

RF Test Data for LTE (Conducted Measurement)

Product Name: OMI public network intercom
Trade Mark: OMI
Test Model: OMI-M9
FCC ID: 2BK53-OMIM9

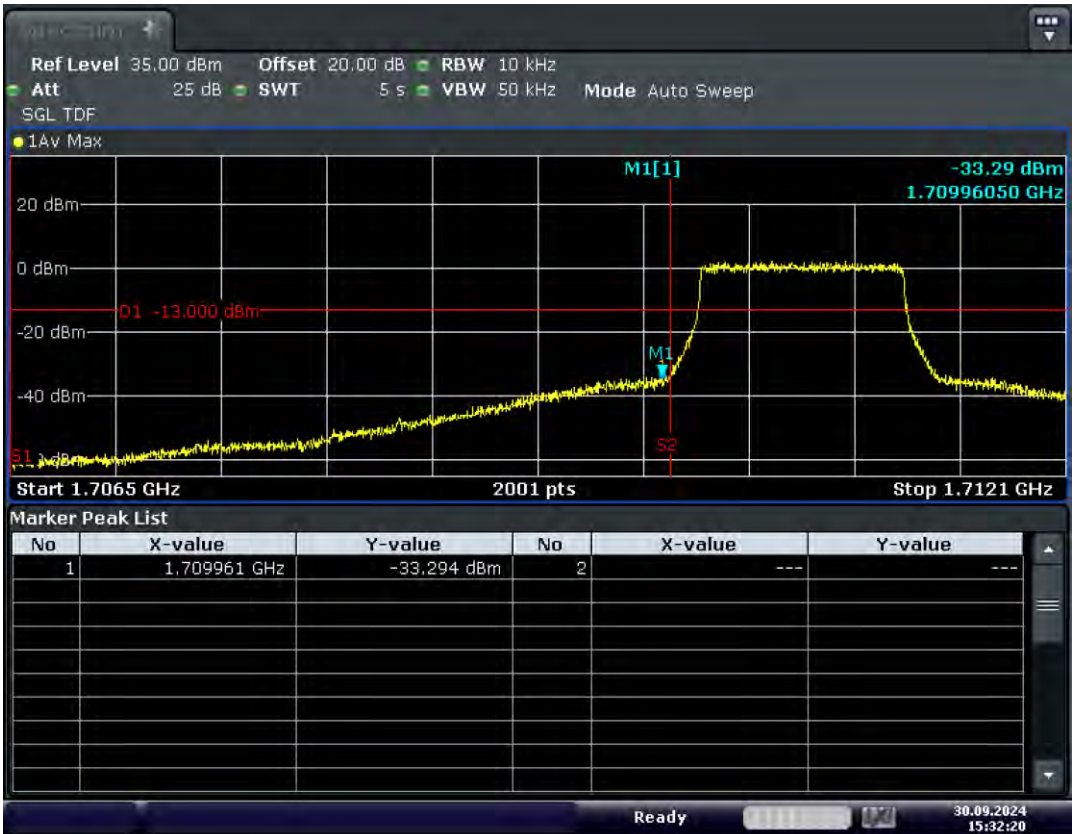
Environmental Conditions

Temperature:	23.8℃
Relative Humidity:	56%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
Remark:	For LTE Band4

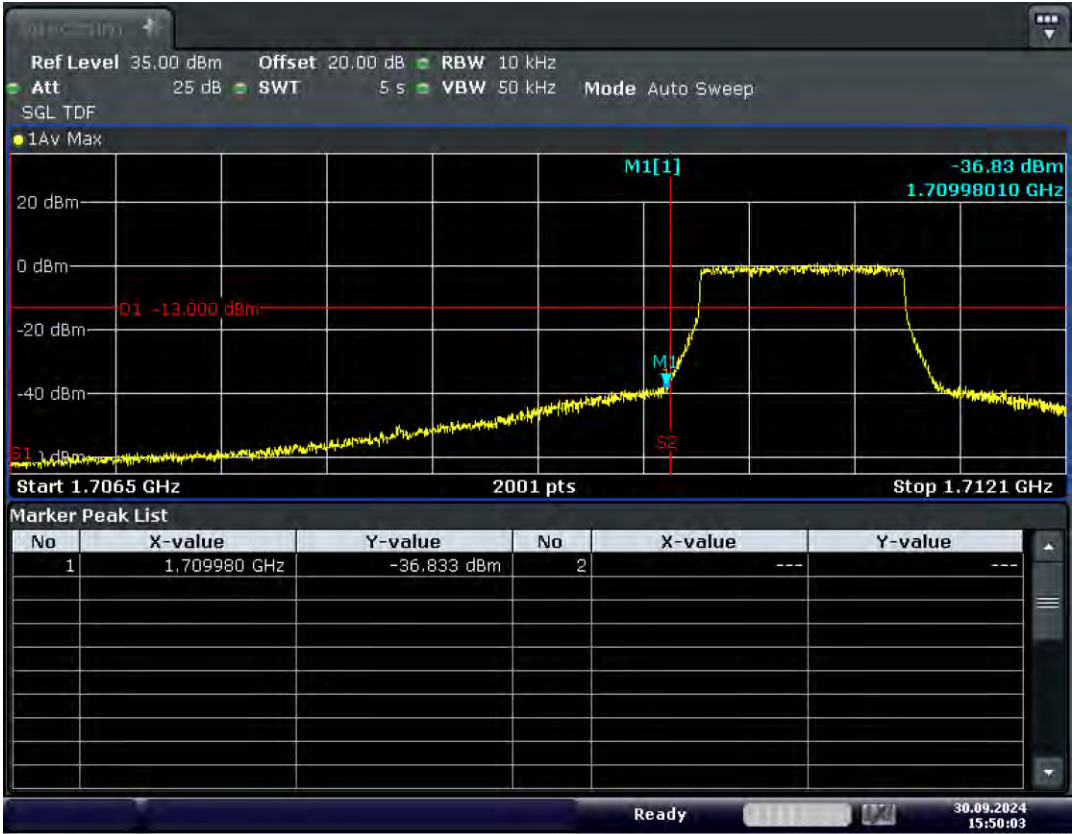
Band Edge and Emission Mask

Band	Bandwidth(MHz)	UL Frequency(MHz)	Modulation	RB Size	RB Offset	Conclusion
Band4	1.4	1710.7	QPSK	6	LOW	Pass
Band4	1.4	1710.7	16QAM	6	LOW	Pass
Band4	1.4	1754.3	QPSK	6	LOW	Pass
Band4	1.4	1754.3	16QAM	6	LOW	Pass
Band4	3	1711.5	QPSK	15	LOW	Pass
Band4	3	1711.5	16QAM	15	LOW	Pass
Band4	3	1753.5	QPSK	15	LOW	Pass
Band4	3	1753.5	16QAM	15	LOW	Pass
Band4	5	1712.5	QPSK	25	LOW	Pass
Band4	5	1712.5	16QAM	25	LOW	Pass
Band4	5	1752.5	QPSK	25	LOW	Pass
Band4	5	1752.5	16QAM	25	LOW	Pass
Band4	10	1715	QPSK	50	LOW	Pass
Band4	10	1715	16QAM	27	LOW	Pass
Band4	10	1750	QPSK	50	LOW	Pass
Band4	10	1750	16QAM	27	HIGH	Pass
Band4	15	1717.5	QPSK	75	LOW	Pass
Band4	15	1717.5	16QAM	27	LOW	Pass
Band4	15	1747.5	QPSK	75	LOW	Pass
Band4	15	1747.5	16QAM	27	HIGH	Pass
Band4	20	1720	QPSK	100	LOW	Pass
Band4	20	1720	16QAM	27	LOW	Pass

Band4-1.4-1710.7-QPSK-6#LOW@Pass



Band4-1.4-1710.7-16QAM-6#LOW@Pass

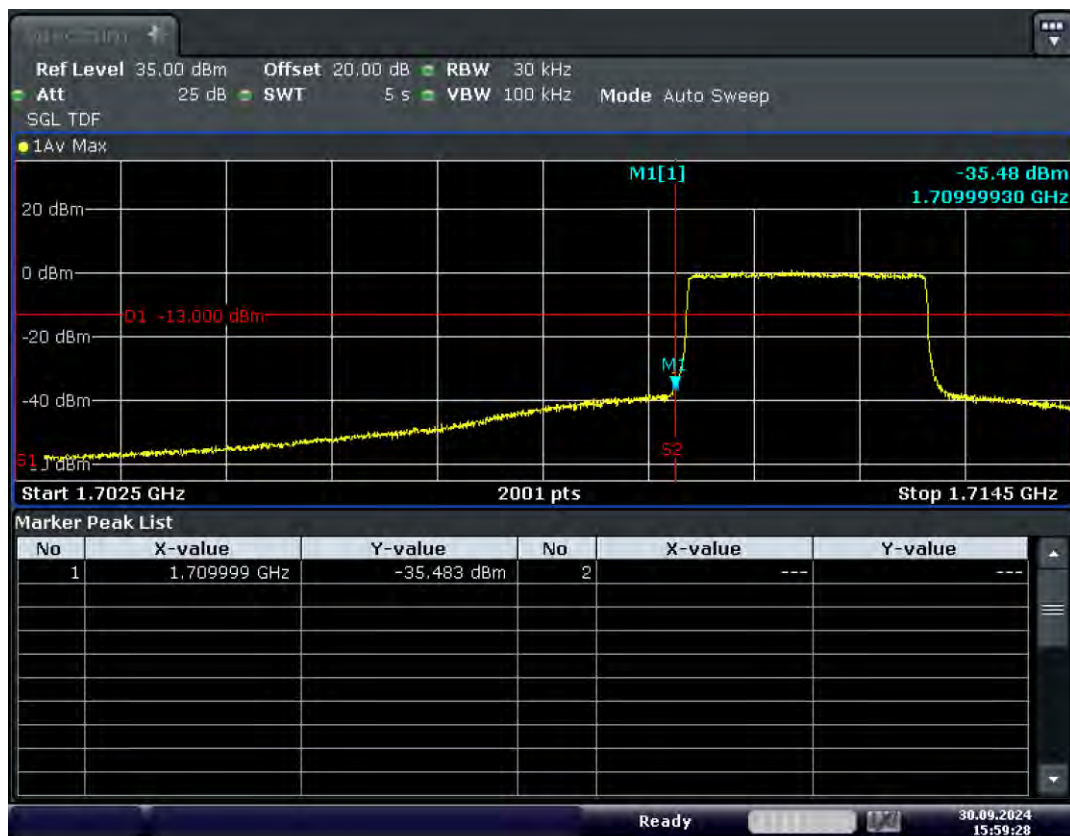


Band4-1.4-1754.3-QPSK-6#LOW@Pass



Band4-1.4-1754.3-16QAM-6#LOW@Pass







Band4-5-1712.5-QPSK-25#LOW@Pass



Band4-5-1712.5-16QAM-25#LOW@Pass





The screenshot shows a Spectrum Analyzer interface with the following settings and data:

- Ref Level:** 35.00 dBm
- Offset:** 20.00 dB
- RBW:** 100 kHz
- Att:** 25 dB
- SWT:** 5 s
- VBW:** 300 kHz
- Mode:** Auto Sweep
- SQL TDF:** 1Av Max

The main display shows a signal trace (yellow) with a peak at 1.7099980 GHz, labeled **M1[1]**, with a power level of **-34.22 dBm**. A red horizontal line indicates a reference level at **-13.000 dBm**, labeled **D1**. The signal trace shows a sharp peak at the specified frequency, with a power level of approximately -34.22 dBm. The x-axis represents frequency from 1.685 GHz to 1.725 GHz, and the y-axis represents power in dBm from -50 dBm to 30 dBm.

Ref Level 35.00 dBm Offset 20.00 dB RBW 100 kHz
 Att 25 dB SWT 5 s VBW 300 kHz Mode Auto Sweep
 SGL TDF
 1Av Max

M1[1] -36.77 dBm
 1.755022 GHz

O1 -13.000 dBm

M1

S1

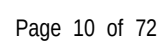
S2

Start 1.74 GHz 2001 pts Stop 1.78 GHz

No	X-value	Y-value	No	X-value	Y-value
1	1.755022 GHz	-36.770 dBm	2	---	---

Ready 30.09.2024 17:54:34

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[illegible][illegible]

Band4-15-1747.5-QPSK-75#LOW@Pass



Band4-15-1747.5-16QAM-27#HIGH@Pass



Band4-20-1720-QPSK-100#LOW@Pass



Band4-20-1720-16QAM-27#LOW@Pass

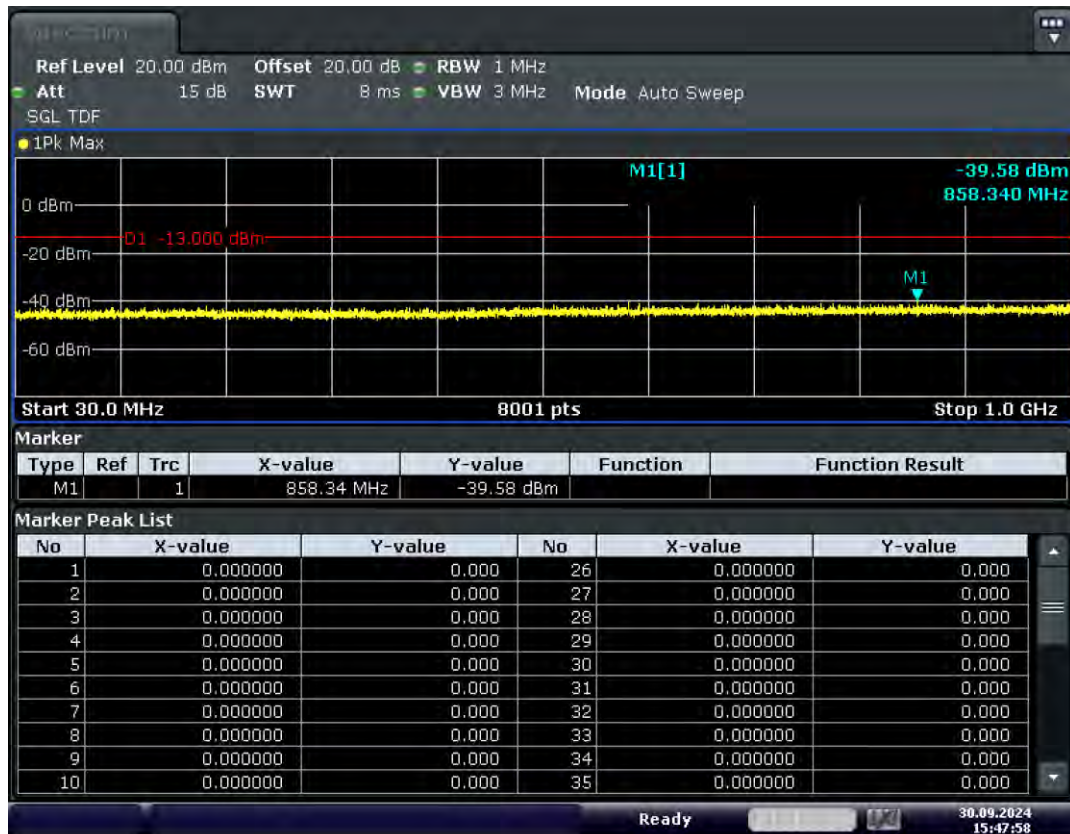


Conducted Spurious Emission

Band	Bandwidth(MHz)	UL Frequency(MHz)	Modulation	RB Size	RB Offset	Test Condition	Transmitter Spurious Emission(Pass/Fail)
OB4	1.4	1710.7	QPSK	6	LOW	30mHz-1GHz	Pass
OB4	1.4	1710.7	QPSK	6	LOW	1GHz-7GHz	Pass
OB4	1.4	1710.7	QPSK	6	LOW	7GHz-13.6GHz	Pass
OB4	1.4	1710.7	QPSK	6	LOW	13.6GHz-20GHz	Pass
OB4	1.4	1732.5	QPSK	6	LOW	30mHz-1GHz	Pass
OB4	1.4	1732.5	QPSK	6	LOW	1GHz-7GHz	Pass
OB4	1.4	1732.5	QPSK	6	LOW	7GHz-13.6GHz	Pass
OB4	1.4	1732.5	QPSK	6	LOW	13.6GHz-20GHz	Pass
OB4	1.4	1754.3	QPSK	6	LOW	30mHz-1GHz	Pass
OB4	1.4	1754.3	QPSK	6	LOW	1GHz-7GHz	Pass
OB4	1.4	1754.3	QPSK	6	LOW	7GHz-13.6GHz	Pass
OB4	1.4	1754.3	QPSK	6	LOW	13.6GHz-20GHz	Pass
OB4	3	1711.5	QPSK	15	LOW	30mHz-1GHz	Pass
OB4	3	1711.5	QPSK	15	LOW	1GHz-7GHz	Pass
OB4	3	1711.5	QPSK	15	LOW	7GHz-13.6GHz	Pass
OB4	3	1711.5	QPSK	15	LOW	13.6GHz-20GHz	Pass
OB4	3	1732.5	QPSK	15	LOW	30mHz-1GHz	Pass
OB4	3	1732.5	QPSK	15	LOW	1GHz-7GHz	Pass
OB4	3	1732.5	QPSK	15	LOW	7GHz-13.6GHz	Pass
OB4	3	1732.5	QPSK	15	LOW	13.6GHz-20GHz	Pass
OB4	3	1753.5	QPSK	15	LOW	30mHz-1GHz	Pass
OB4	3	1753.5	QPSK	15	LOW	1GHz-7GHz	Pass
OB4	3	1753.5	QPSK	15	LOW	7GHz-13.6GHz	Pass
OB4	3	1753.5	QPSK	15	LOW	13.6GHz-20GHz	Pass
OB4	5	1712.5	QPSK	25	LOW	30mHz-1GHz	Pass
OB4	5	1712.5	QPSK	25	LOW	1GHz-7GHz	Pass
OB4	5	1712.5	QPSK	25	LOW	7GHz-13.6GHz	Pass
OB4	5	1712.5	QPSK	25	LOW	13.6GHz-20GHz	Pass
OB4	5	1732.5	QPSK	25	LOW	30mHz-1GHz	Pass
OB4	5	1732.5	QPSK	25	LOW	1GHz-7GHz	Pass
OB4	5	1732.5	QPSK	25	LOW	7GHz-13.6GHz	Pass
OB4	5	1732.5	QPSK	25	LOW	13.6GHz-20GHz	Pass
OB4	5	1752.5	QPSK	25	LOW	30mHz-1GHz	Pass
OB4	5	1752.5	QPSK	25	LOW	1GHz-7GHz	Pass
OB4	5	1752.5	QPSK	25	LOW	7GHz-13.6GHz	Pass
OB4	5	1752.5	QPSK	25	LOW	13.6GHz-20GHz	Pass
OB4	10	1715	QPSK	50	LOW	30mHz-1GHz	Pass
OB4	10	1715	QPSK	50	LOW	1GHz-7GHz	Pass
OB4	10	1715	QPSK	50	LOW	7GHz-13.6GHz	Pass
OB4	10	1715	QPSK	50	LOW	13.6GHz-20GHz	Pass

OB4	10	1732.5	QPSK	50	LOW	30mHz-1GHz	Pass
OB4	10	1732.5	QPSK	50	LOW	1GHz-7GHz	Pass
OB4	10	1732.5	QPSK	50	LOW	7GHz-13.6GHz	Pass
OB4	10	1732.5	QPSK	50	LOW	13.6GHz-20GHz	Pass
OB4	10	1750	QPSK	50	LOW	30mHz-1GHz	Pass
OB4	10	1750	QPSK	50	LOW	1GHz-7GHz	Pass
OB4	10	1750	QPSK	50	LOW	7GHz-13.6GHz	Pass
OB4	10	1750	QPSK	50	LOW	13.6GHz-20GHz	Pass
OB4	15	1717.5	QPSK	75	LOW	30mHz-1GHz	Pass
OB4	15	1717.5	QPSK	75	LOW	1GHz-7GHz	Pass
OB4	15	1717.5	QPSK	75	LOW	7GHz-13.6GHz	Pass
OB4	15	1717.5	QPSK	75	LOW	13.6GHz-20GHz	Pass
OB4	15	1732.5	QPSK	75	LOW	30mHz-1GHz	Pass
OB4	15	1732.5	QPSK	75	LOW	1GHz-7GHz	Pass
OB4	15	1732.5	QPSK	75	LOW	7GHz-13.6GHz	Pass
OB4	15	1732.5	QPSK	75	LOW	13.6GHz-20GHz	Pass
OB4	15	1747.5	QPSK	75	LOW	30mHz-1GHz	Pass
OB4	15	1747.5	QPSK	75	LOW	1GHz-7GHz	Pass
OB4	15	1747.5	QPSK	75	LOW	7GHz-13.6GHz	Pass
OB4	15	1747.5	QPSK	75	LOW	13.6GHz-20GHz	Pass
OB4	20	1720	QPSK	100	LOW	30mHz-1GHz	Pass
OB4	20	1720	QPSK	100	LOW	1GHz-7GHz	Pass
OB4	20	1720	QPSK	100	LOW	7GHz-13.6GHz	Pass
OB4	20	1720	QPSK	100	LOW	13.6GHz-20GHz	Pass

OB4-1.4-1710.7-QPSK-6#LOW@30mHz-1GHz@Pass



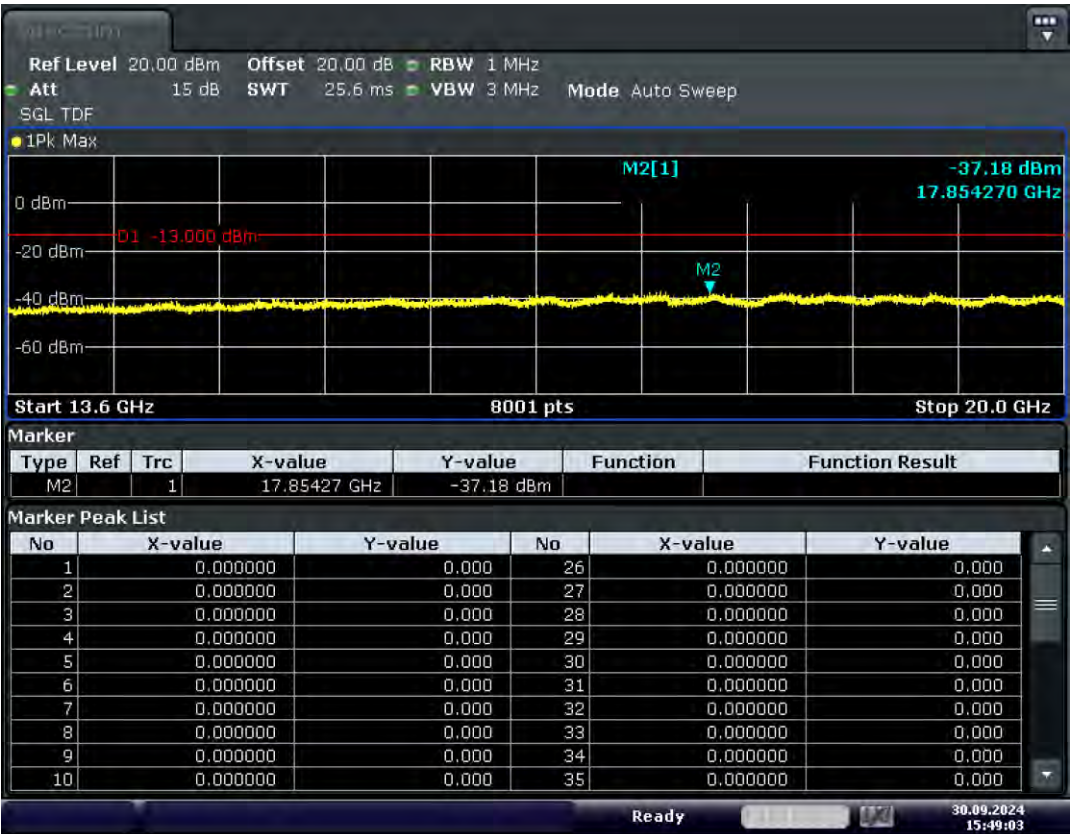
OB4-1.4-1710.7-QPSK-6#LOW@1GHz-7GHz@Pass



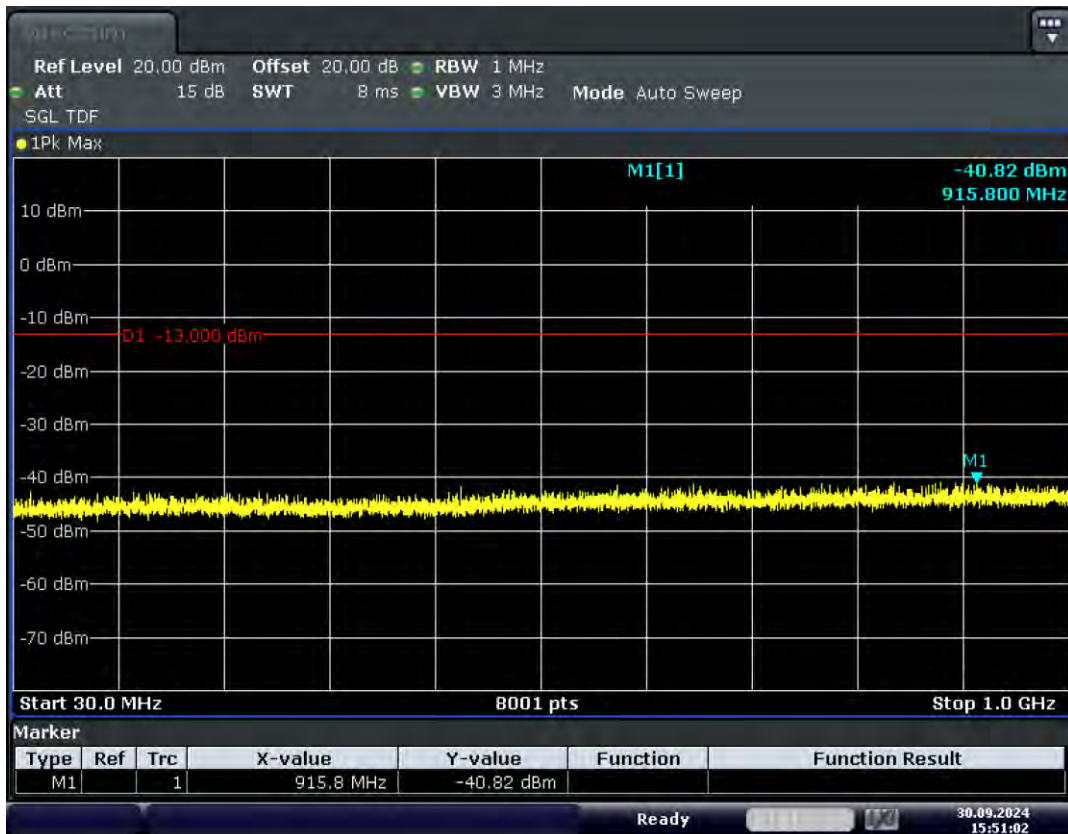
OB4-1.4-1710.7-QPSK-6#LOW@7GHz-13.6GHz@Pass



OB4-1.4-1710.7-QPSK-6#LOW@13.6GHz-20GHz@Pass



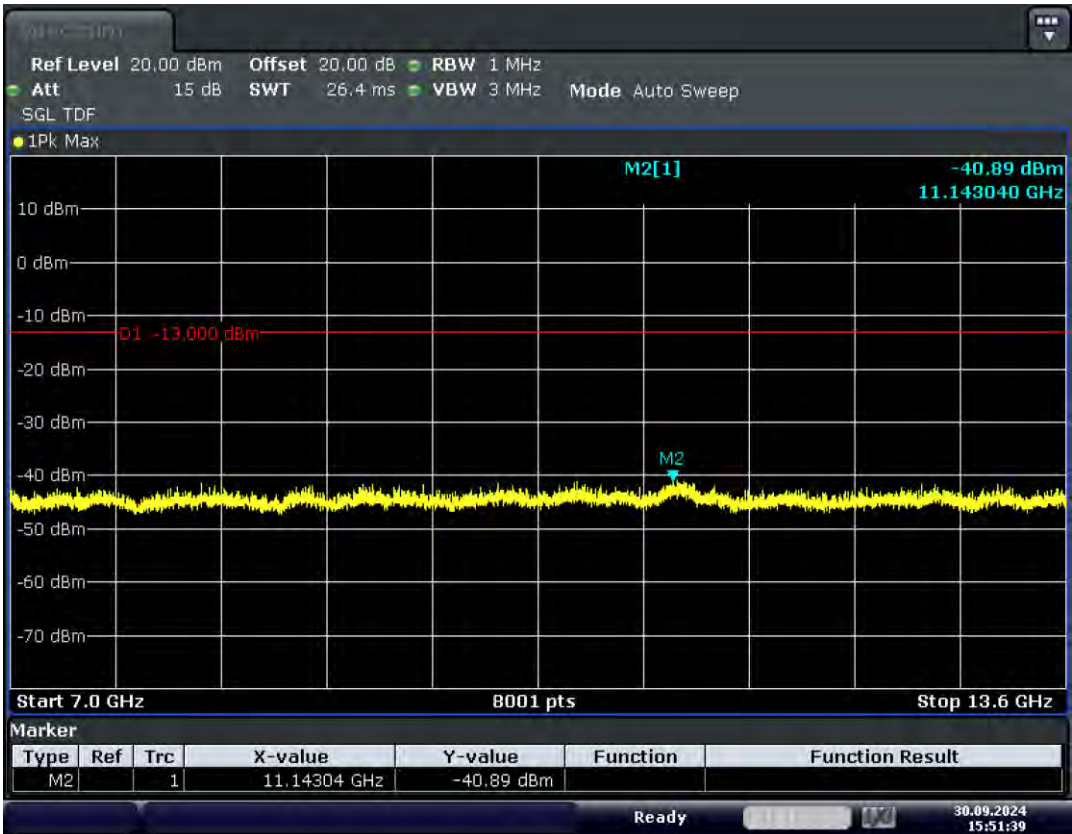
OB4-1.4-1732.5-QPSK-6#LOW@30mHz-1GHz@Pass



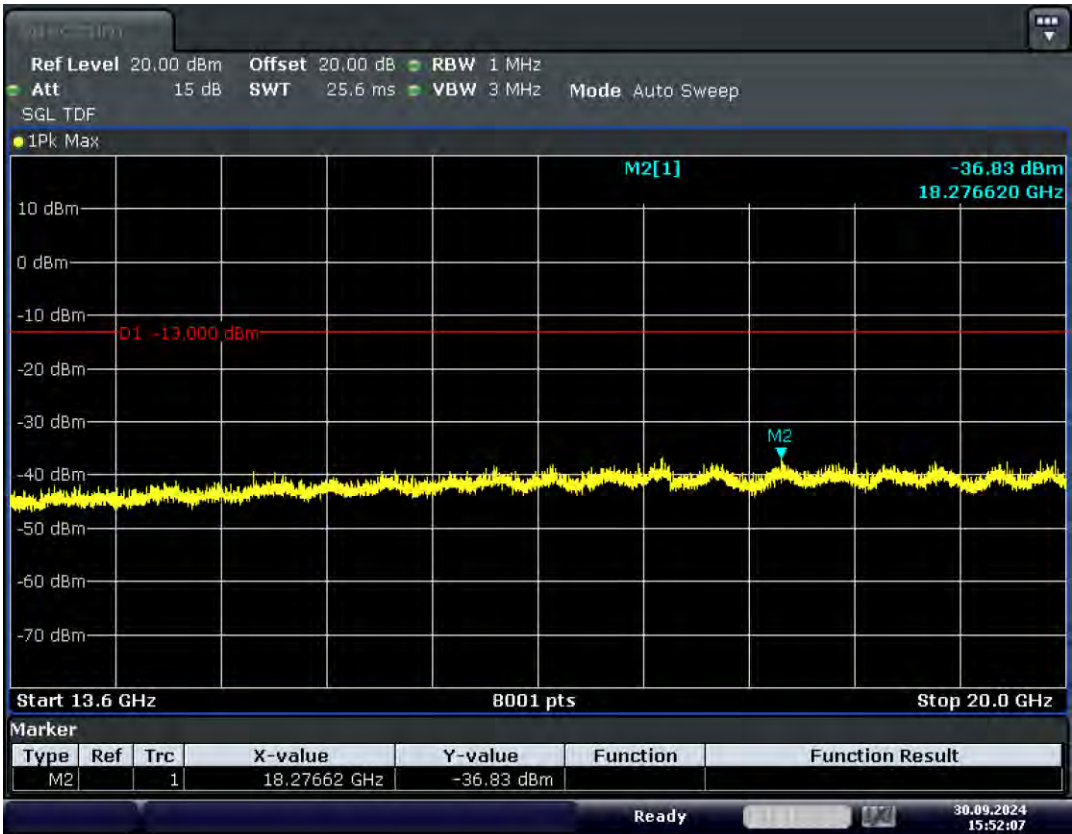
OB4-1.4-1732.5-QPSK-6#LOW@1GHz-7GHz@Pass



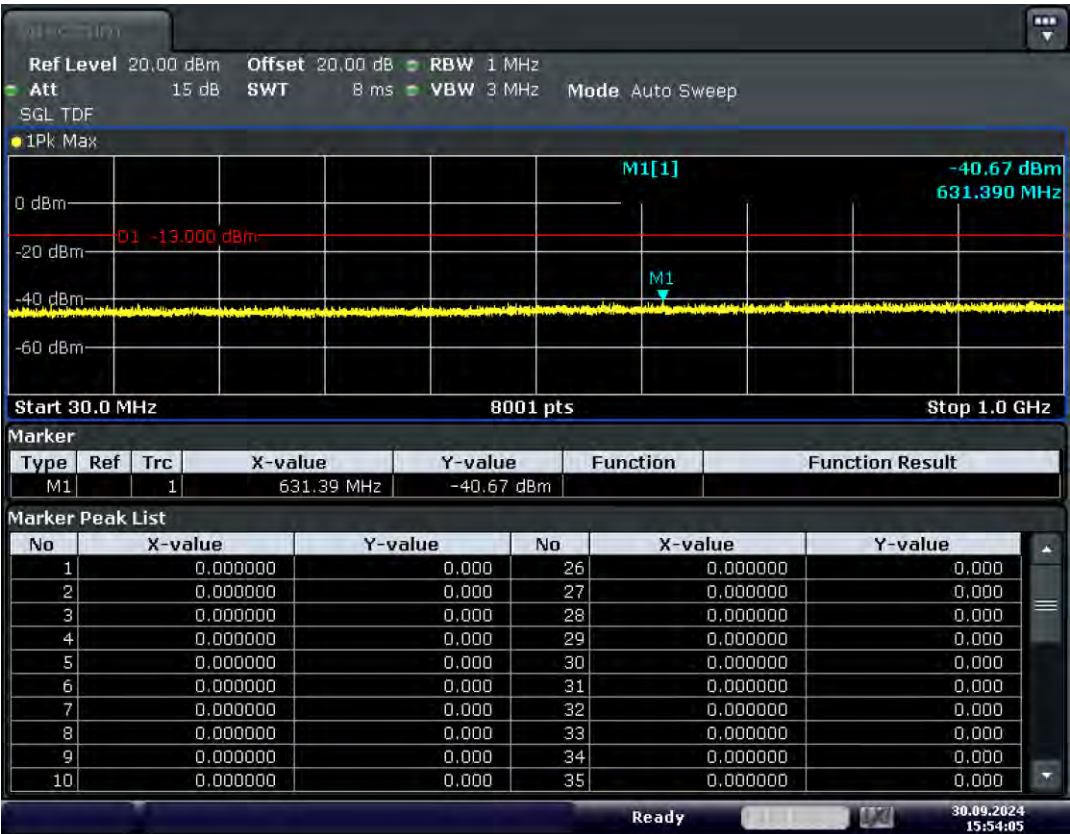
OB4-1.4-1732.5-QPSK-6#LOW@7GHz-13.6GHz@Pass



OB4-1.4-1732.5-QPSK-6#LOW@13.6GHz-20GHz@Pass



OB4-1.4-1754.3-QPSK-6#LOW@30mHz-1GHz@Pass



OB4-1.4-1754.3-QPSK-6#LOW@1GHz-7GHz@Pass



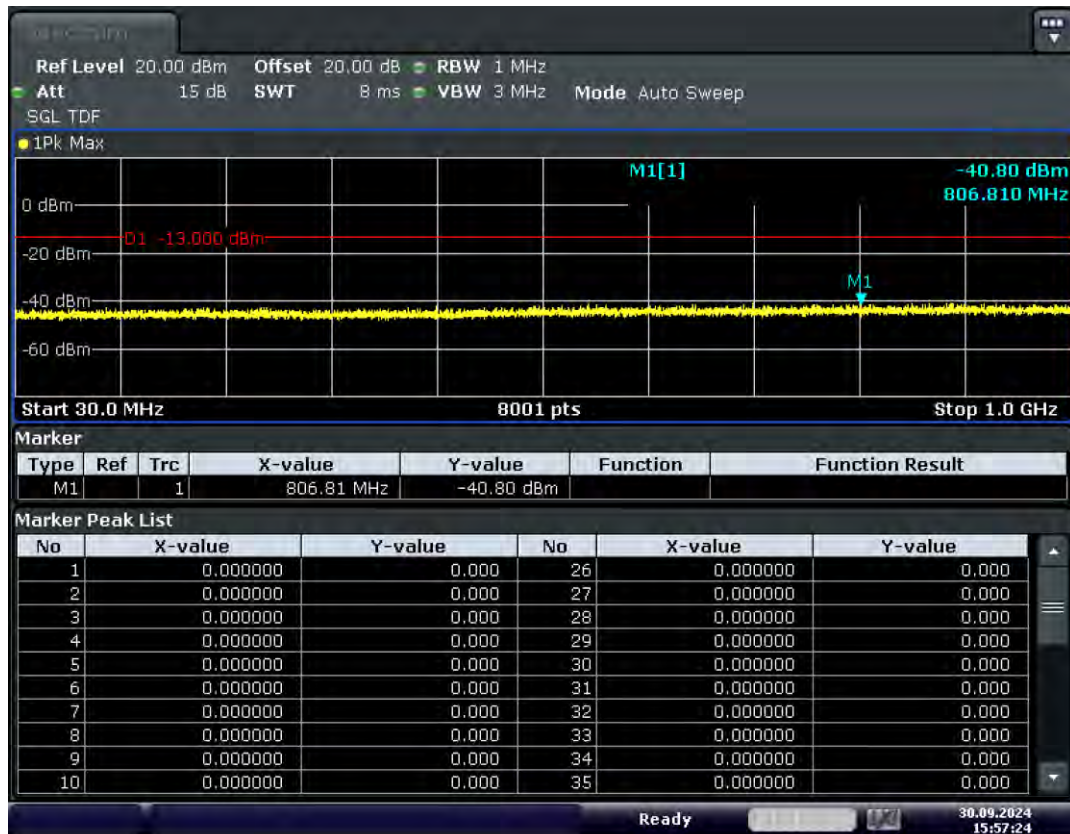
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OB4-1.4-1754.3-QPSK-6#LOW@13.6GHz-20GHz@Pass



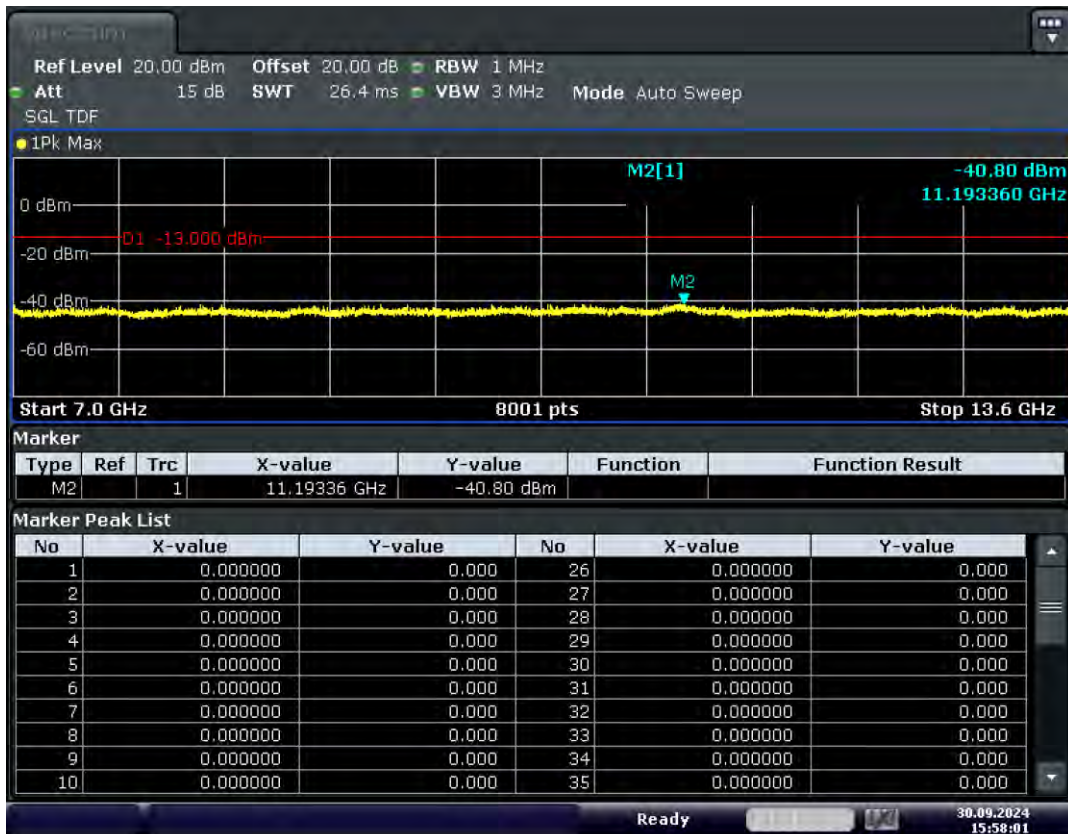
OB4-3-1711.5-QPSK-15#LOW@30mHz-1GHz@Pass



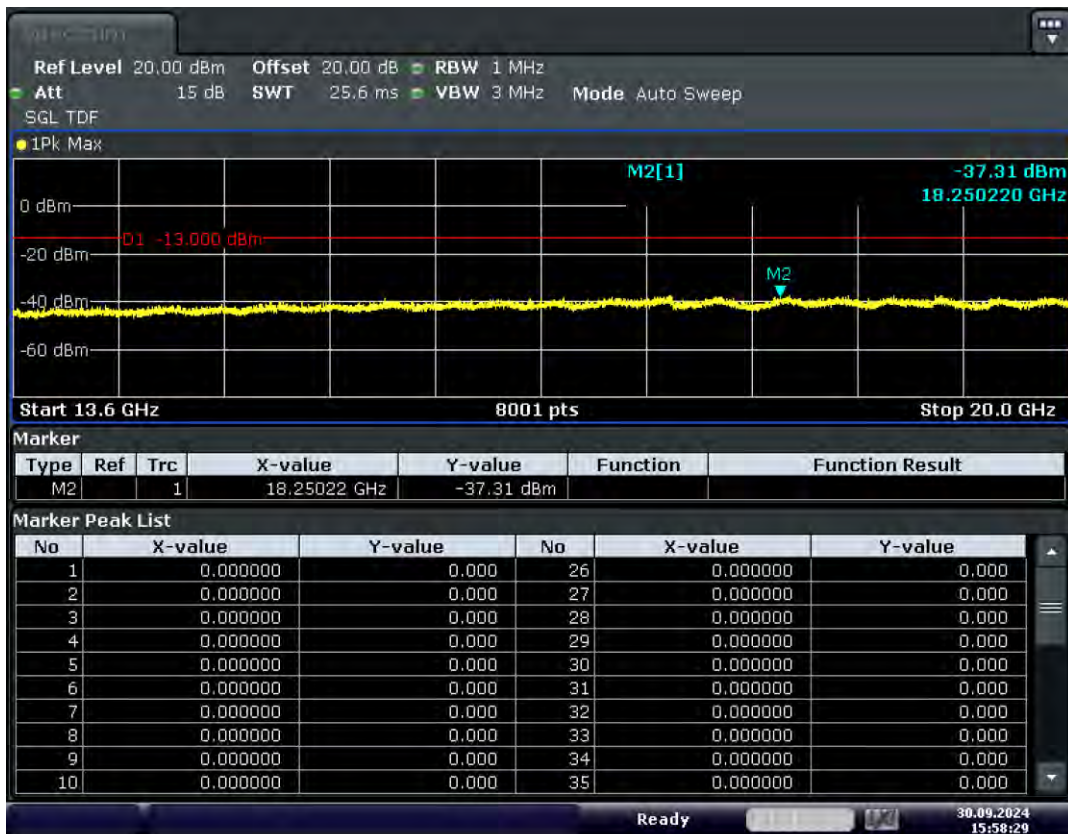
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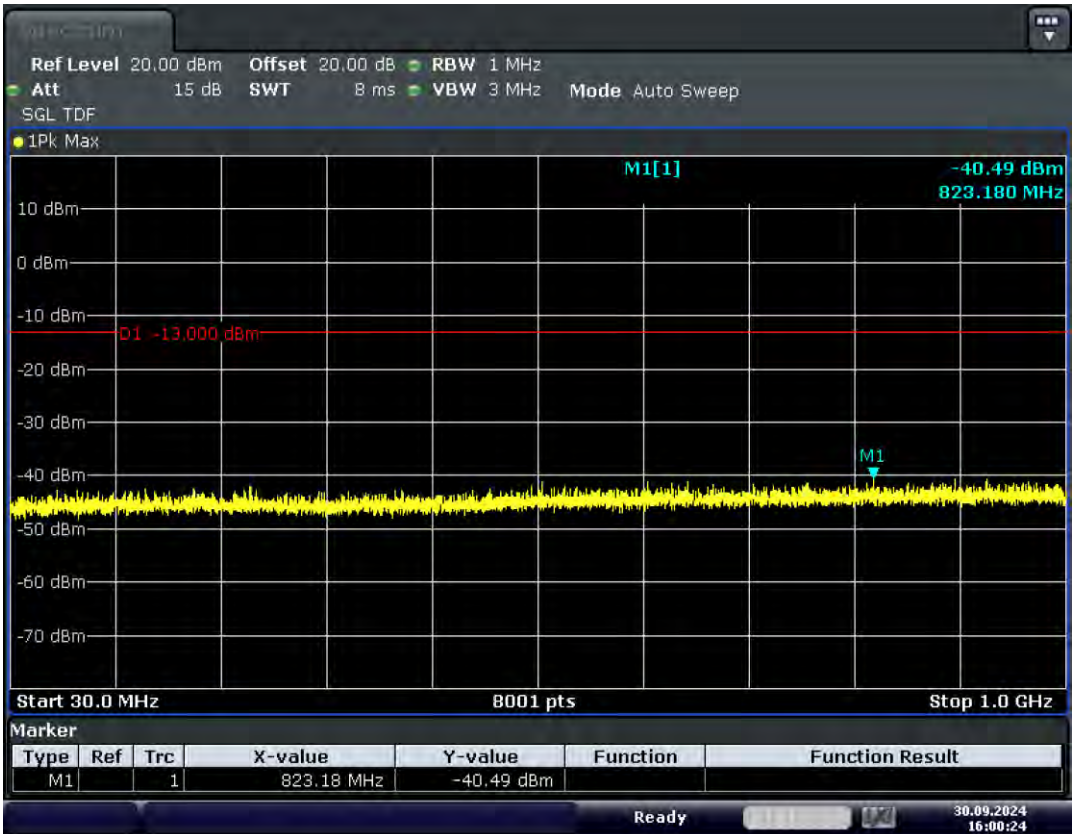
OB4-3-1711.5-QPSK-15#LOW@7GHz-13.6GHz@Pass



OB4-3-1711.5-QPSK-15#LOW@13.6GHz-20GHz@Pass



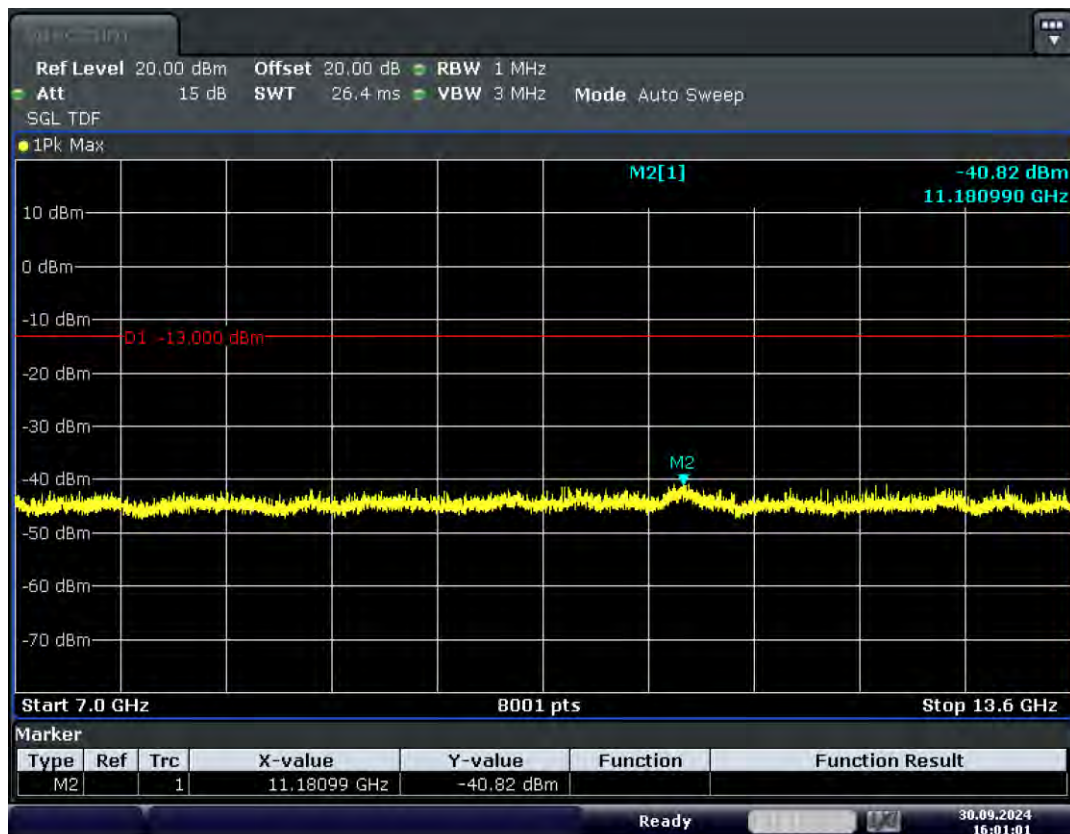
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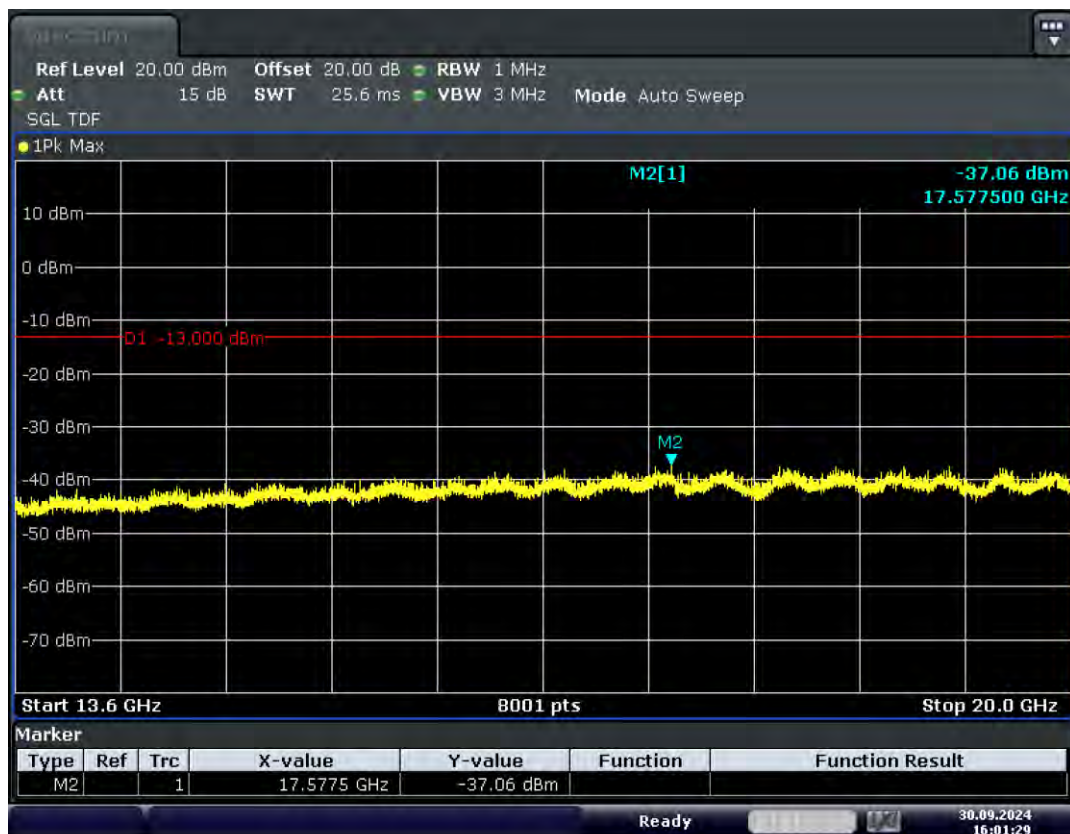
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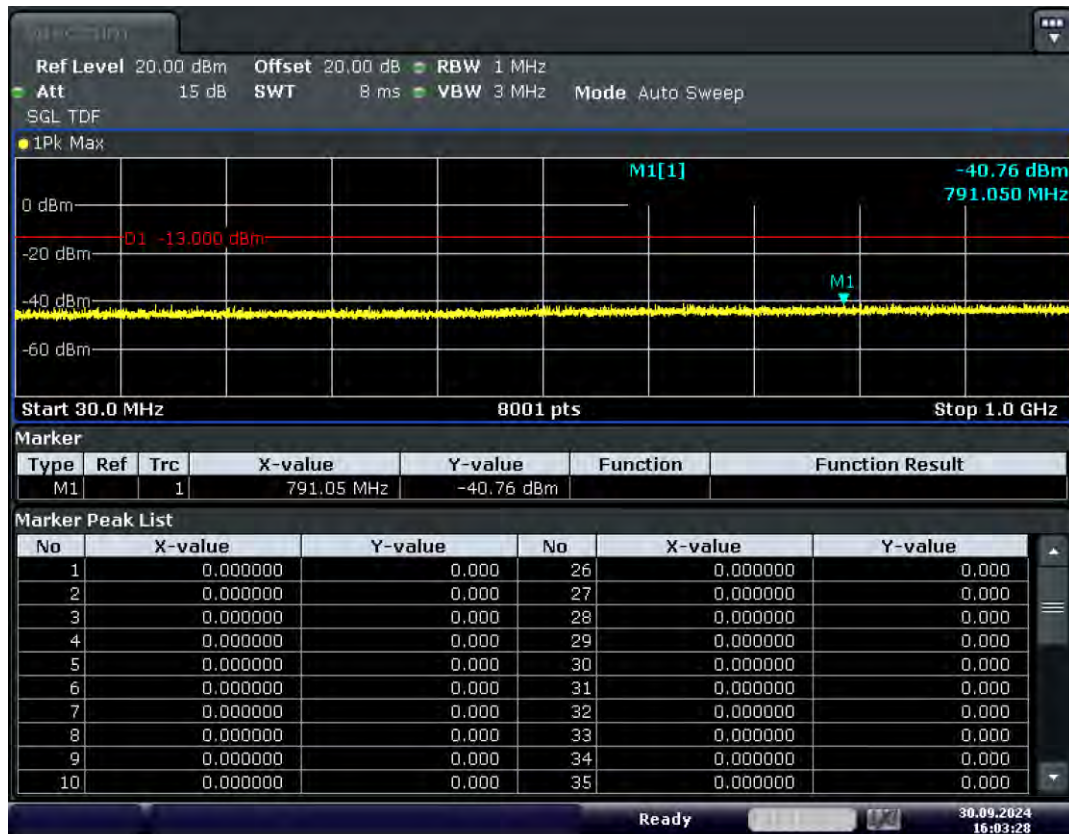
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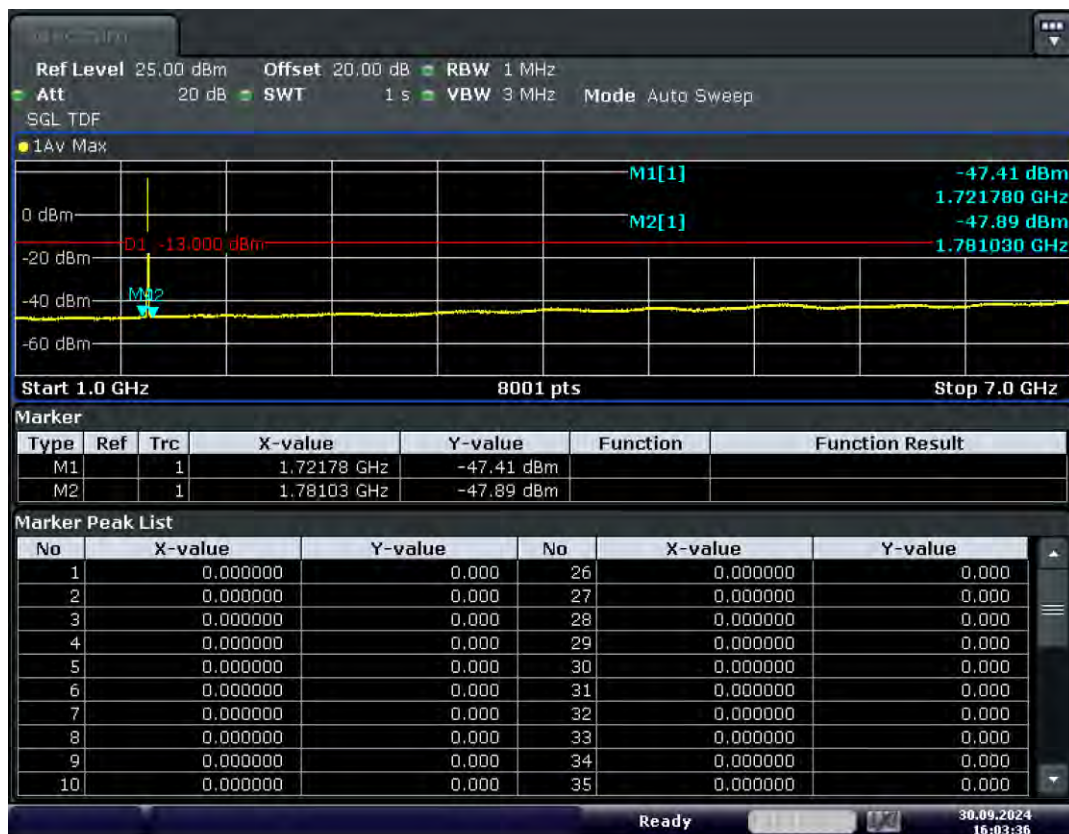
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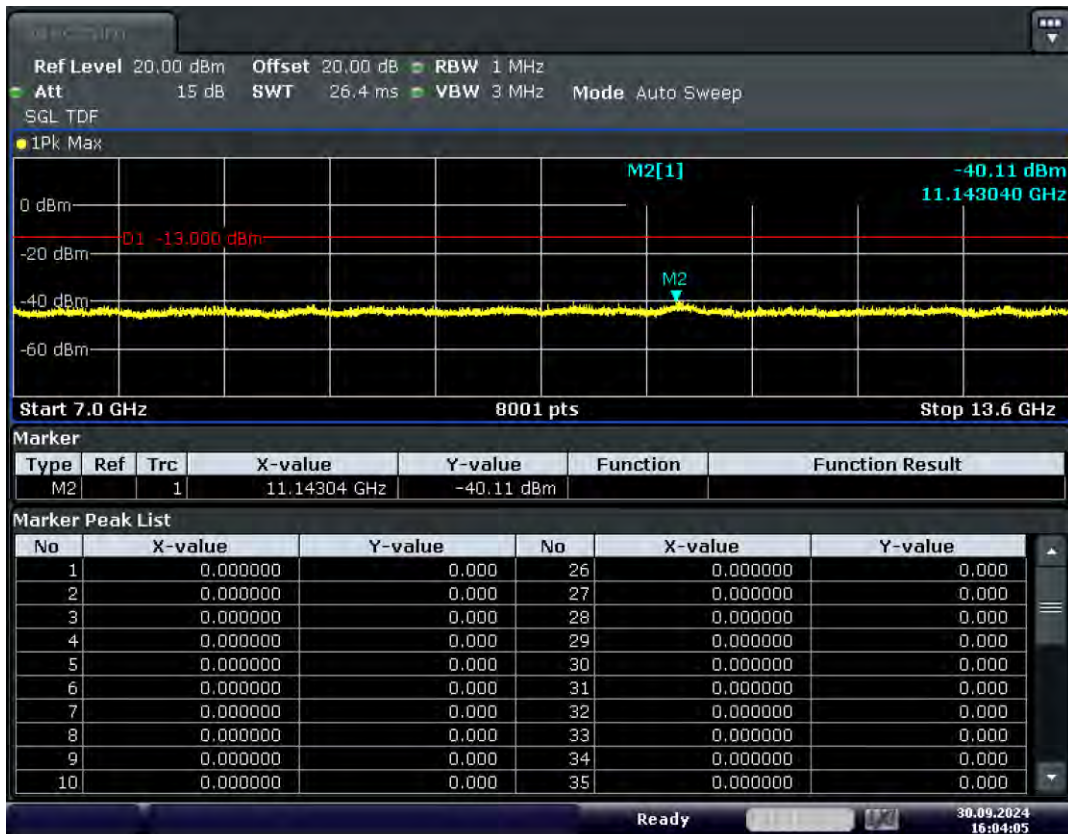
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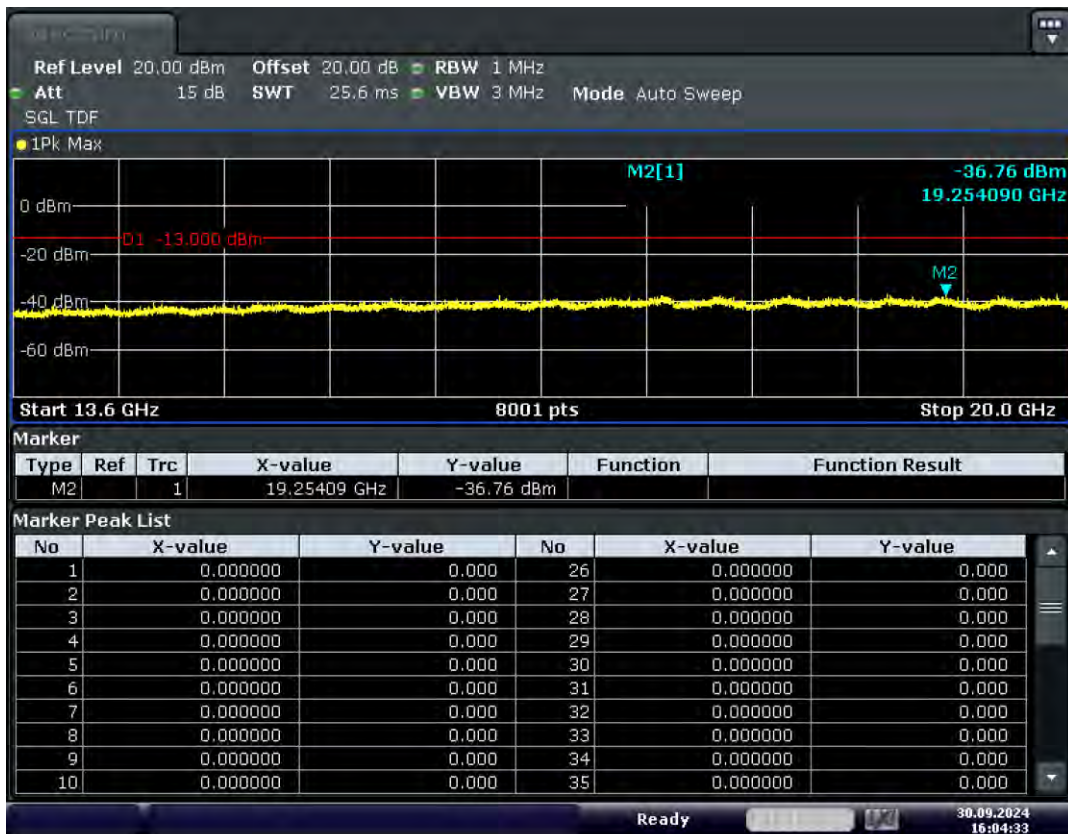
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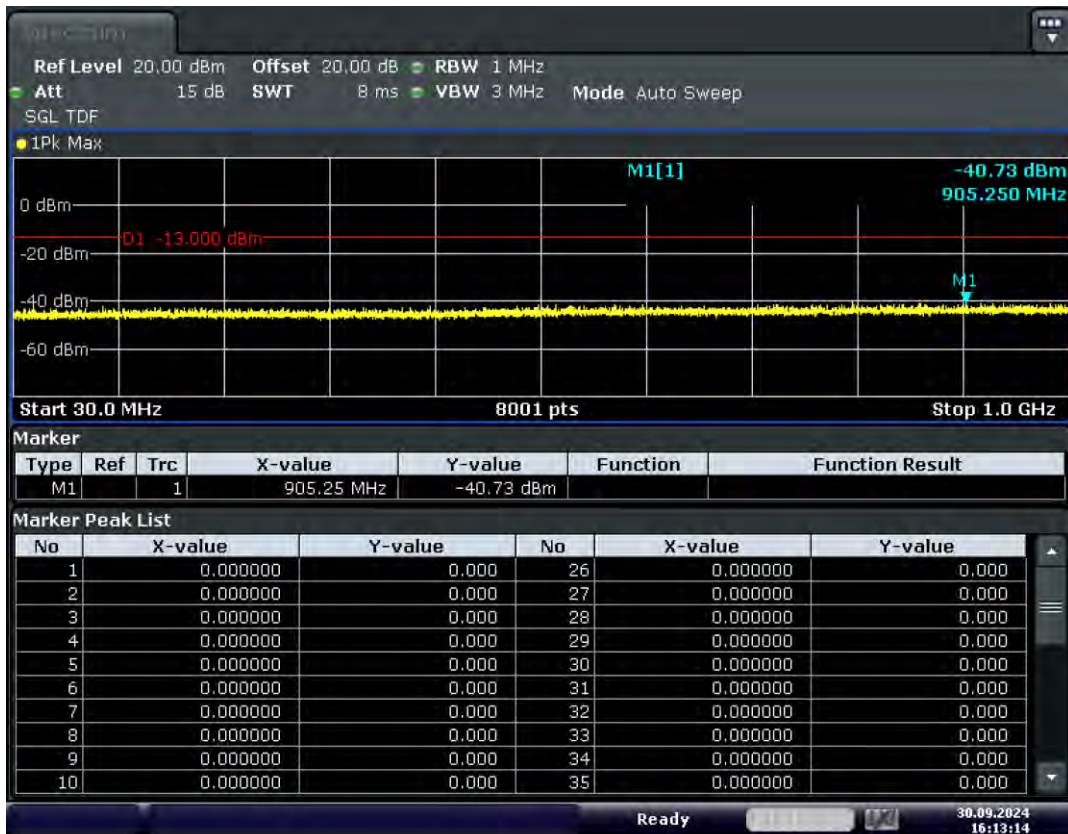
OB4-3-1753.5-QPSK-15#LOW@7GHz-13.6GHz@Pass



OB4-3-1753.5-QPSK-15#LOW@13.6GHz-20GHz@Pass



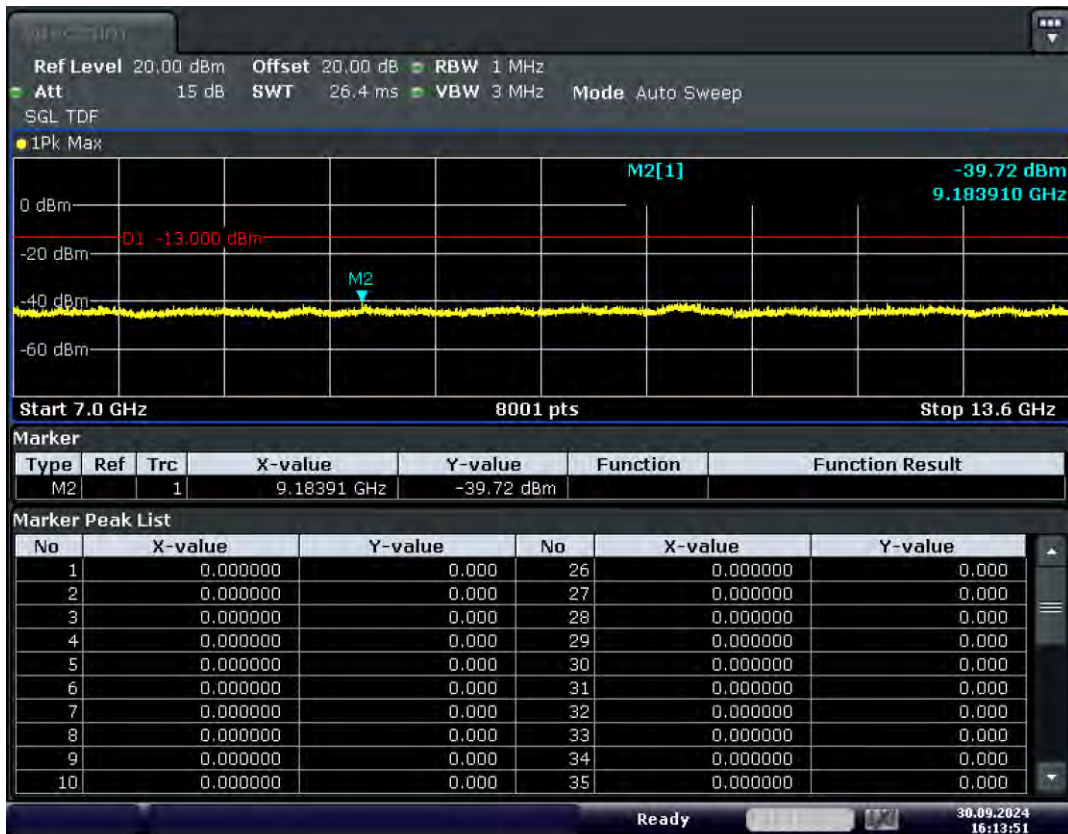
OB4-5-1712.5-QPSK-25#LOW@30mHz-1GHz@Pass



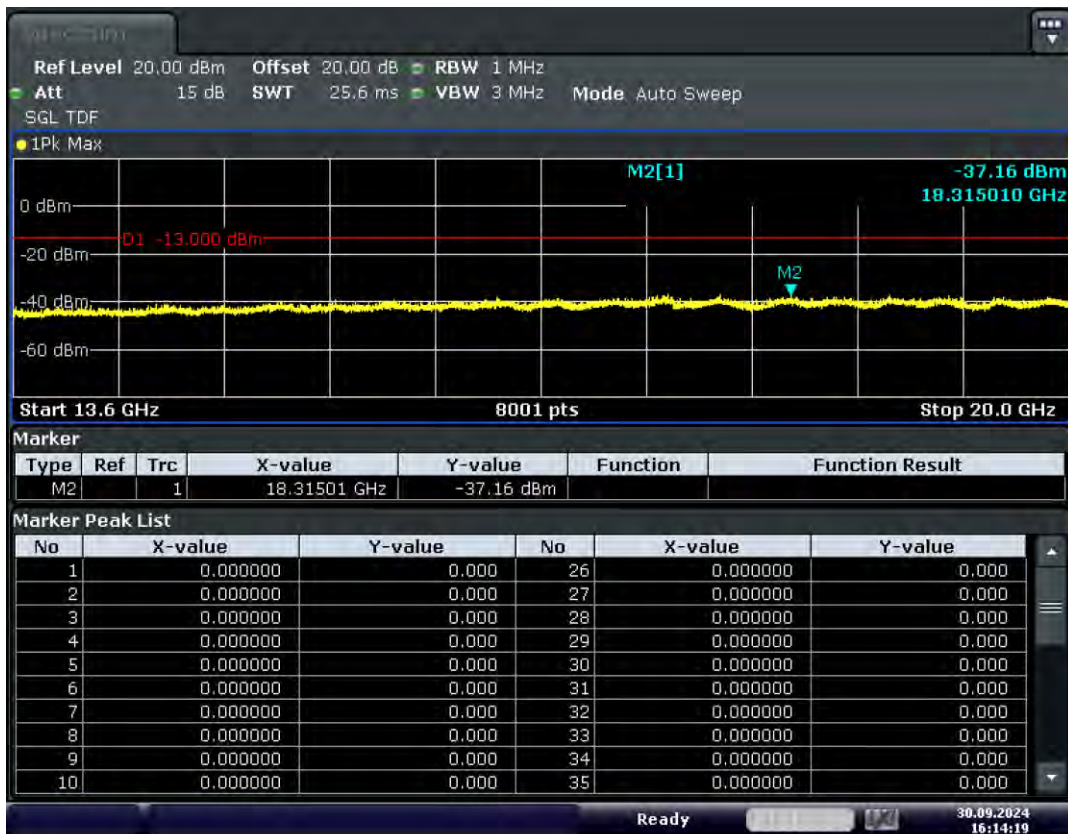
OB4-5-1712.5-QPSK-25#LOW@1GHz-7GHz@Pass



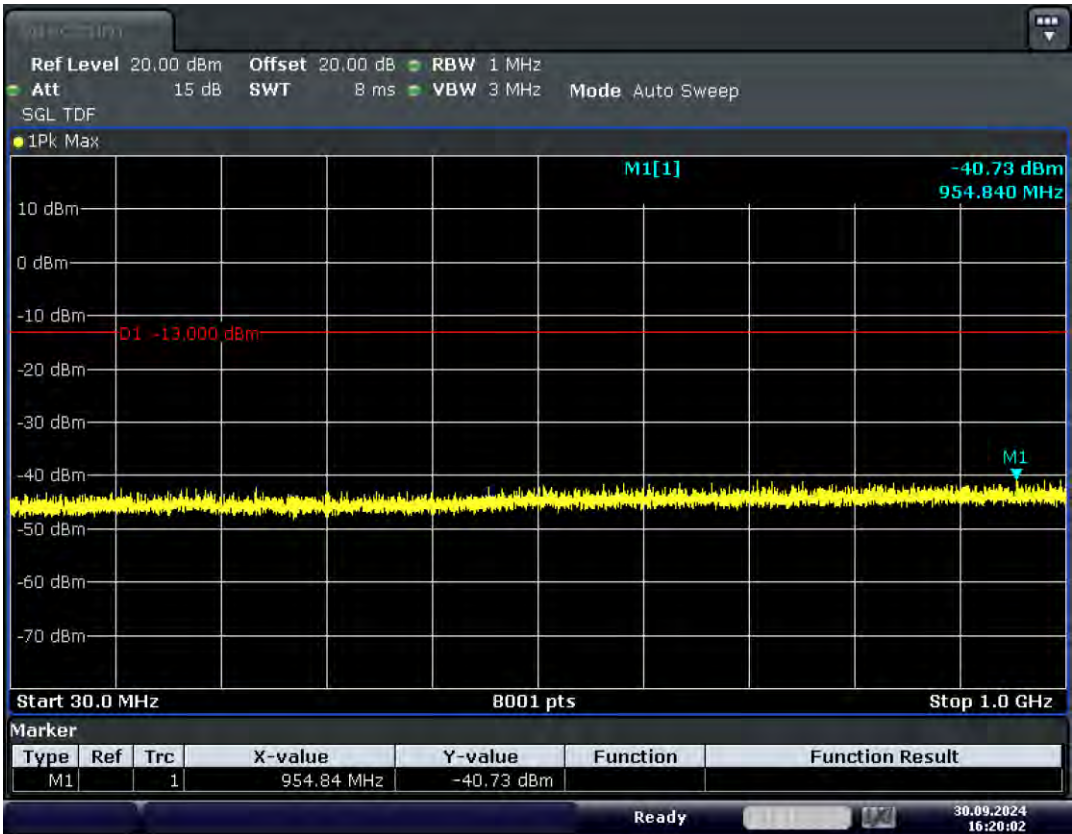
OB4-5-1712.5-QPSK-25#LOW@7GHz-13.6GHz@Pass



OB4-5-1712.5-QPSK-25#LOW@13.6GHz-20GHz@Pass



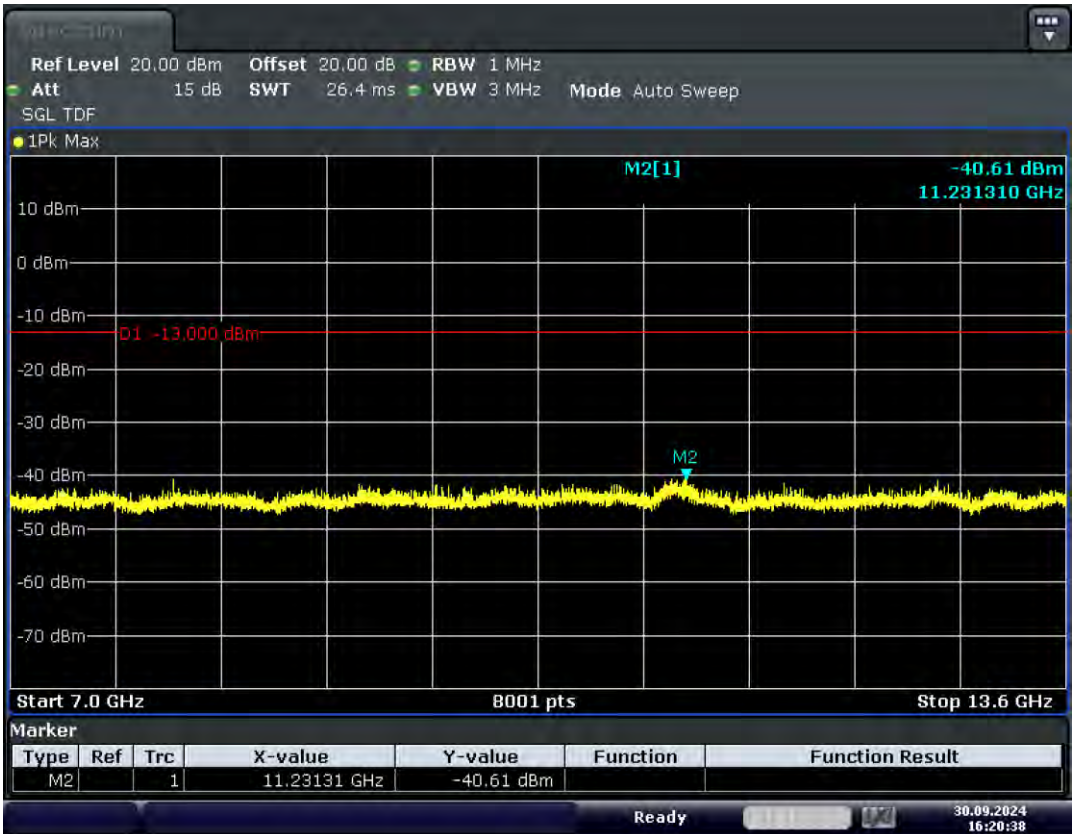
OB4-5-1732.5-QPSK-25#LOW@30mHz-1GHz@Pass



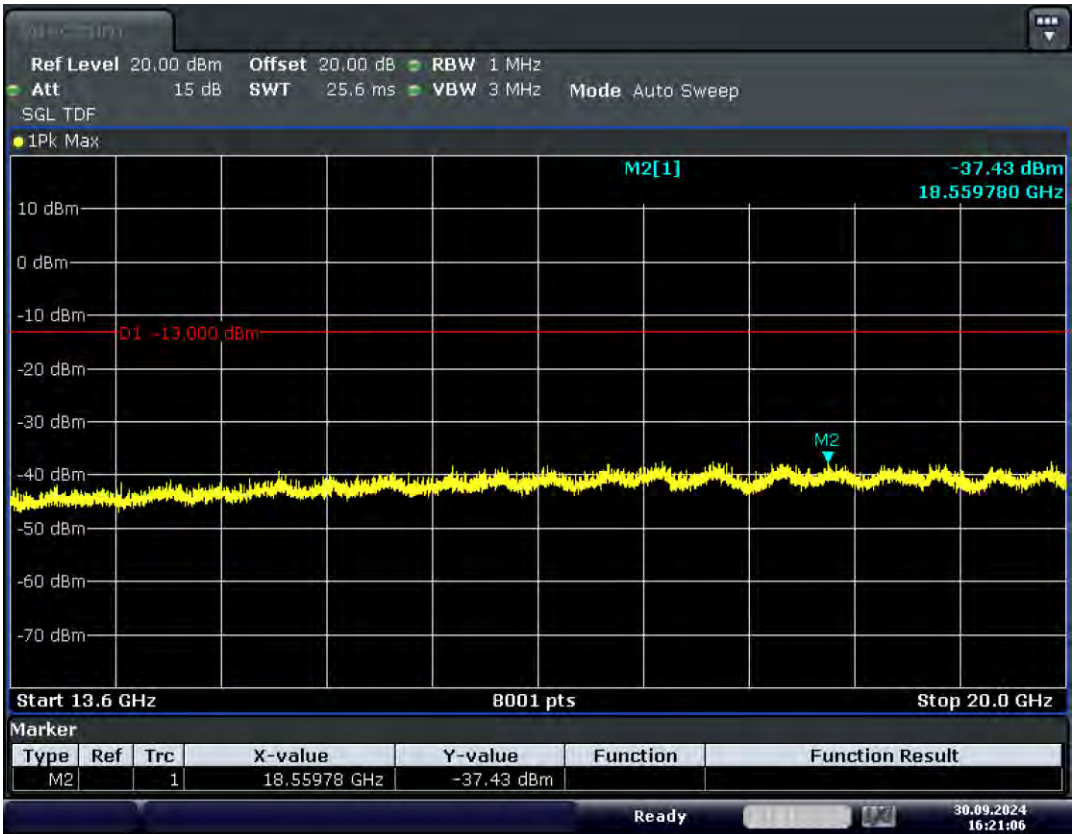
OB4-5-1732.5-QPSK-25#LOW@1GHz-7GHz@Pass



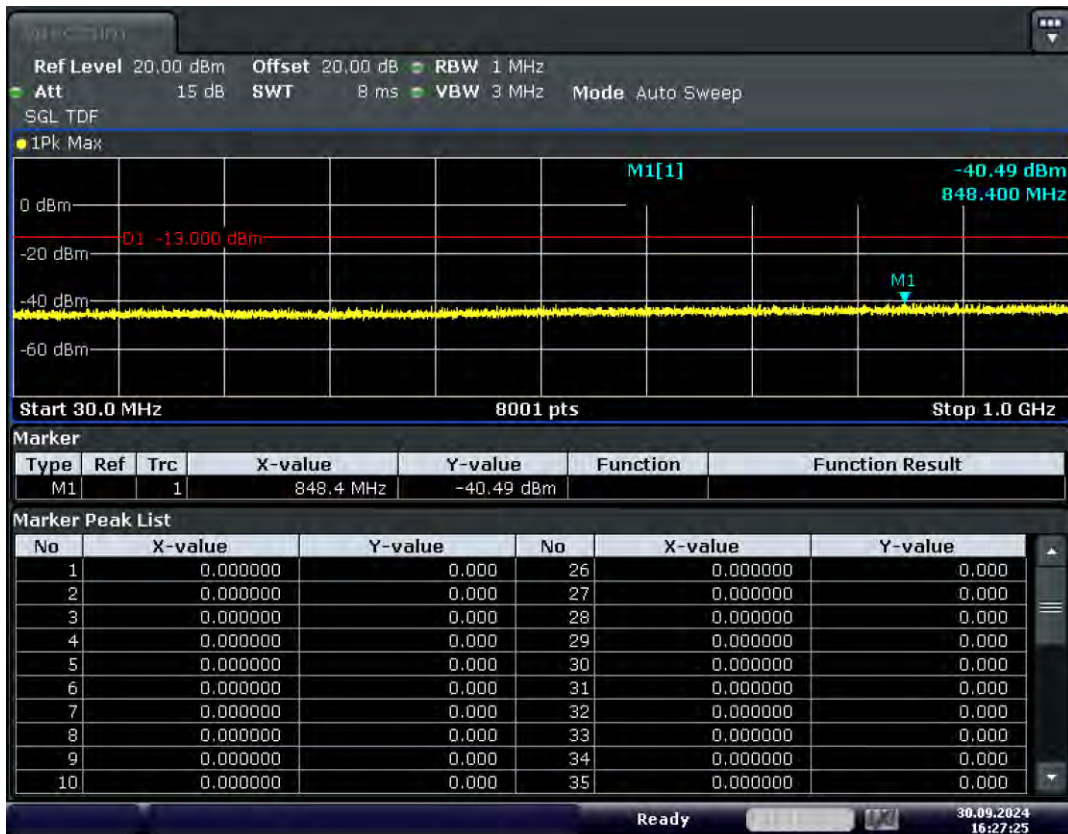
OB4-5-1732.5-QPSK-25#LOW@7GHz-13.6GHz@Pass



OB4-5-1732.5-QPSK-25#LOW@13.6GHz-20GHz@Pass



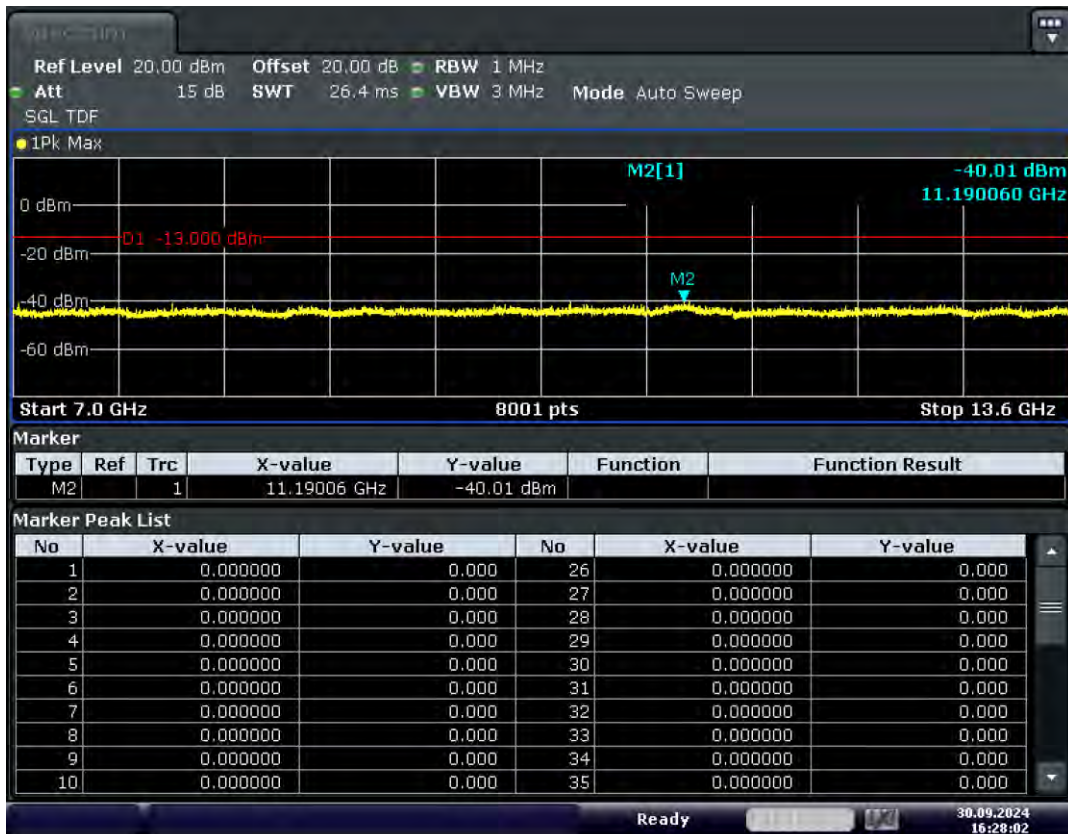
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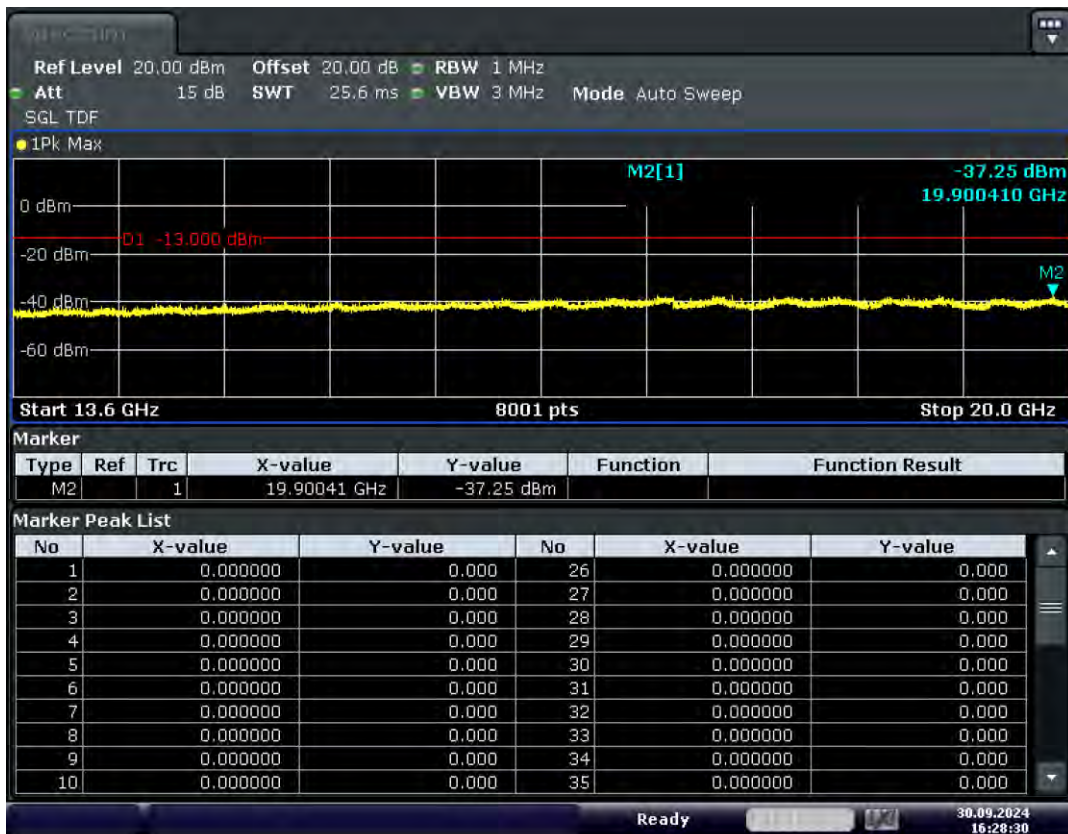
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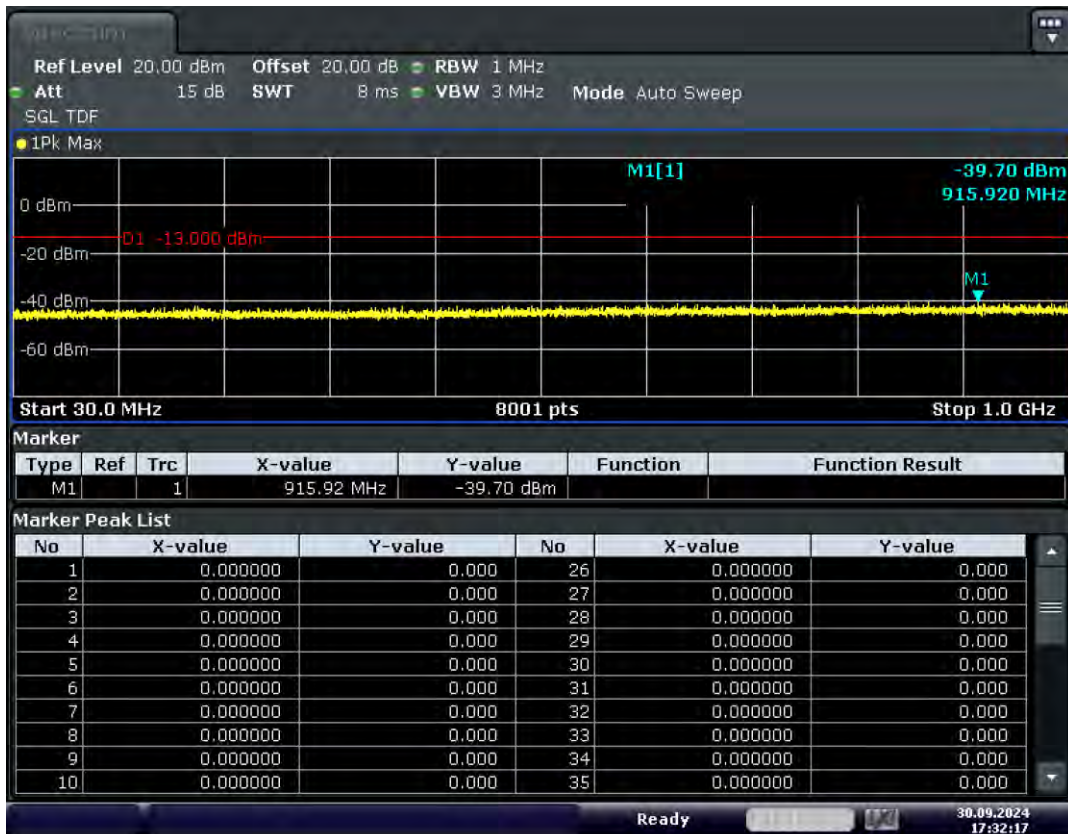
OB4-5-1752.5-QPSK-25#LOW@7GHz-13.6GHz@Pass



OB4-5-1752.5-QPSK-25#LOW@13.6GHz-20GHz@Pass



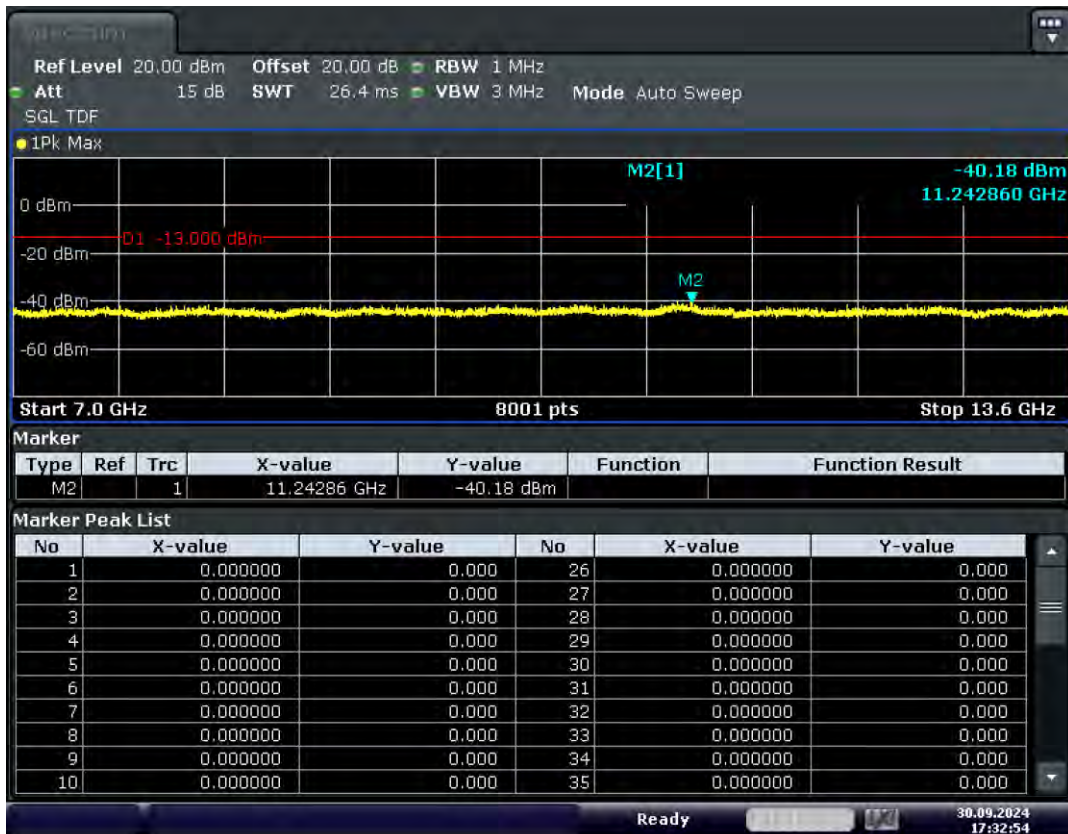
OB4-10-1715-QPSK-50#LOW@30mHz-1GHz@Pass



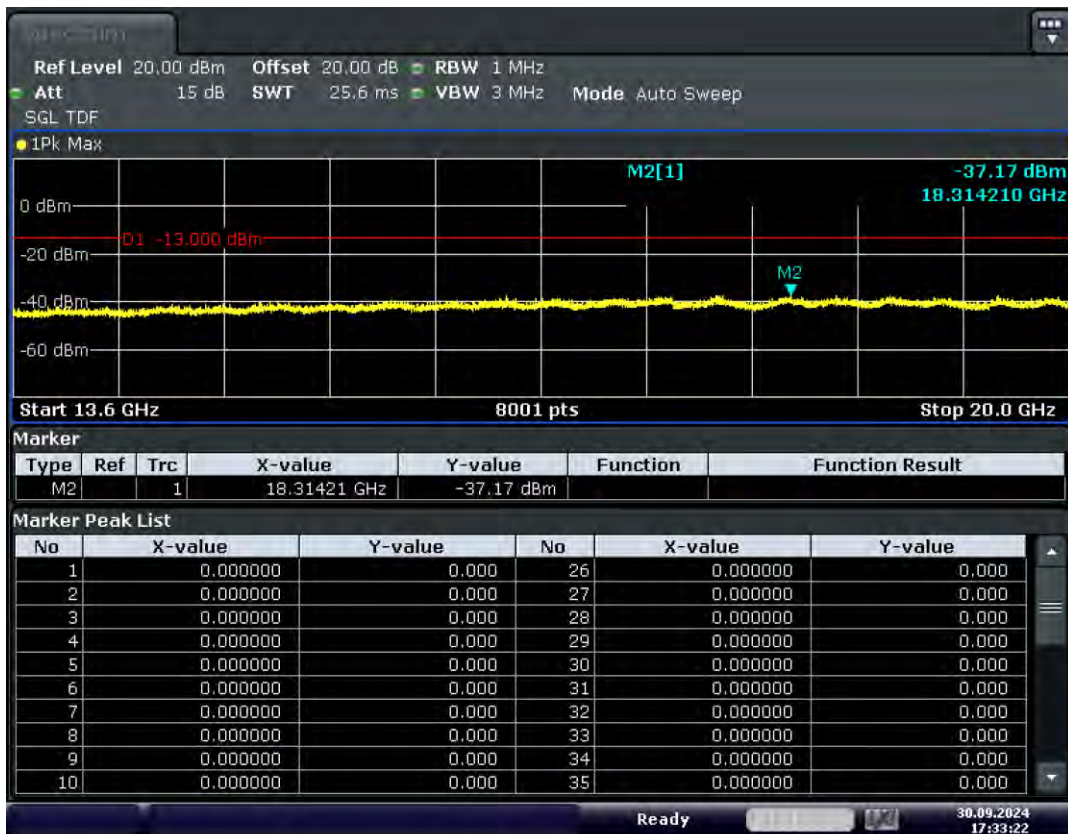
OB4-10-1715-QPSK-50#LOW@1GHz-7GHz@Pass



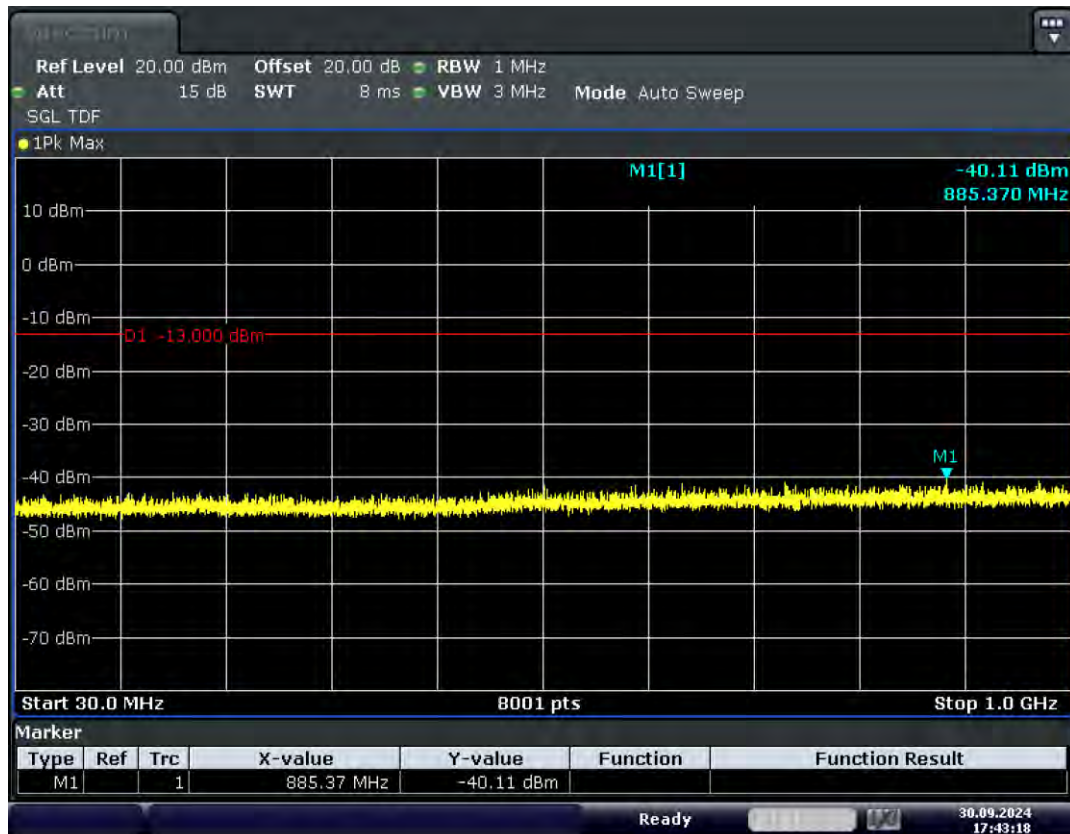
OB4-10-1715-QPSK-50#LOW@7GHz-13.6GHz@Pass



OB4-10-1715-QPSK-50#LOW@13.6GHz-20GHz@Pass



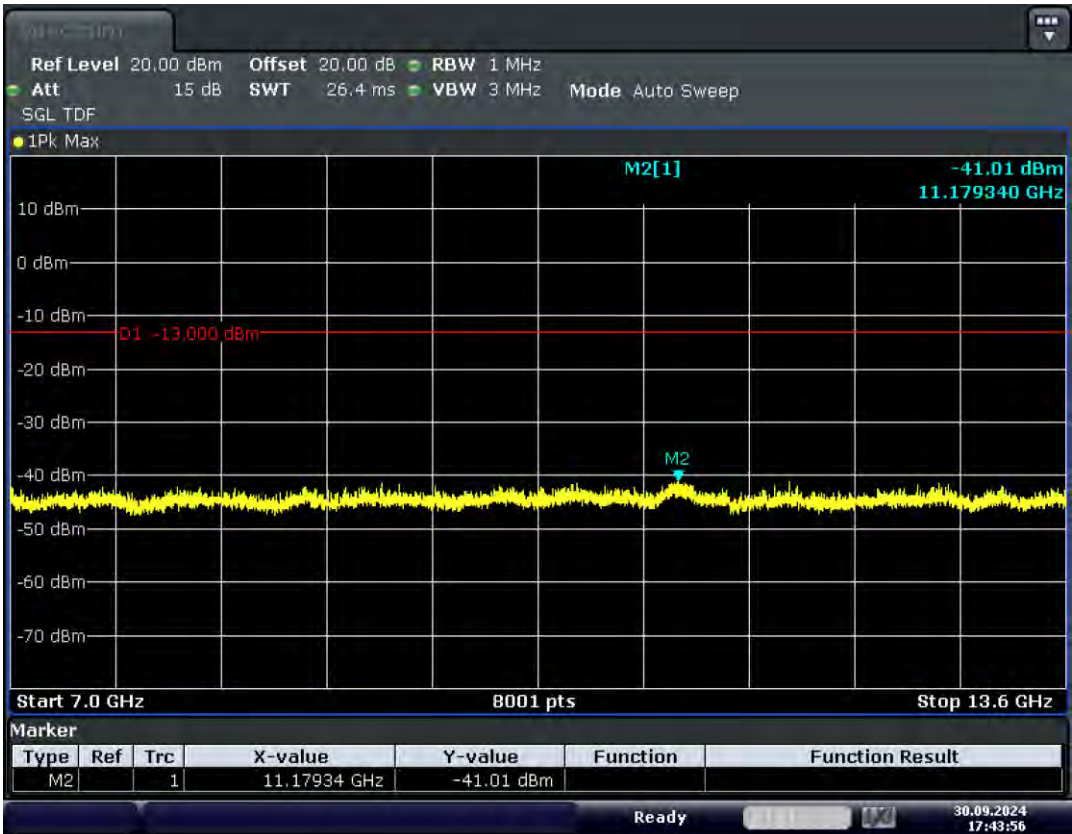
OB4-10-1732.5-QPSK-50#LOW@30mHz-1GHz@Pass



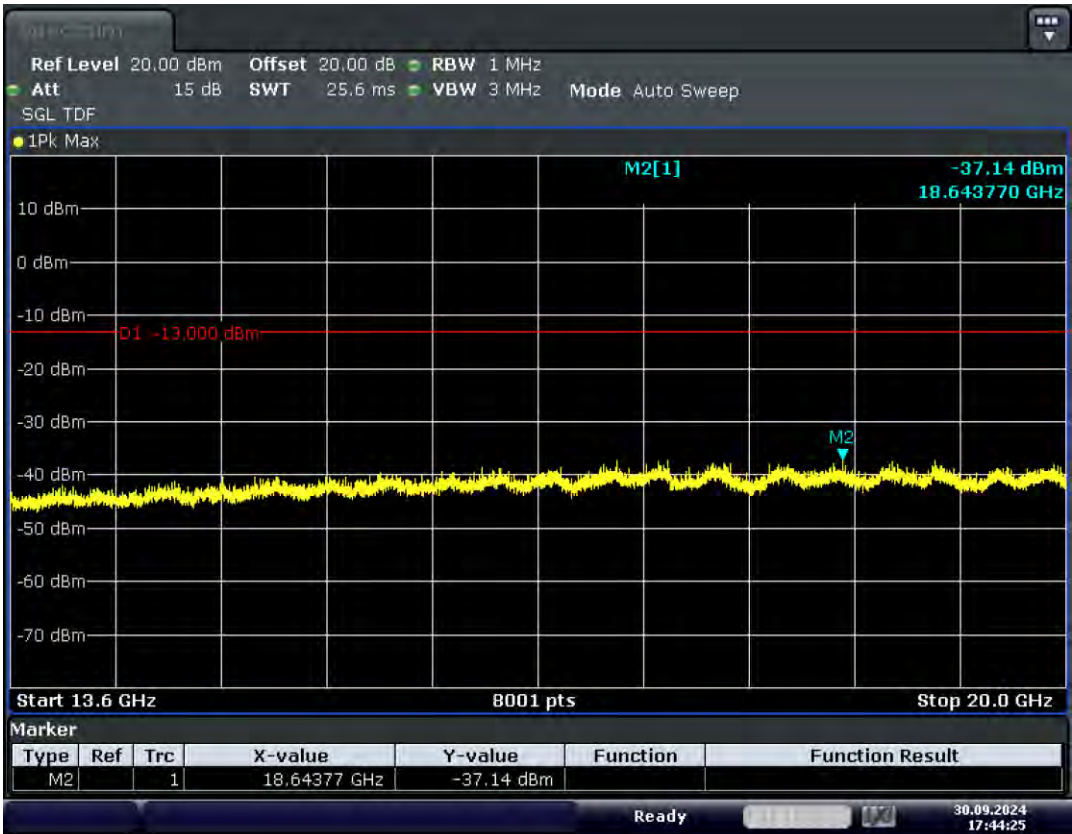
OB4-10-1732.5-QPSK-50#LOW@1GHz-7GHz@Pass



OB4-10-1732.5-QPSK-50#LOW@7GHz-13.6GHz@Pass



OB4-10-1732.5-QPSK-50#LOW@13.6GHz-20GHz@Pass



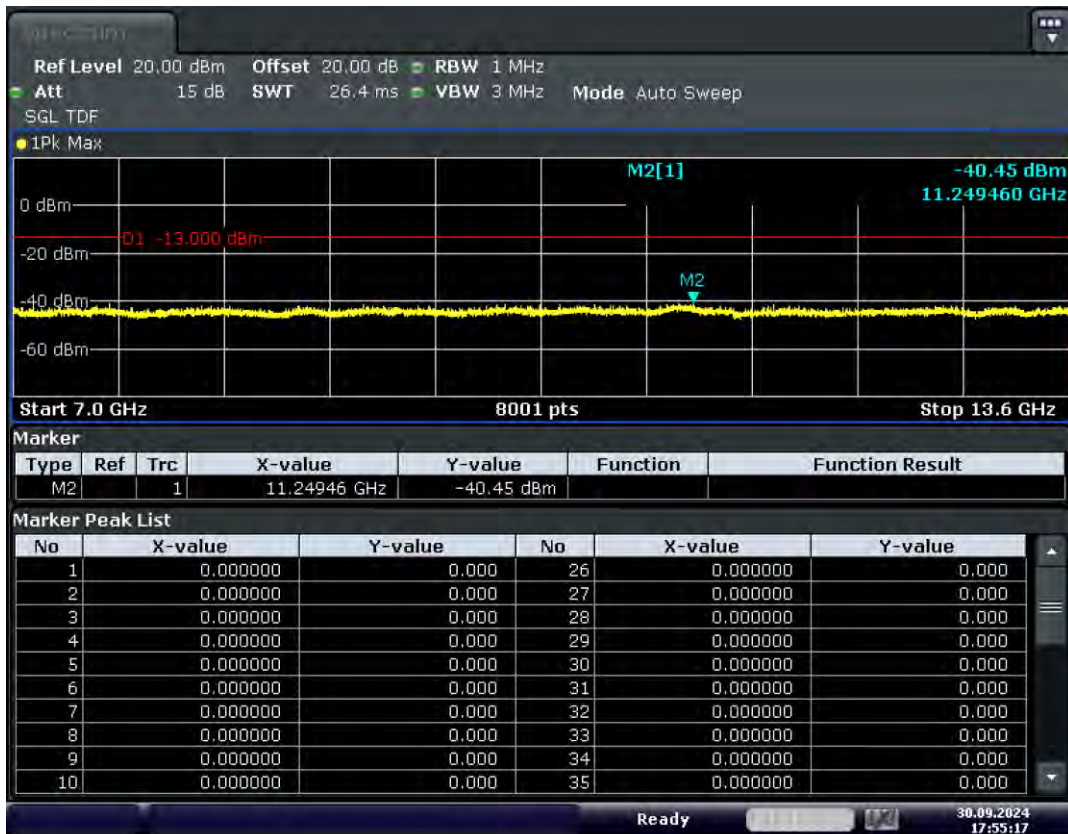
OB4-10-1750-QPSK-50#LOW@30mHz-1GHz@Pass



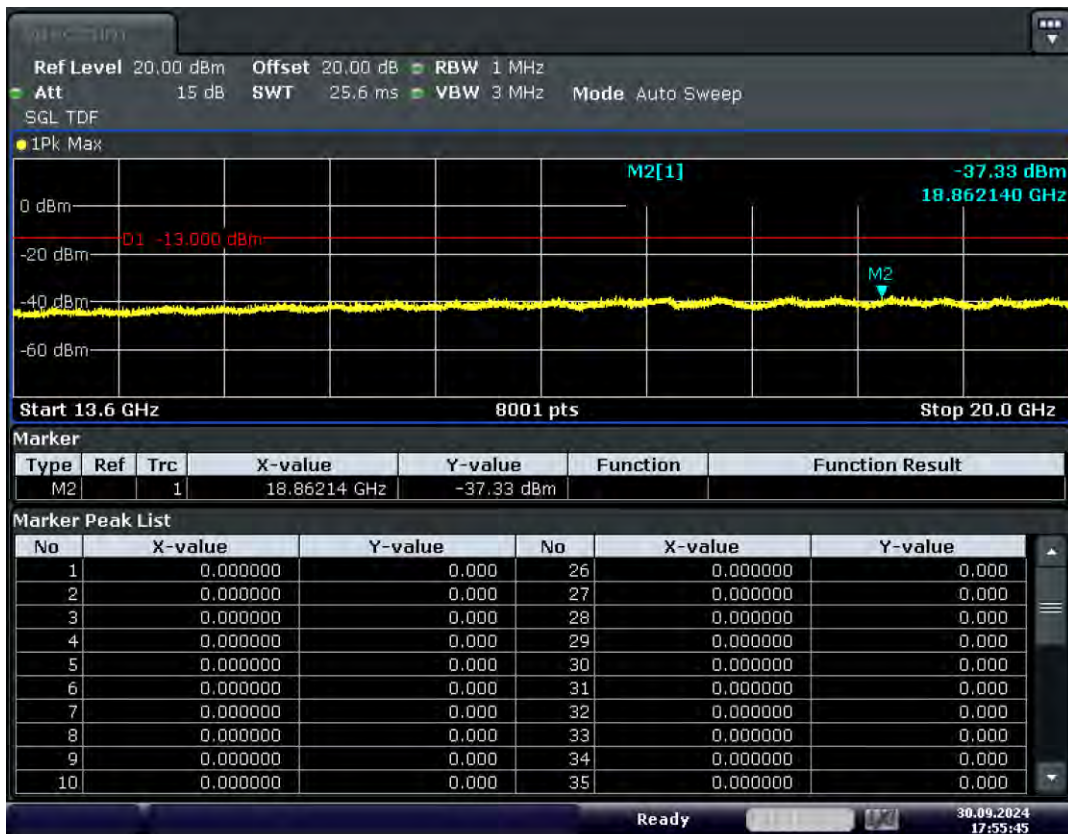
OB4-10-1750-QPSK-50#LOW@1GHz-7GHz@Pass



OB4-10-1750-QPSK-50#LOW@7GHz-13.6GHz@Pass



OB4-10-1750-QPSK-50#LOW@13.6GHz-20GHz@Pass



OB4-15-1717.5-QPSK-75#LOW@30mHz-1GHz@Pass



OB4-15-1717.5-QPSK-75#LOW@1GHz-7GHz@Pass



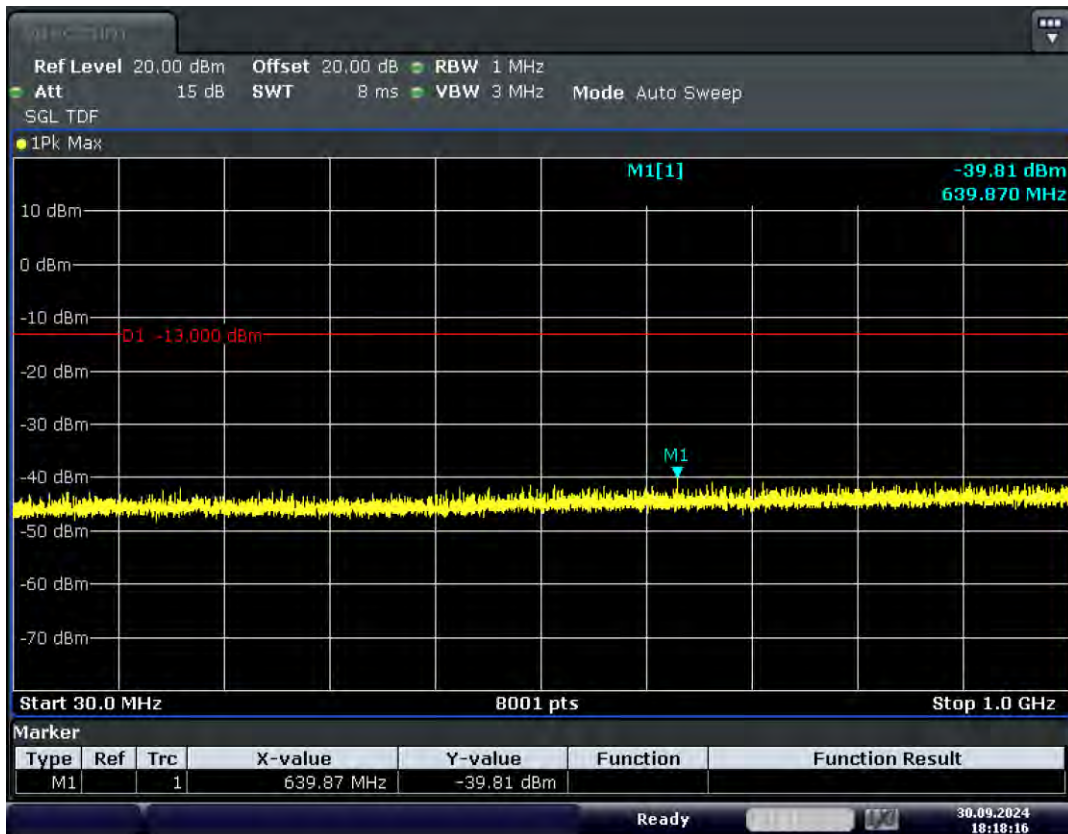
OB4-15-1717.5-QPSK-75#LOW@7GHz-13.6GHz@Pass



OB4-15-1717.5-QPSK-75#LOW@13.6GHz-20GHz@Pass



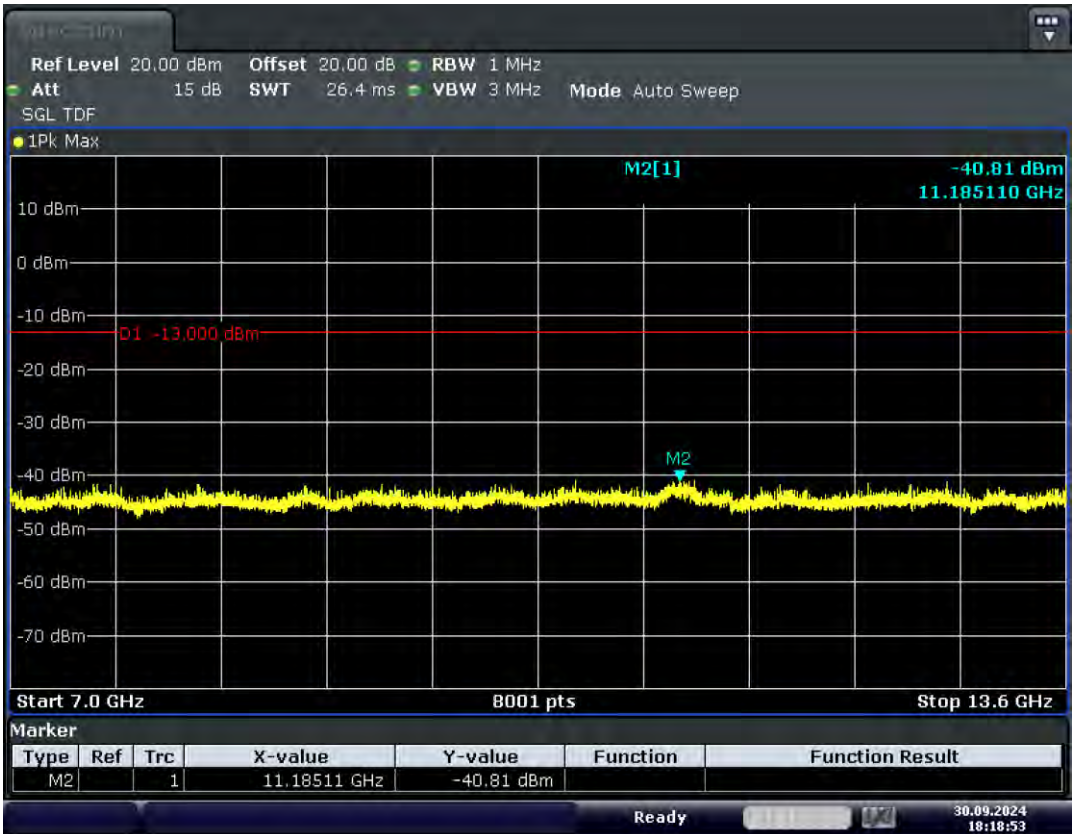
OB4-15-1732.5-QPSK-75#LOW@30mHz-1GHz@Pass



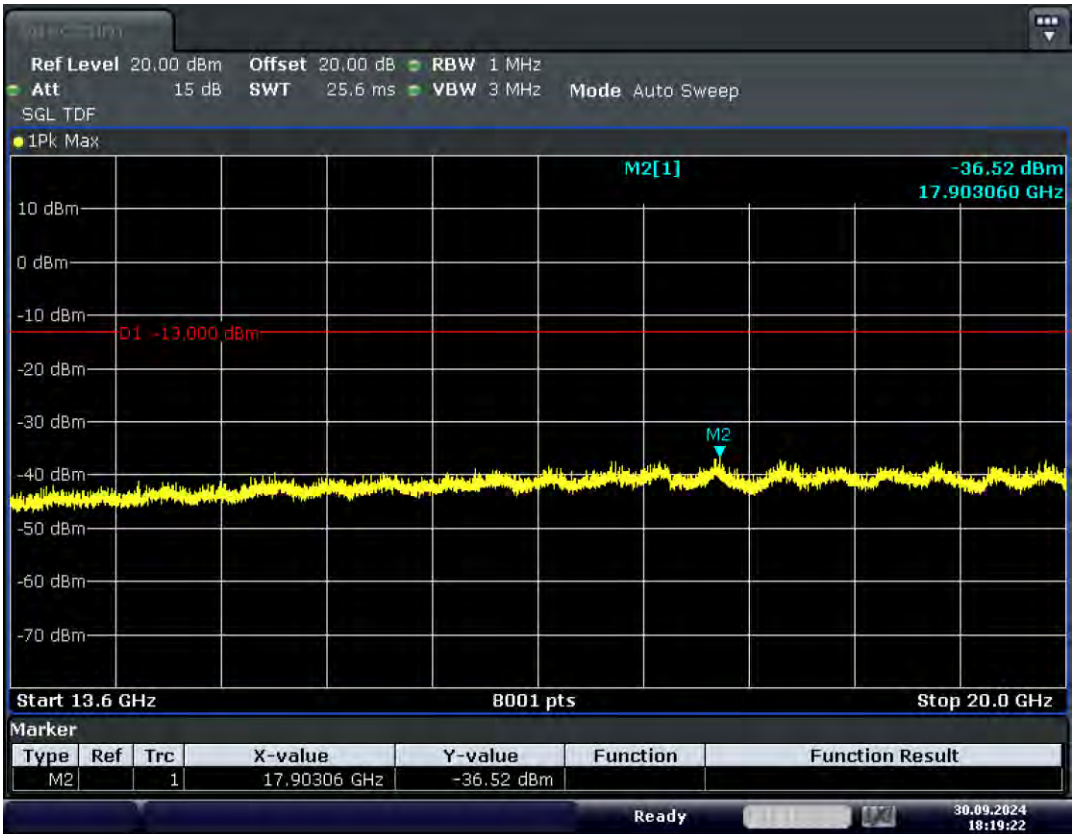
OB4-15-1732.5-QPSK-75#LOW@1GHz-7GHz@Pass



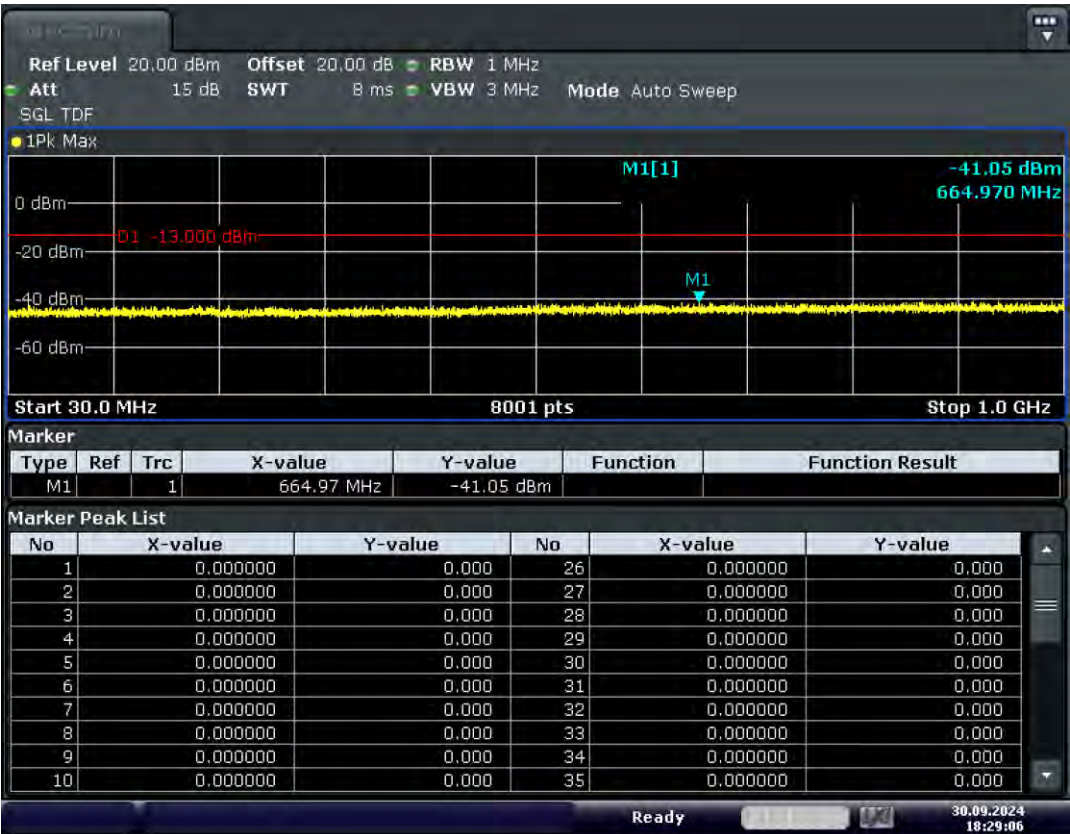
OB4-15-1732.5-QPSK-75#LOW@7GHz-13.6GHz@Pass



OB4-15-1732.5-QPSK-75#LOW@13.6GHz-20GHz@Pass



OB4-15-1747.5-QPSK-75#LOW@30mHz-1GHz@Pass



OB4-15-1747.5-QPSK-75#LOW@1GHz-7GHz@Pass



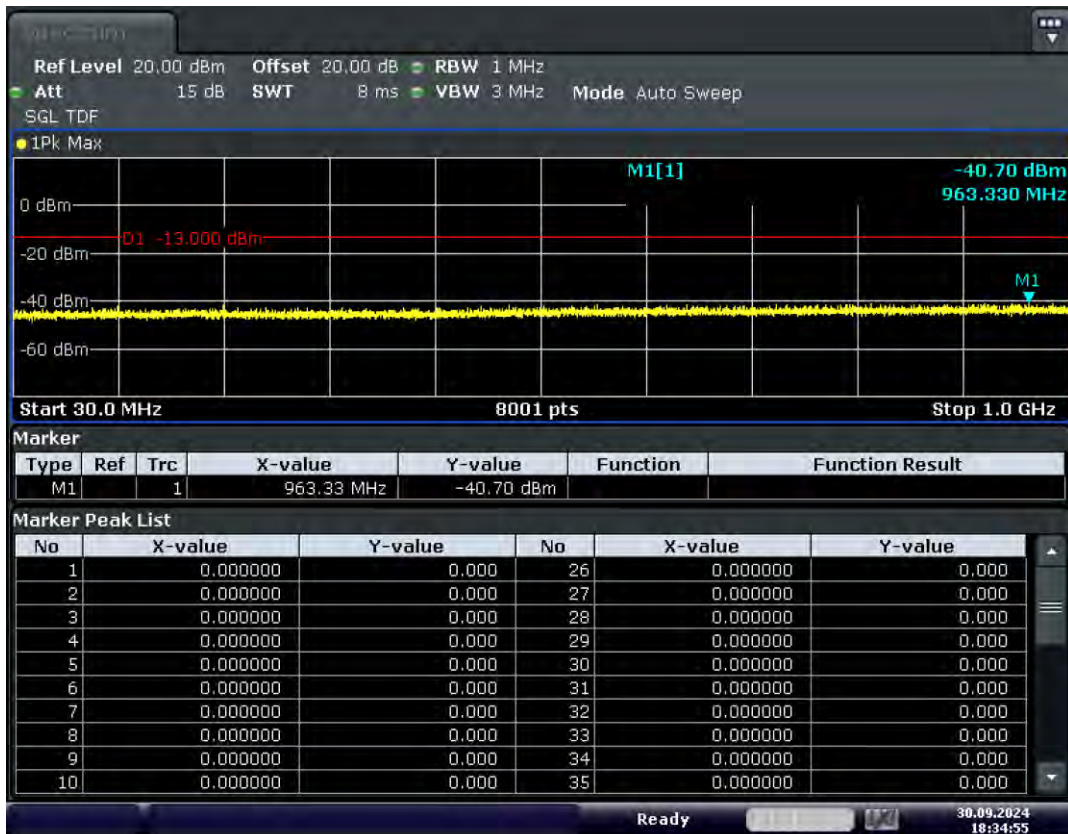
OB4-15-1747.5-QPSK-75#LOW@7GHz-13.6GHz@Pass



OB4-15-1747.5-QPSK-75#LOW@13.6GHz-20GHz@Pass



OB4-20-1720-QPSK-100#LOW@30mHz-1GHz@Pass



OB4-20-1720-QPSK-100#LOW@1GHz-7GHz@Pass



OB4-20-1720-QPSK-100#LOW@7GHz-13.6GHz@Pass



OB4-20-1720-QPSK-100#LOW@13.6GHz-20GHz@Pass



Emission bandwidth and OBW

Band	Bandwidth(MHz)	UL Frequency(MHz)	Modulation	RB Size	RB Offset	Occupied Bandwidth(MHz)	Emission Bandwidth(MHz)	Limit
Band4	1.4	1710.7	QPSK	6	LOW	1.102	1.284	No limit
Band4	1.4	1710.7	16QAM	6	LOW	1.102	1.302	No limit
Band4	1.4	1732.5	QPSK	6	LOW	1.099	1.29	No limit
Band4	1.4	1732.5	16QAM	6	LOW	1.123	1.308	No limit
Band4	1.4	1754.3	QPSK	6	LOW	1.109	1.283	No limit
Band4	1.4	1754.3	16QAM	6	LOW	1.112	1.322	No limit
Band4	3	1711.5	QPSK	15	LOW	2.717	2.979	No limit
Band4	3	1711.5	16QAM	15	LOW	2.72	2.997	No limit
Band4	3	1732.5	QPSK	15	LOW	2.723	2.988	No limit
Band4	3	1732.5	16QAM	15	LOW	2.714	2.931	No limit
Band4	3	1753.5	QPSK	15	LOW	2.723	3.123	No limit
Band4	3	1753.5	16QAM	15	LOW	2.723	2.976	No limit
Band4	5	1712.5	QPSK	25	LOW	4.558	4.94	No limit
Band4	5	1712.5	16QAM	25	LOW	4.563	5.02	No limit
Band4	5	1732.5	QPSK	25	LOW	4.568	5.04	No limit
Band4	5	1732.5	16QAM	25	LOW	4.578	5.075	No limit
Band4	5	1752.5	QPSK	25	LOW	4.593	5.325	No limit
Band4	5	1752.5	16QAM	25	LOW	4.573	4.995	No limit
Band4	10	1715	QPSK	50	LOW	5.247	6.04	No limit
Band4	10	1715	16QAM	27	LOW	5.237	6.13	No limit
Band4	10	1732.5	QPSK	50	LOW	9.165	10.17	No limit
Band4	10	1732.5	16QAM	27	LOW	5.237	6.13	No limit
Band4	10	1750	QPSK	50	LOW	9.245	10.23	No limit
Band4	10	1750	16QAM	27	LOW	5.317	7.97	No limit
Band4	15	1717.5	QPSK	75	LOW	5.262	6.09	No limit
Band4	15	1717.5	16QAM	27	LOW	5.217	6.24	No limit
Band4	15	1732.5	QPSK	75	LOW	13.553	14.805	No limit
Band4	15	1732.5	16QAM	27	LOW	5.247	6.18	No limit
Band4	15	1747.5	QPSK	75	LOW	13.598	16.77	No limit
Band4	15	1747.5	16QAM	27	LOW	5.337	9.315	No limit
Band4	20	1720	QPSK	100	LOW	5.977	7.48	No limit
Band4	20	1720	16QAM	27	LOW	5.977	7.3	No limit
Band4	20	1732.5	QPSK	100	LOW	18.371	20.38	No limit
Band4	20	1732.5	16QAM	27	LOW	5.957	7.36	No limit
Band4	20	1745	QPSK	100	LOW	18.471	23.7	No limit
Band4	20	1745	16QAM	27	LOW	6.097	10.28	No limit