

Report No.: SEWA2310000121RG01

Rev.: 01

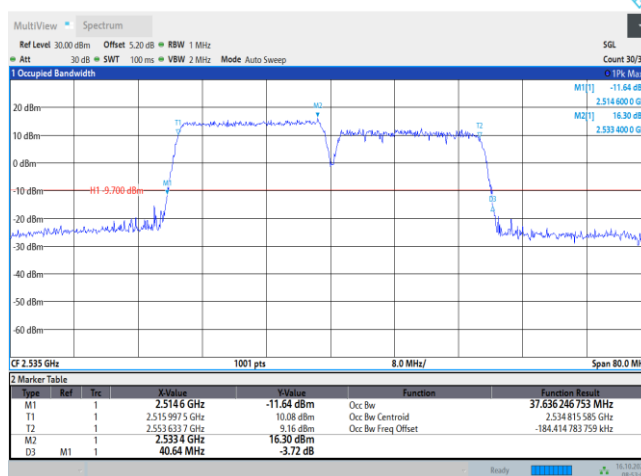
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7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-100RB#0-100RB#0



08:52:33 16.10.2023

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



08:53:04 16.10.2023



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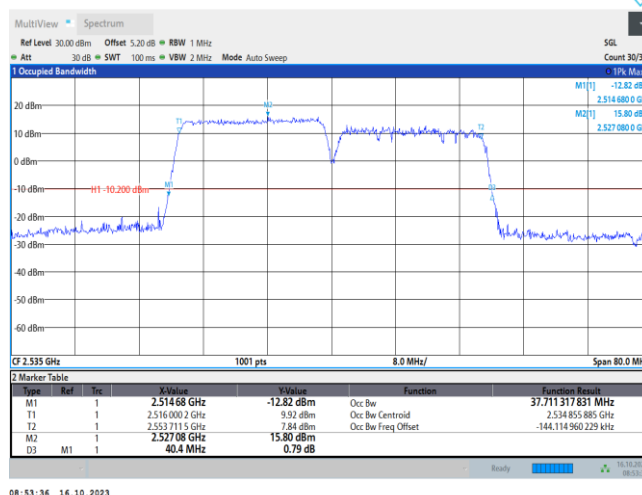
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7-7-20MHz-20MHz-64QAM-64QAM-21001-21199-100RB#0-100RB#0



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



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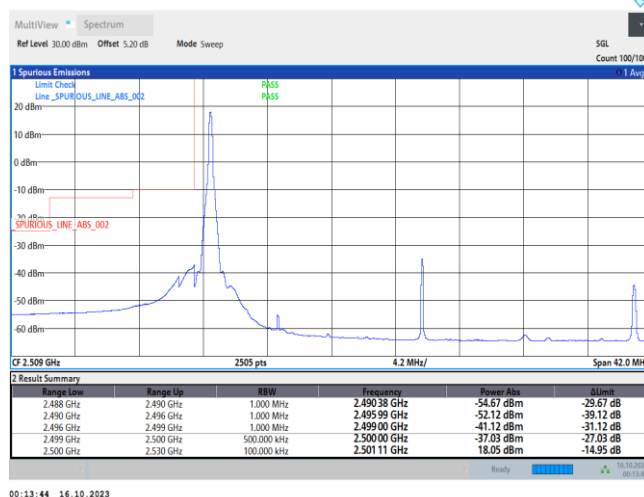
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Band Edge

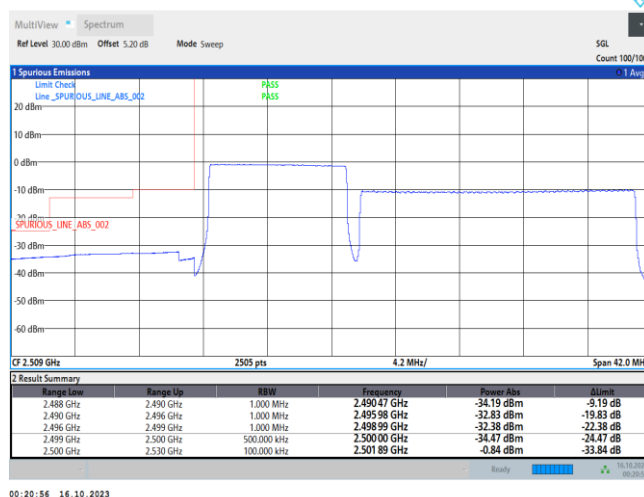
Test Graphs

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



00:13:44 16.10.2023

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



00:20:56 16.10.2023



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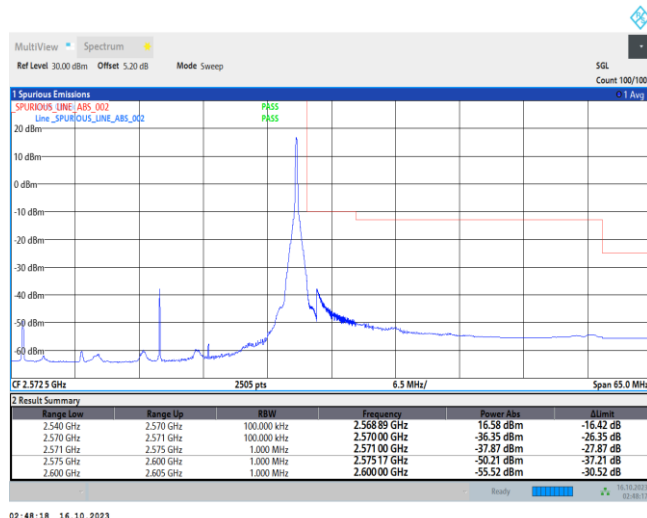
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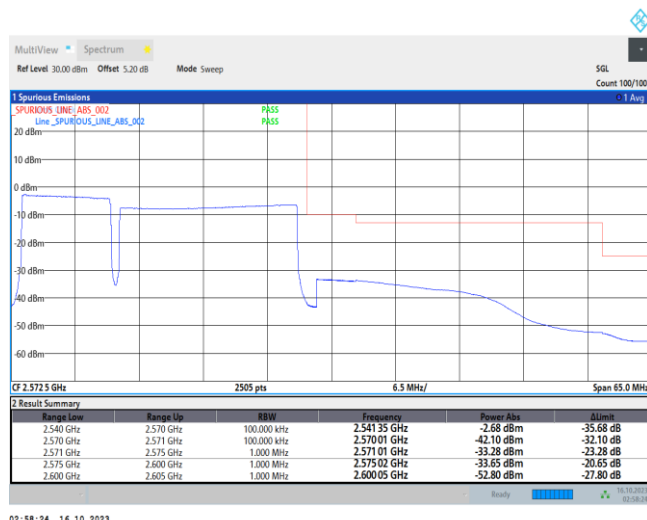
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7-7-10MHz-20MHz-QPSK-QPSK-21206-21350-0RB#0-1RB#99



02:48:18 16.10.2023

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02:58:24 16.10.2023



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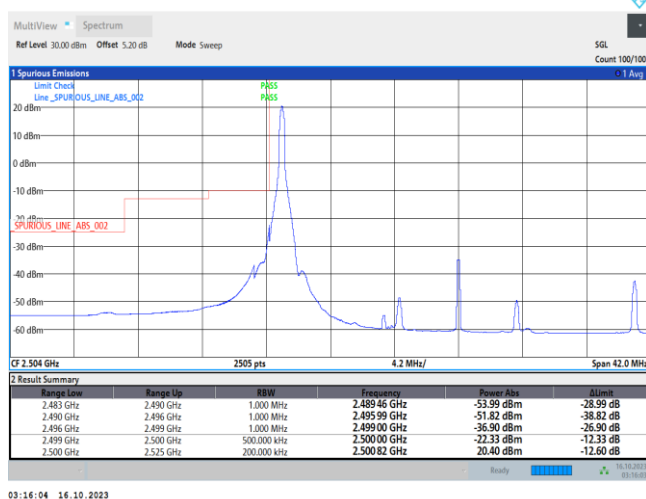
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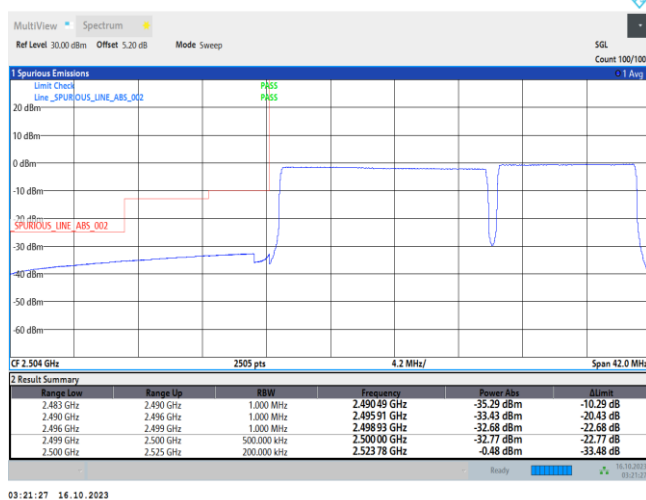
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7-7-15MHz-10MHz-QPSK-QPSK-20825-20945-1RB#0-0RB#0



03:16:04 16.10.2023

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



03:21:27 16.10.2023



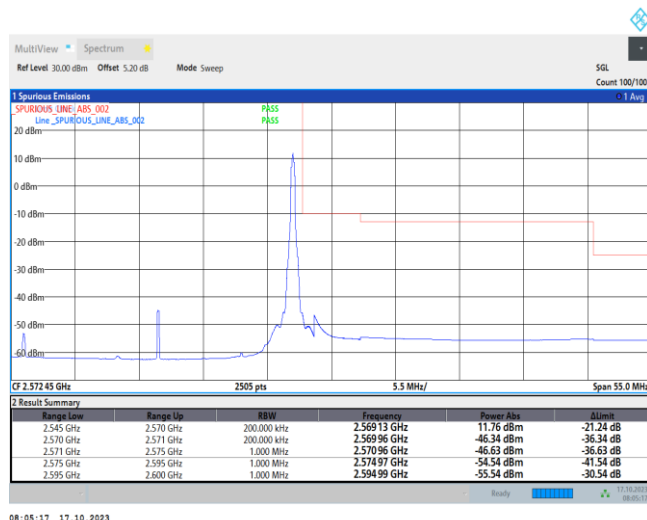
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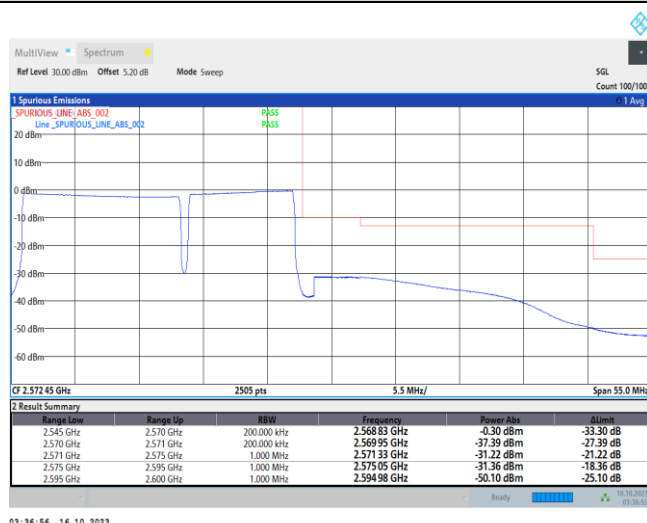
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7-7-15MHz-10MHz-QPSK-QPSK-21277-21397-0RB#0-1RB#49



08:05:17 17.10.2023

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



03:36:56 16.10.2023



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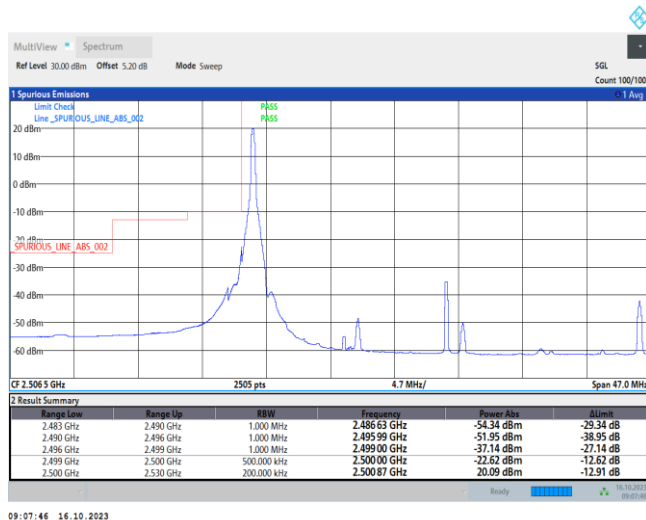
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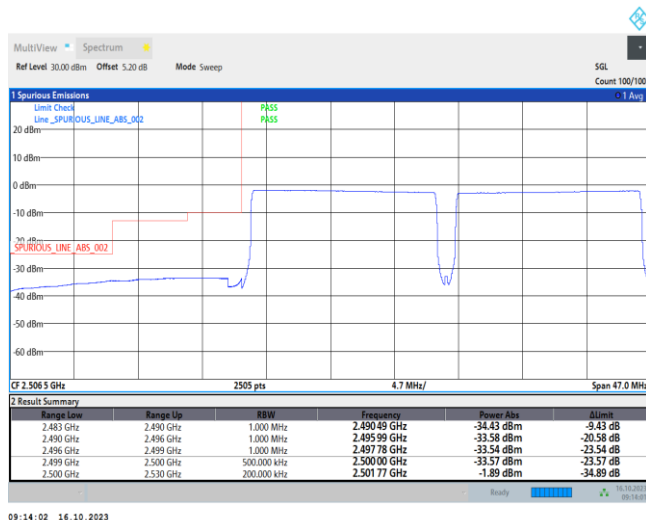
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7-7-15MHz-15MHz-QPSK-QPSK-20825-20975-1RB#0-0RB#0



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



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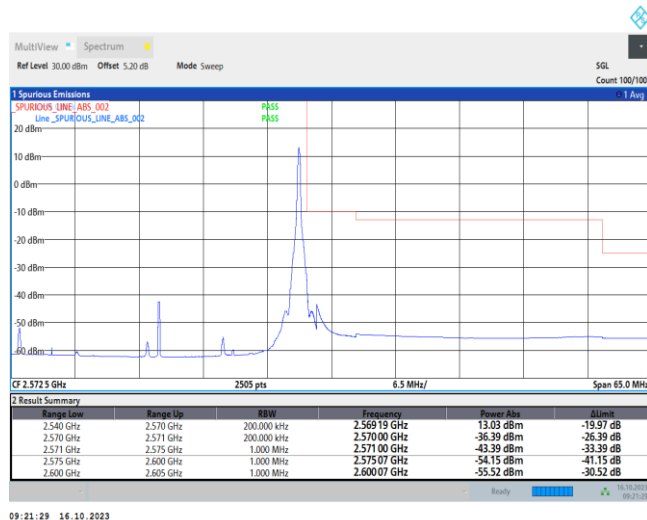
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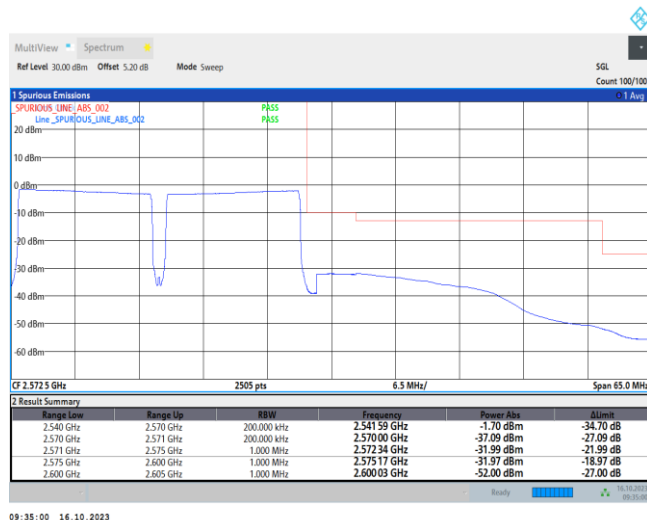
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09:21:29 16.10.2023

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09:35:00 16.10.2023



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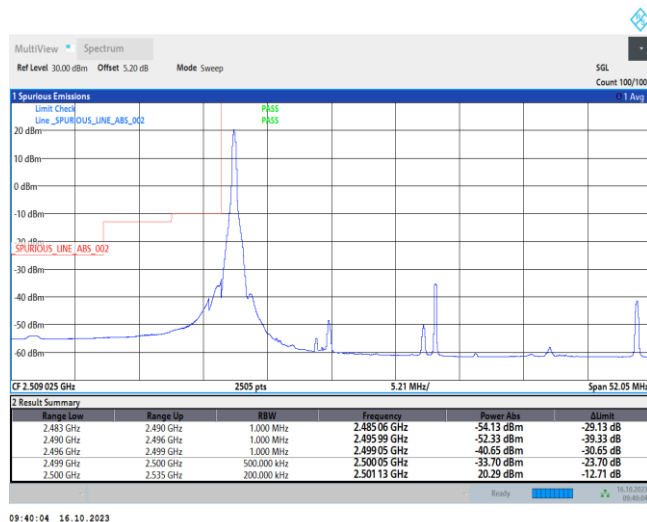
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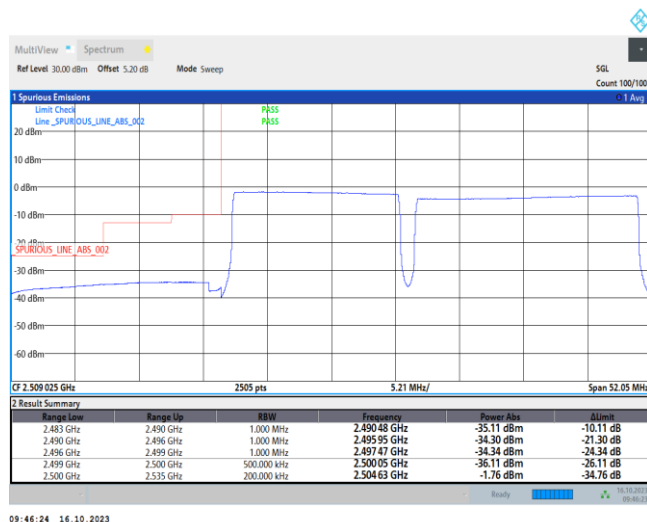
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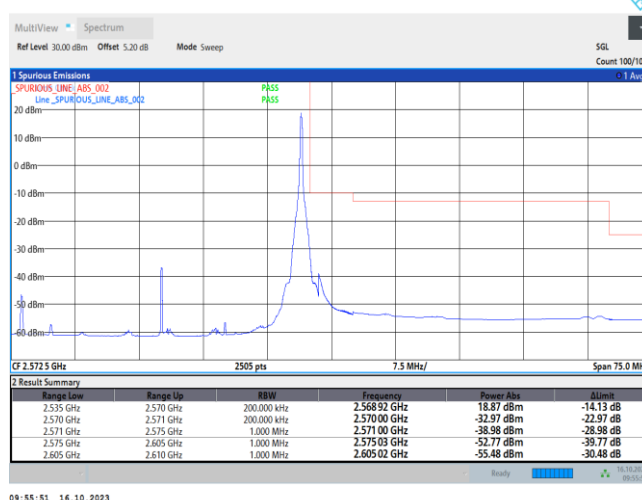
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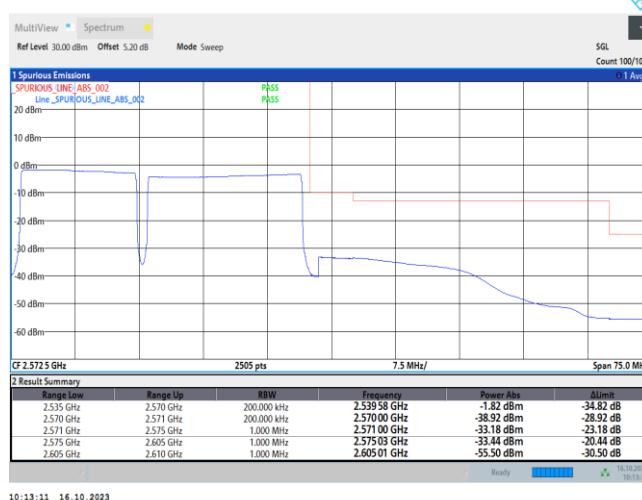
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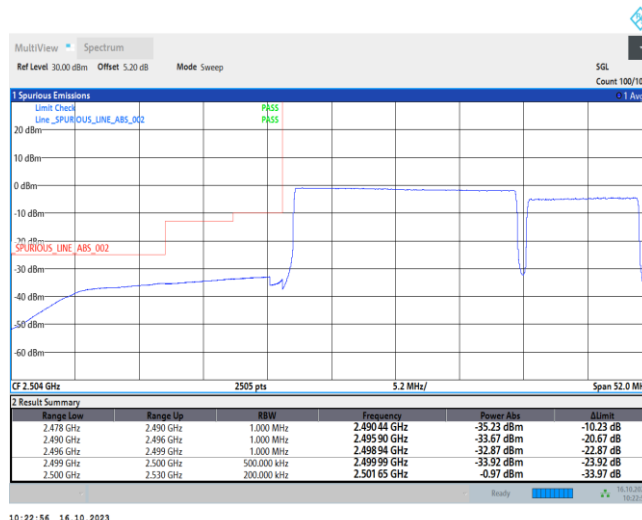
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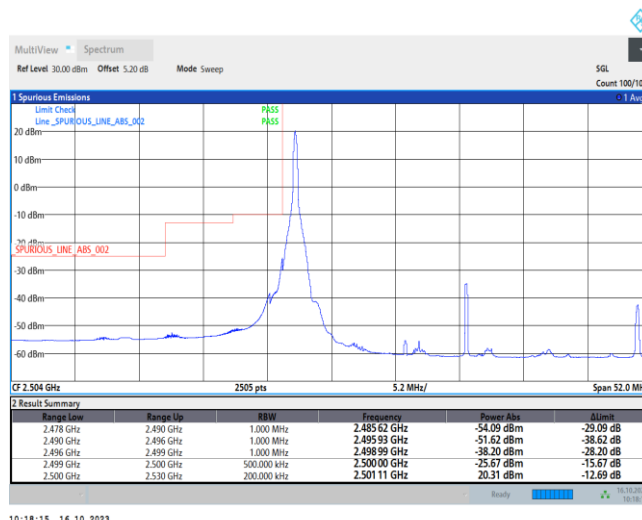
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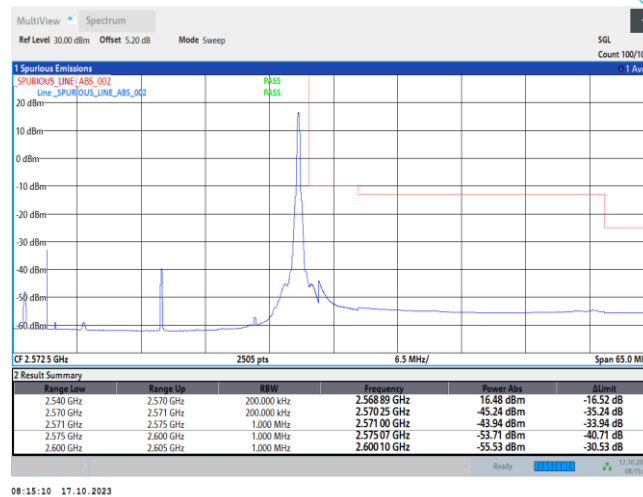
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Report No.: SEWA2310000121RG01

Rev.: 01

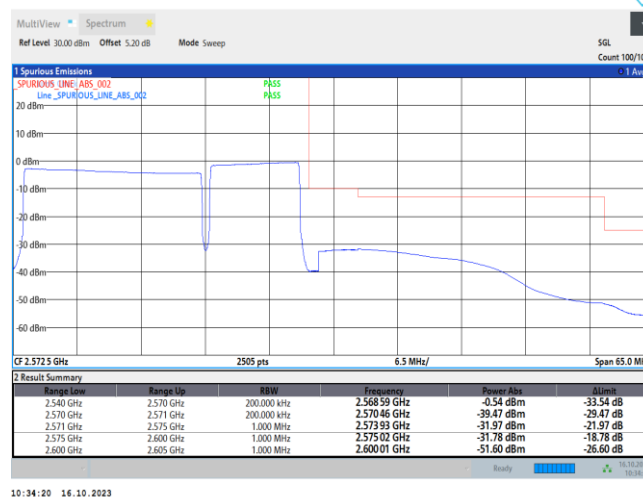
Page: 39 of 52

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



08:15:10 17.10.2023

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



10:34:20 16.10.2023



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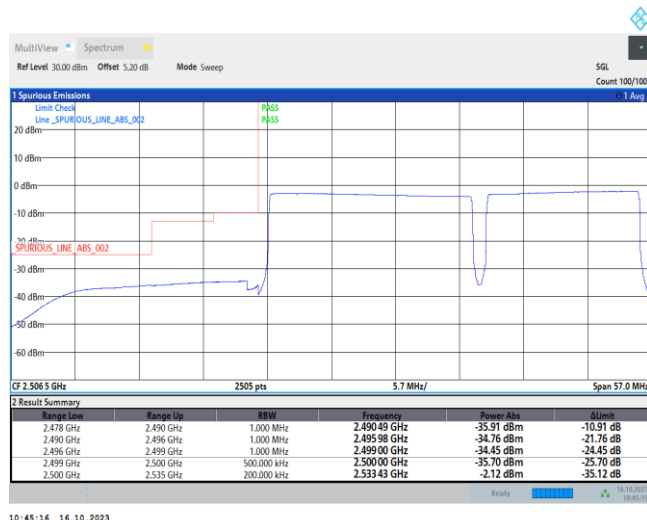
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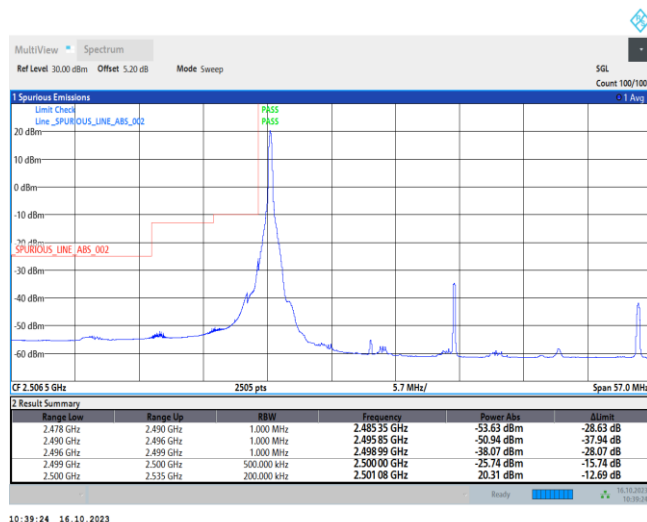
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7-7-20MHz-15MHz-QPSK-QPSK-20850-21021-100RB#0-75RB#0



10:45:16 16.10.2023

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10:39:24 16.10.2023



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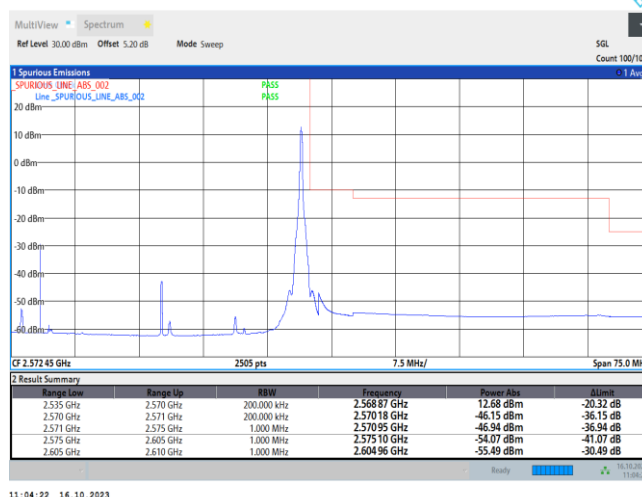
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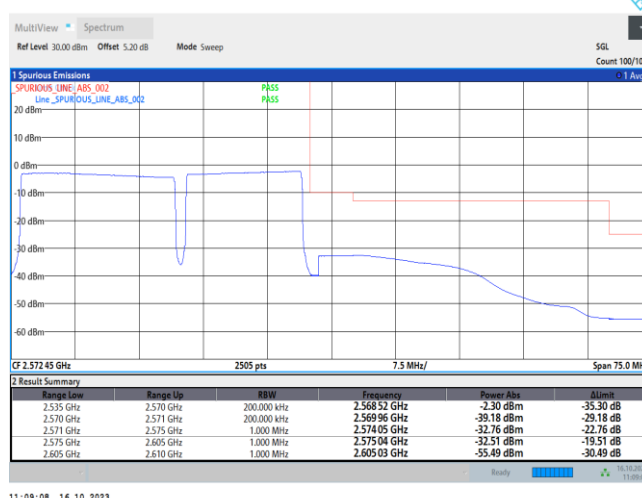
Page: 41 of 52

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



11:04:22 16.10.2023

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



11:09:08 16.10.2023



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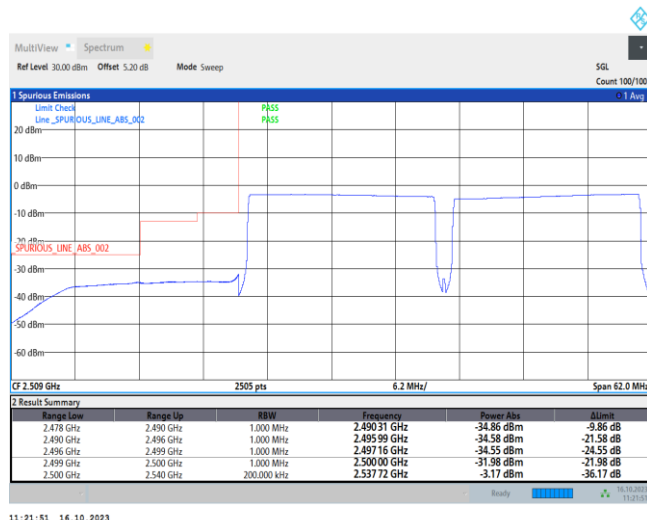
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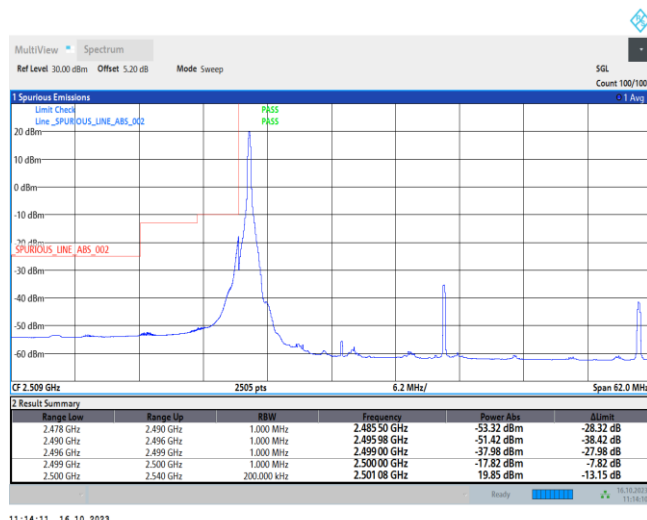
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7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-100RB#0-100RB#0



11:21:51 16.10.2023

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



11:14:11 16.10.2023



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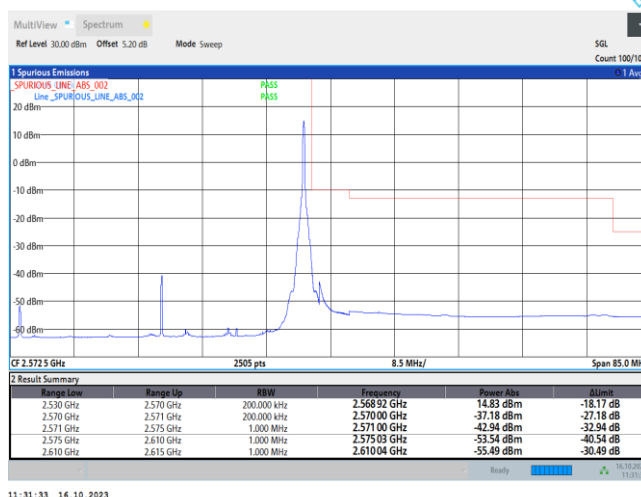
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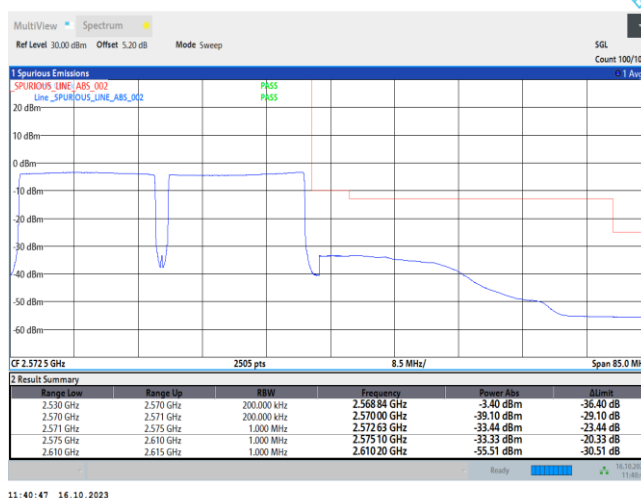
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7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-0RB#0-1RB#99



11:31:33 16.10.2023

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



11:40:47 16.10.2023



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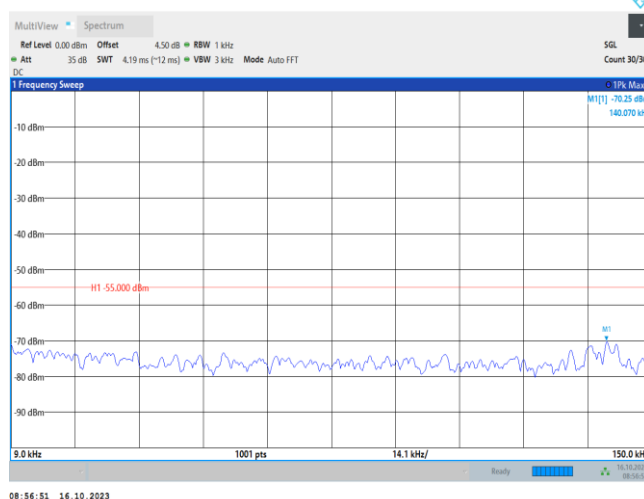
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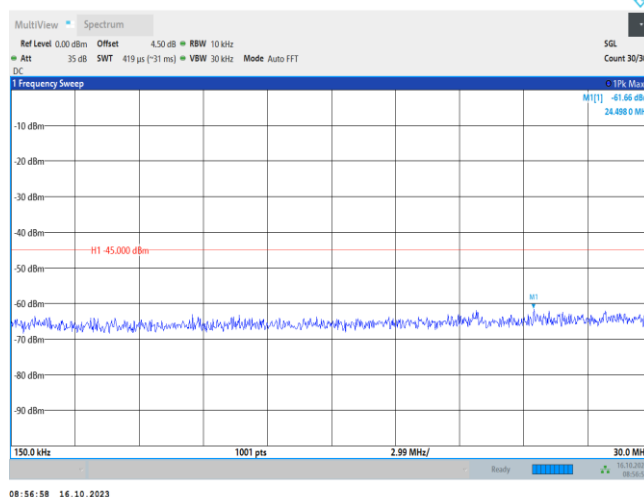
Conducted Spurious Emission

Test Graphs

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



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



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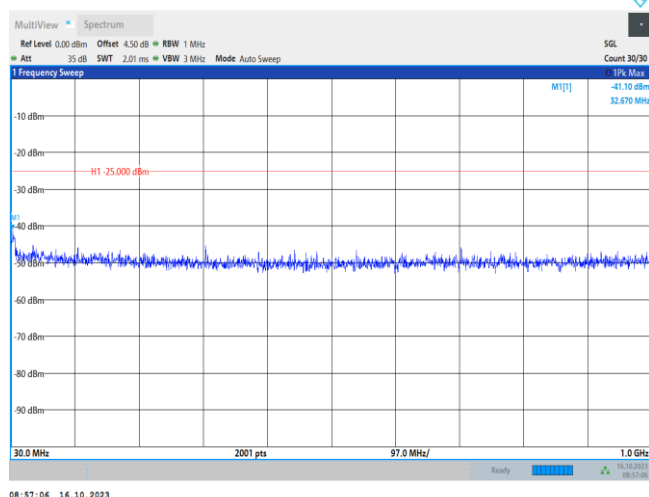
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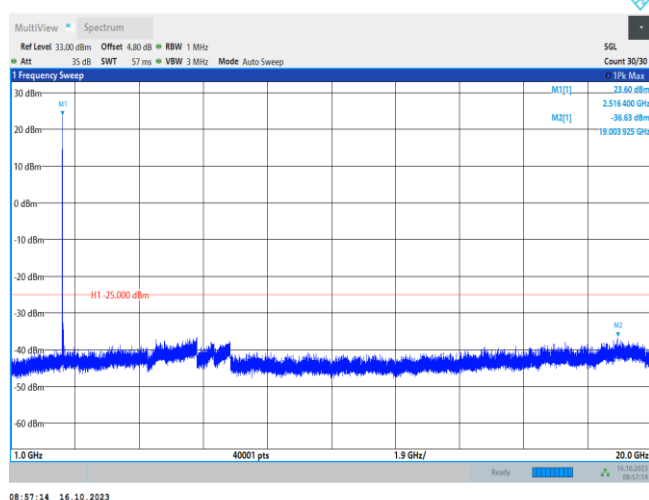
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7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-1RB#0-0RB#0-30~1000MHz



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



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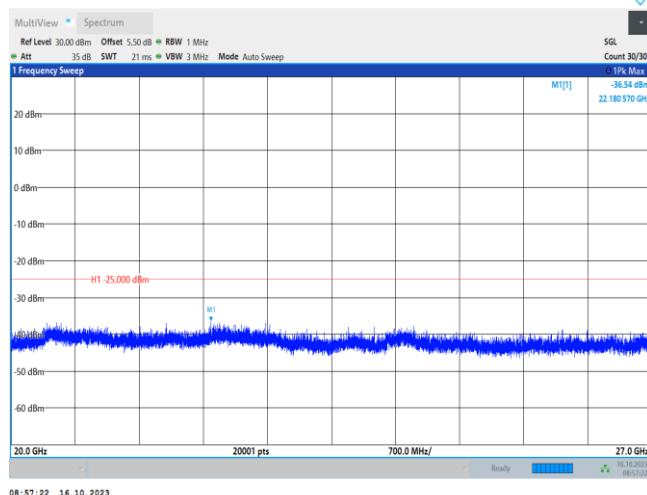
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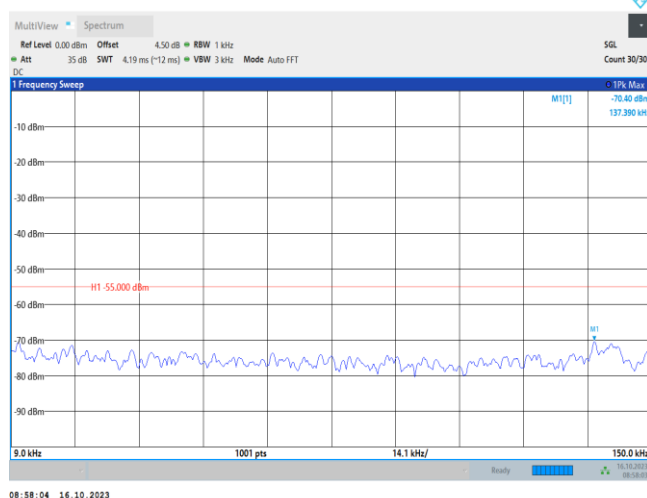
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7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-1RB#0-0RB#0-20000~27000MHz



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



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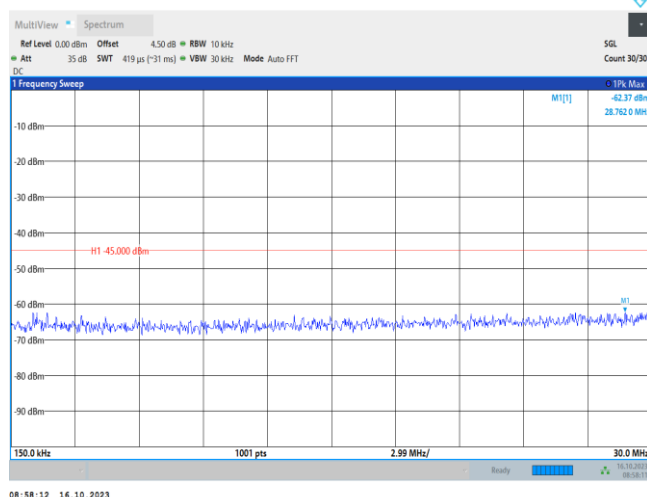
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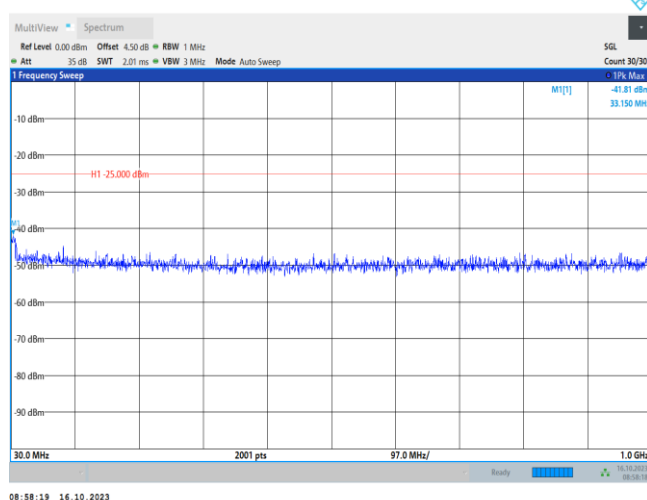
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7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-1RB#0-0RB#0-0.15~30MHz



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



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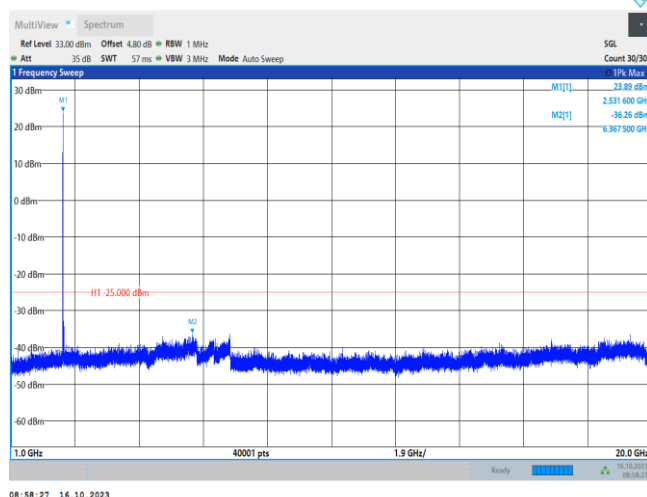
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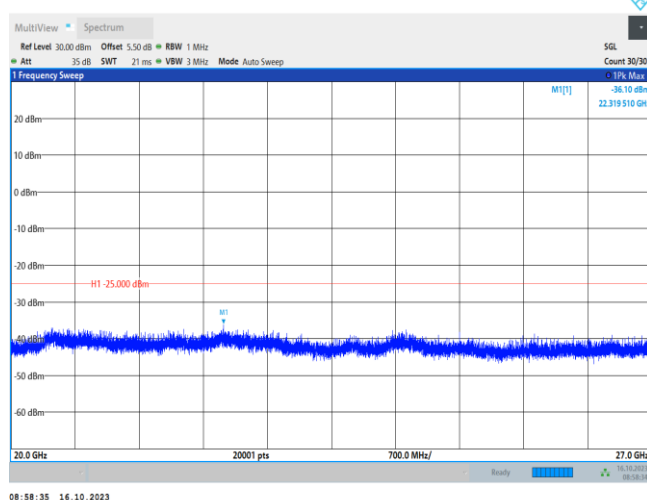
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7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-1RB#0-0RB#0-1000~20000MHz



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



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Field Strength of Spurious Radiation

Test Band = LTE Band7C_ TM1

Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4244.5	43.47	-45.67	29.69	-67.77	-25.00	42.77	Horizontal
2	5440	42.60	-45.28	32.46	-65.48	-25.00	40.48	Horizontal
3	6778.5	41.72	-44.09	34.80	-62.83	-25.00	37.83	Horizontal
4	7657	40.54	-43.04	36.66	-61.10	-25.00	36.10	Horizontal
5	9147.5	36.67	-40.30	36.58	-62.31	-25.00	37.31	Horizontal
6	11143.5	33.01	-37.72	38.71	-61.25	-25.00	36.25	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3915.5	43.79	-46.24	29.02	-68.70	-25.00	43.70	Vertical
2	5509	42.22	-45.22	32.60	-65.66	-25.00	40.66	Vertical
3	6675.5	41.81	-43.94	34.62	-62.78	-25.00	37.78	Vertical
4	7858	39.56	-42.61	36.74	-61.56	-25.00	36.56	Vertical
5	10718	32.62	-38.01	38.56	-62.09	-25.00	37.09	Vertical
6	13857.5	29.99	-35.85	40.64	-60.48	-25.00	35.48	Vertical



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Test Band = LTE Band7C_ TM1
Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4242.5	43.13	-45.67	29.68	-68.12	-25.00	43.12	Horizontal
2	5073	42.13	-45.44	31.58	-67.00	-25.00	42.00	Horizontal
3	7127	41.24	-44.00	35.56	-62.46	-25.00	37.46	Horizontal
4	8943	38.39	-41.14	36.33	-61.68	-25.00	36.68	Horizontal
5	10887	31.70	-37.91	38.64	-62.83	-25.00	37.83	Horizontal
6	12705.5	29.94	-36.69	39.01	-63.00	-25.00	38.00	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4426	43.16	-45.79	30.12	-67.77	-25.00	42.77	Vertical
2	6016	42.22	-44.77	32.75	-65.06	-25.00	40.06	Vertical
3	8061.5	38.90	-41.74	36.77	-61.33	-25.00	36.33	Vertical
4	8845	37.32	-41.25	36.38	-62.81	-25.00	37.81	Vertical
5	11454	31.93	-37.34	38.75	-61.92	-25.00	36.92	Vertical
6	12787	29.97	-36.81	39.04	-63.06	-25.00	38.06	Vertical



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Test Band = LTE Band7C_ TM1
Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4098	43.52	-45.77	29.34	-68.17	-25.00	43.17	Horizontal
2	5847.5	41.94	-44.85	32.67	-65.51	-25.00	40.51	Horizontal
3	7605	39.97	-42.94	36.64	-61.59	-25.00	36.59	Horizontal
4	9188.5	36.29	-40.26	36.66	-62.57	-25.00	37.57	Horizontal
5	11238	32.17	-37.40	38.72	-61.77	-25.00	36.77	Horizontal
6	12665	29.42	-37.01	39.00	-63.85	-25.00	38.85	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3325.5	44.25	-46.41	28.50	-68.93	-25.00	43.93	Vertical
2	4380.5	42.99	-45.77	30.01	-68.02	-25.00	43.02	Vertical
3	5528.5	42.76	-45.19	32.61	-65.09	-25.00	40.09	Vertical
4	7254	40.51	-43.60	35.91	-62.44	-25.00	37.44	Vertical
5	8938	37.88	-41.15	36.33	-62.20	-25.00	37.20	Vertical
6	10377.5	33.57	-39.03	38.39	-62.33	-25.00	37.33	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:

$$AF = \text{Antenna Factor (dB/m)}$$

$$\text{Factor} = \text{Cable Factor (dB)} - \text{Preamplifier (dB)}$$

$$\text{Level} = \text{Reading Level} + AF + \text{Factor} - 95.26$$

$$\text{Margin} = \text{Limit} - \text{Level}$$


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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	15.20	0.006020	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	VL	NT	14.70	0.005822	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	VN	NT	15.80	0.006257	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	19.20	0.007604	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	-20	18.90	0.007485	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	-10	16.20	0.006416	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	0	18.50	0.007326	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	10	17.00	0.006732	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	20	17.20	0.006812	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	30	17.20	0.006812	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	40	14.30	0.005663	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	50	12.10	0.002537	PASS

---End of Attachment---



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