

# Appendix B.20

## LTE CA\_41C



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## Effective (Isotropic) Radiated Power Output Data

### Test Result

#### Ant13:

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
41-41	10MHz-15MHz	QPSK-QPSK	39703-39823	1RB#0-0RB#0	23.26	25.86	33.00	PASS
41-41	10MHz-15MHz	QPSK-QPSK	39703-39823	50RB#0-75RB#0	21.98	24.58	33.00	PASS
41-41	10MHz-15MHz	QPSK-QPSK	40549-40669	1RB#0-0RB#0	23.21	25.81	33.00	PASS
41-41	10MHz-15MHz	QPSK-QPSK	40549-40669	50RB#0-75RB#0	22.20	24.80	33.00	PASS
41-41	10MHz-15MHz	QPSK-QPSK	41395-41515	1RB#0-0RB#0	23.19	25.79	33.00	PASS
41-41	10MHz-15MHz	QPSK-QPSK	41395-41515	50RB#0-75RB#0	22.12	24.72	33.00	PASS
41-41	10MHz-15MHz	16QAM-16QAM	39703-39823	1RB#0-0RB#0	21.68	24.28	33.00	PASS
41-41	10MHz-15MHz	16QAM-16QAM	39703-39823	50RB#0-75RB#0	20.98	23.58	33.00	PASS
41-41	10MHz-15MHz	16QAM-16QAM	40549-40669	1RB#0-0RB#0	22.06	24.66	33.00	PASS
41-41	10MHz-15MHz	16QAM-16QAM	40549-40669	50RB#0-75RB#0	21.22	23.82	33.00	PASS
41-41	10MHz-15MHz	16QAM-16QAM	41395-41515	1RB#0-0RB#0	22.10	24.70	33.00	PASS
41-41	10MHz-15MHz	16QAM-16QAM	41395-41515	50RB#0-75RB#0	21.17	23.77	33.00	PASS
41-41	10MHz-15MHz	64QAM-64QAM	39703-39823	1RB#0-0RB#0	21.37	23.97	33.00	PASS
41-41	10MHz-15MHz	64QAM-64QAM	39703-39823	50RB#0-75RB#0	21.07	23.67	33.00	PASS
41-41	10MHz-15MHz	64QAM-64QAM	40549-40669	1RB#0-0RB#0	21.91	24.51	33.00	PASS
41-41	10MHz-15MHz	64QAM-64QAM	40549-40669	50RB#0-75RB#0	21.21	23.81	33.00	PASS
41-41	10MHz-15MHz	64QAM-64QAM	41395-41515	1RB#0-0RB#0	21.97	24.57	33.00	PASS
41-41	10MHz-15MHz	64QAM-64QAM	41395-41515	50RB#0-75RB#0	21.21	23.81	33.00	PASS
41-41	10MHz-20MHz	QPSK-QPSK	39705-39849	1RB#0-0RB#0	18.40	21.00	33.00	PASS
41-41	10MHz-20MHz	QPSK-QPSK	39705-39849	50RB#0-100RB#0	18.99	21.59	33.00	PASS
41-41	10MHz-20MHz	QPSK-QPSK	40526-40670	1RB#0-0RB#0	18.59	21.19	33.00	PASS
41-41	10MHz-20MHz	QPSK-QPSK	40526-40670	50RB#0-100RB#0	19.24	21.84	33.00	PASS
41-41	10MHz-20MHz	QPSK-QPSK	41346-41490	1RB#0-0RB#0	18.63	21.23	33.00	PASS
41-41	10MHz-20MHz	QPSK-QPSK	41346-41490	50RB#0-100RB#0	19.18	21.78	33.00	PASS
41-41	10MHz-20MHz	16QAM-16QAM	39705-39849	1RB#0-0RB#0	22.93	25.53	33.00	PASS
41-41	10MHz-20MHz	16QAM-16QAM	39705-39849	50RB#0-100RB#0	21.96	24.56	33.00	PASS



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Table with 9 columns: Item ID, Frequency, Modulation, Standard, Test Method, and 4 Pass/Fail metrics. All entries show 'PASS' results.



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41-41	15MHz-15MHz	QPSK-QPSK	41365-41515	75RB#0-75RB#0	21.11	23.71	33.00	PASS
41-41	15MHz-15MHz	16QAM-16QAM	39725-39875	1RB#0-0RB#0	21.42	24.02	33.00	PASS
41-41	15MHz-15MHz	16QAM-16QAM	39725-39875	75RB#0-75RB#0	20.89	23.49	33.00	PASS
41-41	15MHz-15MHz	16QAM-16QAM	40545-40695	1RB#0-0RB#0	21.82	24.42	33.00	PASS
41-41	15MHz-15MHz	16QAM-16QAM	40545-40695	75RB#0-75RB#0	21.15	23.75	33.00	PASS
41-41	15MHz-15MHz	16QAM-16QAM	41365-41515	1RB#0-0RB#0	21.67	24.27	33.00	PASS
41-41	15MHz-15MHz	16QAM-16QAM	41365-41515	75RB#0-75RB#0	23.11	25.71	33.00	PASS
41-41	15MHz-15MHz	64QAM-64QAM	39725-39875	1RB#0-0RB#0	18.37	20.97	33.00	PASS
41-41	15MHz-15MHz	64QAM-64QAM	39725-39875	75RB#0-75RB#0	19.54	22.14	33.00	PASS
41-41	15MHz-15MHz	64QAM-64QAM	40545-40695	1RB#0-0RB#0	18.66	21.26	33.00	PASS
41-41	15MHz-15MHz	64QAM-64QAM	40545-40695	75RB#0-75RB#0	19.19	21.79	33.00	PASS
41-41	15MHz-15MHz	64QAM-64QAM	41365-41515	1RB#0-0RB#0	18.60	21.20	33.00	PASS
41-41	15MHz-15MHz	64QAM-64QAM	41365-41515	75RB#0-75RB#0	19.10	21.70	33.00	PASS
41-41	15MHz-20MHz	QPSK-QPSK	39728-39899	1RB#0-0RB#0	22.86	25.46	33.00	PASS
41-41	15MHz-20MHz	QPSK-QPSK	39728-39899	75RB#0-100RB#0	22.54	25.14	33.00	PASS
41-41	15MHz-20MHz	QPSK-QPSK	40523-40694	1RB#0-0RB#0	23.21	25.81	33.00	PASS
41-41	15MHz-20MHz	QPSK-QPSK	40523-40694	75RB#0-100RB#0	22.12	24.72	33.00	PASS
41-41	15MHz-20MHz	QPSK-QPSK	41319-41490	1RB#0-0RB#0	23.11	25.71	33.00	PASS
41-41	15MHz-20MHz	QPSK-QPSK	41319-41490	75RB#0-100RB#0	22.07	24.67	33.00	PASS
41-41	15MHz-20MHz	16QAM-16QAM	39728-39899	1RB#0-0RB#0	21.69	24.29	33.00	PASS
41-41	15MHz-20MHz	16QAM-16QAM	39728-39899	75RB#0-100RB#0	21.45	24.05	33.00	PASS
41-41	15MHz-20MHz	16QAM-16QAM	40523-40694	1RB#0-0RB#0	22.02	24.62	33.00	PASS
41-41	15MHz-20MHz	16QAM-16QAM	40523-40694	75RB#0-100RB#0	21.15	23.75	33.00	PASS
41-41	15MHz-20MHz	16QAM-16QAM	41319-41490	1RB#0-0RB#0	21.93	24.53	33.00	PASS
41-41	15MHz-20MHz	16QAM-16QAM	41319-41490	75RB#0-100RB#0	21.09	23.69	33.00	PASS
41-41	15MHz-20MHz	64QAM-64QAM	39728-39899	1RB#0-0RB#0	21.48	24.08	33.00	PASS
41-41	15MHz-20MHz	64QAM-64QAM	39728-39899	75RB#0-100RB#0	20.84	23.44	33.00	PASS
41-41	15MHz-20MHz	64QAM-64QAM	40523-40694	1RB#0-0RB#0	21.73	24.33	33.00	PASS
41-41	15MHz-20MHz	64QAM-64QAM	40523-40694	75RB#0-100RB#0	21.14	23.74	33.00	PASS
41-41	15MHz-20MHz	64QAM-64QAM	41319-41490	1RB#0-0RB#0	21.81	24.41	33.00	PASS
41-41	15MHz-20MHz	64QAM-64QAM	41319-41490	75RB#0-100RB#0	21.12	23.72	33.00	PASS
41-41	20MHz-15MHz	QPSK-QPSK	39750-39921	100RB#0-75RB#0	18.22	20.82	33.00	PASS
41-41	20MHz-15MHz	QPSK-QPSK	39750-39921	1RB#0-0RB#0	19.42	22.02	33.00	PASS



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41-41	20MHz-15MHz	QPSK-QPSK	40546-40717	100RB#0-75RB#0	18.61	21.21	33.00	PASS
41-41	20MHz-15MHz	QPSK-QPSK	40546-40717	1RB#0-0RB#0	19.20	21.80	33.00	PASS
41-41	20MHz-15MHz	QPSK-QPSK	41341-41512	100RB#0-75RB#0	18.59	21.19	33.00	PASS
41-41	20MHz-15MHz	QPSK-QPSK	41341-41512	1RB#0-0RB#0	19.11	21.71	33.00	PASS
41-41	20MHz-15MHz	16QAM-16QAM	39750-39921	100RB#0-75RB#0	22.85	25.45	33.00	PASS
41-41	20MHz-15MHz	16QAM-16QAM	39750-39921	1RB#0-0RB#0	22.41	25.01	33.00	PASS
41-41	20MHz-15MHz	16QAM-16QAM	40546-40717	100RB#0-75RB#0	23.16	25.76	33.00	PASS
41-41	20MHz-15MHz	16QAM-16QAM	40546-40717	1RB#0-0RB#0	22.16	24.76	33.00	PASS
41-41	20MHz-15MHz	16QAM-16QAM	41341-41512	100RB#0-75RB#0	23.16	25.76	33.00	PASS
41-41	20MHz-15MHz	16QAM-16QAM	41341-41512	1RB#0-0RB#0	22.13	24.73	33.00	PASS
41-41	20MHz-15MHz	64QAM-64QAM	39750-39921	100RB#0-75RB#0	21.63	24.23	33.00	PASS
41-41	20MHz-15MHz	64QAM-64QAM	39750-39921	1RB#0-0RB#0	21.59	24.19	33.00	PASS
41-41	20MHz-15MHz	64QAM-64QAM	40546-40717	100RB#0-75RB#0	22.03	24.63	33.00	PASS
41-41	20MHz-15MHz	64QAM-64QAM	40546-40717	1RB#0-0RB#0	21.17	23.77	33.00	PASS
41-41	20MHz-15MHz	64QAM-64QAM	41341-41512	100RB#0-75RB#0	22.04	24.64	33.00	PASS
41-41	20MHz-15MHz	64QAM-64QAM	41341-41512	1RB#0-0RB#0	21.14	23.74	33.00	PASS
41-41	20MHz-20MHz	QPSK-QPSK	39750-39948	100RB#0-100RB#0	21.52	24.12	33.00	PASS
41-41	20MHz-20MHz	QPSK-QPSK	39750-39948	1RB#0-0RB#0	20.72	23.32	33.00	PASS
41-41	20MHz-20MHz	QPSK-QPSK	40521-40719	100RB#0-100RB#0	21.74	24.34	33.00	PASS
41-41	20MHz-20MHz	QPSK-QPSK	40521-40719	1RB#0-0RB#0	21.15	23.75	33.00	PASS
41-41	20MHz-20MHz	QPSK-QPSK	41292-41490	100RB#0-100RB#0	21.78	24.38	33.00	PASS
41-41	20MHz-20MHz	QPSK-QPSK	41292-41490	1RB#0-0RB#0	21.18	23.78	33.00	PASS
41-41	20MHz-20MHz	16QAM-16QAM	39750-39948	100RB#0-100RB#0	18.28	20.88	33.00	PASS
41-41	20MHz-20MHz	16QAM-16QAM	39750-39948	1RB#0-0RB#0	19.83	22.43	33.00	PASS
41-41	20MHz-20MHz	16QAM-16QAM	40521-40719	100RB#0-100RB#0	18.52	21.12	33.00	PASS
41-41	20MHz-20MHz	16QAM-16QAM	40521-40719	1RB#0-0RB#0	19.15	21.75	33.00	PASS
41-41	20MHz-20MHz	16QAM-16QAM	41292-41490	100RB#0-100RB#0	18.51	21.11	33.00	PASS
41-41	20MHz-20MHz	16QAM-16QAM	41292-41490	1RB#0-0RB#0	19.14	21.74	33.00	PASS
41-41	20MHz-20MHz	64QAM-64QAM	39750-39948	100RB#0-100RB#0	22.38	24.98	33.00	PASS
41-41	20MHz-20MHz	64QAM-64QAM	39750-39948	1RB#0-0RB#0	22.90	25.50	33.00	PASS
41-41	20MHz-20MHz	64QAM-64QAM	40521-40719	100RB#0-100RB#0	22.15	24.75	33.00	PASS
41-41	20MHz-20MHz	64QAM-64QAM	40521-40719	1RB#0-0RB#0	23.21	25.81	33.00	PASS
41-41	20MHz-20MHz	64QAM-64QAM	41292-41490	100RB#0-100RB#0	22.12	24.72	33.00	PASS



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Table with 9 columns: Item No., Frequency, Modulation, Bandwidth, Power, and Pass/Fail status. Contains 40 rows of test results.



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41-41	5MHz-20MHz	64QAM-64QAM	40528-40645	1RB#0-0RB#0	21.21	23.81	33.00	PASS
41-41	5MHz-20MHz	64QAM-64QAM	40528-40645	25RB#0-100RB#0	21.74	24.34	33.00	PASS
41-41	5MHz-20MHz	64QAM-64QAM	41373-41490	1RB#0-0RB#0	21.14	23.74	33.00	PASS
41-41	5MHz-20MHz	64QAM-64QAM	41373-41490	25RB#0-100RB#0	21.75	24.35	33.00	PASS



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## Peak-to-Average Ratio(CCDF)

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dB)	Limit (dB)	Verdict
41-41	20MHz-20MHz	QPSK-QPSK	39750-39948	100RB#0-100RB#0	8.48	13	PASS
41-41	20MHz-20MHz	QPSK-QPSK	40521-40719	100RB#0-100RB#0	8.62	13	PASS
41-41	20MHz-20MHz	QPSK-QPSK	41292-41490	100RB#0-100RB#0	8.44	13	PASS
41-41	20MHz-20MHz	16QAM-16QAM	39750-39948	100RB#0-100RB#0	9.06	13	PASS
41-41	20MHz-20MHz	16QAM-16QAM	40521-40719	100RB#0-100RB#0	9.00	13	PASS
41-41	20MHz-20MHz	16QAM-16QAM	41292-41490	100RB#0-100RB#0	8.80	13	PASS
41-41	20MHz-20MHz	64QAM-64QAM	39750-39948	100RB#0-100RB#0	9.08	13	PASS
41-41	20MHz-20MHz	64QAM-64QAM	40521-40719	100RB#0-100RB#0	9.06	13	PASS
41-41	20MHz-20MHz	64QAM-64QAM	41292-41490	100RB#0-100RB#0	8.94	13	PASS



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Test Graphs

41-41-20MHz-20MHz-QPSK-QPSK-39750-39948-100RB#0-100RB#0



19:40:31 06.06.2023

41-41-20MHz-20MHz-QPSK-QPSK-40521-40719-100RB#0-100RB#0



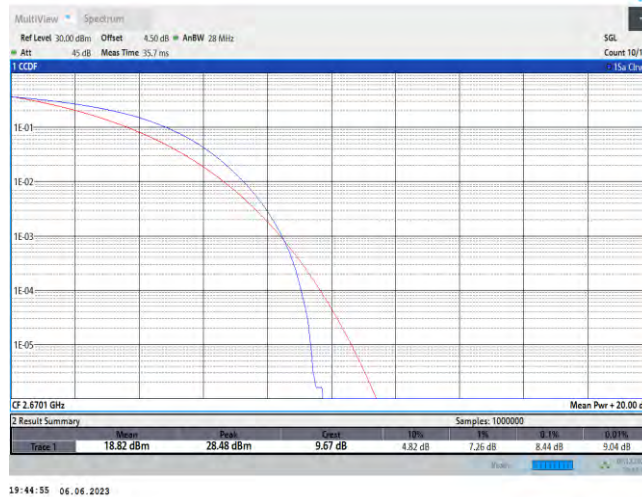
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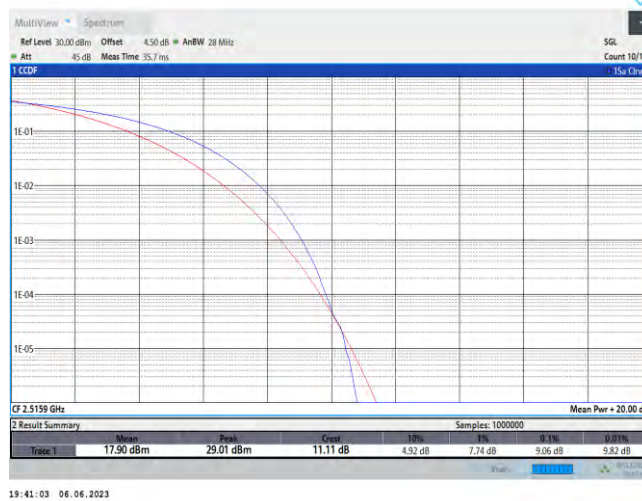
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41-41-20MHz-20MHz-QPSK-QPSK-41292-41490-100RB#0-100RB#0



41-41-20MHz-20MHz-16QAM-16QAM-39750-39948-100RB#0-100RB#0

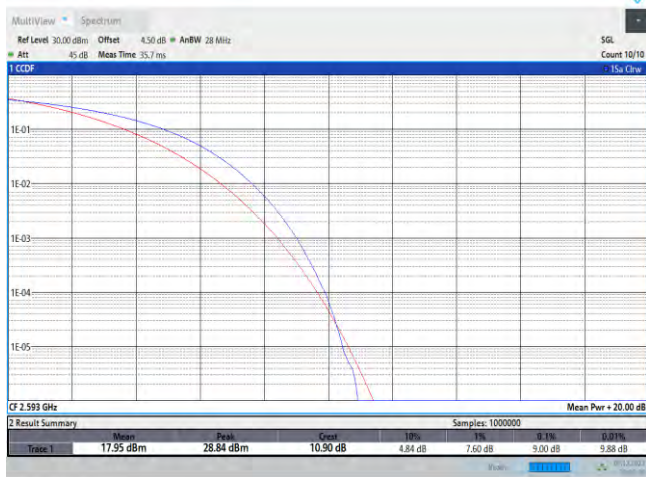


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41-41-20MHz-20MHz-16QAM-16QAM-40521-40719-100RB#0-100RB#0



19:43:16 09.12.2022

41-41-20MHz-20MHz-16QAM-16QAM-41292-41490-100RB#0-100RB#0



19:45:26 06.06.2023

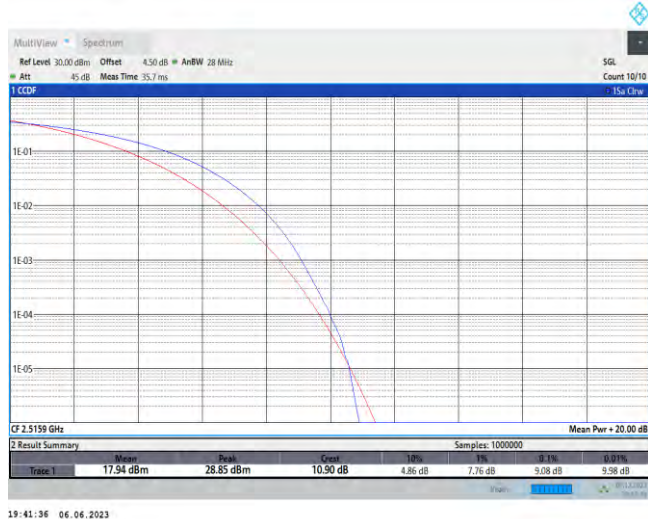


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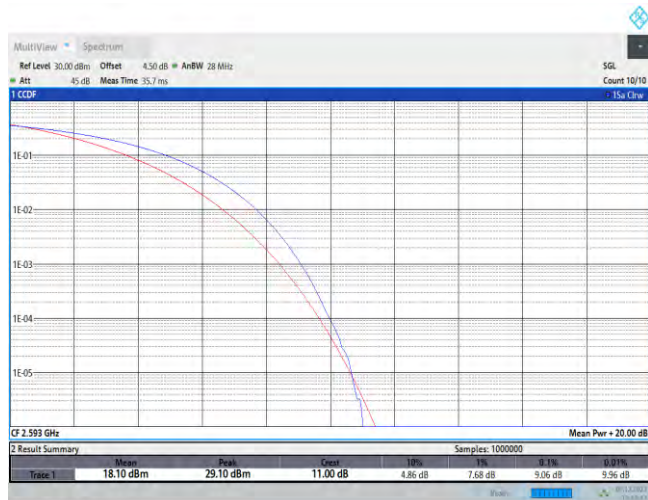
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41-41-20MHz-20MHz-64QAM-64QAM-39750-39948-100RB#0-100RB#0



19:41:36 06.06.2023

41-41-20MHz-20MHz-64QAM-64QAM-40521-40719-100RB#0-100RB#0



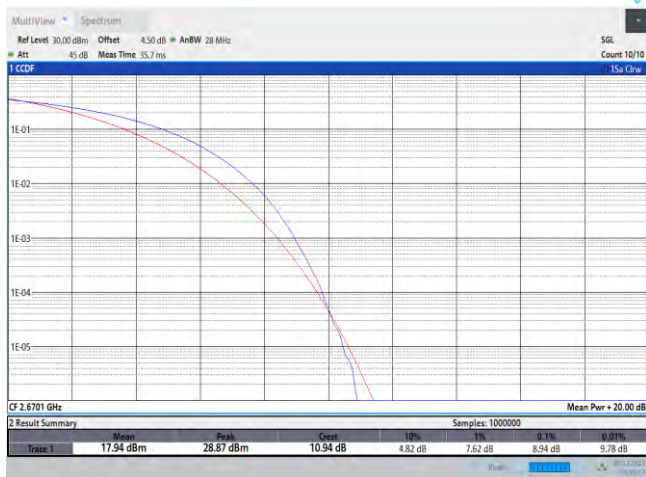
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41-41-20MHz-20MHz-64QAM-64QAM-41292-41490-100RB#0-100RB#0



19:45:57 06.06.2023



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## Modulation Characteristics

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Verdict
41-41	20MHz-20MHz	QPSK-QPSK	40521-40719	100RB#0-100RB#0	PASS
41-41	20MHz-20MHz	16QAM-16QAM	40521-40719	100RB#0-100RB#0	PASS
41-41	20MHz-20MHz	64QAM-64QAM	40521-40719	100RB#0-100RB#0	PASS



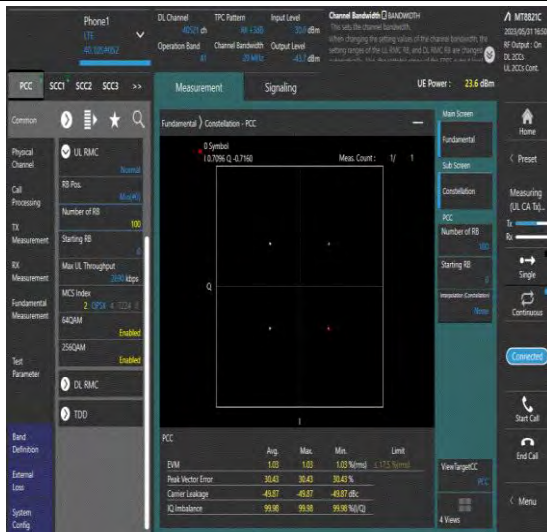
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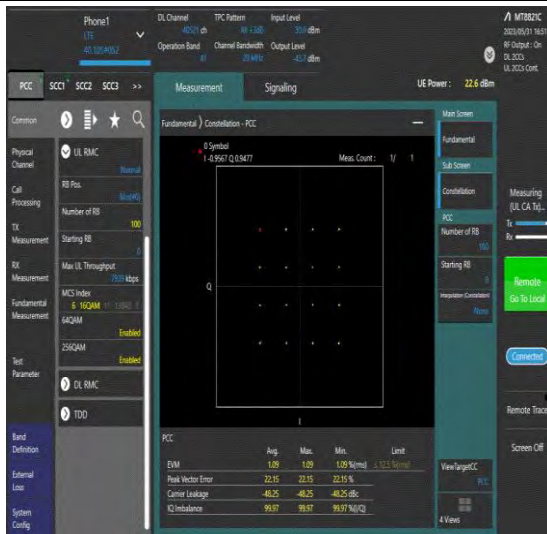
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Test Graphs

41-41-20MHz-20MHz-QPSK-QPSK-40521-40719-100RB#0-100RB#0



41-41-20MHz-20MHz-16QAM-16QAM-40521-40719-100RB#0-100RB#0

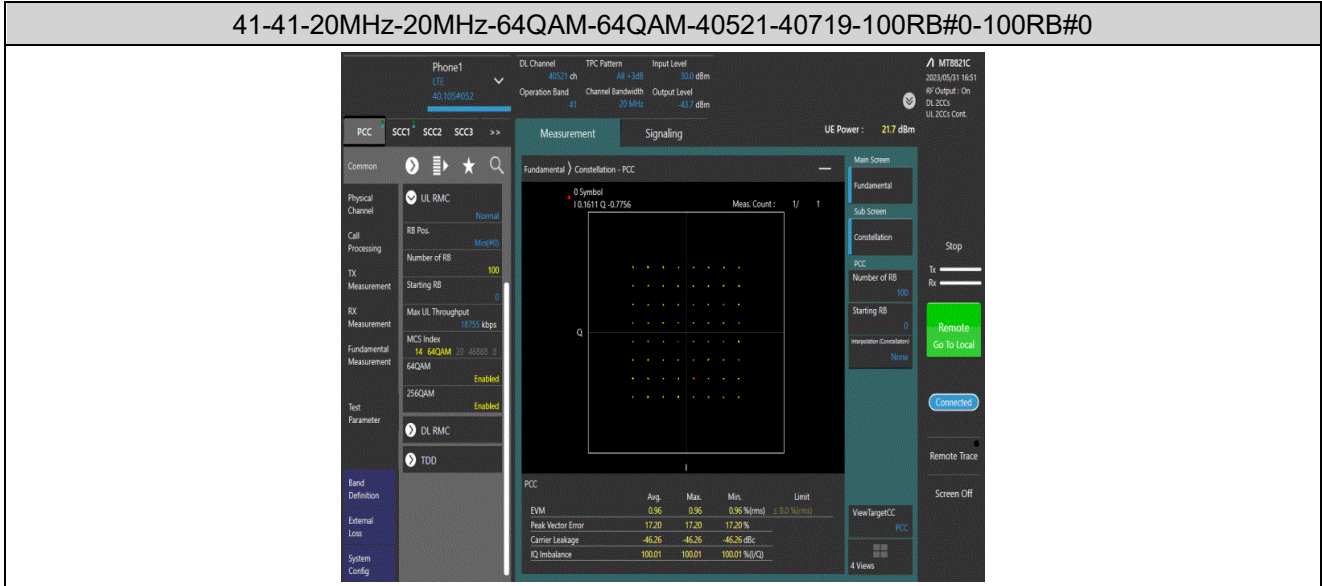


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41-41-20MHz-20MHz-64QAM-64QAM-40521-40719-100RB#0-100RB#0



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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
41-41	10MHz-15MHz	QPSK-QPSK	39703-39823	50RB#0-75RB#0	23.171	24.45	PASS
41-41	10MHz-15MHz	QPSK-QPSK	40549-40669	50RB#0-75RB#0	23.214	24.70	PASS
41-41	10MHz-15MHz	QPSK-QPSK	41395-41515	50RB#0-75RB#0	23.187	24.40	PASS
41-41	10MHz-15MHz	16QAM-16QAM	39703-39823	50RB#0-75RB#0	23.153	24.75	PASS
41-41	10MHz-15MHz	16QAM-16QAM	40549-40669	50RB#0-75RB#0	23.131	24.50	PASS
41-41	10MHz-15MHz	16QAM-16QAM	41395-41515	50RB#0-75RB#0	23.201	24.45	PASS
41-41	10MHz-15MHz	64QAM-64QAM	39703-39823	50RB#0-75RB#0	23.093	24.50	PASS
41-41	10MHz-15MHz	64QAM-64QAM	40549-40669	50RB#0-75RB#0	23.143	24.75	PASS
41-41	10MHz-15MHz	64QAM-64QAM	41395-41515	50RB#0-75RB#0	23.19	24.35	PASS
41-41	10MHz-20MHz	QPSK-QPSK	39705-39849	50RB#0-100RB#0	27.65	29.04	PASS
41-41	10MHz-20MHz	QPSK-QPSK	40526-40670	50RB#0-100RB#0	27.719	29.28	PASS
41-41	10MHz-20MHz	QPSK-QPSK	41346-41490	50RB#0-100RB#0	27.674	29.22	PASS
41-41	10MHz-20MHz	16QAM-16QAM	39705-39849	50RB#0-100RB#0	27.716	29.28	PASS
41-41	10MHz-20MHz	16QAM-16QAM	40526-40670	50RB#0-100RB#0	27.689	29.28	PASS
41-41	10MHz-20MHz	16QAM-16QAM	41346-41490	50RB#0-100RB#0	27.754	29.40	PASS
41-41	10MHz-20MHz	64QAM-64QAM	39705-39849	50RB#0-100RB#0	27.702	29.22	PASS
41-41	10MHz-20MHz	64QAM-64QAM	40526-40670	50RB#0-100RB#0	27.723	29.16	PASS
41-41	10MHz-20MHz	64QAM-64QAM	41346-41490	50RB#0-100RB#0	27.781	29.34	PASS
41-41	15MHz-10MHz	QPSK-QPSK	39725-39845	75RB#0-50RB#0	23.372	24.65	PASS
41-41	15MHz-10MHz	QPSK-QPSK	40571-40691	75RB#0-50RB#0	23.281	25.25	PASS
41-41	15MHz-10MHz	QPSK-QPSK	41417-41537	75RB#0-50RB#0	23.138	25.05	PASS
41-41	15MHz-10MHz	16QAM-16QAM	39725-39845	75RB#0-50RB#0	23.128	24.80	PASS
41-41	15MHz-10MHz	16QAM-16QAM	40571-40691	75RB#0-50RB#0	23.137	24.75	PASS
41-41	15MHz-10MHz	16QAM-16QAM	41417-41537	75RB#0-50RB#0	23.239	25.10	PASS
41-41	15MHz-10MHz	64QAM-64QAM	39725-39845	75RB#0-50RB#0	23.081	24.70	PASS
41-41	15MHz-10MHz	64QAM-64QAM	40571-40691	75RB#0-50RB#0	23.114	25.60	PASS
41-41	15MHz-10MHz	64QAM-64QAM	41417-41537	75RB#0-50RB#0	23.169	24.50	PASS
41-41	15MHz-15MHz	QPSK-QPSK	39725-39875	75RB#0-75RB#0	28.406	29.76	PASS
41-41	15MHz-15MHz	QPSK-QPSK	40545-40695	75RB#0-75RB#0	28.335	30.00	PASS



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Table with 8 columns: Test ID, Frequency, Modulation, Standard, Modulation, SNR, SNR, and Result. Contains 48 rows of test data.



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Report No.: SEWM2306000194RG01

Rev.: 01

Page: 19 of 86

41-41	20MHz-5MHz	64QAM-64QAM	41440-41557	100RB#0-25RB#0	22.959	24.15	PASS
41-41	5MHz-20MHz	QPSK-QPSK	39683-39800	25RB#0-100RB#0	22.941	24.20	PASS
41-41	5MHz-20MHz	QPSK-QPSK	40528-40645	25RB#0-100RB#0	22.882	24.50	PASS
41-41	5MHz-20MHz	QPSK-QPSK	41373-41490	25RB#0-100RB#0	17.985	19.70	PASS
41-41	5MHz-20MHz	16QAM-16QAM	39683-39800	25RB#0-100RB#0	22.917	24.25	PASS
41-41	5MHz-20MHz	16QAM-16QAM	40528-40645	25RB#0-100RB#0	22.89	24.05	PASS
41-41	5MHz-20MHz	16QAM-16QAM	41373-41490	25RB#0-100RB#0	22.888	24.25	PASS
41-41	5MHz-20MHz	64QAM-64QAM	39683-39800	25RB#0-100RB#0	22.836	24.00	PASS
41-41	5MHz-20MHz	64QAM-64QAM	40528-40645	25RB#0-100RB#0	22.932	24.15	PASS
41-41	5MHz-20MHz	64QAM-64QAM	41373-41490	25RB#0-100RB#0	22.84	24.15	PASS



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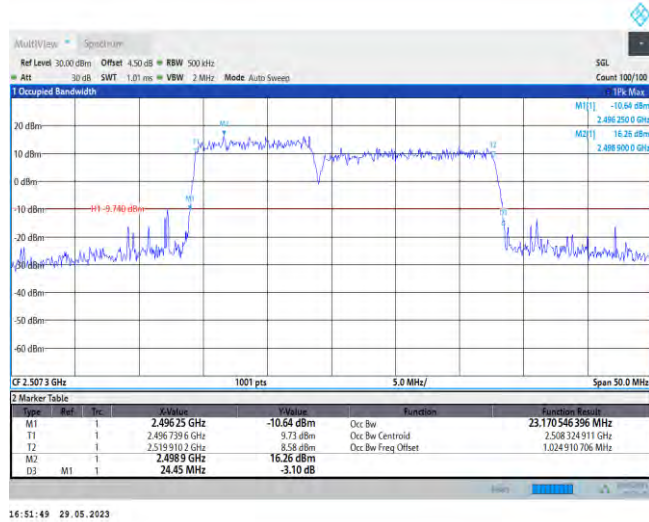
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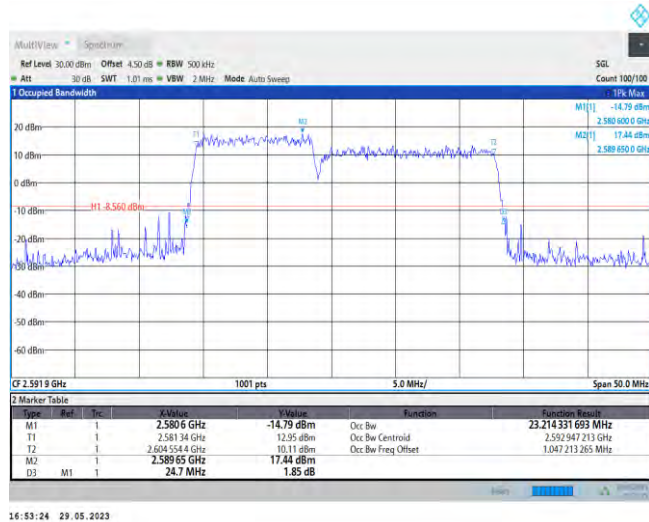
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Test Graphs

41-41-10MHz-15MHz-QPSK-QPSK-39703-39823-50RB#0-75RB#0



41-41-10MHz-15MHz-QPSK-QPSK-40549-40669-50RB#0-75RB#0

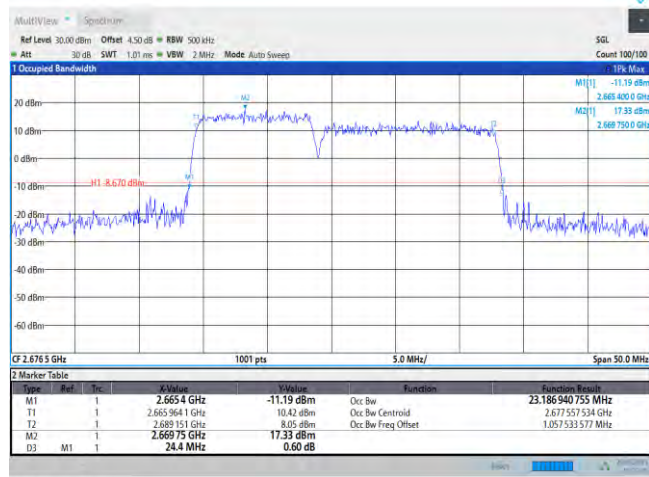


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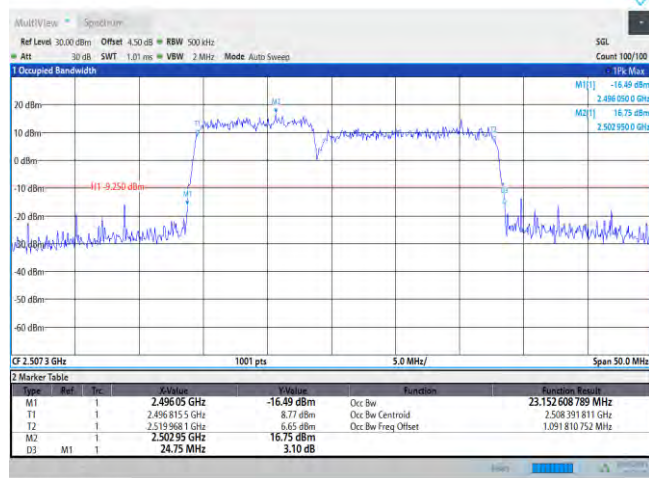
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41-41-10MHz-15MHz-QPSK-QPSK-41395-41515-50RB#0-75RB#0



16:55:04 29.05.2023

41-41-10MHz-15MHz-16QAM-16QAM-39703-39823-50RB#0-75RB#0



16:52:19 29.05.2023

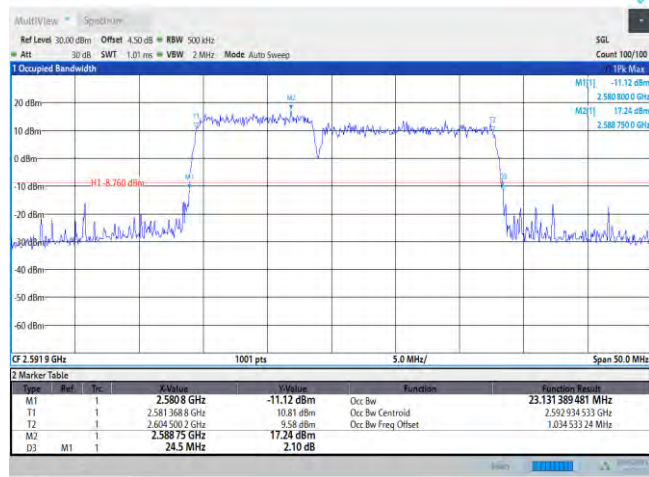


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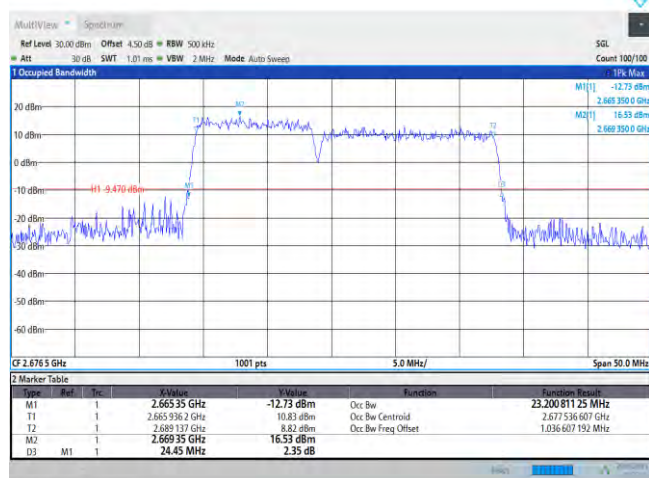
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41-41-10MHz-15MHz-16QAM-16QAM-40549-40669-50RB#0-75RB#0



16:53:53 29.05.2023

41-41-10MHz-15MHz-16QAM-16QAM-41395-41515-50RB#0-75RB#0



16:55:35 29.05.2023



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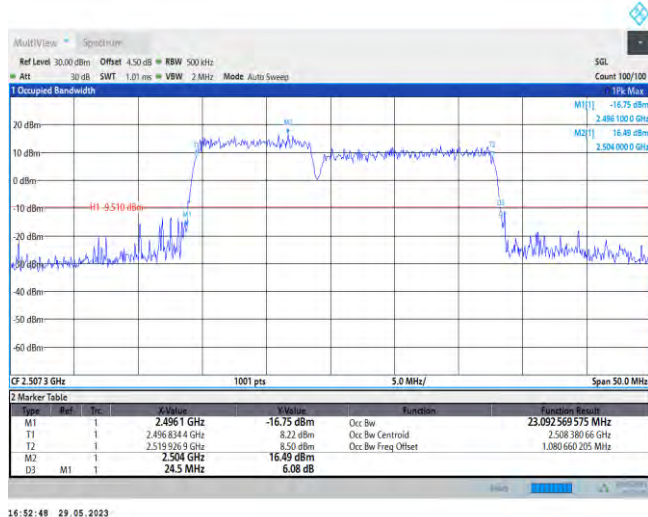
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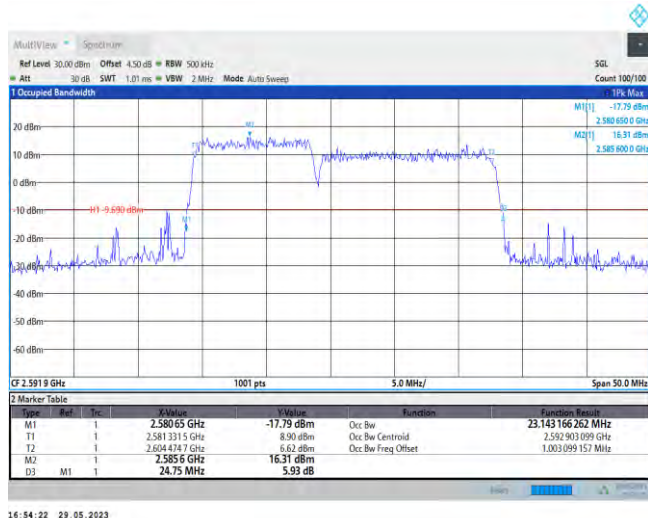
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41-41-10MHz-15MHz-64QAM-64QAM-39703-39823-50RB#0-75RB#0



16:52:48 29.05.2023

41-41-10MHz-15MHz-64QAM-64QAM-40549-40669-50RB#0-75RB#0

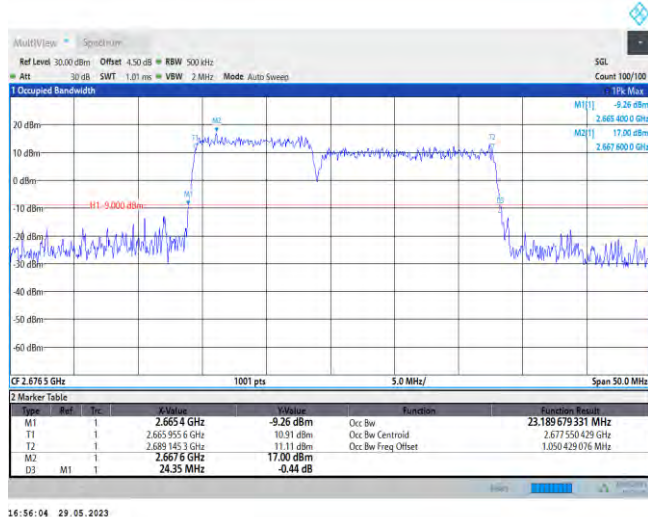


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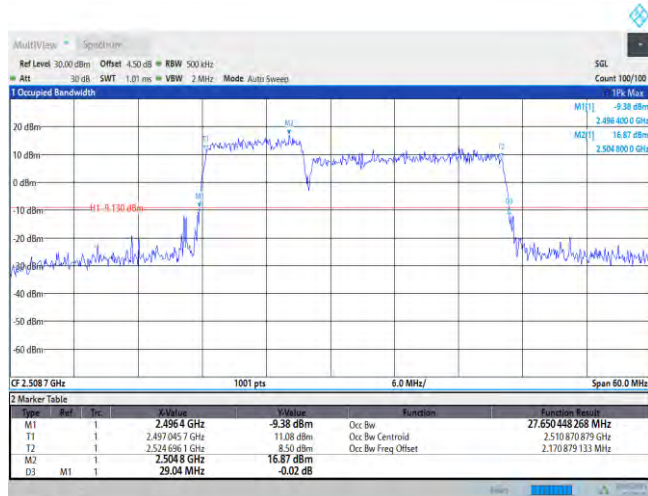
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41-41-10MHz-15MHz-64QAM-64QAM-41395-41515-50RB#0-75RB#0



16:56:04 29.05.2023

41-41-10MHz-20MHz-QPSK-QPSK-39705-39849-50RB#0-100RB#0



17:18:20 29.05.2023

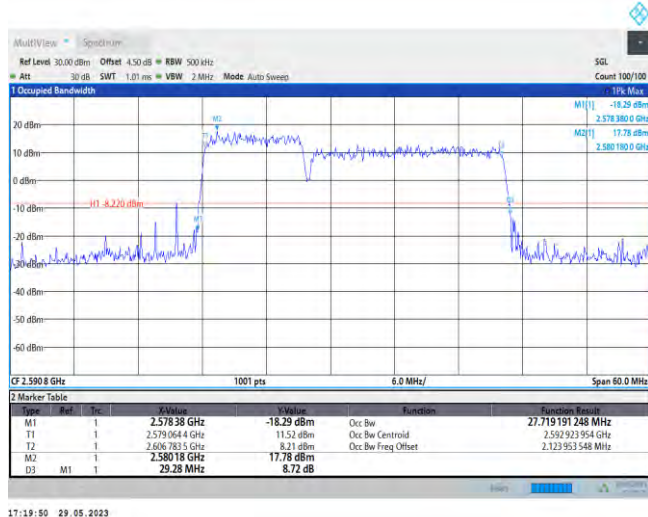


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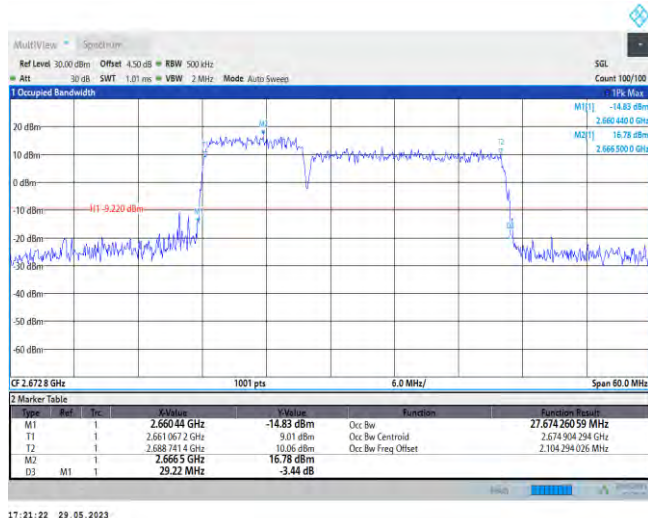
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41-41-10MHz-20MHz-QPSK-QPSK-40526-40670-50RB#0-100RB#0



41-41-10MHz-20MHz-QPSK-QPSK-41346-41490-50RB#0-100RB#0

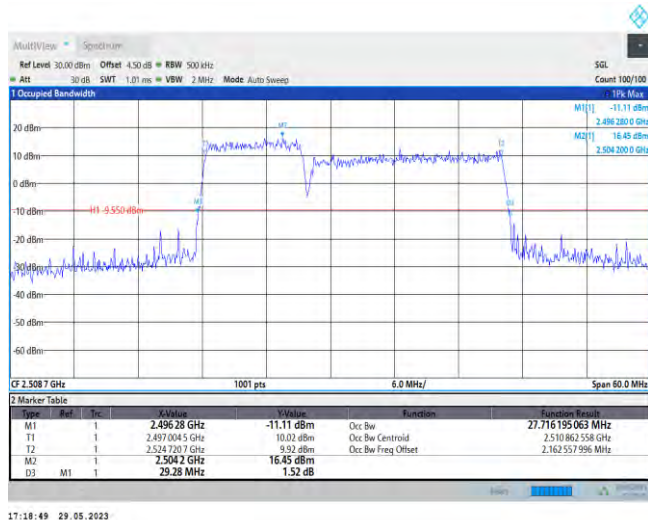


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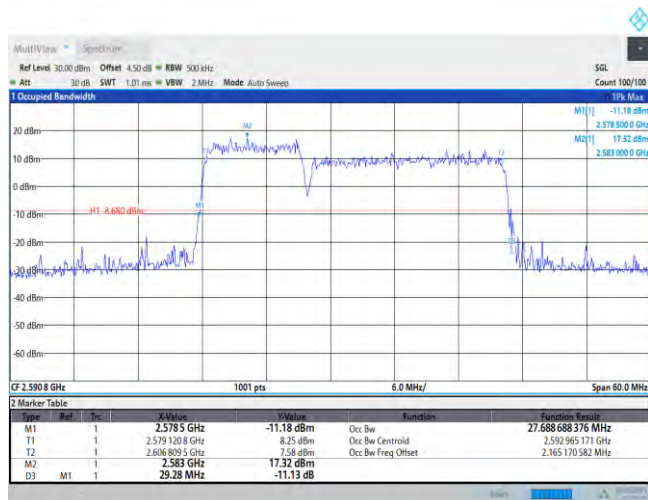
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41-41-10MHz-20MHz-16QAM-16QAM-39705-39849-50RB#0-100RB#0



17:18:49 29.05.2023

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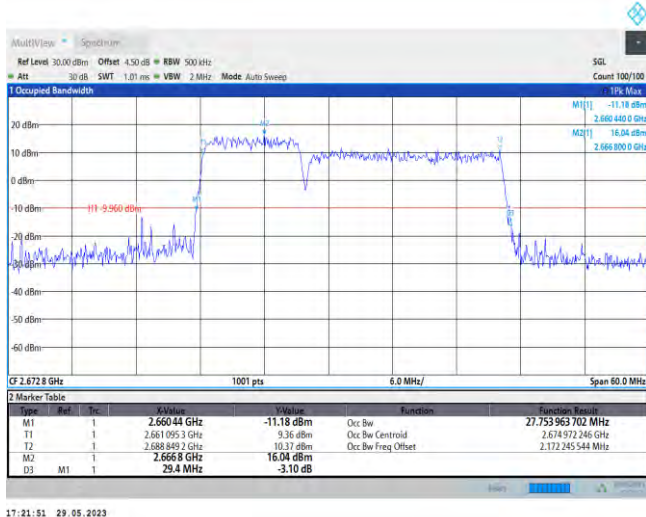
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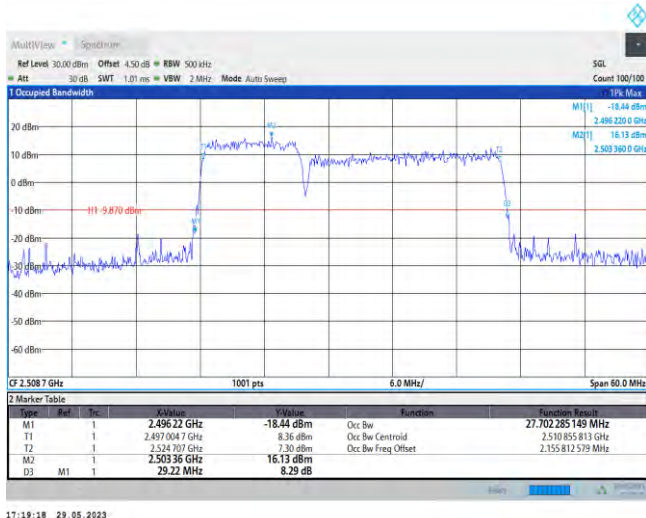
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41-41-10MHz-20MHz-16QAM-16QAM-41346-41490-50RB#0-100RB#0



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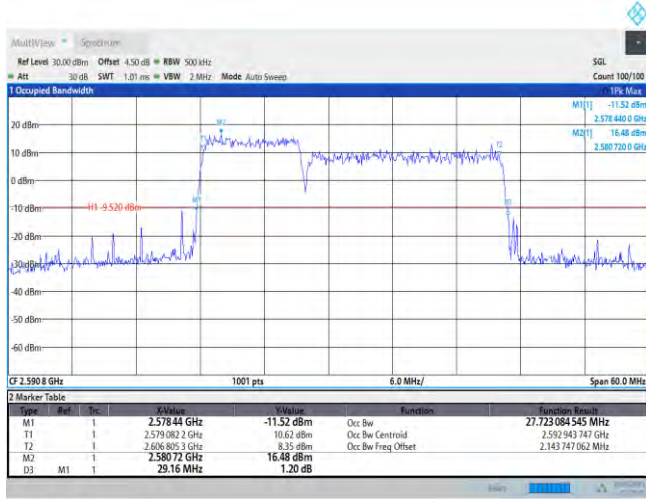


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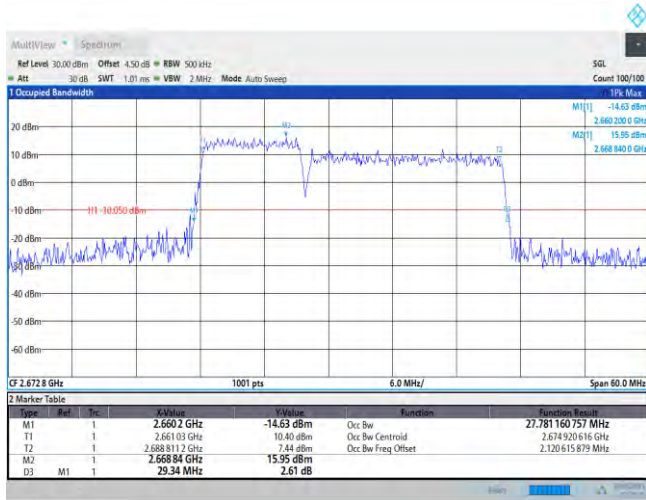
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41-41-10MHz-20MHz-64QAM-64QAM-40526-40670-50RB#0-100RB#0



17:20:48 29.05.2023

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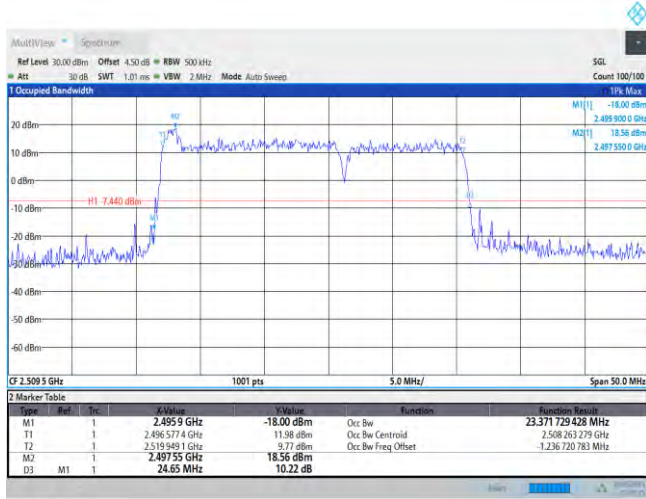


17:22:20 29.05.2023



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41-41-15MHz-10MHz-QPSK-QPSK-39725-39845-75RB#0-50RB#0



17:48:34 29.05.2023

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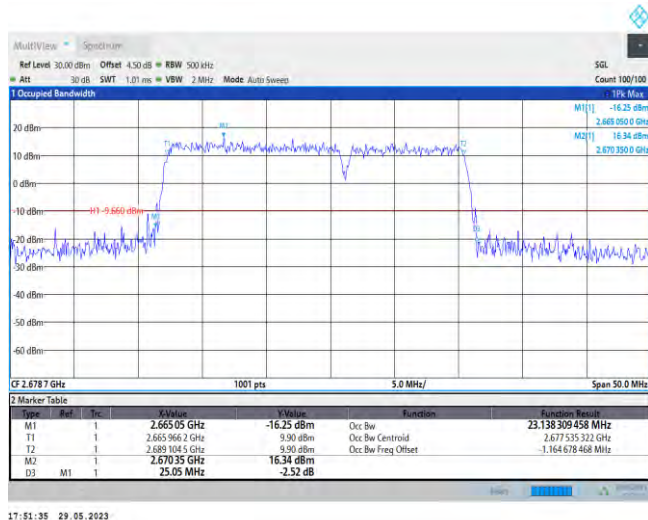


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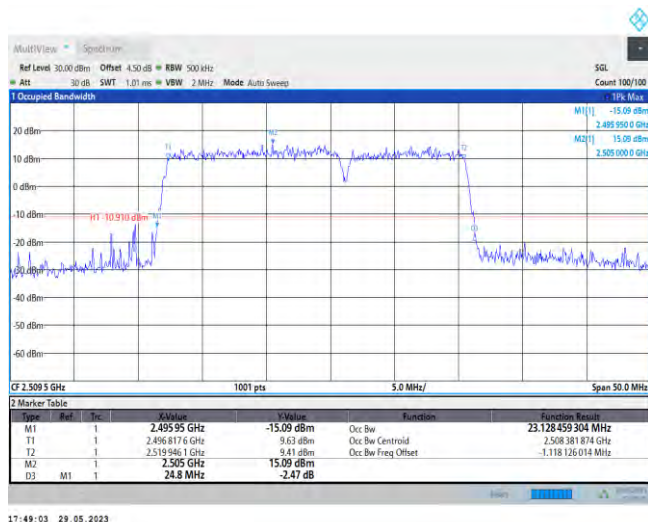


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41-41-15MHz-10MHz-QPSK-QPSK-41417-41537-75RB#0-50RB#0



41-41-15MHz-10MHz-16QAM-16QAM-39725-39845-75RB#0-50RB#0

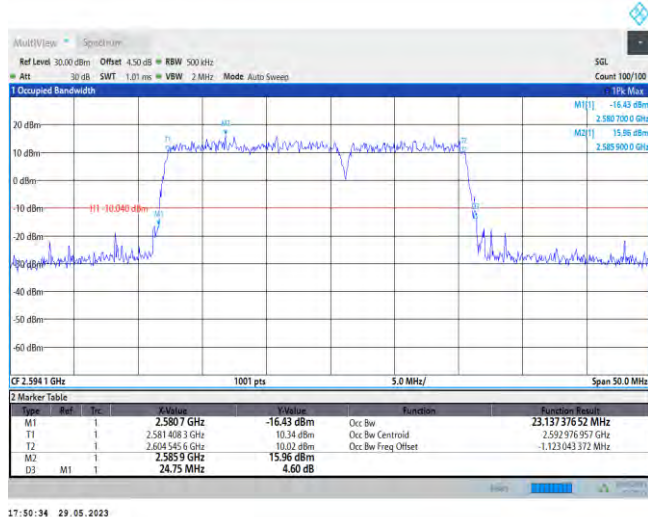


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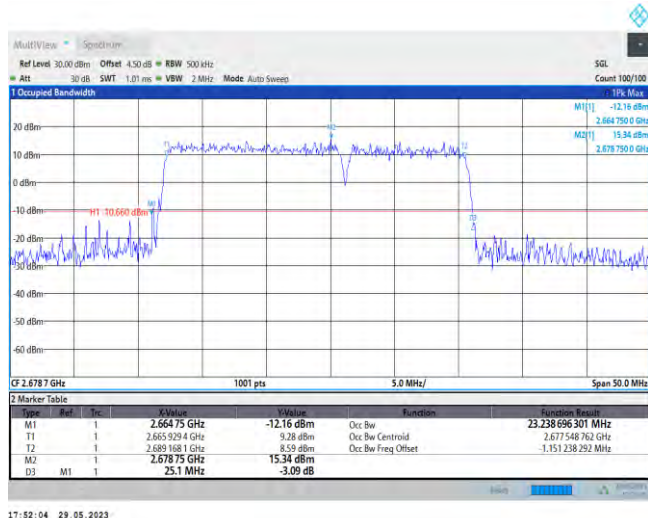
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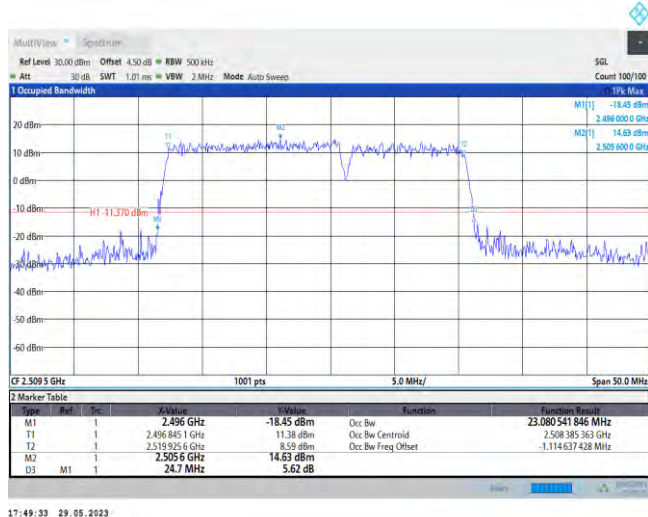
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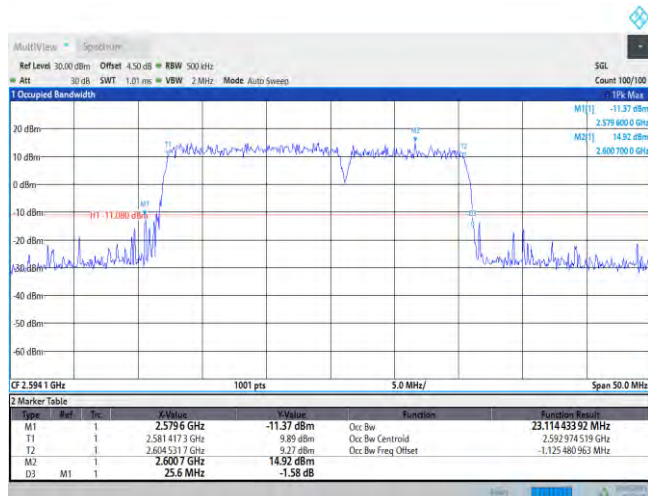
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17:49:33 29.05.2023

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17:51:03 29.05.2023



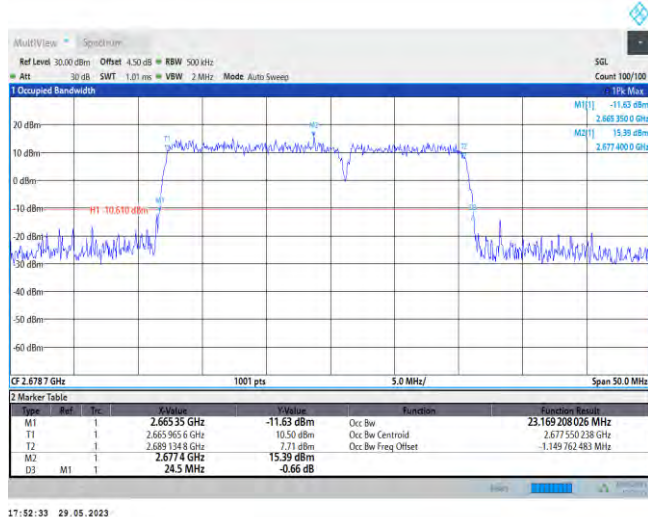
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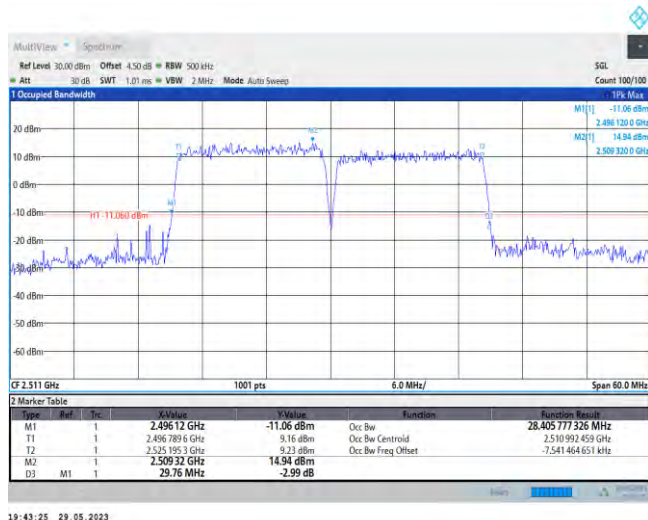
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41-41-15MHz-10MHz-64QAM-64QAM-41417-41537-75RB#0-50RB#0



41-41-15MHz-15MHz-QPSK-QPSK-39725-39875-75RB#0-75RB#0

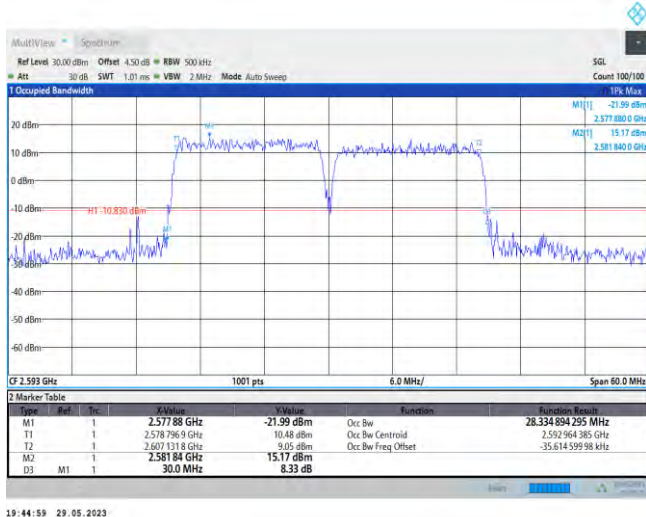


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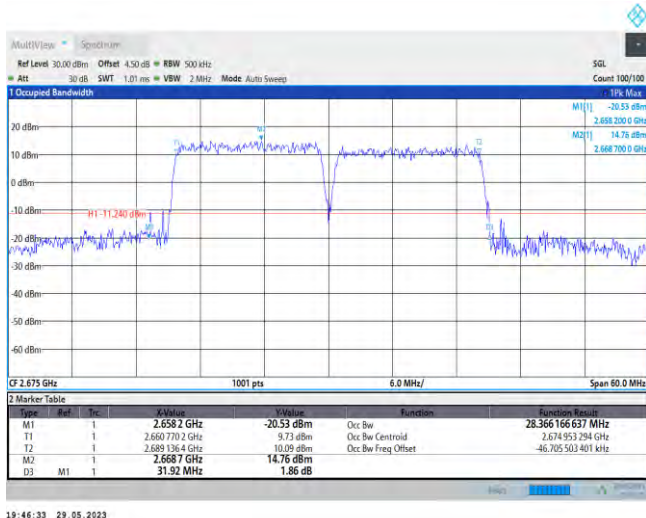
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41-41-15MHz-15MHz-QPSK-QPSK-40545-40695-75RB#0-75RB#0



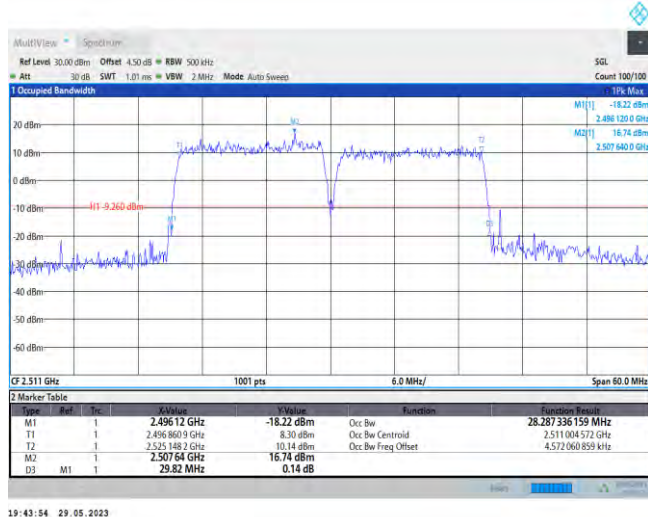
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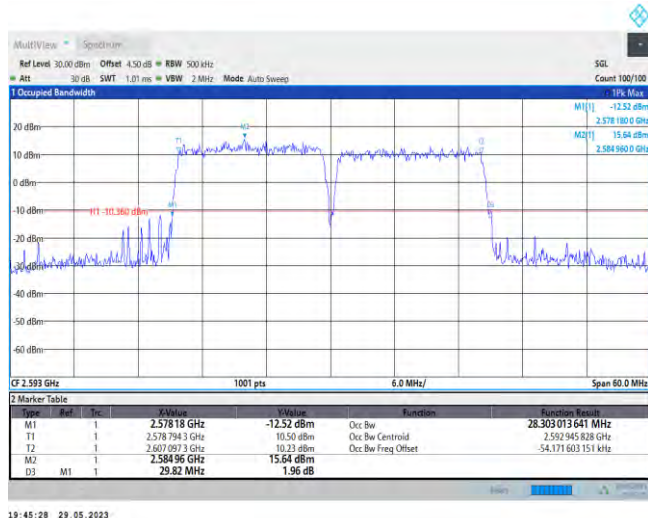
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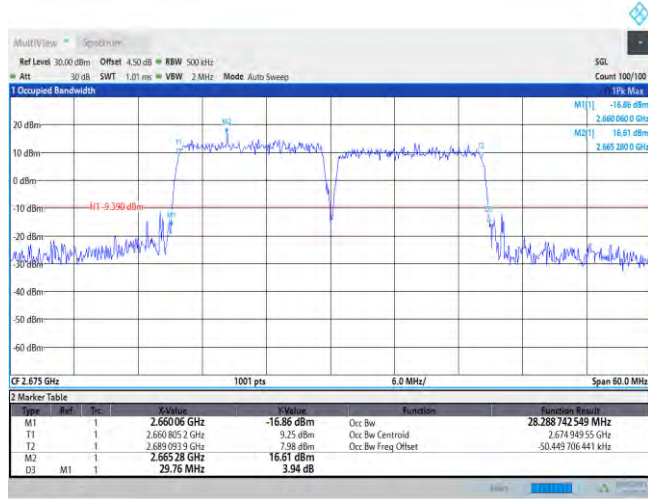


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41-41-15MHz-15MHz-16QAM-16QAM-41365-41515-75RB#0-75RB#0



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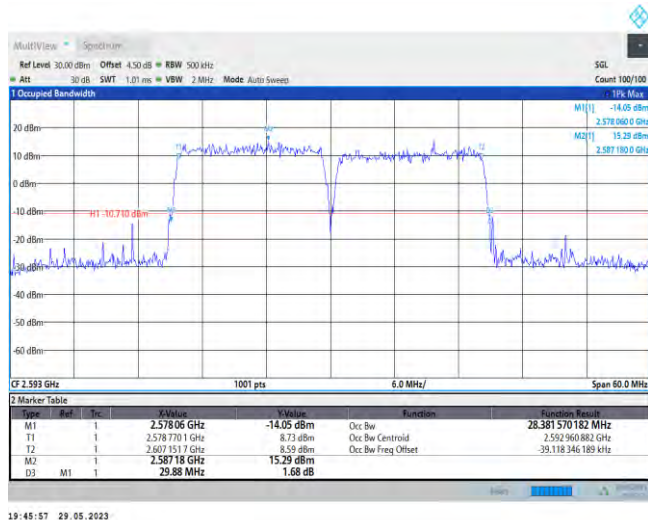


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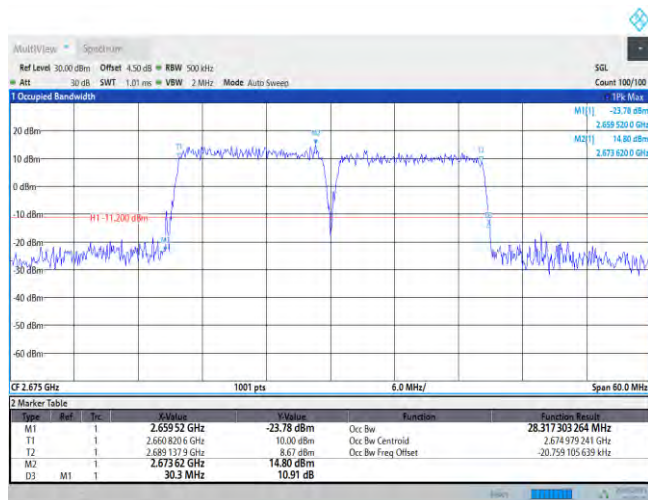
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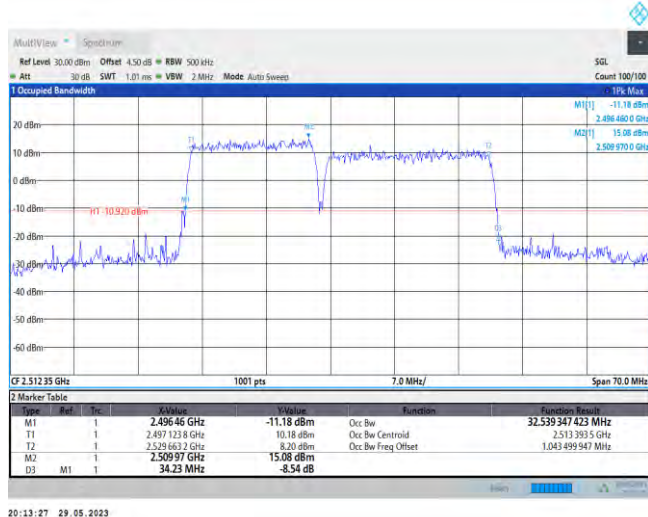
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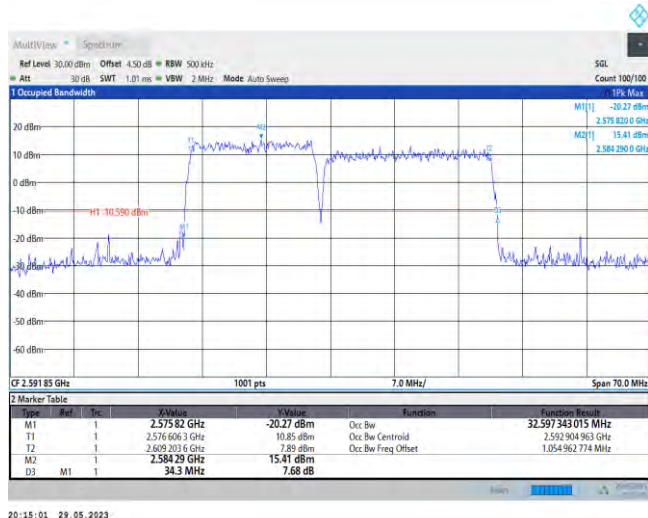
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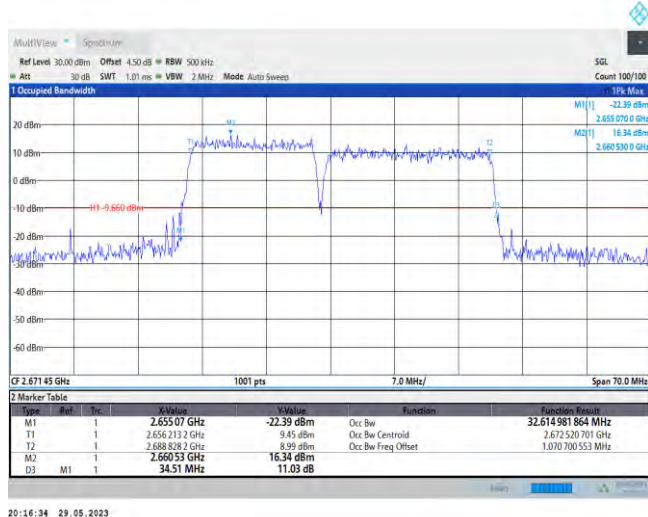


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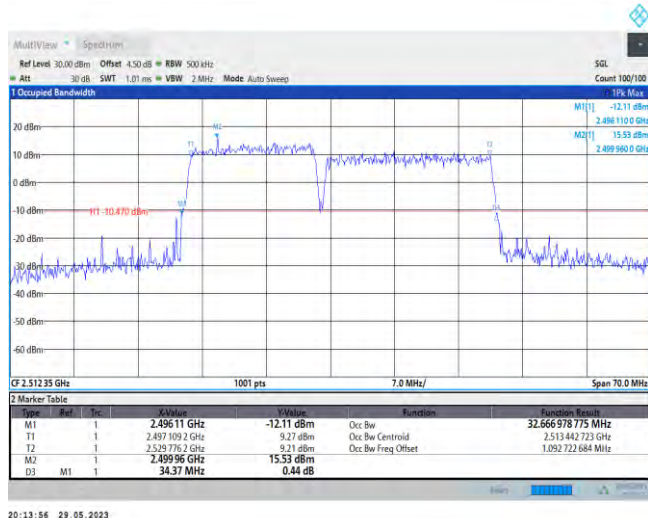
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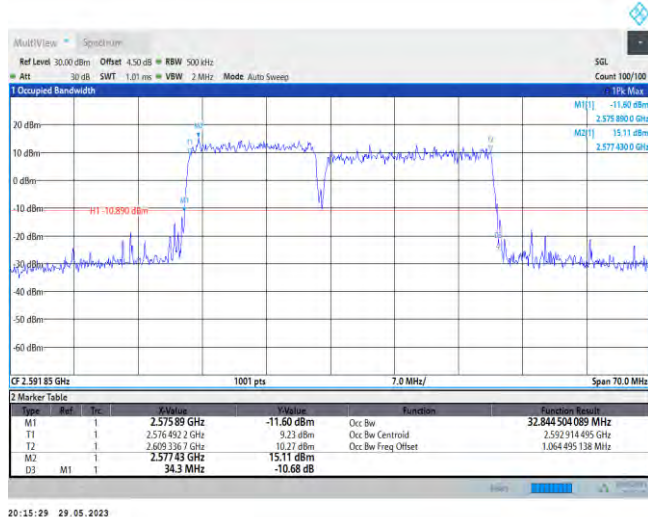


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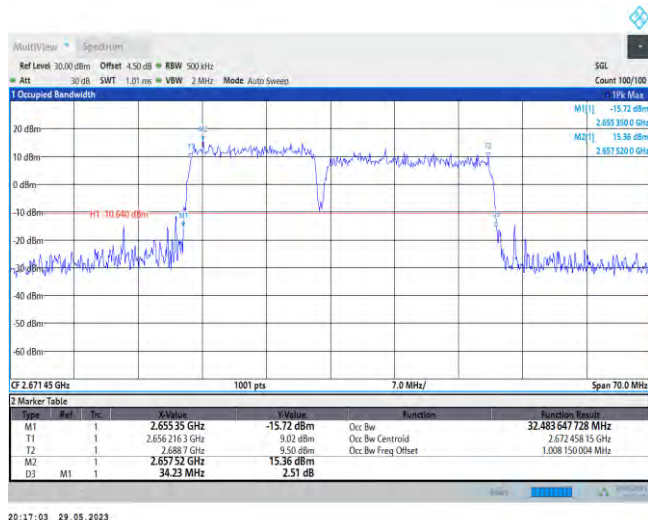
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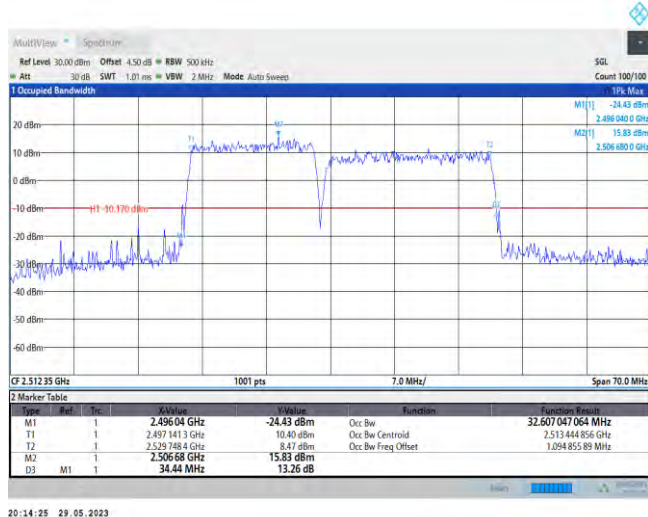
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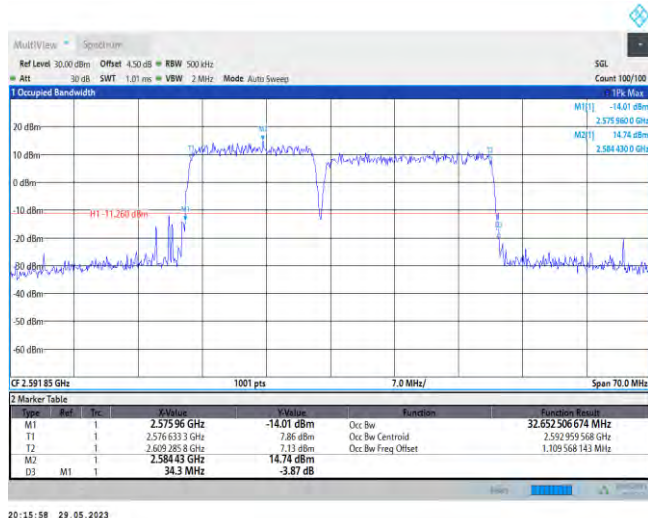


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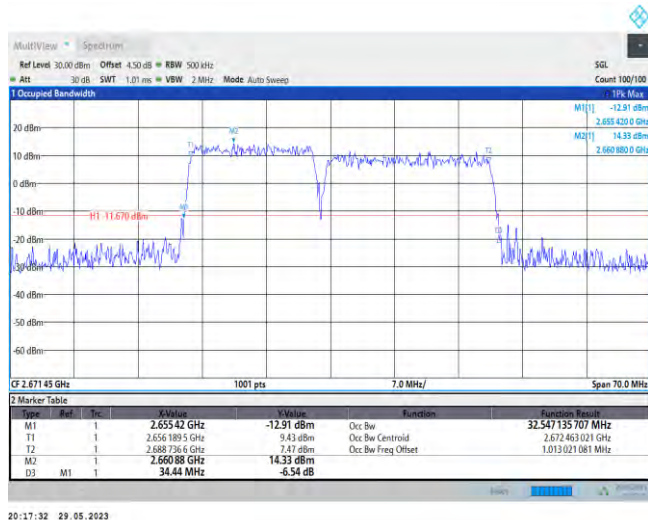
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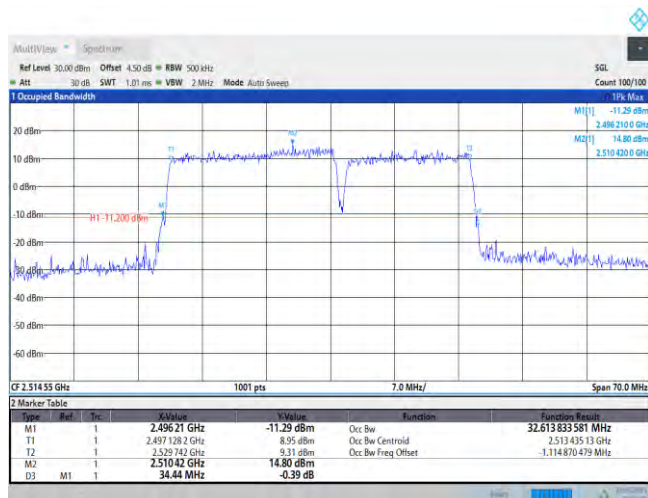
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41-41-15MHz-20MHz-64QAM-64QAM-41319-41490-75RB#0-100RB#0



20:17:32 29.05.2023

41-41-20MHz-15MHz-QPSK-QPSK-39750-39921-100RB#0-75RB#0



21:14:09 29.05.2023

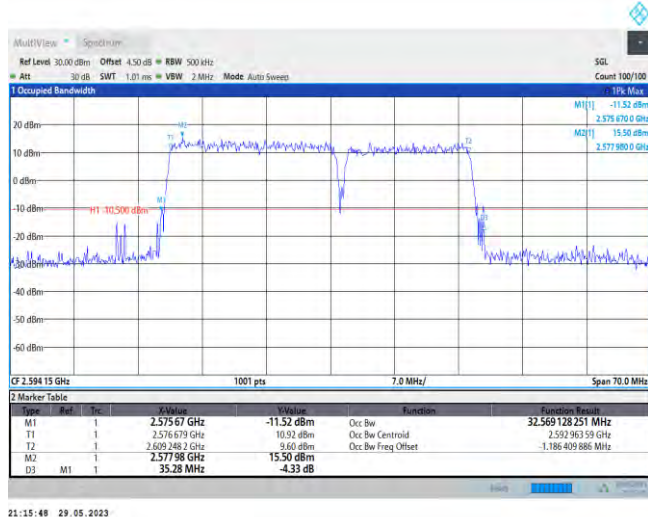


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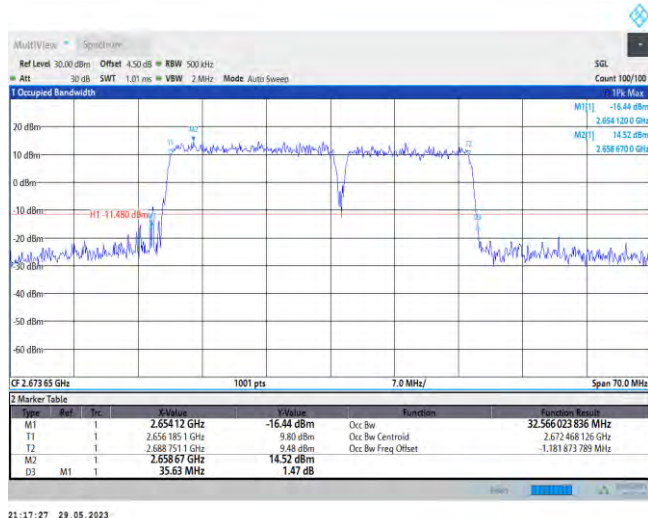
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41-41-20MHz-15MHz-QPSK-QPSK-40546-40717-100RB#0-75RB#0



21:15:48 29.05.2023

41-41-20MHz-15MHz-QPSK-QPSK-41341-41512-100RB#0-75RB#0



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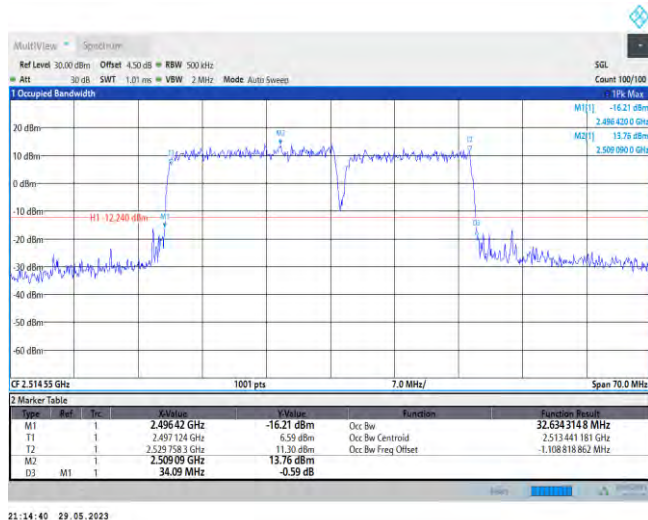


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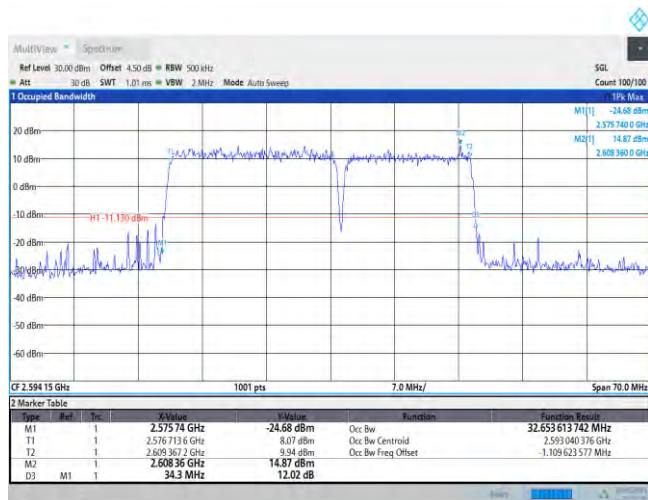
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41-41-20MHz-15MHz-16QAM-16QAM-39750-39921-100RB#0-75RB#0



21:14:40 29.05.2023

41-41-20MHz-15MHz-16QAM-16QAM-40546-40717-100RB#0-75RB#0



21:16:19 29.05.2023

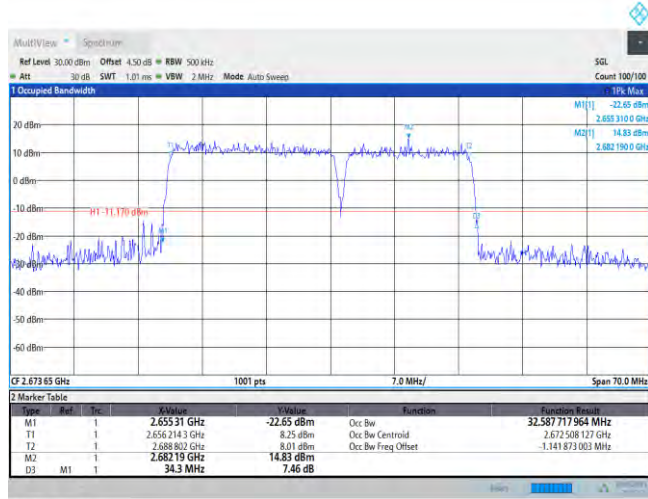


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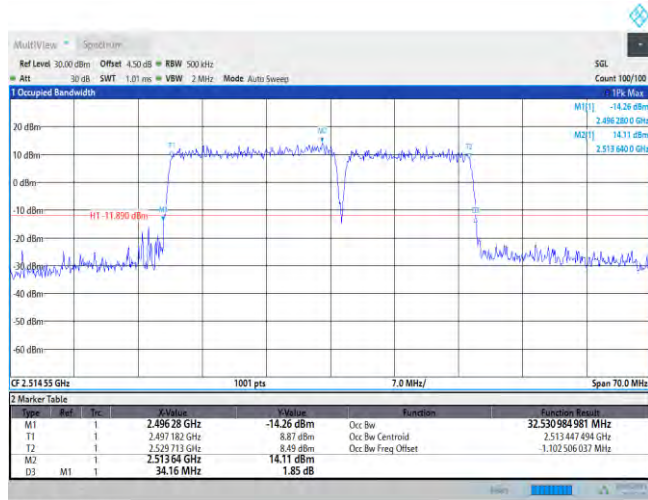
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41-41-20MHz-15MHz-16QAM-16QAM-41341-41512-100RB#0-75RB#0



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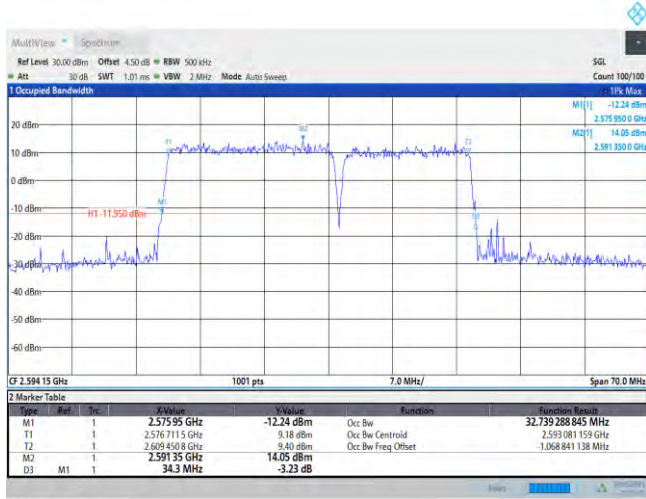


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41-41-20MHz-15MHz-64QAM-64QAM-40546-40717-100RB#0-75RB#0



21:16:49 29.05.2023

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21:18:28 29.05.2023

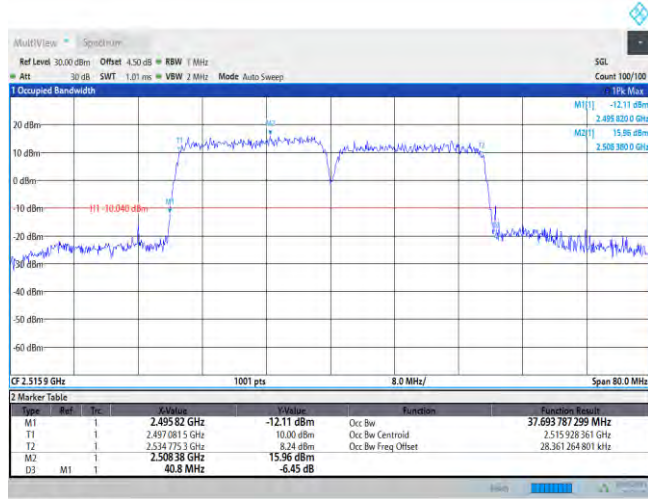


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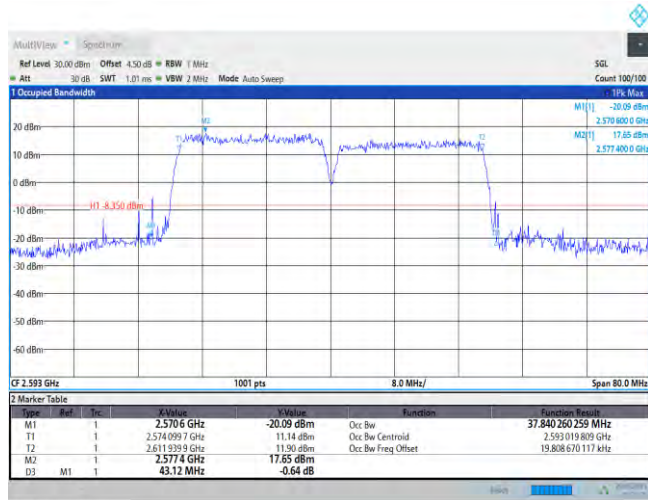
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41-41-20MHz-20MHz-QPSK-QPSK-39750-39948-100RB#0-100RB#0



21:51:20 29.05.2023

41-41-20MHz-20MHz-QPSK-QPSK-40521-40719-100RB#0-100RB#0



21:52:59 29.05.2023

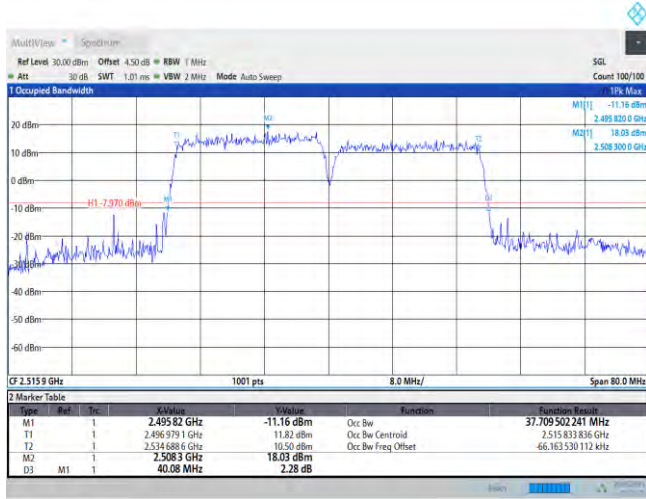


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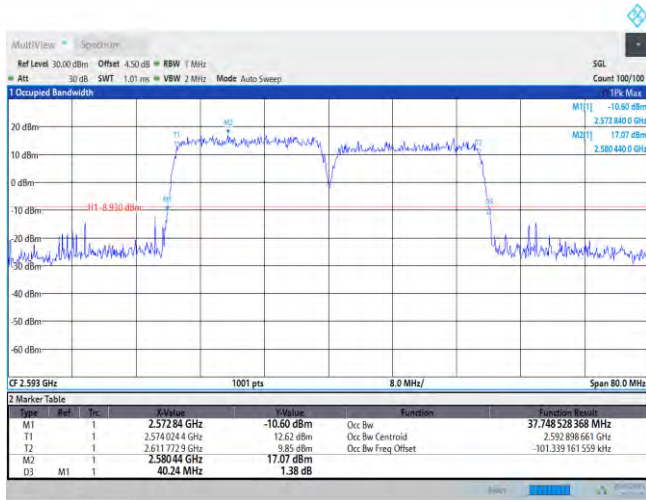
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41-41-20MHz-20MHz-16QAM-16QAM-39750-39948-100RB#0-100RB#0



21:51:51 29.05.2023

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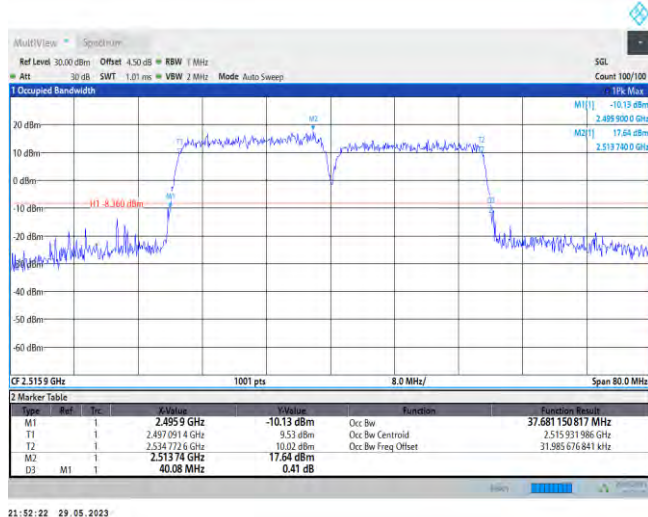
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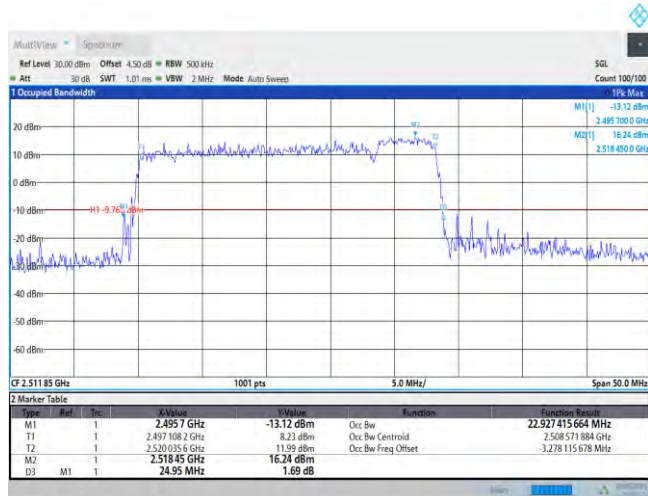


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21:52:22 29.05.2023

41-41-20MHz-5MHz-QPSK-QPSK-39750-39867-100RB#0-25RB#0



20:43:54 29.05.2023

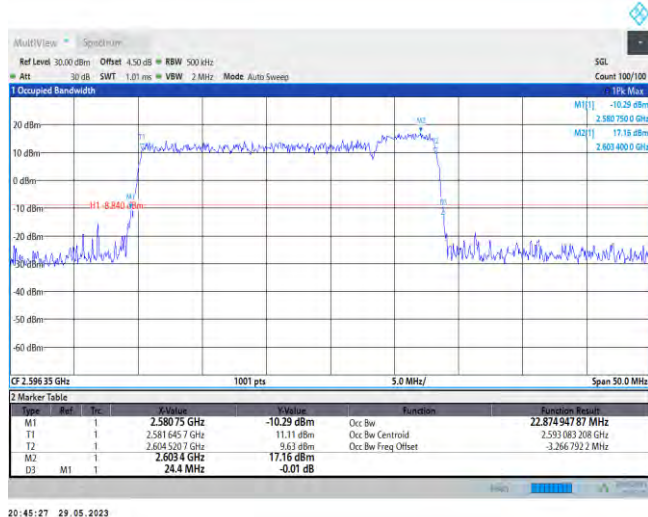


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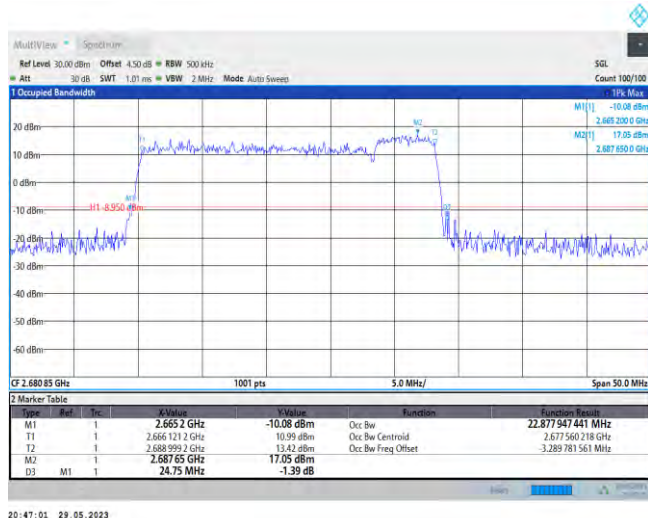
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20:45:27 29.05.2023

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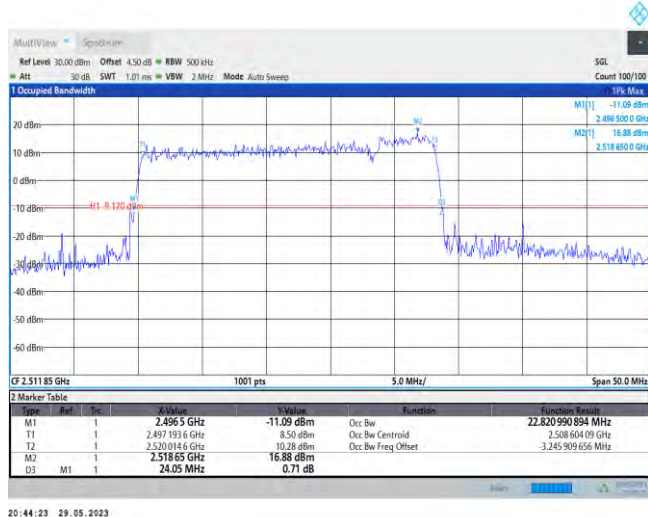
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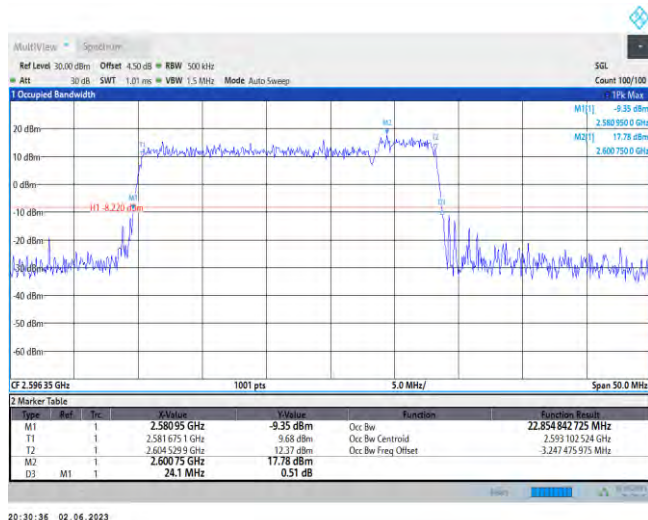
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41-41-20MHz-5MHz-16QAM-16QAM-39750-39867-100RB#0-25RB#0



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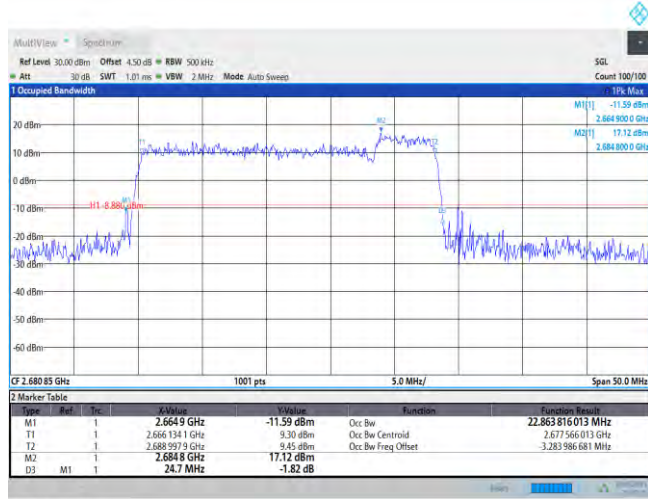


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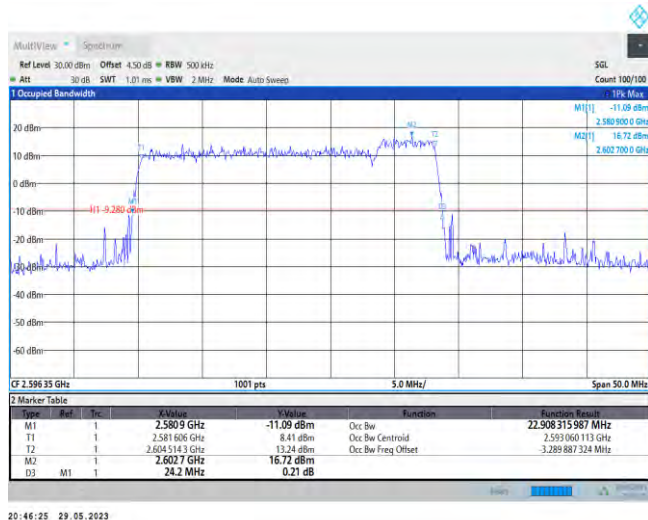


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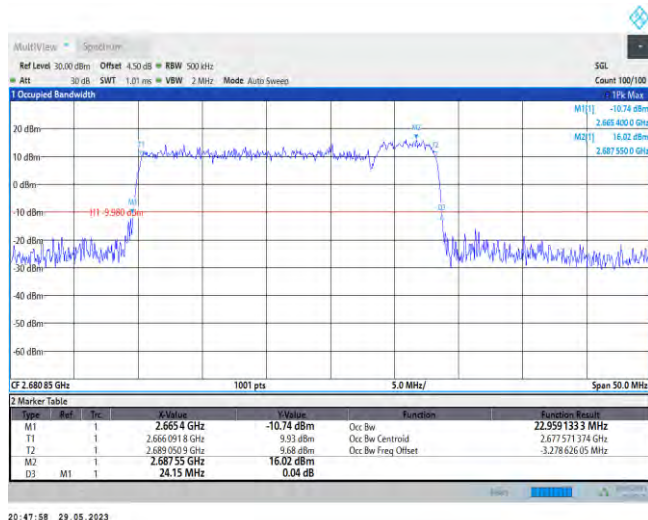
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41-41-20MHz-5MHz-64QAM-64QAM-40595-40712-100RB#0-25RB#0



41-41-20MHz-5MHz-64QAM-64QAM-41440-41557-100RB#0-25RB#0

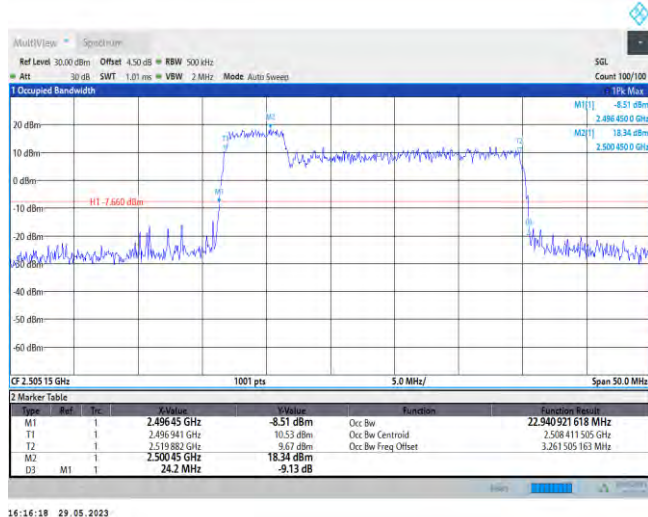


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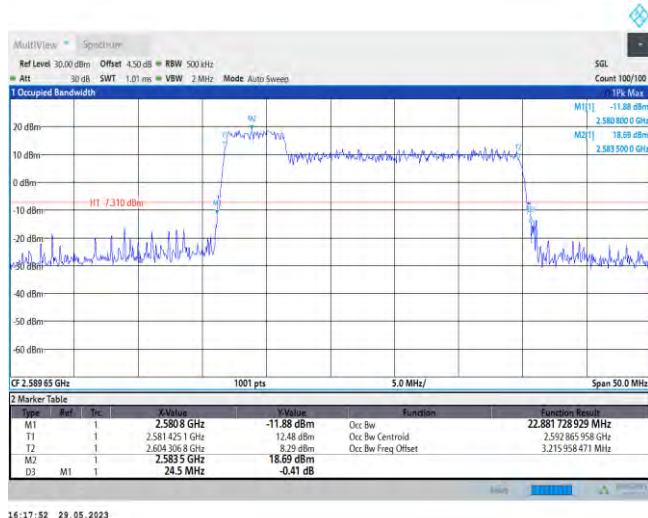
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41-41-5MHz-20MHz-QPSK-QPSK-39683-39800-25RB#0-100RB#0



41-41-5MHz-20MHz-QPSK-QPSK-40528-40645-25RB#0-100RB#0

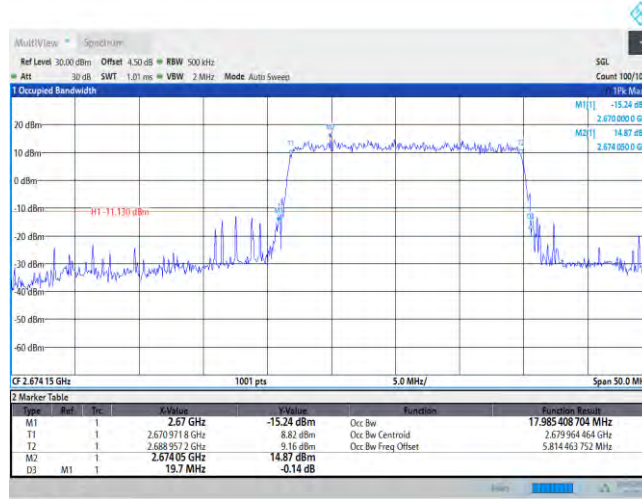


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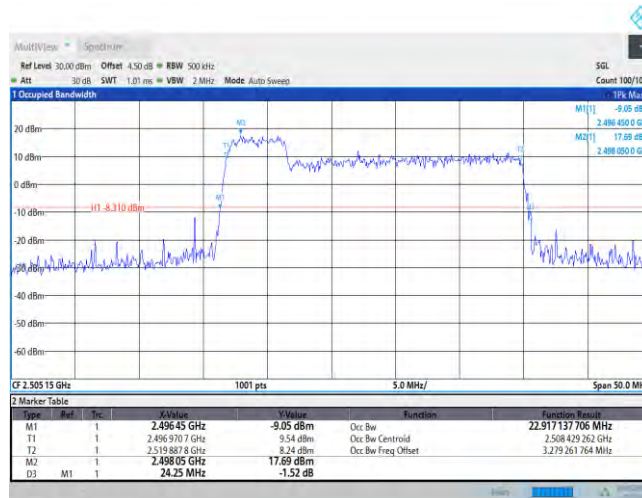
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41-41-5MHz-20MHz-QPSK-QPSK-41373-41490-25RB#0-100RB#0



16:19:22 29.05.2023

41-41-5MHz-20MHz-16QAM-16QAM-39683-39800-25RB#0-100RB#0



16:16:47 29.05.2023

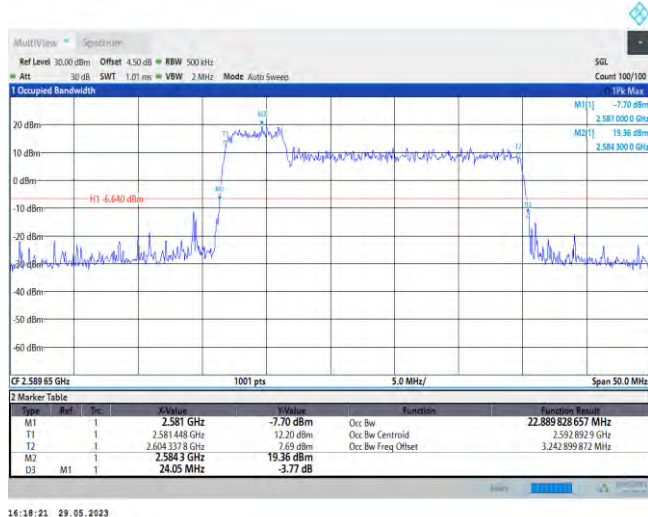


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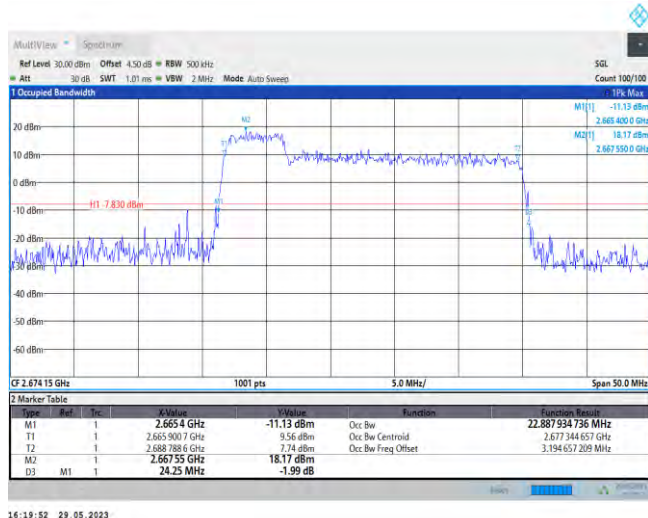
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41-41-5MHz-20MHz-16QAM-16QAM-40528-40645-25RB#0-100RB#0



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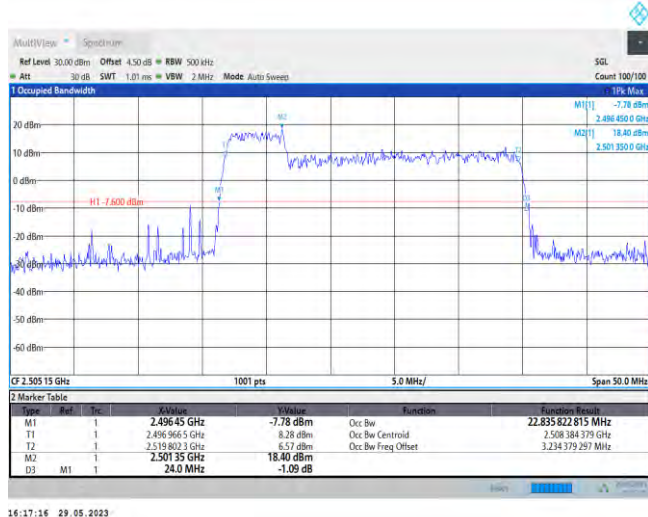
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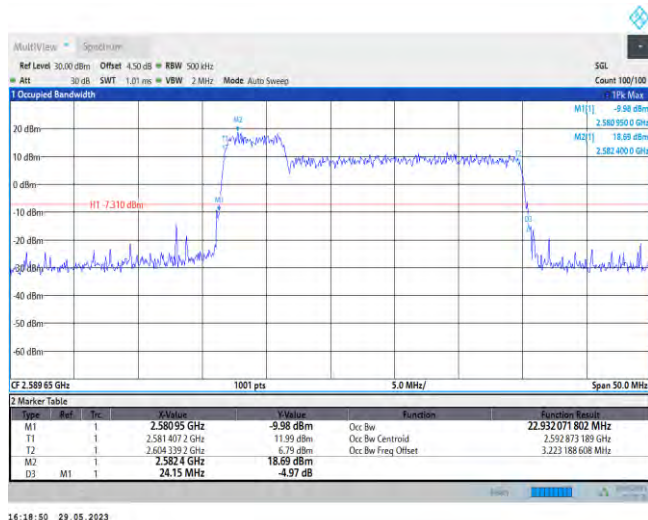
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41-41-5MHz-20MHz-64QAM-64QAM-39683-39800-25RB#0-100RB#0



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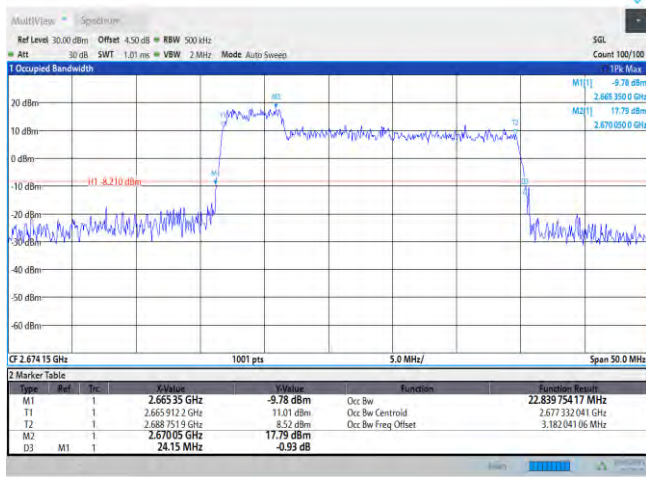


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41-41-5MHz-20MHz-64QAM-64QAM-41373-41490-25RB#0-100RB#0



16:20:21 29.05.2023



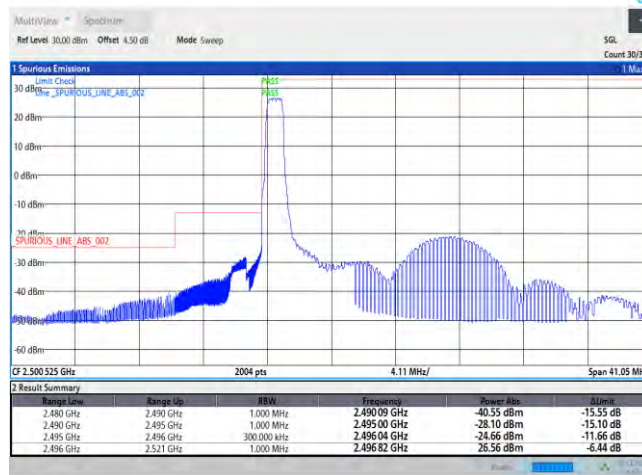
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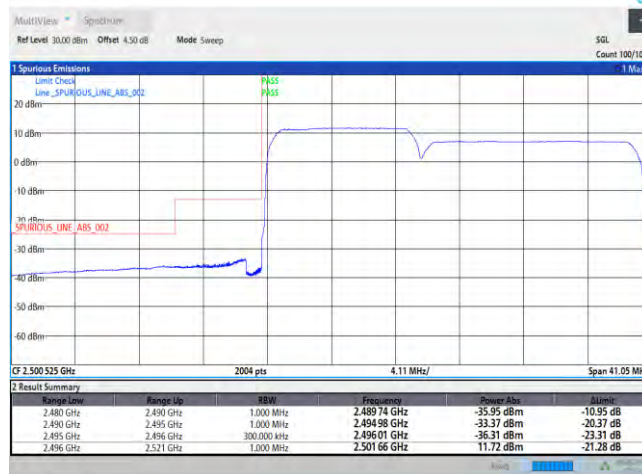
**Band Edge**  
**Test Graphs**

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14:47:12 06.06.2023

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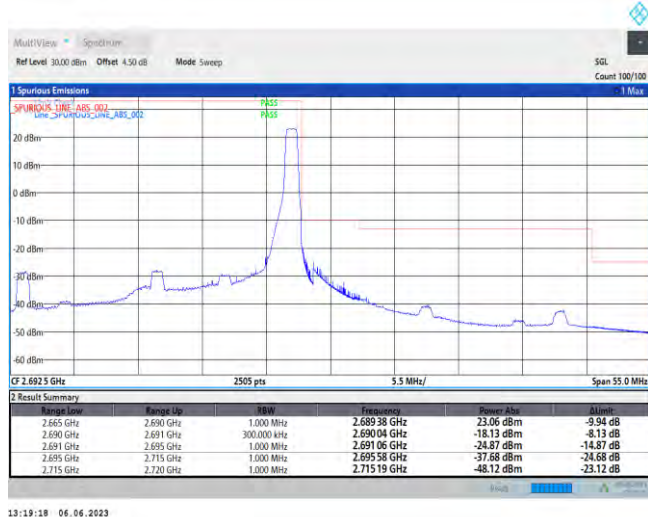
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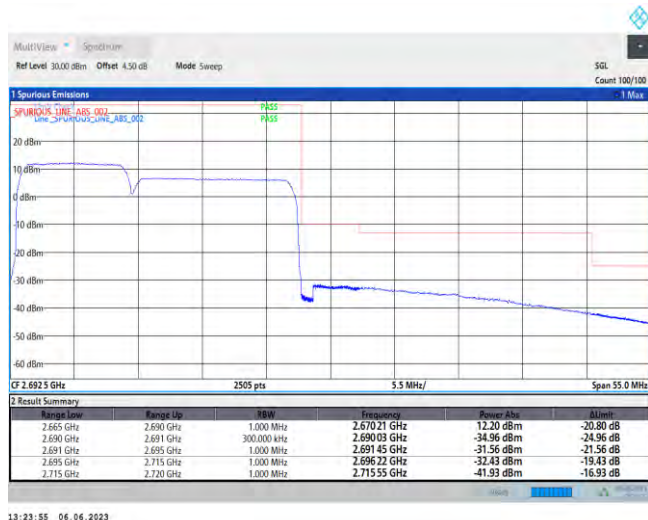
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41-41-10MHz-15MHz-QPSK-QPSK-41395-41515-0RB#0-1RB#74



41-41-10MHz-15MHz-QPSK-QPSK-41395-41515-50RB#0-75RB#0



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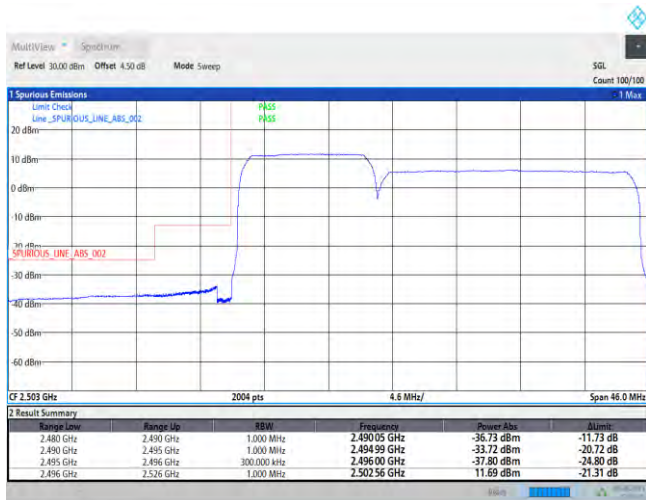
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13:42:57 06.06.2023

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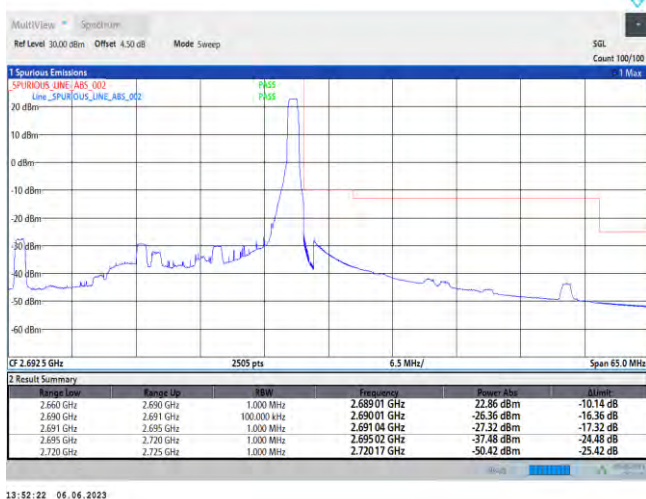


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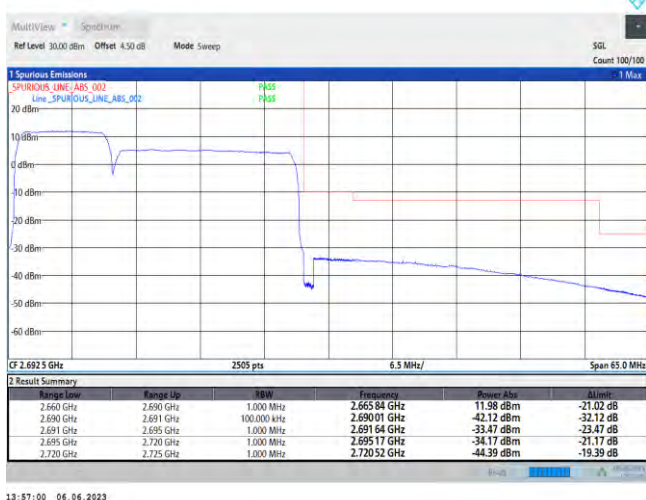
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41-41-10MHz-20MHz-QPSK-QPSK-41346-41490-0RB#0-1RB#99



13:52:22 06.06.2023

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41-41-15MHz-10MHz-QPSK-QPSK-39725-39845-1RB#0-0RB#0



14:17:35 06.06.2023

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14:21:22 06.06.2023



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14:26:55 06.06.2023

41-41-15MHz-10MHz-QPSK-QPSK-41417-41537-75RB#0-50RB#0



14:31:32 06.06.2023



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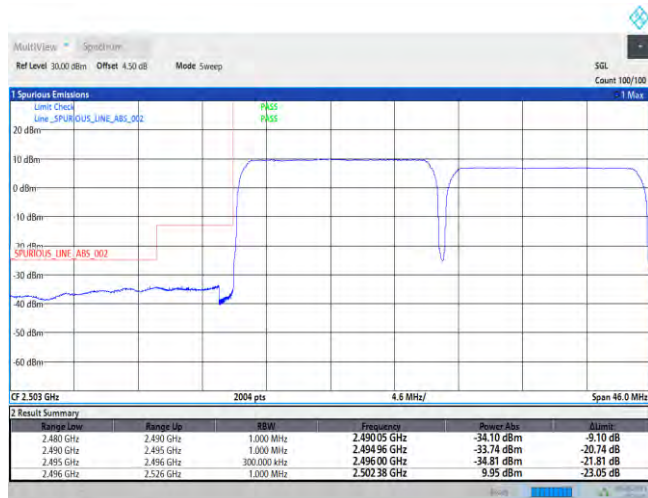


41-41-15MHz-15MHz-QPSK-QPSK-39725-39875-1RB#0-0RB#0



14:50:14 06.06.2023

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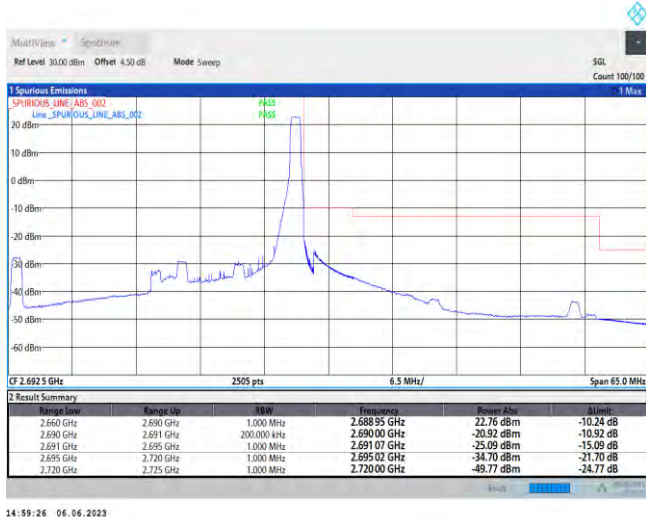


14:54:01 06.06.2023



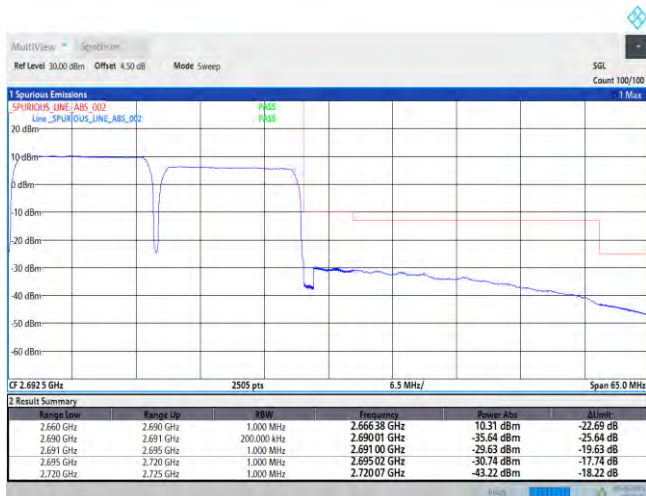
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41-41-15MHz-15MHz-QPSK-QPSK-41365-41515-0RB#0-1RB#74



14:59:26 06.06.2023

41-41-15MHz-15MHz-QPSK-QPSK-41365-41515-75RB#0-75RB#0



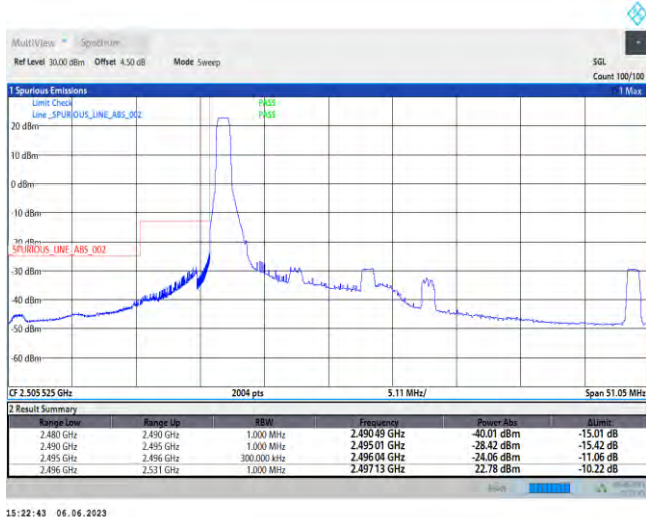
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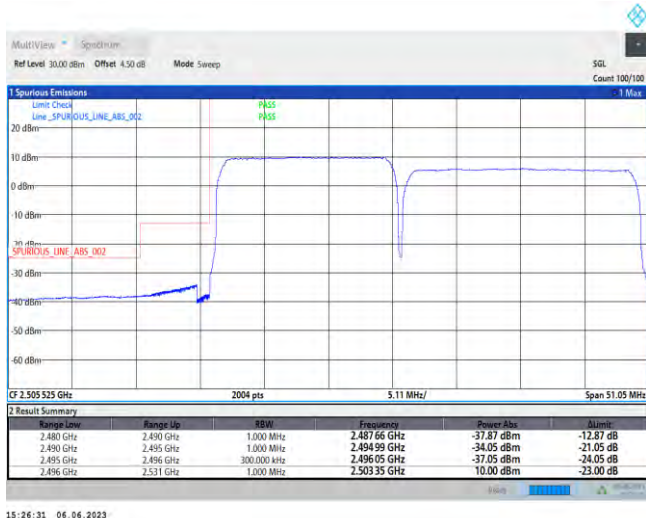
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41-41-15MHz-20MHz-QPSK-QPSK-39728-39899-1RB#0-0RB#0



15:22:43 06.06.2023

41-41-15MHz-20MHz-QPSK-QPSK-39728-39899-75RB#0-100RB#0



15:26:31 06.06.2023



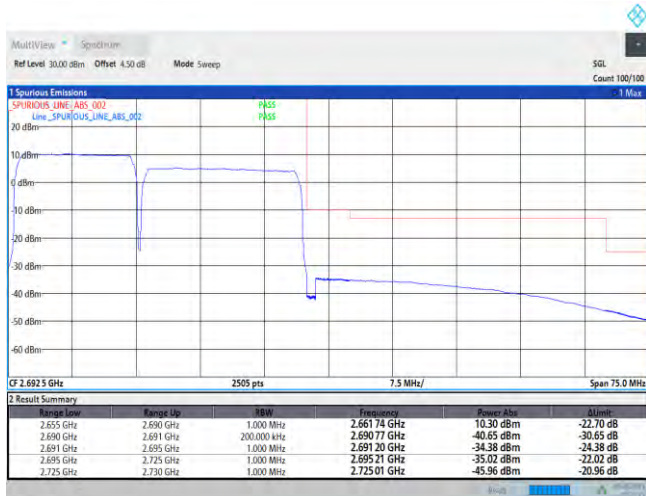
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41-41-15MHz-20MHz-QPSK-QPSK-41319-41490-0RB#0-1RB#99



15:31:36 06.06.2023

41-41-15MHz-20MHz-QPSK-QPSK-41319-41490-75RB#0-100RB#0



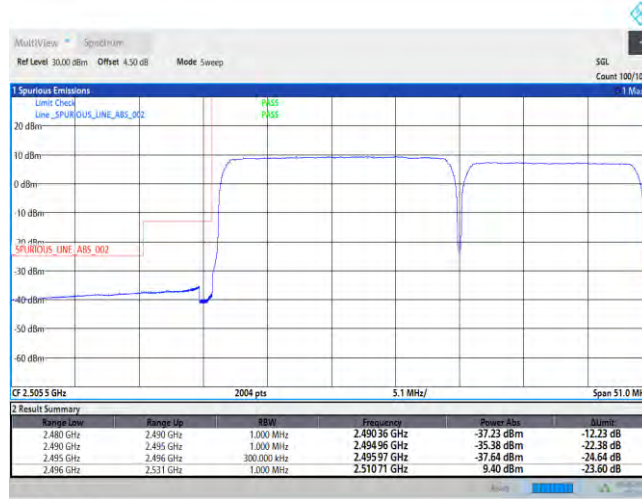
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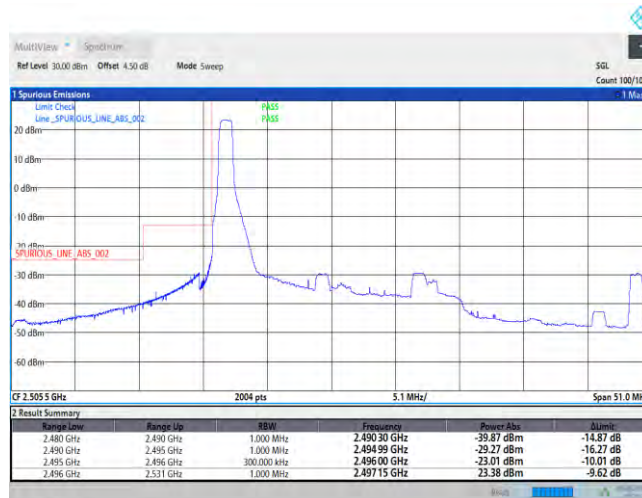
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41-41-20MHz-15MHz-QPSK-QPSK-39750-39921-100RB#0-75RB#0



21:33:43 06.06.2023

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21:29:56 06.06.2023



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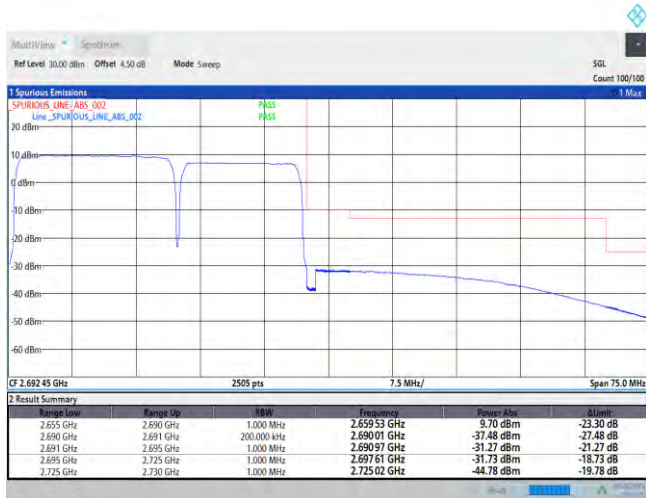
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41-41-20MHz-15MHz-QPSK-QPSK-41341-41512-0RB#0-1RB#74



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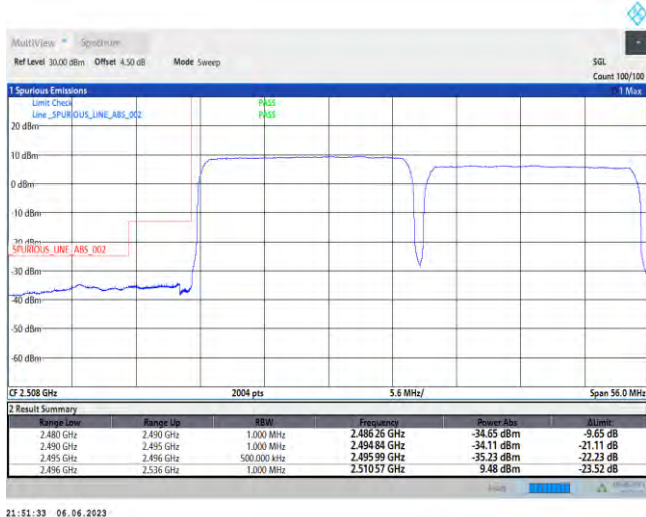
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41-41-20MHz-20MHz-QPSK-QPSK-39750-39948-100RB#0-100RB#0



21:51:33 06.06.2023

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21:47:46 06.06.2023



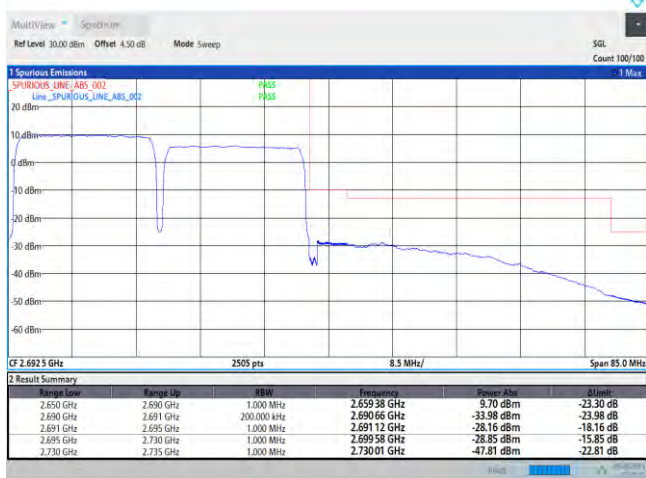
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41-41-20MHz-20MHz-QPSK-QPSK-41292-41490-0RB#0-1RB#99



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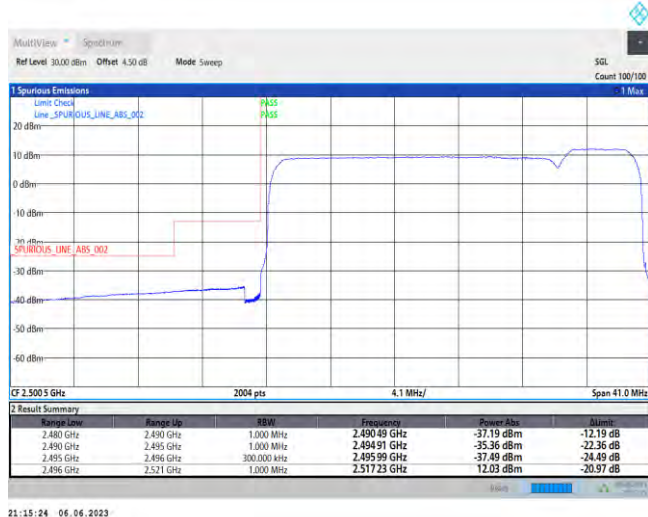


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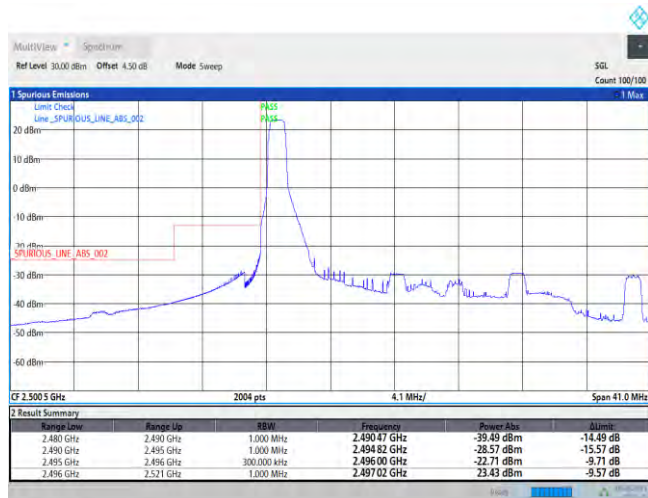


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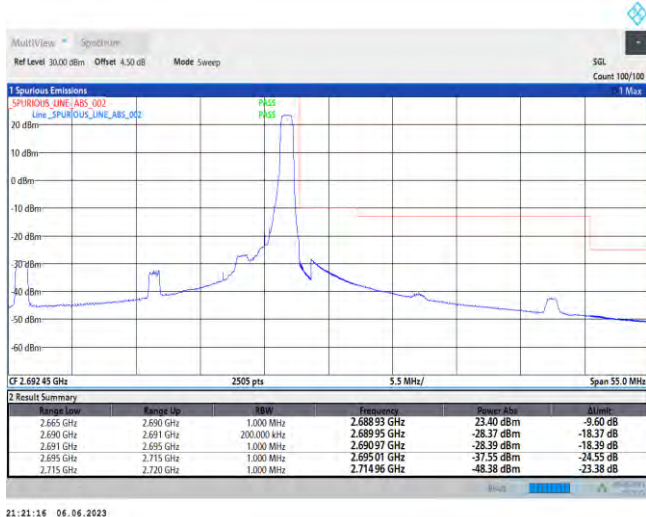
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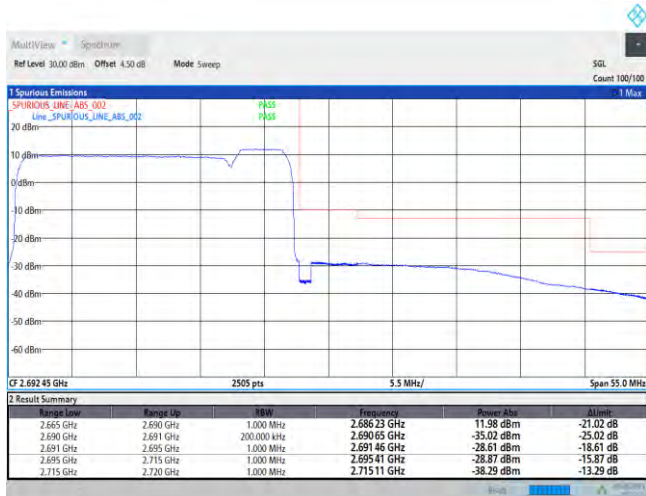
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41-41-20MHz-5MHz-QPSK-QPSK-41440-41557-0RB#0-1RB#24



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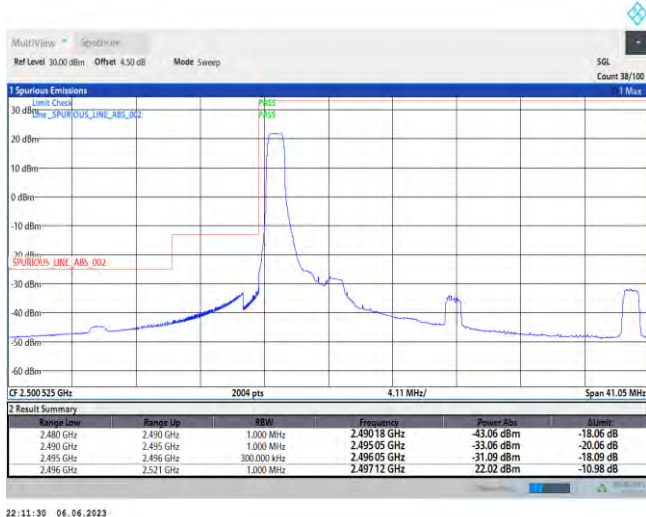
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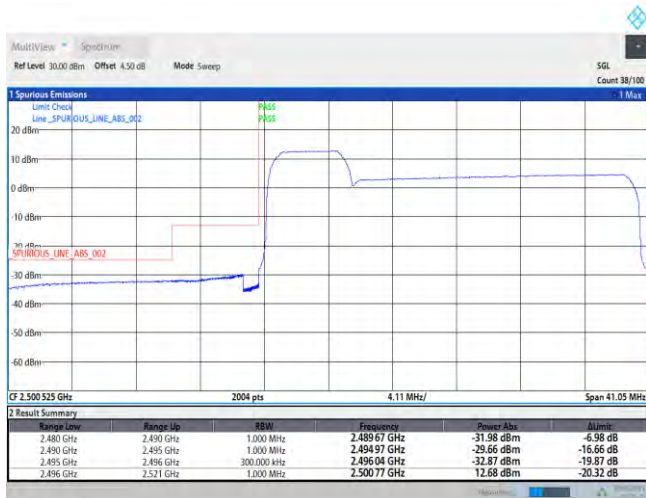
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22:11:30 06.06.2023

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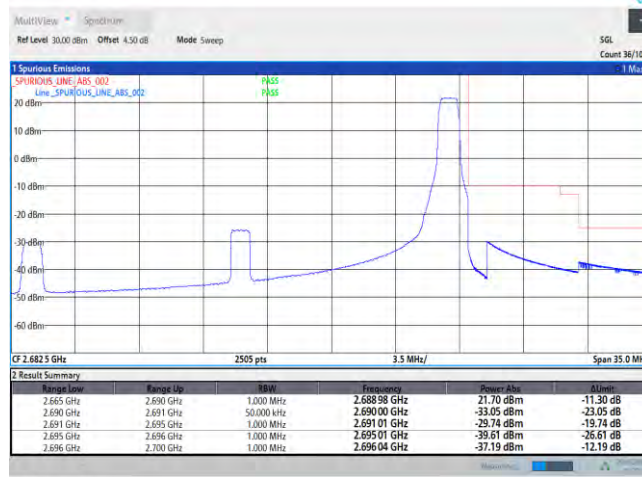


16:31:39 29.05.2023



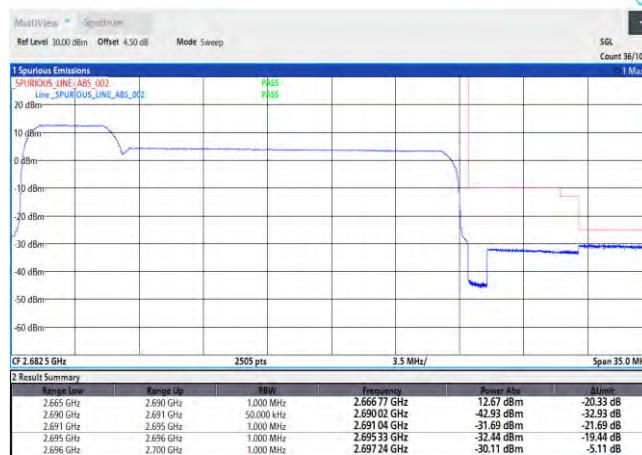
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41-41-5MHz-20MHz-QPSK-QPSK-41373-41490-0RB#0-1RB#99



16:37:29 29.05.2023

41-41-5MHz-20MHz-QPSK-QPSK-41373-41490-25RB#0-100RB#0



16:42:59 29.05.2023



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邮编: 215000

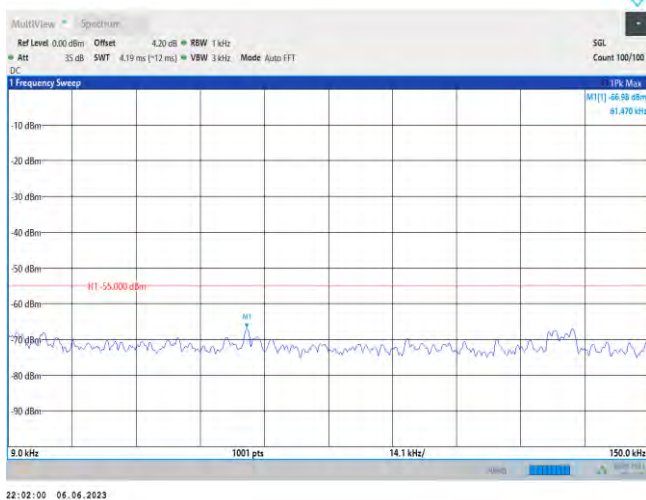
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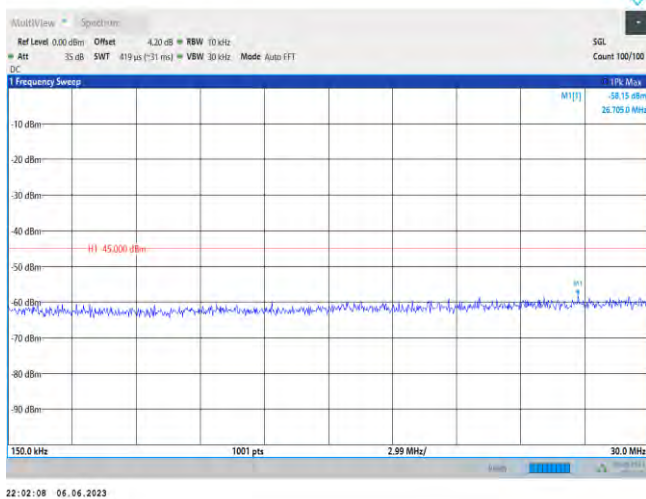
## Conducted Spurious Emission

### Test Graphs

41-41-20MHz-20MHz-QPSK-QPSK-41292-41490-1RB#0-0RB#0-0.009~0.15MHz



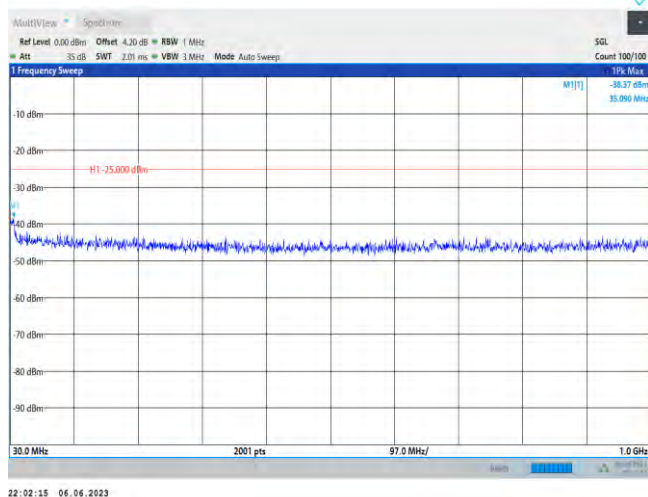
41-41-20MHz-20MHz-QPSK-QPSK-41292-41490-1RB#0-0RB#0-0.15~30MHz



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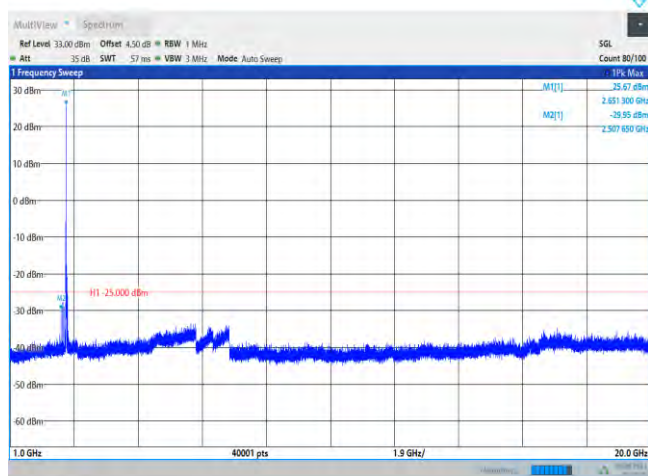
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41-41-20MHz-20MHz-QPSK-QPSK-41292-41490-1RB#0-0RB#0-30~1000MHz



22:02:15 06.06.2023

41-41-20MHz-20MHz-QPSK-QPSK-41292-41490-1RB#0-0RB#0-1000~20000MHz



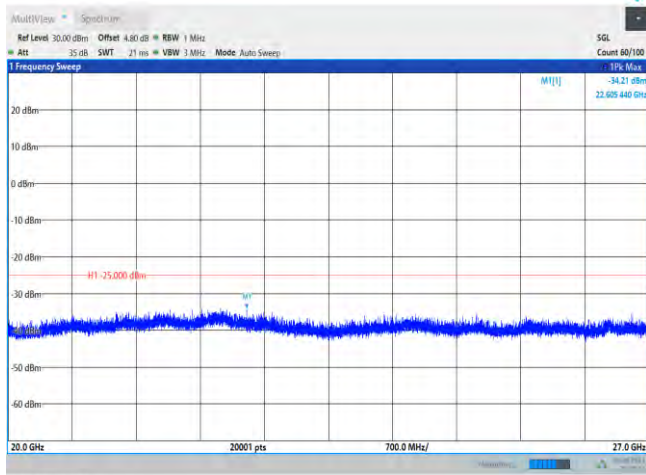
22:02:26 06.06.2023



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41-41-20MHz-20MHz-QPSK-QPSK-41292-41490-1RB#0-0RB#0-20000~27000MHz



22:02:34 06.06.2023



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### Field Strength of Spurious Radiation

Test Band = UL CA\_41C\_TM1\_Ant13

Test Channel = Low Channel

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4994.18	42.04	-44.94	32.59	-65.57	-25.00	40.57	211	2	Horizontal
2	7491.27	39.61	-41.63	36.49	-60.79	-25.00	35.79	145	155	Horizontal
3	9988.36	34.15	-37.16	38.50	-59.77	-25.00	34.77	261	51	Horizontal
4	12485.45	32.86	-35.26	39.09	-58.57	-25.00	33.57	192	258	Horizontal
5	14982.54	31.60	-33.99	39.22	-58.43	-25.00	33.43	135	70	Horizontal
6	17479.63	30.96	-31.91	40.52	-55.69	-25.00	30.69	208	92	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4994.18	42.06	-44.94	32.59	-65.55	-25.00	40.55	294	95	Vertical
2	7491.27	39.00	-41.63	36.49	-61.40	-25.00	36.40	275	260	Vertical
3	9988.36	34.57	-37.16	38.50	-59.35	-25.00	34.35	164	0	Vertical
4	12485.45	32.36	-35.26	39.09	-59.07	-25.00	34.07	284	4	Vertical
5	14982.54	32.38	-33.99	39.22	-57.65	-25.00	32.65	163	0	Vertical
6	17479.63	31.71	-31.91	40.52	-54.94	-25.00	29.94	201	0	Vertical



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Test Band = UL CA\_41C\_TM1\_Ant13  
 Test Channel = Mid Channel

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4208	43.38	-45.01	30.93	-65.96	-25.00	40.96	217	179	Horizontal
2	7722.5	45.11	-41.17	36.95	-54.38	-25.00	29.38	189	49	Horizontal
3	5148.38	49.57	-44.22	32.60	-57.31	-25.00	32.31	247	49	Horizontal
4	10296.76	35.30	-36.82	38.83	-57.95	-25.00	32.95	159	217	Horizontal
5	12870.95	33.52	-34.93	39.47	-57.20	-25.00	32.20	208	258	Horizontal
6	15445.14	32.73	-34.01	38.62	-57.92	-25.00	32.92	179	49	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3970	44.58	-45.46	30.53	-65.61	-25.00	40.61	124	29	Vertical
2	5148.38	51.68	-44.22	32.60	-55.20	-25.00	30.20	185	92	Vertical
3	7722.57	42.10	-41.17	36.95	-57.38	-25.00	32.38	216	92	Vertical
4	10296.76	34.21	-36.82	38.83	-59.04	-25.00	34.04	279	92	Vertical
5	12870.95	32.21	-34.93	39.47	-58.51	-25.00	33.51	233	51	Vertical
6	15445.14	30.96	-34.01	38.62	-59.69	-25.00	34.69	309	51	Vertical



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Test Band = UL CA\_41C\_TM1\_Ant13  
 Test Channel = High Channel

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4088	43.96	-45.05	30.74	-65.61	-25.00	40.61	174	255	Horizontal
2	5302.58	46.32	-44.02	32.60	-60.36	-25.00	35.36	246	89	Horizontal
3	7953.87	44.97	-40.52	37.41	-53.40	-25.00	28.40	153	215	Horizontal
4	10605.16	34.12	-36.13	39.17	-58.11	-25.00	33.11	295	357	Horizontal
5	13256.45	32.51	-35.05	39.75	-58.05	-25.00	33.05	241	111	Horizontal
6	15907.54	30.26	-33.71	38.02	-60.69	-25.00	35.69	203	255	Horizontal

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	44.63	-45.46	30.52	-65.57	-25.00	40.57	226	357	Vertical
2	5302.5	49.53	-44.01	32.60	-57.14	-25.00	32.14	183	71	Vertical
3	7953.5	44.30	-40.52	37.41	-54.07	-25.00	29.07	295	71	Vertical
4	10605.16	33.50	-36.13	39.17	-58.73	-25.00	33.73	174	258	Vertical
5	13256.45	31.65	-35.05	39.75	-58.91	-25.00	33.91	248	215	Vertical
6	15907.54	30.44	-33.71	38.02	-60.51	-25.00	35.51	162	280	Vertical



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Test Band = UL CA\_41C\_TM1\_Ant31  
 Test Channel = Low Channel

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4994.18	50.31	-44.94	32.59	-57.30	-25.00	32.30	184	28	Horizontal
2	7491.27	45.81	-41.63	36.49	-54.59	-25.00	29.59	279	300	Horizontal
3	9988.36	34.15	-37.16	38.50	-59.77	-25.00	34.77	166	47	Horizontal
4	12485.45	32.82	-35.26	39.09	-58.61	-25.00	33.61	245	108	Horizontal
5	14982.54	31.56	-33.99	39.22	-58.47	-25.00	33.47	186	300	Horizontal
6	17479.63	30.05	-31.91	40.52	-56.60	-25.00	31.60	203	28	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4994.18	51.04	-44.94	32.59	-56.57	-25.00	31.57	168	297	Vertical
2	7491.27	43.61	-41.63	36.49	-56.79	-25.00	31.79	298	319	Vertical
3	9988.36	34.42	-37.16	38.50	-59.50	-25.00	34.50	274	174	Vertical
4	12485.45	31.56	-35.26	39.09	-59.87	-25.00	34.87	165	133	Vertical
5	14982.54	32.21	-33.99	39.22	-57.82	-25.00	32.82	208	297	Vertical
6	17479.63	29.89	-31.91	40.52	-56.76	-25.00	31.76	247	71	Vertical



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**Test Band = UL CA\_41C\_TM1\_Ant31**  
**Test Channel = Mid Channel**

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6204.5	42.57	-42.70	34.61	-60.78	-25.00	35.78	258	133	Horizontal
2	7722.5	42.44	-41.17	36.95	-57.05	-25.00	32.05	194	52	Horizontal
3	5148.38	49.87	-44.22	32.60	-57.01	-25.00	32.01	266	297	Horizontal
4	10296.76	33.82	-36.82	38.83	-59.43	-25.00	34.43	235	319	Horizontal
5	12870.95	33.02	-34.93	39.47	-57.70	-25.00	32.70	185	133	Horizontal
6	15445.14	29.61	-34.01	38.62	-61.04	-25.00	36.04	192	319	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6289	42.53	-42.81	34.78	-60.76	-25.00	35.76	219	22	Vertical
2	5148.38	47.43	-44.22	32.60	-59.45	-25.00	34.45	267	150	Vertical
3	7722.57	39.50	-41.17	36.95	-59.98	-25.00	34.98	148	87	Vertical
4	10296.76	33.15	-36.82	38.83	-60.10	-25.00	35.10	309	1	Vertical
5	12870.95	32.34	-34.93	39.47	-58.38	-25.00	33.38	244	357	Vertical
6	15445.14	30.14	-34.01	38.62	-60.51	-25.00	35.51	156	150	Vertical



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Test Band = UL CA\_41C\_TM1\_Ant31  
 Test Channel = High Channel

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6218	42.27	-42.71	34.64	-61.07	-25.00	36.07	148	280	Horizontal
2	5302.58	42.12	-44.02	32.60	-64.56	-25.00	39.56	292	300	Horizontal
3	7953.87	37.98	-40.52	37.41	-60.39	-25.00	35.39	168	218	Horizontal
4	10605.16	32.67	-36.13	39.17	-59.56	-25.00	34.56	203	78	Horizontal
5	13256.45	31.70	-35.05	39.75	-58.86	-25.00	33.86	166	138	Horizontal
6	15907.54	30.36	-33.71	38.02	-60.59	-25.00	35.59	301	179	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6778	41.61	-42.57	35.76	-60.46	-25.00	35.46	278	147	Vertical
2	5302.58	41.45	-44.02	32.60	-65.23	-25.00	40.23	149	147	Vertical
3	7953.87	39.46	-40.52	37.41	-58.91	-25.00	33.91	286	65	Vertical
4	10605.16	32.70	-36.13	39.17	-59.53	-25.00	34.53	274	0	Vertical
5	13256.45	31.99	-35.05	39.75	-58.57	-25.00	33.57	140	274	Vertical
6	15907.54	29.90	-33.71	38.02	-61.05	-25.00	36.05	135	3	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
41-41	20MHz-20MHz	QPSK-QPSK	40521-40719	100RB#0-100RB#0	VH	NT	24.30	0.009407	PASS
41-41	20MHz-20MHz	QPSK-QPSK	40521-40719	100RB#0-100RB#0	VL	NT	23.30	0.009020	PASS
41-41	20MHz-20MHz	QPSK-QPSK	40521-40719	100RB#0-100RB#0	VN	NT	23.00	0.008904	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
41-41	20MHz-20MHz	QPSK-QPSK	40521-40719	100RB#0-100RB#0	NV	50	25.90	0.010027	PASS
41-41	20MHz-20MHz	QPSK-QPSK	40521-40719	100RB#0-100RB#0	NV	40	25.10	0.009717	PASS
41-41	20MHz-20MHz	QPSK-QPSK	40521-40719	100RB#0-100RB#0	NV	30	25.20	0.009756	PASS
41-41	20MHz-20MHz	QPSK-QPSK	40521-40719	100RB#0-100RB#0	NV	20	24.90	0.009640	PASS
41-41	20MHz-20MHz	QPSK-QPSK	40521-40719	100RB#0-100RB#0	NV	10	23.20	0.008981	PASS
41-41	20MHz-20MHz	QPSK-QPSK	40521-40719	100RB#0-100RB#0	NV	0	25.30	0.009794	PASS
41-41	20MHz-20MHz	QPSK-QPSK	40521-40719	100RB#0-100RB#0	NV	-10	25.30	0.009794	PASS
41-41	20MHz-20MHz	QPSK-QPSK	40521-40719	100RB#0-100RB#0	NV	-20	24.50	0.009485	PASS
41-41	20MHz-20MHz	QPSK-QPSK	40521-40719	100RB#0-100RB#0	NV	-30	24.30	0.009407	PASS

---End of Attachment---



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