

Appendix B.15

LTE CA_7C



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Effective (Isotropic) Radiated Power Output Data

Test Result

Ant3:

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
7-7	20MHz-20MHz	QPSK-QPSK	20850-21048	1RB#99-1RB#0	24.09	22.89	33	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21100-20902	1RB#99-1RB#0	24.16	22.96	33	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21350-21152	1RB#99-1RB#0	24.11	22.91	33	PASS
7-7	20MHz-20MHz	16QAM-16QAM	20850-21048	1RB#99-1RB#0	23.12	21.92	33	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21100-20902	1RB#99-1RB#0	23.06	21.86	33	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21350-21152	1RB#99-1RB#0	23.13	21.93	33	PASS
7-7	20MHz-20MHz	64QAM-64QAM	20850-21048	1RB#99-1RB#0	22.06	20.86	33	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21100-20902	1RB#99-1RB#0	22.11	20.91	33	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21350-21152	1RB#99-1RB#0	22.23	21.03	33	PASS
7-7	20MHz-20MHz	256QAM-256QAM	20850-21048	1RB#99-1RB#0	21.12	19.92	33	PASS
7-7	20MHz-20MHz	256QAM-256QAM	21100-20902	1RB#99-1RB#0	21.25	20.05	33	PASS
7-7	20MHz-20MHz	256QAM-256QAM	21350-21152	1RB#99-1RB#0	21.32	20.12	33	PASS
7-7	10MHz-20MHz	QPSK-QPSK	21006-21150	1RB#49-1RB#0	24.12	22.92	33	PASS
7-7	10MHz-20MHz	16QAM-16QAM	21006-21150	1RB#49-1RB#0	23.21	22.01	33	PASS
7-7	15MHz-10MHz	QPSK-QPSK	21051-21171	1RB#74-1RB#0	24.03	22.83	33	PASS
7-7	15MHz-10MHz	16QAM-16QAM	21051-21171	1RB#74-1RB#0	23.12	21.92	33	PASS
7-7	15MHz-15MHz	QPSK-QPSK	21025-21175	1RB#74-1RB#0	24.16	22.96	33	PASS
7-7	15MHz-15MHz	16QAM-16QAM	21025-21175	1RB#74-1RB#0	23.18	21.98	33	PASS
7-7	15MHz-20MHz	QPSK-QPSK	21003-21174	1RB#74-1RB#0	23.98	22.78	33	PASS
7-7	15MHz-20MHz	16QAM-16QAM	21003-21174	1RB#74-1RB#0	22.01	20.81	33	PASS
7-7	20MHz-10MHz	QPSK-QPSK	21051-21195	1RB#99-1RB#0	24.16	22.96	33	PASS
7-7	20MHz-10MHz	16QAM-16QAM	21051-21195	1RB#99-1RB#0	23.05	21.85	33	PASS
7-7	20MHz-15MHz	QPSK-QPSK	21026-21197	1RB#99-1RB#0	24.11	22.91	33	PASS
7-7	20MHz-15MHz	16QAM-16QAM	21026-21197	1RB#99-1RB#0	23.25	22.05	33	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	4.58	13	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	4.48	13	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21152-21350	100RB#0-100RB#0	4.66	13	PASS
7-7	20MHz-20MHz	16QAM-16QAM	20850-21048	100RB#0-100RB#0	5.64	13	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21001-21199	100RB#0-100RB#0	5.62	13	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21152-21350	100RB#0-100RB#0	5.78	13	PASS
7-7	20MHz-20MHz	64QAM-64QAM	20850-21048	100RB#0-100RB#0	6.08	13	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21001-21199	100RB#0-100RB#0	6.12	13	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21152-21350	100RB#0-100RB#0	6.20	13	PASS
7-7	20MHz-20MHz	256QAM-256QAM	20850-21048	100RB#0-100RB#0	6.50	13	PASS
7-7	20MHz-20MHz	256QAM-256QAM	21001-21199	100RB#0-100RB#0	6.48	13	PASS
7-7	20MHz-20MHz	256QAM-256QAM	21152-21350	100RB#0-100RB#0	6.54	13	PASS

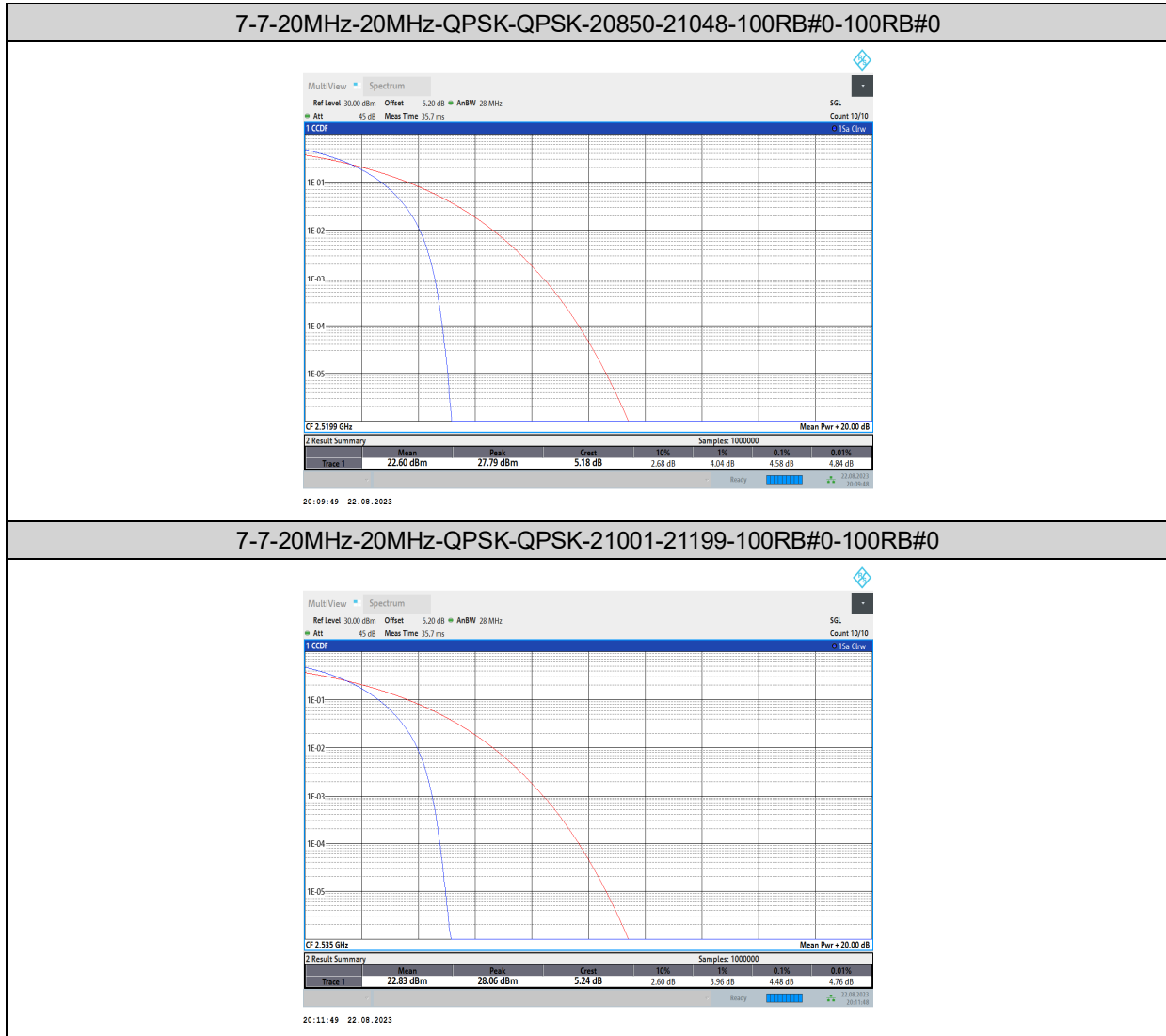


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Test Graphs

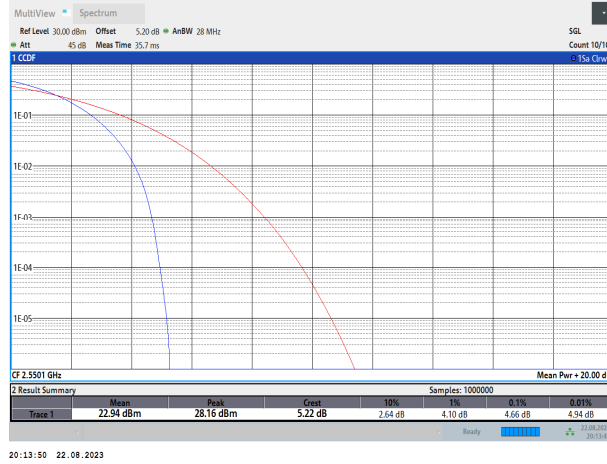


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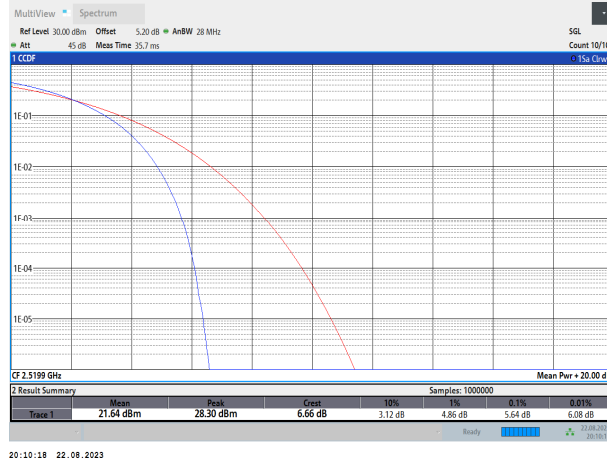
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7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-100RB#0-100RB#0



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

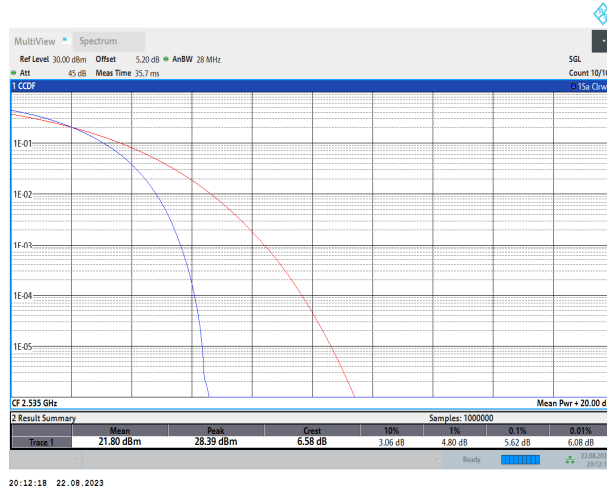


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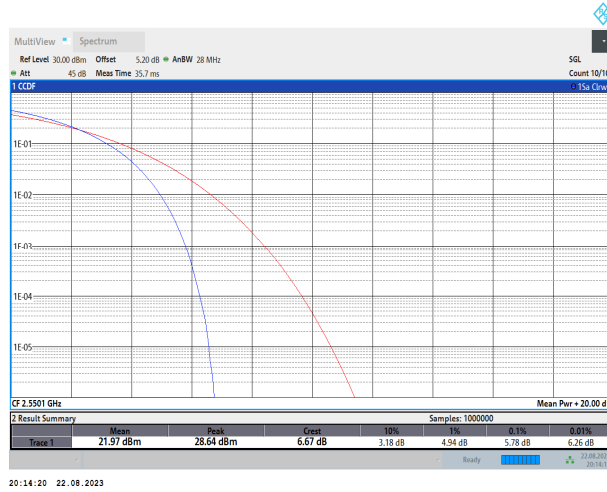
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7-7-20MHz-20MHz-16QAM-16QAM-21001-21199-100RB#0-100RB#0



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

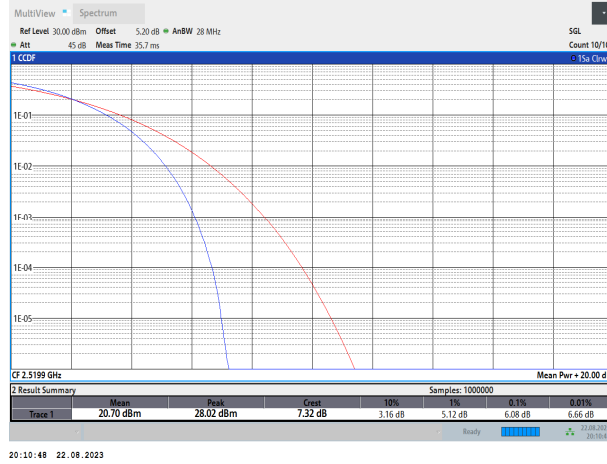


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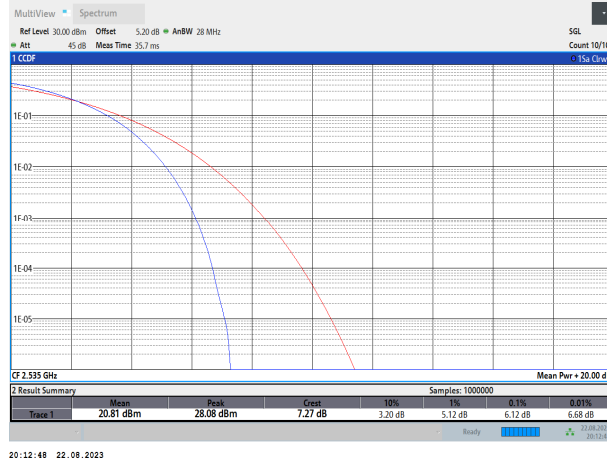
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7-7-20MHz-20MHz-64QAM-64QAM-20850-21048-100RB#0-100RB#0



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

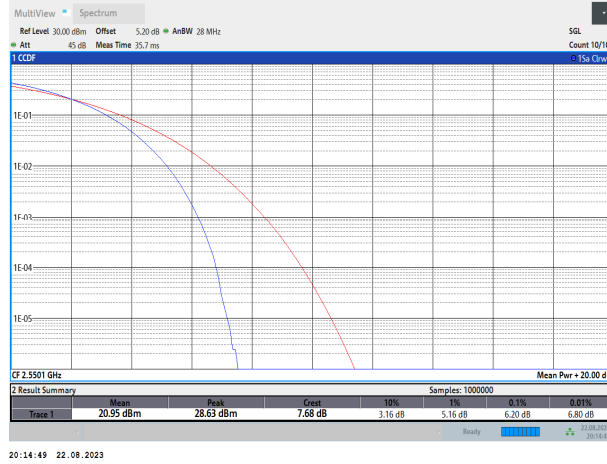


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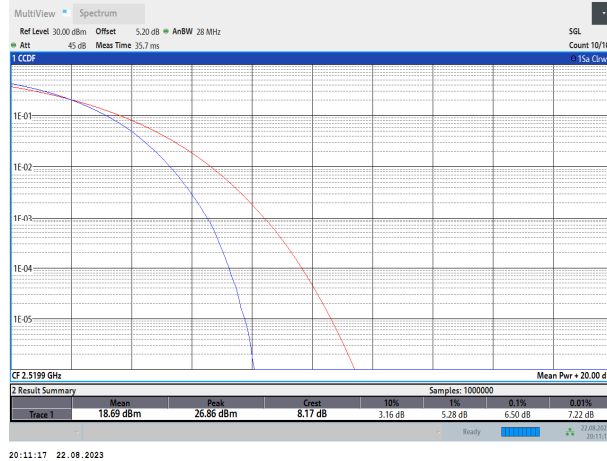
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7-7-20MHz-20MHz-64QAM-64QAM-21152-21350-100RB#0-100RB#0



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

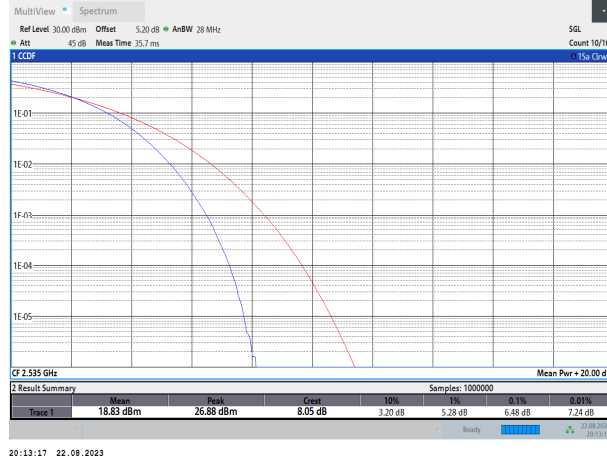


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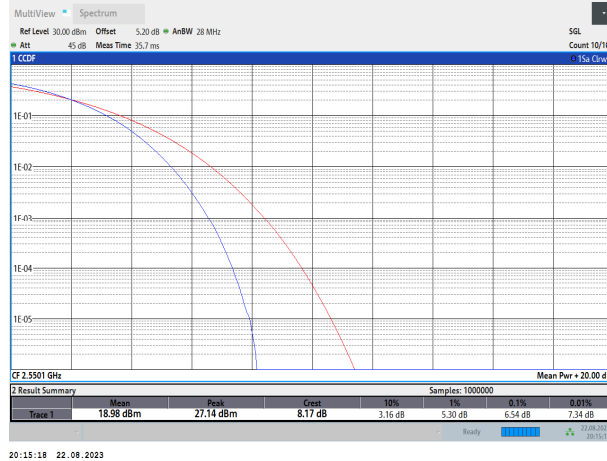
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7-7-20MHz-20MHz-256QAM-256QAM-21001-21199-100RB#0-100RB#0



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	27.698	29.46	PASS
7-7	10MHz-20MHz	16QAM-16QAM	21006-21150	50RB#0-100RB#0	27.699	29.46	PASS
7-7	10MHz-20MHz	64QAM-64QAM	21006-21150	50RB#0-100RB#0	27.741	29.46	PASS
7-7	10MHz-20MHz	256QAM-256QAM	21006-21150	50RB#0-100RB#0	27.759	29.40	PASS
7-7	15MHz-10MHz	QPSK-QPSK	21051-21171	75RB#0-50RB#0	23.126	24.85	PASS
7-7	15MHz-10MHz	16QAM-16QAM	21051-21171	75RB#0-50RB#0	23.158	25.10	PASS
7-7	15MHz-10MHz	64QAM-64QAM	21051-21171	75RB#0-50RB#0	23.169	24.85	PASS
7-7	15MHz-10MHz	256QAM-256QAM	21051-21171	75RB#0-50RB#0	23.135	24.90	PASS
7-7	15MHz-15MHz	QPSK-QPSK	21025-21175	75RB#0-75RB#0	28.329	30.18	PASS
7-7	15MHz-15MHz	16QAM-16QAM	21025-21175	75RB#0-75RB#0	28.314	30.24	PASS
7-7	15MHz-15MHz	64QAM-64QAM	21025-21175	75RB#0-75RB#0	28.288	30.12	PASS
7-7	15MHz-15MHz	256QAM-256QAM	21025-21175	75RB#0-75RB#0	28.298	30.24	PASS
7-7	15MHz-20MHz	QPSK-QPSK	21003-21174	75RB#0-100RB#0	32.573	34.72	PASS
7-7	15MHz-20MHz	16QAM-16QAM	21003-21174	75RB#0-100RB#0	32.521	34.79	PASS
7-7	15MHz-20MHz	64QAM-64QAM	21003-21174	75RB#0-100RB#0	32.596	34.51	PASS
7-7	15MHz-20MHz	256QAM-256QAM	21003-21174	75RB#0-100RB#0	32.639	34.72	PASS
7-7	20MHz-10MHz	QPSK-QPSK	21051-21195	100RB#0-50RB#0	27.77	29.70	PASS
7-7	20MHz-10MHz	16QAM-16QAM	21051-21195	100RB#0-50RB#0	27.729	29.58	PASS
7-7	20MHz-10MHz	64QAM-64QAM	21051-21195	100RB#0-50RB#0	27.788	29.70	PASS
7-7	20MHz-10MHz	256QAM-256QAM	21051-21195	100RB#0-50RB#0	27.709	29.70	PASS
7-7	20MHz-15MHz	QPSK-QPSK	21026-21197	100RB#0-75RB#0	32.615	34.72	PASS
7-7	20MHz-15MHz	16QAM-16QAM	21026-21197	100RB#0-75RB#0	32.624	34.79	PASS
7-7	20MHz-15MHz	64QAM-64QAM	21026-21197	100RB#0-75RB#0	32.668	34.58	PASS
7-7	20MHz-15MHz	256QAM-256QAM	21026-21197	100RB#0-75RB#0	32.608	34.79	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	37.656	40.64	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21001-21199	100RB#0-100RB#0	37.713	40.48	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21001-21199	100RB#0-100RB#0	37.676	40.48	PASS
7-7	20MHz-20MHz	256QAM-256QAM	21001-21199	100RB#0-100RB#0	37.757	40.48	PASS



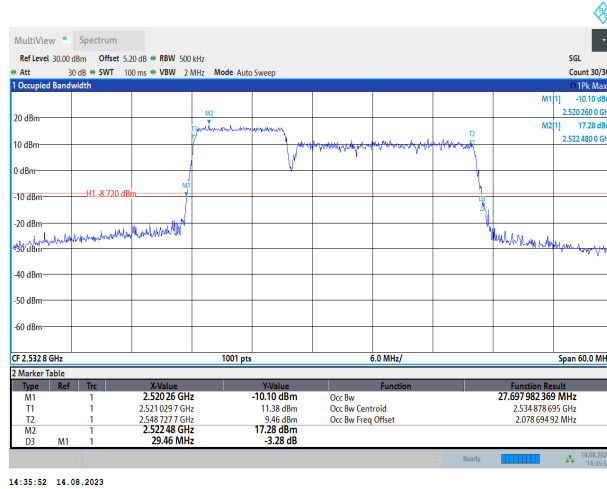
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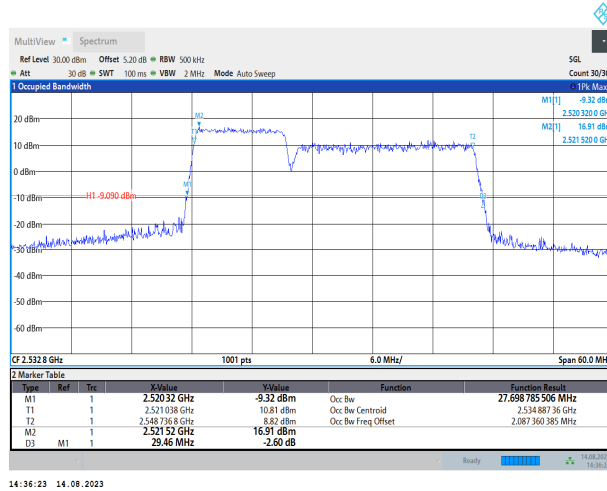
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Test Graphs

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



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

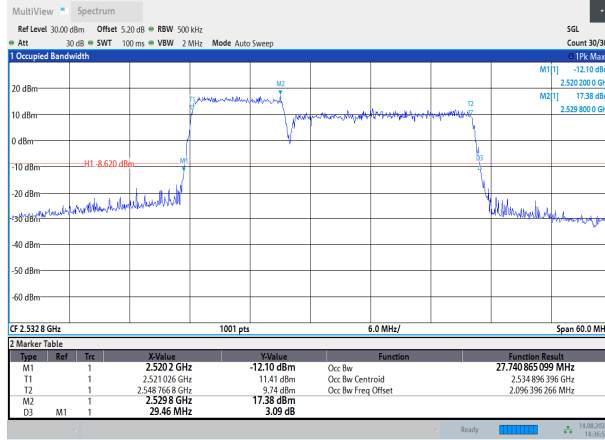


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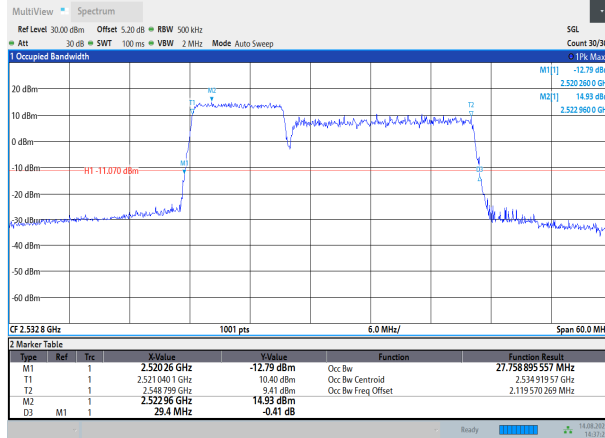
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7-7-10MHz-20MHz-64QAM-64QAM-21006-21150-50RB#0-100RB#0



14:36:55 14.08.2023

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



14:37:27 14.08.2023



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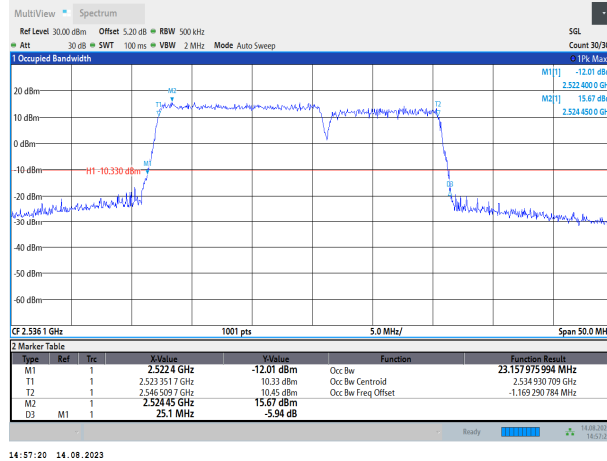
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7-7-15MHz-10MHz-QPSK-QPSK-21051-21171-75RB#0-50RB#0



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

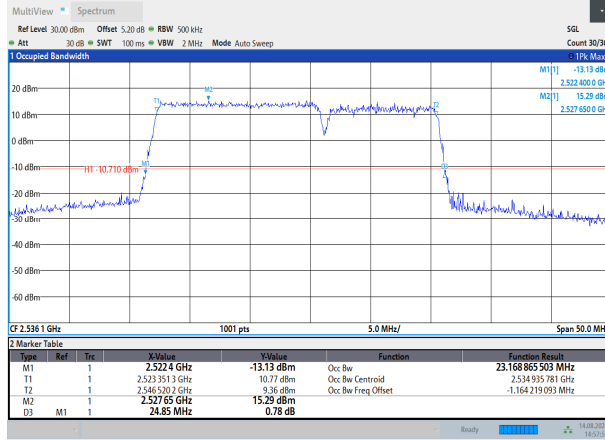


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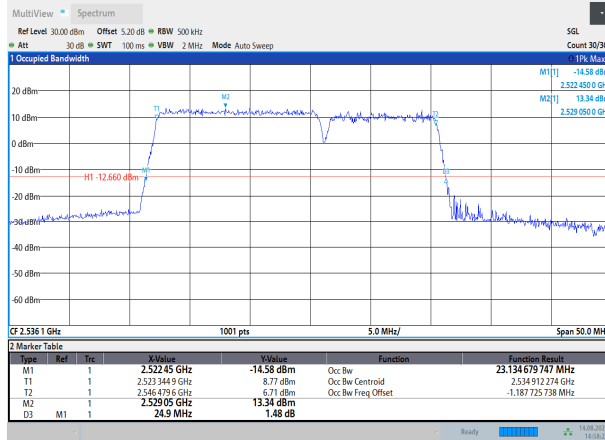
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7-7-15MHz-10MHz-64QAM-64QAM-21051-21171-75RB#0-50RB#0



14:57:52 14.08.2023

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



14:58:24 14.08.2023

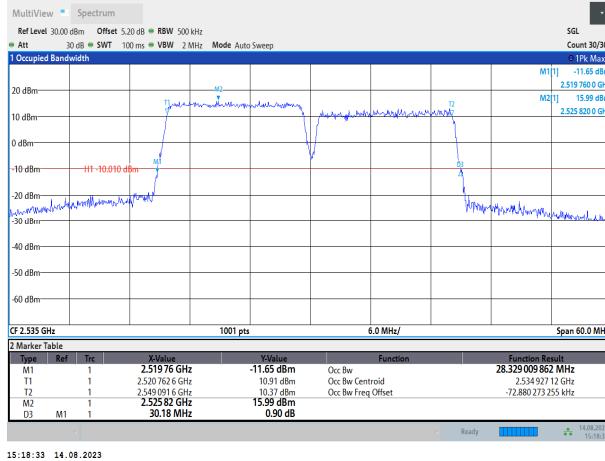


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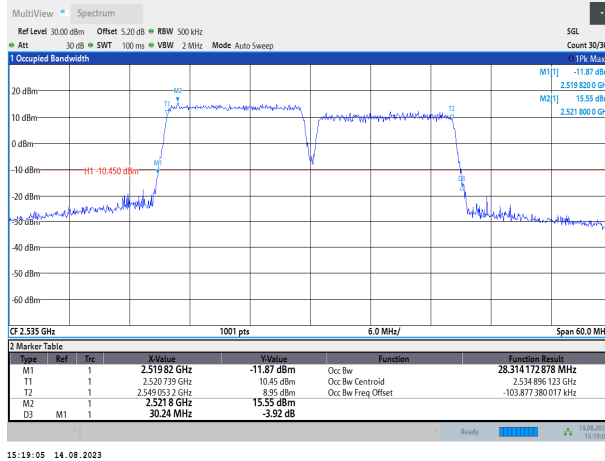
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7-7-15MHz-15MHz-QPSK-QPSK-21025-21175-75RB#0-75RB#0



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

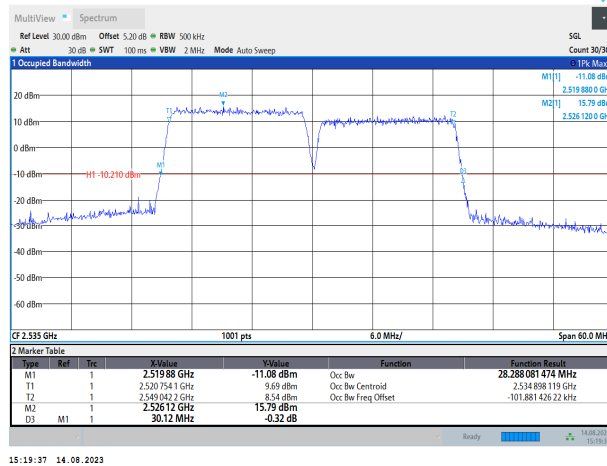


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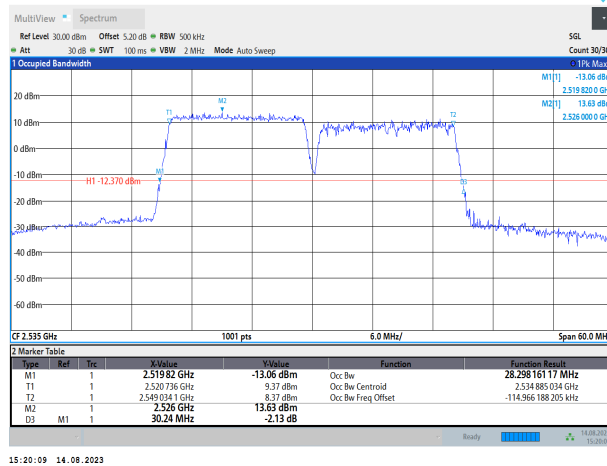
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7-7-15MHz-15MHz-64QAM-64QAM-21025-21175-75RB#0-75RB#0



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

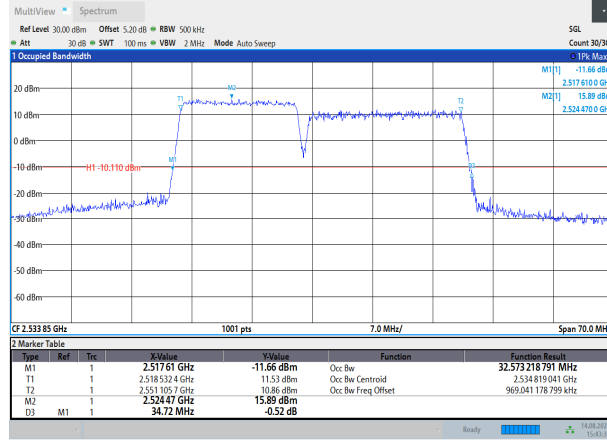


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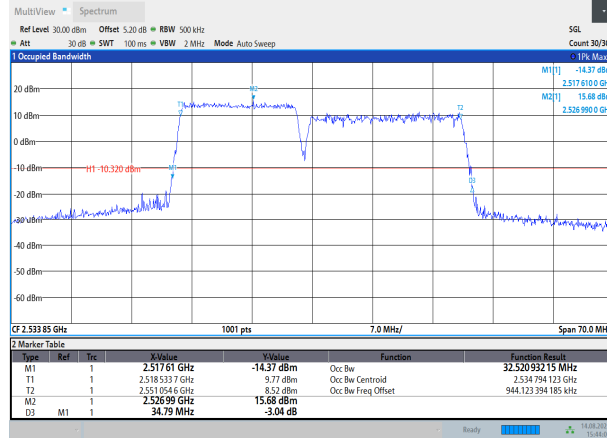
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7-7-15MHz-20MHz-QPSK-QPSK-21003-21174-75RB#0-100RB#0



15:43:34 14.08.2023

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



15:44:06 14.08.2023

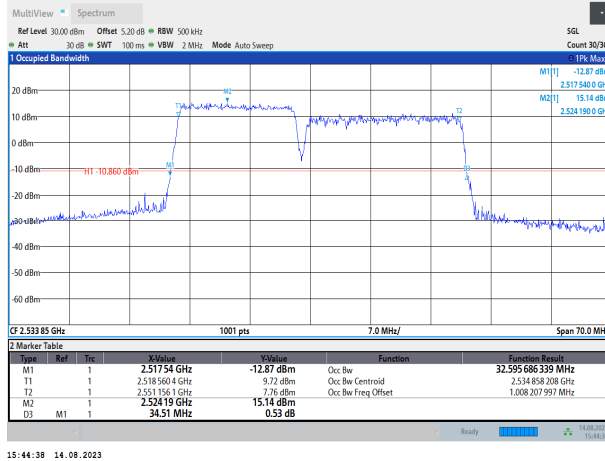


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7-7-15MHz-20MHz-64QAM-64QAM-21003-21174-75RB#0-100RB#0



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

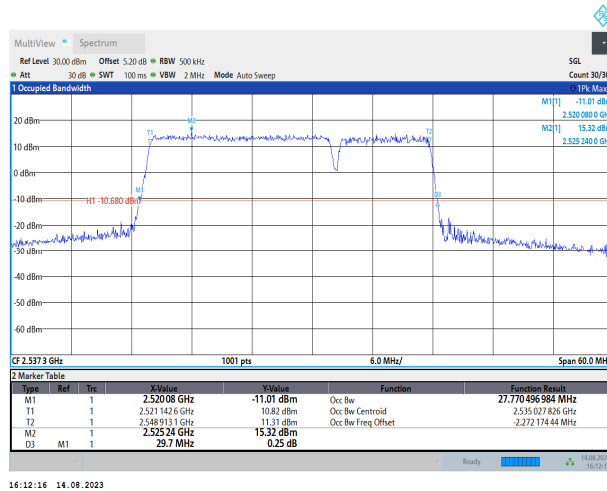


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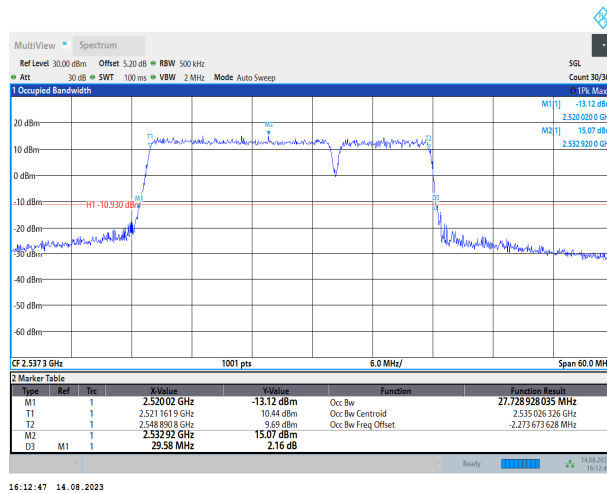
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7-7-20MHz-10MHz-QPSK-QPSK-21051-21195-100RB#0-50RB#0



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

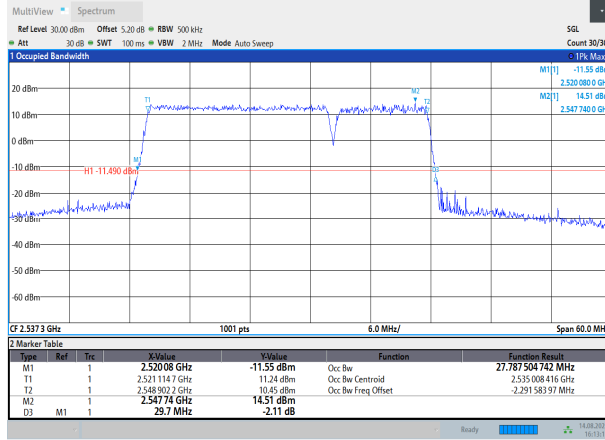


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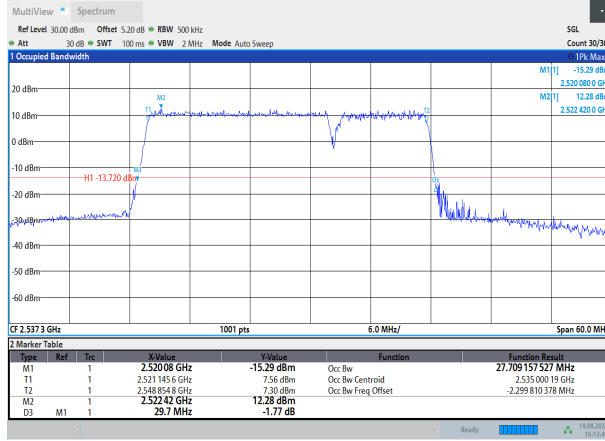
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7-7-20MHz-10MHz-64QAM-64QAM-21051-21195-100RB#0-50RB#0



16:13:19 14. 08. 2023

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16:13:50 14. 08. 2023

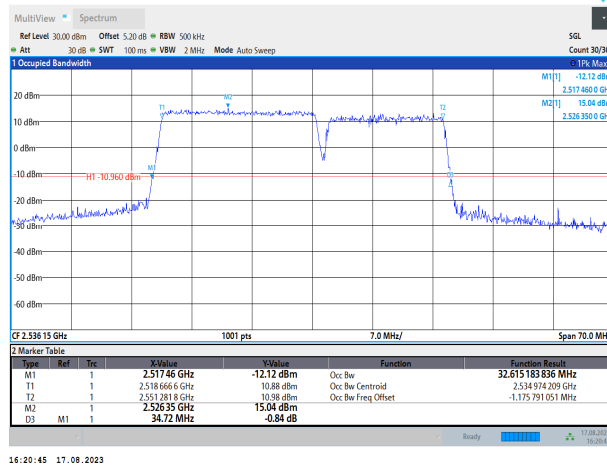


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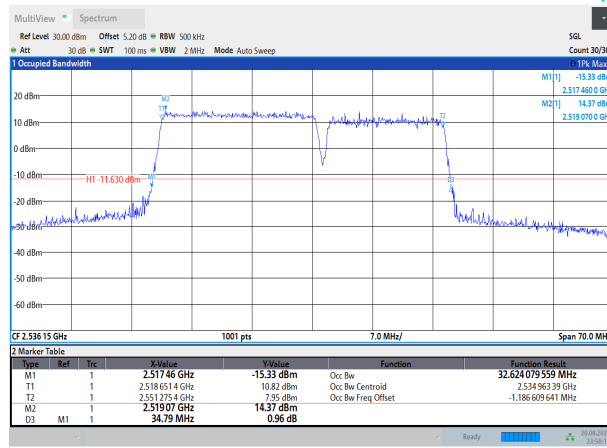
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7-7-20MHz-15MHz-QPSK-QPSK-21026-21197-100RB#0-75RB#0



16:20:45 17.08.2023

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



23:56:18 20.08.2023

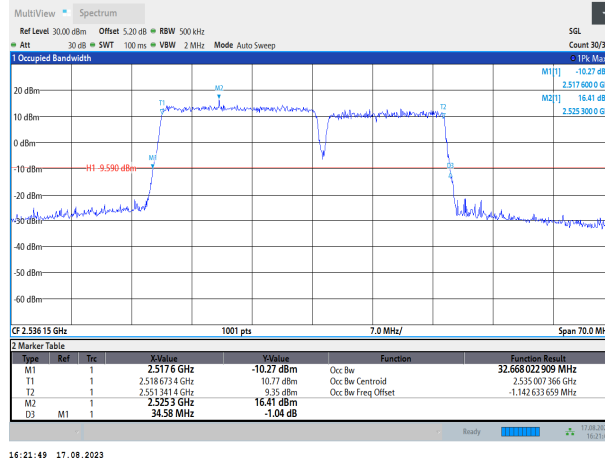


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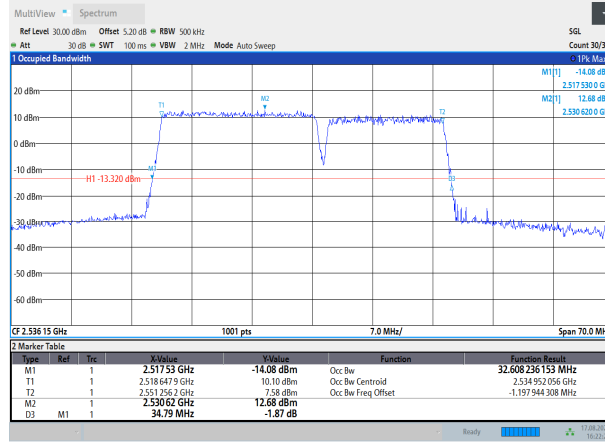
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7-7-20MHz-15MHz-64QAM-64QAM-21026-21197-100RB#0-75RB#0



16:21:49 17.08.2023

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



16:22:21 17.08.2023

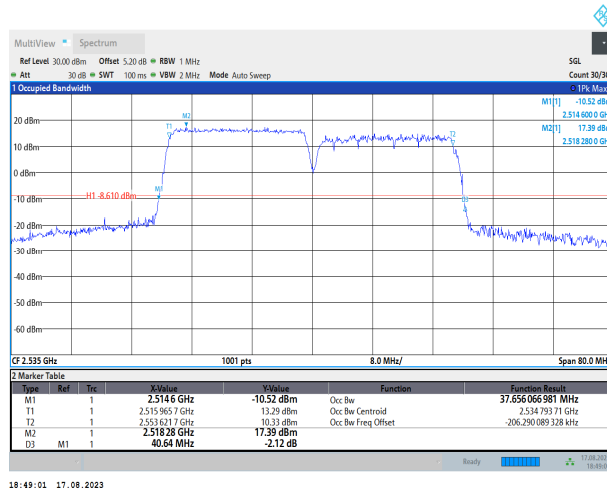


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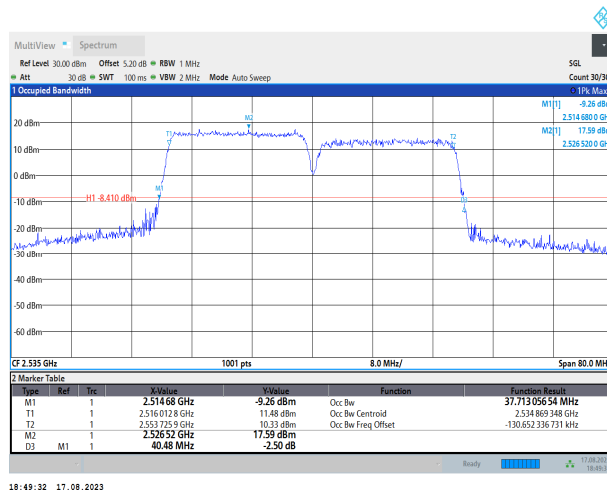
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7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-100RB#0-100RB#0



18:49:01 17.08.2023

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



18:49:32 17.08.2023

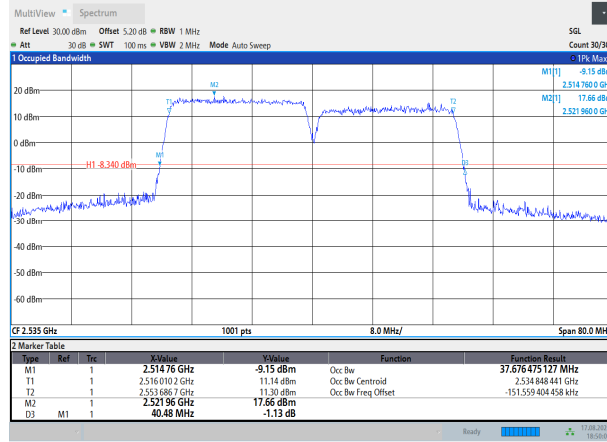


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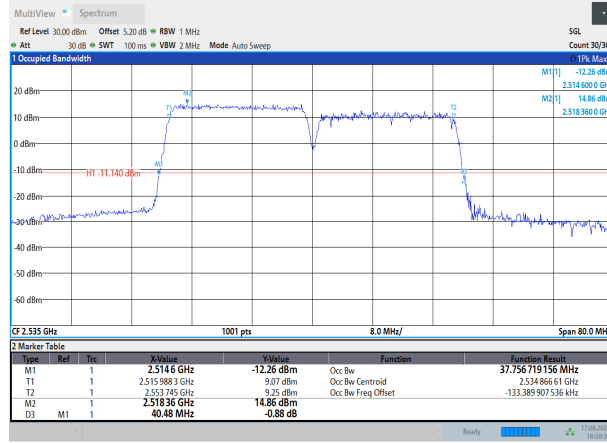
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7-7-20MHz-20MHz-64QAM-64QAM-21001-21199-100RB#0-100RB#0



18:50:04 17.08.2023

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



18:50:35 17.08.2023



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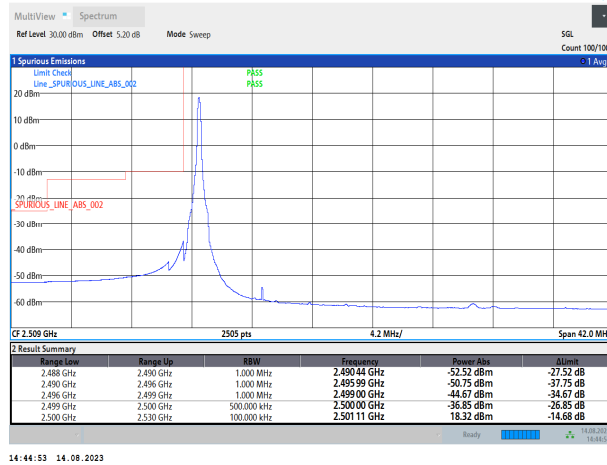
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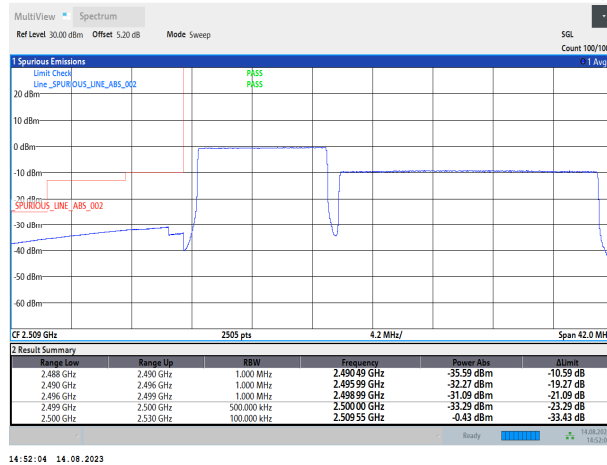
Band Edge

Test Graphs

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



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

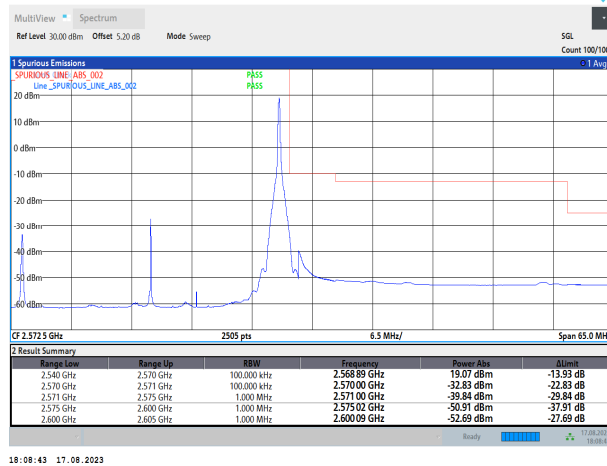


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7-7-10MHz-20MHz-QPSK-QPSK-21206-21350-0RB#0-1RB#99



18:08:43 17.08.2023

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



18:15:54 17.08.2023

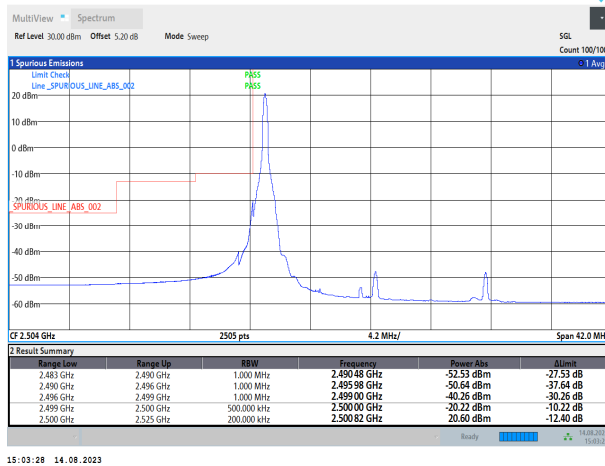


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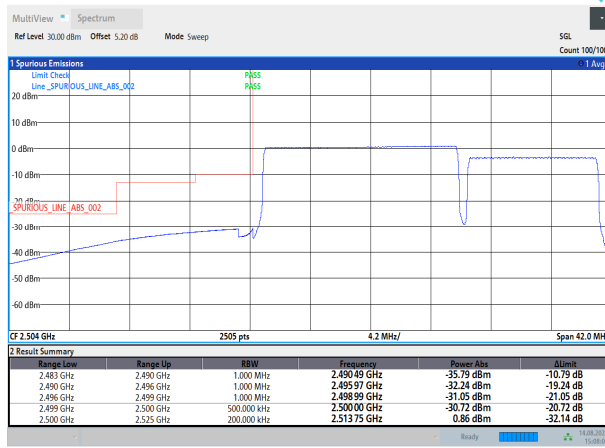
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7-7-15MHz-10MHz-QPSK-QPSK-20825-20945-1RB#0-0RB#0



15:03:28 14.08.2023

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



15:08:09 14.08.2023

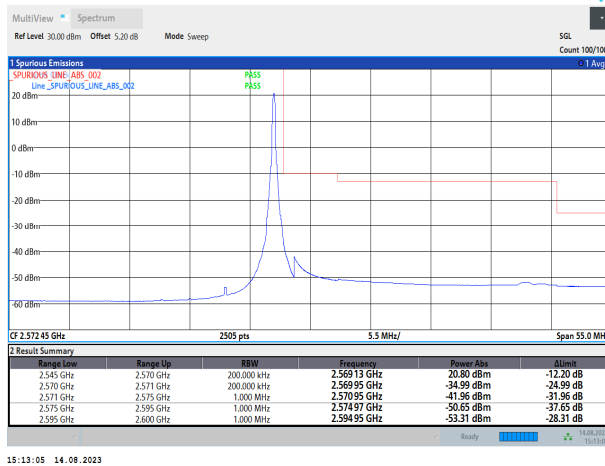


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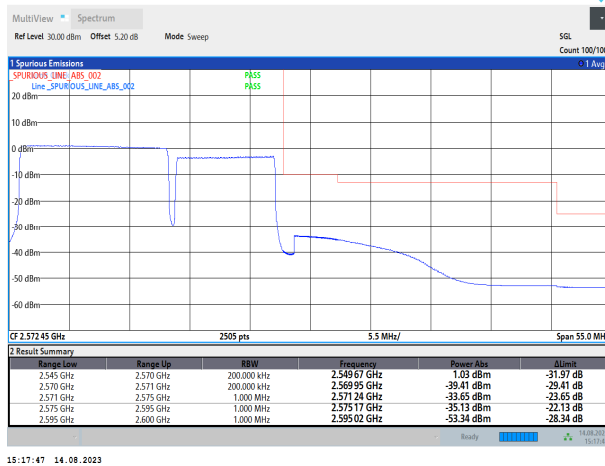
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7-7-15MHz-10MHz-QPSK-QPSK-21277-21397-0RB#0-1RB#49



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

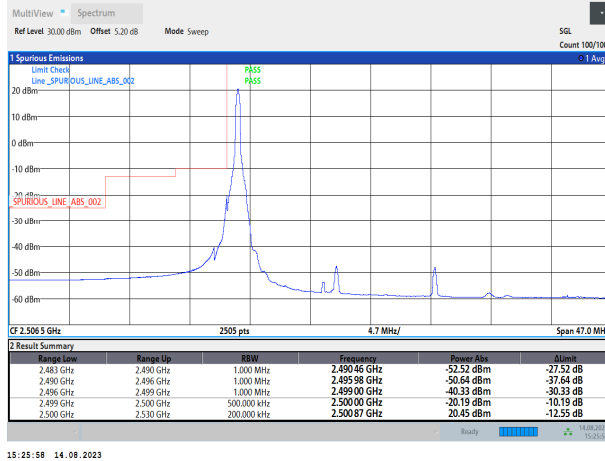


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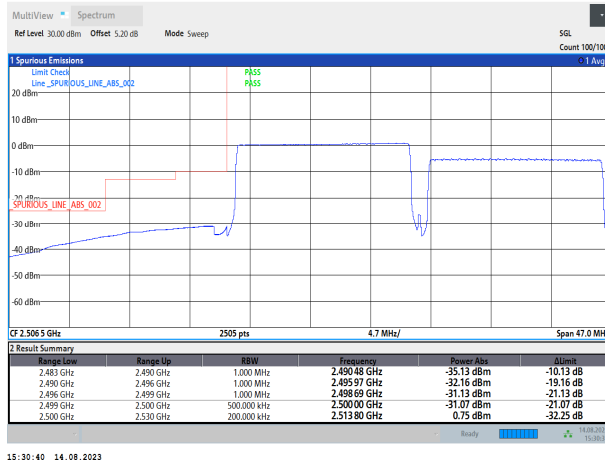
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7-7-15MHz-15MHz-QPSK-QPSK-20825-20975-1RB#0-0RB#0



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

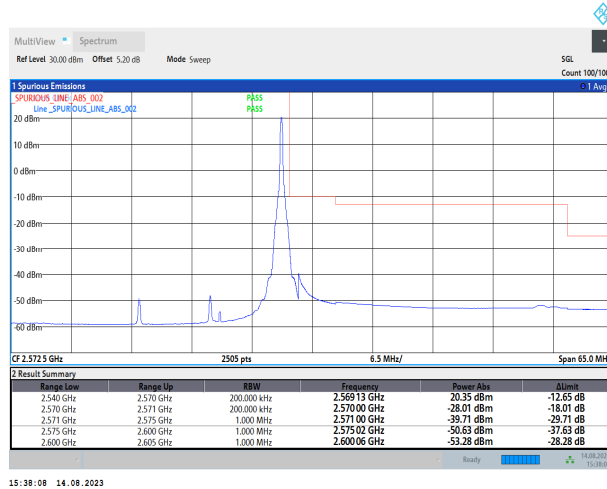


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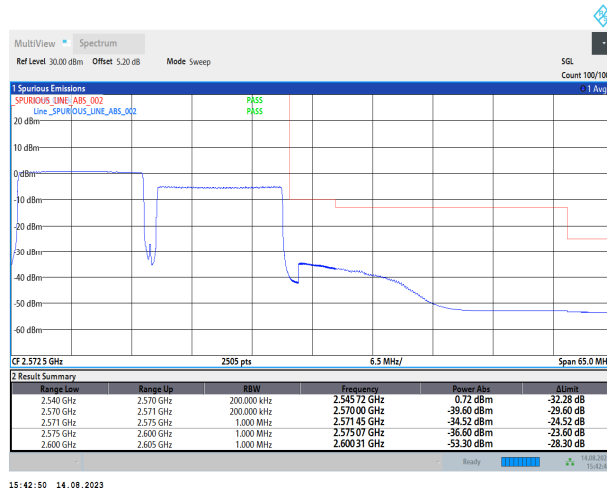
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7-7-15MHz-15MHz-QPSK-QPSK-21225-21375-0RB#0-1RB#74



7-7-15MHz-15MHz-QPSK-QPSK-21225-21375-75RB#0-75RB#0

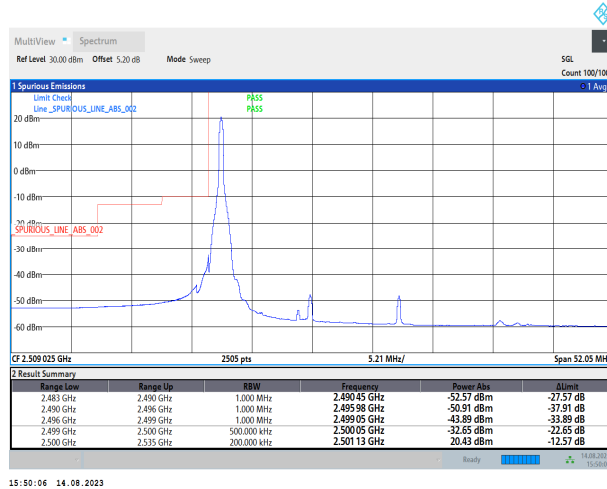


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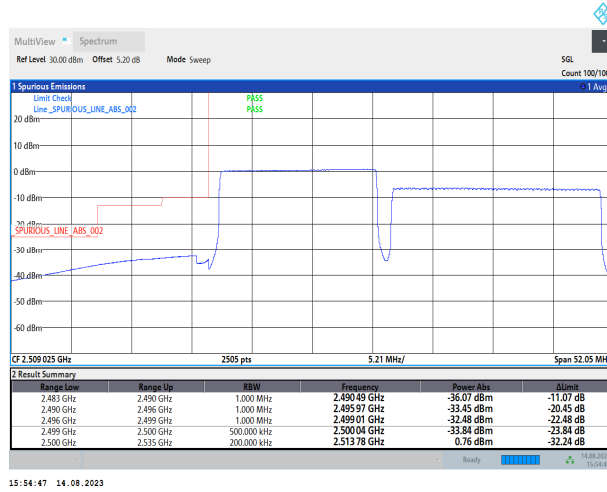
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7-7-15MHz-20MHz-QPSK-QPSK-20828-20999-75RB#0-100RB#0

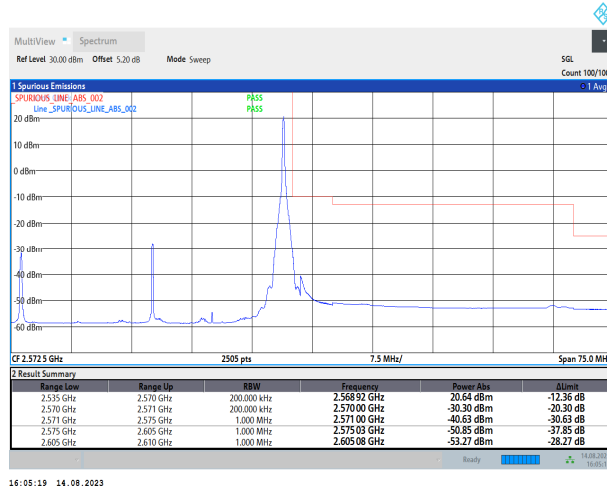


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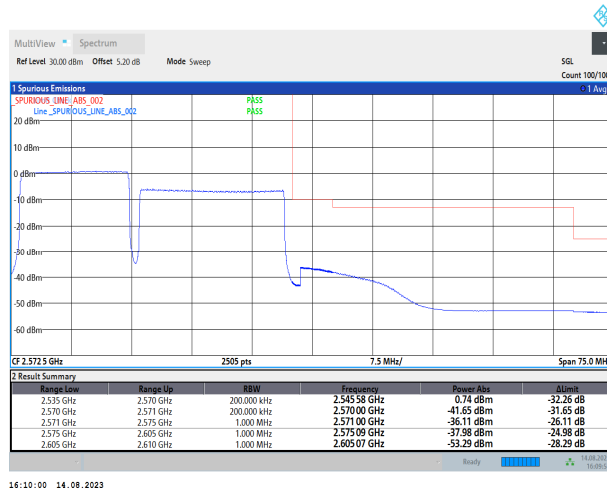
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7-7-15MHz-20MHz-QPSK-QPSK-21179-21350-75RB#0-100RB#0

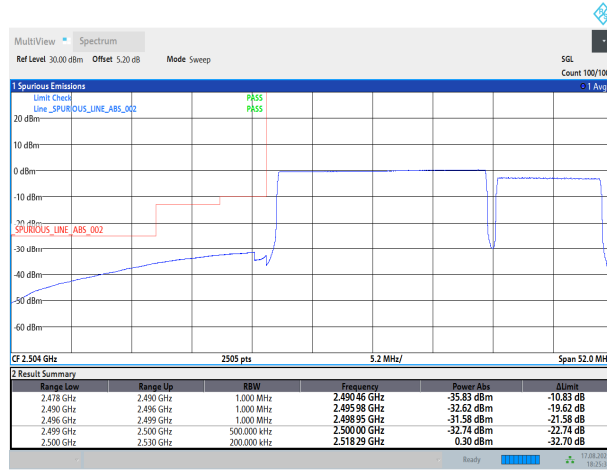


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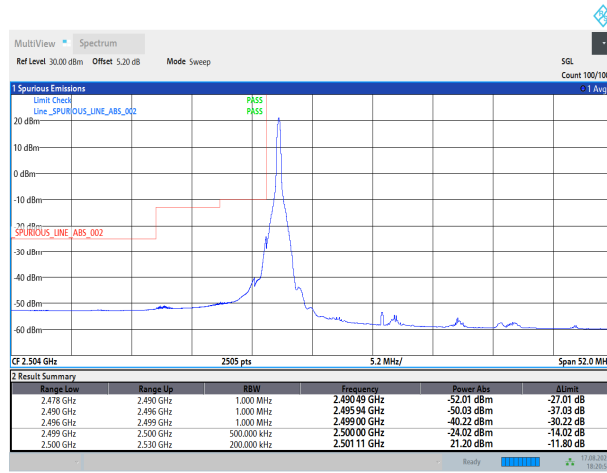
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7-7-20MHz-10MHz-QPSK-QPSK-20850-20994-100RB#0-50RB#0



18:25:40 17.08.2023

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



18:20:58 17.08.2023

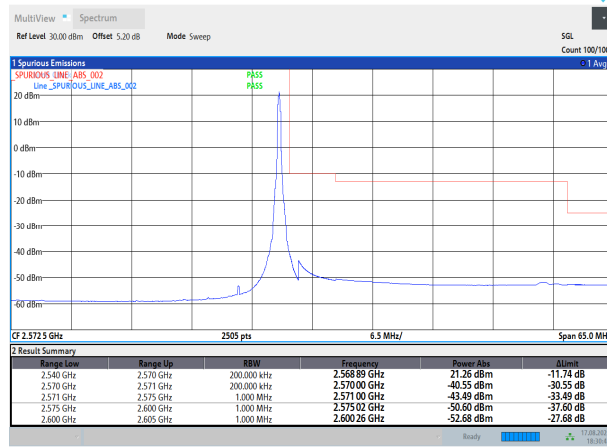


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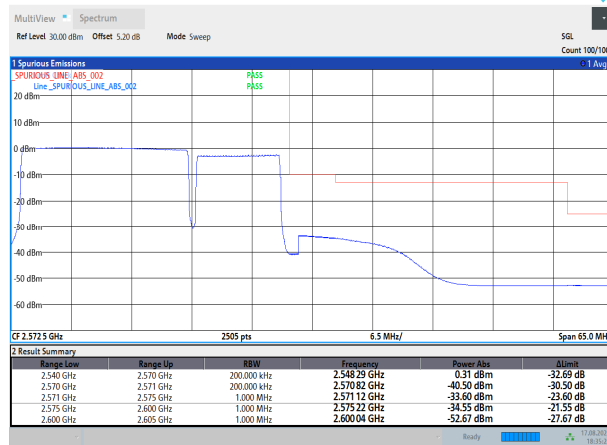
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7-7-20MHz-10MHz-QPSK-QPSK-21251-21395-0RB#0-1RB#49



18:30:44 17.08.2023

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



18:35:25 17.08.2023

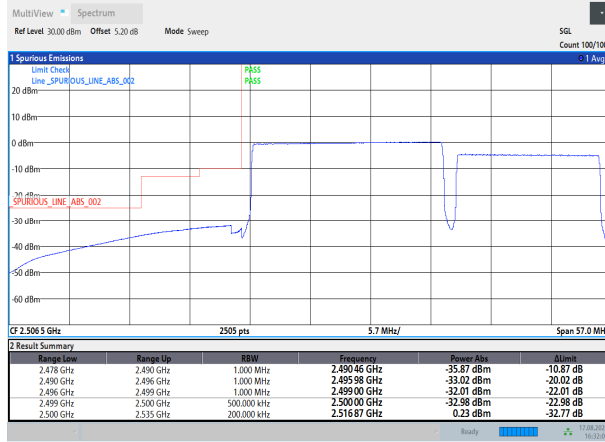


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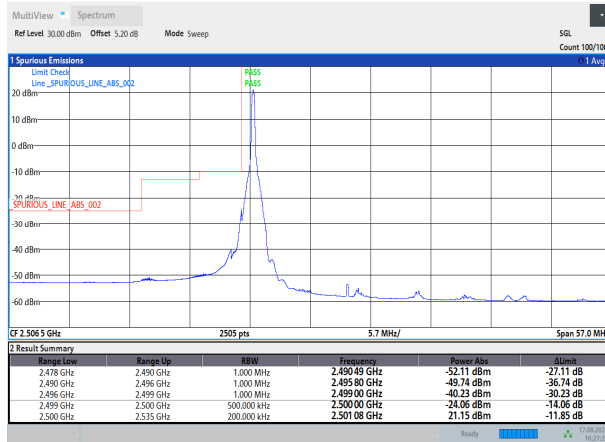
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7-7-20MHz-15MHz-QPSK-QPSK-20850-21021-100RB#0-75RB#0



16:32:09 17.08.2023

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



16:27:28 17.08.2023

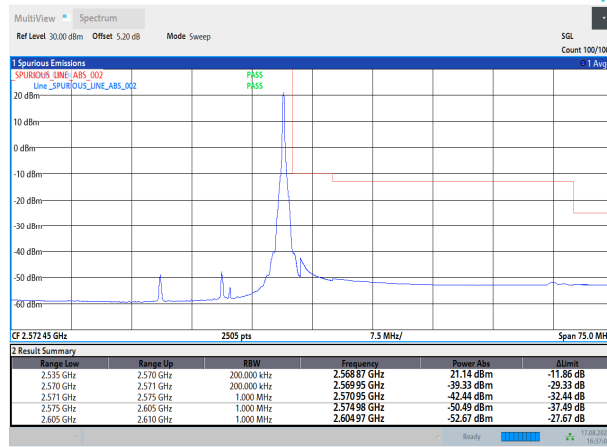


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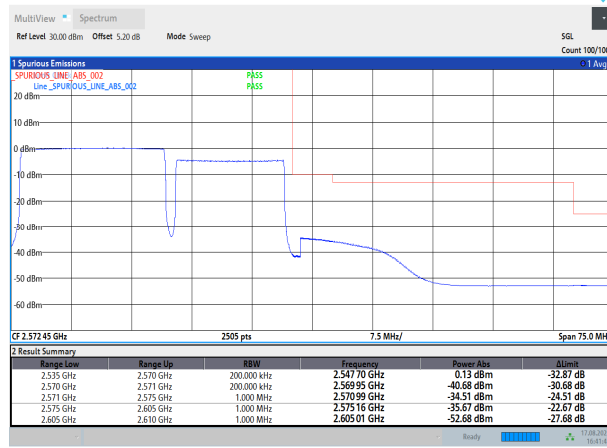
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7-7-20MHz-15MHz-QPSK-QPSK-21201-21372-0RB#0-1RB#74



16:37:05 17.08.2023

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



16:41:46 17.08.2023

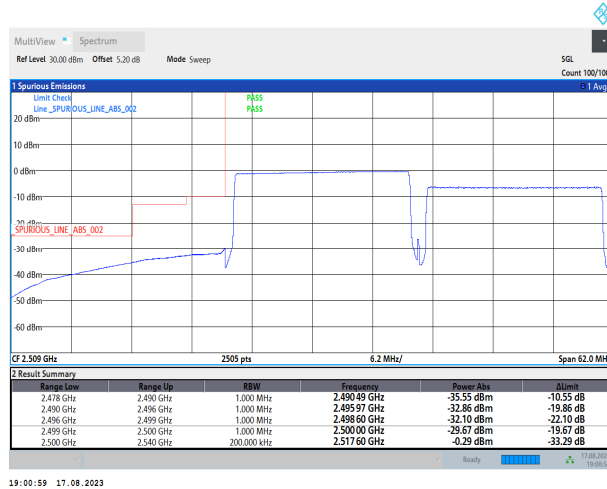


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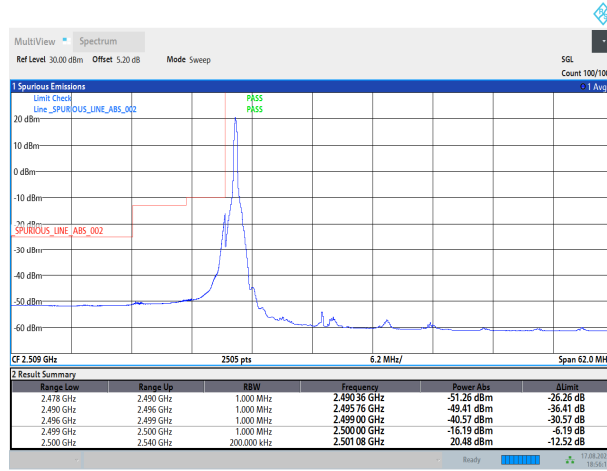
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7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-100RB#0-100RB#0



19:00:59 17.08.2023

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



18:56:18 17.08.2023

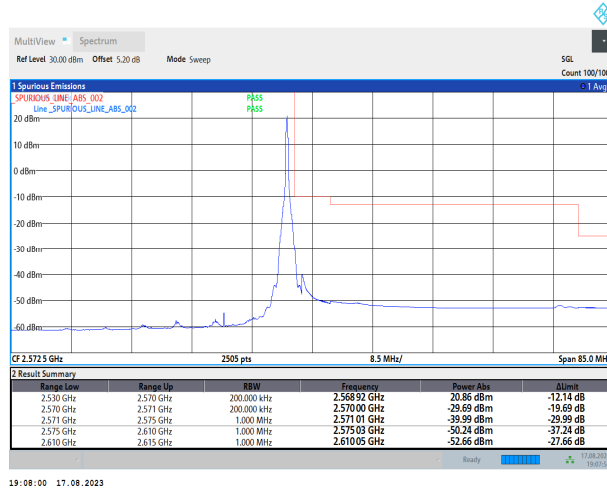


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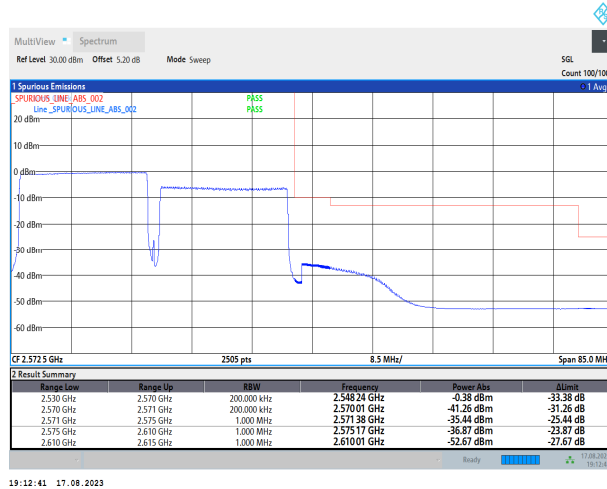
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7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-0RB#0-1RB#99



19:08:00 17.08.2023

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



19:12:41 17.08.2023



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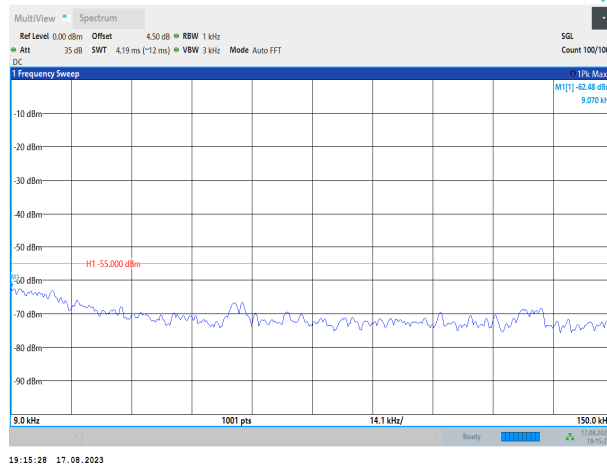
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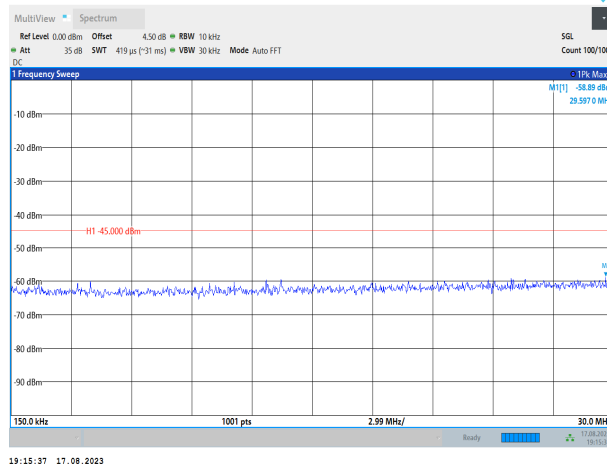
Conducted Spurious Emission

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

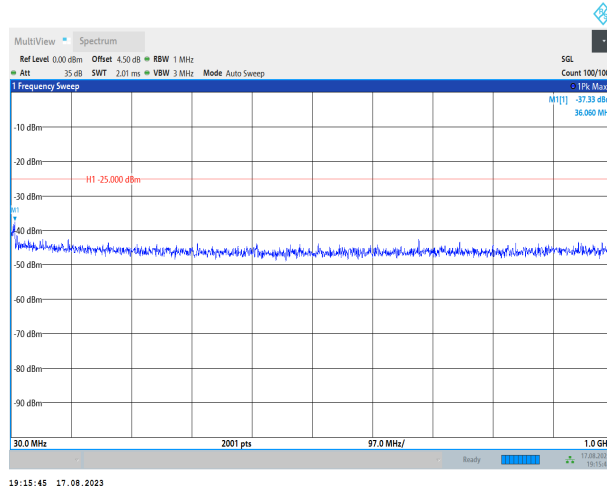


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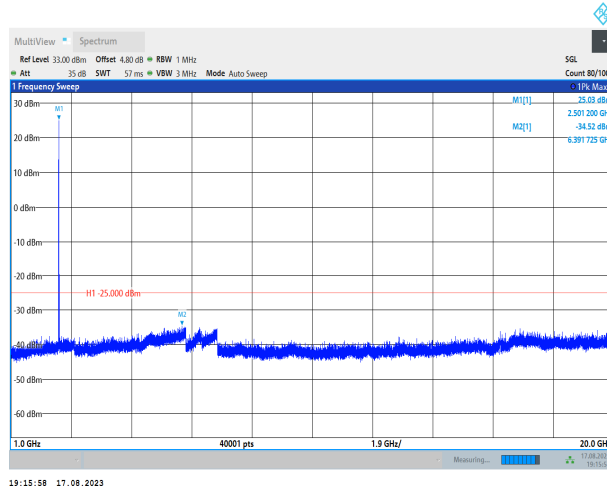
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7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-1RB#0-0RB#0-30~1000MHz



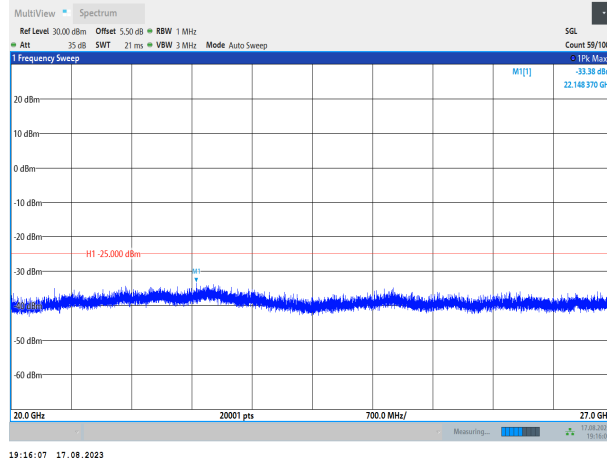
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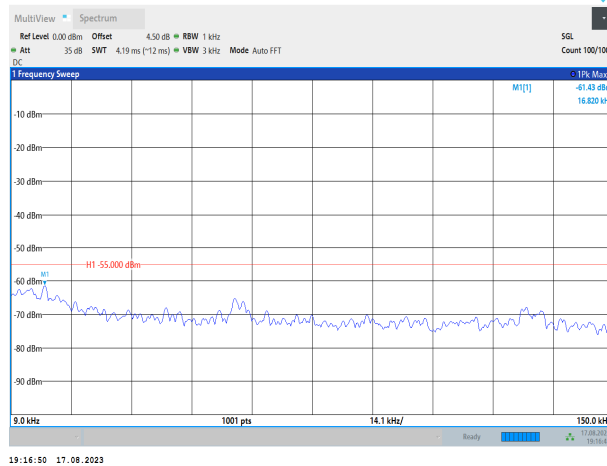
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7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-1RB#0-0RB#0-20000~27000MHz



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

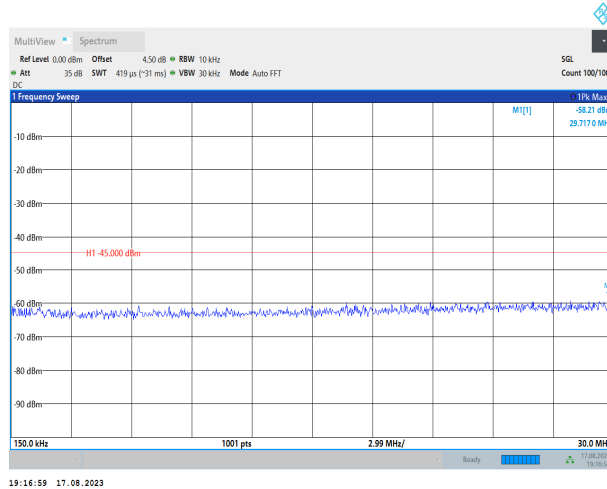


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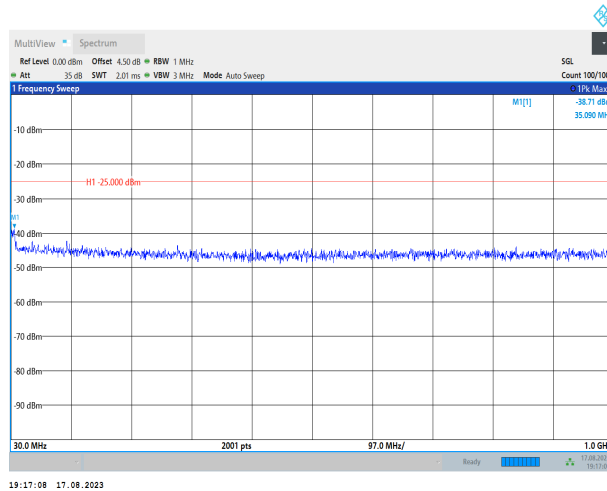
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7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-1RB#0-0RB#0-0.15~30MHz



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

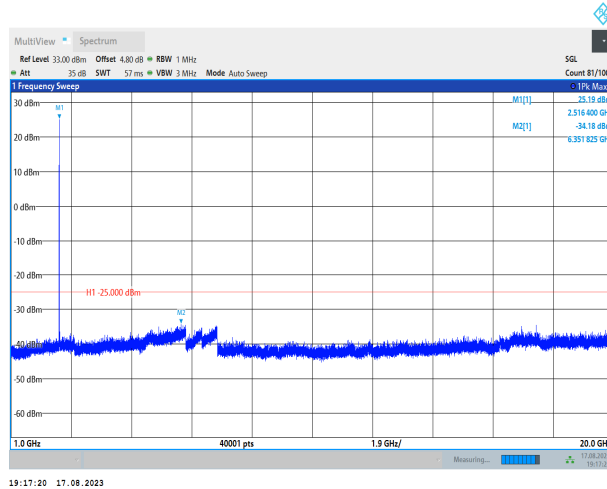


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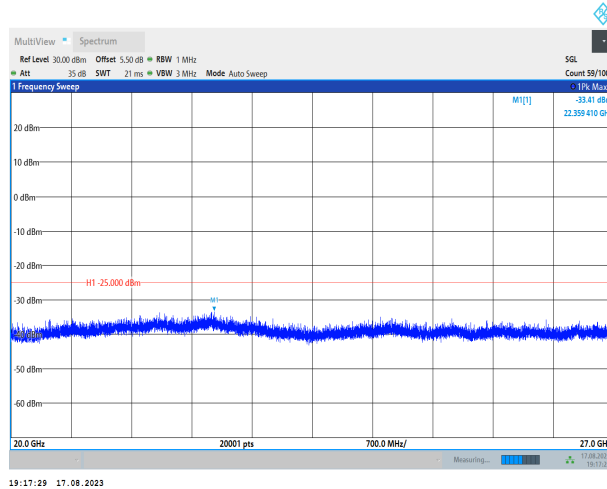
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7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-1RB#0-0RB#0-1000~20000MHz



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

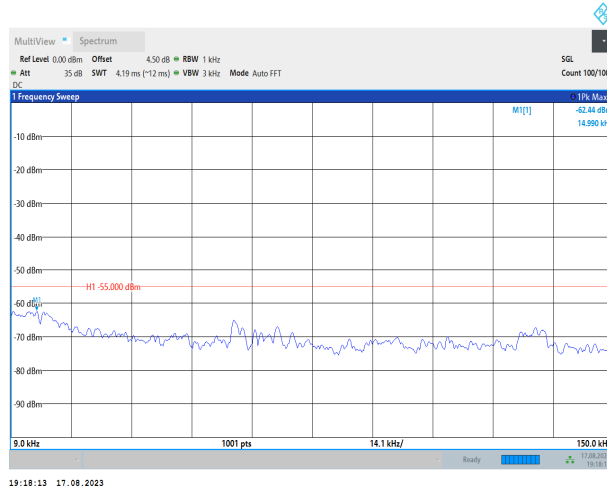


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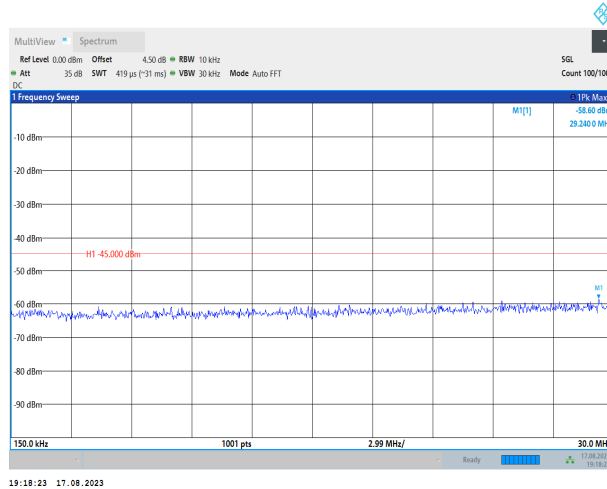
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7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-1RB#0-0RB#0-0.009~0.15MHz



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

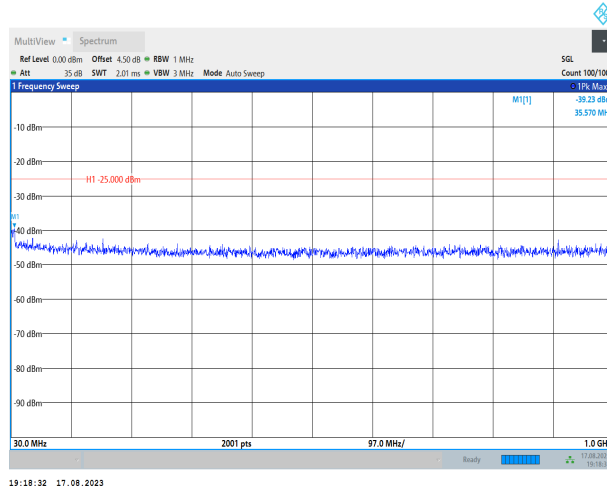


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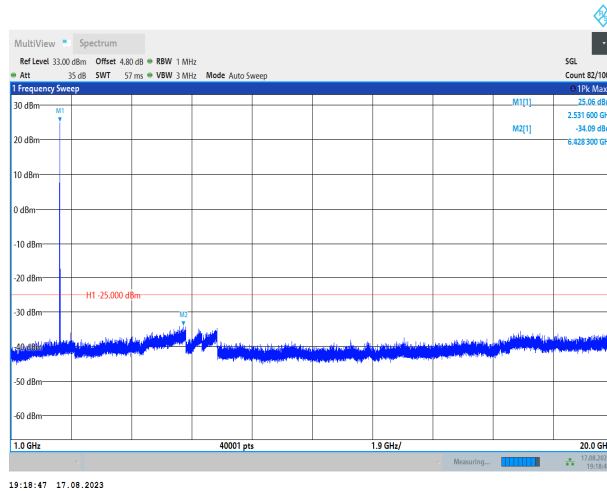
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7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-1RB#0-0RB#0-30~1000MHz



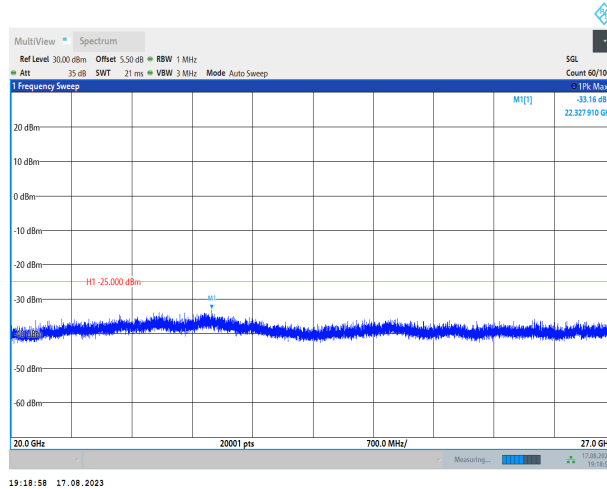
7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-1RB#0-0RB#0-1000~20000MHz



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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 Band7_CA_TM1

Test Channel = Low ANT2

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3967.5	42.63	-46.12	29.07	-69.68	-25.00	44.68	248	86	Horizontal
2	5445.75	41.55	-45.27	32.47	-66.51	-25.00	41.51	175	97	Horizontal
3	6665.25	40.78	-44.00	34.60	-63.88	-25.00	38.88	163	222	Horizontal
4	8386.5	39.39	-41.53	36.61	-60.79	-25.00	35.79	256	109	Horizontal
5	10063.5	35.76	-39.16	38.23	-60.43	-25.00	35.43	166	222	Horizontal
6	12659.25	34.40	-37.06	39.00	-58.93	-25.00	33.93	112	312	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	4230.75	41.58	-45.70	29.65	-69.73	-25.00	44.73	186	69	Vertical
2	5403.75	41.40	-45.30	32.37	-66.79	-25.00	41.79	259	116	Vertical
3	7403.25	40.59	-43.40	36.33	-61.74	-25.00	36.74	146	4	Vertical
4	8859	38.43	-41.24	36.37	-61.70	-25.00	36.70	166	308	Vertical
5	12076.5	34.24	-37.41	38.82	-59.61	-25.00	34.61	254	360	Vertical
6	12717	34.12	-36.71	39.02	-58.83	-25.00	33.83	172	14	Vertical



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Test Band = LTE Band7_CA_TM1

Test Channel = Mid ANT2

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	40.91	-45.55	31.48	-68.42	-25.00	43.42	244	140	Horizontal
2	7548.2700	39.80	-43.04	36.62	-61.88	-25.00	36.88	125	8	Horizontal
3	10064.7600	36.84	-39.16	38.23	-59.35	-25.00	34.35	156	276	Horizontal
4	12580.9500	33.89	-37.49	38.97	-59.89	-25.00	34.89	136	18	Horizontal
5	15097.1400	33.50	-34.94	41.10	-55.61	-25.00	30.61	259	304	Horizontal
6	17613.3300	30.80	-33.34	45.06	-52.74	-25.00	27.74	185	357	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	41.13	-45.55	31.48	-68.20	-25.00	43.20	144	56	Vertical
2	7548.2700	41.02	-43.04	36.62	-60.66	-25.00	35.66	158	123	Vertical
3	10064.7600	35.63	-39.16	38.23	-60.56	-25.00	35.56	176	123	Vertical
4	12580.9500	34.64	-37.49	38.97	-59.14	-25.00	34.14	261	287	Vertical
5	15097.1400	32.08	-34.94	41.10	-57.03	-25.00	32.03	145	231	Vertical
6	17613.3300	31.77	-33.34	45.06	-51.77	-25.00	26.77	186	299	Vertical



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Test Band = LTE Band7_CA_TM1

Test Channel = High ANT2

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5062.5800	42.09	-45.47	31.55	-67.09	-25.00	42.09	211	18	Horizontal
2	7593.8700	39.38	-42.94	36.64	-62.19	-25.00	37.19	153	1	Horizontal
3	10125.1600	35.75	-39.22	38.26	-60.46	-25.00	35.46	230	1	Horizontal
4	12656.4500	34.51	-37.09	39.00	-58.84	-25.00	33.84	120	114	Horizontal
5	15187.7400	33.15	-34.04	40.91	-55.25	-25.00	30.25	150	86	Horizontal
6	17719.0300	31.99	-34.15	45.54	-51.88	-25.00	26.88	148	73	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	5062.5800	41.27	-45.47	31.55	-67.91	-25.00	42.91	224	84	Vertical
2	7593.8700	39.16	-42.94	36.64	-62.41	-25.00	37.41	166	206	Vertical
3	10125.1600	35.45	-39.22	38.26	-60.76	-25.00	35.76	187	97	Vertical
4	12656.4500	34.91	-37.09	39.00	-58.44	-25.00	33.44	145	42	Vertical
5	15187.7400	31.58	-34.04	40.91	-56.82	-25.00	31.82	172	69	Vertical
6	17719.0300	32.10	-34.15	45.54	-51.77	-25.00	26.77	133	360	Vertical



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Test Band = LTE Band7_CA_TM1

Test Channel = Low ANT3

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	41.74	-45.63	31.41	-67.75	-25.00	42.75	222	223	Horizontal
2	7503.2700	41.08	-43.13	36.60	-60.71	-25.00	35.71	155	236	Horizontal
3	10004.3600	36.05	-39.23	38.20	-60.24	-25.00	35.24	140	126	Horizontal
4	12505.4500	33.87	-36.99	38.95	-59.43	-25.00	34.43	136	0	Horizontal
5	15006.5400	32.67	-34.65	41.29	-55.96	-25.00	30.96	259	330	Horizontal
6	17507.6300	31.75	-34.95	44.59	-53.87	-25.00	28.87	182	250	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	41.88	-45.63	31.41	-67.61	-25.00	42.61	244	58	Vertical
2	7503.2700	40.70	-43.13	36.60	-61.09	-25.00	36.09	158	316	Vertical
3	10004.3600	35.69	-39.23	38.20	-60.60	-25.00	35.60	172	44	Vertical
4	12505.4500	35.14	-36.99	38.95	-58.16	-25.00	33.16	130	126	Vertical
5	15006.5400	32.96	-34.65	41.29	-55.67	-25.00	30.67	125	360	Vertical
6	17507.6300	32.17	-34.95	44.59	-53.45	-25.00	28.45	186	303	Vertical



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Test Band = LTE Band7_CA_TM1

Test Channel = Mid ANT3

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	41.05	-45.55	31.48	-68.28	-25.00	43.28	241	208	Horizontal
2	7548.2700	40.07	-43.04	36.62	-61.61	-25.00	36.61	156	2	Horizontal
3	10064.7600	36.07	-39.16	38.23	-60.12	-25.00	35.12	182	290	Horizontal
4	12580.9500	34.27	-37.49	38.97	-59.51	-25.00	34.51	177	276	Horizontal
5	15097.1400	32.84	-34.94	41.10	-56.27	-25.00	31.27	146	58	Horizontal
6	17613.3300	31.55	-33.34	45.06	-51.99	-25.00	26.99	223	71	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	41.07	-45.55	31.48	-68.26	-25.00	43.26	258	4	Vertical
2	7548.2700	39.41	-43.04	36.62	-62.27	-25.00	37.27	147	179	Vertical
3	10064.7600	36.18	-39.16	38.23	-60.01	-25.00	35.01	186	351	Vertical
4	12580.9500	34.23	-37.49	38.97	-59.55	-25.00	34.55	211	351	Vertical
5	15097.1400	34.09	-34.94	41.10	-55.02	-25.00	30.02	159	16	Vertical
6	17613.3300	30.98	-33.34	45.06	-52.56	-25.00	27.56	146	166	Vertical



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Test Band = LTE Band7_CA_TM1

Test Channel = High ANT3

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5062.5800	41.79	-45.47	31.55	-67.39	-25.00	42.39	284	249	Horizontal
2	7593.8700	39.50	-42.94	36.64	-62.07	-25.00	37.07	175	58	Horizontal
3	10125.1600	35.85	-39.22	38.26	-60.36	-25.00	35.36	146	0	Horizontal
4	12656.4500	34.87	-37.09	39.00	-58.48	-25.00	33.48	123	276	Horizontal
5	15187.7400	32.27	-34.04	40.91	-56.13	-25.00	31.13	261	195	Horizontal
6	17719.0300	32.00	-34.15	45.54	-51.87	-25.00	26.87	199	0	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	5062.5800	41.65	-45.47	31.55	-67.53	-25.00	42.53	244	126	Vertical
2	7593.8700	38.97	-42.94	36.64	-62.60	-25.00	37.60	126	359	Vertical
3	10125.1600	35.31	-39.22	38.26	-60.90	-25.00	35.90	235	16	Vertical
4	12656.4500	35.00	-37.09	39.00	-58.35	-25.00	33.35	188	234	Vertical
5	15187.7400	32.41	-34.04	40.91	-55.99	-25.00	30.99	174	358	Vertical
6	17719.0300	32.06	-34.15	45.54	-51.81	-25.00	26.81	156	111	Vertical



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Test Band = LTE Band7_CA_TM1

Test Channel = Low ANT4

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	41.08	-45.63	31.41	-68.41	-25.00	43.41	244	45	Horizontal
2	7503.2700	39.78	-43.13	36.60	-62.01	-25.00	37.01	126	357	Horizontal
3	10004.3600	36.42	-39.23	38.20	-59.87	-25.00	34.87	251	250	Horizontal
4	12505.4500	33.77	-36.99	38.95	-59.53	-25.00	34.53	153	304	Horizontal
5	15006.5400	33.45	-34.65	41.29	-55.18	-25.00	30.18	166	9	Horizontal
6	17507.6300	32.69	-34.95	44.59	-52.93	-25.00	27.93	138	291	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	41.90	-45.63	31.41	-67.59	-25.00	42.59	277	126	Vertical
2	7503.2700	40.49	-43.13	36.60	-61.30	-25.00	36.30	142	111	Vertical
3	10004.3600	36.13	-39.23	38.20	-60.16	-25.00	35.16	156	166	Vertical
4	12505.4500	34.37	-36.99	38.95	-58.93	-25.00	33.93	126	360	Vertical
5	15006.5400	32.64	-34.65	41.29	-55.99	-25.00	30.99	138	358	Vertical
6	17507.6300	32.78	-34.95	44.59	-52.84	-25.00	27.84	199	342	Vertical



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Test Band = LTE Band7_CA_TM1

Test Channel = Mid ANT4

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	40.90	-45.55	31.48	-68.43	-25.00	43.43	244	153	Horizontal
2	7548.2700	39.40	-43.04	36.62	-62.28	-25.00	37.28	185	84	Horizontal
3	10064.7600	36.16	-39.16	38.23	-60.03	-25.00	35.03	175	219	Horizontal
4	12580.9500	34.33	-37.49	38.97	-59.45	-25.00	34.45	166	112	Horizontal
5	15097.1400	33.58	-34.94	41.10	-55.53	-25.00	30.53	236	43	Horizontal
6	17613.3300	31.70	-33.34	45.06	-51.84	-25.00	26.84	261	207	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	41.71	-45.55	31.48	-67.62	-25.00	42.62	144	317	Vertical
2	7548.2700	40.74	-43.04	36.62	-60.94	-25.00	35.94	158	222	Vertical
3	10064.7600	36.24	-39.16	38.23	-59.95	-25.00	34.95	175	112	Vertical
4	12580.9500	34.13	-37.49	38.97	-59.65	-25.00	34.65	166	208	Vertical
5	15097.1400	32.01	-34.94	41.10	-57.10	-25.00	32.10	211	127	Vertical
6	17613.3300	31.15	-33.34	45.06	-52.39	-25.00	27.39	149	222	Vertical



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Test Band = LTE Band7_CA_TM1

Test Channel = High ANT4

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5062.5800	41.47	-45.47	31.55	-67.71	-25.00	42.71	144	86	Horizontal
2	7593.8700	39.21	-42.94	36.64	-62.36	-25.00	37.36	125	100	Horizontal
3	10125.1600	35.53	-39.22	38.26	-60.68	-25.00	35.68	136	1	Horizontal
4	12656.4500	34.64	-37.09	39.00	-58.71	-25.00	33.71	256	8	Horizontal
5	15187.7400	32.43	-34.04	40.91	-55.97	-25.00	30.97	152	113	Horizontal
6	17719.0300	32.68	-34.15	45.54	-51.19	-25.00	26.19	188	100	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	5062.5800	41.18	-45.47	31.55	-68.00	-25.00	43.00	321	328	Vertical
2	7593.8700	39.98	-42.94	36.64	-61.59	-25.00	36.59	157	328	Vertical
3	10125.1600	35.17	-39.22	38.26	-61.04	-25.00	36.04	142	193	Vertical
4	12656.4500	33.92	-37.09	39.00	-59.43	-25.00	34.43	302	125	Vertical
5	15187.7400	33.18	-34.04	40.91	-55.22	-25.00	30.22	153	206	Vertical
6	17719.0300	32.39	-34.15	45.54	-51.48	-25.00	26.48	261	58	Vertical



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Test Band = LTE Band7_CA_TM1

Test Channel = Low ANT5

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	41.86	-45.63	31.41	-67.63	-25.00	42.63	211	221	Horizontal
2	7503.2700	39.54	-43.13	36.60	-62.25	-25.00	37.25	154	180	Horizontal
3	10004.3600	37.28	-39.23	38.20	-59.01	-25.00	34.01	128	19	Horizontal
4	12505.4500	34.93	-36.99	38.95	-58.37	-25.00	33.37	186	167	Horizontal
5	15006.5400	32.45	-34.65	41.29	-56.18	-25.00	31.18	261	1	Horizontal
6	17507.6300	32.06	-34.95	44.59	-53.56	-25.00	28.56	142	276	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	41.28	-45.63	31.41	-68.21	-25.00	43.21	256	84	Vertical
2	7503.2700	40.04	-43.13	36.60	-61.75	-25.00	36.75	142	125	Vertical
3	10004.3600	36.26	-39.23	38.20	-60.03	-25.00	35.03	135	71	Vertical
4	12505.4500	34.07	-36.99	38.95	-59.23	-25.00	34.23	185	98	Vertical
5	15006.5400	32.89	-34.65	41.29	-55.74	-25.00	30.74	172	360	Vertical
6	17507.6300	31.57	-34.95	44.59	-54.05	-25.00	29.05	199	359	Vertical



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Test Band = LTE Band7_CA_TM1

Test Channel = Mid ANT5

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	41.61	-45.55	31.48	-67.72	-25.00	42.72	255	0	Horizontal
2	7548.2700	40.14	-43.04	36.62	-61.54	-25.00	36.54	142	141	Horizontal
3	10064.7600	35.80	-39.16	38.23	-60.39	-25.00	35.39	187	31	Horizontal
4	12580.9500	34.69	-37.49	38.97	-59.09	-25.00	34.09	175	19	Horizontal
5	15097.1400	32.89	-34.94	41.10	-56.22	-25.00	31.22	146	114	Horizontal
6	17613.3300	31.68	-33.34	45.06	-51.86	-25.00	26.86	129	0	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	40.55	-45.55	31.48	-68.78	-25.00	43.78	220	17	Vertical
2	7548.2700	39.25	-43.04	36.62	-62.43	-25.00	37.43	125	221	Vertical
3	10064.7600	37.01	-39.16	38.23	-59.18	-25.00	34.18	142	31	Vertical
4	12580.9500	34.41	-37.49	38.97	-59.37	-25.00	34.37	123	57	Vertical
5	15097.1400	32.91	-34.94	41.10	-56.20	-25.00	31.20	166	358	Vertical
6	17613.3300	31.14	-33.34	45.06	-52.40	-25.00	27.40	192	358	Vertical



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Test Band = LTE Band7_CA_TM1

Test Channel = High ANT5

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5062.5800	41.33	-45.47	31.55	-67.85	-25.00	42.85	244	357	Horizontal
2	7593.8700	38.79	-42.94	36.64	-62.78	-25.00	37.78	156	155	Horizontal
3	10125.1600	35.49	-39.22	38.26	-60.72	-25.00	35.72	129	276	Horizontal
4	12656.4500	34.67	-37.09	39.00	-58.68	-25.00	33.68	188	31	Horizontal
5	15187.7400	32.43	-34.04	40.91	-55.97	-25.00	30.97	172	249	Horizontal
6	17719.0300	32.22	-34.15	45.54	-51.65	-25.00	26.65	166	263	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	5062.5800	41.45	-45.47	31.55	-67.73	-25.00	42.73	244	274	Vertical
2	7593.8700	38.83	-42.94	36.64	-62.74	-25.00	37.74	158	123	Vertical
3	10125.1600	35.17	-39.22	38.26	-61.04	-25.00	36.04	172	15	Vertical
4	12656.4500	34.70	-37.09	39.00	-58.65	-25.00	33.65	163	150	Vertical
5	15187.7400	32.64	-34.04	40.91	-55.76	-25.00	30.76	251	15	Vertical
6	17719.0300	31.86	-34.15	45.54	-52.01	-25.00	27.01	145	287	Vertical

Remark:

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

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Pre-amplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
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	21.10	0.008356	PASS
7-7	20MHz -20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	VN	NT	22.70	0.008990	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	27.30	0.010811	PASS
7-7	20MHz -20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	-20	26.60	0.010534	PASS
7-7	20MHz -20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	-10	21.20	0.008396	PASS
7-7	20MHz -20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	0	21.80	0.008633	PASS
7-7	20MHz -20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	10	4.90	0.001941	PASS
7-7	20MHz -20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	20	-58.80	-0.023286	PASS
7-7	20MHz -20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	30	25.00	0.009901	PASS
7-7	20MHz -20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	40	27.40	0.010851	PASS
7-7	20MHz -20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	50	22.60	0.010461	PASS

---End of Attachment---



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South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 t (86-512) 62992980 www.sgs.com.cn
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000 t (86-512) 62992980 sgs.china@sgs.com