

Report No.: SEWM2309000386RG01

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Appendix B.11

LTE CA_7C



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Effective (Isotropic) Radiated Power Output Data

Test Result

ANT5

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	24.16	22.56	33.00	PASS
7-7	10MHz-20MHz	QPSK-QPSK	20805-20949	50RB#0-100RB#0	23.08	21.48	33.00	PASS
7-7	10MHz-20MHz	QPSK-QPSK	21006-21150	1RB#0-0RB#0	24.15	22.55	33.00	PASS
7-7	10MHz-20MHz	QPSK-QPSK	21006-21150	50RB#0-100RB#0	23.02	21.42	33.00	PASS
7-7	10MHz-20MHz	QPSK-QPSK	21206-21350	1RB#0-0RB#0	24.23	22.63	33.00	PASS
7-7	10MHz-20MHz	QPSK-QPSK	21206-21350	50RB#0-100RB#0	23.09	21.49	33.00	PASS
7-7	10MHz-20MHz	16QAM-16QAM	20805-20949	1RB#0-0RB#0	23.34	21.74	33.00	PASS
7-7	10MHz-20MHz	16QAM-16QAM	20805-20949	50RB#0-100RB#0	22.06	20.46	33.00	PASS
7-7	10MHz-20MHz	16QAM-16QAM	21006-21150	1RB#0-0RB#0	23.3	21.7	33.00	PASS
7-7	10MHz-20MHz	16QAM-16QAM	21006-21150	50RB#0-100RB#0	22.09	20.49	33.00	PASS
7-7	10MHz-20MHz	16QAM-16QAM	21206-21350	1RB#0-0RB#0	23.5	21.9	33.00	PASS
7-7	10MHz-20MHz	16QAM-16QAM	21206-21350	50RB#0-100RB#0	22.11	20.51	33.00	PASS
7-7	10MHz-20MHz	64QAM-64QAM	20805-20949	1RB#0-0RB#0	22.55	20.95	33.00	PASS
7-7	10MHz-20MHz	64QAM-64QAM	20805-20949	50RB#0-100RB#0	21.85	20.25	33.00	PASS
7-7	10MHz-20MHz	64QAM-64QAM	21006-21150	1RB#0-0RB#0	22.53	20.93	33.00	PASS
7-7	10MHz-20MHz	64QAM-64QAM	21006-21150	50RB#0-100RB#0	22.14	20.54	33.00	PASS
7-7	10MHz-20MHz	64QAM-64QAM	21206-21350	1RB#0-0RB#0	22.74	21.14	33.00	PASS
7-7	10MHz-20MHz	64QAM-64QAM	21206-21350	50RB#0-100RB#0	22.07	20.47	33.00	PASS
7-7	10MHz-20MHz	256QAM-256QAM	20805-20949	1RB#0-0RB#0	19.59	17.99	33.00	PASS
7-7	10MHz-20MHz	256QAM-256QAM	20805-20949	50RB#0-100RB#0	20.04	18.44	33.00	PASS
7-7	10MHz-20MHz	256QAM-256QAM	21006-21150	1RB#0-0RB#0	19.42	17.82	33.00	PASS
7-7	10MHz-20MHz	256QAM-256QAM	21006-21150	50RB#0-100RB#0	20.05	18.45	33.00	PASS
7-7	10MHz-20MHz	256QAM-256QAM	21206-21350	1RB#0-0RB#0	19.51	17.91	33.00	PASS
7-7	10MHz-20MHz	256QAM-256QAM	21206-21350	50RB#0-100RB#0	20.13	18.53	33.00	PASS
7-7	15MHz-10MHz	QPSK-QPSK	20825-20945	1RB#0-0RB#0	24.18	22.58	33.00	PASS
7-7	15MHz-10MHz	QPSK-QPSK	20825-20945	75RB#0-50RB#0	23.07	21.47	33.00	PASS
7-7	15MHz-10MHz	QPSK-QPSK	21051-21171	1RB#0-0RB#0	24.13	22.53	33.00	PASS



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7-7	15MHz-10MHz	QPSK-QPSK	21051-21171	75RB#0-50RB#0	23.06	21.46	33.00	PASS
7-7	15MHz-10MHz	QPSK-QPSK	21277-21397	1RB#0-0RB#0	24.21	22.61	33.00	PASS
7-7	15MHz-10MHz	QPSK-QPSK	21277-21397	75RB#0-50RB#0	23.09	21.49	33.00	PASS
7-7	15MHz-10MHz	16QAM-16QAM	20825-20945	1RB#0-0RB#0	23.46	21.86	33.00	PASS
7-7	15MHz-10MHz	16QAM-16QAM	20825-20945	75RB#0-50RB#0	22.15	20.55	33.00	PASS
7-7	15MHz-10MHz	16QAM-16QAM	21051-21171	1RB#0-0RB#0	23.22	21.62	33.00	PASS
7-7	15MHz-10MHz	16QAM-16QAM	21051-21171	75RB#0-50RB#0	22.1	20.5	33.00	PASS
7-7	15MHz-10MHz	16QAM-16QAM	21277-21397	1RB#0-0RB#0	23.36	21.76	33.00	PASS
7-7	15MHz-10MHz	16QAM-16QAM	21277-21397	75RB#0-50RB#0	22.11	20.51	33.00	PASS
7-7	15MHz-10MHz	64QAM-64QAM	20825-20945	1RB#0-0RB#0	22.53	20.93	33.00	PASS
7-7	15MHz-10MHz	64QAM-64QAM	20825-20945	75RB#0-50RB#0	21.79	20.19	33.00	PASS
7-7	15MHz-10MHz	64QAM-64QAM	21051-21171	1RB#0-0RB#0	22.51	20.91	33.00	PASS
7-7	15MHz-10MHz	64QAM-64QAM	21051-21171	75RB#0-50RB#0	21.95	20.35	33.00	PASS
7-7	15MHz-10MHz	64QAM-64QAM	21277-21397	1RB#0-0RB#0	22.61	21.01	33.00	PASS
7-7	15MHz-10MHz	64QAM-64QAM	21277-21397	75RB#0-50RB#0	22.09	20.49	33.00	PASS
7-7	15MHz-10MHz	256QAM-256QAM	20825-20945	1RB#0-0RB#0	19.61	18.01	33.00	PASS
7-7	15MHz-10MHz	256QAM-256QAM	20825-20945	75RB#0-50RB#0	20.07	18.47	33.00	PASS
7-7	15MHz-10MHz	256QAM-256QAM	21051-21171	1RB#0-0RB#0	19.35	17.75	33.00	PASS
7-7	15MHz-10MHz	256QAM-256QAM	21051-21171	75RB#0-50RB#0	20.05	18.45	33.00	PASS
7-7	15MHz-10MHz	256QAM-256QAM	21277-21397	1RB#0-0RB#0	19.43	17.83	33.00	PASS
7-7	15MHz-10MHz	256QAM-256QAM	21277-21397	75RB#0-50RB#0	20.1	18.5	33.00	PASS
7-7	15MHz-15MHz	QPSK-QPSK	20825-20975	1RB#0-0RB#0	24.16	22.56	33.00	PASS
7-7	15MHz-15MHz	QPSK-QPSK	20825-20975	75RB#0-75RB#0	23.08	21.48	33.00	PASS
7-7	15MHz-15MHz	QPSK-QPSK	21025-21175	1RB#0-0RB#0	24.13	22.53	33.00	PASS
7-7	15MHz-15MHz	QPSK-QPSK	21025-21175	75RB#0-75RB#0	23.37	21.77	33.00	PASS
7-7	15MHz-15MHz	QPSK-QPSK	21225-21375	1RB#0-0RB#0	24.2	22.6	33.00	PASS
7-7	15MHz-15MHz	QPSK-QPSK	21225-21375	75RB#0-75RB#0	23.12	21.52	33.00	PASS
7-7	15MHz-15MHz	16QAM-16QAM	20825-20975	1RB#0-0RB#0	23.45	21.85	33.00	PASS
7-7	15MHz-15MHz	16QAM-16QAM	20825-20975	75RB#0-75RB#0	22.08	20.48	33.00	PASS
7-7	15MHz-15MHz	16QAM-16QAM	21025-21175	1RB#0-0RB#0	23.21	21.61	33.00	PASS
7-7	15MHz-15MHz	16QAM-16QAM	21025-21175	75RB#0-75RB#0	22.05	20.45	33.00	PASS
7-7	15MHz-15MHz	16QAM-16QAM	21225-21375	1RB#0-0RB#0	23.43	21.83	33.00	PASS



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Table with 8 columns: Test ID, Frequency, Modulation, Standard, Modulation, SNR, SNR, SNR, Result. Contains 40 rows of test data.



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Table with 9 columns: Frequency, Modulation, Standard, Test ID, and various test results (e.g., 20.3, 18.7, 33.00, PASS).



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Table with 9 columns: Test No., Frequency, Modulation, Standard, Sample ID, and three measurement values. Rows 1-33 show various modulation types (QPSK, 16QAM, 64QAM, 256QAM) and standards (21026-21197, 21201-21372, 20850-21021, 21001-21199, 21152-21350) with results ranging from 19.8 to 24.53.



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7-7	20MHz-20MHz	16QAM-16QAM	21152-21350	1RB#0-0RB#0	23.63	22.03	33.00	PASS
7-7	20MHz-20MHz	64QAM-64QAM	20850-21048	100RB#0-100RB#0	22.01	20.41	33.00	PASS
7-7	20MHz-20MHz	64QAM-64QAM	20850-21048	1RB#0-0RB#0	22.76	21.16	33.00	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21001-21199	100RB#0-100RB#0	22.28	20.68	33.00	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21001-21199	1RB#0-0RB#0	22.54	20.94	33.00	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21152-21350	100RB#0-100RB#0	22.04	20.44	33.00	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21152-21350	1RB#0-0RB#0	22.67	21.07	33.00	PASS
7-7	20MHz-20MHz	256QAM-256QAM	20850-21048	100RB#0-100RB#0	20.34	18.74	33.00	PASS
7-7	20MHz-20MHz	256QAM-256QAM	20850-21048	1RB#0-0RB#0	19.69	18.09	33.00	PASS
7-7	20MHz-20MHz	256QAM-256QAM	21001-21199	100RB#0-100RB#0	20.26	18.66	33.00	PASS
7-7	20MHz-20MHz	256QAM-256QAM	21001-21199	1RB#0-0RB#0	19.55	17.95	33.00	PASS
7-7	20MHz-20MHz	256QAM-256QAM	21152-21350	100RB#0-100RB#0	20.28	18.68	33.00	PASS
7-7	20MHz-20MHz	256QAM-256QAM	21152-21350	1RB#0-0RB#0	19.62	18.02	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	21001-21199	100RB#0-100RB#0	6.12	13	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21152-21350	100RB#0-100RB#0	4.68	13	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21001-21199	100RB#0-100RB#0	6.74	13	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21152-21350	100RB#0-100RB#0	5.84	13	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21001-21199	100RB#0-100RB#0	6.90	13	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21152-21350	100RB#0-100RB#0	6.28	13	PASS
7-7	20MHz-20MHz	256QAM-256QAM	21001-21199	100RB#0-100RB#0	7.02	13	PASS
7-7	20MHz-20MHz	256QAM-256QAM	21152-21350	100RB#0-100RB#0	6.48	13	PASS

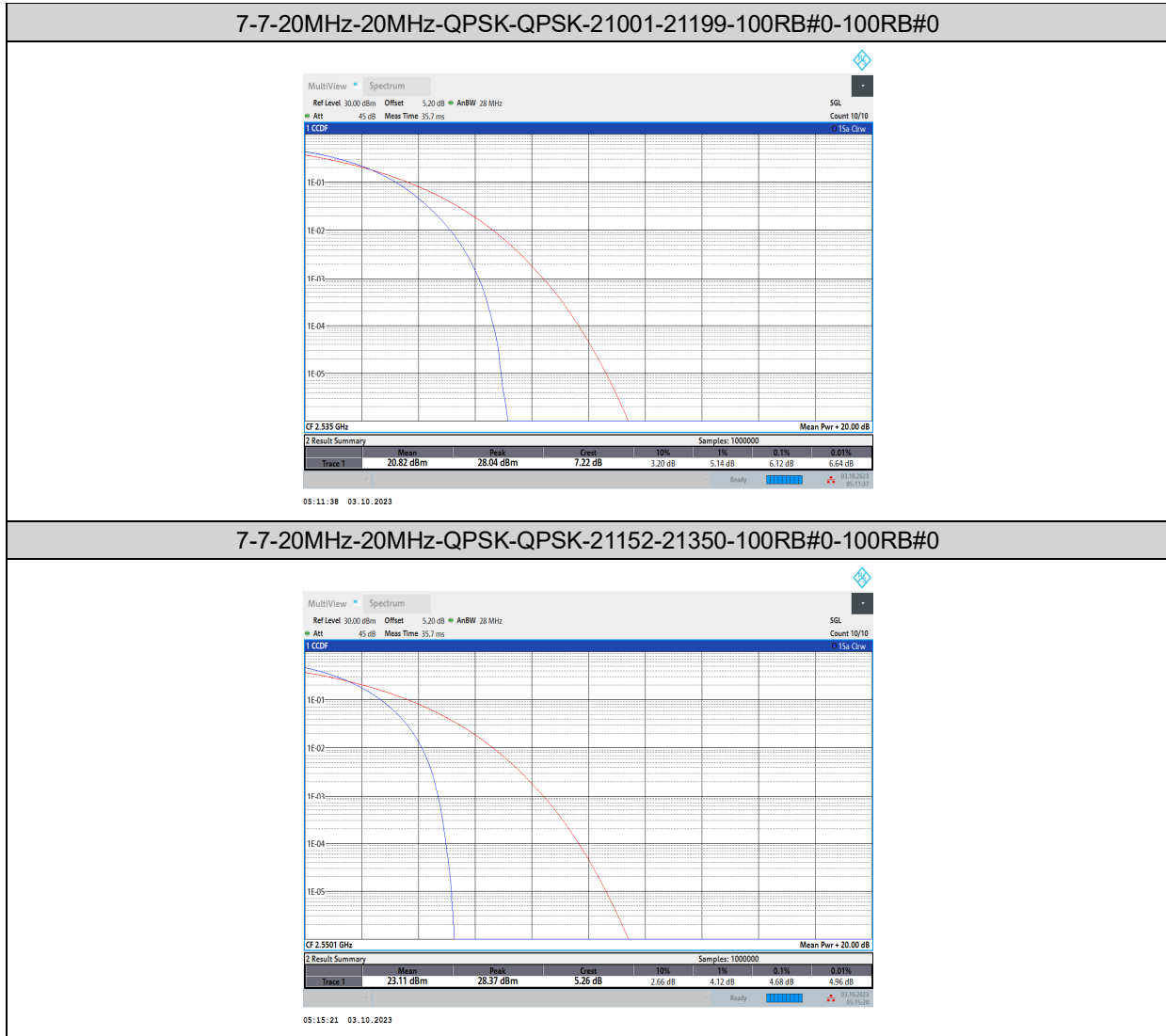


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Test Graphs

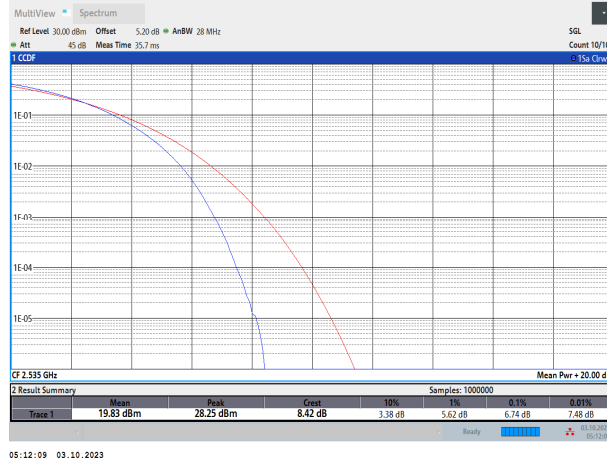


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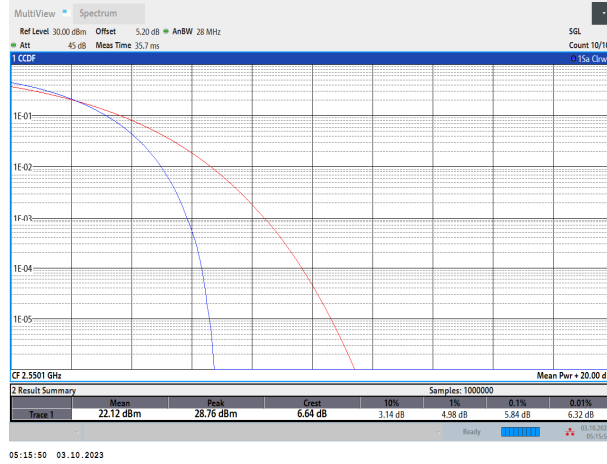
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7-7-20MHz-20MHz-16QAM-16QAM-21001-21199-100RB#0-100RB#0



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

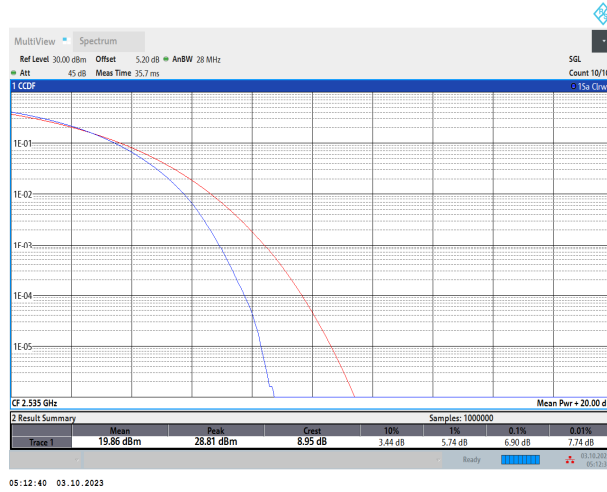


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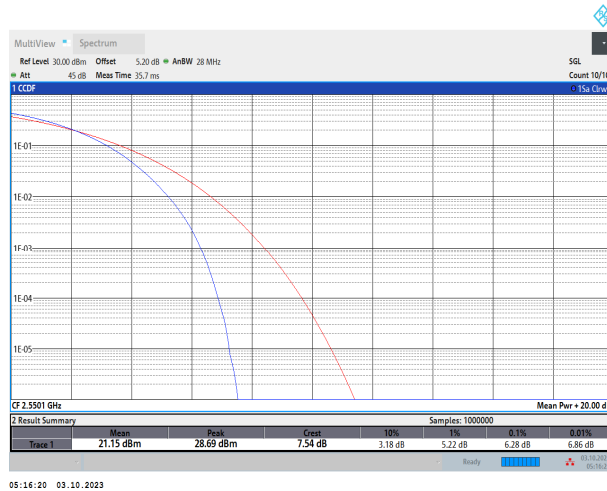
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7-7-20MHz-20MHz-64QAM-64QAM-21001-21199-100RB#0-100RB#0



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

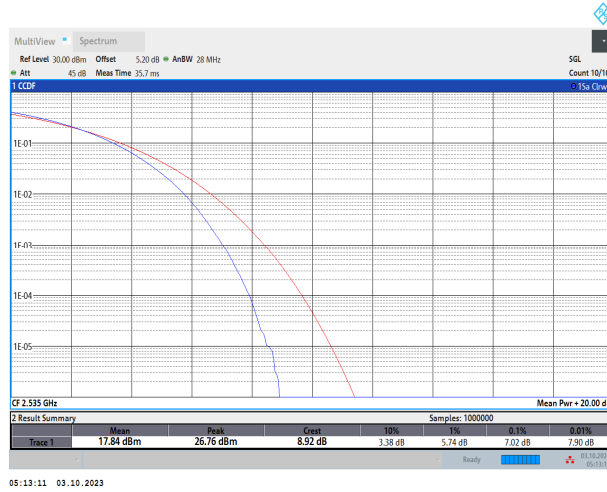


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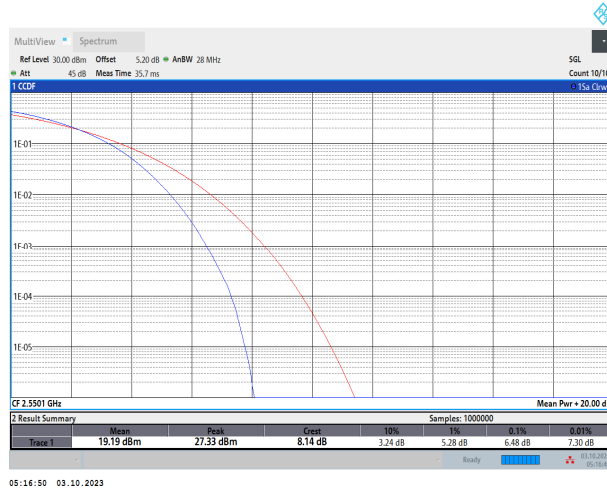
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7-7-20MHz-20MHz-256QAM-256QAM-21001-21199-100RB#0-100RB#0



7-7-20MHz-20MHz-256QAM-256QAM-21152-21350-100RB#0-100RB#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
7-7	10MHz-20MHz	QPSK-QPSK	21006-21150	50RB#0-100RB#0	27.762	29.52	PASS
7-7	10MHz-20MHz	16QAM-16QAM	21006-21150	50RB#0-100RB#0	27.709	29.46	PASS
7-7	10MHz-20MHz	64QAM-64QAM	21006-21150	50RB#0-100RB#0	27.767	29.40	PASS
7-7	10MHz-20MHz	256QAM-256QAM	21006-21150	50RB#0-100RB#0	27.735	29.40	PASS
7-7	15MHz-10MHz	QPSK-QPSK	21051-21171	75RB#0-50RB#0	23.181	24.95	PASS
7-7	15MHz-10MHz	16QAM-16QAM	21051-21171	75RB#0-50RB#0	23.171	24.90	PASS
7-7	15MHz-10MHz	64QAM-64QAM	21051-21171	75RB#0-50RB#0	23.16	25.15	PASS
7-7	15MHz-10MHz	256QAM-256QAM	21051-21171	75RB#0-50RB#0	23.191	24.75	PASS
7-7	15MHz-15MHz	QPSK-QPSK	21025-21175	75RB#0-75RB#0	28.376	30.06	PASS
7-7	15MHz-15MHz	16QAM-16QAM	21025-21175	75RB#0-75RB#0	28.334	30.36	PASS
7-7	15MHz-15MHz	64QAM-64QAM	21025-21175	75RB#0-75RB#0	28.273	30.36	PASS
7-7	15MHz-15MHz	256QAM-256QAM	21025-21175	75RB#0-75RB#0	28.353	30.18	PASS
7-7	15MHz-20MHz	QPSK-QPSK	21003-21174	75RB#0-100RB#0	32.614	34.58	PASS
7-7	15MHz-20MHz	16QAM-16QAM	21003-21174	75RB#0-100RB#0	32.636	34.51	PASS
7-7	15MHz-20MHz	64QAM-64QAM	21003-21174	75RB#0-100RB#0	32.635	34.51	PASS
7-7	15MHz-20MHz	256QAM-256QAM	21003-21174	75RB#0-100RB#0	32.605	34.65	PASS
7-7	20MHz-10MHz	QPSK-QPSK	21051-21195	100RB#0-50RB#0	27.826	29.64	PASS
7-7	20MHz-10MHz	16QAM-16QAM	21051-21195	100RB#0-50RB#0	27.748	29.64	PASS
7-7	20MHz-10MHz	64QAM-64QAM	21051-21195	100RB#0-50RB#0	27.771	29.58	PASS
7-7	20MHz-10MHz	256QAM-256QAM	21051-21195	100RB#0-50RB#0	27.742	29.58	PASS
7-7	20MHz-15MHz	QPSK-QPSK	21026-21197	100RB#0-75RB#0	32.626	34.72	PASS
7-7	20MHz-15MHz	16QAM-16QAM	21026-21197	100RB#0-75RB#0	32.648	34.72	PASS
7-7	20MHz-15MHz	64QAM-64QAM	21026-21197	100RB#0-75RB#0	32.687	34.72	PASS
7-7	20MHz-15MHz	256QAM-256QAM	21026-21197	100RB#0-75RB#0	32.648	34.79	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	37.591	40.64	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21001-21199	100RB#0-100RB#0	37.717	40.48	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21001-21199	100RB#0-100RB#0	37.756	40.48	PASS
7-7	20MHz-20MHz	256QAM-256QAM	21001-21199	100RB#0-100RB#0	37.744	40.56	PASS



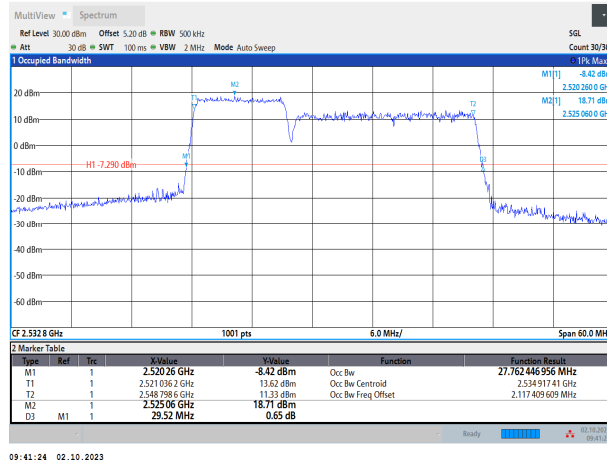
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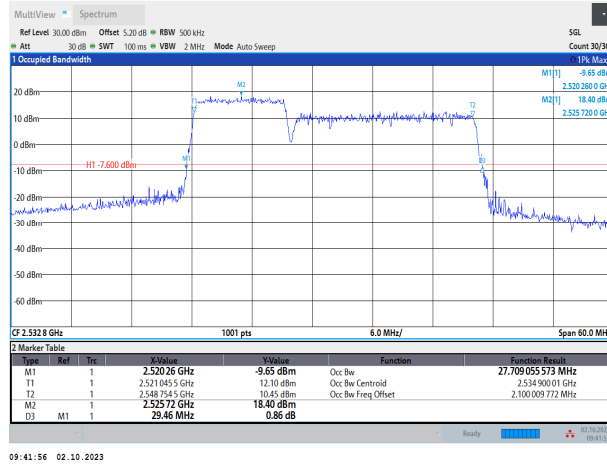
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Test Graphs

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



7-7-10MHz-20MHz-16QAM-16QAM-21006-21150-50RB#0-100RB#0

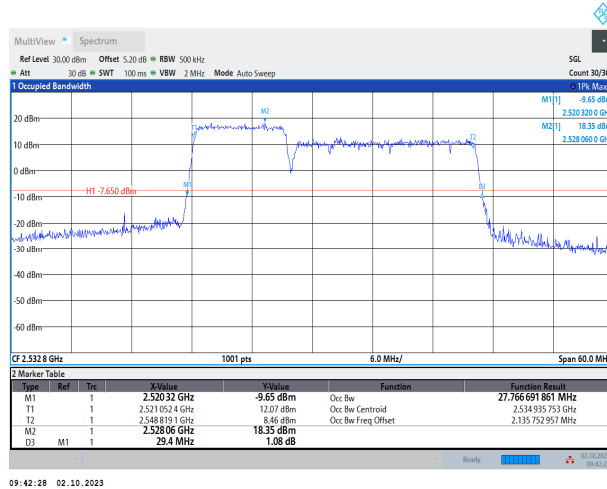


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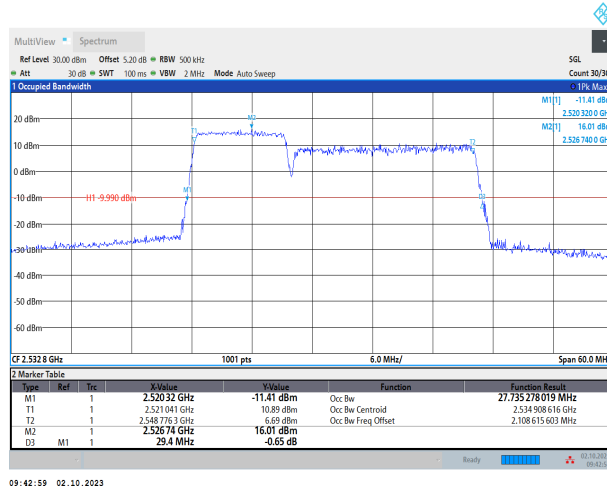
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7-7-10MHz-20MHz-64QAM-64QAM-21006-21150-50RB#0-100RB#0



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

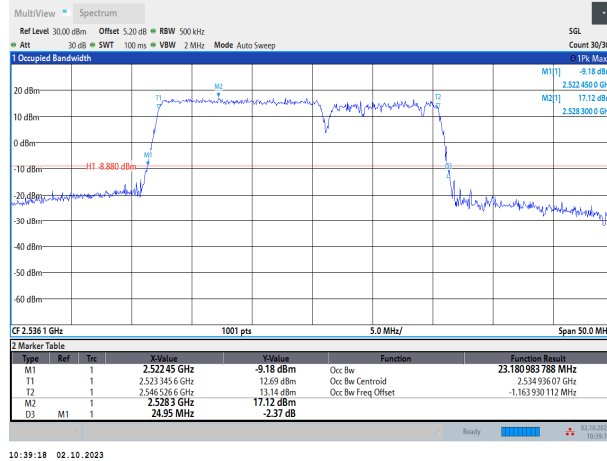


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7-7-15MHz-10MHz-QPSK-QPSK-21051-21171-75RB#0-50RB#0



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

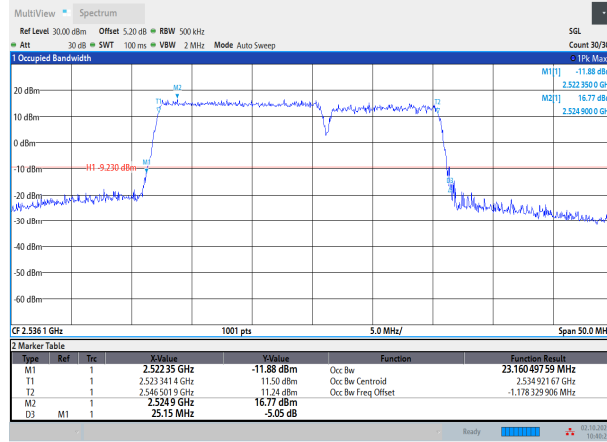


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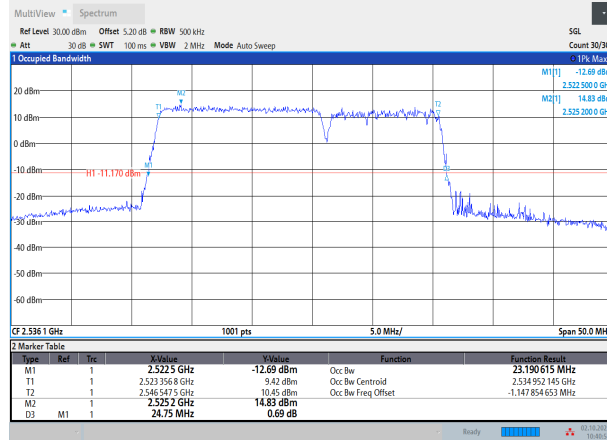
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7-7-15MHz-10MHz-64QAM-64QAM-21051-21171-75RB#0-50RB#0



10:40:21 02.10.2023

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



10:40:53 02.10.2023

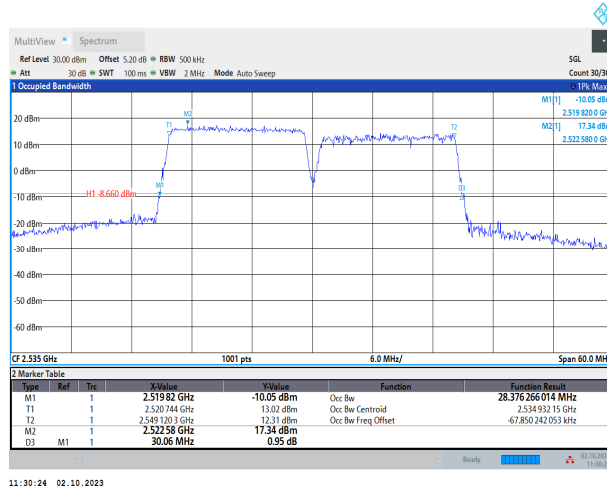


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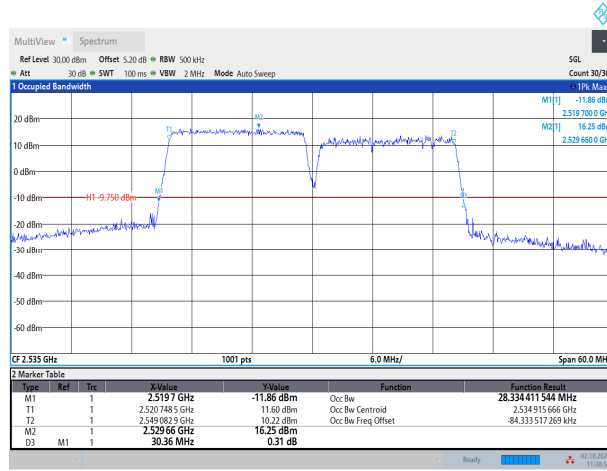
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7-7-15MHz-15MHz-QPSK-QPSK-21025-21175-75RB#0-75RB#0



11:30:24 02.10.2023

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



11:30:55 02.10.2023

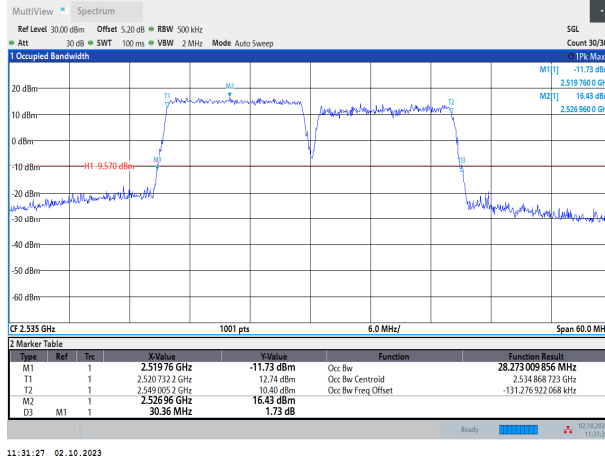


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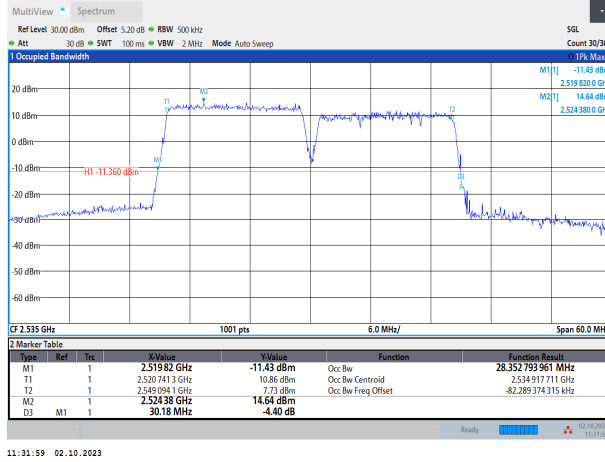
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7-7-15MHz-15MHz-64QAM-64QAM-21025-21175-75RB#0-75RB#0



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

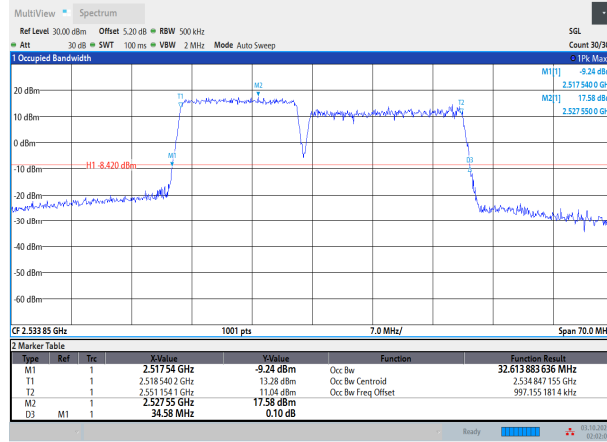


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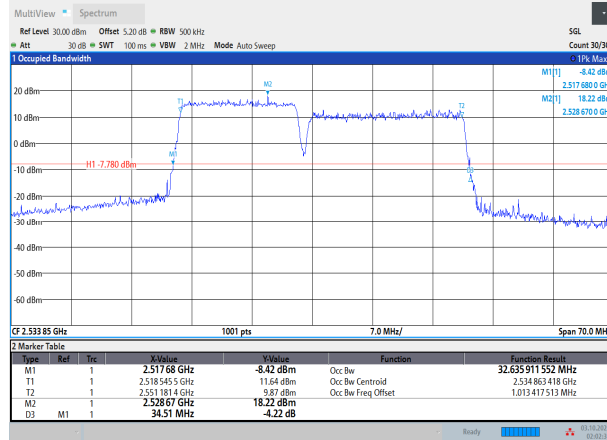
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7-7-15MHz-20MHz-QPSK-QPSK-21003-21174-75RB#0-100RB#0



02:02:05 03.10.2023

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



02:02:37 03.10.2023

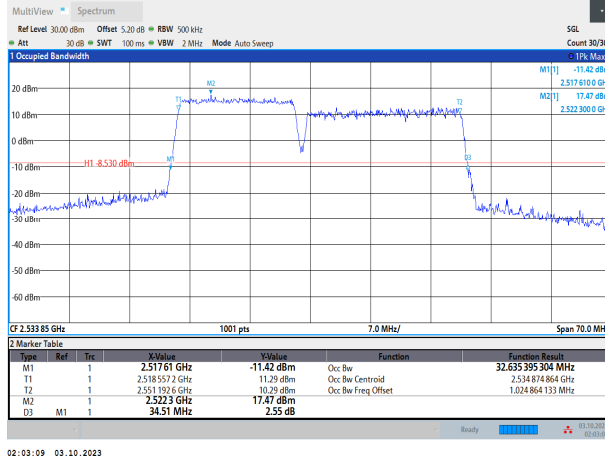


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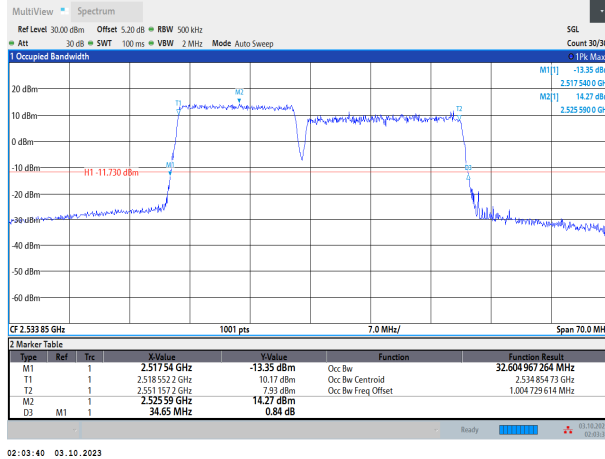
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7-7-15MHz-20MHz-64QAM-64QAM-21003-21174-75RB#0-100RB#0



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

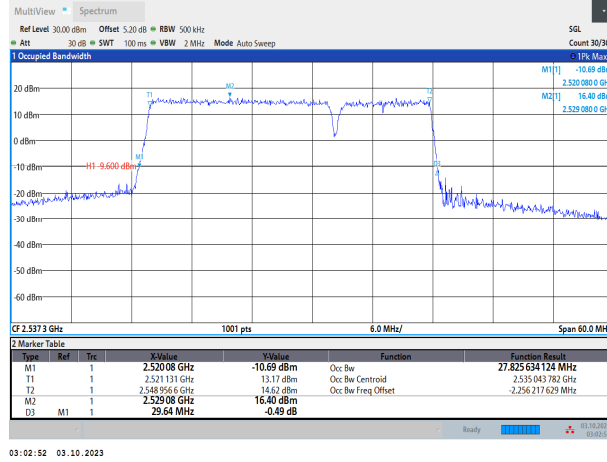


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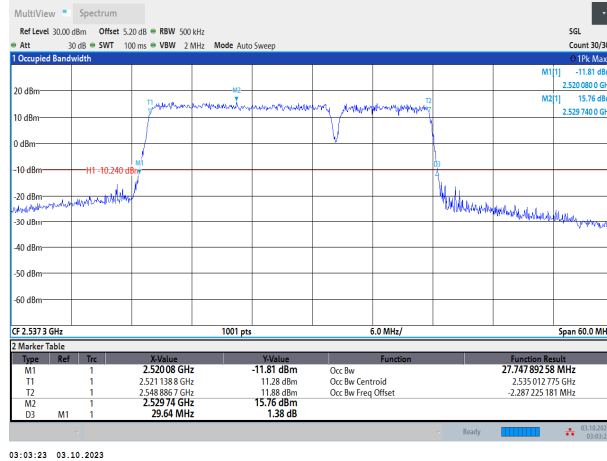
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7-7-20MHz-10MHz-QPSK-QPSK-21051-21195-100RB#0-50RB#0



7-7-20MHz-10MHz-16QAM-16QAM-21051-21195-100RB#0-50RB#0

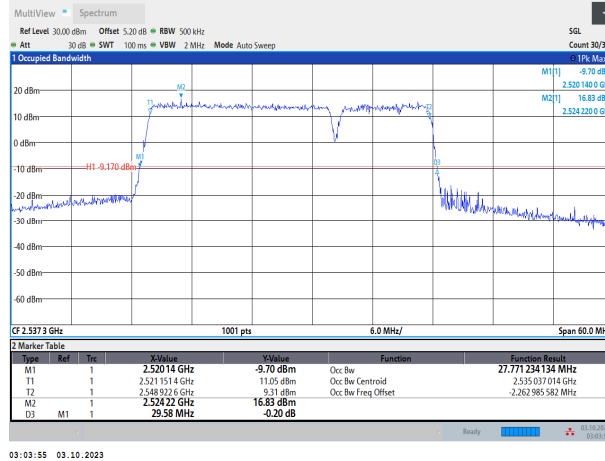


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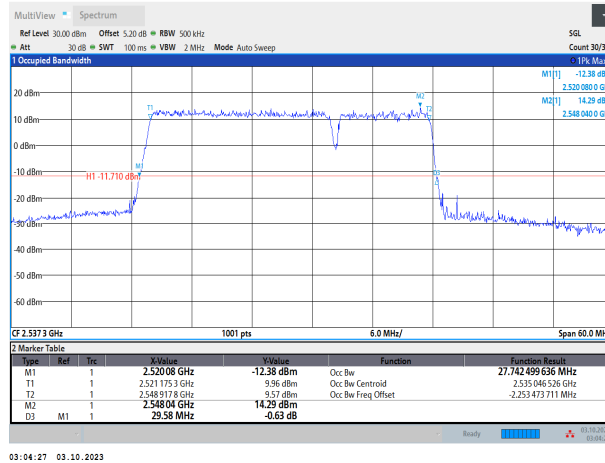
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7-7-20MHz-10MHz-64QAM-64QAM-21051-21195-100RB#0-50RB#0



7-7-20MHz-10MHz-256QAM-256QAM-21051-21195-100RB#0-50RB#0

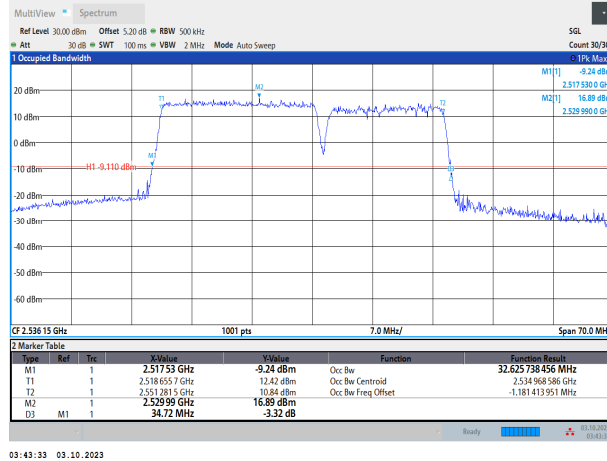


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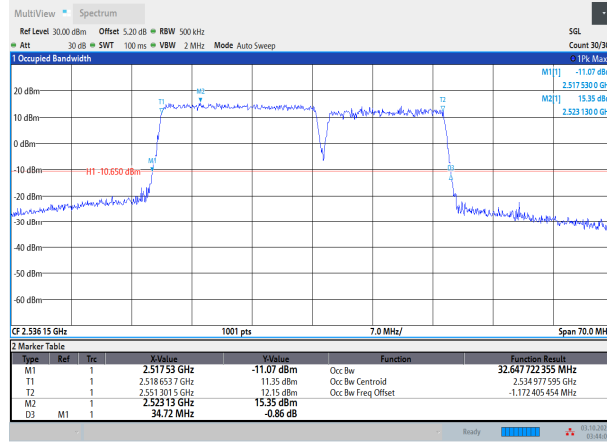
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7-7-20MHz-15MHz-QPSK-QPSK-21026-21197-100RB#0-75RB#0



03:43:33 03.10.2023

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



03:44:04 03.10.2023

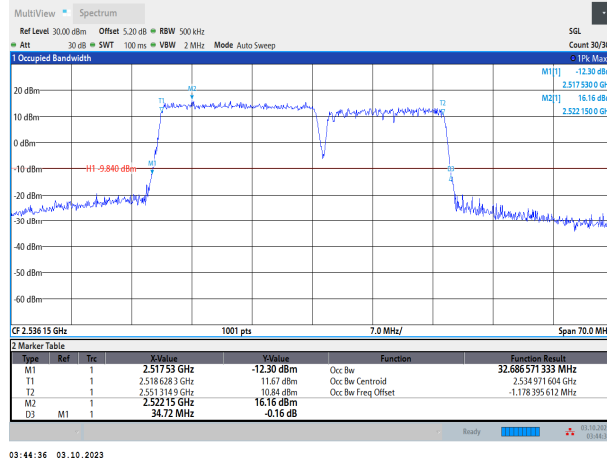


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7-7-20MHz-15MHz-64QAM-64QAM-21026-21197-100RB#0-75RB#0



7-7-20MHz-15MHz-256QAM-256QAM-21026-21197-100RB#0-75RB#0

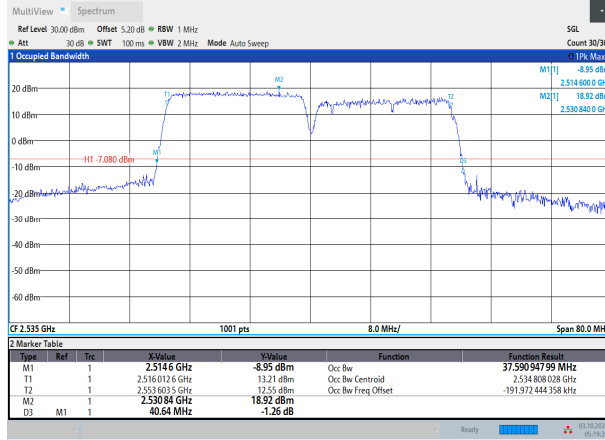


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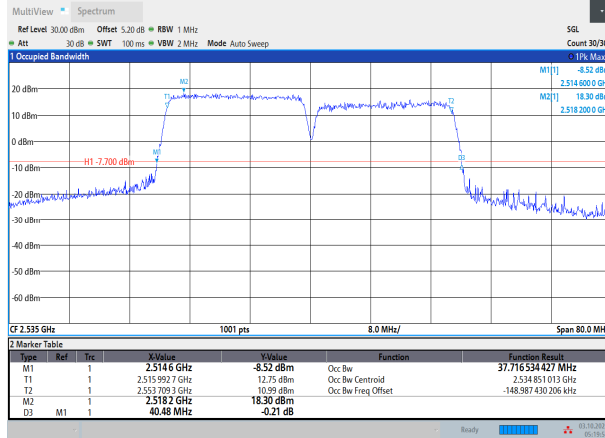
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7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-100RB#0-100RB#0



05:19:20 03.10.2023

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



05:19:52 03.10.2023

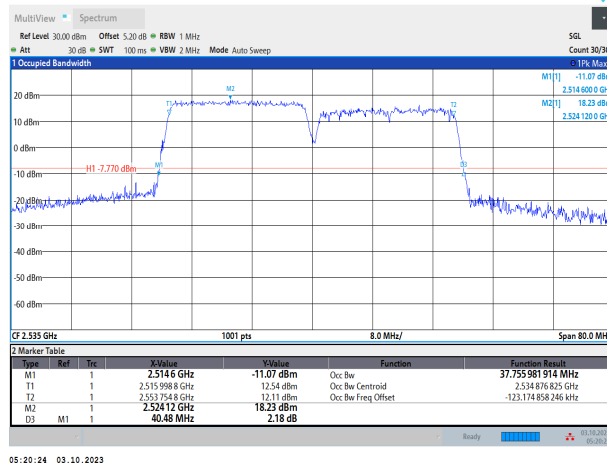


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7-7-20MHz-20MHz-64QAM-64QAM-21001-21199-100RB#0-100RB#0



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



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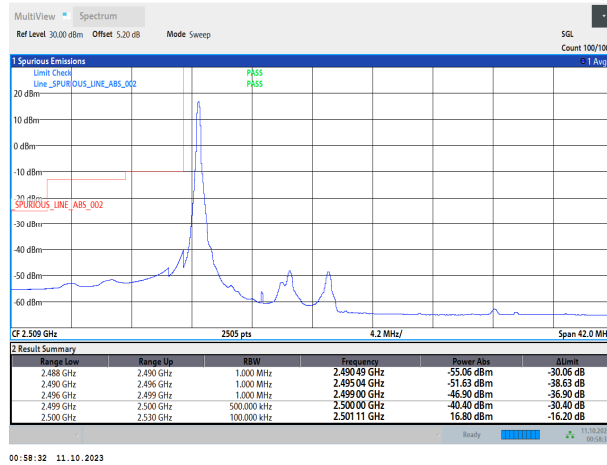
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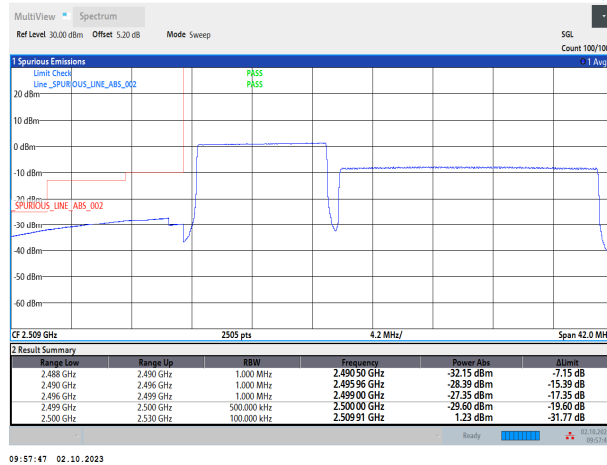
Band Edge

Test Graphs

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



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

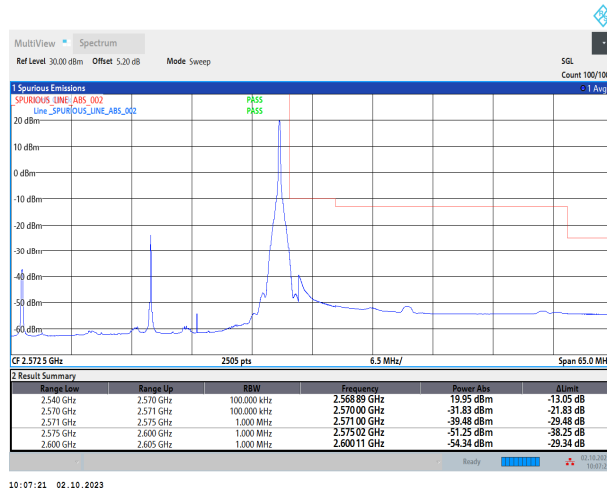


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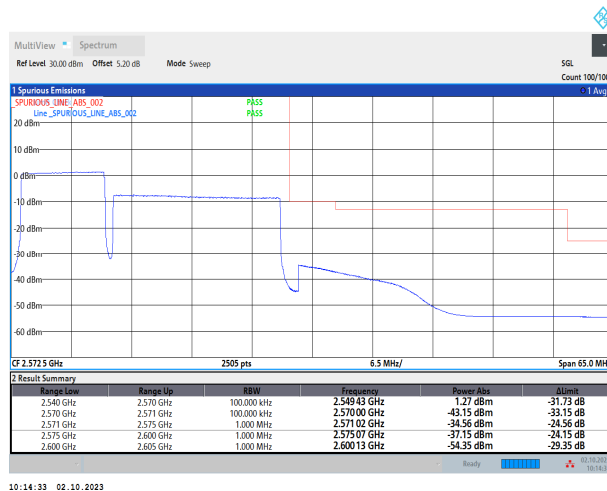
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7-7-10MHz-20MHz-QPSK-QPSK-21206-21350-0RB#0-1RB#99



10:07:21 02.10.2023

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10:14:33 02.10.2023

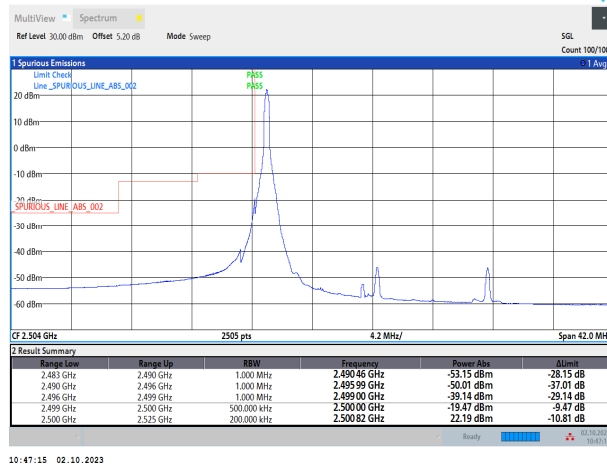


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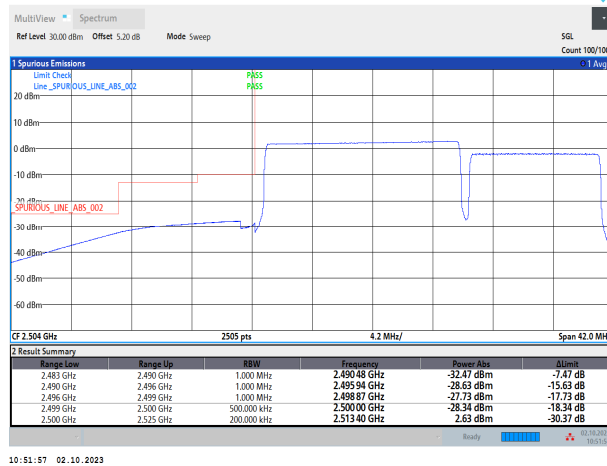
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7-7-15MHz-10MHz-QPSK-QPSK-20825-20945-75RB#0-50RB#0

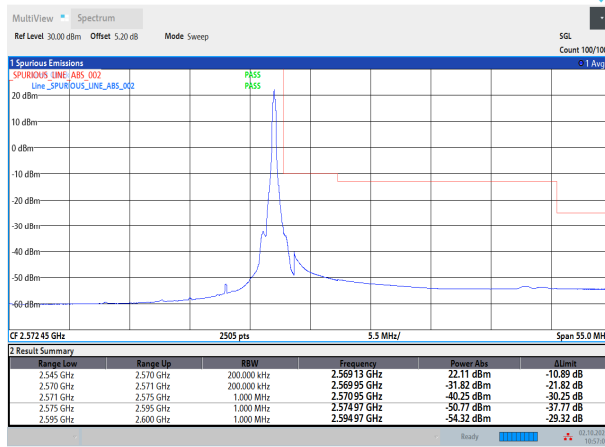


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7-7-15MHz-10MHz-QPSK-QPSK-21277-21397-0RB#0-1RB#49



10:57:05 02.10.2023

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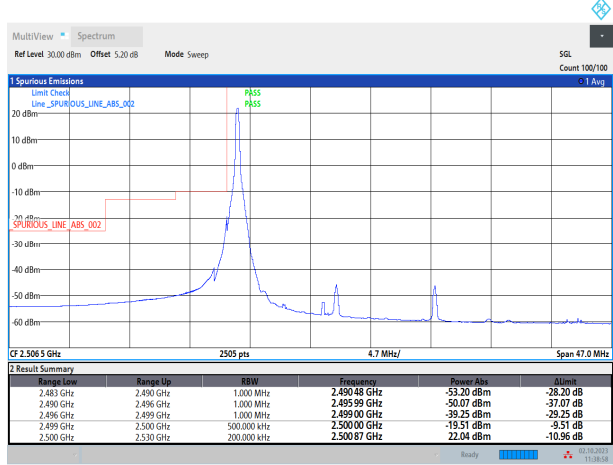


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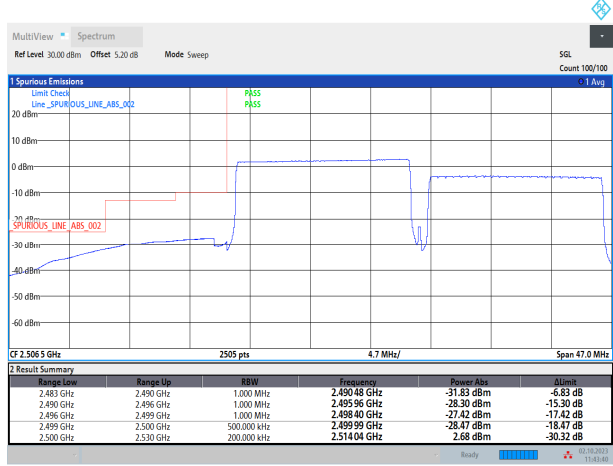
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7-7-15MHz-15MHz-QPSK-QPSK-20825-20975-1RB#0-0RB#0



7-7-15MHz-15MHz-QPSK-QPSK-20825-20975-75RB#0-75RB#0

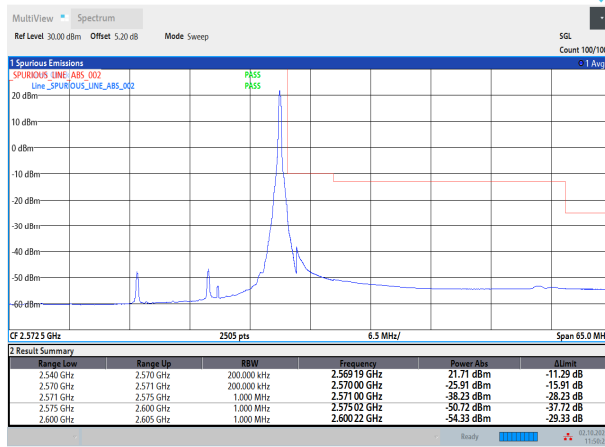


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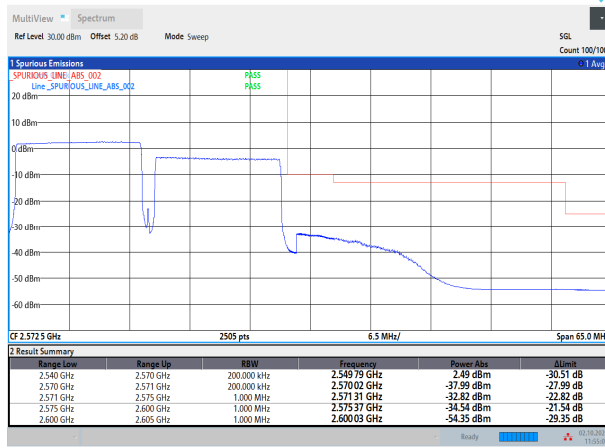
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7-7-15MHz-15MHz-QPSK-QPSK-21225-21375-0RB#0-1RB#74



11:50:26 02.10.2023

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11:55:08 02.10.2023

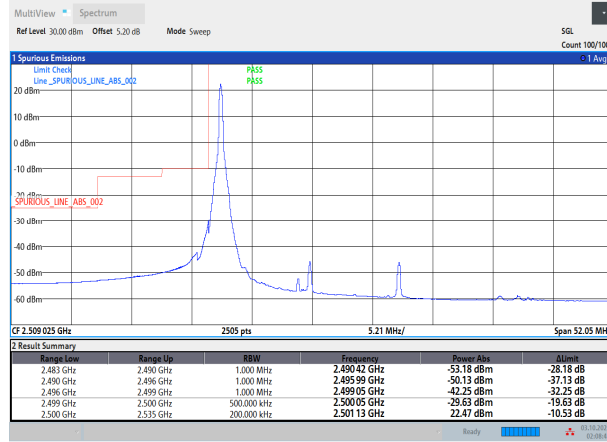


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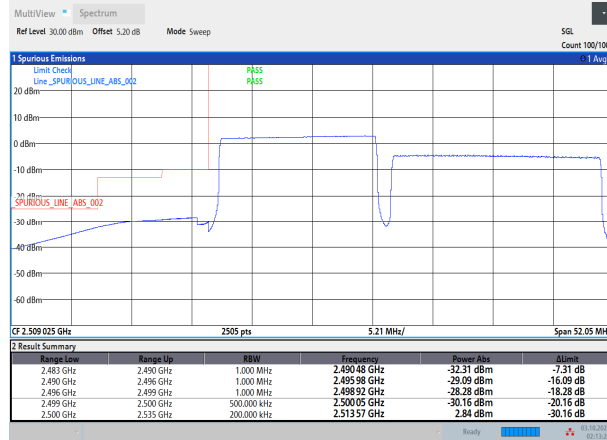
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7-7-15MHz-20MHz-QPSK-QPSK-20828-20999-1RB#0-0RB#0



02:08:43 03.10.2023

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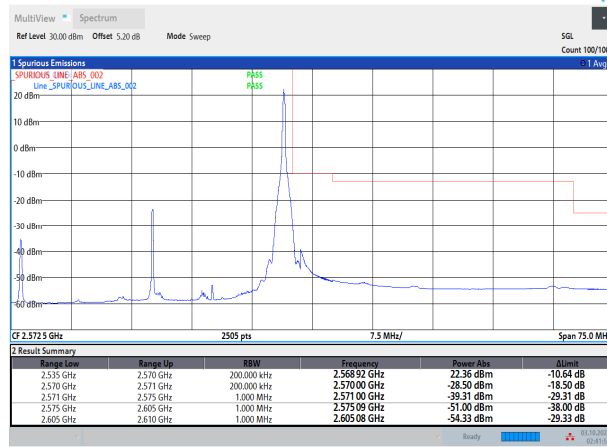


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7-7-15MHz-20MHz-QPSK-QPSK-21179-21350-0RB#0-1RB#99



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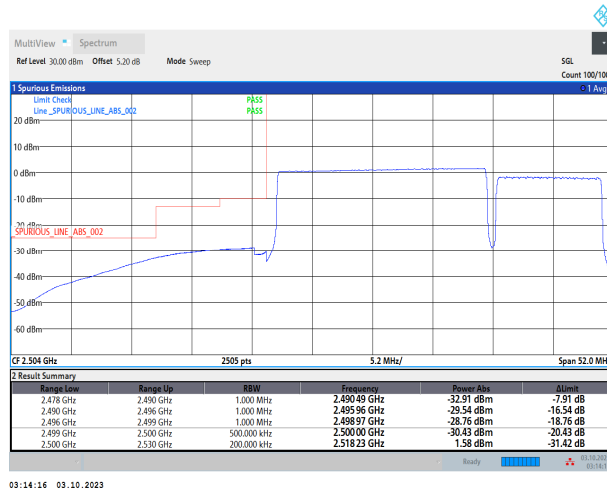


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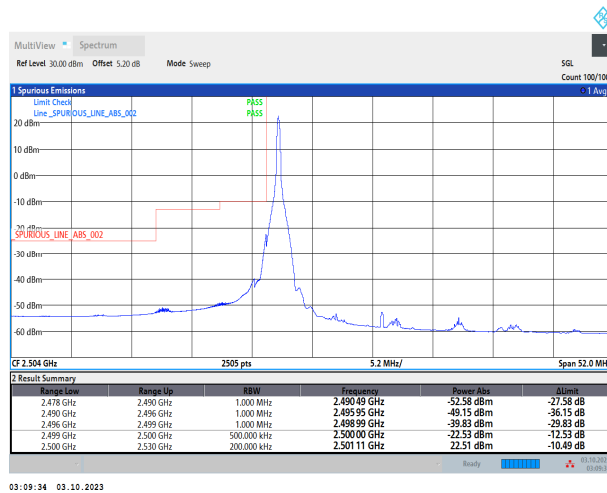
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7-7-20MHz-10MHz-QPSK-QPSK-20850-20994-100RB#0-50RB#0



7-7-20MHz-10MHz-QPSK-QPSK-20850-20994-1RB#0-0RB#0

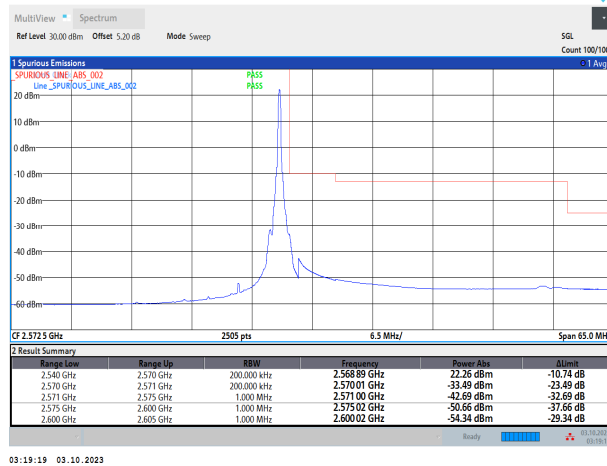


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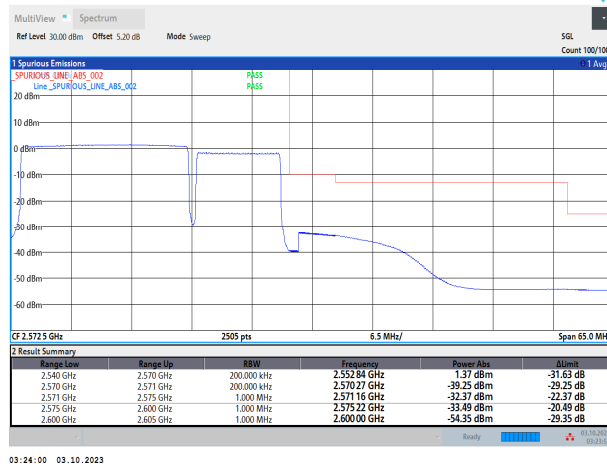
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7-7-20MHz-10MHz-QPSK-QPSK-21251-21395-0RB#0-1RB#49



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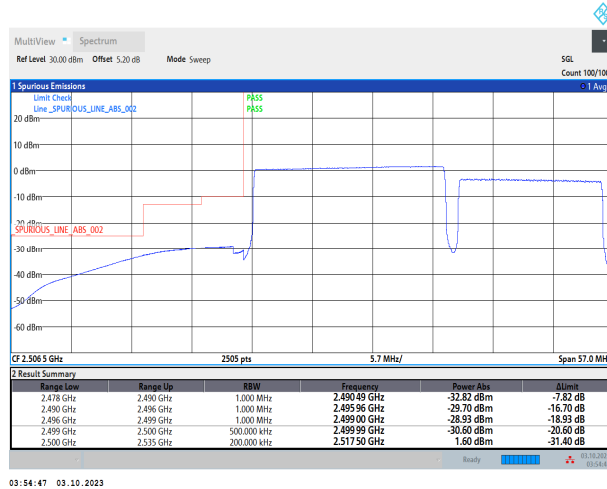


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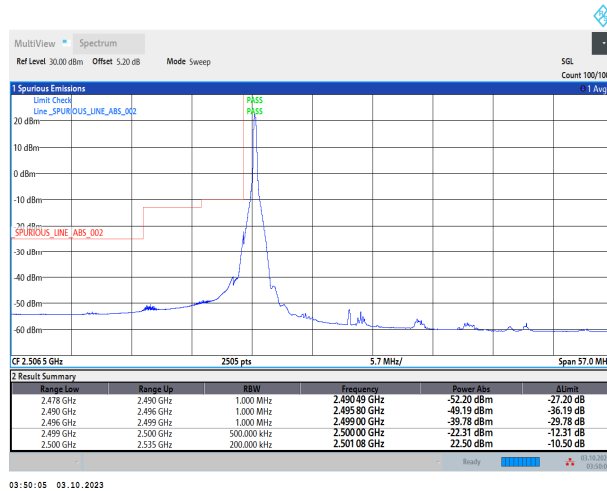
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7-7-20MHz-15MHz-QPSK-QPSK-20850-21021-100RB#0-75RB#0



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

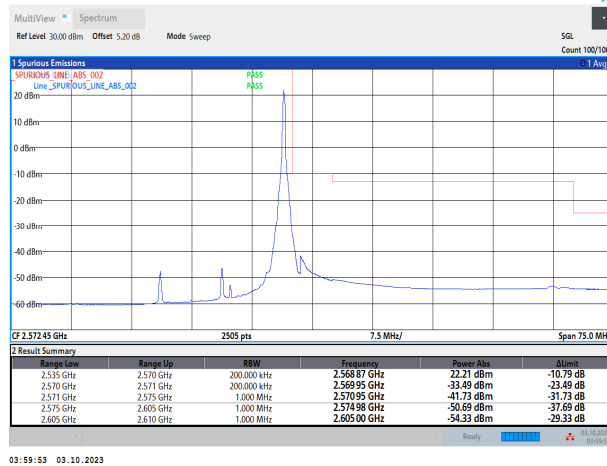


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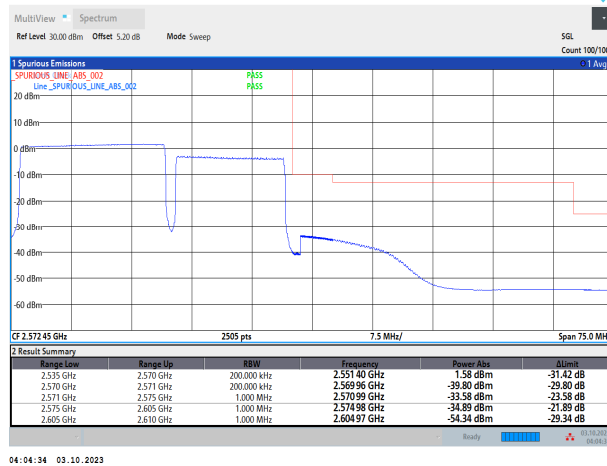
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7-7-20MHz-15MHz-QPSK-QPSK-21201-21372-100RB#0-75RB#0

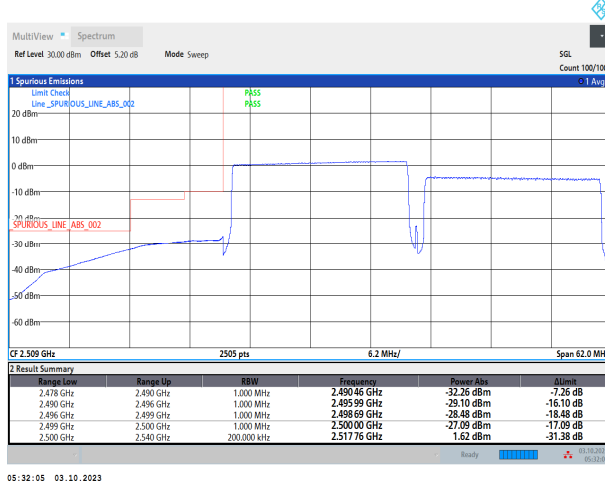


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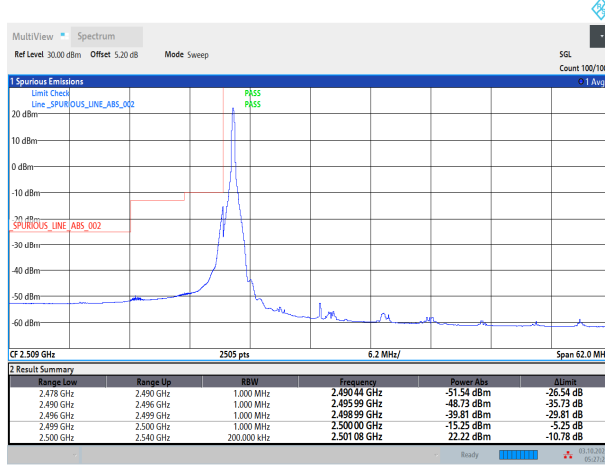
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7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-100RB#0-100RB#0



05:32:05 03.10.2023

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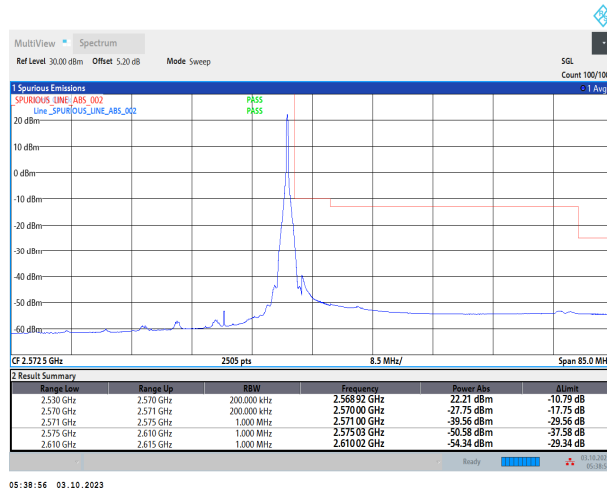


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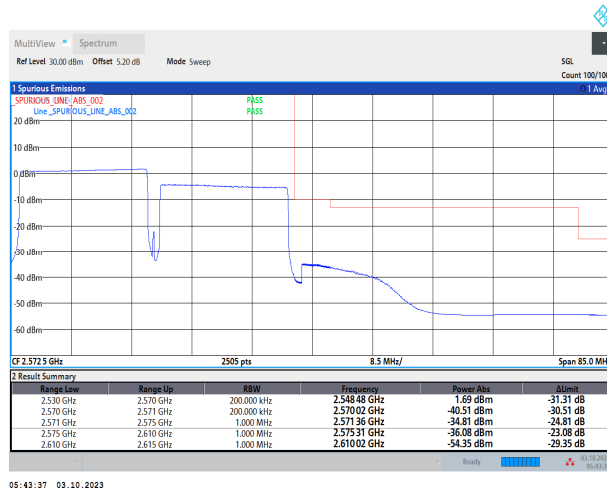
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7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-100RB#0-100RB#0



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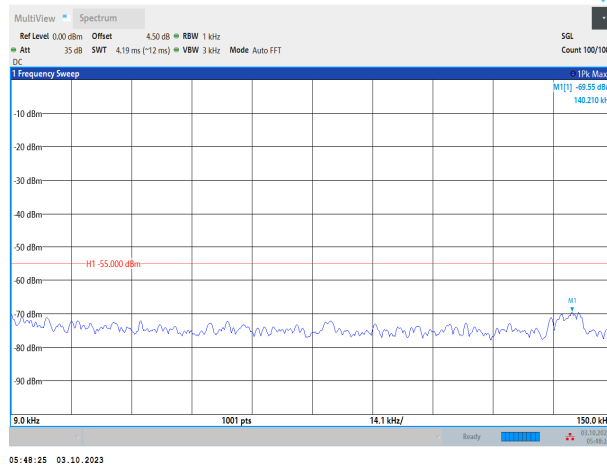
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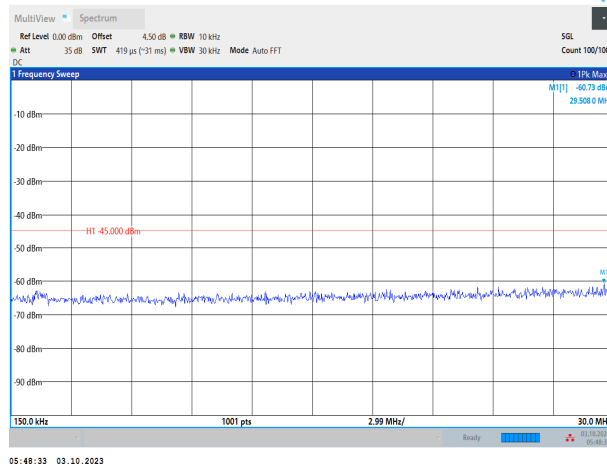
Conducted Spurious Emission

Test Graphs

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



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

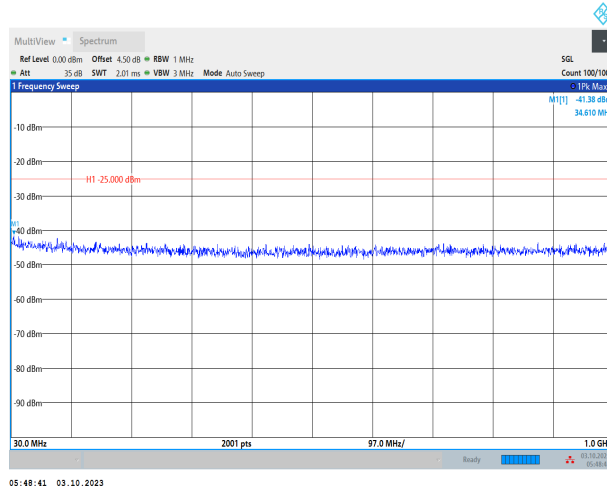


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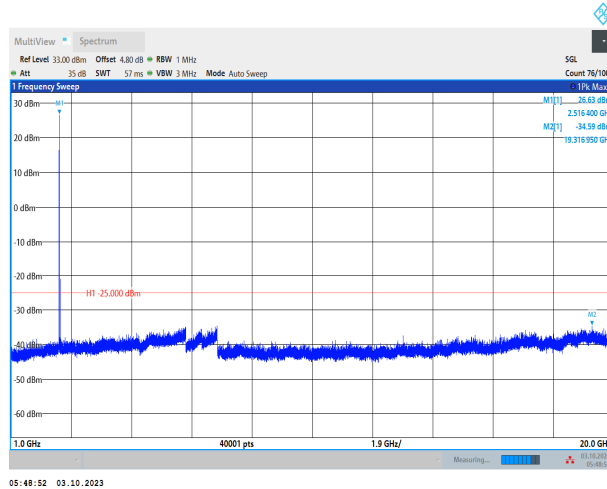
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7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-1RB#0-0RB#0-30~1000MHz



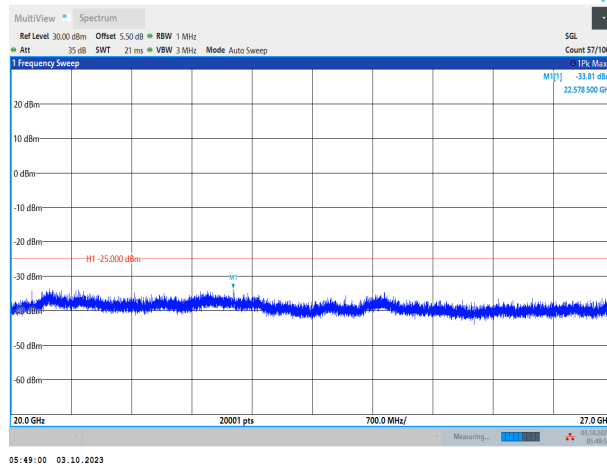
7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-1RB#0-0RB#0-1000~20000MHz



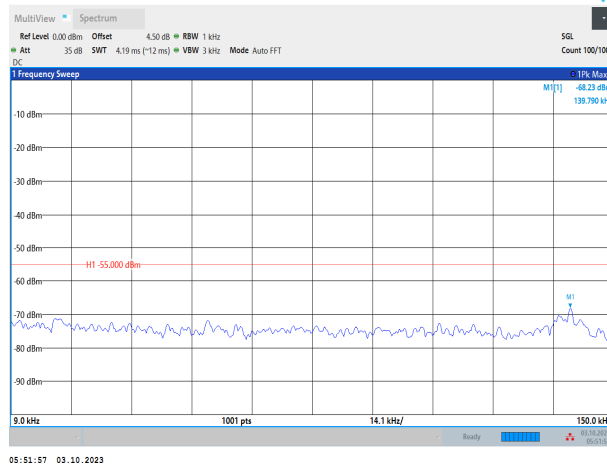
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7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-1RB#0-0RB#0-20000~27000MHz



7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-1RB#0-0RB#0-0.009~0.15MHz

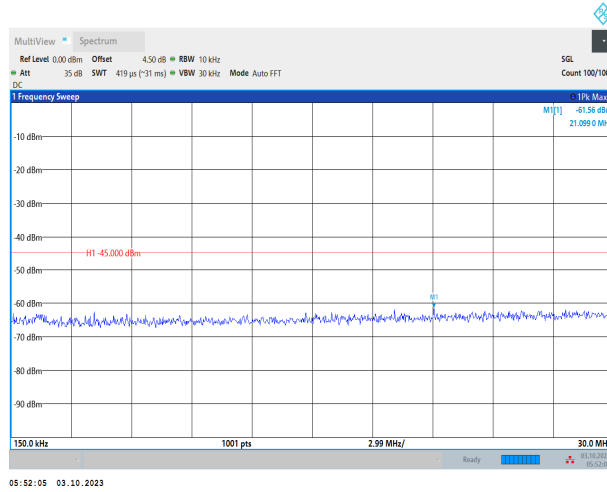


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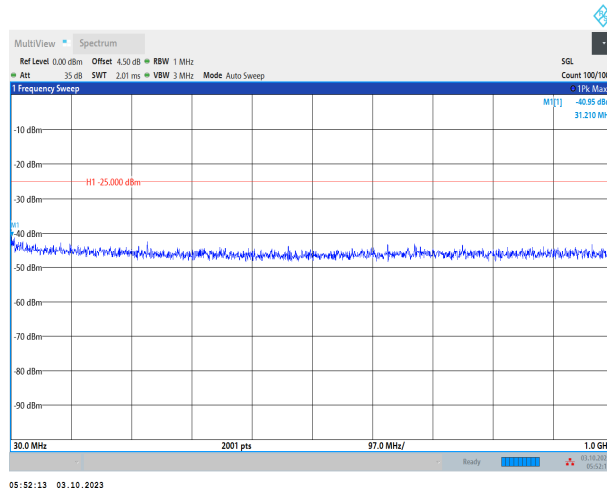
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7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-1RB#0-0RB#0-0.15~30MHz



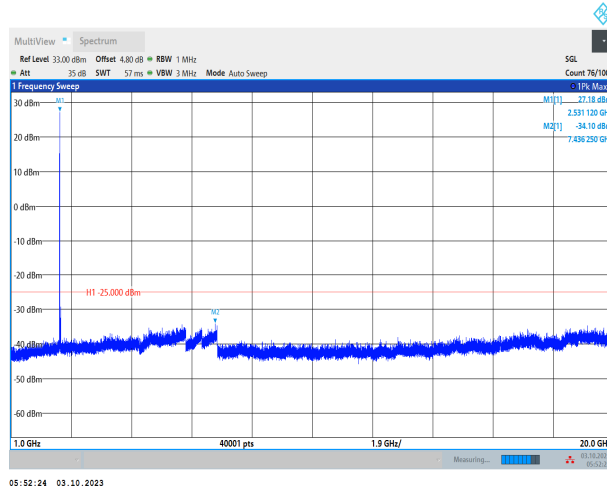
7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-1RB#0-0RB#0-30~1000MHz



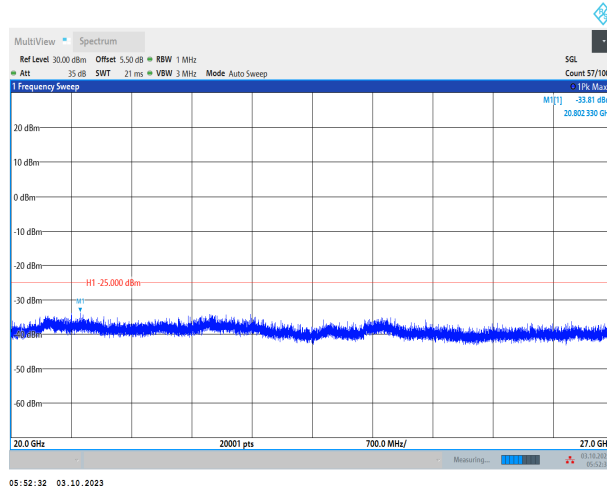
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7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-1RB#0-0RB#0-1000~20000MHz



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



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Field Strength of Spurious Radiation

Test Band = LTE UL CA 7C_ 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	5002.18	43.27	-48.01	31.51	-68.49	-25.00	43.49	Horizontal
2	7503.27	42.83	-46.11	36.80	-61.75	-25.00	36.75	Horizontal
3	10004.36	39.13	-41.71	38.50	-59.33	-25.00	34.33	Horizontal
4	12505.45	36.92	-39.84	38.90	-59.28	-25.00	34.28	Horizontal
5	15006.54	37.04	-38.03	40.09	-56.17	-25.00	31.17	Horizontal
6	17507.63	36.01	-36.82	42.15	-53.92	-25.00	28.92	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5002.18	43.78	-48.01	31.51	-67.98	-25.00	42.98	Vertical
2	7503.27	42.78	-46.11	36.80	-61.80	-25.00	36.80	Vertical
3	10004.36	39.33	-41.71	38.50	-59.13	-25.00	34.13	Vertical
4	12505.45	37.19	-39.84	38.90	-59.01	-25.00	34.01	Vertical
5	15006.54	36.50	-38.03	40.09	-56.71	-25.00	31.71	Vertical
6	17507.63	35.57	-36.82	42.15	-54.36	-25.00	29.36	Vertical



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Test Band = LTE UL CA 7C_ 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	5052.18	44.74	-47.91	31.63	-66.80	-25.00	41.80	Horizontal
2	7578.27	42.01	-44.91	36.71	-61.46	-25.00	36.46	Horizontal
3	10104.36	39.38	-41.88	38.59	-59.17	-25.00	34.17	Horizontal
4	12630.45	36.90	-39.08	38.82	-58.61	-25.00	33.61	Horizontal
5	15156.54	36.45	-37.42	39.80	-56.43	-25.00	31.43	Horizontal
6	17682.63	36.44	-37.64	43.27	-53.19	-25.00	28.19	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5052.18	43.97	-47.91	31.63	-67.57	-25.00	42.57	Vertical
2	7578.27	42.04	-44.91	36.71	-61.43	-25.00	36.43	Vertical
3	10104.36	38.95	-41.88	38.59	-59.60	-25.00	34.60	Vertical
4	12630.45	36.91	-39.08	38.82	-58.60	-25.00	33.60	Vertical
5	15156.54	36.71	-37.42	39.80	-56.17	-25.00	31.17	Vertical
6	17682.63	35.90	-37.64	43.27	-53.73	-25.00	28.73	Vertical



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Test Band = LTE UL CA 7C_ 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	5102.18	43.42	-47.82	31.75	-67.92	-25.00	42.92	Horizontal
2	7653.27	42.96	-44.91	36.62	-60.60	-25.00	35.60	Horizontal
3	10204.36	38.62	-42.10	38.68	-60.05	-25.00	35.05	Horizontal
4	12755.45	38.15	-39.29	38.75	-57.65	-25.00	32.65	Horizontal
5	15306.54	35.44	-37.87	39.52	-58.17	-25.00	33.17	Horizontal
6	17857.63	35.47	-36.85	44.39	-52.25	-25.00	27.25	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5102.18	43.81	-47.82	31.75	-67.53	-25.00	42.53	Vertical
2	7653.27	42.17	-44.91	36.62	-61.39	-25.00	36.39	Vertical
3	10204.36	38.75	-42.10	38.68	-59.92	-25.00	34.92	Vertical
4	12755.45	36.94	-39.29	38.75	-58.86	-25.00	33.86	Vertical
5	15306.54	35.21	-37.87	39.52	-58.40	-25.00	33.40	Vertical
6	17857.63	35.15	-36.85	44.39	-52.57	-25.00	27.57	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

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	-0.70	-0.000277	PASS
7-7	20MHz -20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	VL	NT	1.40	0.000554	PASS
7-7	20MHz -20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	VN	NT	1.30	0.000515	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	2.90	0.001148	PASS
7-7	20MHz -20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	-20	1.40	0.000554	PASS
7-7	20MHz -20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	-10	1.30	0.000515	PASS
7-7	20MHz -20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	0	1.00	0.000396	PASS
7-7	20MHz -20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	10	-0.20	-0.000079	PASS
7-7	20MHz -20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	20	1.60	0.000634	PASS
7-7	20MHz -20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	30	0.80	0.000317	PASS
7-7	20MHz -20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	40	-0.30	-0.000119	PASS
7-7	20MHz -20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	50	-0.80	-0.000259	PASS

---End of Attachment---



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