

# Appendix B.15

## LTE CA\_7C



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### Effective (Isotropic) Radiated Power Output Data

#### Test Result

Ant31

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
7-7	10MHz-20MHz	QPSK-QPSK	20805-20949	1RB#0-0RB#0	23.13	23.39	33.00	PASS
7-7	10MHz-20MHz	QPSK-QPSK	20805-20949	50RB#0-100RB#0	22.12	22.38	33.00	PASS
7-7	10MHz-20MHz	QPSK-QPSK	21006-21150	1RB#0-0RB#0	23.42	23.68	33.00	PASS
7-7	10MHz-20MHz	QPSK-QPSK	21006-21150	50RB#0-100RB#0	22.38	22.64	33.00	PASS
7-7	10MHz-20MHz	QPSK-QPSK	21206-21350	1RB#0-0RB#0	23.45	23.71	33.00	PASS
7-7	10MHz-20MHz	QPSK-QPSK	21206-21350	50RB#0-100RB#0	22.5	22.76	33.00	PASS
7-7	10MHz-20MHz	16QAM-16QAM	20805-20949	1RB#0-0RB#0	22.45	22.71	33.00	PASS
7-7	10MHz-20MHz	16QAM-16QAM	20805-20949	50RB#0-100RB#0	21.21	21.47	33.00	PASS
7-7	10MHz-20MHz	16QAM-16QAM	21006-21150	1RB#0-0RB#0	22.76	23.02	33.00	PASS
7-7	10MHz-20MHz	16QAM-16QAM	21006-21150	50RB#0-100RB#0	21.4	21.66	33.00	PASS
7-7	10MHz-20MHz	16QAM-16QAM	21206-21350	1RB#0-0RB#0	22.75	23.01	33.00	PASS
7-7	10MHz-20MHz	16QAM-16QAM	21206-21350	50RB#0-100RB#0	21.46	21.72	33.00	PASS
7-7	10MHz-20MHz	64QAM-64QAM	20805-20949	1RB#0-0RB#0	21.62	21.88	33.00	PASS
7-7	10MHz-20MHz	64QAM-64QAM	20805-20949	50RB#0-100RB#0	21.15	21.41	33.00	PASS
7-7	10MHz-20MHz	64QAM-64QAM	21006-21150	1RB#0-0RB#0	21.67	21.93	33.00	PASS
7-7	10MHz-20MHz	64QAM-64QAM	21006-21150	50RB#0-100RB#0	21.44	21.7	33.00	PASS
7-7	10MHz-20MHz	64QAM-64QAM	21206-21350	1RB#0-0RB#0	21.87	22.13	33.00	PASS
7-7	10MHz-20MHz	64QAM-64QAM	21206-21350	50RB#0-100RB#0	21.51	21.77	33.00	PASS
7-7	10MHz-20MHz	256QAM-256QAM	20805-20949	1RB#0-0RB#0	18.48	18.74	33.00	PASS
7-7	10MHz-20MHz	256QAM-256QAM	20805-20949	50RB#0-100RB#0	19.23	19.49	33.00	PASS
7-7	10MHz-20MHz	256QAM-256QAM	21006-21150	1RB#0-0RB#0	18.93	19.19	33.00	PASS
7-7	10MHz-20MHz	256QAM-256QAM	21006-21150	50RB#0-100RB#0	19.39	19.65	33.00	PASS
7-7	10MHz-20MHz	256QAM-256QAM	21206-21350	1RB#0-0RB#0	18.86	19.12	33.00	PASS
7-7	10MHz-20MHz	256QAM-256QAM	21206-21350	50RB#0-100RB#0	19.47	19.73	33.00	PASS
7-7	15MHz-10MHz	QPSK-QPSK	20825-20945	1RB#0-0RB#0	23.13	23.39	33.00	PASS
7-7	15MHz-10MHz	QPSK-QPSK	20825-20945	75RB#0-50RB#0	22.16	22.42	33.00	PASS



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7-7	15MHz-10MHz	QPSK-QPSK	21051-21171	1RB#0-0RB#0	23.52	23.78	33.00	PASS
7-7	15MHz-10MHz	QPSK-QPSK	21051-21171	75RB#0-50RB#0	22.38	22.64	33.00	PASS
7-7	15MHz-10MHz	QPSK-QPSK	21277-21397	1RB#0-0RB#0	23.38	23.64	33.00	PASS
7-7	15MHz-10MHz	QPSK-QPSK	21277-21397	75RB#0-50RB#0	22.44	22.7	33.00	PASS
7-7	15MHz-10MHz	16QAM-16QAM	20825-20945	1RB#0-0RB#0	22.42	22.68	33.00	PASS
7-7	15MHz-10MHz	16QAM-16QAM	20825-20945	75RB#0-50RB#0	21.19	21.45	33.00	PASS
7-7	15MHz-10MHz	16QAM-16QAM	21051-21171	1RB#0-0RB#0	22.69	22.95	33.00	PASS
7-7	15MHz-10MHz	16QAM-16QAM	21051-21171	75RB#0-50RB#0	21.39	21.65	33.00	PASS
7-7	15MHz-10MHz	16QAM-16QAM	21277-21397	1RB#0-0RB#0	22.79	23.05	33.00	PASS
7-7	15MHz-10MHz	16QAM-16QAM	21277-21397	75RB#0-50RB#0	21.48	21.74	33.00	PASS
7-7	15MHz-10MHz	64QAM-64QAM	20825-20945	1RB#0-0RB#0	21.48	21.74	33.00	PASS
7-7	15MHz-10MHz	64QAM-64QAM	20825-20945	75RB#0-50RB#0	21.22	21.48	33.00	PASS
7-7	15MHz-10MHz	64QAM-64QAM	21051-21171	1RB#0-0RB#0	21.83	22.09	33.00	PASS
7-7	15MHz-10MHz	64QAM-64QAM	21051-21171	75RB#0-50RB#0	21.49	21.75	33.00	PASS
7-7	15MHz-10MHz	64QAM-64QAM	21277-21397	1RB#0-0RB#0	21.84	22.1	33.00	PASS
7-7	15MHz-10MHz	64QAM-64QAM	21277-21397	75RB#0-50RB#0	21.47	21.73	33.00	PASS
7-7	15MHz-10MHz	256QAM-256QAM	20825-20945	1RB#0-0RB#0	18.56	18.82	33.00	PASS
7-7	15MHz-10MHz	256QAM-256QAM	20825-20945	75RB#0-50RB#0	19.13	19.39	33.00	PASS
7-7	15MHz-10MHz	256QAM-256QAM	21051-21171	1RB#0-0RB#0	18.66	18.92	33.00	PASS
7-7	15MHz-10MHz	256QAM-256QAM	21051-21171	75RB#0-50RB#0	19.42	19.68	33.00	PASS
7-7	15MHz-10MHz	256QAM-256QAM	21277-21397	1RB#0-0RB#0	18.75	19.01	33.00	PASS
7-7	15MHz-10MHz	256QAM-256QAM	21277-21397	75RB#0-50RB#0	19.4	19.66	33.00	PASS
7-7	15MHz-15MHz	QPSK-QPSK	20825-20975	1RB#0-0RB#0	23.07	23.33	33.00	PASS
7-7	15MHz-15MHz	QPSK-QPSK	20825-20975	75RB#0-75RB#0	22.19	22.45	33.00	PASS
7-7	15MHz-15MHz	QPSK-QPSK	21025-21175	1RB#0-0RB#0	23.27	23.53	33.00	PASS
7-7	15MHz-15MHz	QPSK-QPSK	21025-21175	75RB#0-75RB#0	22.37	22.63	33.00	PASS
7-7	15MHz-15MHz	QPSK-QPSK	21225-21375	1RB#0-0RB#0	23.35	23.61	33.00	PASS
7-7	15MHz-15MHz	QPSK-QPSK	21225-21375	75RB#0-75RB#0	22.35	22.61	33.00	PASS
7-7	15MHz-15MHz	16QAM-16QAM	20825-20975	1RB#0-0RB#0	22.41	22.67	33.00	PASS
7-7	15MHz-15MHz	16QAM-16QAM	20825-20975	75RB#0-75RB#0	21.18	21.44	33.00	PASS
7-7	15MHz-15MHz	16QAM-16QAM	21025-21175	1RB#0-0RB#0	22.56	22.82	33.00	PASS
7-7	15MHz-15MHz	16QAM-16QAM	21025-21175	75RB#0-75RB#0	21.32	21.58	33.00	PASS



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Table with 9 columns: Frequency, Modulation, Bandwidth, Channel Spacing, Power Spectral Density, Interference, Adjacent Channel Power, and Pass/Fail status. Contains 30 rows of test data.



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Table with 9 columns: Frequency, Modulation, Standard, ID, RB#0, RB#1, RB#2, RB#3, Result. Contains 35 rows of test data.



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7-7	20MHz-15MHz	QPSK-QPSK	21026-21197	100RB#0-75RB#0	22.3	22.56	33.00	PASS
7-7	20MHz-15MHz	QPSK-QPSK	21026-21197	1RB#0-0RB#0	23.32	23.58	33.00	PASS
7-7	20MHz-15MHz	QPSK-QPSK	21201-21372	100RB#0-75RB#0	22.41	22.67	33.00	PASS
7-7	20MHz-15MHz	QPSK-QPSK	21201-21372	1RB#0-0RB#0	23.35	23.61	33.00	PASS
7-7	20MHz-15MHz	16QAM-16QAM	20850-21021	100RB#0-75RB#0	21.26	21.52	33.00	PASS
7-7	20MHz-15MHz	16QAM-16QAM	20850-21021	1RB#0-0RB#0	22.62	22.88	33.00	PASS
7-7	20MHz-15MHz	16QAM-16QAM	21026-21197	100RB#0-75RB#0	21.38	21.64	33.00	PASS
7-7	20MHz-15MHz	16QAM-16QAM	21026-21197	1RB#0-0RB#0	22.5	22.76	33.00	PASS
7-7	20MHz-15MHz	16QAM-16QAM	21201-21372	100RB#0-75RB#0	21.43	21.69	33.00	PASS
7-7	20MHz-15MHz	16QAM-16QAM	21201-21372	1RB#0-0RB#0	22.68	22.94	33.00	PASS
7-7	20MHz-15MHz	64QAM-64QAM	20850-21021	100RB#0-75RB#0	21.22	21.48	33.00	PASS
7-7	20MHz-15MHz	64QAM-64QAM	20850-21021	1RB#0-0RB#0	21.62	21.88	33.00	PASS
7-7	20MHz-15MHz	64QAM-64QAM	21026-21197	100RB#0-75RB#0	21.43	21.69	33.00	PASS
7-7	20MHz-15MHz	64QAM-64QAM	21026-21197	1RB#0-0RB#0	21.79	22.05	33.00	PASS
7-7	20MHz-15MHz	64QAM-64QAM	21201-21372	100RB#0-75RB#0	21.47	21.73	33.00	PASS
7-7	20MHz-15MHz	64QAM-64QAM	21201-21372	1RB#0-0RB#0	21.72	21.98	33.00	PASS
7-7	20MHz-15MHz	256QAM-256QAM	20850-21021	100RB#0-75RB#0	19.24	19.5	33.00	PASS
7-7	20MHz-15MHz	256QAM-256QAM	20850-21021	1RB#0-0RB#0	18.54	18.8	33.00	PASS
7-7	20MHz-15MHz	256QAM-256QAM	21026-21197	100RB#0-75RB#0	19.36	19.62	33.00	PASS
7-7	20MHz-15MHz	256QAM-256QAM	21026-21197	1RB#0-0RB#0	18.62	18.88	33.00	PASS
7-7	20MHz-15MHz	256QAM-256QAM	21201-21372	100RB#0-75RB#0	19.42	19.68	33.00	PASS
7-7	20MHz-15MHz	256QAM-256QAM	21201-21372	1RB#0-0RB#0	18.7	18.96	33.00	PASS
7-7	20MHz-20MHz	QPSK-QPSK	20850-21048	100RB#0-100RB#0	22.25	22.51	33.00	PASS
7-7	20MHz-20MHz	QPSK-QPSK	20850-21048	1RB#0-0RB#0	23.06	23.32	33.00	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	22.38	22.64	33.00	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	1RB#0-0RB#0	23.2	23.46	33.00	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21152-21350	100RB#0-100RB#0	22.38	22.64	33.00	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21152-21350	1RB#0-0RB#0	23.36	23.62	33.00	PASS
7-7	20MHz-20MHz	16QAM-16QAM	20850-21048	100RB#0-100RB#0	21.28	21.54	33.00	PASS
7-7	20MHz-20MHz	16QAM-16QAM	20850-21048	1RB#0-0RB#0	22.45	22.71	33.00	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21001-21199	100RB#0-100RB#0	21.35	21.61	33.00	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21001-21199	1RB#0-0RB#0	22.51	22.77	33.00	PASS



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7-7	20MHz-20MHz	16QAM-16QAM	21152-21350	100RB#0-100RB#0	21.4	21.66	33.00	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21152-21350	1RB#0-0RB#0	22.62	22.88	33.00	PASS
7-7	20MHz-20MHz	64QAM-64QAM	20850-21048	100RB#0-100RB#0	21.25	21.51	33.00	PASS
7-7	20MHz-20MHz	64QAM-64QAM	20850-21048	1RB#0-0RB#0	21.68	21.94	33.00	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21001-21199	100RB#0-100RB#0	21.42	21.68	33.00	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21001-21199	1RB#0-0RB#0	21.67	21.93	33.00	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21152-21350	100RB#0-100RB#0	21.47	21.73	33.00	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21152-21350	1RB#0-0RB#0	21.71	21.97	33.00	PASS
7-7	20MHz-20MHz	256QAM-256QAM	20850-21048	100RB#0-100RB#0	19.25	19.51	33.00	PASS
7-7	20MHz-20MHz	256QAM-256QAM	20850-21048	1RB#0-0RB#0	18.57	18.83	33.00	PASS
7-7	20MHz-20MHz	256QAM-256QAM	21001-21199	100RB#0-100RB#0	19.36	19.62	33.00	PASS
7-7	20MHz-20MHz	256QAM-256QAM	21001-21199	1RB#0-0RB#0	18.72	18.98	33.00	PASS
7-7	20MHz-20MHz	256QAM-256QAM	21152-21350	100RB#0-100RB#0	19.48	19.74	33.00	PASS
7-7	20MHz-20MHz	256QAM-256QAM	21152-21350	1RB#0-0RB#0	18.7	18.96	33.00	PASS



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## Peak-to-Average Ratio(CCDF)

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
7-7	20MHz-20MHz	QPSK-QPSK	20850-21048	100RB#0-100RB#0	6.06	13	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	5.90	13	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21152-21350	100RB#0-100RB#0	5.90	13	PASS
7-7	20MHz-20MHz	16QAM-16QAM	20850-21048	100RB#0-100RB#0	6.74	13	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21001-21199	100RB#0-100RB#0	6.54	13	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21152-21350	100RB#0-100RB#0	6.58	13	PASS
7-7	20MHz-20MHz	64QAM-64QAM	20850-21048	100RB#0-100RB#0	6.86	13	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21001-21199	100RB#0-100RB#0	6.82	13	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21152-21350	100RB#0-100RB#0	6.82	13	PASS
7-7	20MHz-20MHz	256QAM-256QAM	20850-21048	100RB#0-100RB#0	7.04	13	PASS
7-7	20MHz-20MHz	256QAM-256QAM	21001-21199	100RB#0-100RB#0	6.98	13	PASS
7-7	20MHz-20MHz	256QAM-256QAM	21152-21350	100RB#0-100RB#0	6.90	13	PASS



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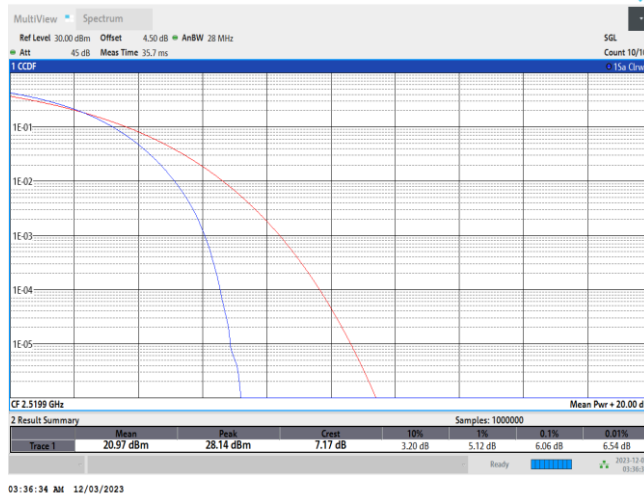
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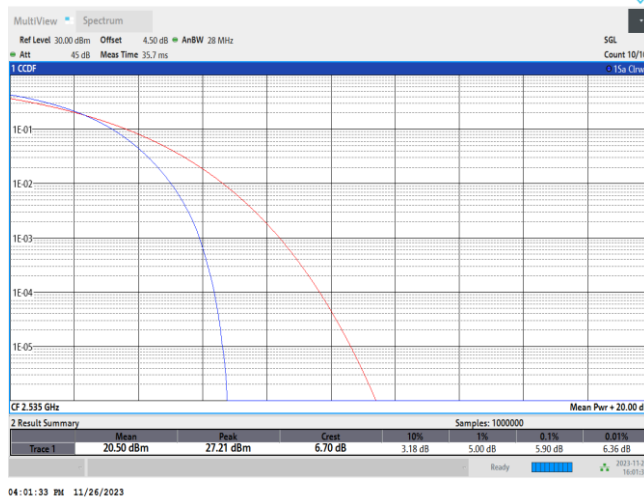


Test Graphs

7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-100RB#0-100RB#0



7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-100RB#0-100RB#0

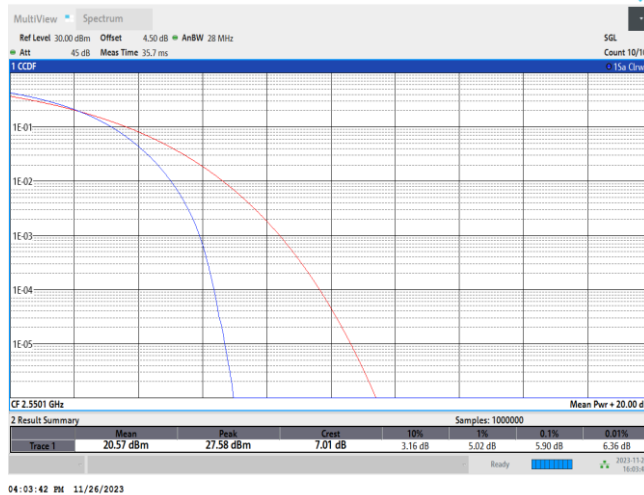


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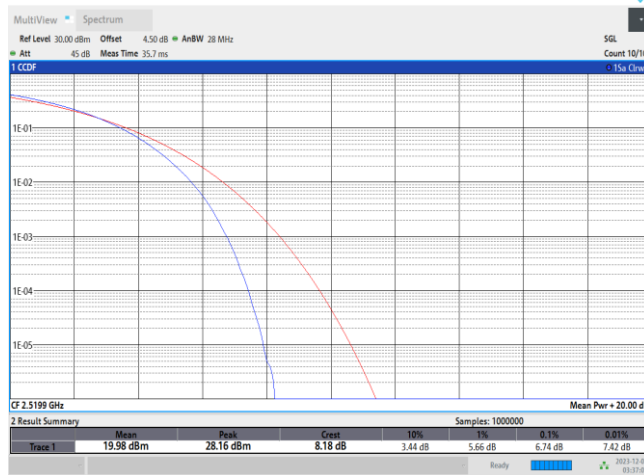
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7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-100RB#0-100RB#0



04:03:42 PM 11/26/2023

7-7-20MHz-20MHz-16QAM-16QAM-20850-21048-100RB#0-100RB#0



03:37:05 AM 12/03/2023

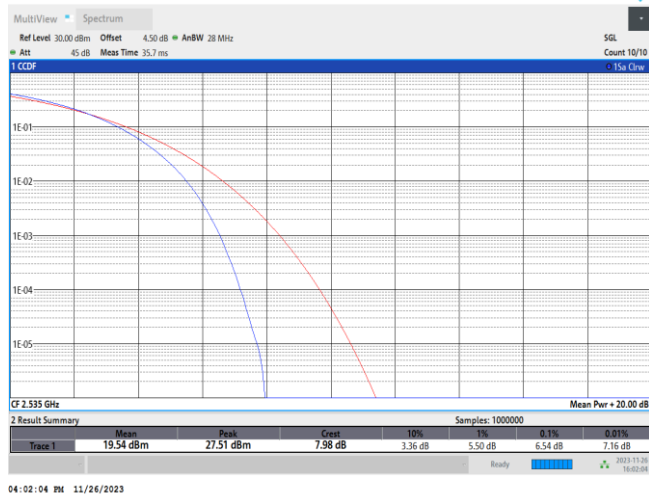


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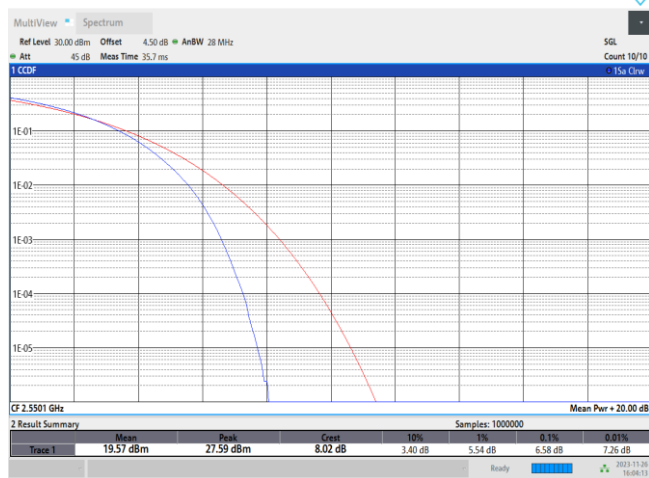
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7-7-20MHz-20MHz-16QAM-16QAM-21001-21199-100RB#0-100RB#0



04:02:04 PM 11/26/2023

7-7-20MHz-20MHz-16QAM-16QAM-21152-21350-100RB#0-100RB#0



04:04:13 PM 11/26/2023

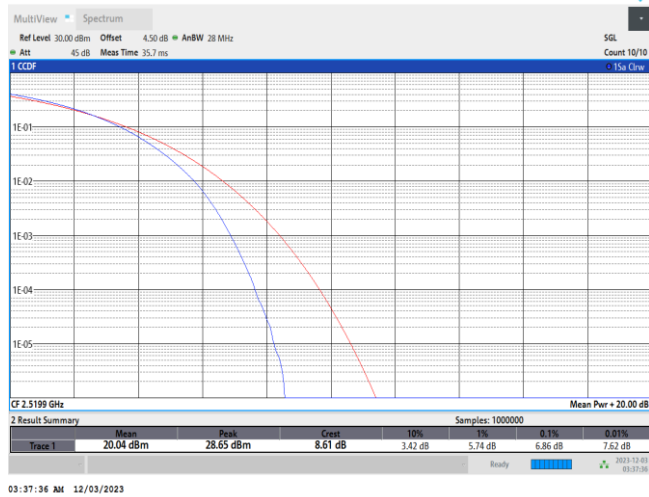


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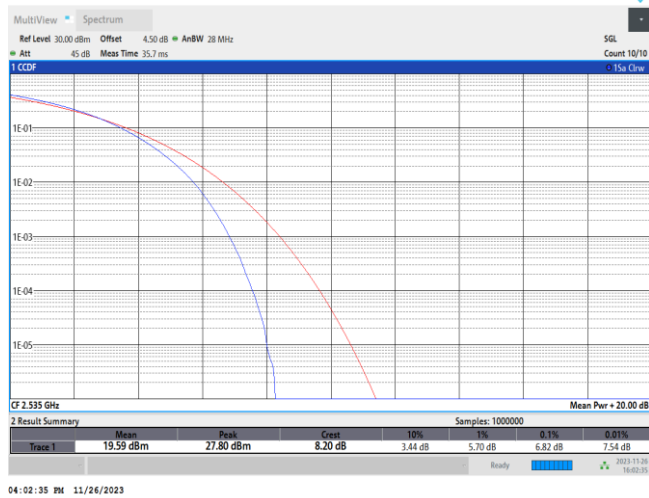
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7-7-20MHz-20MHz-64QAM-64QAM-20850-21048-100RB#0-100RB#0



7-7-20MHz-20MHz-64QAM-64QAM-21001-21199-100RB#0-100RB#0

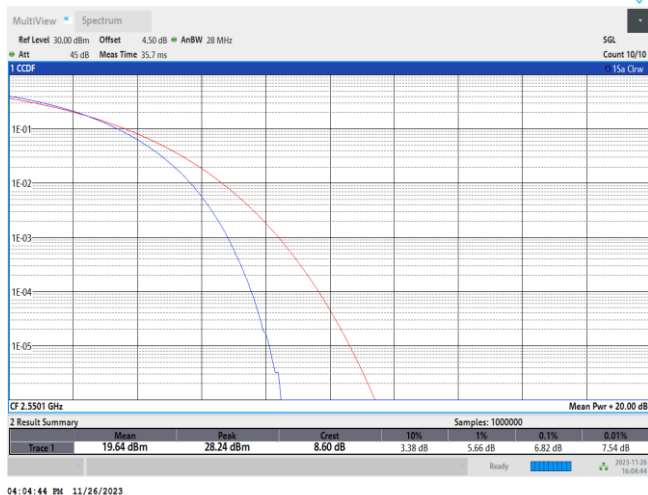


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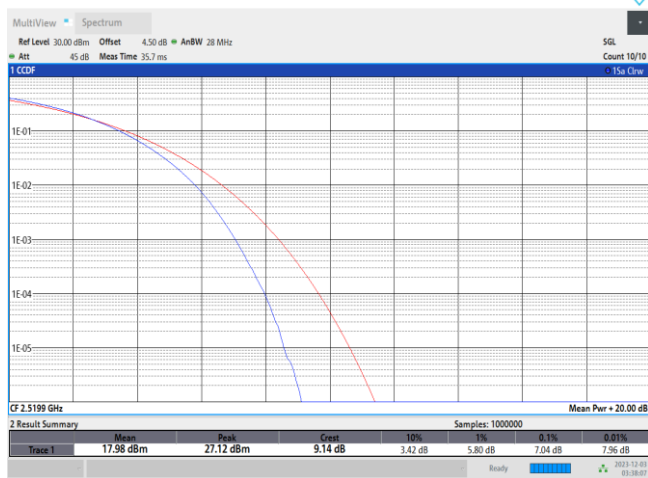
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7-7-20MHz-20MHz-64QAM-64QAM-21152-21350-100RB#0-100RB#0



04:04:44 PM 11/26/2023

7-7-20MHz-20MHz-256QAM-256QAM-20850-21048-100RB#0-100RB#0



03:38:07 AM 12/03/2023

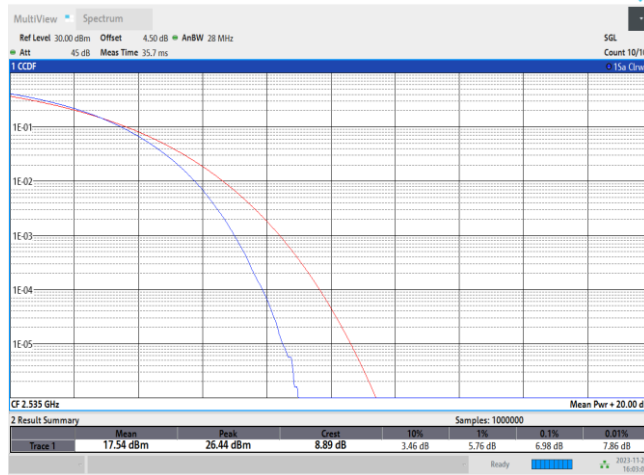


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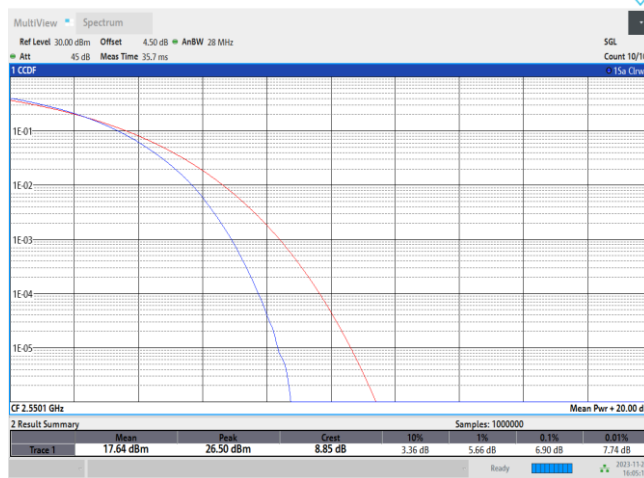
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04:03:06 PM 11/26/2023

7-7-20MHz-20MHz-256QAM-256QAM-21152-21350-100RB#0-100RB#0



04:05:15 PM 11/26/2023



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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
7-7	10MHz-20MHz	QPSK-QPSK	21006-21150	50RB#0-100RB#0	27.856	29.16	PASS
7-7	10MHz-20MHz	16QAM-16QAM	21006-21150	50RB#0-100RB#0	27.784	29.58	PASS
7-7	10MHz-20MHz	64QAM-64QAM	21006-21150	50RB#0-100RB#0	27.74	29.52	PASS
7-7	10MHz-20MHz	256QAM-256QAM	21006-21150	50RB#0-100RB#0	27.748	29.52	PASS
7-7	15MHz-10MHz	QPSK-QPSK	21051-21171	75RB#0-50RB#0	23.084	24.75	PASS
7-7	15MHz-10MHz	16QAM-16QAM	21051-21171	75RB#0-50RB#0	23.189	24.95	PASS
7-7	15MHz-10MHz	64QAM-64QAM	21051-21171	75RB#0-50RB#0	23.166	25.10	PASS
7-7	15MHz-10MHz	256QAM-256QAM	21051-21171	75RB#0-50RB#0	23.165	25.20	PASS
7-7	15MHz-15MHz	QPSK-QPSK	21025-21175	75RB#0-75RB#0	28.3	30.06	PASS
7-7	15MHz-15MHz	16QAM-16QAM	21025-21175	75RB#0-75RB#0	28.325	30.18	PASS
7-7	15MHz-15MHz	64QAM-64QAM	21025-21175	75RB#0-75RB#0	28.342	30.24	PASS
7-7	15MHz-15MHz	256QAM-256QAM	21025-21175	75RB#0-75RB#0	28.354	30.30	PASS
7-7	15MHz-20MHz	QPSK-QPSK	21003-21174	75RB#0-100RB#0	32.509	34.09	PASS
7-7	15MHz-20MHz	16QAM-16QAM	21003-21174	75RB#0-100RB#0	32.577	34.65	PASS
7-7	15MHz-20MHz	64QAM-64QAM	21003-21174	75RB#0-100RB#0	32.618	34.65	PASS
7-7	15MHz-20MHz	256QAM-256QAM	21003-21174	75RB#0-100RB#0	32.611	34.86	PASS
7-7	20MHz-10MHz	QPSK-QPSK	21051-21195	100RB#0-50RB#0	27.617	29.34	PASS
7-7	20MHz-10MHz	16QAM-16QAM	21051-21195	100RB#0-50RB#0	27.786	29.76	PASS
7-7	20MHz-10MHz	64QAM-64QAM	21051-21195	100RB#0-50RB#0	27.783	29.88	PASS
7-7	20MHz-10MHz	256QAM-256QAM	21051-21195	100RB#0-50RB#0	27.798	29.88	PASS
7-7	20MHz-15MHz	QPSK-QPSK	21026-21197	100RB#0-75RB#0	32.501	34.09	PASS
7-7	20MHz-15MHz	16QAM-16QAM	21026-21197	100RB#0-75RB#0	32.638	34.86	PASS
7-7	20MHz-15MHz	64QAM-64QAM	21026-21197	100RB#0-75RB#0	32.605	34.79	PASS
7-7	20MHz-15MHz	256QAM-256QAM	21026-21197	100RB#0-75RB#0	32.639	34.86	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	37.566	40.00	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21001-21199	100RB#0-100RB#0	37.74	40.64	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21001-21199	100RB#0-100RB#0	37.761	40.56	PASS
7-7	20MHz-20MHz	256QAM-256QAM	21001-21199	100RB#0-100RB#0	37.71	40.56	PASS



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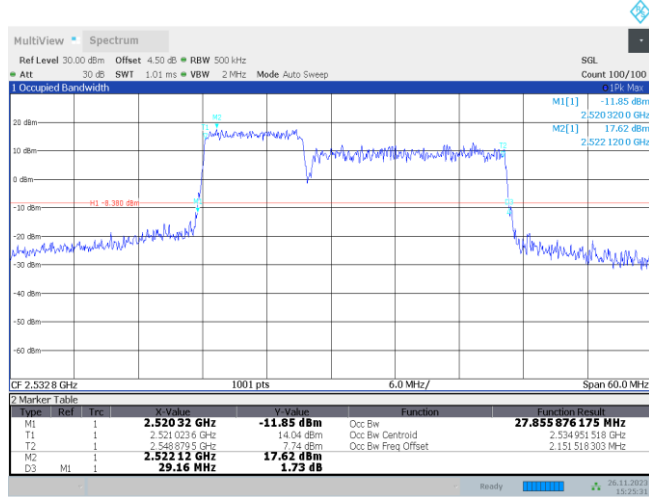
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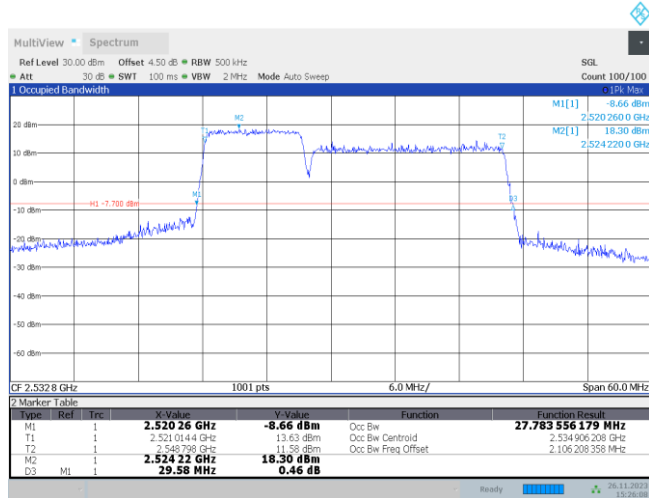
Test Graphs

7-7-10MHz-20MHz-QPSK-QPSK-21006-21150-50RB#0-100RB#0



15:25:31 26.11.2023

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15:26:09 26.11.2023

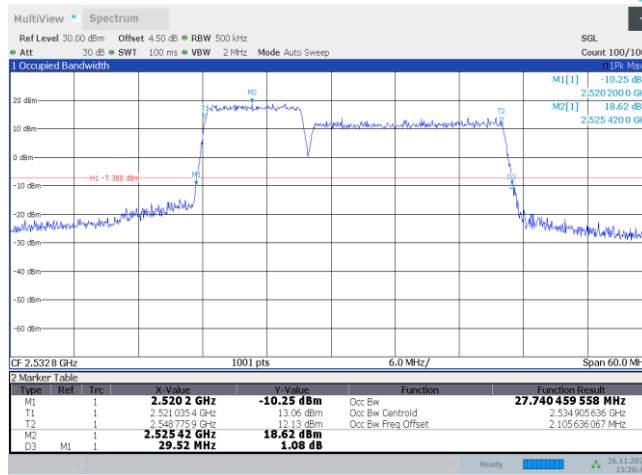


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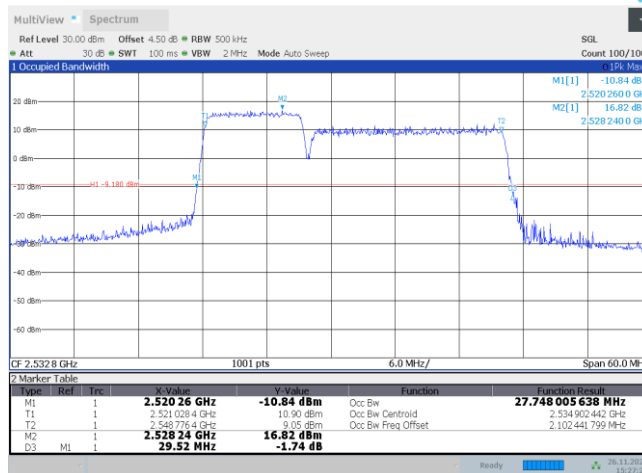
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7-7-10MHz-20MHz-64QAM-64QAM-21006-21150-50RB#0-100RB#0



15:26:47 26.11.2023

7-7-10MHz-20MHz-256QAM-256QAM-21006-21150-50RB#0-100RB#0



15:27:24 26.11.2023

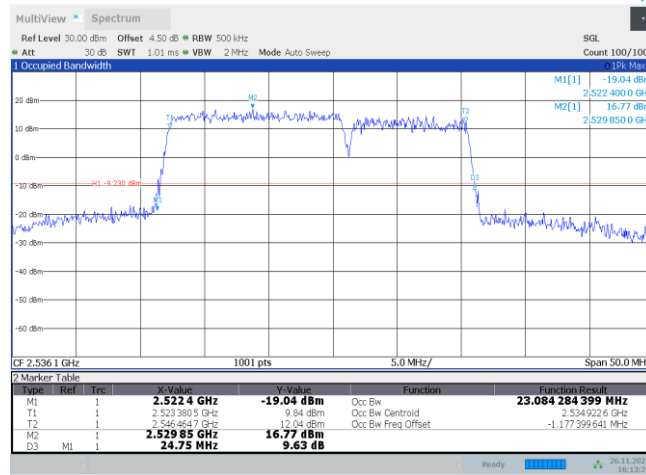


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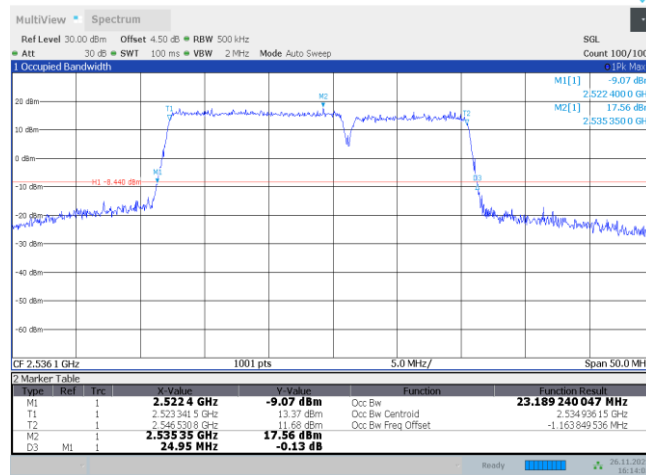
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7-7-15MHz-10MHz-QPSK-QPSK-21051-21171-75RB#0-50RB#0



16:13:28 26.11.2023

7-7-15MHz-10MHz-16QAM-16QAM-21051-21171-75RB#0-50RB#0



16:14:05 26.11.2023

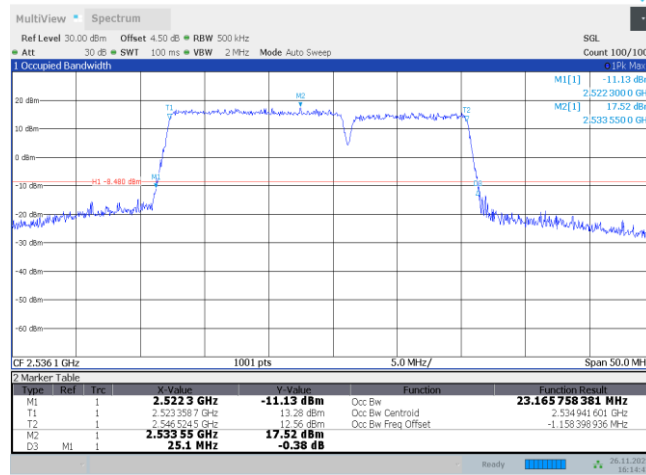


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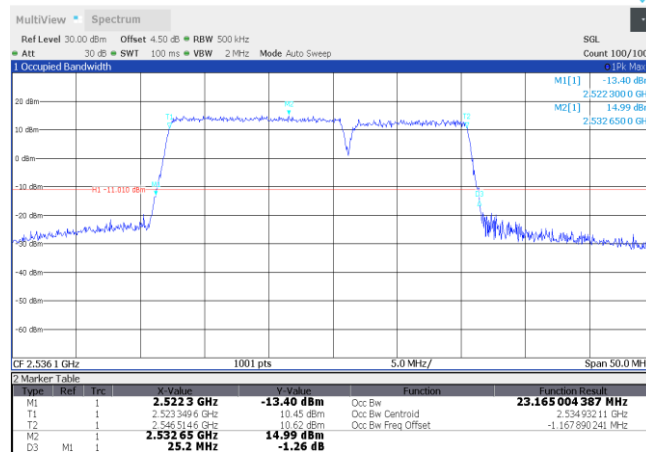
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7-7-15MHz-10MHz-64QAM-64QAM-21051-21171-75RB#0-50RB#0



16:14:43 26.11.2023

7-7-15MHz-10MHz-256QAM-256QAM-21051-21171-75RB#0-50RB#0



16:15:21 26.11.2023

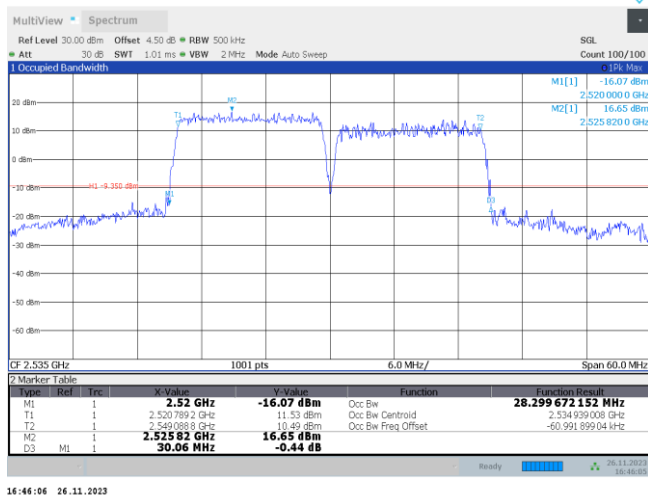


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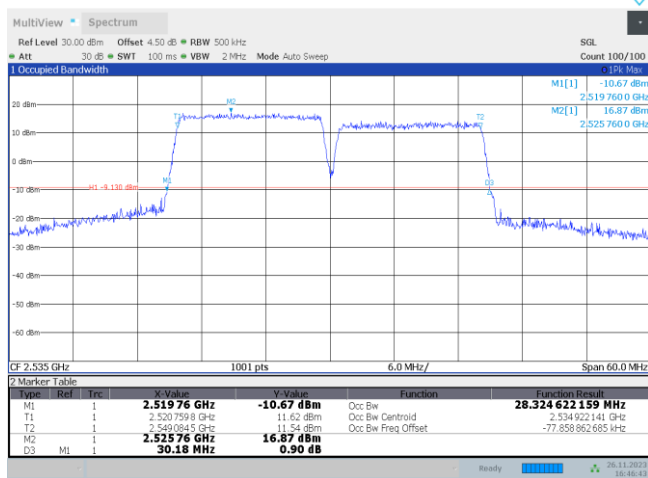
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7-7-15MHz-15MHz-QPSK-QPSK-21025-21175-75RB#0-75RB#0



16:44:06 26.11.2023

7-7-15MHz-15MHz-16QAM-16QAM-21025-21175-75RB#0-75RB#0



16:44:44 26.11.2023

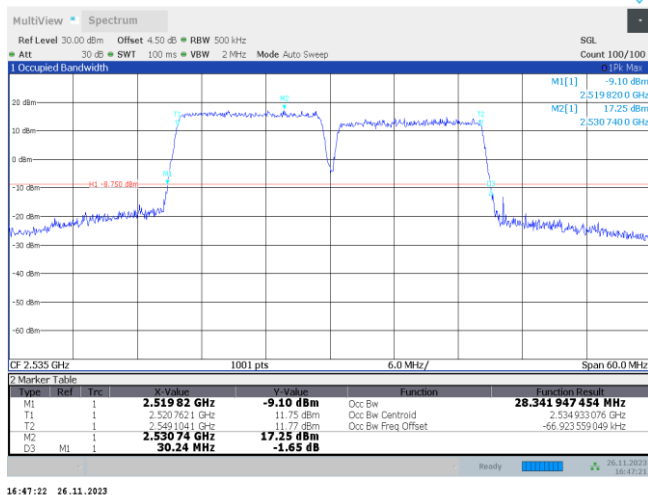


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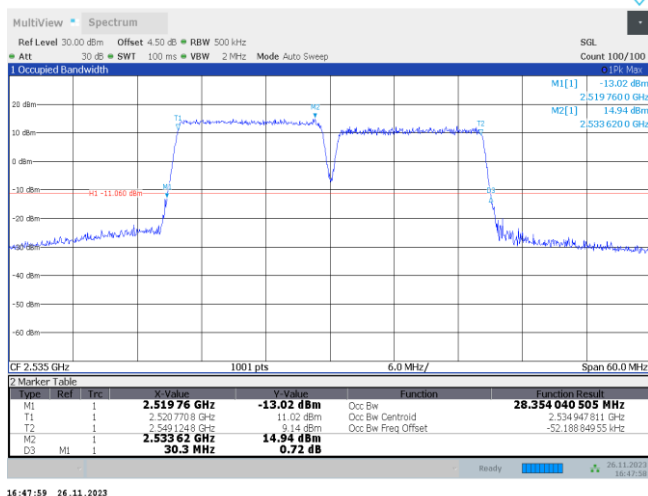
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7-7-15MHz-15MHz-64QAM-64QAM-21025-21175-75RB#0-75RB#0



16:47:22 26.11.2023

7-7-15MHz-15MHz-256QAM-256QAM-21025-21175-75RB#0-75RB#0



16:47:59 26.11.2023

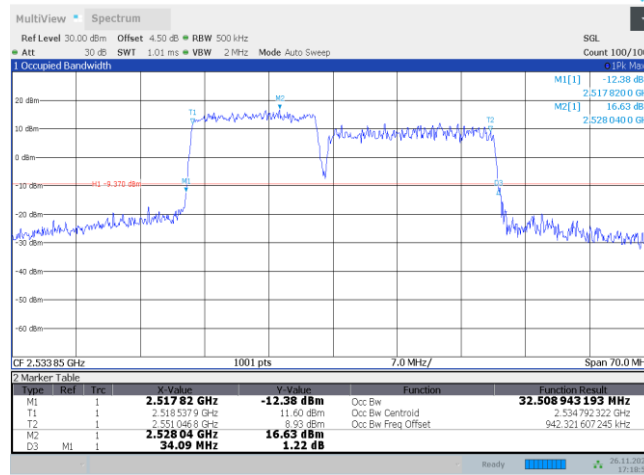


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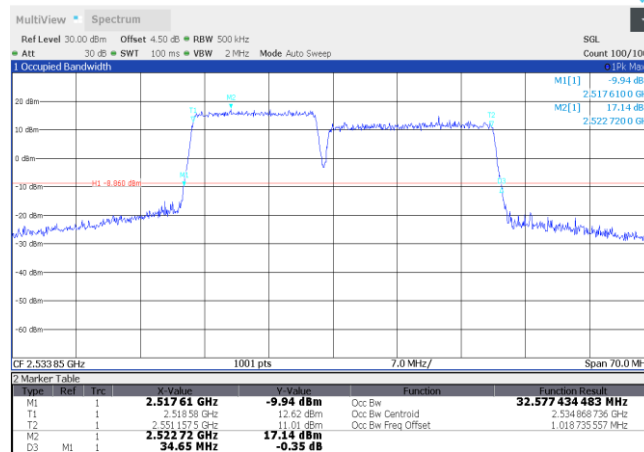
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7-7-15MHz-20MHz-QPSK-QPSK-21003-21174-75RB#0-100RB#0



17:18:56 26.11.2023

7-7-15MHz-20MHz-16QAM-16QAM-21003-21174-75RB#0-100RB#0



17:19:34 26.11.2023

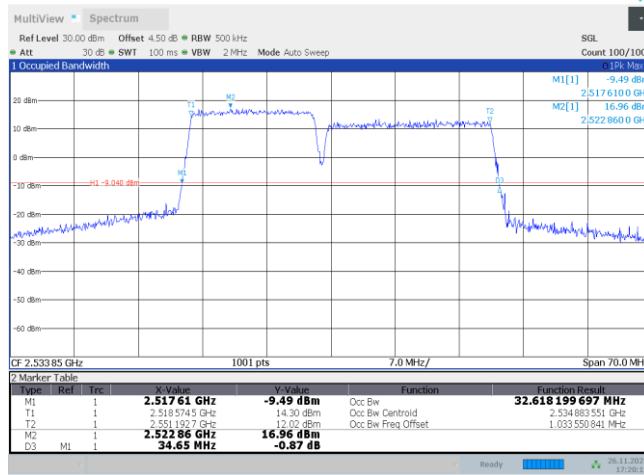


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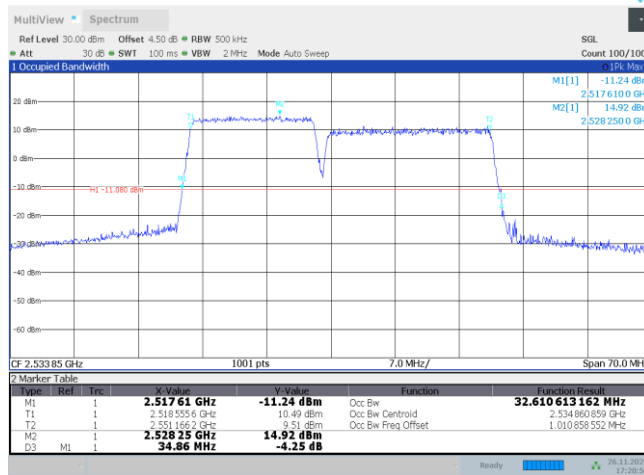
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7-7-15MHz-20MHz-64QAM-64QAM-21003-21174-75RB#0-100RB#0



17:20:12 26.11.2023

7-7-15MHz-20MHz-256QAM-256QAM-21003-21174-75RB#0-100RB#0



17:20:50 26.11.2023



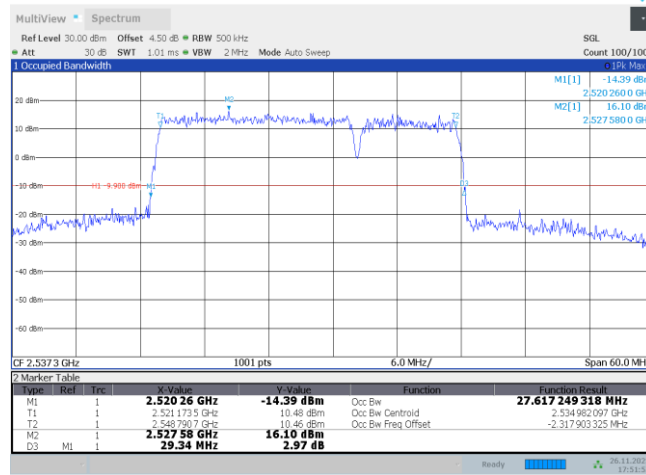
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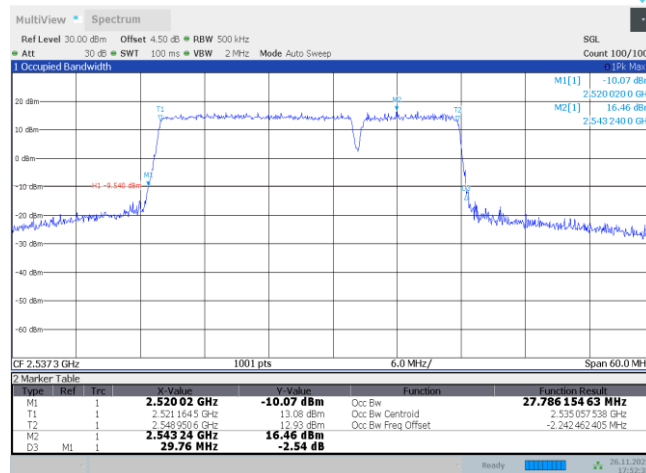


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17:51:56 26.11.2023

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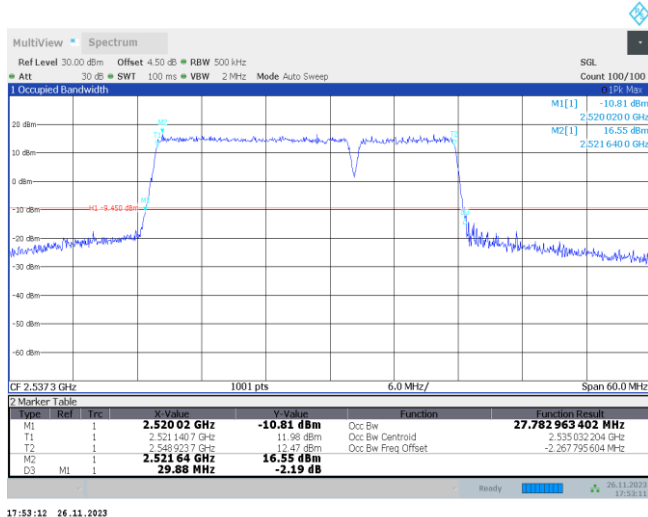


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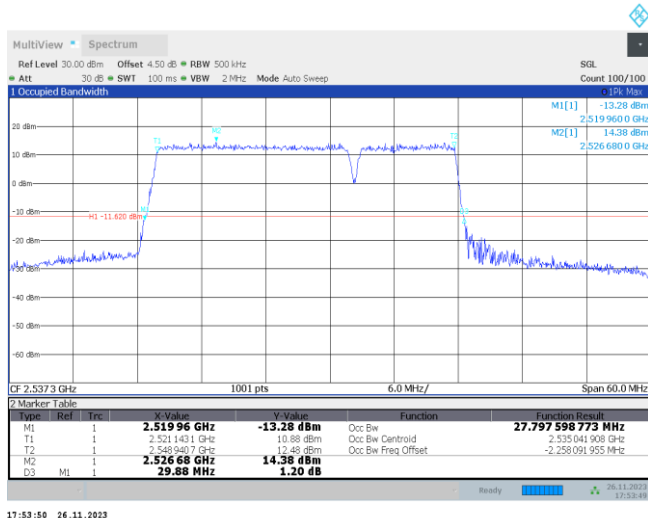
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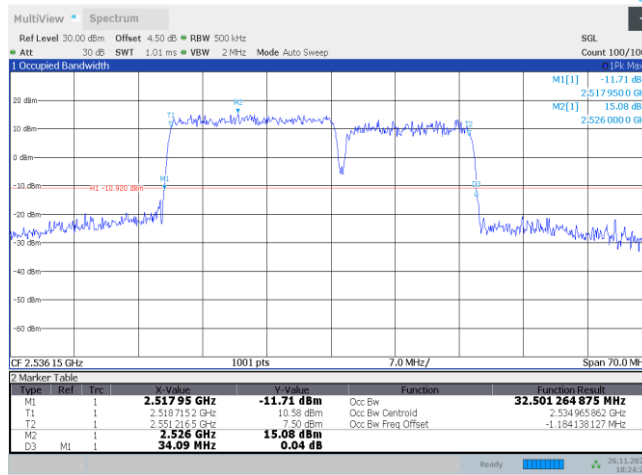


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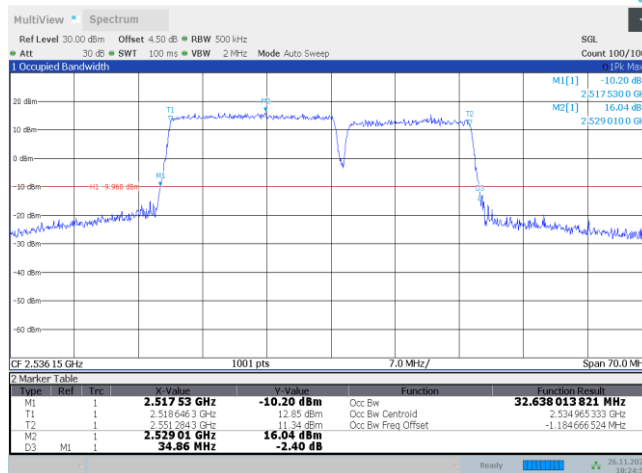
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7-7-20MHz-15MHz-QPSK-QPSK-21026-21197-100RB#0-75RB#0



18:24:22 26.11.2023

7-7-20MHz-15MHz-16QAM-16QAM-21026-21197-100RB#0-75RB#0



18:24:59 26.11.2023

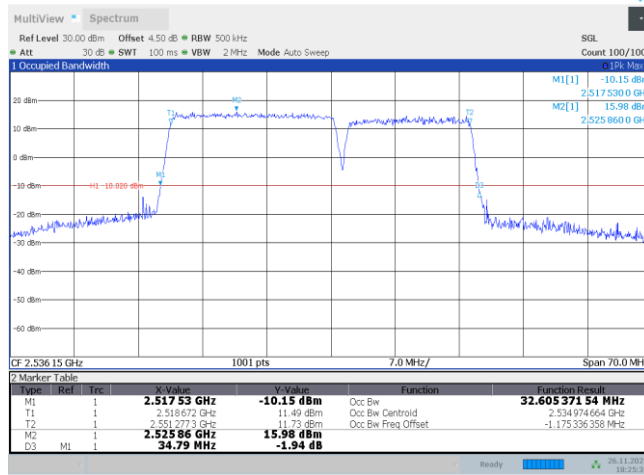


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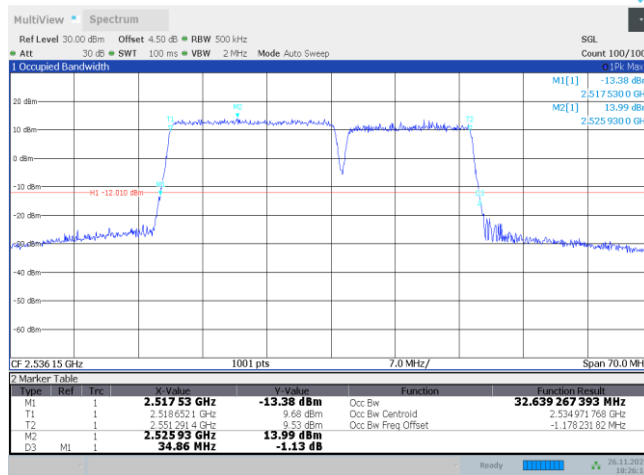
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18:25:38 26.11.2023

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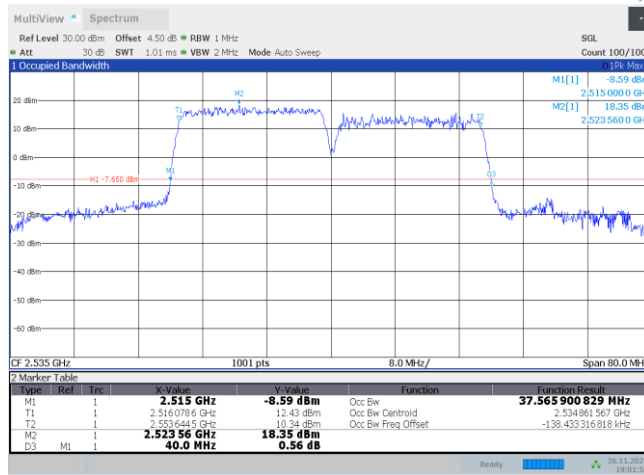


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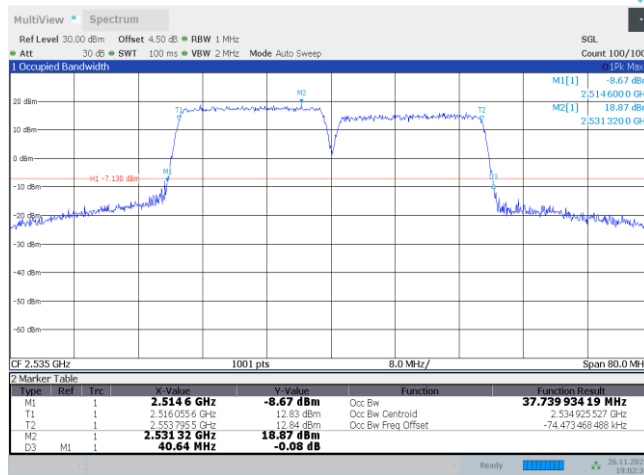
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7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-100RB#0-100RB#0



19:01:56 26.11.2023

7-7-20MHz-20MHz-16QAM-16QAM-21001-21199-100RB#0-100RB#0



19:02:34 26.11.2023

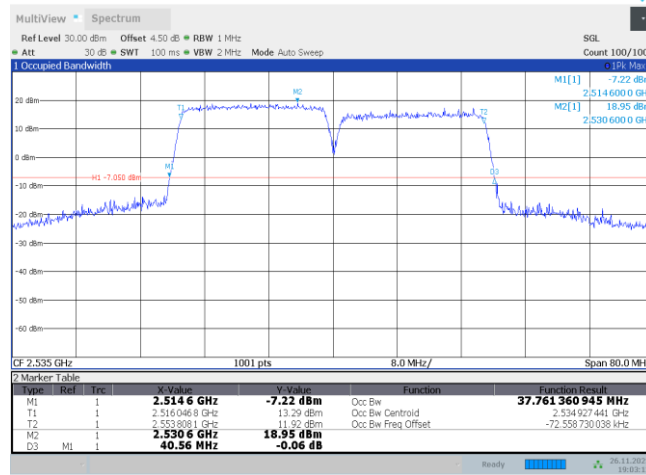


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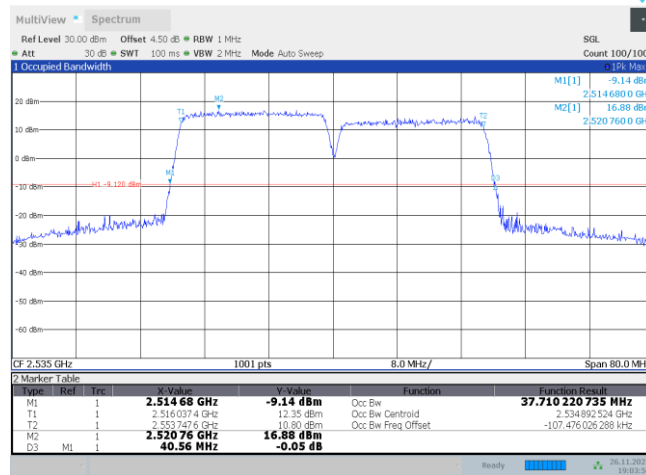
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7-7-20MHz-20MHz-64QAM-64QAM-21001-21199-100RB#0-100RB#0



19:03:12 26.11.2023

7-7-20MHz-20MHz-256QAM-256QAM-21001-21199-100RB#0-100RB#0



19:03:50 26.11.2023



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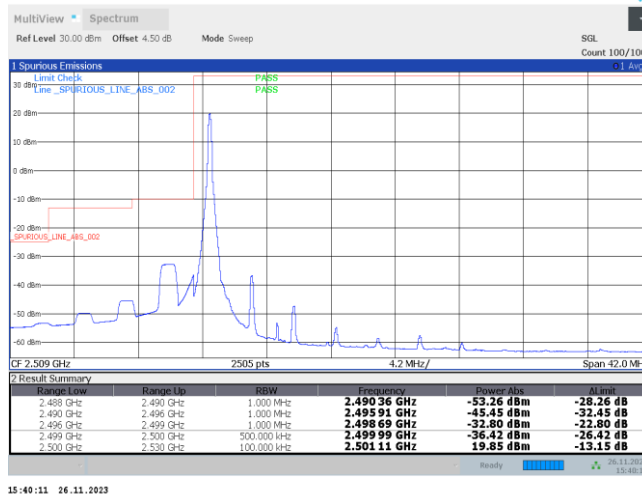
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## Band Edge

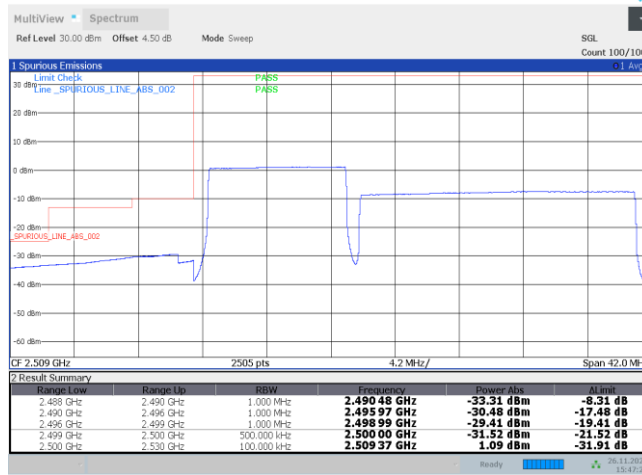
## Test Graphs

7-7-10MHz-20MHz-QPSK-QPSK-20805-20949-1RB#0-0RB#0



15:40:11 26.11.2023

7-7-10MHz-20MHz-QPSK-QPSK-20805-20949-50RB#0-100RB#0



15:47:23 26.11.2023



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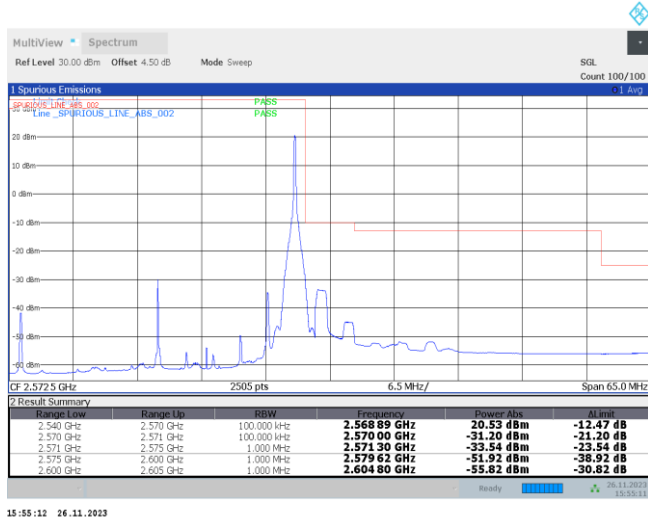
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7-7-10MHz-20MHz-QPSK-QPSK-21206-21350-0RB#0-1RB#99



15:55:12 26.11.2023

7-7-10MHz-20MHz-QPSK-QPSK-21206-21350-50RB#0-100RB#0



16:02:35 26.11.2023

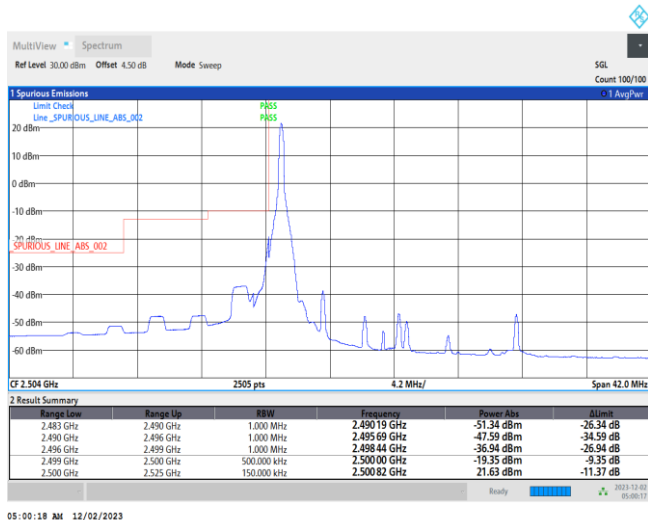


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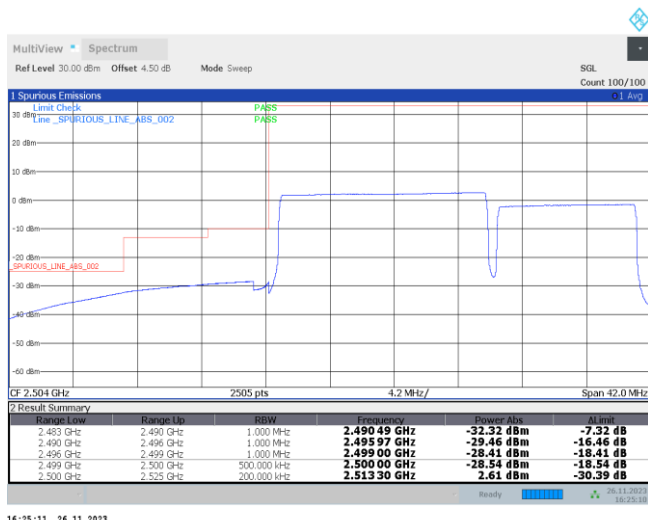


7-7-15MHz-10MHz-QPSK-QPSK-20825-20945-1RB#0-0RB#0



05:00:18 AM 12/02/2023

7-7-15MHz-10MHz-QPSK-QPSK-20825-20945-75RB#0-50RB#0



16:25:11 26.11.2023

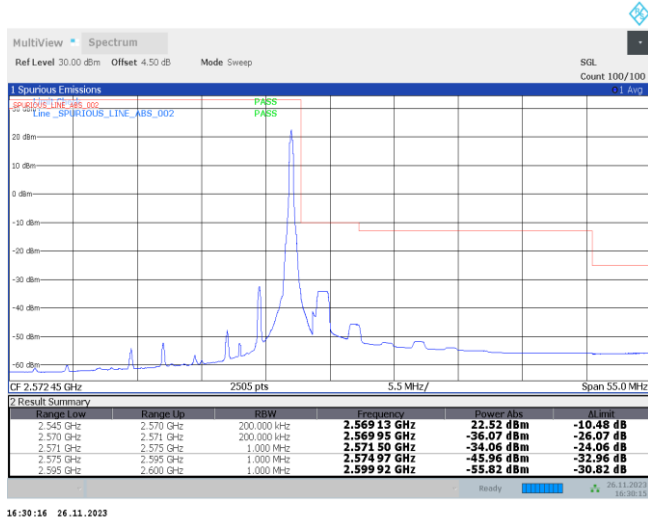


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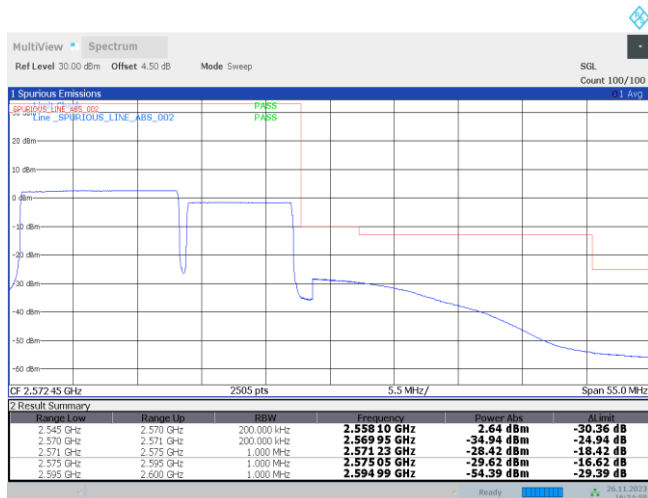
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7-7-15MHZ-10MHZ-QPSK-QPSK-21277-21397-0RB#0-1RB#49



16:30:16 26.11.2023

7-7-15MHZ-10MHZ-QPSK-QPSK-21277-21397-75RB#0-50RB#0



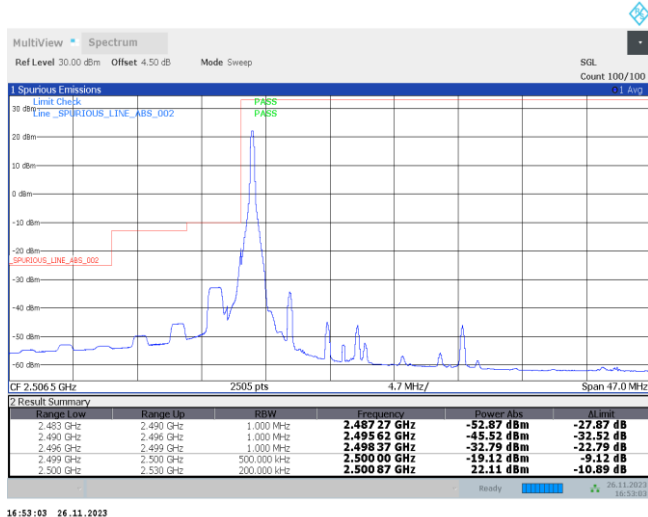
16:34:58 26.11.2023



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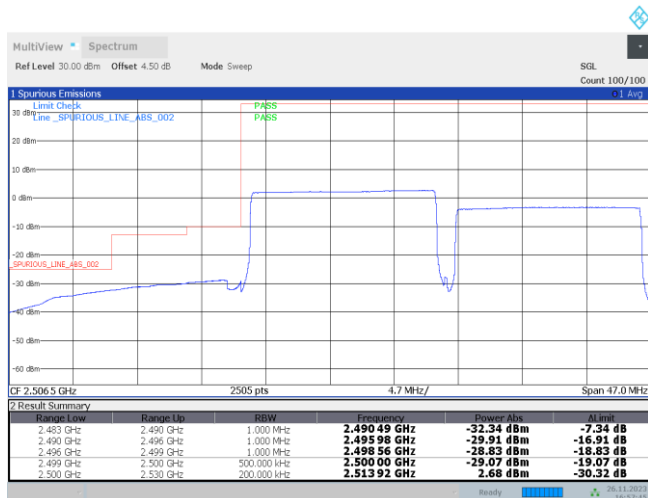
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7-7-15MHz-15MHz-QPSK-QPSK-20825-20975-1RB#0-0RB#0



16:53:03 26.11.2023

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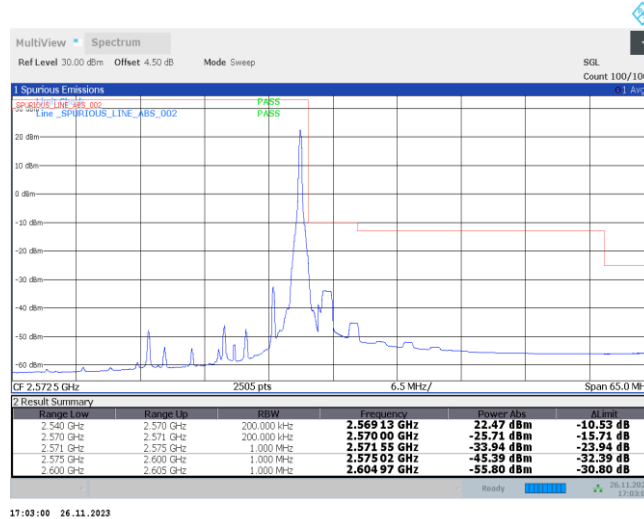
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7-7-15MHz-15MHz-QPSK-QPSK-21225-21375-0RB#0-1RB#74



17:03:00 26.11.2023

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17:07:54 26.11.2023

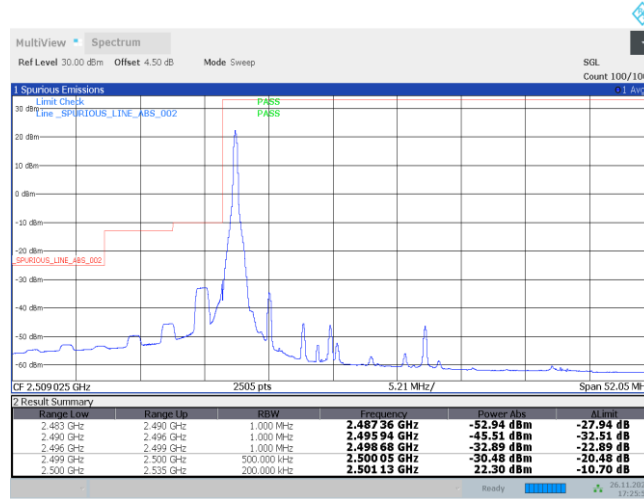


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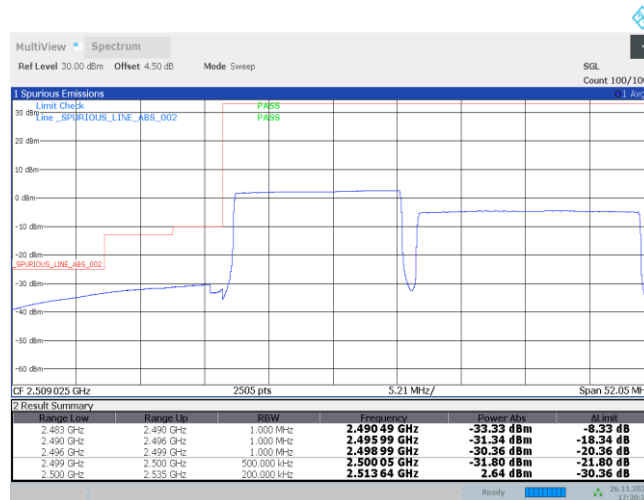
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7-7-15MHz-20MHz-QPSK-QPSK-20828-20999-1RB#0-0RB#0



17:25:56 26.11.2023

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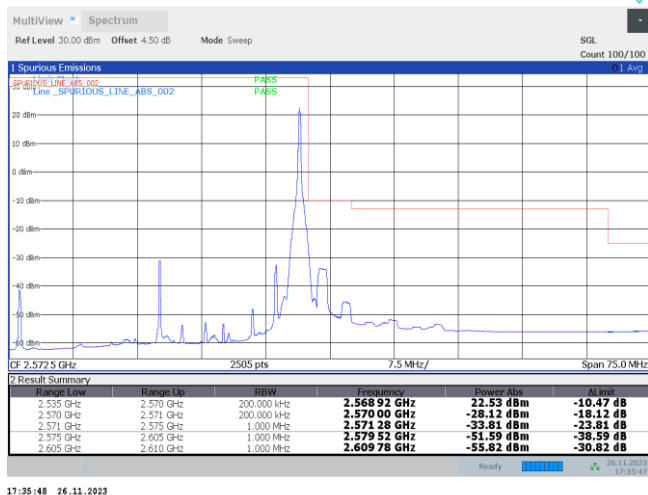


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7-7-15MHz-20MHz-QPSK-QPSK-21179-21350-0RB#0-1RB#99



17:35:48 26.11.2023

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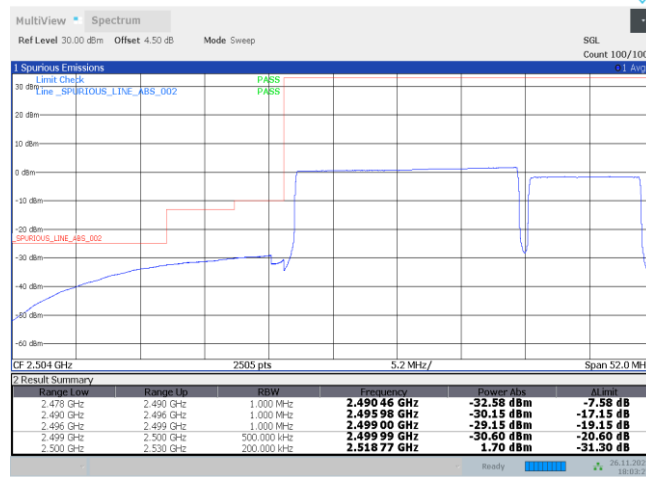
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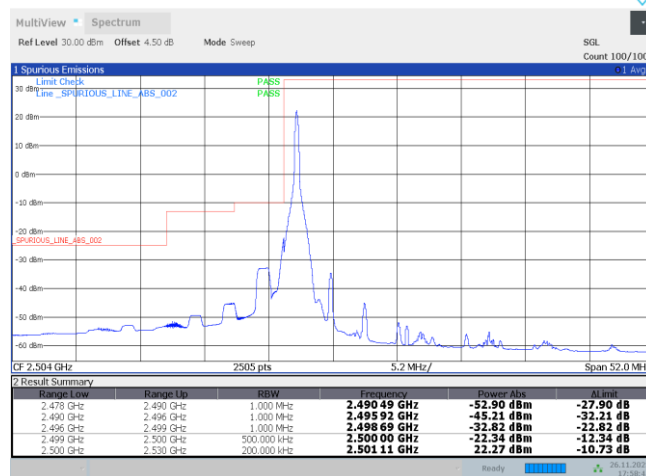
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7-7-20MHz-10MHz-QPSK-QPSK-20850-20994-100RB#0-50RB#0



18:03:28 26.11.2023

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17:58:46 26.11.2023

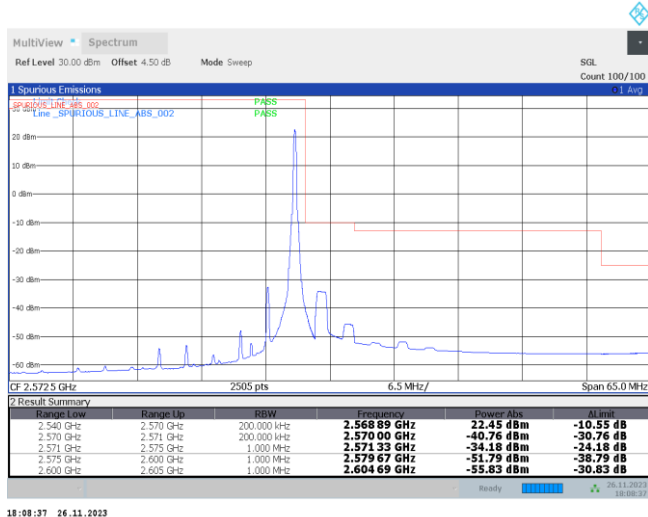


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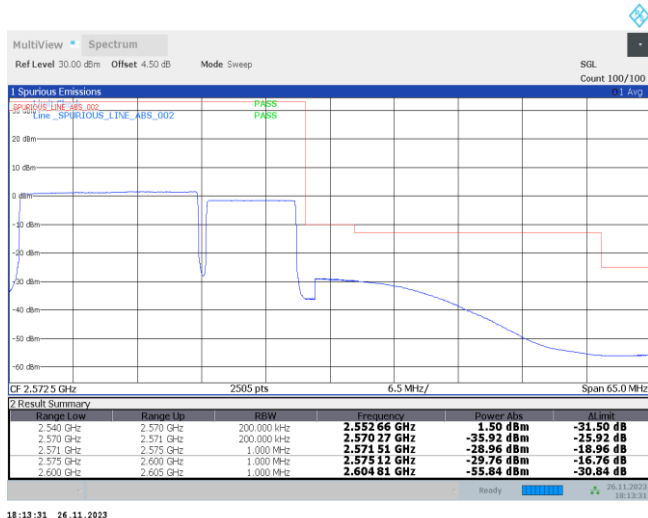
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7-7-20MHz-10MHz-QPSK-QPSK-21251-21395-0RB#0-1RB#49



18:08:37 26.11.2023

7-7-20MHz-10MHz-QPSK-QPSK-21251-21395-100RB#0-50RB#0



18:13:31 26.11.2023

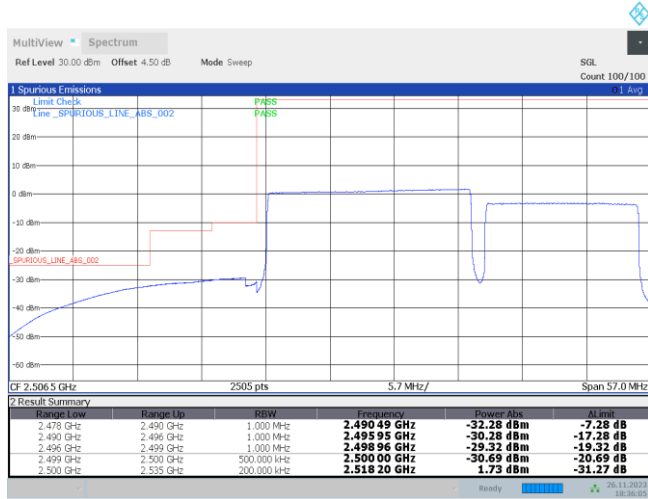


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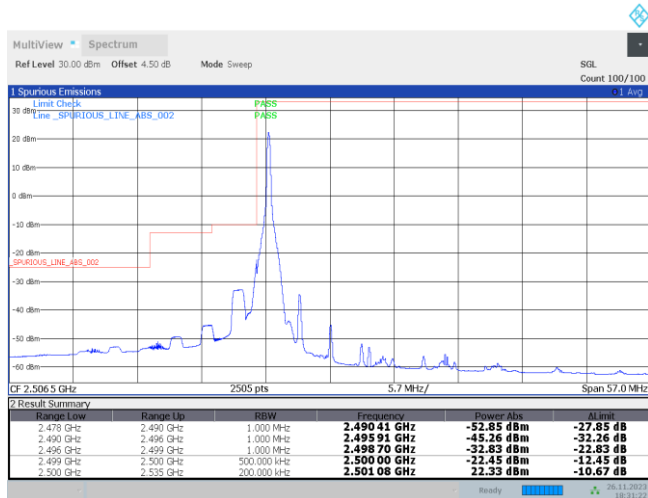


7-7-20MHz-15MHz-QPSK-QPSK-20850-21021-100RB#0-75RB#0



18:34:05 26.11.2023

7-7-20MHz-15MHz-QPSK-QPSK-20850-21021-1RB#0-0RB#0



18:31:22 26.11.2023

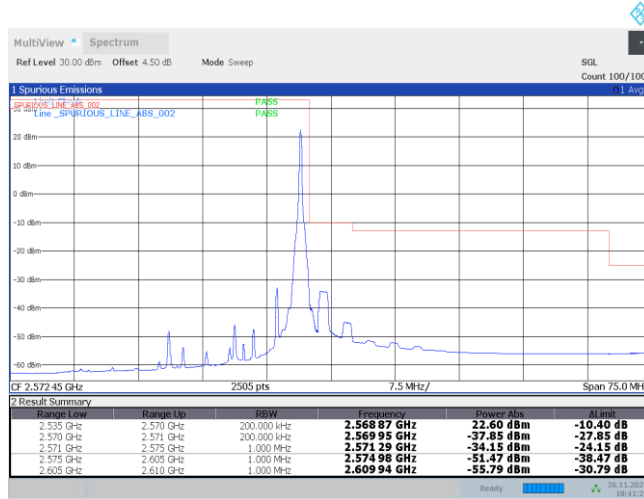


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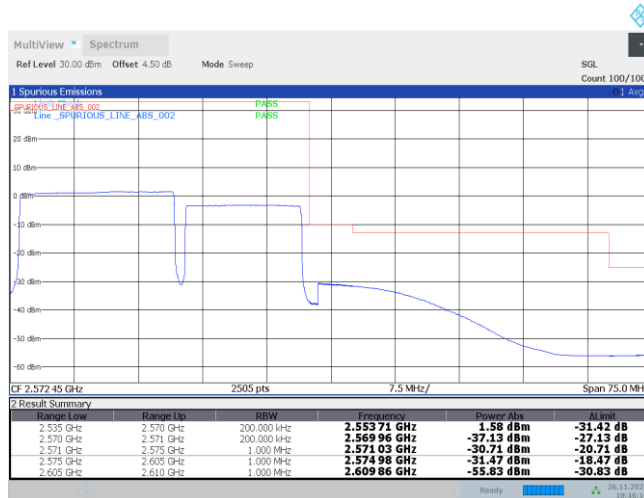
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7-7-20MHz-15MHz-QPSK-QPSK-21201-21372-0RB#0-1RB#74



18:41:22 26.11.2023

7-7-20MHz-15MHz-QPSK-QPSK-21201-21372-100RB#0-75RB#0



18:46:16 26.11.2023

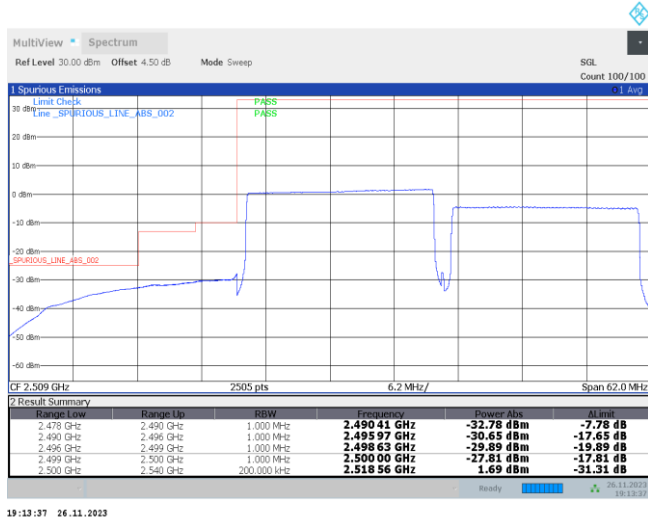


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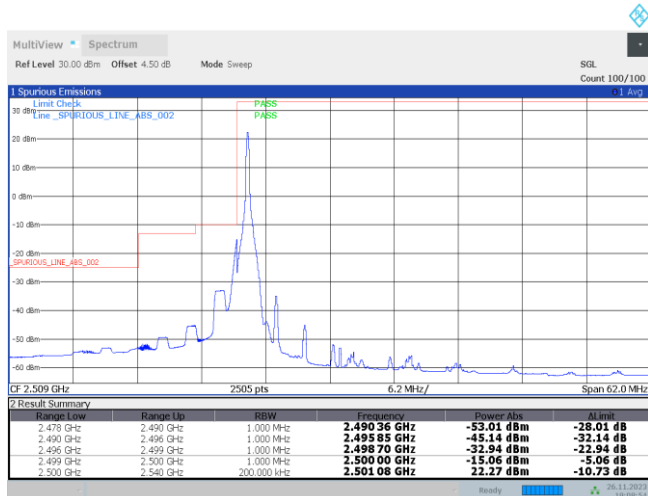
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7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-100RB#0-100RB#0



19:13:37 26.11.2023

7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-1RB#0-0RB#0



19:08:54 26.11.2023

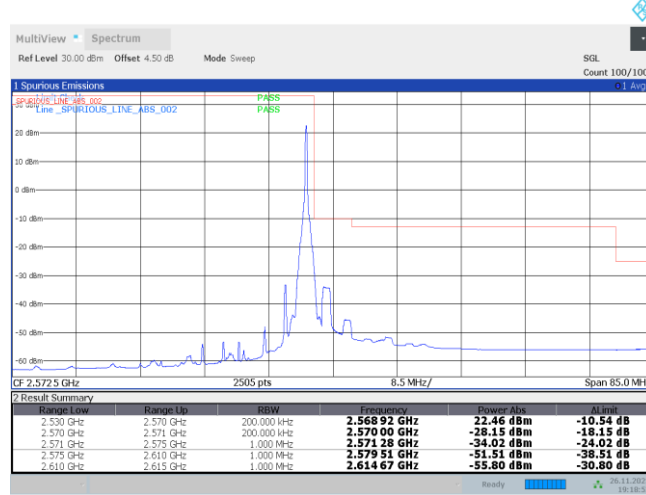


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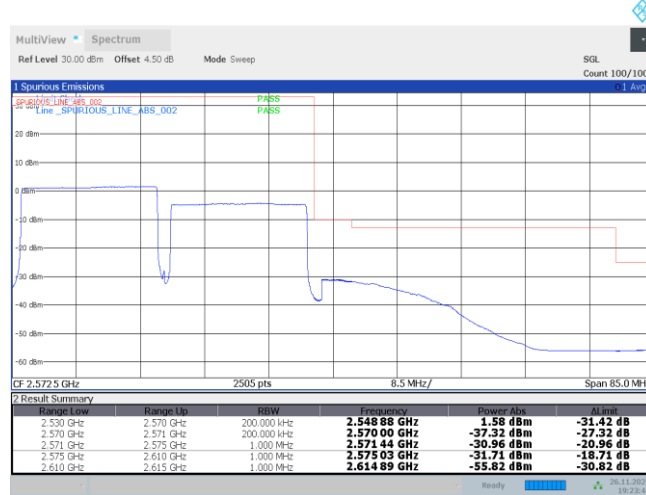
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7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-0RB#0-1RB#99



19:18:52 26.11.2023

7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-100RB#0-100RB#0



19:23:46 26.11.2023



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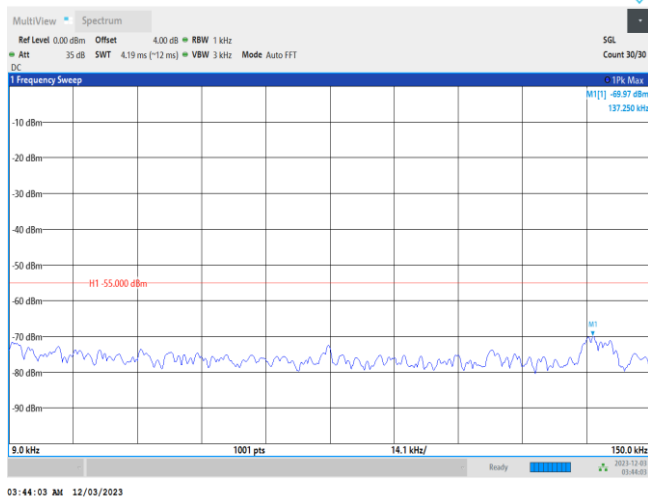
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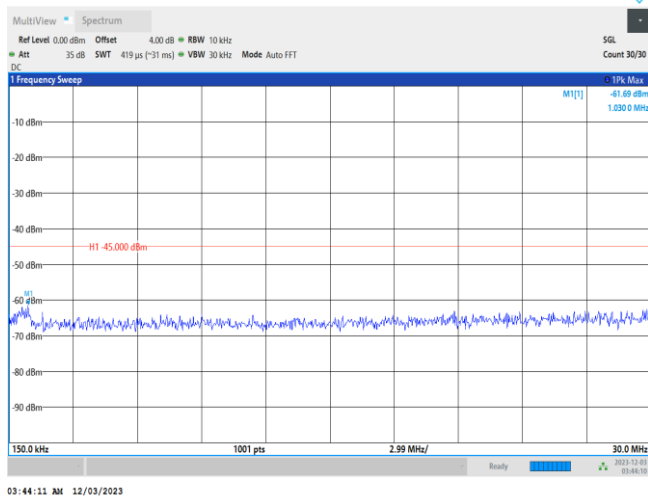
## Conducted Spurious Emission

### Test Graphs

7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-1RB#0-0RB#0-0.009~0.15MHz



7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-1RB#0-0RB#0-0.15~30MHz



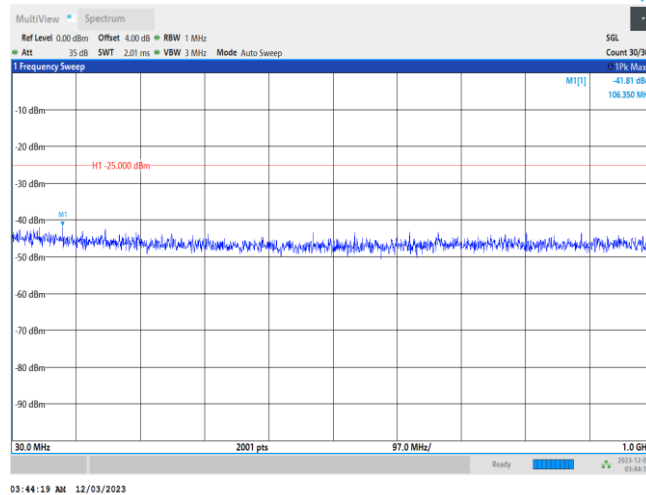
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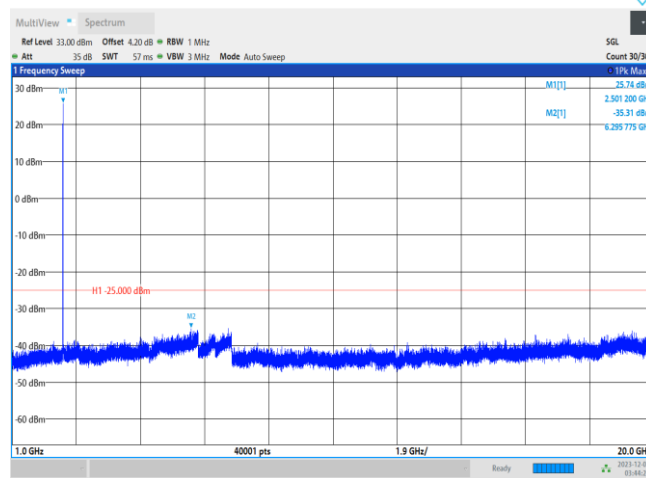
Member of the SGS Group (SGS SA)

7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-1RB#0-0RB#0-30~1000MHz



03:44:19 AM 12/03/2023

7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-1RB#0-0RB#0-1000~20000MHz



03:44:27 AM 12/03/2023

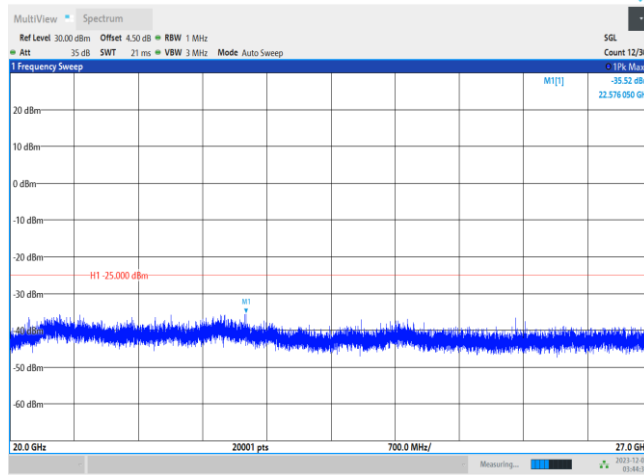


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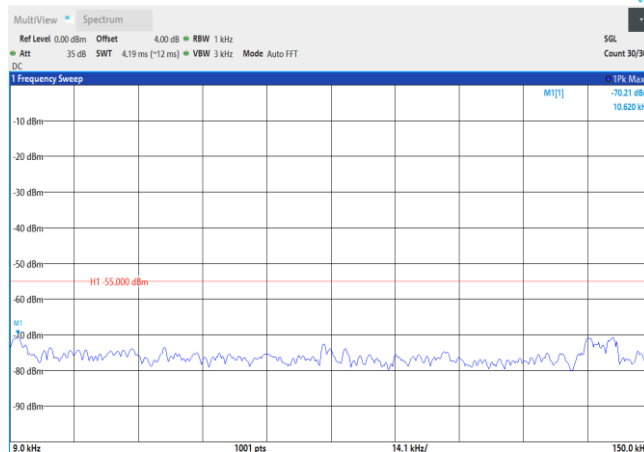
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7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-1RB#0-0RB#0-20000~27000MHz



03:44:35 AM 12/03/2023

7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-1RB#0-0RB#0-0.009~0.15MHz



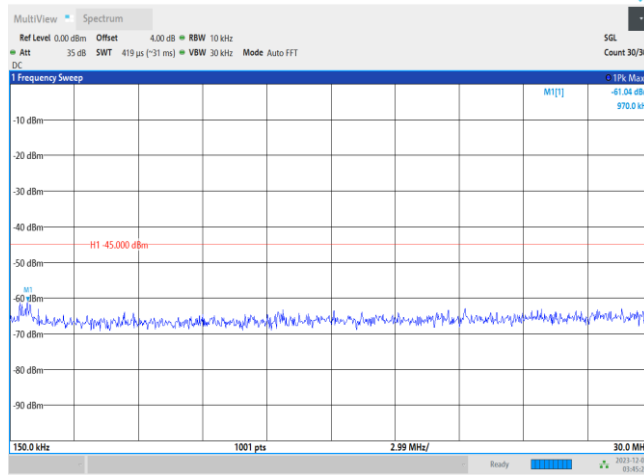
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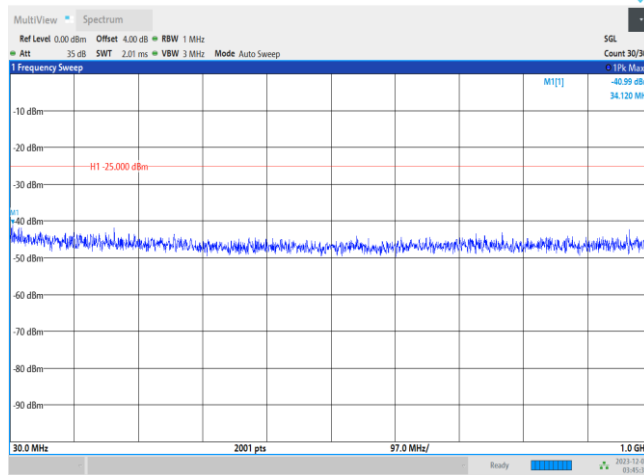
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7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-1RB#0-0RB#0-0.15~30MHz



03:45:25 AM 12/03/2023

7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-1RB#0-0RB#0-30~1000MHz



03:45:33 AM 12/03/2023



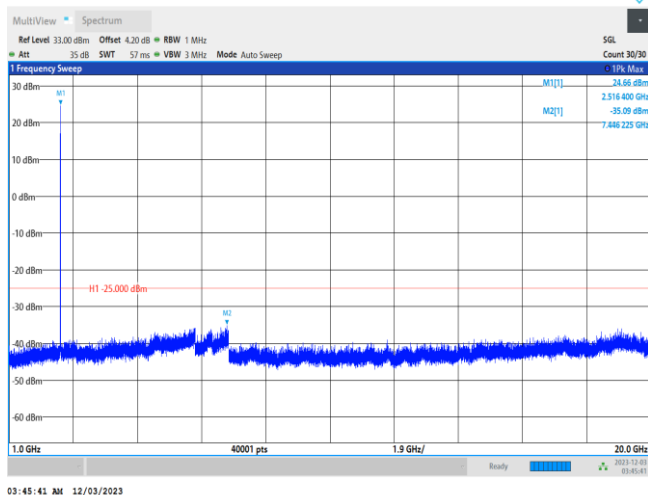
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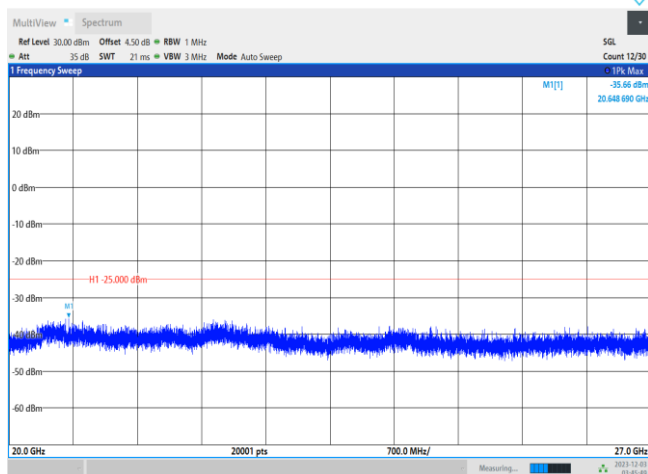


7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-1RB#0-0RB#0-1000~20000MHz



03:45:41 AM 12/03/2023

7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-1RB#0-0RB#0-20000~27000MHz



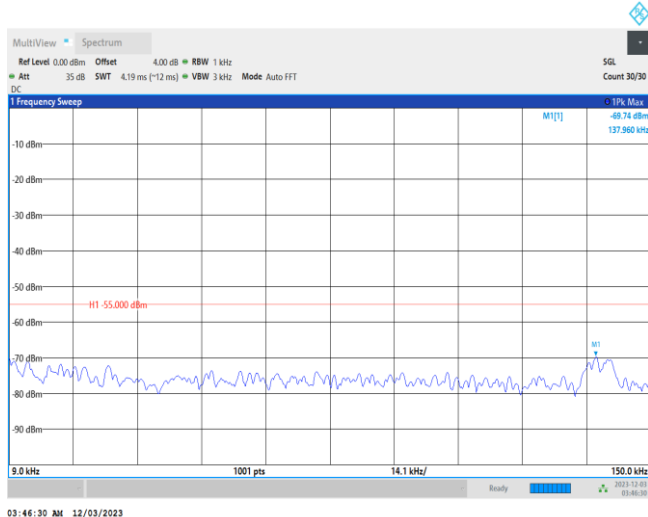
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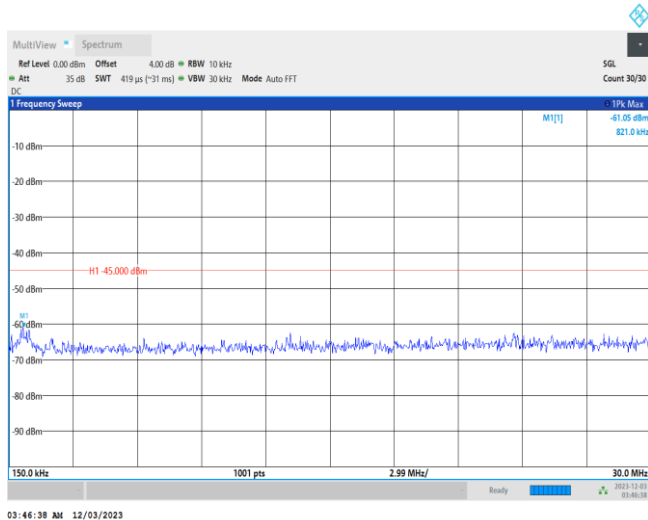
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7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-1RB#0-0RB#0-0.15~30MHz

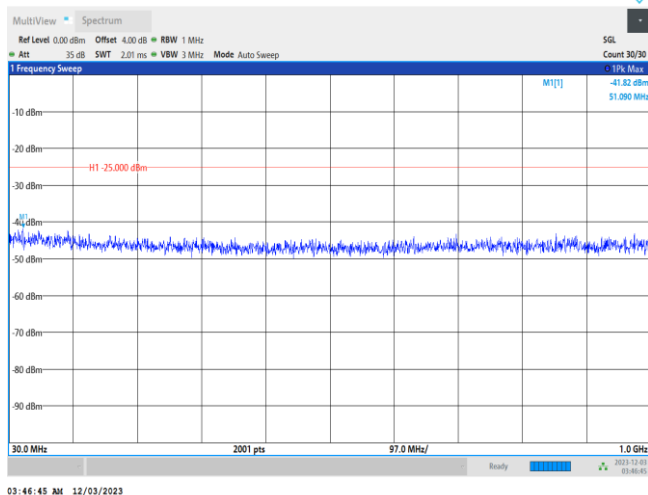


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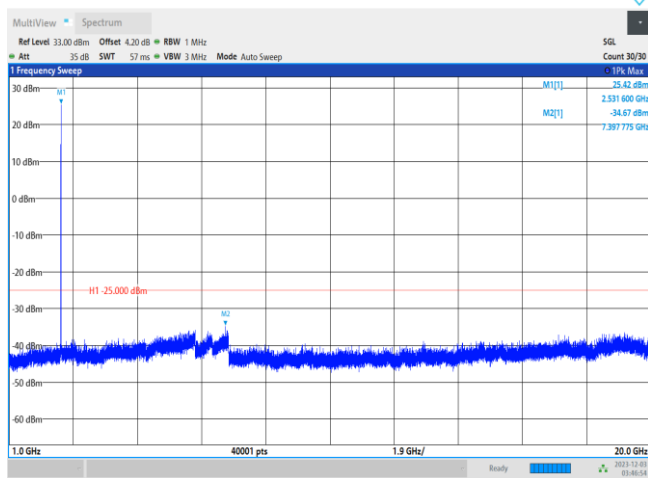
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7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-1RB#0-0RB#0-30~1000MHz



03:46:45 AM 12/03/2023

7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-1RB#0-0RB#0-1000~20000MHz



03:46:54 AM 12/03/2023

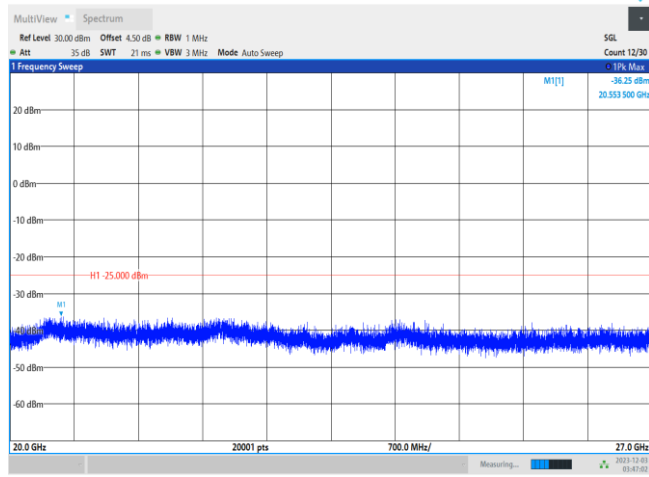


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7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-1RB#0-0RB#0-20000~27000MHz



03:47:02 AM 12/03/2023



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### Field Strength of Spurious Radiation

Test Band = LTE Band7\_CA\_TM1  
 Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5002.1800	39.32	-45.63	31.41	-70.17	-25.00	45.17	Horizontal
2	7503.2700	37.26	-43.13	36.60	-64.53	-25.00	39.53	Horizontal
3	10004.3600	31.50	-39.23	38.20	-64.79	-25.00	39.79	Horizontal
4	12505.4500	25.94	-36.99	38.95	-67.36	-25.00	42.36	Horizontal
5	15006.5400	23.75	-34.65	41.29	-64.88	-25.00	39.88	Horizontal
6	17507.6300	26.46	-34.95	44.59	-59.16	-25.00	34.16	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5002.1800	41.61	-45.63	31.41	-67.88	-25.00	42.88	Vertical
2	7503.2700	38.67	-43.13	36.60	-63.12	-25.00	38.12	Vertical
3	10004.3600	31.87	-39.23	38.20	-64.42	-25.00	39.42	Vertical
4	12505.4500	25.45	-36.99	38.95	-67.85	-25.00	42.85	Vertical
5	15006.5400	23.15	-34.65	41.29	-65.48	-25.00	40.48	Vertical
6	17507.6300	25.77	-34.95	44.59	-59.85	-25.00	34.85	Vertical



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SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.  
 Wireless Laboratory

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Test Band = LTE Band7\_CA\_TM1

Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5032.3800	39.55	-45.55	31.48	-69.78	-25.00	44.78	Horizontal
2	7548.2700	39.34	-43.04	36.62	-62.34	-25.00	37.34	Horizontal
3	10064.7600	31.45	-39.16	38.23	-64.74	-25.00	39.74	Horizontal
4	12580.9500	26.49	-37.49	38.97	-67.29	-25.00	42.29	Horizontal
5	15097.1400	23.96	-34.94	41.10	-65.15	-25.00	40.15	Horizontal
6	17613.3300	25.63	-33.34	45.06	-57.91	-25.00	32.91	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5032.3800	40.26	-45.55	31.48	-69.07	-25.00	44.07	Vertical
2	7548.2700	37.26	-43.04	36.62	-64.42	-25.00	39.42	Vertical
3	10064.7600	31.33	-39.16	38.23	-64.86	-25.00	39.86	Vertical
4	12580.9500	26.12	-37.49	38.97	-67.66	-25.00	42.66	Vertical
5	15097.1400	23.87	-34.94	41.10	-65.24	-25.00	40.24	Vertical
6	17613.3300	26.02	-33.34	45.06	-57.52	-25.00	32.52	Vertical



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Test Band = LTE Band7\_CA\_TM1

Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5062.5800	39.67	-45.47	31.55	-69.51	-25.00	44.51	Horizontal
2	7593.8700	38.11	-42.94	36.64	-63.46	-25.00	38.46	Horizontal
3	10125.1600	30.91	-39.22	38.26	-65.30	-25.00	40.30	Horizontal
4	12656.4500	26.49	-37.09	39.00	-66.86	-25.00	41.86	Horizontal
5	15187.7400	24.04	-34.04	40.91	-64.36	-25.00	39.36	Horizontal
6	17719.0300	26.31	-34.15	45.54	-57.56	-25.00	32.56	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5062.5800	40.63	-45.47	31.55	-68.55	-25.00	43.55	Vertical
2	7593.8700	37.39	-42.94	36.64	-64.18	-25.00	39.18	Vertical
3	10125.1600	31.86	-39.22	38.26	-64.35	-25.00	39.35	Vertical
4	12656.4500	26.15	-37.09	39.00	-67.20	-25.00	42.20	Vertical
5	15187.7400	24.11	-34.04	40.91	-64.29	-25.00	39.29	Vertical
6	17719.0300	26.12	-34.15	45.54	-57.75	-25.00	32.75	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

2) All antennas of RSE are tested, and only the worst data is presented.



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## Frequency Stability

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
7-7	20MHz -20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	VH	NT	25.90	0.010257	PASS
7-7	20MHz -20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	VL	NT	20.90	0.008277	PASS
7-7	20MHz -20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	VN	NT	27.80	0.011009	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
7-7	20MHz -20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	-30	23.60	0.009346	PASS
7-7	20MHz -20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	-20	24.50	0.009703	PASS
7-7	20MHz -20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	-10	29.30	0.011604	PASS
7-7	20MHz -20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	0	26.20	0.010376	PASS
7-7	20MHz -20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	10	25.30	0.010019	PASS
7-7	20MHz -20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	20	22.60	0.008950	PASS
7-7	20MHz -20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	30	21.60	0.008554	PASS
7-7	20MHz -20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	40	21.90	0.008673	PASS
7-7	20MHz -20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	50	16.30	0.005326	PASS

---End of Attachment---



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