54:26 24.09.2022

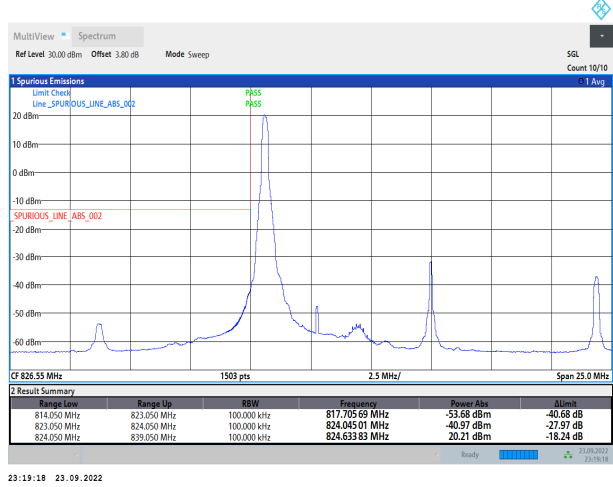


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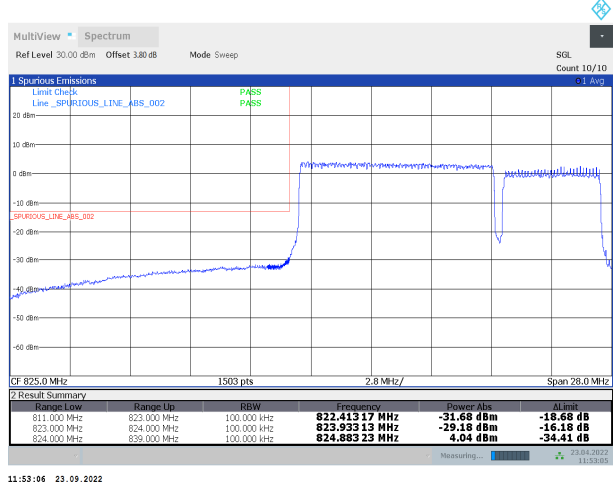
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5-5-5MHz-10MHz-QPSK-QPSK-20428-20500-1RB#0-0RB#0



5-5-5MHz-10MHz-QPSK-QPSK-20528-20600-25RB#0-50RB#0



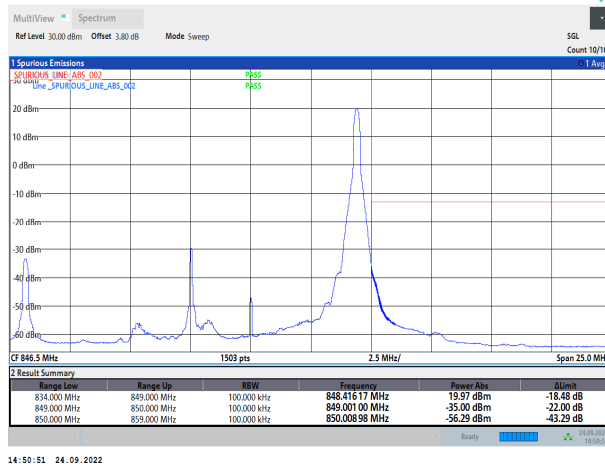
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5-5-5MHz-10MHz-QPSK-QPSK-20528-20600-0RB#0-1RB#49



14:50:51 24.09.2022

5-5-5MHz-10MHz-QPSK-QPSK-20528-20600-25RB#0-50RB#0



14:51:47 24.09.2022

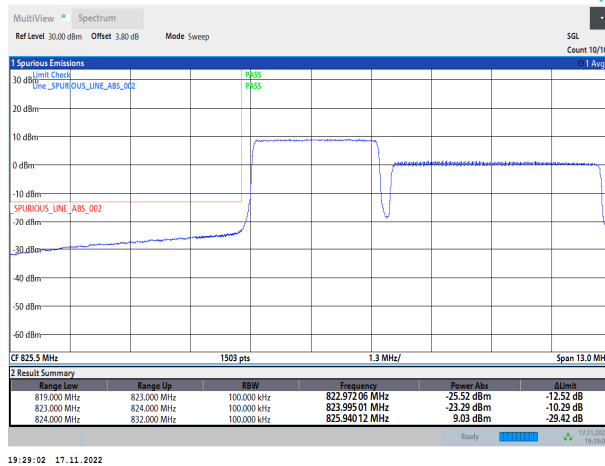


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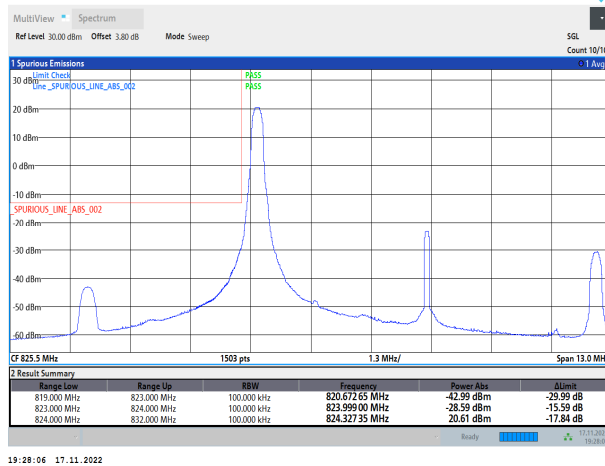
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5-5-3MHz-5MHz-QPSK-QPSK-20416-20455-15RB#0-25RB#0



5-5-3MHz-5MHz-QPSK-QPSK-20416-20455-1RB#0-0RB#0

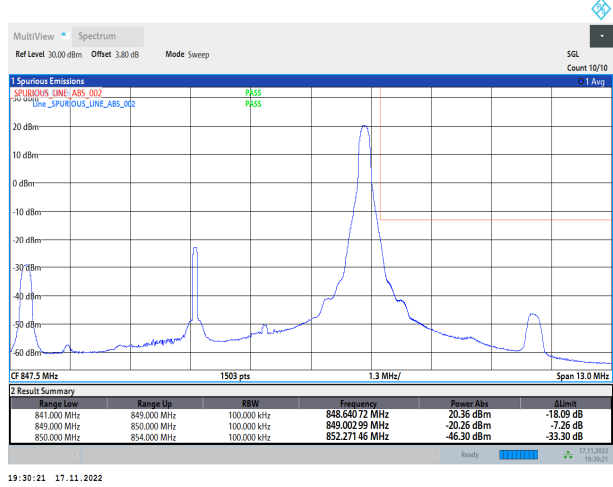


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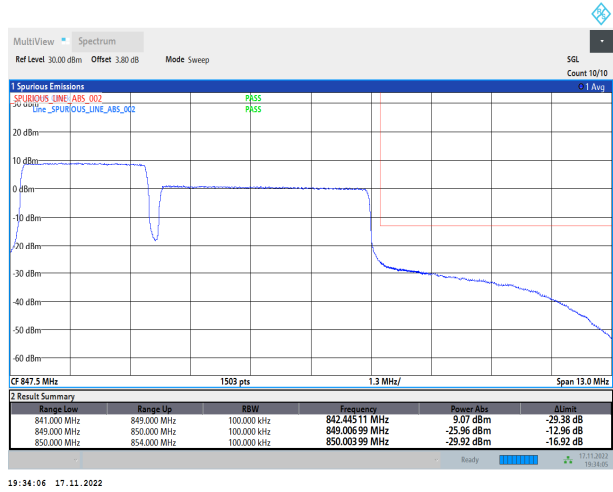
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5-5-3MHz-5MHz-QPSK-QPSK-20586-20625-0RB#0-1RB#24



5-5-3MHz-5MHz-QPSK-QPSK-20586-20625-15RB#0-25RB#0

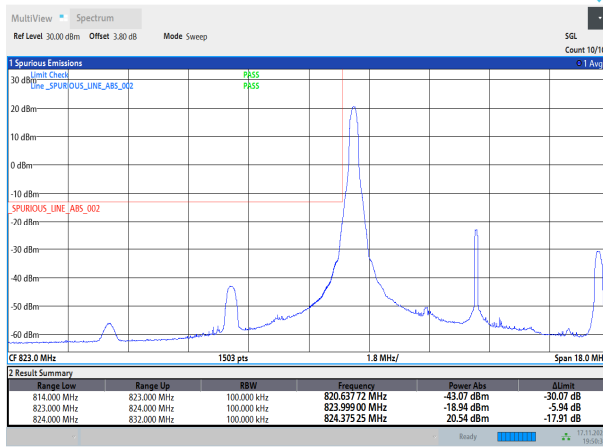


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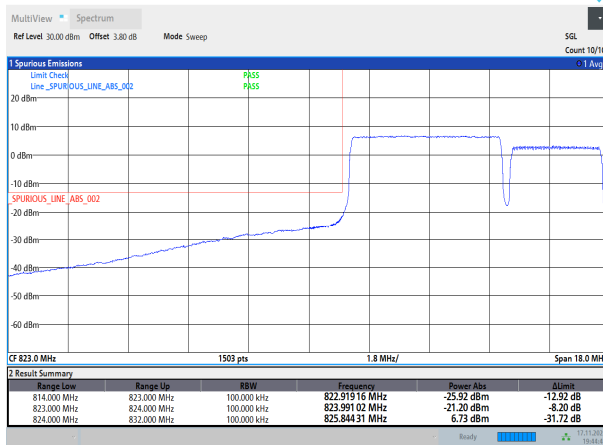
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5-5-5MHz-3MHz-QPSK-QPSK-20425-20464-1RB#0-0RB#0



19:50:38 17.11.2022

5-5-5MHz-3MHz-QPSK-QPSK-20425-20464-25RB#0-15RB#0



19:44:50 17.11.2022

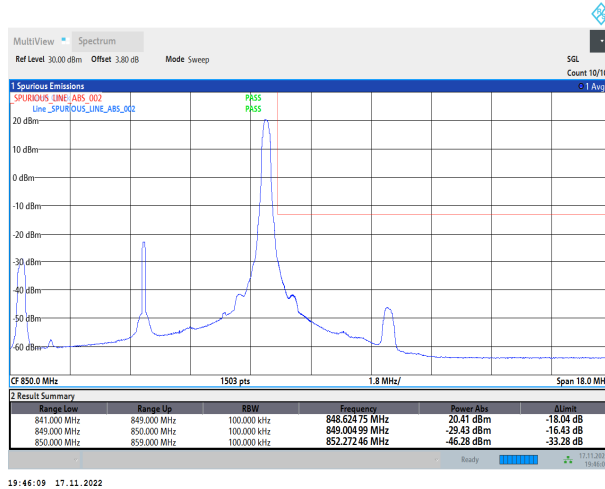


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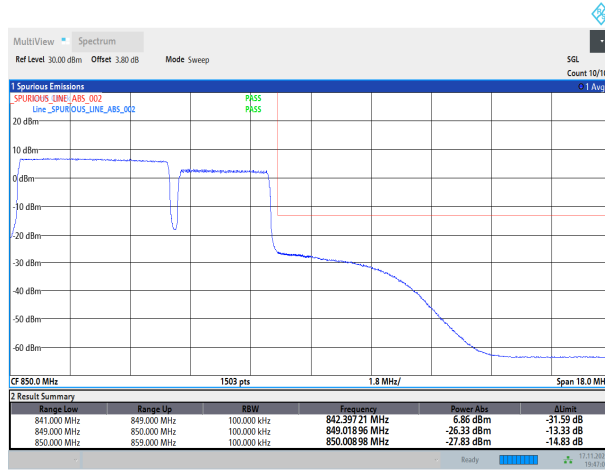
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5-5-5MHz-3MHz-QPSK-QPSK-20595-20634-0RB#0-1RB#14



19:46:09 17.11.2022

5-5-5MHz-3MHz-QPSK-QPSK-20595-20634-25RB#0-15RB#0



19:47:05 17.11.2022



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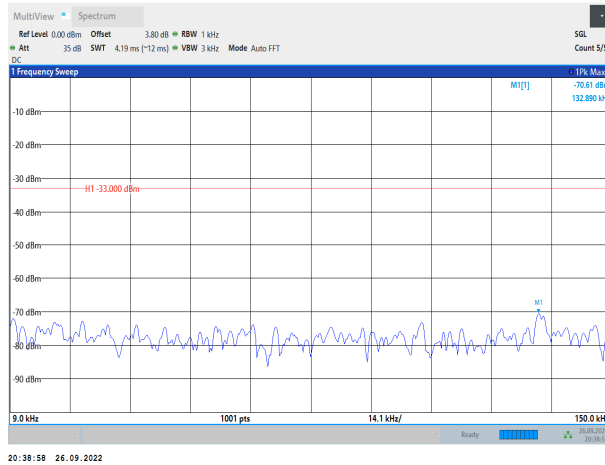
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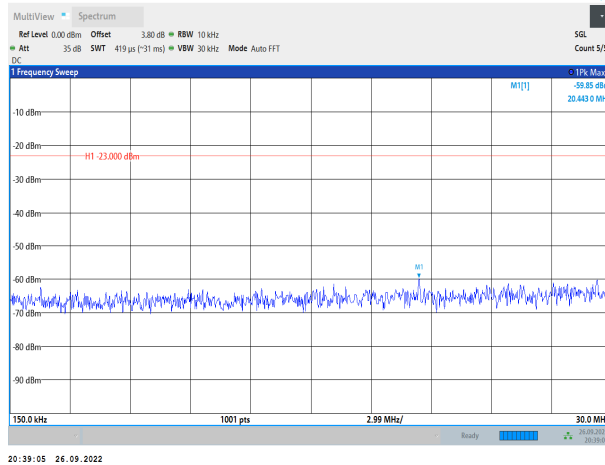
## Conducted Spurious Emission

### Test Graphs

5-5-10MHz-10MHz-QPSK-QPSK-20450-20549-1RB#0-0RB#0-0.009~0.15MHz



5-5-10MHz-10MHz-QPSK-QPSK-20450-20549-1RB#0-0RB#0-0.15~30MHz



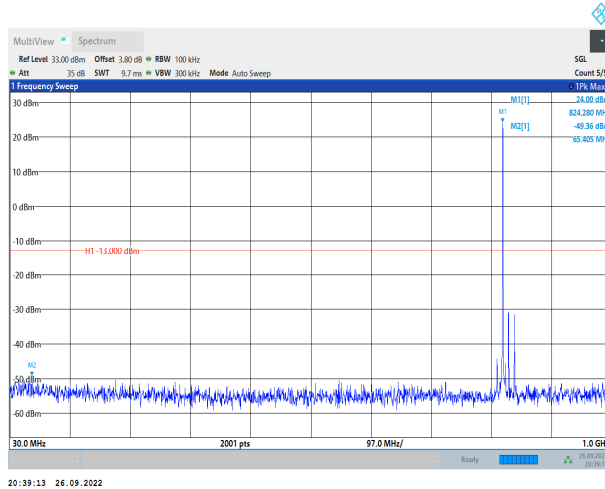
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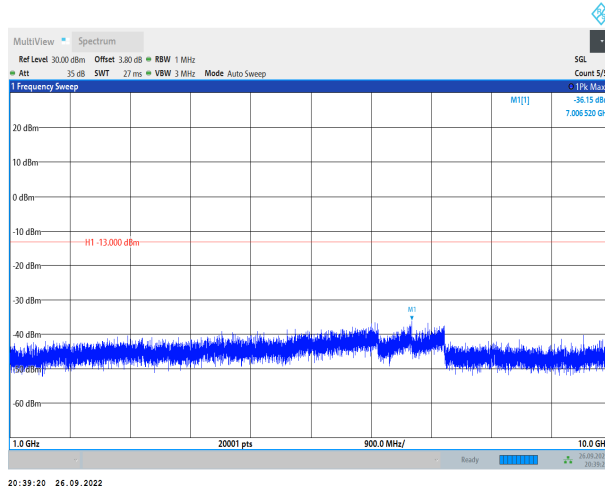
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5-5-10MHz-10MHz-QPSK-QPSK-20450-20549-1RB#0-0RB#0-30~1000MHz



5-5-10MHz-10MHz-QPSK-QPSK-20450-20549-1RB#0-0RB#0-1000~10000MHz

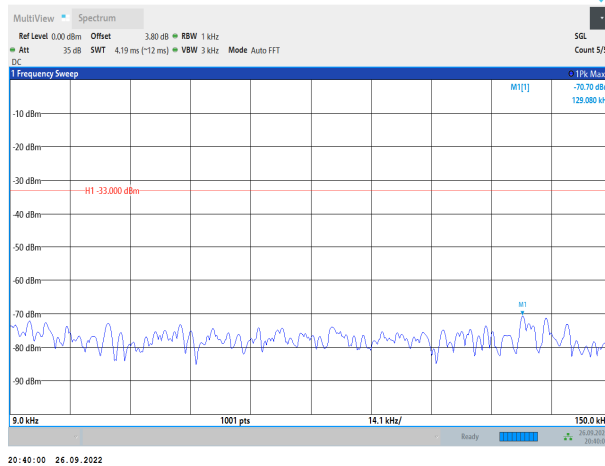


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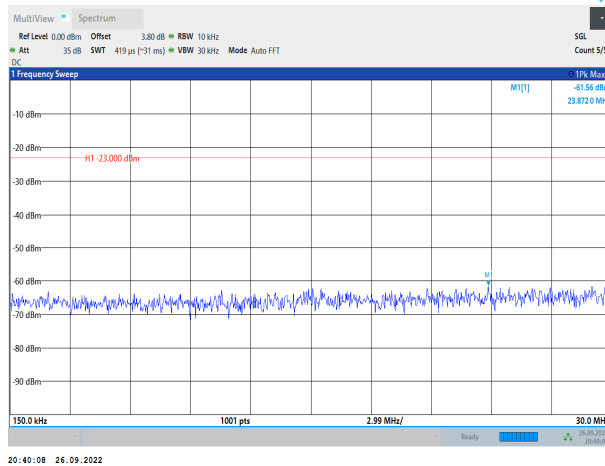
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5-5-10MHz-10MHz-QPSK-QPSK-20476-20575-1RB#0-0RB#0-0.009~0.15MHz



5-5-10MHz-10MHz-QPSK-QPSK-20476-20575-1RB#0-0RB#0-0.15~30MHz

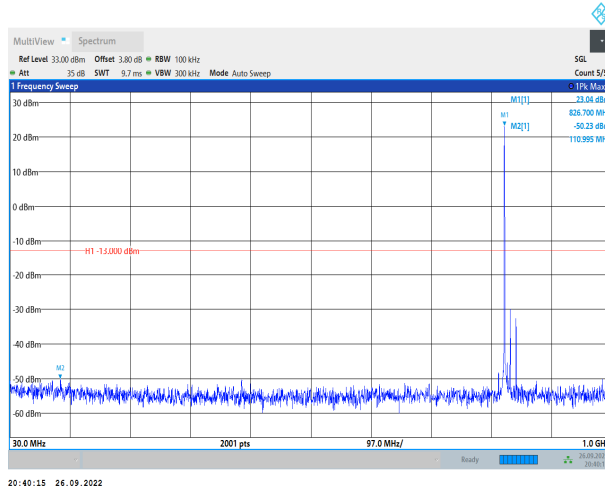


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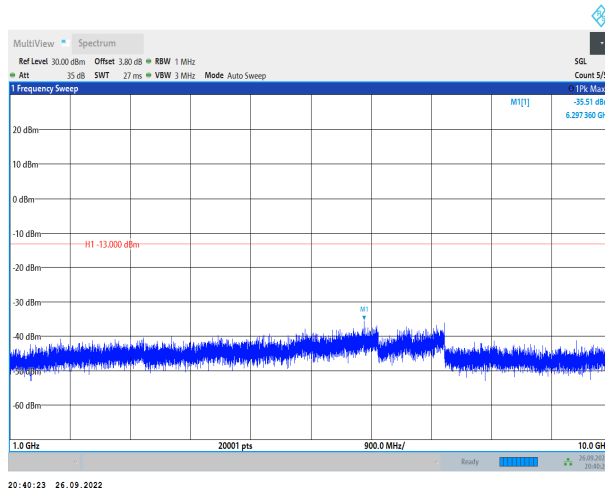
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5-5-10MHz-10MHz-QPSK-QPSK-20476-20575-1RB#0-0RB#0-30~1000MHz



5-5-10MHz-10MHz-QPSK-QPSK-20476-20575-1RB#0-0RB#0-1000~10000MHz

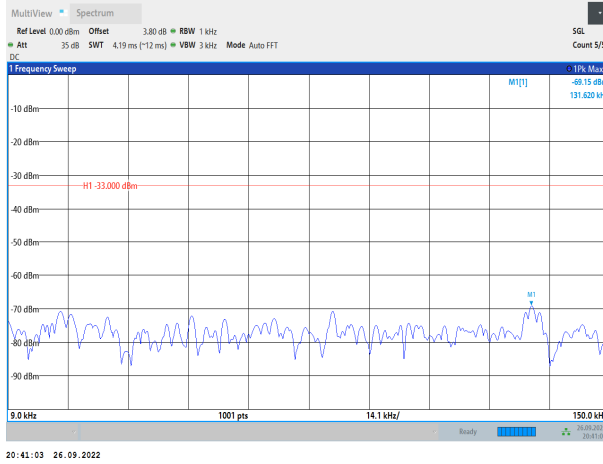


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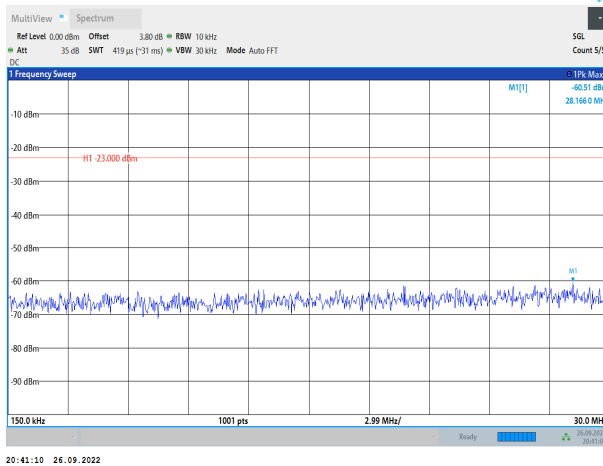
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5-5-10MHz-10MHz-QPSK-QPSK-20501-20600-1RB#0-0RB#0-0.009~0.15MHz



5-5-10MHz-10MHz-QPSK-QPSK-20501-20600-1RB#0-0RB#0-0.15~30MHz

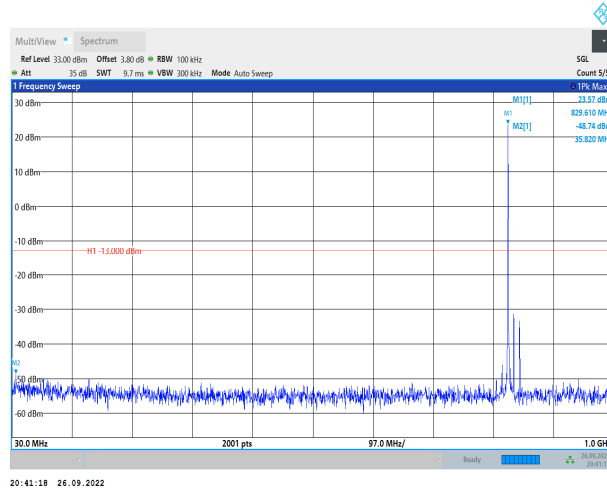


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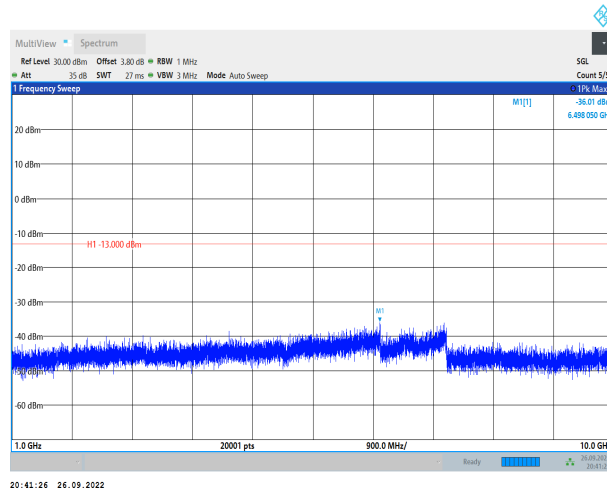
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5-5-10MHz-10MHz-QPSK-QPSK-20501-20600-1RB#0-0RB#0-30~1000MHz



5-5-10MHz-10MHz-QPSK-QPSK-20501-20600-1RB#0-0RB#0-1000~10000MHz



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## Field Strength of Spurious Radiation

Test Band = UL CA Band 5\_ 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	1649.1429	62.96	-48.22	25.37	-55.15	-13.00	42.15	122	268	Horizontal
2	2473.7700	59.62	-47.32	27.69	-55.27	-13.00	42.27	156	230	Horizontal
3	3298.3600	48.90	-46.68	29.56	-63.48	-13.00	50.48	193	94	Horizontal
4	4122.9500	48.45	-45.91	30.99	-61.74	-13.00	48.74	214	360	Horizontal
5	4947.5400	48.27	-45.69	32.73	-59.95	-13.00	46.95	226	202	Horizontal
6	5772.1000	47.83	-44.64	33.65	-58.42	-13.00	45.42	251	346	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	1649.1429	58.35	-48.22	25.37	-59.76	-13.00	46.76	145	13	Vertical
2	2473.7700	49.53	-47.32	27.69	-65.36	-13.00	52.36	214	1	Vertical
3	3298.3600	48.88	-46.68	29.56	-63.50	-13.00	50.50	253	356	Vertical
4	4122.9500	47.64	-45.91	30.99	-62.55	-13.00	49.55	226	226	Vertical
5	4947.5400	48.71	-45.69	32.73	-59.51	-13.00	46.51	174	50	Vertical
6	5772.1000	47.16	-44.64	33.65	-59.09	-13.00	46.09	124	77	Vertical



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**Test Band = UL CA Band 5\_ TM1**

**Test Channel = Middle**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1654.2857	66.28	-48.21	25.37	-51.82	-13.00	38.82	215	202	Horizontal
2	2481.5700	59.86	-47.30	27.71	-54.99	-13.00	41.99	163	215	Horizontal
3	3308.7600	49.20	-46.67	29.54	-63.18	-13.00	50.18	178	283	Horizontal
4	4135.9500	48.32	-45.92	31.00	-61.86	-13.00	48.86	221	269	Horizontal
5	4963.1400	47.95	-45.73	32.78	-60.26	-13.00	47.26	146	94	Horizontal
6	5790.3300	47.69	-44.65	33.72	-58.51	-13.00	45.51	165	354	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	1654.2857	60.65	-48.21	25.37	-57.45	-13.00	44.45	126	66	Vertical
2	2481.5700	50.86	-47.30	27.71	-63.99	-13.00	50.99	176	25	Vertical
3	3308.7600	49.67	-46.67	29.54	-62.71	-13.00	49.71	135	0	Vertical
4	4135.9500	48.79	-45.92	31.00	-61.39	-13.00	48.39	261	1	Vertical
5	4963.1400	48.66	-45.73	32.78	-59.55	-13.00	46.55	221	52	Vertical
6	5790.3300	47.14	-44.65	33.72	-59.06	-13.00	46.06	214	3	Vertical



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Test Band = UL CA Band 5\_ 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	1749.3800	51.03	-48.06	25.41	-66.88	-13.00	53.88	167	175	Horizontal
2	2624.0700	49.81	-46.96	28.15	-64.26	-13.00	51.26	216	148	Horizontal
3	3498.7600	50.33	-46.54	29.52	-61.95	-13.00	48.95	223	4	Horizontal
4	4373.4500	47.69	-45.86	31.46	-61.97	-13.00	48.97	251	108	Horizontal
5	5248.1400	46.77	-45.14	32.94	-60.68	-13.00	47.68	172	282	Horizontal
6	6122.8300	45.73	-44.74	34.17	-60.09	-13.00	47.09	154	347	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	1749.3800	50.69	-48.06	25.41	-67.22	-13.00	54.22	163	333	Vertical
2	2624.0700	49.52	-46.96	28.15	-64.55	-13.00	51.55	214	306	Vertical
3	3498.7600	50.22	-46.54	29.52	-62.06	-13.00	49.06	256	346	Vertical
4	4373.4500	47.70	-45.86	31.46	-61.96	-13.00	48.96	271	6	Vertical
5	5248.1400	46.44	-45.14	32.94	-61.01	-13.00	48.01	223	6	Vertical
6	6122.8300	45.53	-44.74	34.17	-60.29	-13.00	47.29	198	0	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

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	VH	NT	13.00	0.015633	±2.5	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	VL	NT	9.60	0.011544	±2.5	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	VN	NT	12.50	0.015031	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	NV	50	12.50	0.015031	±2.5	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	NV	40	15.80	0.019000	±2.5	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	NV	30	18.10	0.021765	±2.5	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	NV	20	14.20	0.017076	±2.5	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	NV	10	9.80	0.011785	±2.5	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	NV	0	15.10	0.018158	±2.5	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	NV	-10	13.10	0.015753	±2.5	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	NV	-20	14.50	0.017436	±2.5	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	NV	-30	12.30	0.014791	±2.5	PASS

---End of Attachment---



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