



Report No.: SEWA2208000034RG01

Rev.: 01

Page: 1 of 75

Appendix B.16

LTE CA_7C



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Effective (Isotropic) Radiated Power Output Data

Test Result

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	23.42	26.42	33	PASS
7-7	10MHz-20MHz	QPSK-QPSK	20805-20949	50RB#0-100RB#0	22.14	25.14	33	PASS
7-7	10MHz-20MHz	QPSK-QPSK	21006-21150	1RB#0-0RB#0	23.32	26.32	33	PASS
7-7	10MHz-20MHz	QPSK-QPSK	21006-21150	50RB#0-100RB#0	22.15	25.15	33	PASS
7-7	10MHz-20MHz	QPSK-QPSK	21206-21350	1RB#0-0RB#0	23.40	26.4	33	PASS
7-7	10MHz-20MHz	QPSK-QPSK	21206-21350	50RB#0-100RB#0	22.14	25.14	33	PASS
7-7	10MHz-20MHz	16QAM-16QAM	20805-20949	1RB#0-0RB#0	22.74	25.74	33	PASS
7-7	10MHz-20MHz	16QAM-16QAM	20805-20949	50RB#0-100RB#0	21.16	24.16	33	PASS
7-7	10MHz-20MHz	16QAM-16QAM	21006-21150	1RB#0-0RB#0	22.84	25.84	33	PASS
7-7	10MHz-20MHz	16QAM-16QAM	21006-21150	50RB#0-100RB#0	21.20	24.2	33	PASS
7-7	10MHz-20MHz	16QAM-16QAM	21206-21350	1RB#0-0RB#0	22.88	25.88	33	PASS
7-7	10MHz-20MHz	16QAM-16QAM	21206-21350	50RB#0-100RB#0	21.17	24.17	33	PASS
7-7	10MHz-20MHz	64QAM-64QAM	20805-20949	1RB#0-0RB#0	21.58	24.58	33	PASS
7-7	10MHz-20MHz	64QAM-64QAM	20805-20949	50RB#0-100RB#0	21.17	24.17	33	PASS
7-7	10MHz-20MHz	64QAM-64QAM	21006-21150	1RB#0-0RB#0	21.68	24.68	33	PASS
7-7	10MHz-20MHz	64QAM-64QAM	21006-21150	50RB#0-100RB#0	21.20	24.2	33	PASS
7-7	10MHz-20MHz	64QAM-64QAM	21206-21350	1RB#0-0RB#0	21.76	24.76	33	PASS
7-7	10MHz-20MHz	64QAM-64QAM	21206-21350	50RB#0-100RB#0	21.17	24.17	33	PASS
7-7	15MHz-10MHz	QPSK-QPSK	20825-20945	1RB#0-0RB#0	23.23	26.23	33	PASS
7-7	15MHz-10MHz	QPSK-QPSK	20825-20945	75RB#0-50RB#0	24.00	27	33	PASS
7-7	15MHz-10MHz	QPSK-QPSK	21051-21171	1RB#0-0RB#0	23.56	26.56	33	PASS
7-7	15MHz-10MHz	QPSK-QPSK	21051-21171	75RB#0-50RB#0	23.61	26.61	33	PASS
7-7	15MHz-10MHz	QPSK-QPSK	21277-21397	1RB#0-0RB#0	23.18	26.18	33	PASS
7-7	15MHz-10MHz	QPSK-QPSK	21277-21397	75RB#0-50RB#0	21.77	24.77	33	PASS
7-7	15MHz-10MHz	16QAM-16QAM	20825-20945	1RB#0-0RB#0	22.33	25.33	33	PASS
7-7	15MHz-10MHz	16QAM-16QAM	20825-20945	75RB#0-50RB#0	23.55	26.55	33	PASS
7-7	15MHz-10MHz	16QAM-16QAM	21051-21171	1RB#0-0RB#0	22.72	25.72	33	PASS
7-7	15MHz-10MHz	16QAM-16QAM	21051-21171	75RB#0-50RB#0	22.69	25.69	33	PASS



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Report No.: SEWA2208000034RG01

Rev.: 01

Page: 3 of 75

7-7	15MHz-10MHz	16QAM-16QAM	21277-21397	1RB#0-0RB#0	22.62	25.62	33	PASS
7-7	15MHz-10MHz	16QAM-16QAM	21277-21397	75RB#0-50RB#0	20.79	23.79	33	PASS
7-7	15MHz-10MHz	64QAM-64QAM	20825-20945	1RB#0-0RB#0	21.65	24.65	33	PASS
7-7	15MHz-10MHz	64QAM-64QAM	20825-20945	75RB#0-50RB#0	23.46	26.46	33	PASS
7-7	15MHz-10MHz	64QAM-64QAM	21051-21171	1RB#0-0RB#0	21.51	24.51	33	PASS
7-7	15MHz-10MHz	64QAM-64QAM	21051-21171	75RB#0-50RB#0	22.74	25.74	33	PASS
7-7	15MHz-10MHz	64QAM-64QAM	21277-21397	1RB#0-0RB#0	21.54	24.54	33	PASS
7-7	15MHz-10MHz	64QAM-64QAM	21277-21397	75RB#0-50RB#0	20.77	23.77	33	PASS
7-7	15MHz-15MHz	QPSK-QPSK	20825-20975	1RB#0-0RB#0	23.27	26.27	33	PASS
7-7	15MHz-15MHz	QPSK-QPSK	20825-20975	75RB#0-75RB#0	22.13	25.13	33	PASS
7-7	15MHz-15MHz	QPSK-QPSK	21025-21175	1RB#0-0RB#0	23.30	26.3	33	PASS
7-7	15MHz-15MHz	QPSK-QPSK	21025-21175	75RB#0-75RB#0	22.13	25.13	33	PASS
7-7	15MHz-15MHz	QPSK-QPSK	21225-21375	1RB#0-0RB#0	23.32	26.32	33	PASS
7-7	15MHz-15MHz	QPSK-QPSK	21225-21375	75RB#0-75RB#0	22.08	25.08	33	PASS
7-7	15MHz-15MHz	16QAM-16QAM	20825-20975	1RB#0-0RB#0	22.63	25.63	33	PASS
7-7	15MHz-15MHz	16QAM-16QAM	20825-20975	75RB#0-75RB#0	21.14	24.14	33	PASS
7-7	15MHz-15MHz	16QAM-16QAM	21025-21175	1RB#0-0RB#0	22.82	25.82	33	PASS
7-7	15MHz-15MHz	16QAM-16QAM	21025-21175	75RB#0-75RB#0	21.10	24.1	33	PASS
7-7	15MHz-15MHz	16QAM-16QAM	21225-21375	1RB#0-0RB#0	22.73	25.73	33	PASS
7-7	15MHz-15MHz	16QAM-16QAM	21225-21375	75RB#0-75RB#0	21.12	24.12	33	PASS
7-7	15MHz-15MHz	64QAM-64QAM	20825-20975	1RB#0-0RB#0	21.48	24.48	33	PASS
7-7	15MHz-15MHz	64QAM-64QAM	20825-20975	75RB#0-75RB#0	21.14	24.14	33	PASS
7-7	15MHz-15MHz	64QAM-64QAM	21025-21175	1RB#0-0RB#0	21.67	24.67	33	PASS
7-7	15MHz-15MHz	64QAM-64QAM	21025-21175	75RB#0-75RB#0	21.12	24.12	33	PASS
7-7	15MHz-15MHz	64QAM-64QAM	21225-21375	1RB#0-0RB#0	21.59	24.59	33	PASS
7-7	15MHz-15MHz	64QAM-64QAM	21225-21375	75RB#0-75RB#0	21.10	24.1	33	PASS
7-7	15MHz-20MHz	QPSK-QPSK	20828-20999	1RB#0-0RB#0	23.38	26.38	33	PASS
7-7	15MHz-20MHz	QPSK-QPSK	20828-20999	75RB#0-100RB#0	22.08	25.08	33	PASS
7-7	15MHz-20MHz	QPSK-QPSK	21003-21174	1RB#0-0RB#0	23.31	26.31	33	PASS
7-7	15MHz-20MHz	QPSK-QPSK	21003-21174	75RB#0-100RB#0	22.11	25.11	33	PASS
7-7	15MHz-20MHz	QPSK-QPSK	21179-21350	1RB#0-0RB#0	23.40	26.4	33	PASS
7-7	15MHz-20MHz	QPSK-QPSK	21179-21350	75RB#0-100RB#0	22.11	25.11	33	PASS



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Report No.: SEWA2208000034RG01

Rev.: 01

Page: 4 of 75

7-7	15MHz-20MHz	16QAM-16QAM	20828-20999	1RB#0-0RB#0	22.83	25.83	33	PASS
7-7	15MHz-20MHz	16QAM-16QAM	20828-20999	75RB#0-100RB#0	21.11	24.11	33	PASS
7-7	15MHz-20MHz	16QAM-16QAM	21003-21174	1RB#0-0RB#0	22.74	25.74	33	PASS
7-7	15MHz-20MHz	16QAM-16QAM	21003-21174	75RB#0-100RB#0	21.14	24.14	33	PASS
7-7	15MHz-20MHz	16QAM-16QAM	21179-21350	1RB#0-0RB#0	22.77	25.77	33	PASS
7-7	15MHz-20MHz	16QAM-16QAM	21179-21350	75RB#0-100RB#0	21.12	24.12	33	PASS
7-7	15MHz-20MHz	64QAM-64QAM	20828-20999	1RB#0-0RB#0	21.54	24.54	33	PASS
7-7	15MHz-20MHz	64QAM-64QAM	20828-20999	75RB#0-100RB#0	21.10	24.1	33	PASS
7-7	15MHz-20MHz	64QAM-64QAM	21003-21174	1RB#0-0RB#0	21.57	24.57	33	PASS
7-7	15MHz-20MHz	64QAM-64QAM	21003-21174	75RB#0-100RB#0	21.12	24.12	33	PASS
7-7	15MHz-20MHz	64QAM-64QAM	21179-21350	1RB#0-0RB#0	21.64	24.64	33	PASS
7-7	15MHz-20MHz	64QAM-64QAM	21179-21350	75RB#0-100RB#0	21.11	24.11	33	PASS
7-7	20MHz-10MHz	QPSK-QPSK	20850-20994	100RB#0-50RB#0	24.71	27.71	33	PASS
7-7	20MHz-10MHz	QPSK-QPSK	20850-20994	1RB#0-0RB#0	23.45	26.45	33	PASS
7-7	20MHz-10MHz	QPSK-QPSK	21051-21195	100RB#0-50RB#0	22.14	25.14	33	PASS
7-7	20MHz-10MHz	QPSK-QPSK	21051-21195	1RB#0-0RB#0	21.48	24.48	33	PASS
7-7	20MHz-10MHz	QPSK-QPSK	21251-21395	100RB#0-50RB#0	22.23	25.23	33	PASS
7-7	20MHz-10MHz	QPSK-QPSK	21251-21395	1RB#0-0RB#0	23.43	26.43	33	PASS
7-7	20MHz-10MHz	16QAM-16QAM	20850-20994	100RB#0-50RB#0	23.78	26.78	33	PASS
7-7	20MHz-10MHz	16QAM-16QAM	20850-20994	1RB#0-0RB#0	22.93	25.93	33	PASS
7-7	20MHz-10MHz	16QAM-16QAM	21051-21195	100RB#0-50RB#0	21.16	24.16	33	PASS
7-7	20MHz-10MHz	16QAM-16QAM	21051-21195	1RB#0-0RB#0	22.78	25.78	33	PASS
7-7	20MHz-10MHz	16QAM-16QAM	21251-21395	100RB#0-50RB#0	21.87	24.87	33	PASS
7-7	20MHz-10MHz	16QAM-16QAM	21251-21395	1RB#0-0RB#0	22.96	25.96	33	PASS
7-7	20MHz-10MHz	64QAM-64QAM	20850-20994	100RB#0-50RB#0	23.69	26.69	33	PASS
7-7	20MHz-10MHz	64QAM-64QAM	20850-20994	1RB#0-0RB#0	21.85	24.85	33	PASS
7-7	20MHz-10MHz	64QAM-64QAM	21051-21195	100RB#0-50RB#0	21.14	24.14	33	PASS
7-7	20MHz-10MHz	64QAM-64QAM	21051-21195	1RB#0-0RB#0	21.72	24.72	33	PASS
7-7	20MHz-10MHz	64QAM-64QAM	21251-21395	100RB#0-50RB#0	21.83	24.83	33	PASS
7-7	20MHz-10MHz	64QAM-64QAM	21251-21395	1RB#0-0RB#0	21.64	24.64	33	PASS
7-7	20MHz-15MHz	QPSK-QPSK	20850-21021	100RB#0-75RB#0	22.13	25.13	33	PASS
7-7	20MHz-15MHz	QPSK-QPSK	20850-21021	1RB#0-0RB#0	23.38	26.38	33	PASS



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Report No.: SEWA2208000034RG01

Rev.: 01

Page: 5 of 75

7-7	20MHz-15MHz	QPSK-QPSK	21026-21197	100RB#0-75RB#0	22.11	25.11	33	PASS
7-7	20MHz-15MHz	QPSK-QPSK	21026-21197	1RB#0-0RB#0	23.31	26.31	33	PASS
7-7	20MHz-15MHz	QPSK-QPSK	21201-21372	100RB#0-75RB#0	22.11	25.11	33	PASS
7-7	20MHz-15MHz	QPSK-QPSK	21201-21372	1RB#0-0RB#0	23.38	26.38	33	PASS
7-7	20MHz-15MHz	16QAM-16QAM	20850-21021	100RB#0-75RB#0	21.17	24.17	33	PASS
7-7	20MHz-15MHz	16QAM-16QAM	20850-21021	1RB#0-0RB#0	22.70	25.7	33	PASS
7-7	20MHz-15MHz	16QAM-16QAM	21026-21197	100RB#0-75RB#0	21.14	24.14	33	PASS
7-7	20MHz-15MHz	16QAM-16QAM	21026-21197	1RB#0-0RB#0	22.71	25.71	33	PASS
7-7	20MHz-15MHz	16QAM-16QAM	21201-21372	100RB#0-75RB#0	21.14	24.14	33	PASS
7-7	20MHz-15MHz	16QAM-16QAM	21201-21372	1RB#0-0RB#0	22.83	25.83	33	PASS
7-7	20MHz-15MHz	64QAM-64QAM	20850-21021	100RB#0-75RB#0	21.16	24.16	33	PASS
7-7	20MHz-15MHz	64QAM-64QAM	20850-21021	1RB#0-0RB#0	21.56	24.56	33	PASS
7-7	20MHz-15MHz	64QAM-64QAM	21026-21197	100RB#0-75RB#0	21.15	24.15	33	PASS
7-7	20MHz-15MHz	64QAM-64QAM	21026-21197	1RB#0-0RB#0	21.69	24.69	33	PASS
7-7	20MHz-15MHz	64QAM-64QAM	21201-21372	100RB#0-75RB#0	21.14	24.14	33	PASS
7-7	20MHz-15MHz	64QAM-64QAM	21201-21372	1RB#0-0RB#0	21.73	24.73	33	PASS
7-7	20MHz-20MHz	QPSK-QPSK	20850-21048	100RB#0-100RB#0	22.14	25.14	33	PASS
7-7	20MHz-20MHz	QPSK-QPSK	20850-21048	1RB#0-0RB#0	23.38	26.38	33	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	22.16	25.16	33	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	1RB#0-0RB#0	23.33	26.33	33	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21152-21350	100RB#0-100RB#0	22.04	25.04	33	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21152-21350	1RB#0-0RB#0	23.33	26.33	33	PASS
7-7	20MHz-20MHz	16QAM-16QAM	20850-21048	100RB#0-100RB#0	21.13	24.13	33	PASS
7-7	20MHz-20MHz	16QAM-16QAM	20850-21048	1RB#0-0RB#0	22.90	25.9	33	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21001-21199	100RB#0-100RB#0	21.09	24.09	33	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21001-21199	1RB#0-0RB#0	22.76	25.76	33	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21152-21350	100RB#0-100RB#0	20.99	23.99	33	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21152-21350	1RB#0-0RB#0	22.72	25.72	33	PASS
7-7	20MHz-20MHz	64QAM-64QAM	20850-21048	100RB#0-100RB#0	21.13	24.13	33	PASS
7-7	20MHz-20MHz	64QAM-64QAM	20850-21048	1RB#0-0RB#0	21.65	24.65	33	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21001-21199	100RB#0-100RB#0	21.11	24.11	33	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21001-21199	1RB#0-0RB#0	21.63	24.63	33	PASS



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Report No.: SEWA2208000034RG01

Rev.: 01

Page: 6 of 75

7-7	20MHz-20MHz	64QAM-64QAM	21152-21350	100RB#0-100RB#0	21.00	24	33	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21152-21350	1RB#0-0RB#0	21.69	24.69	33	PASS



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Report No.: SEWA2208000034RG01

Rev.: 01

Page: 7 of 75

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	8.06	13	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	8.02	13	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21152-21350	100RB#0-100RB#0	8.08	13	PASS
7-7	20MHz-20MHz	16QAM-16QAM	20850-21048	100RB#0-100RB#0	8.34	13	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21001-21199	100RB#0-100RB#0	8.40	13	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21152-21350	100RB#0-100RB#0	8.44	13	PASS
7-7	20MHz-20MHz	64QAM-64QAM	20850-21048	100RB#0-100RB#0	8.30	13	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21001-21199	100RB#0-100RB#0	8.32	13	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21152-21350	100RB#0-100RB#0	8.34	13	PASS



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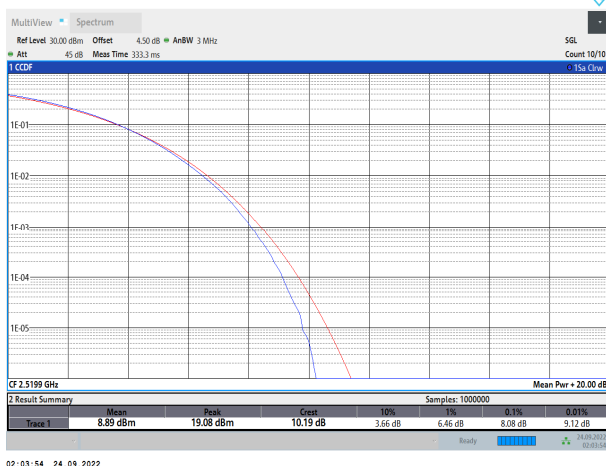
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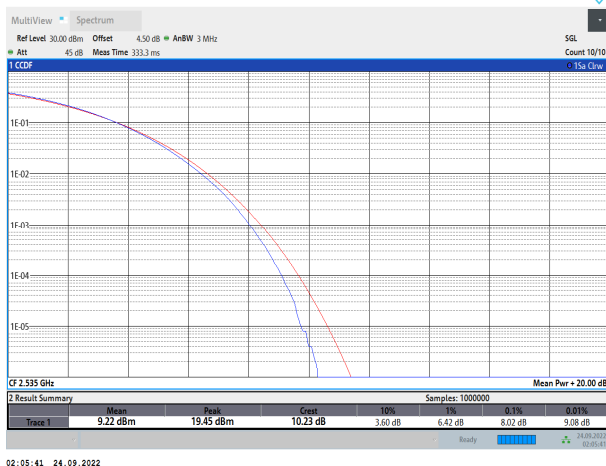
Report No.: SEWA2208000034RG01
 Rev.: 01
 Page: 8 of 75

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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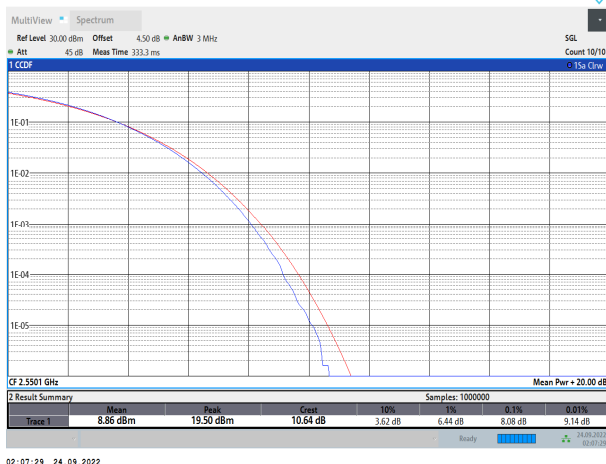
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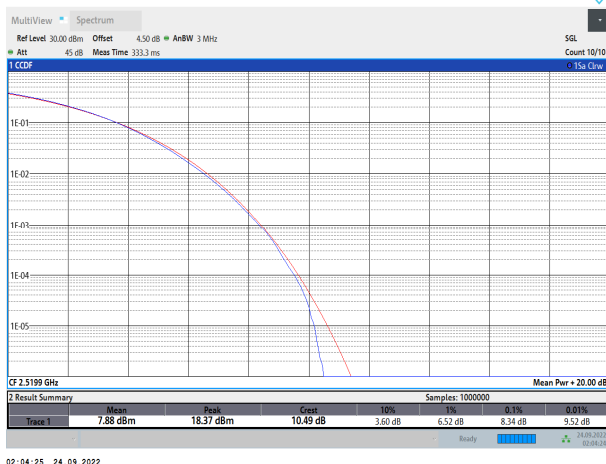
Page: 9 of 75

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



02:07:29 24.09.2022

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



02:04:25 24.09.2022



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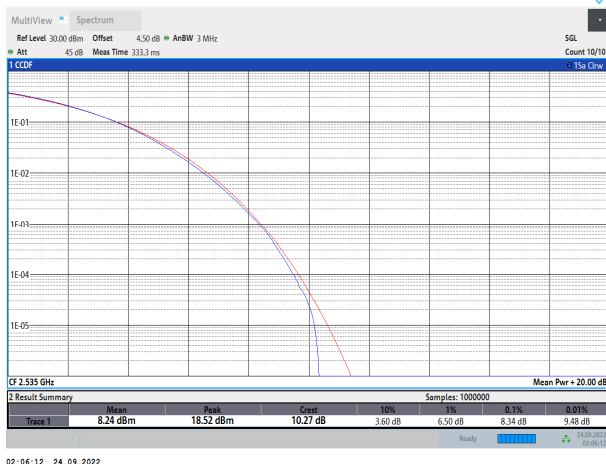
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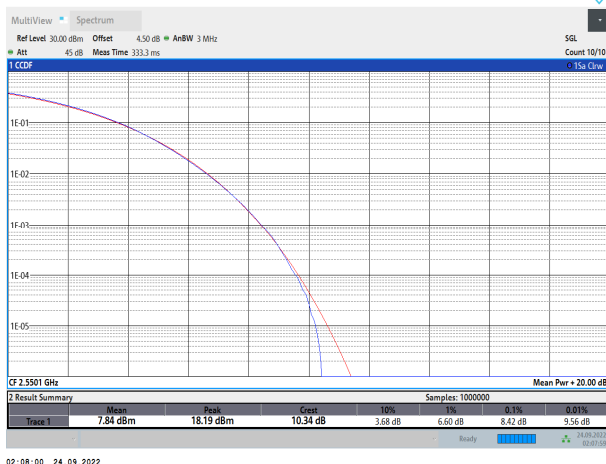
Page: 10 of 75

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



02:06:12 24.09.2022

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



02:08:00 24.09.2022



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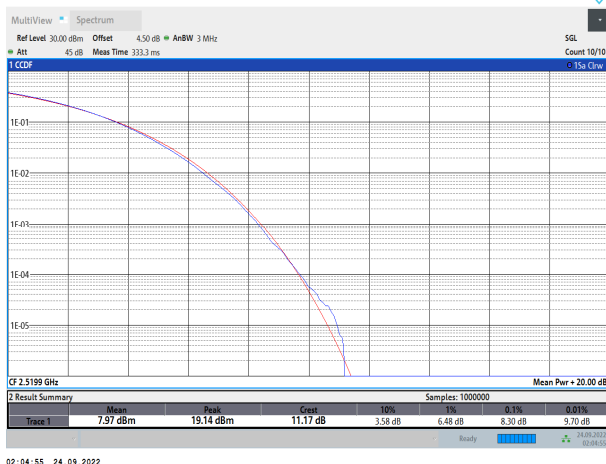
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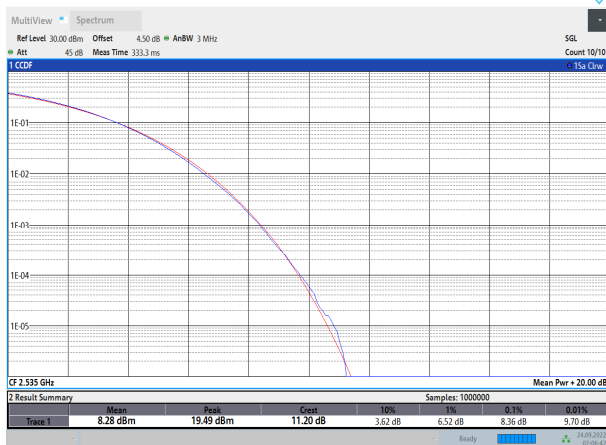
Page: 11 of 75

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



02:04:55 24.09.2022

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



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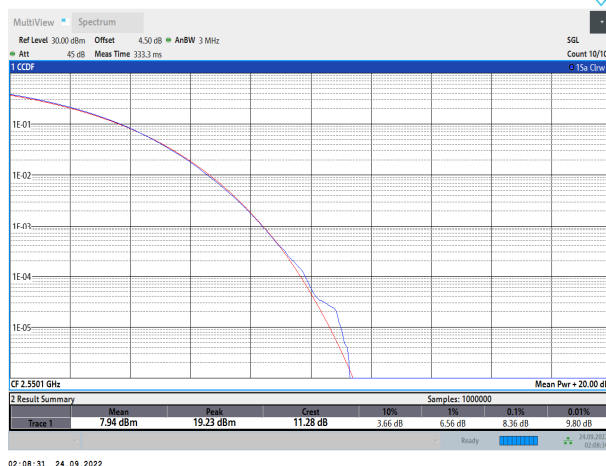
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Report No.: SEWA2208000034RG01

Rev.: 01

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



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Report No.: SEWA2208000034RG01
Rev.: 01
Page: 13 of 75

Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	50RB#0-50RB#0	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21001-21199	50RB#0-50RB#0	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21001-21199	50RB#0-50RB#0	PASS



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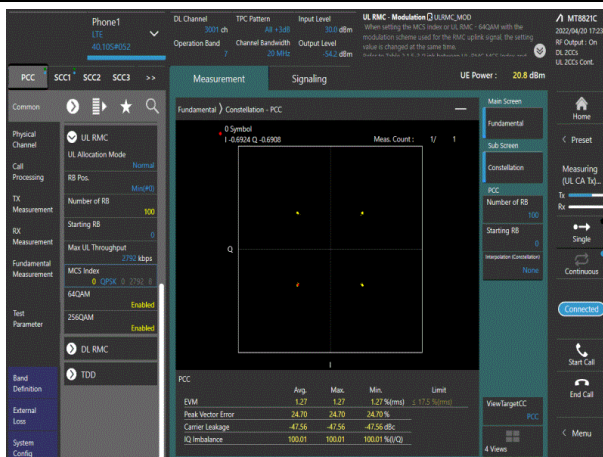
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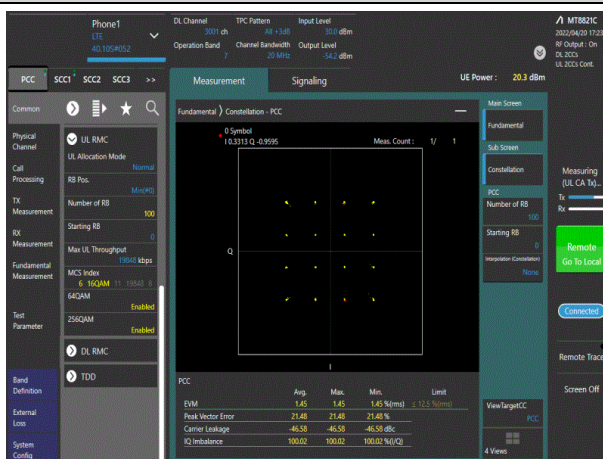
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Test Graphs

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



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



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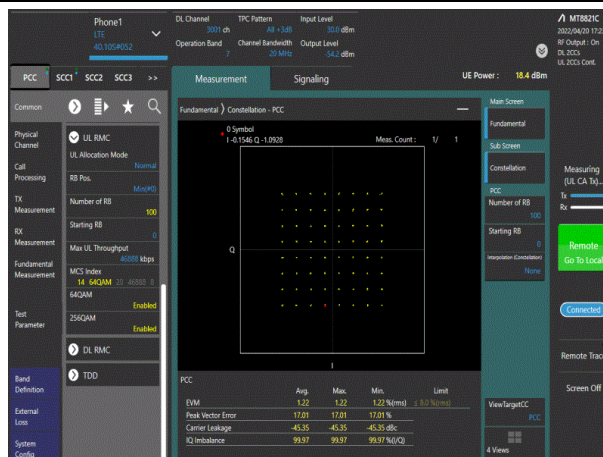
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Rev.: 01

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7-7-20MHz-20MHz-64QAM-64QAM-221001-21199-100RB#0-100RB#0



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Report No.: SEWA2208000034RG01

Rev.: 01

Page: 16 of 75

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	20805-20949	50RB#0-100RB#0	27.647	29.22	PASS
7-7	10MHz-20MHz	QPSK-QPSK	21006-21150	50RB#0-100RB#0	27.627	29.34	PASS
7-7	10MHz-20MHz	QPSK-QPSK	21206-21350	50RB#0-100RB#0	27.564	29.28	PASS
7-7	10MHz-20MHz	16QAM-16QAM	20805-20949	50RB#0-100RB#0	27.722	29.04	PASS
7-7	10MHz-20MHz	16QAM-16QAM	21006-21150	50RB#0-100RB#0	27.683	29.22	PASS
7-7	10MHz-20MHz	16QAM-16QAM	21206-21350	50RB#0-100RB#0	27.638	29.04	PASS
7-7	10MHz-20MHz	64QAM-64QAM	20805-20949	50RB#0-100RB#0	27.65	29.22	PASS
7-7	10MHz-20MHz	64QAM-64QAM	21006-21150	50RB#0-100RB#0	27.6	29.10	PASS
7-7	10MHz-20MHz	64QAM-64QAM	21206-21350	50RB#0-100RB#0	27.577	29.16	PASS
7-7	15MHz-10MHz	QPSK-QPSK	20825-20945	75RB#0-50RB#0	23.131	24.70	PASS
7-7	15MHz-10MHz	QPSK-QPSK	21051-21171	75RB#0-50RB#0	23.103	24.65	PASS
7-7	15MHz-10MHz	QPSK-QPSK	21277-21397	75RB#0-50RB#0	23.081	24.60	PASS
7-7	15MHz-10MHz	16QAM-16QAM	20825-20945	75RB#0-50RB#0	23.137	24.60	PASS
7-7	15MHz-10MHz	16QAM-16QAM	21051-21171	75RB#0-50RB#0	23.066	24.70	PASS
7-7	15MHz-10MHz	16QAM-16QAM	21277-21397	75RB#0-50RB#0	23.107	24.65	PASS
7-7	15MHz-10MHz	64QAM-64QAM	20825-20945	75RB#0-50RB#0	23.097	24.70	PASS
7-7	15MHz-10MHz	64QAM-64QAM	21051-21171	75RB#0-50RB#0	23.022	24.70	PASS
7-7	15MHz-10MHz	64QAM-64QAM	21277-21397	75RB#0-50RB#0	23.028	24.70	PASS
7-7	15MHz-15MHz	QPSK-QPSK	20825-20975	75RB#0-75RB#0	28.273	30.00	PASS
7-7	15MHz-15MHz	QPSK-QPSK	21025-21175	75RB#0-75RB#0	28.172	29.94	PASS
7-7	15MHz-15MHz	QPSK-QPSK	21225-21375	75RB#0-75RB#0	28.226	29.94	PASS
7-7	15MHz-15MHz	16QAM-16QAM	20825-20975	75RB#0-75RB#0	28.35	30.06	PASS
7-7	15MHz-15MHz	16QAM-16QAM	21025-21175	75RB#0-75RB#0	28.214	29.82	PASS
7-7	15MHz-15MHz	16QAM-16QAM	21225-21375	75RB#0-75RB#0	28.297	29.88	PASS
7-7	15MHz-15MHz	64QAM-64QAM	20825-20975	75RB#0-75RB#0	28.254	30.06	PASS
7-7	15MHz-15MHz	64QAM-64QAM	21025-21175	75RB#0-75RB#0	28.196	29.88	PASS
7-7	15MHz-15MHz	64QAM-64QAM	21225-21375	75RB#0-75RB#0	28.182	29.88	PASS
7-7	15MHz-20MHz	QPSK-QPSK	20828-20999	75RB#0-100RB#0	32.583	34.37	PASS
7-7	15MHz-20MHz	QPSK-QPSK	21003-21174	75RB#0-100RB#0	32.449	34.44	PASS
7-7	15MHz-20MHz	QPSK-QPSK	21179-21350	75RB#0-100RB#0	32.504	34.37	PASS
7-7	15MHz-20MHz	16QAM-16QAM	20828-20999	75RB#0-100RB#0	32.625	34.30	PASS



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Report No.: SEWA2208000034RG01

Rev.: 01

Page: 17 of 75

7-7	15MHz-20MHz	16QAM-16QAM	21003-21174	75RB#0-100RB#0	32.546	34.37	PASS
7-7	15MHz-20MHz	16QAM-16QAM	21179-21350	75RB#0-100RB#0	32.558	34.23	PASS
7-7	15MHz-20MHz	64QAM-64QAM	20828-20999	75RB#0-100RB#0	32.523	34.23	PASS
7-7	15MHz-20MHz	64QAM-64QAM	21003-21174	75RB#0-100RB#0	32.393	34.23	PASS
7-7	15MHz-20MHz	64QAM-64QAM	21179-21350	75RB#0-100RB#0	32.451	34.30	PASS
7-7	20MHz-10MHz	QPSK-QPSK	20850-20994	100RB#0-50RB#0	27.748	29.46	PASS
7-7	20MHz-10MHz	QPSK-QPSK	21051-21195	100RB#0-50RB#0	27.734	29.40	PASS
7-7	20MHz-10MHz	QPSK-QPSK	21251-21395	100RB#0-50RB#0	27.765	29.52	PASS
7-7	20MHz-10MHz	16QAM-16QAM	20850-20994	100RB#0-50RB#0	27.736	29.34	PASS
7-7	20MHz-10MHz	16QAM-16QAM	21051-21195	100RB#0-50RB#0	27.714	29.28	PASS
7-7	20MHz-10MHz	16QAM-16QAM	21251-21395	100RB#0-50RB#0	27.713	29.40	PASS
7-7	20MHz-10MHz	64QAM-64QAM	20850-20994	100RB#0-50RB#0	27.669	29.52	PASS
7-7	20MHz-10MHz	64QAM-64QAM	21051-21195	100RB#0-50RB#0	27.633	29.46	PASS
7-7	20MHz-10MHz	64QAM-64QAM	21251-21395	100RB#0-50RB#0	27.687	29.40	PASS
7-7	20MHz-15MHz	QPSK-QPSK	20850-21021	100RB#0-75RB#0	32.647	34.51	PASS
7-7	20MHz-15MHz	QPSK-QPSK	21026-21197	100RB#0-75RB#0	32.554	34.44	PASS
7-7	20MHz-15MHz	QPSK-QPSK	21201-21372	100RB#0-75RB#0	32.613	34.37	PASS
7-7	20MHz-15MHz	16QAM-16QAM	20850-21021	100RB#0-75RB#0	32.64	34.51	PASS
7-7	20MHz-15MHz	16QAM-16QAM	21026-21197	100RB#0-75RB#0	32.5	34.30	PASS
7-7	20MHz-15MHz	16QAM-16QAM	21201-21372	100RB#0-75RB#0	32.6	34.37	PASS
7-7	20MHz-15MHz	64QAM-64QAM	20850-21021	100RB#0-75RB#0	32.515	34.44	PASS
7-7	20MHz-15MHz	64QAM-64QAM	21026-21197	100RB#0-75RB#0	32.448	34.44	PASS
7-7	20MHz-15MHz	64QAM-64QAM	21201-21372	100RB#0-75RB#0	32.447	34.44	PASS
7-7	20MHz-20MHz	QPSK-QPSK	20850-21048	100RB#0-100RB#0	37.752	40.48	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	37.641	40.48	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21152-21350	100RB#0-100RB#0	37.607	40.48	PASS
7-7	20MHz-20MHz	16QAM-16QAM	20850-21048	100RB#0-100RB#0	37.75	40.32	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21001-21199	100RB#0-100RB#0	37.633	40.16	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21152-21350	100RB#0-100RB#0	37.656	40.16	PASS
7-7	20MHz-20MHz	64QAM-64QAM	20850-21048	100RB#0-100RB#0	37.617	40.24	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21001-21199	100RB#0-100RB#0	37.475	40.16	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21152-21350	100RB#0-100RB#0	37.496	40.08	PASS



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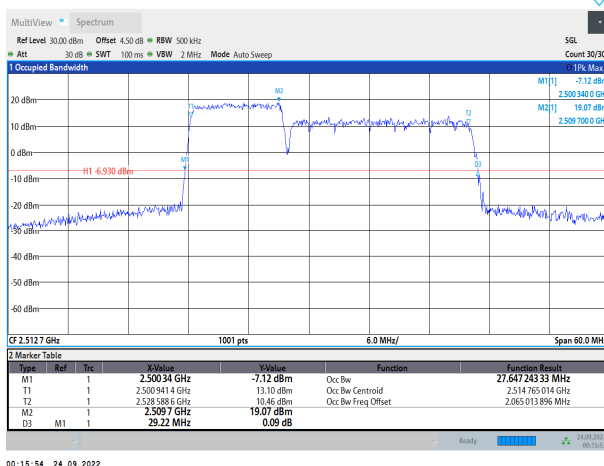
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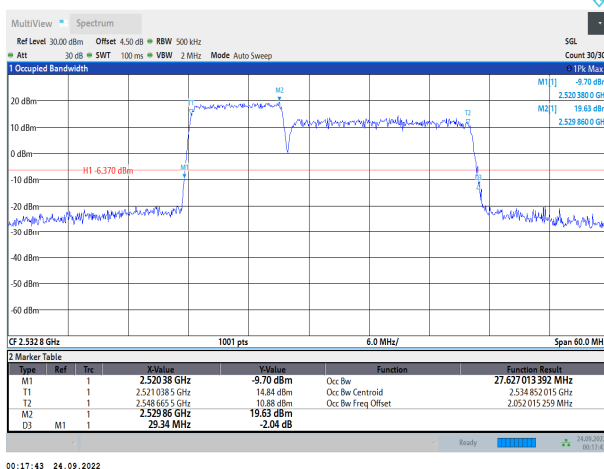
Page: 18 of 75

Test Graphs

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



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



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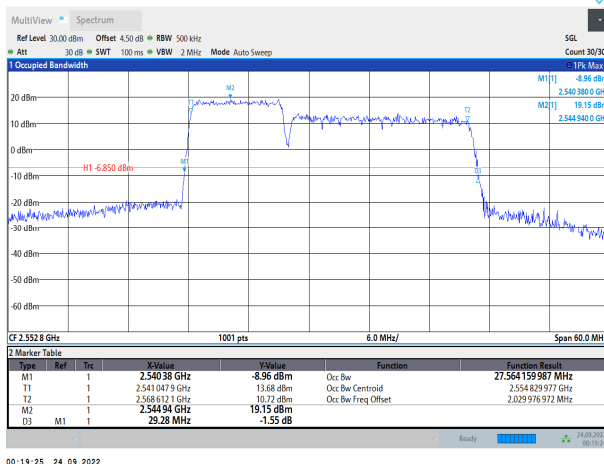
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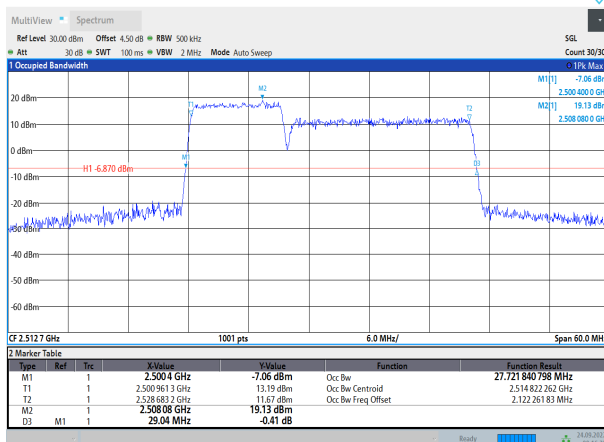
Page: 19 of 75

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



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7-7-10MHz-20MHz-16QAM-16QAM-20805-20949-50RB#0-100RB#0



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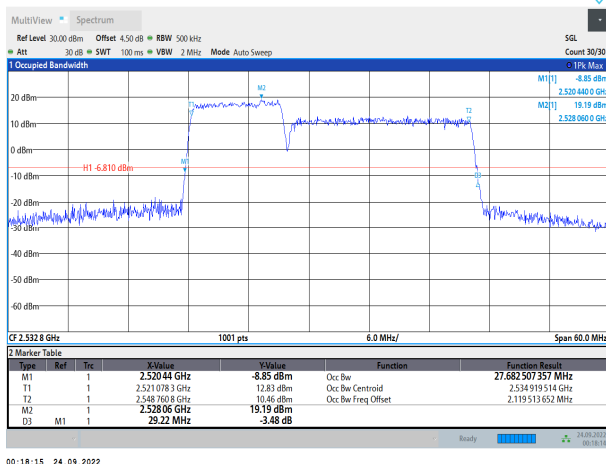
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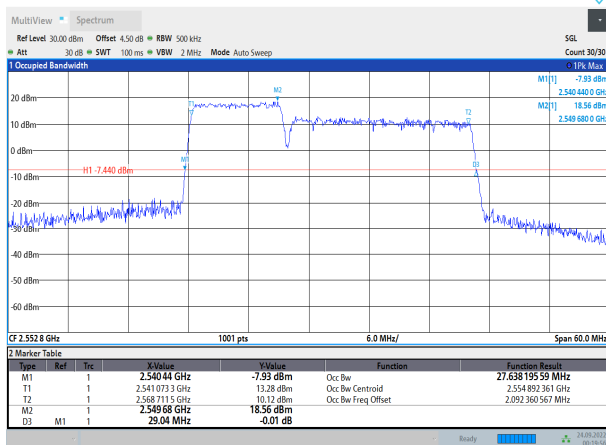
Page: 20 of 75

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



00:18:15 24.09.2022

7-7-10MHz-20MHz-16QAM-16QAM-21206-21350-50RB#0-100RB#0



00:19:56 24.09.2022



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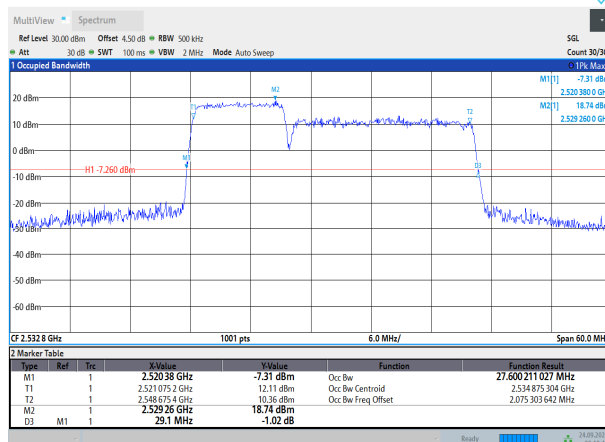
Page: 21 of 75

7-7-10MHz-20MHz-64QAM-64QAM-20805-20949-50RB#0-100RB#0



00:16:57 24.09.2022

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



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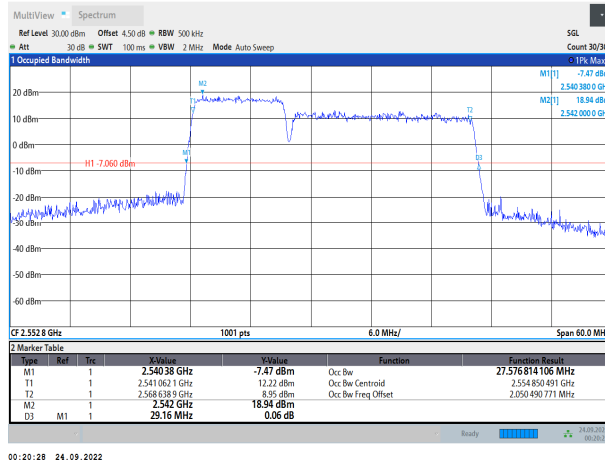
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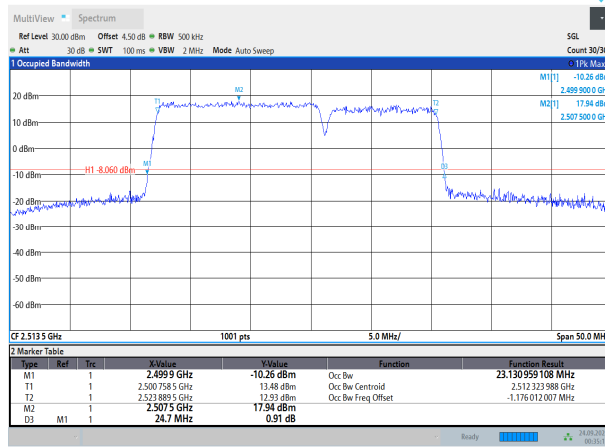
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7-7-10MHz-20MHz-64QAM-64QAM-21206-21350-50RB#0-100RB#0



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



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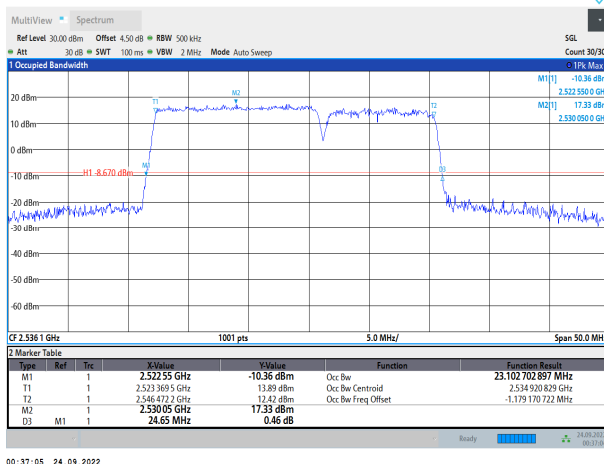
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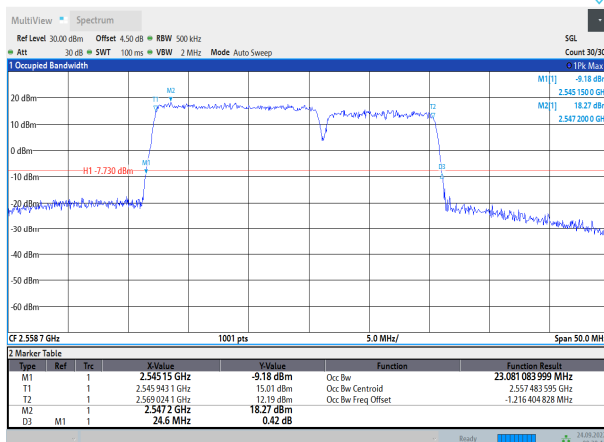
Page: 23 of 75

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



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



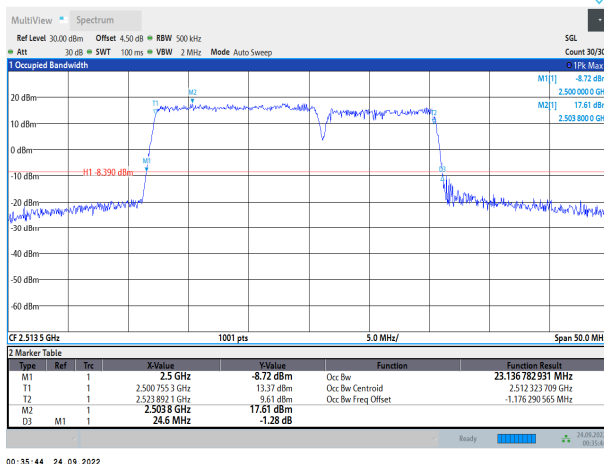
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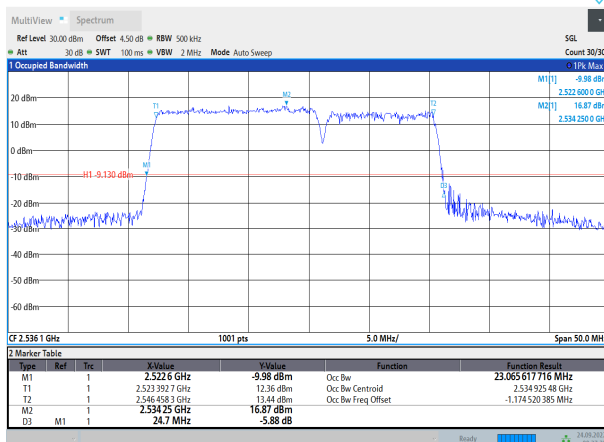
Page: 24 of 75

7-7-15MHz-10MHz-16QAM-16QAM-20825-20945-75RB#0-50RB#0



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



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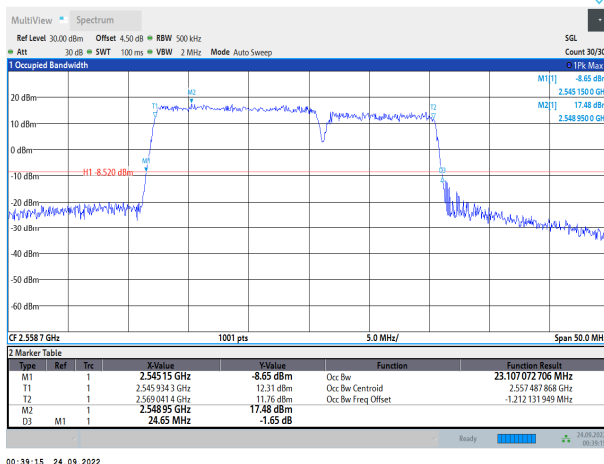
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Rev.: 01

Page: 25 of 75

7-7-15MHz-10MHz-16QAM-16QAM-21277-21397-75RB#0-50RB#0



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7-7-15MHz-10MHz-64QAM-64QAM-20825-20945-75RB#0-50RB#0



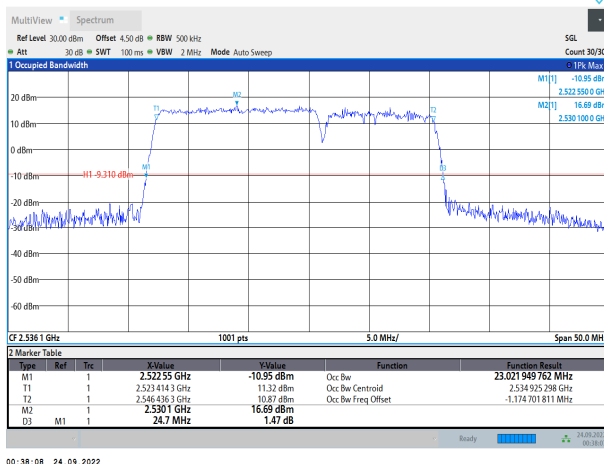
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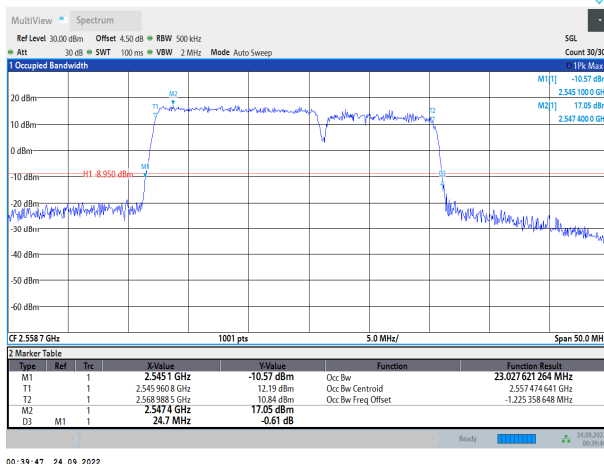
Rev.: 01

Page: 26 of 75

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



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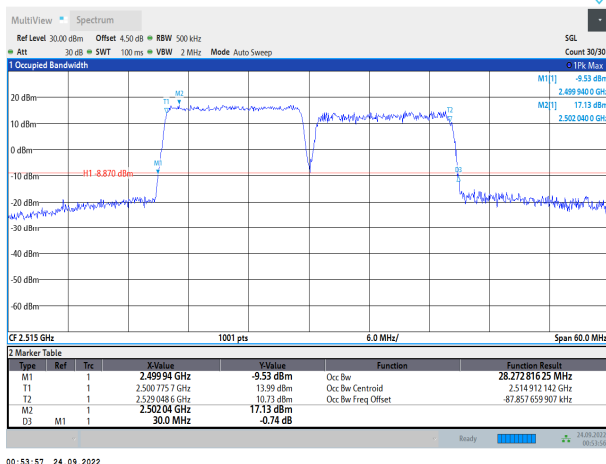


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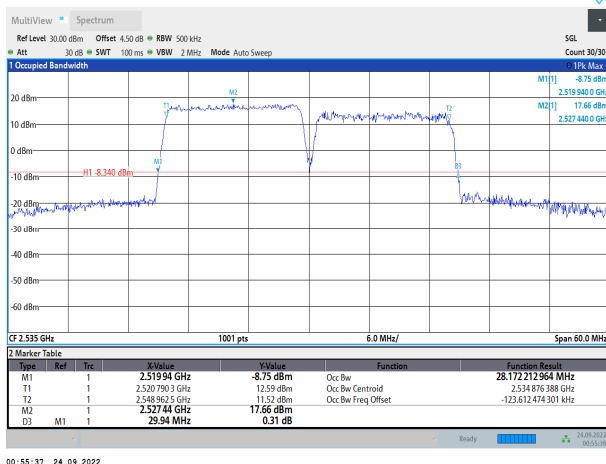
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7-7-15MHz-15MHz-QPSK-QPSK-20825-20975-75RB#0-75RB#0



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



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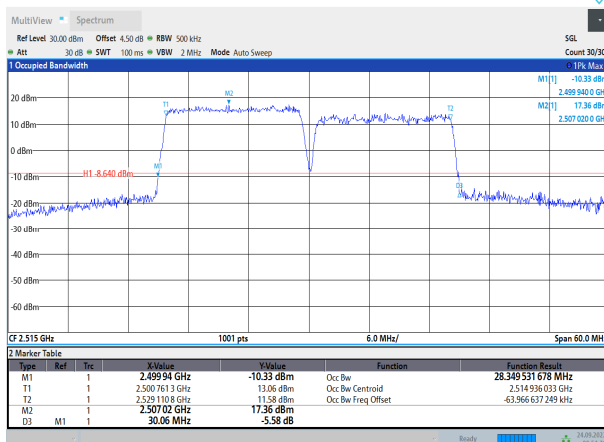
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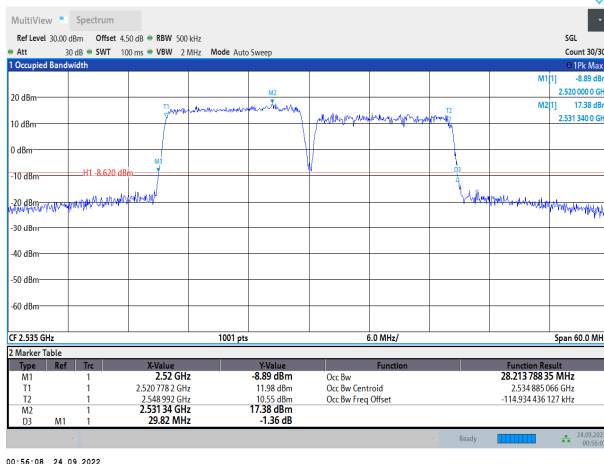
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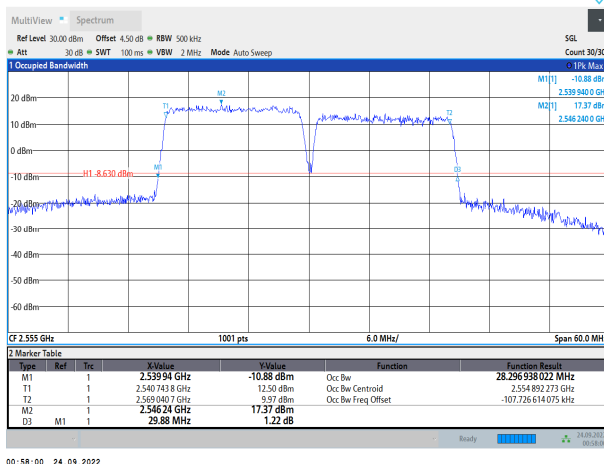
Rev.: 01

Page: 29 of 75

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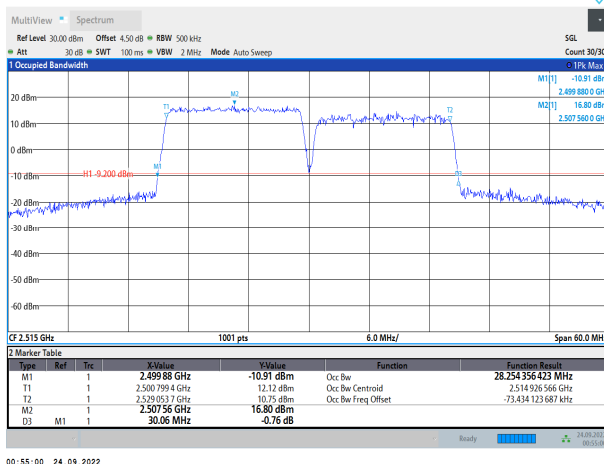


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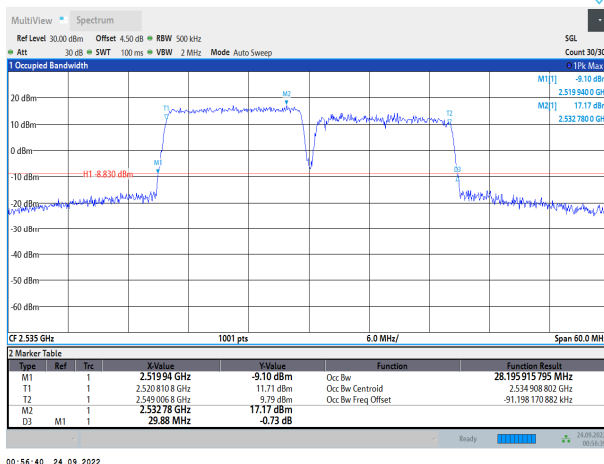
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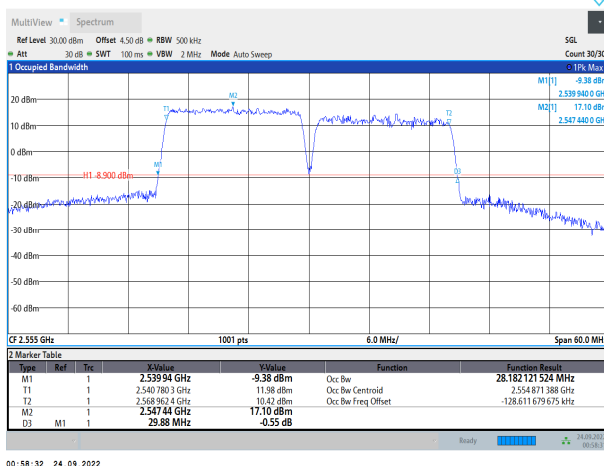


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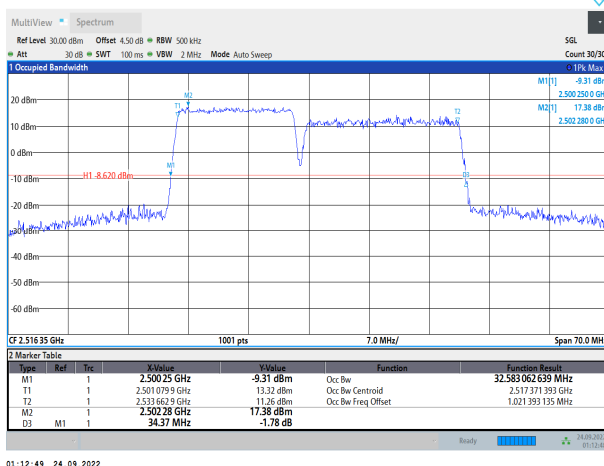
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Page: 31 of 75

7-7-15MHz-15MHz-64QAM-64QAM-21225-21375-75RB#0-75RB#0



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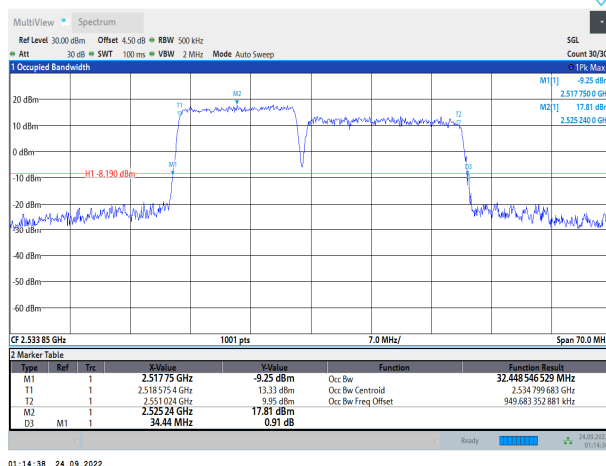


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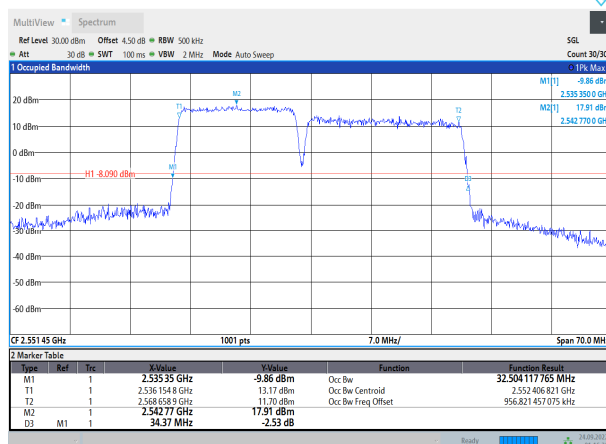
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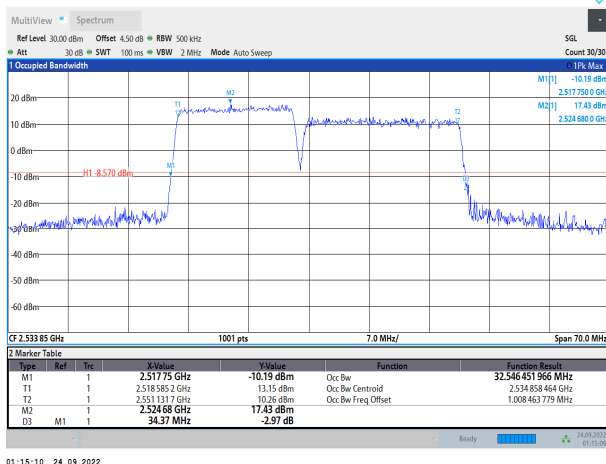


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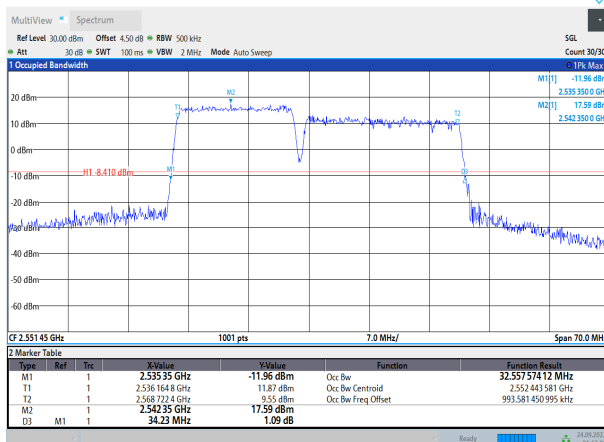
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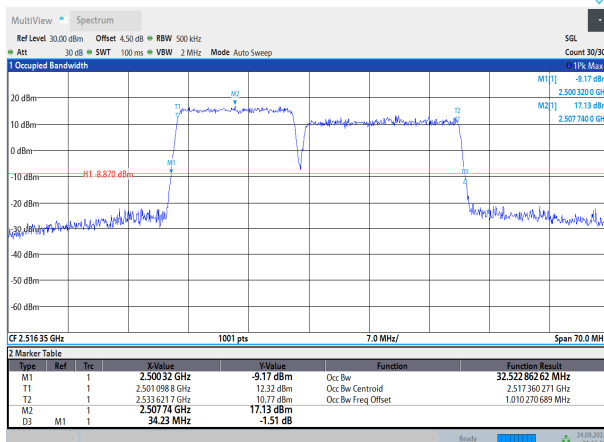
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7-7-15MHz-20MHz-64QAM-64QAM-20828-20999-75RB#0-100RB#0



01:13:52 24.09.2022



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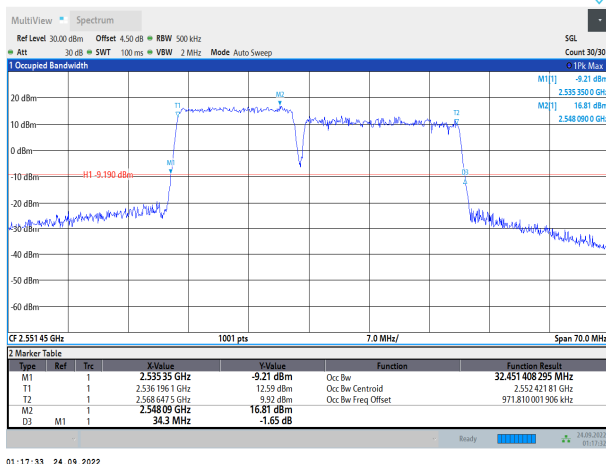
Rev.: 01

Page: 35 of 75

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



7-7-15MHz-20MHz-64QAM-64QAM-21179-21350-75RB#0-100RB#0



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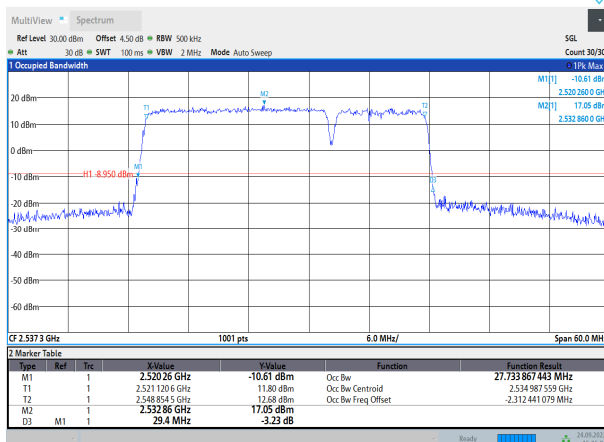
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7-7-20MHz-10MHz-QPSK-QPSK-20850-20994-100RB#0-50RB#0



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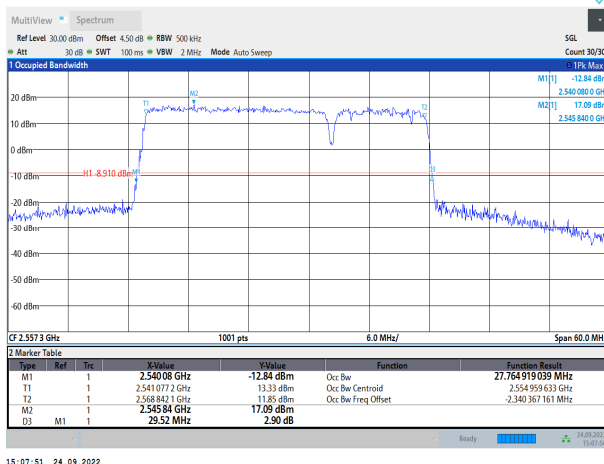
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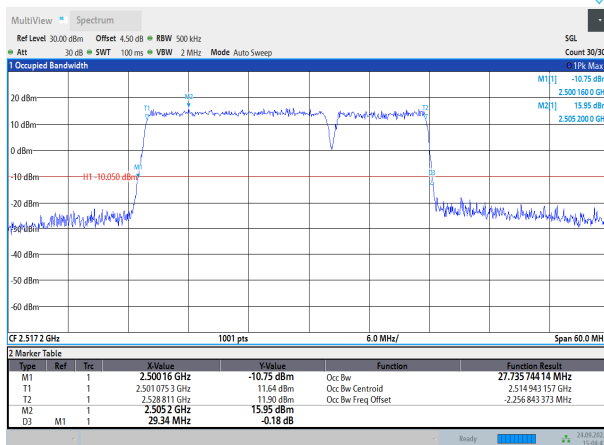
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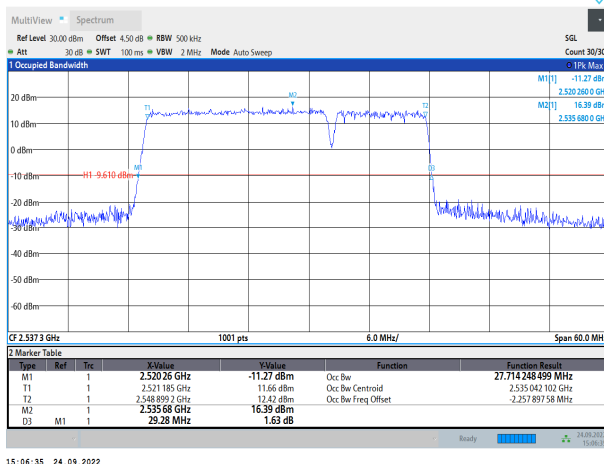
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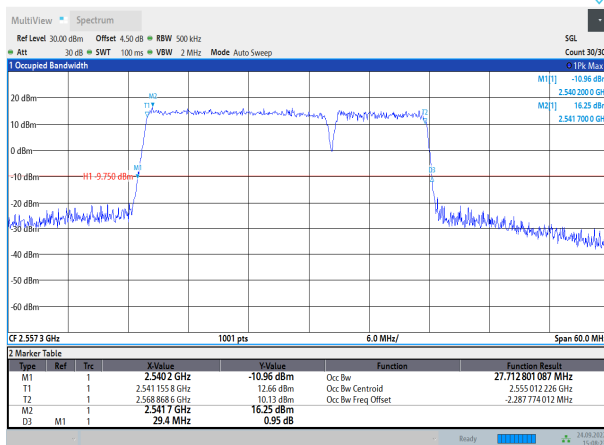
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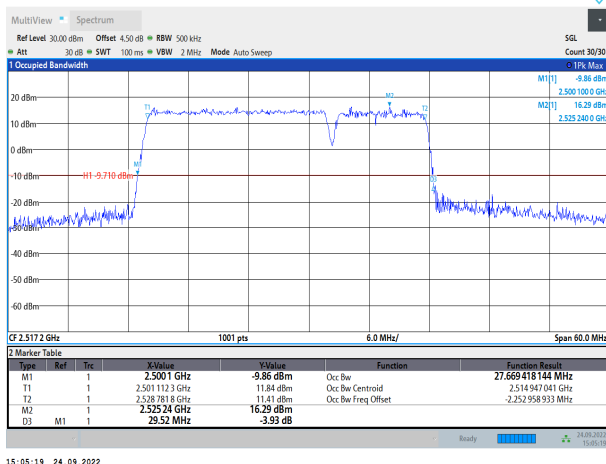
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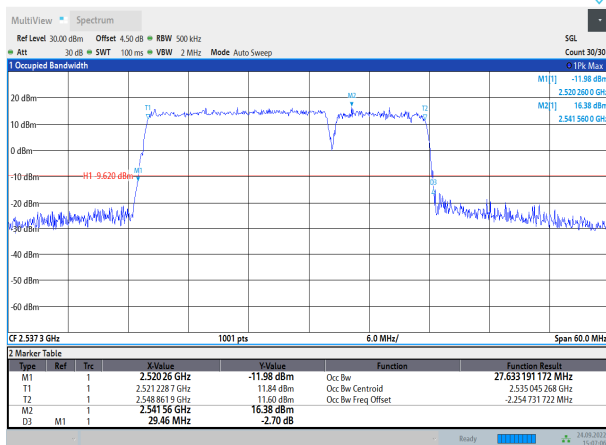
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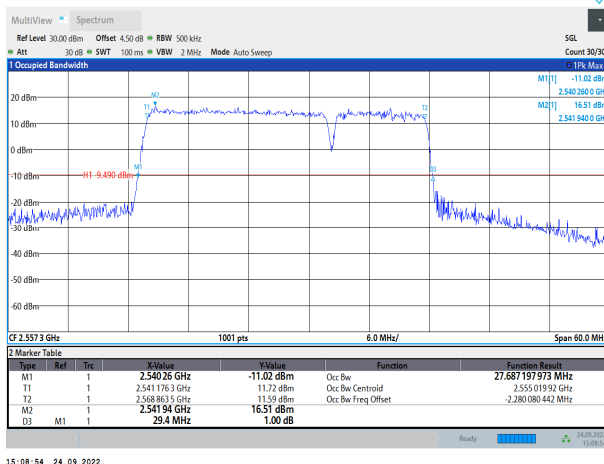
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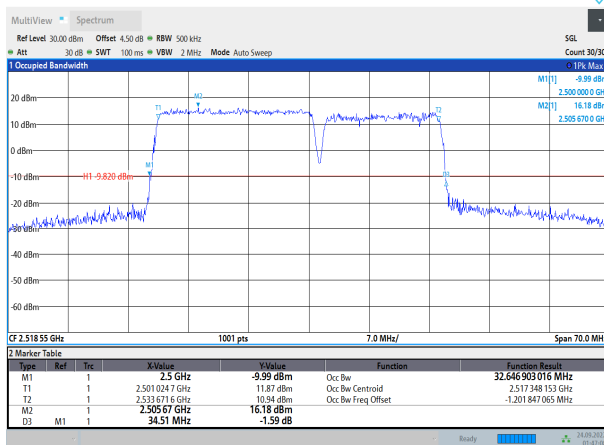
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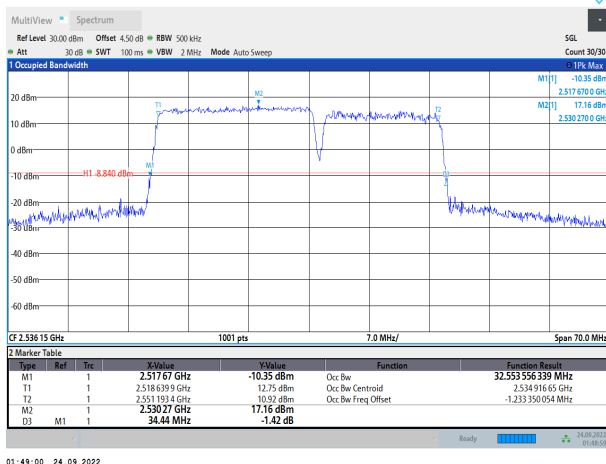
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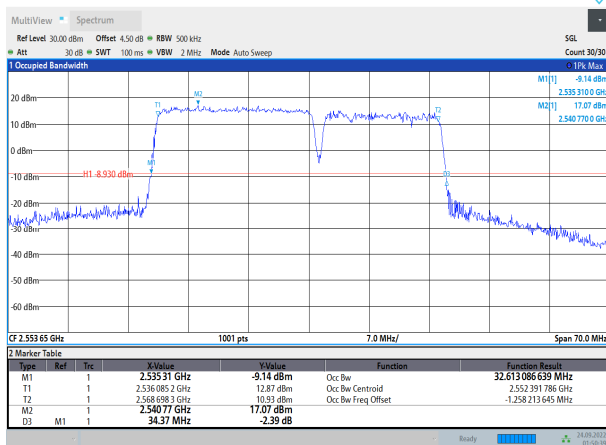
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7-7-20MHz-15MHz-QPSK-QPSK-21026-21197-100RB#0-75RB#0



01:49:00 24.09.2022

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



01:50:39 24.09.2022



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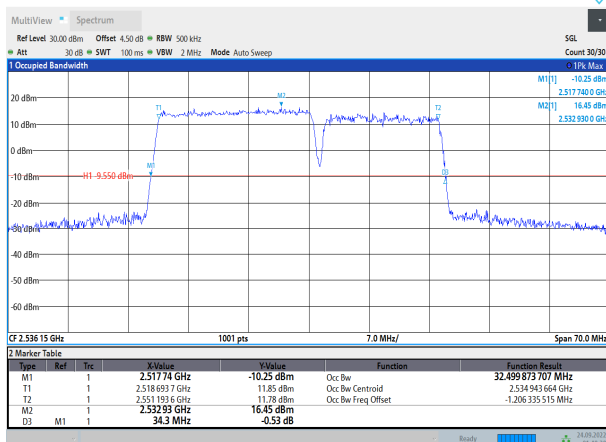
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7-7-20MHz-15MHz-16QAM-16QAM-20850-21021-100RB#0-75RB#0



01:47:40 24.09.2022

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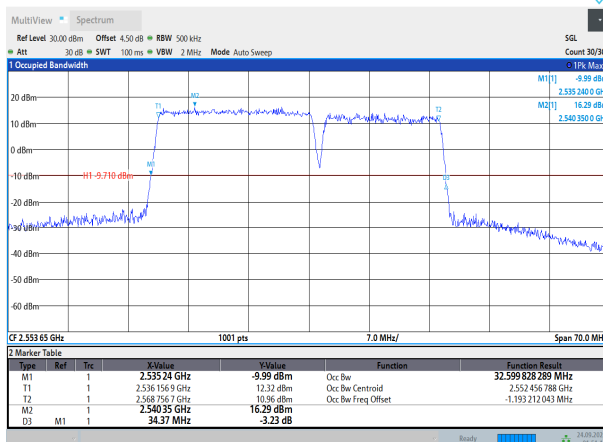
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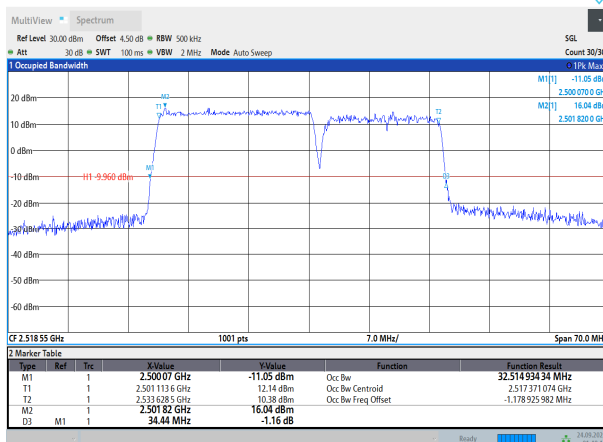
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7-7-20MHz-15MHz-16QAM-16QAM-21201-21372-100RB#0-75RB#0



01:51:11 24.09.2022

7-7-20MHz-15MHz-64QAM-64QAM-20850-21021-100RB#0-75RB#0



01:48:11 24.09.2022



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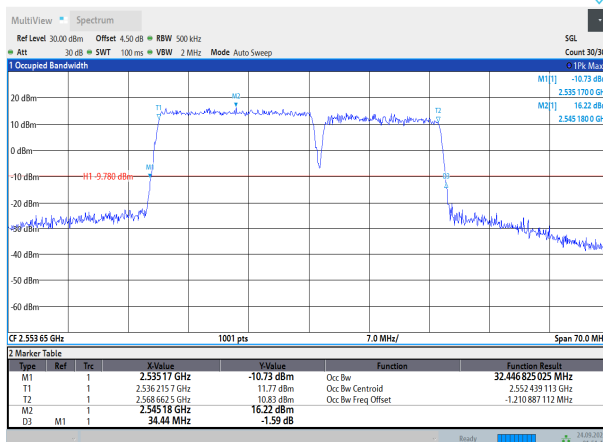
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7-7-20MHz-15MHz-64QAM-64QAM-21026-21197-100RB#0-75RB#0



01:50:03 24.09.2022

7-7-20MHz-15MHz-64QAM-64QAM-21201-21372-100RB#0-75RB#0



01:51:42 24.09.2022



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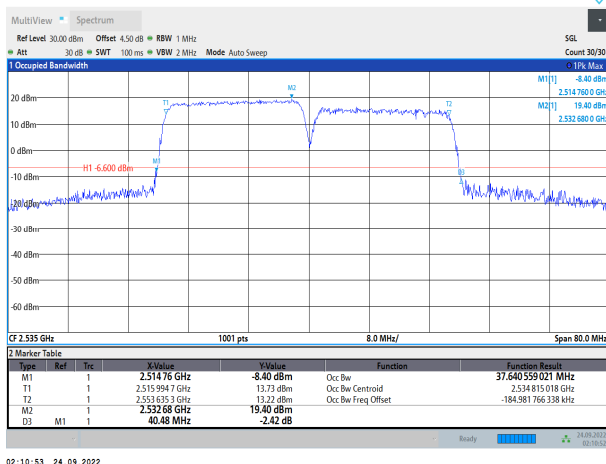
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7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-100RB#0-100RB#0



02:09:11 24.09.2022

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



02:10:53 24.09.2022



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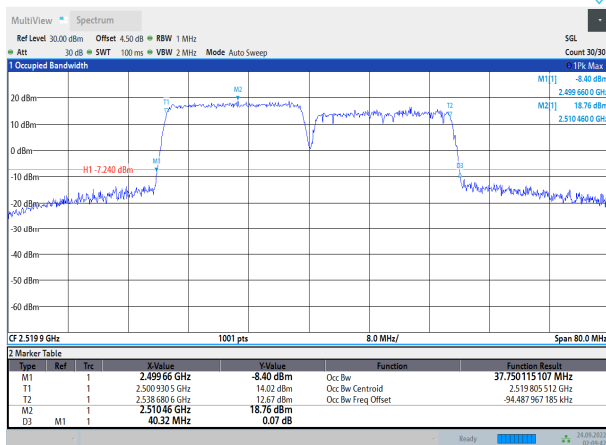
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7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-100RB#0-100RB#0



02:12:32 24.09.2022

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



02:09:43 24.09.2022



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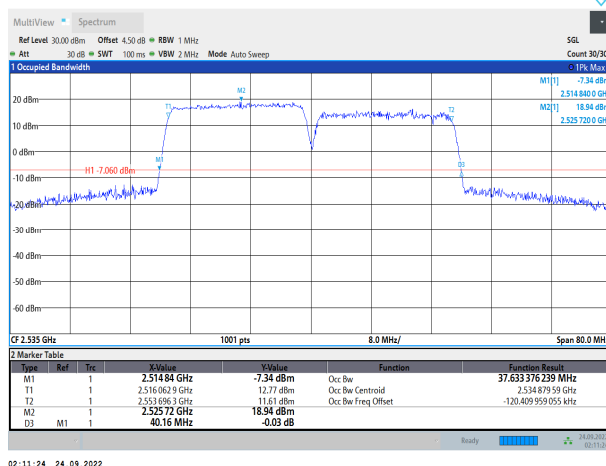
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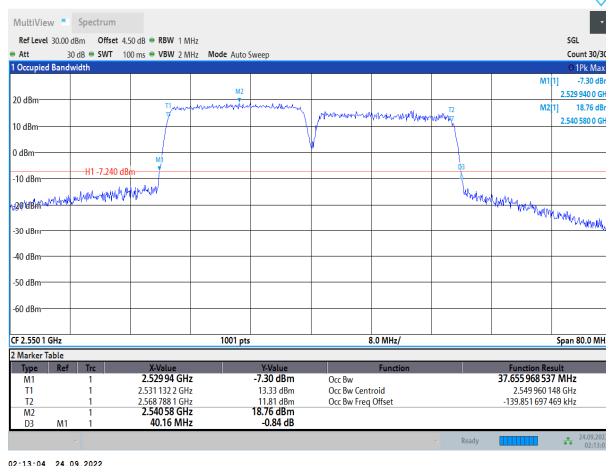
Page: 47 of 75

7-7-20MHz-20MHz-16QAM-16QAM-211001-21199-100RB#0-100RB#0



02:11:24 24. 09. 2022

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



02:13:04 24. 09. 2022



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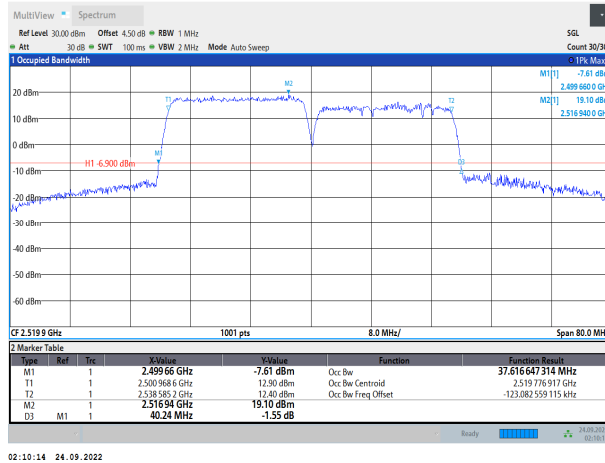
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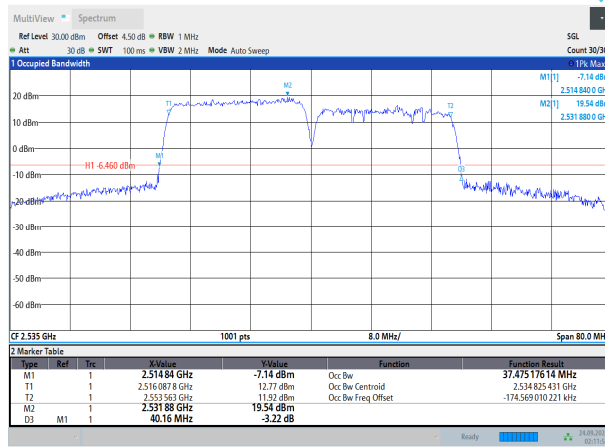
Page: 48 of 75

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02:10:14 24.09.2022

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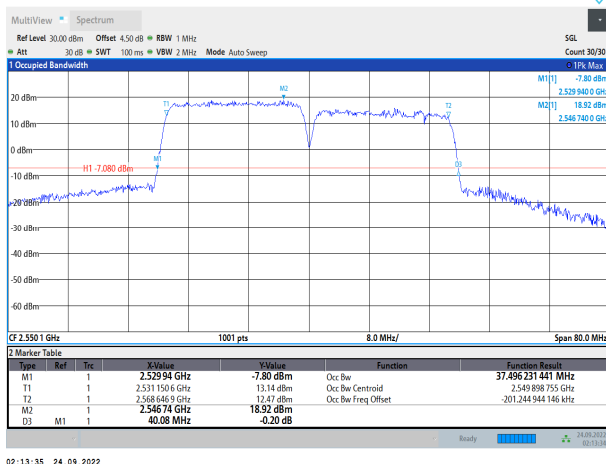
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Report No.: SEWA2208000034RG01

Rev.: 01

Page: 49 of 75

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02:19:35 24.09.2022



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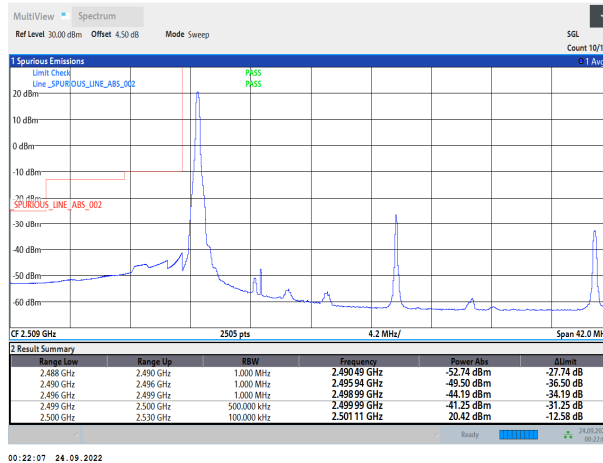
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Page: 50 of 75

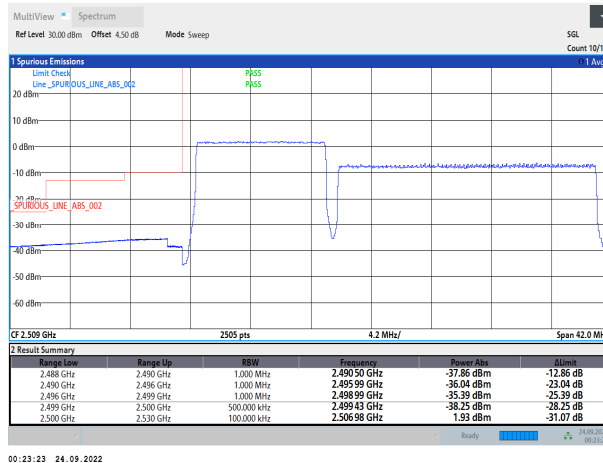
Band Edge

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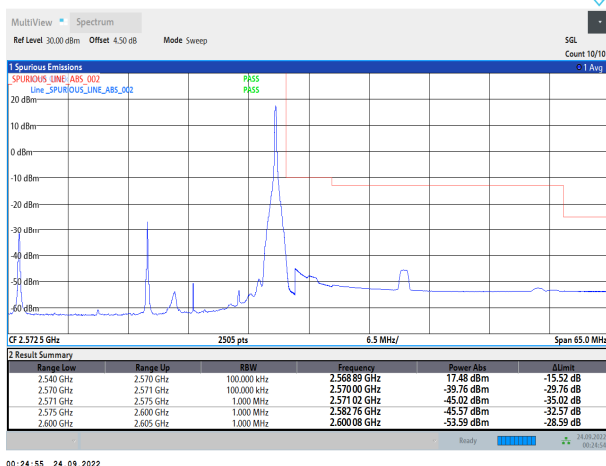
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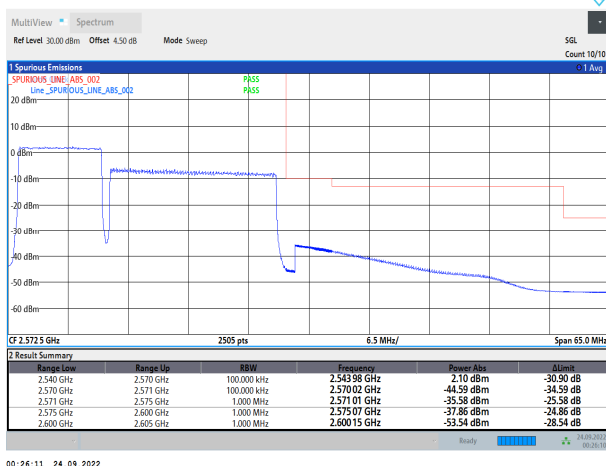
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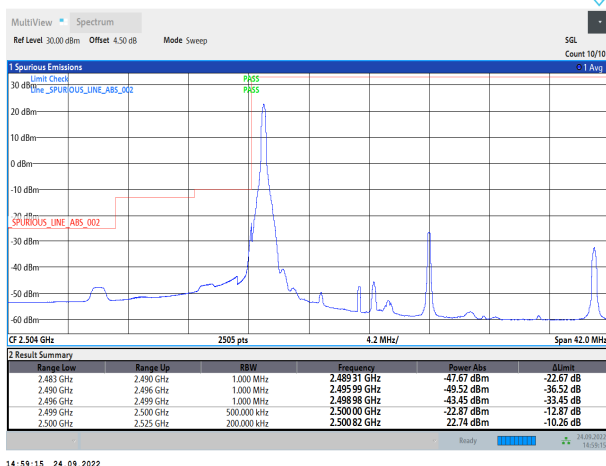
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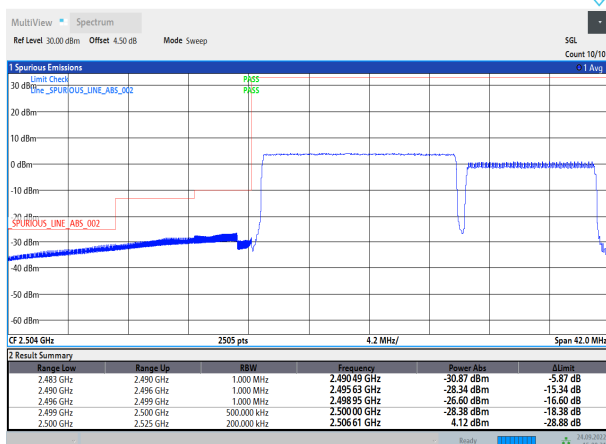
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7-7-15MHz-10MHz-QPSK-QPSK-20825-20945-1RB#0-0RB#0



14:59:15 24.09.2022

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



15:00:32 24.09.2022



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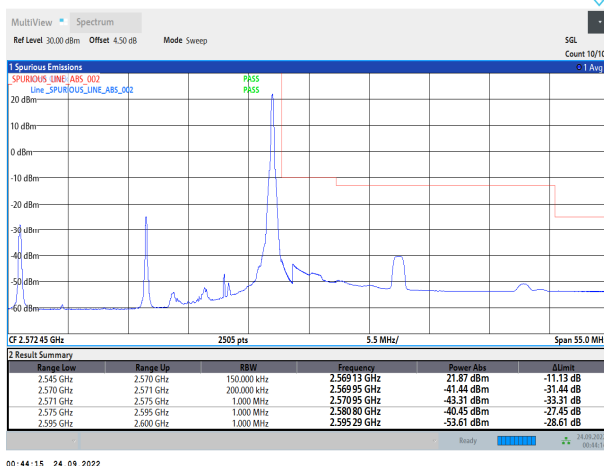
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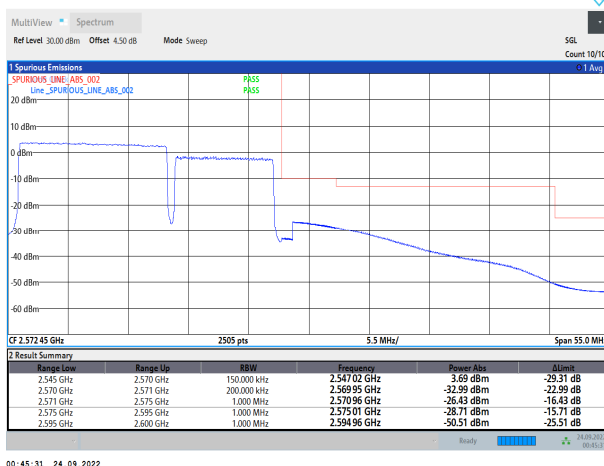
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7-7-15MHz-10MHz-QPSK-QPSK-21277-21397-0RB#0-1RB#49



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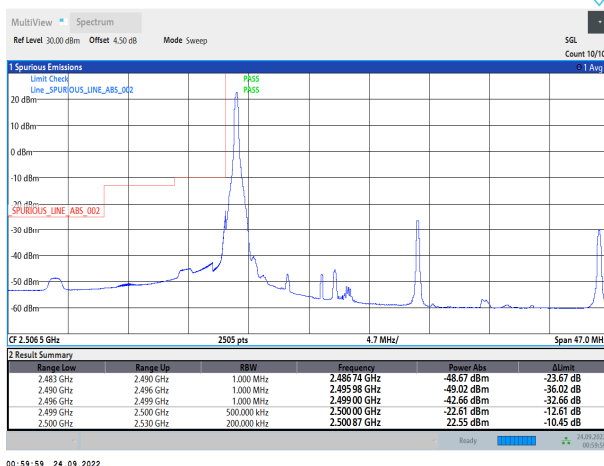
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Report No.: SEWA2208000034RG01

Rev.: 01

Page: 54 of 75

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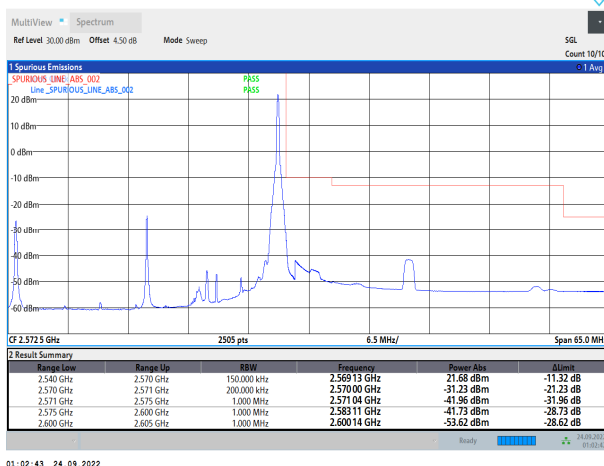
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Report No.: SEWA2208000034RG01

Rev.: 01

Page: 55 of 75

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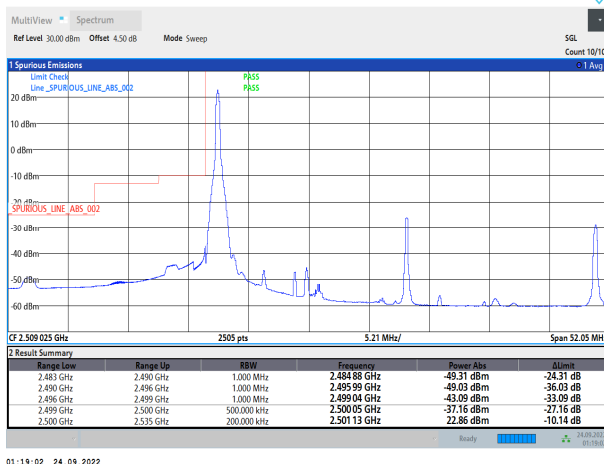


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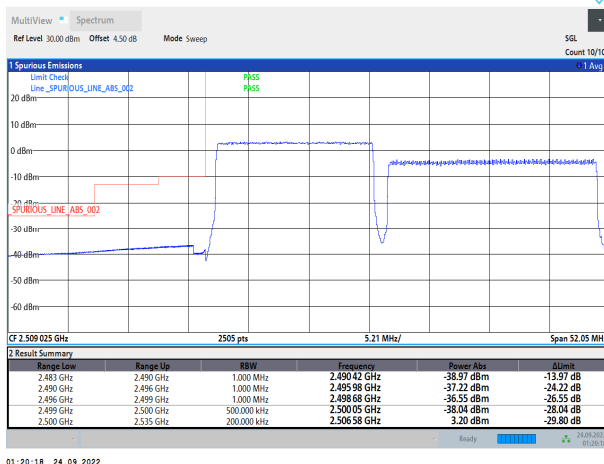
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01:19:02 24.09.2022

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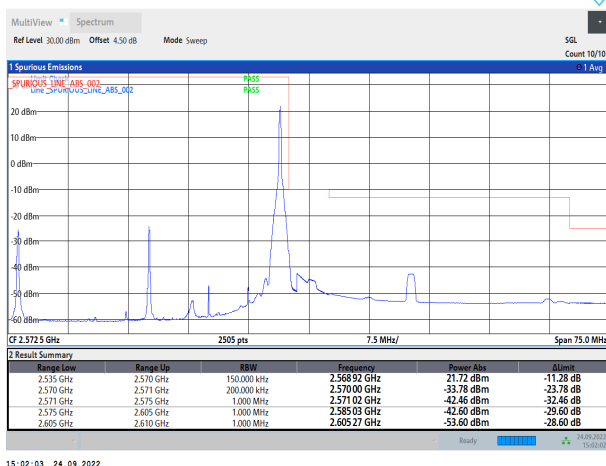
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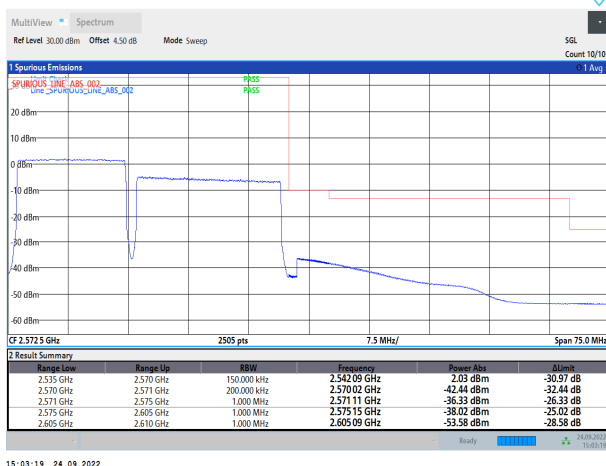
Rev.: 01

Page: 57 of 75

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7-7-15MHz-20MHz-QPSK-QPSK-21179-21350-75RB#0-100RB#0



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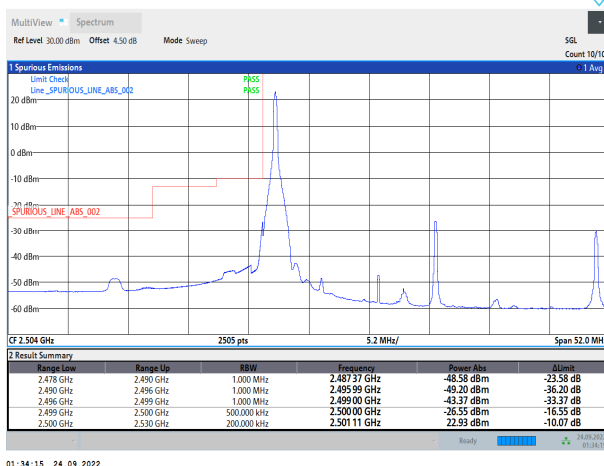
Page: 58 of 75

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



01:35:32 24.09.2022

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



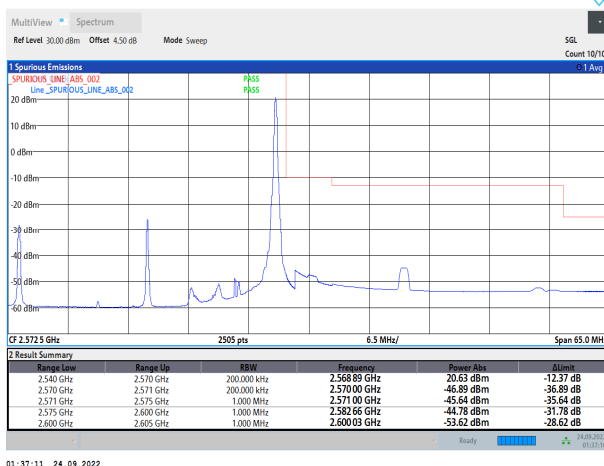
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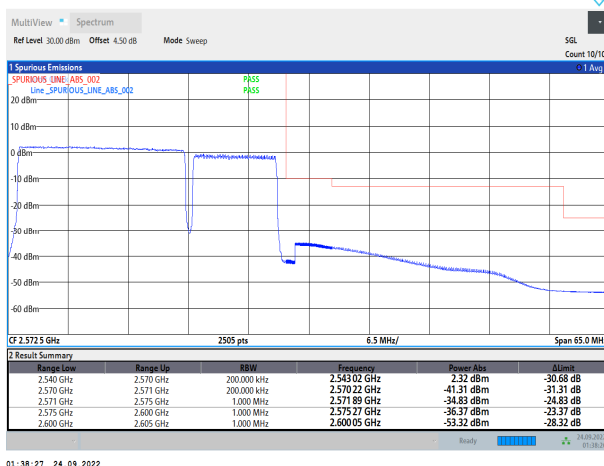
Rev.: 01

Page: 59 of 75

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



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



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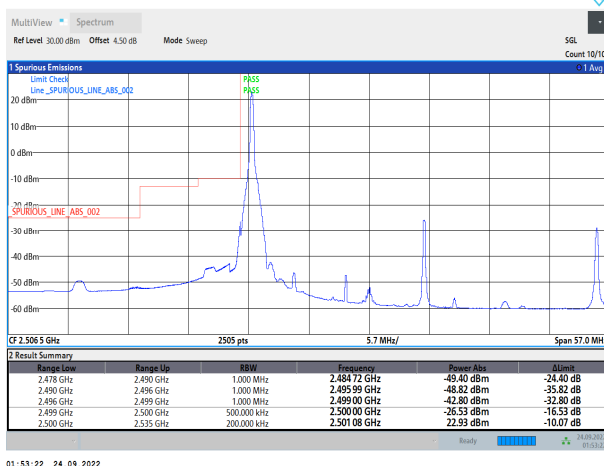
Page: 60 of 75

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



01:54:39 24.09.2022

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



01:53:22 24.09.2022



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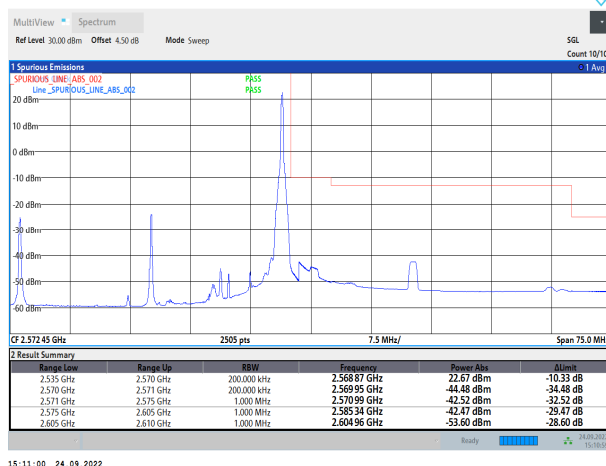
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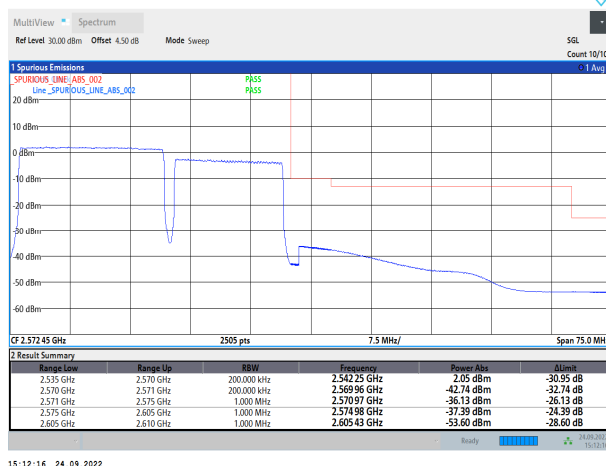
Page: 61 of 75

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



15:11:00 24.09.2022

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



15:12:16 24.09.2022



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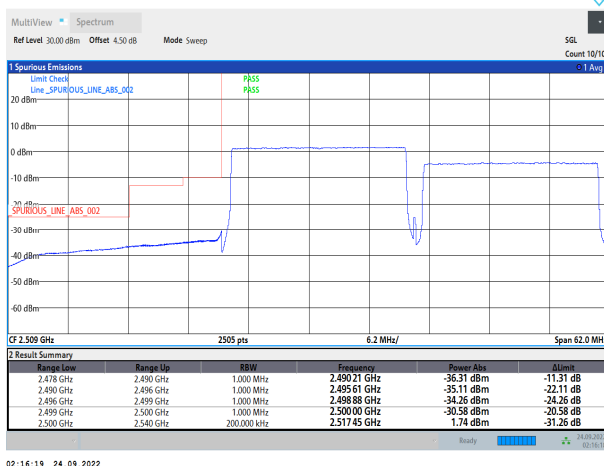
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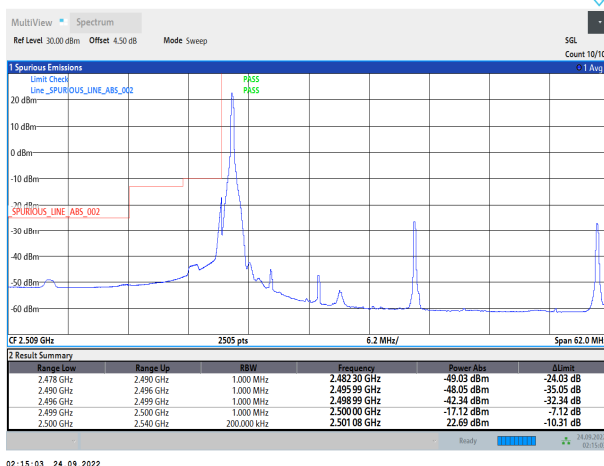
Page: 62 of 75

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



02:16:19 24.09.2022

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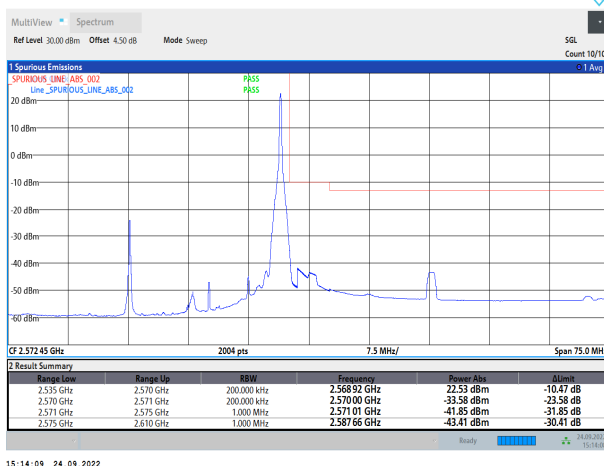
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Report No.: SEWA2208000034RG01

Rev.: 01

Page: 63 of 75

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



15:14:09 24.09.2022

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



15:15:25 24.09.2022

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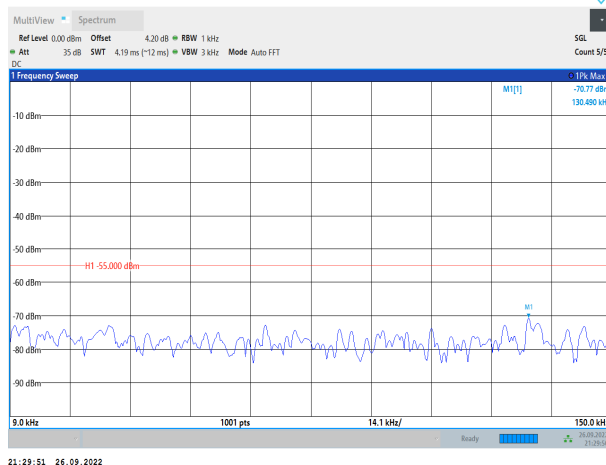
Rev.: 01

Page: 64 of 75

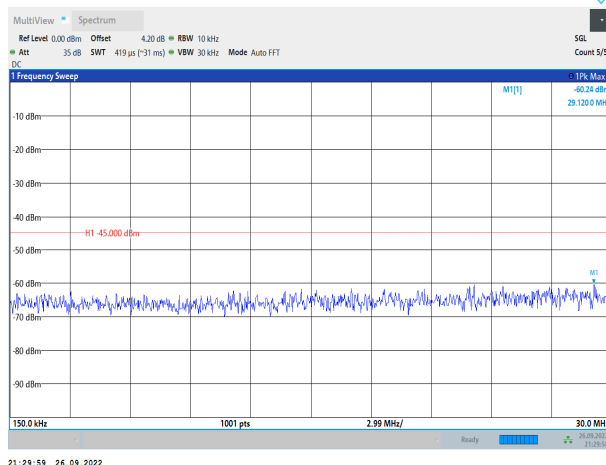
Conducted Spurious Emission

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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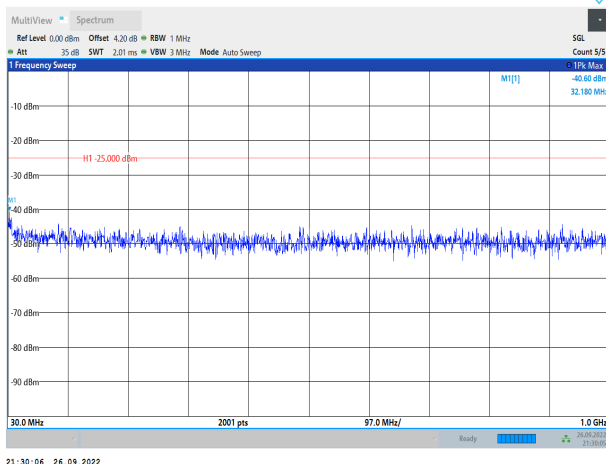
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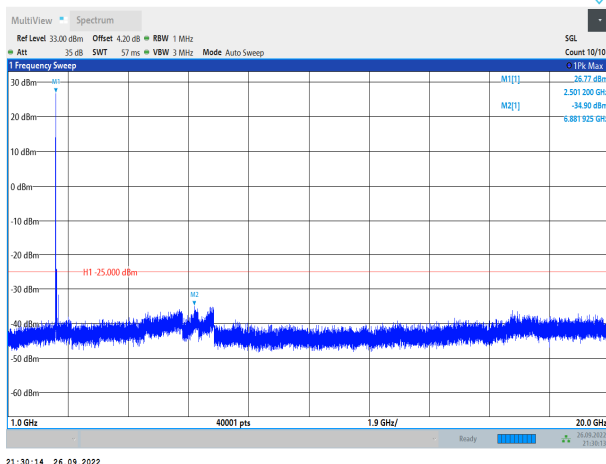
Rev.: 01

Page: 65 of 75

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



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



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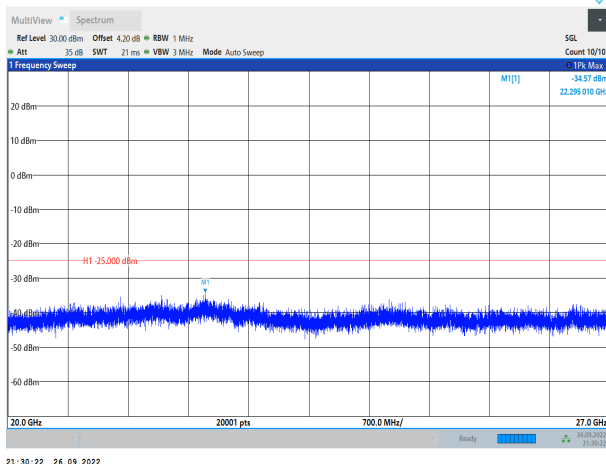
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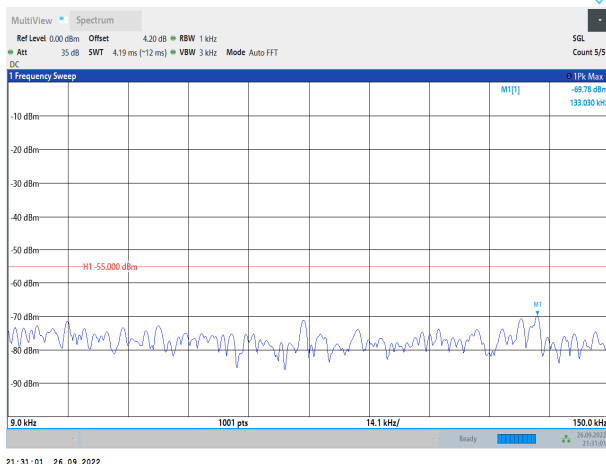
Rev.: 01

Page: 66 of 75

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



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



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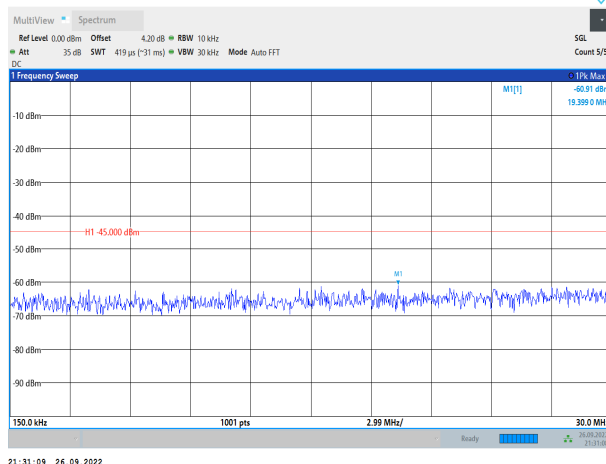
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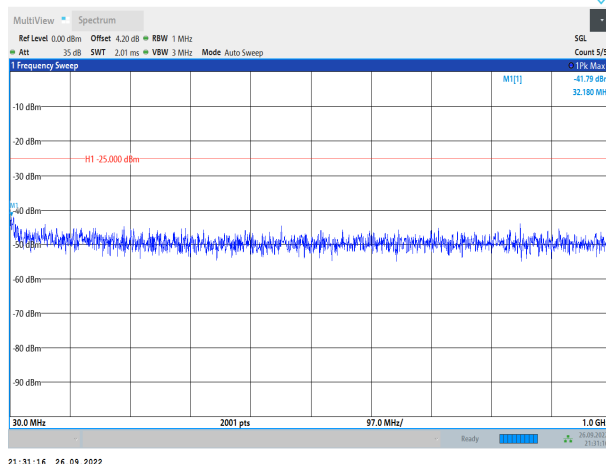
Rev.: 01

Page: 67 of 75

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



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



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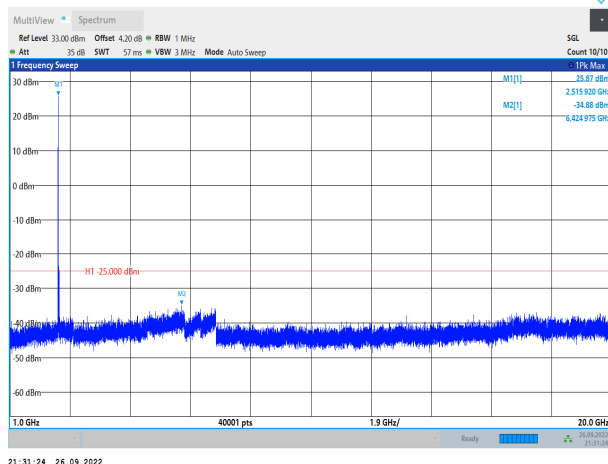
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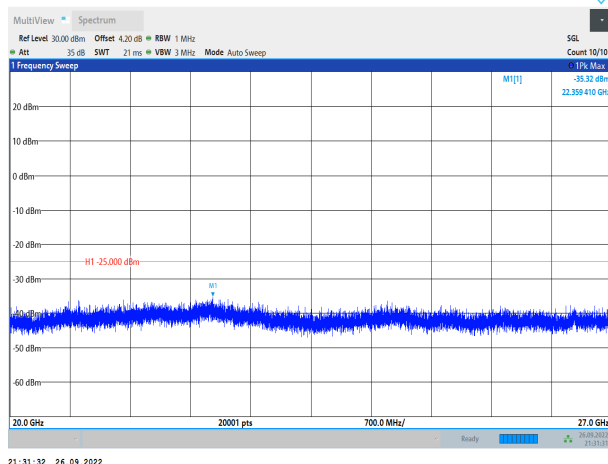
Rev.: 01

Page: 68 of 75

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



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



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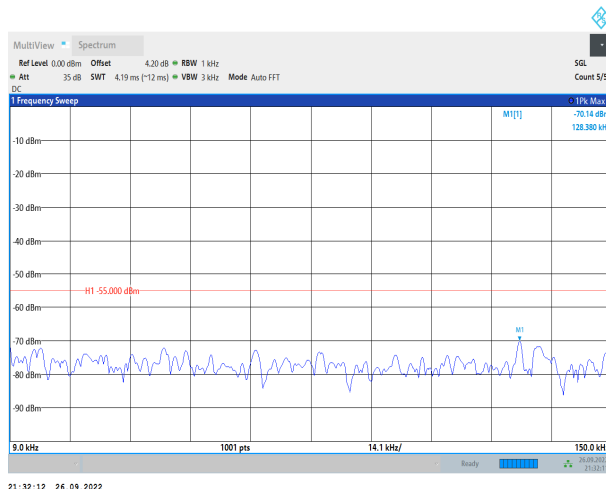
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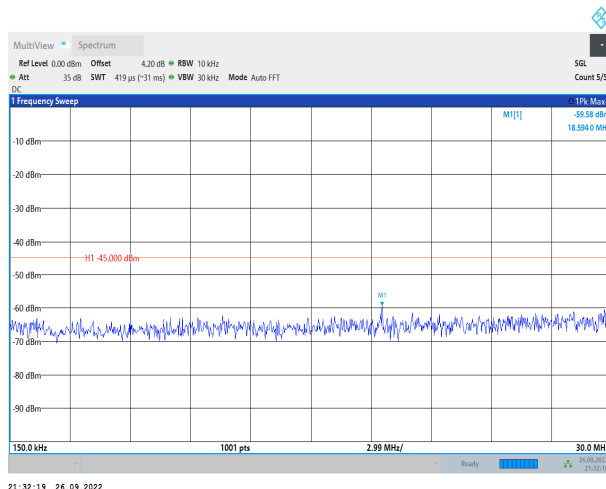
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7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-1RB#0-0RB#0-0.009~0.15MHz



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



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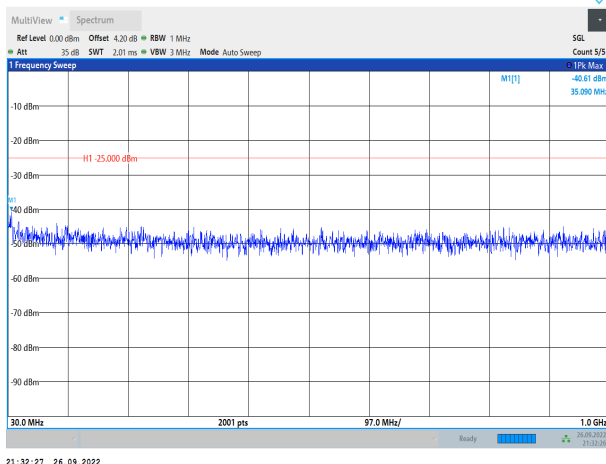
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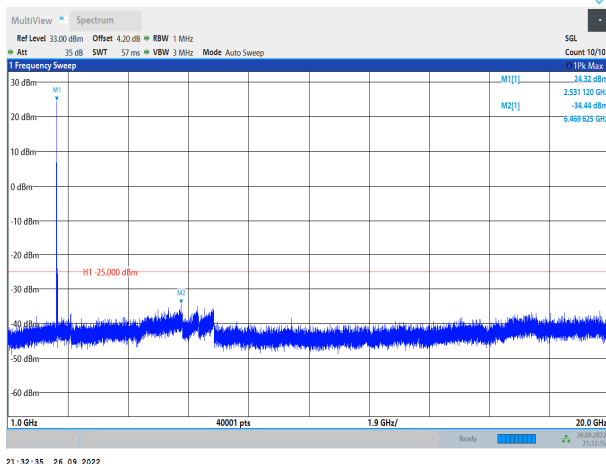
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Page: 70 of 75

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



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

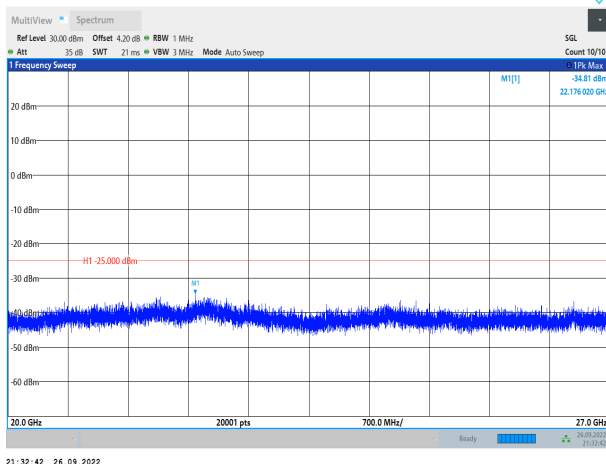


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 Rev.: 01
 Page: 72 of 75

Field Strength of Spurious Radiation

Test Band = UL CA Band 7_ 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	5002.1800	61.78	-45.63	32.88	-46.23	-25.00	21.23	175	299	Horizontal
2	7503.2700	49.28	-43.13	36.44	-52.67	-25.00	27.67	163	344	Horizontal
3	10004.25	43.68	-39.23	38.50	-52.32	-25.00	27.32	145	53	Horizontal
4	12505.4500	29.81	-36.99	39.18	-63.26	-25.00	38.26	187	69	Horizontal
5	15006.5400	28.28	-34.65	39.21	-62.42	-25.00	37.42	195	193	Horizontal
6	17507.6300	29.52	-34.95	39.22	-61.47	-25.00	36.47	163	268	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	5002.1800	57.88	-45.63	32.88	-50.13	-25.00	25.13	193	87	Vertical
2	7503.2700	57.60	-43.13	36.44	-44.35	-25.00	19.35	162	270	Vertical
3	10004.25	53.48	-39.23	38.50	-42.52	-25.00	17.52	253	2	Vertical
4	12505.4500	29.92	-36.99	39.18	-63.15	-25.00	38.15	154	256	Vertical
5	15006.5400	28.10	-34.65	39.21	-62.60	-25.00	37.60	183	14	Vertical
6	17507.6300	29.24	-34.95	39.22	-61.75	-25.00	36.75	194	356	Vertical



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Report No.: SEWA2208000034RG01
 Rev.: 01
 Page: 73 of 75

Test Band = UL CA Band 7_ 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	5032.3800	58.32	-45.55	32.90	-49.59	-25.00	24.59	172	300	Horizontal
2	7548.2700	47.64	-43.04	36.42	-54.24	-25.00	29.24	136	314	Horizontal
3	10064.25	44.45	-39.16	38.59	-51.38	-25.00	26.38	213	314	Horizontal
4	12580.9500	29.12	-37.49	39.26	-64.37	-25.00	39.37	169	2	Horizontal
5	15097.1400	28.26	-34.94	39.09	-62.85	-25.00	37.85	271	193	Horizontal
6	17613.3300	30.21	-33.34	39.62	-58.77	-25.00	33.77	283	238	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	5032.3800	50.08	-45.55	32.90	-57.83	-25.00	32.83	152	55	Vertical
2	7548.2700	59.81	-43.04	36.42	-42.07	-25.00	17.07	136	269	Vertical
3	10064.25	53.00	-39.16	38.59	-42.83	-25.00	17.83	213	5	Vertical
4	12580.9500	29.96	-37.49	39.26	-63.53	-25.00	38.53	172	86	Vertical
5	15097.1400	28.54	-34.94	39.09	-62.57	-25.00	37.57	185	70	Vertical
6	17613.3300	29.24	-33.34	39.62	-59.74	-25.00	34.74	161	238	Vertical



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Report No.: SEWA2208000034RG01
 Rev.: 01
 Page: 74 of 75

Test Band = UL CA Band 7_ 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	5062.5	62.62	-45.47	32.91	-45.20	-25.00	20.20	135	38	Horizontal
2	7593.8700	46.32	-42.94	36.39	-55.49	-25.00	30.49	214	0	Horizontal
3	10125.1600	40.98	-39.22	38.69	-54.81	-25.00	29.81	252	344	Horizontal
4	12656.4500	29.84	-37.08	39.38	-63.12	-25.00	38.12	163	24	Horizontal
5	15187.7400	29.20	-34.04	38.97	-61.14	-25.00	36.14	178	299	Horizontal
6	17719.0300	30.80	-34.15	40.30	-58.31	-25.00	33.31	193	38	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	5062.5	59.55	-45.47	32.91	-48.27	-25.00	23.27	216	89	Vertical
2	7593.8700	53.74	-42.94	36.39	-48.07	-25.00	23.07	224	314	Vertical
3	10125.1600	47.75	-39.22	38.69	-48.04	-25.00	23.04	153	283	Vertical
4	12656.4500	31.12	-37.08	39.38	-61.84	-25.00	36.84	178	194	Vertical
5	15187.7400	30.05	-34.04	38.97	-60.29	-25.00	35.29	194	15	Vertical
6	17719.0300	30.50	-34.15	40.30	-58.61	-25.00	33.61	221	29	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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Frequency Stability

Test Result

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	22.70	0.008990	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	VL	NT	15.10	0.005980	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	VN	NT	22.90	0.009069	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	33.90	0.013425	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	-20	30.50	0.012079	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	-10	30.80	0.012198	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	0	36.10	0.014296	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	10	36.20	0.014336	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	20	34.90	0.013821	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	30	27.20	0.010772	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	40	24.40	0.009663	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	50	24.40	0.009663	PASS

 $|\text{MAX}(\Delta f)| = 36.2\text{Hz}$

Frequency Stability	Frequency (MHz)	Limit Line	Result
$f_L - \text{MAX}(\Delta f) $	2500.564254	$\geq 2500\text{ MHz}$	PASS
$f_H + \text{MAX}(\Delta f) $	2569.436982	$\leq 2570\text{ MHz}$	

---End of Attachment---



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