Appendix B

E-UTRA Band 26 (814-824)

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1 Effective (Isotropic) Radiated Power

1.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	Verdict
Band26	1.4MHz	QPSK	26697	1RB#0	23.47	PASS
Band26	1.4MHz	QPSK	26697	1RB#2	23.06	PASS
Band26	1.4MHz	QPSK	26697	1RB#5	23.04	PASS
Band26	1.4MHz	QPSK	26697	3RB#0	23.31	PASS
Band26	1.4MHz	QPSK	26697	3RB#2	23.37	PASS
Band26	1.4MHz	QPSK	26697	3RB#3	23.45	PASS
Band26	1.4MHz	QPSK	26697	6RB#0	22.30	PASS
Band26	1.4MHz	QPSK	26740	1RB#0	23.09	PASS
Band26	1.4MHz	QPSK	26740	1RB#2	23.06	PASS
Band26	1.4MHz	QPSK	26740	1RB#5	23.46	PASS
Band26	1.4MHz	QPSK	26740	3RB#0	23.39	PASS
Band26	1.4MHz	QPSK	26740	3RB#2	23.46	PASS
Band26	1.4MHz	QPSK	26740	3RB#3	23.27	PASS
Band26	1.4MHz	QPSK	26740	6RB#0	22.01	PASS
Band26	1.4MHz	QPSK	26783	1RB#0	23.18	PASS
Band26	1.4MHz	QPSK	26783	1RB#2	23.43	PASS
Band26	1.4MHz	QPSK	26783	1RB#5	23.46	PASS
Band26	1.4MHz	QPSK	26783	3RB#0	23.23	PASS
Band26	1.4MHz	QPSK	26783	3RB#2	23.28	PASS
Band26	1.4MHz	QPSK	26783	3RB#3	23.09	PASS
Band26	1.4MHz	QPSK	26783	6RB#0	22.03	PASS
Band26	1.4MHz	16QAM	26697	1RB#0	22.50	PASS
Band26	1.4MHz	16QAM	26697	1RB#2	22.44	PASS
Band26	1.4MHz	16QAM	26697	1RB#5	22.18	PASS
Band26	1.4MHz	16QAM	26697	3RB#0	22.15	PASS
Band26	1.4MHz	16QAM	26697	3RB#2	22.31	PASS
Band26	1.4MHz	16QAM	26697	3RB#3	22.00	PASS
Band26	1.4MHz	16QAM	26697	6RB#0	21.28	PASS
Band26	1.4MHz	16QAM	26740	1RB#0	22.15	PASS
Band26	1.4MHz	16QAM	26740	1RB#2	22.06	PASS
Band26	1.4MHz	16QAM	26740	1RB#5	22.47	PASS
Band26	1.4MHz	16QAM	26740	3RB#0	22.20	PASS

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Band26	1.4MHz	16QAM	26740	3RB#2	22.21	PASS
Band26	1.4MHz	16QAM	26740	3RB#3	22.43	PASS
Band26	1.4MHz	16QAM	26740	6RB#0	21.35	PASS
Band26	1.4MHz	16QAM	26783	1RB#0	22.40	PASS
Band26	1.4MHz	16QAM	26783	1RB#2	22.03	PASS
Band26	1.4MHz	16QAM	26783	1RB#5	22.50	PASS
Band26	1.4MHz	16QAM	26783	3RB#0	22.23	PASS
Band26	1.4MHz	16QAM	26783	3RB#2	22.13	PASS
Band26	1.4MHz	16QAM	26783	3RB#3	22.35	PASS
Band26	1.4MHz	16QAM	26783	6RB#0	21.22	PASS
Band26	3MHz	QPSK	26705	1RB#0	23.46	PASS
Band26	3MHz	QPSK	26705	1RB#7	23.05	PASS
Band26	3MHz	QPSK	26705	1RB#14	23.17	PASS
Band26	3MHz	QPSK	26705	15RB#0	22.23	PASS
Band26	3MHz	QPSK	26705	8RB#0	22.02	PASS
Band26	3MHz	QPSK	26705	8RB#7	22.10	PASS
Band26	3MHz	QPSK	26705	15RB#0	22.30	PASS
Band26	3MHz	QPSK	26740	1RB#0	23.24	PASS
Band26	3MHz	QPSK	26740	1RB#7	23.01	PASS
Band26	3MHz	QPSK	26740	1RB#14	23.03	PASS
Band26	3MHz	QPSK	26740	15RB#0	22.06	PASS
Band26	3MHz	QPSK	26740	8RB#0	22.41	PASS
Band26	3MHz	QPSK	26740	8RB#7	22.11	PASS
Band26	3MHz	QPSK	26740	15RB#0	22.32	PASS
Band26	3MHz	QPSK	26775	1RB#0	23.23	PASS
Band26	3MHz	QPSK	26775	1RB#7	23.48	PASS
Band26	3MHz	QPSK	26775	1RB#14	23.32	PASS
Band26	3MHz	QPSK	26775	15RB#0	22.41	PASS
Band26	3MHz	QPSK	26775	8RB#0	22.12	PASS
Band26	3MHz	QPSK	26775	8RB#7	22.35	PASS
Band26	3MHz	QPSK	26775	15RB#0	22.07	PASS
Band26	3MHz	16QAM	26705	1RB#0	22.14	PASS
Band26	3MHz	16QAM	26705	1RB#7	22.10	PASS
Band26	3MHz	16QAM	26705	1RB#14	22.11	PASS
Band26	3MHz	16QAM	26705	15RB#0	21.42	PASS
Band26	3MHz	16QAM	26705	8RB#0	21.44	PASS
Band26	3MHz	16QAM	26705	8RB#7	21.37	PASS
Band26	3MHz	16QAM	26705	15RB#0	21.12	PASS
Band26	3MHz	16QAM	26740	1RB#0	22.29	PASS

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Band26	3MHz	16QAM	26740	1RB#7	22.09	PASS
Band26	3MHz	16QAM	26740	1RB#14	22.48	PASS
Band26	3MHz	16QAM	26740	15RB#0	21.30	PASS
Band26	3MHz	16QAM	26740	8RB#0	21.33	PASS
Band26	3MHz	16QAM	26740	8RB#7	21.15	PASS
Band26	3MHz	16QAM	26740	15RB#0	21.22	PASS
Band26	3MHz	16QAM	26775	1RB#0	22.26	PASS
Band26	3MHz	16QAM	26775	1RB#7	22.09	PASS
Band26	3MHz	16QAM	26775	1RB#14	22.18	PASS
Band26	3MHz	16QAM	26775	15RB#0	21.06	PASS
Band26	3MHz	16QAM	26775	8RB#0	21.10	PASS
Band26	3MHz	16QAM	26775	8RB#7	21.43	PASS
Band26	3MHz	16QAM	26775	15RB#0	21.17	PASS
Band26	5MHz	QPSK	26715	1RB#0	23.26	PASS
Band26	5MHz	QPSK	26715	1RB#13	23.13	PASS
Band26	5MHz	QPSK	26715	1RB#24	23.13	PASS
Band26	5MHz	QPSK	26715	12RB#0	22.43	PASS
Band26	5MHz	QPSK	26715	12RB#6	22.34	PASS
Band26	5MHz	QPSK	26715	12RB#13	22.45	PASS
Band26	5MHz	QPSK	26715	25RB#0	22.50	PASS
Band26	5MHz	QPSK	26740	1RB#0	23.29	PASS
Band26	5MHz	QPSK	26740	1RB#13	23.35	PASS
Band26	5MHz	QPSK	26740	1RB#24	23.19	PASS
Band26	5MHz	QPSK	26740	12RB#0	22.22	PASS
Band26	5MHz	QPSK	26740	12RB#6	22.11	PASS
Band26	5MHz	QPSK	26740	12RB#13	22.08	PASS
Band26	5MHz	QPSK	26740	25RB#0	22.27	PASS
Band26	5MHz	QPSK	26765	1RB#0	23.25	PASS
Band26	5MHz	QPSK	26765	1RB#13	23.13	PASS
Band26	5MHz	QPSK	26765	1RB#24	23.32	PASS
Band26	5MHz	QPSK	26765	12RB#0	22.03	PASS
Band26	5MHz	QPSK	26765	12RB#6	22.15	PASS
Band26	5MHz	QPSK	26765	12RB#13	22.50	PASS
Band26	5MHz	QPSK	26765	25RB#0	22.19	PASS
Band26	5MHz	16QAM	26715	1RB#0	22.33	PASS
Band26	5MHz	16QAM	26715	1RB#13	22.20	PASS
Band26	5MHz	16QAM	26715	1RB#24	22.07	PASS
Band26	5MHz	16QAM	26715	12RB#0	21.45	PASS
Band26	5MHz	16QAM	26715	12RB#6	21.38	PASS

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Band26	5MHz	16QAM	26715	12RB#13	21.22	PASS
Band26	5MHz	16QAM	26715	25RB#0	21.04	PASS
Band26	5MHz	16QAM	26740	1RB#0	22.06	PASS
Band26	5MHz	16QAM	26740	1RB#13	22.16	PASS
Band26	5MHz	16QAM	26740	1RB#24	22.47	PASS
Band26	5MHz	16QAM	26740	12RB#0	21.24	PASS
Band26	5MHz	16QAM	26740	12RB#6	21.27	PASS
Band26	5MHz	16QAM	26740	12RB#13	21.08	PASS
Band26	5MHz	16QAM	26740	25RB#0	21.26	PASS
Band26	5MHz	16QAM	26765	1RB#0	22.07	PASS
Band26	5MHz	16QAM	26765	1RB#13	22.30	PASS
Band26	5MHz	16QAM	26765	1RB#24	22.33	PASS
Band26	5MHz	16QAM	26765	12RB#0	21.48	PASS
Band26	5MHz	16QAM	26765	12RB#6	21.35	PASS
Band26	5MHz	16QAM	26765	12RB#13	21.24	PASS
Band26	5MHz	16QAM	26765	25RB#0	21.35	PASS
Band26	10MHz	QPSK	26740	1RB#0	23.36	PASS
Band26	10MHz	QPSK	26740	1RB#25	23.36	PASS
Band26	10MHz	QPSK	26740	1RB#49	23.42	PASS
Band26	10MHz	QPSK	26740	25RB#0	22.02	PASS
Band26	10MHz	QPSK	26740	25RB#13	22.28	PASS
Band26	10MHz	QPSK	26740	25RB#25	22.02	PASS
Band26	10MHz	QPSK	26740	50RB#0	22.21	PASS
Band26	10MHz	16QAM	26740	1RB#0	22.34	PASS
Band26	10MHz	16QAM	26740	1RB#25	22.46	PASS
Band26	10MHz	16QAM	26740	1RB#49	22.08	PASS
Band26	10MHz	16QAM	26740	25RB#0	21.35	PASS
Band26	10MHz	16QAM	26740	25RB#13	21.01	PASS
Band26	10MHz	16QAM	26740	25RB#25	21.48	PASS
Band26	10MHz	16QAM	26740	50RB#0	21.08	PASS

Remark:

a: For getting the EIRP (Efficient Isotropic Radiated Power), the following formula should be taken to calculate it,

ERP [dBm] = Conducted Power [dBm] + Gain [dBd]

EIRP [dBm] = Conducted Power [dBm] + Gain [dBi]

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2. Peak-to-Average Ratio (CCDF)

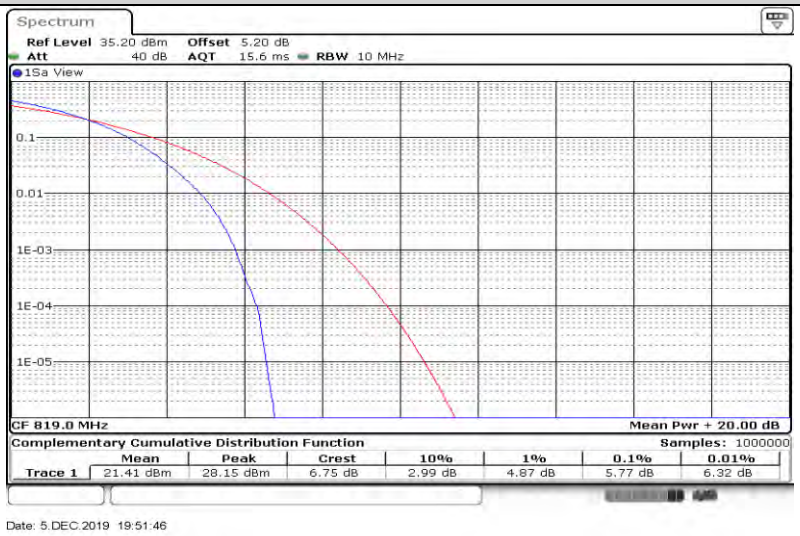
2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band26	10MHz	QPSK	26740	50RB#0	4.78	13	PASS
Band26	10MHz	16QAM	26740	50RB#0	5.77	13	PASS

2.2. Test Plots

Band26-10MHz-QPSK-26740-50RB#0

Band26-10MHz-16QAM-26740-50RB#0



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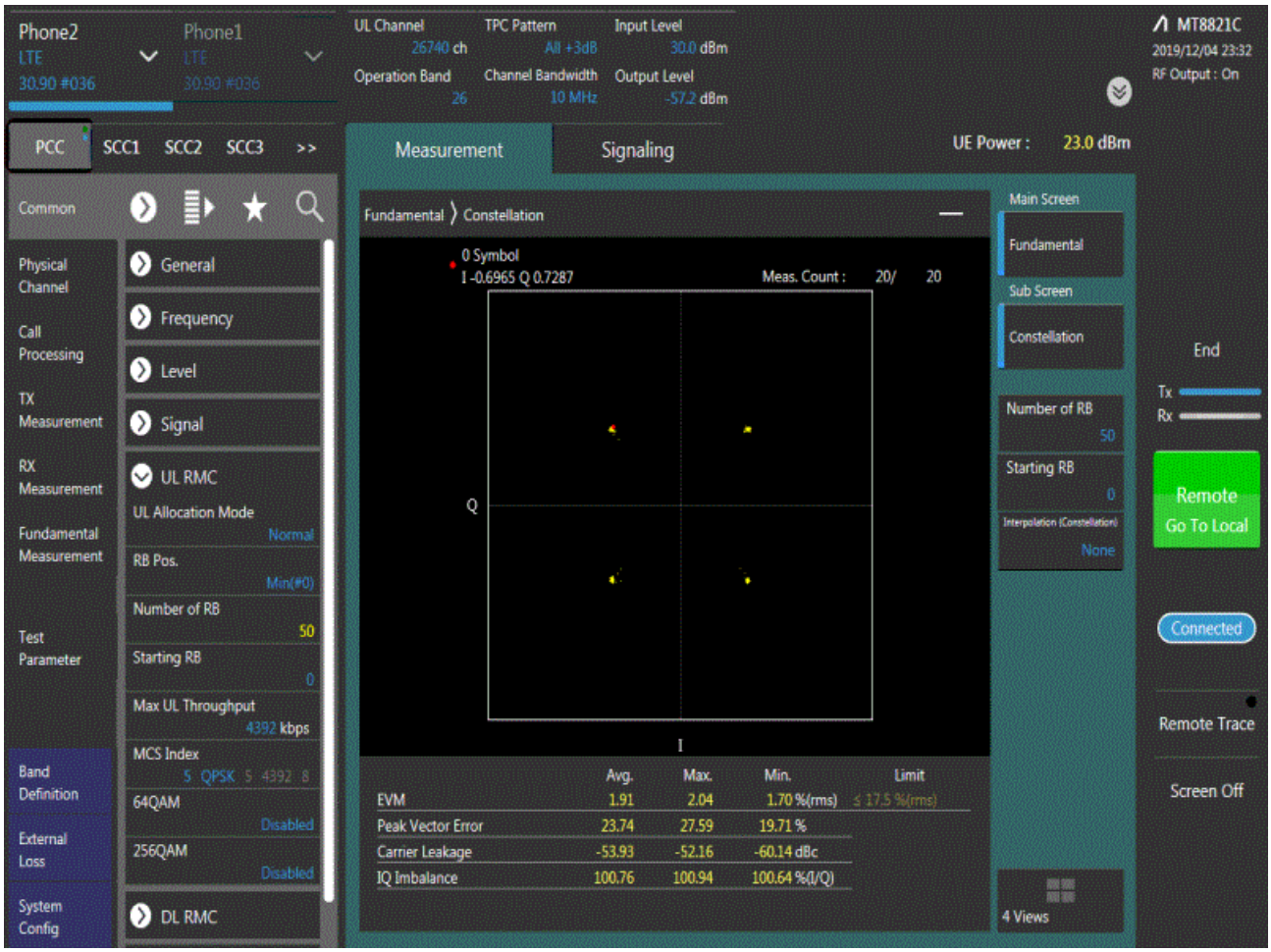
3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 10MHz

3.1.1. Test Channel = MCH



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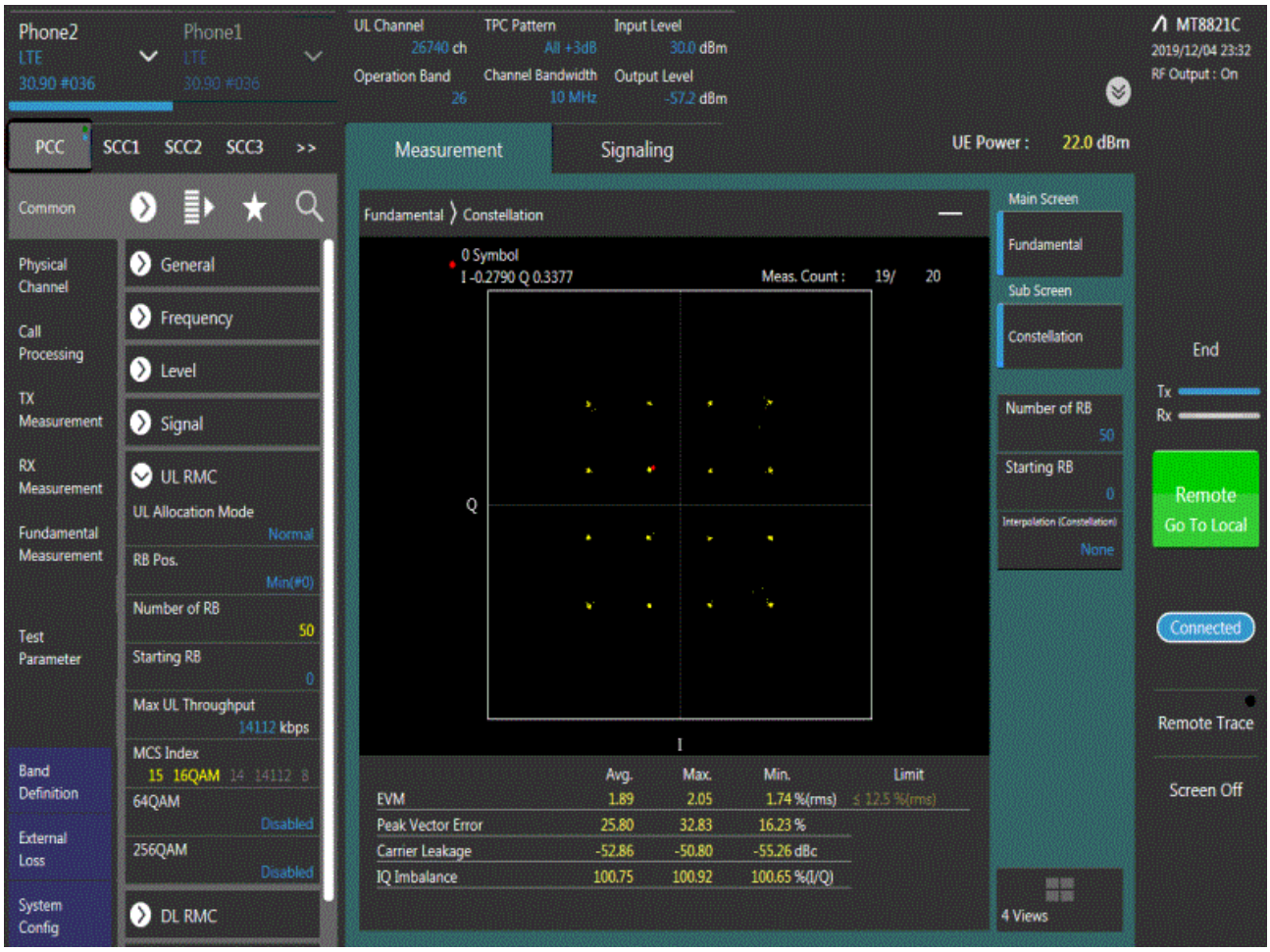
3.2. Test Mode = LTE /TM2 10MHz

3.2.1.Test Channel = MCH



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4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band26	1.4MHz	QPSK	26697	6RB#0	1.094	1.293	PASS
Band26	1.4MHz	QPSK	26740	6RB#0	1.091	1.290	PASS
Band26	1.4MHz	QPSK	26783	6RB#0	1.094	1.296	PASS
Band26	1.4MHz	16QAM	26697	6RB#0	1.088	1.281	PASS
Band26	1.4MHz	16QAM	26740	6RB#0	1.088	1.284	PASS
Band26	1.4MHz	16QAM	26783	6RB#0	1.091	1.281	PASS
Band26	3MHz	QPSK	26705	15RB#0	2.697	2.982	PASS
Band26	3MHz	QPSK	26740	15RB#0	2.697	3.000	PASS
Band26	3MHz	QPSK	26775	15RB#0	2.691	2.970	PASS
Band26	3MHz	16QAM	26705	15RB#0	2.685	2.970	PASS
Band26	3MHz	16QAM	26740	15RB#0	2.685	2.976	PASS
Band26	3MHz	16QAM	26775	15RB#0	2.691	2.976	PASS
Band26	5MHz	QPSK	26715	25RB#0	4.466	4.920	PASS
Band26	5MHz	QPSK	26740	25RB#0	4.466	4.920	PASS
Band26	5MHz	QPSK	26765	25RB#0	4.476	4.930	PASS
Band26	5MHz	16QAM	26715	25RB#0	4.486	4.950	PASS
Band26	5MHz	16QAM	26740	25RB#0	4.476	4.970	PASS
Band26	5MHz	16QAM	26765	25RB#0	4.486	4.950	PASS
Band26	10MHz	QPSK	26740	50RB#0	8.891	9.660	PASS
Band26	10MHz	16QAM	26740	50RB#0	8.891	9.700	PASS

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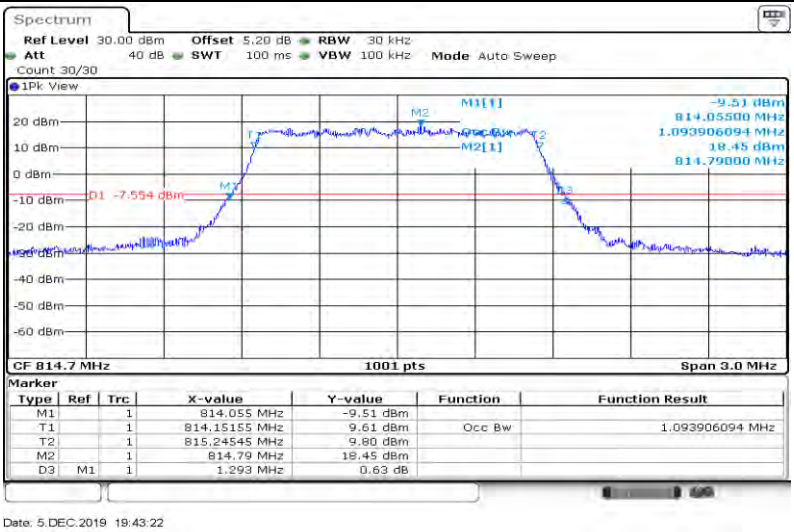
Test Plots

Band26-1.4MHz-QPSK-26697-6RB#0-1.094



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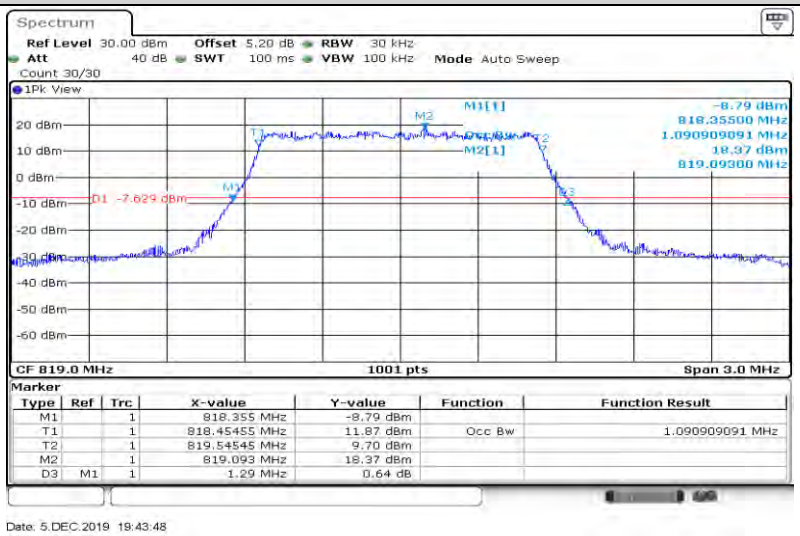

Band26-1.4MHz-QPSK-26783-6RB#0-1.094

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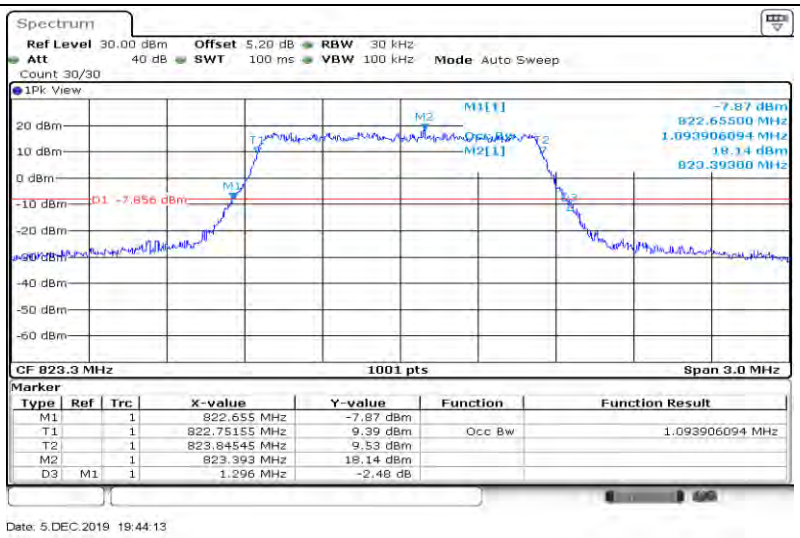
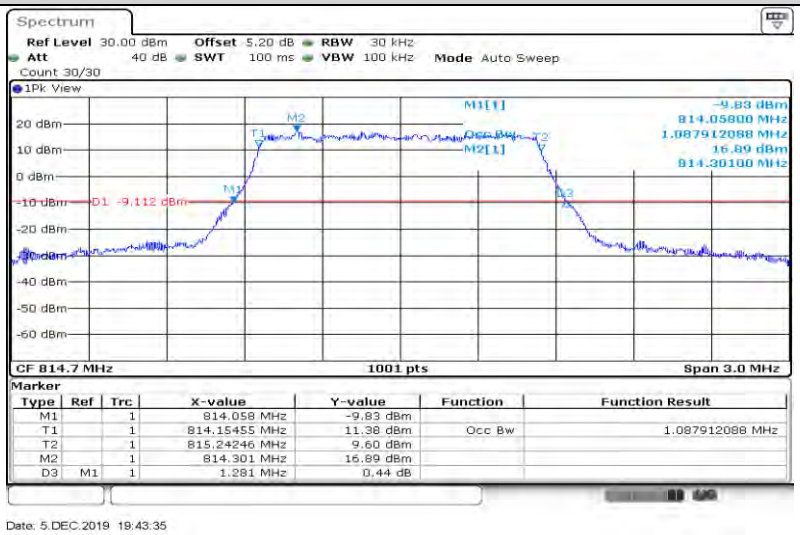


Band26-1.4MHz-16QAM-26697-6RB#0-1.088



Band26-1.4MHz-16QAM-26740-6RB#0-1.088

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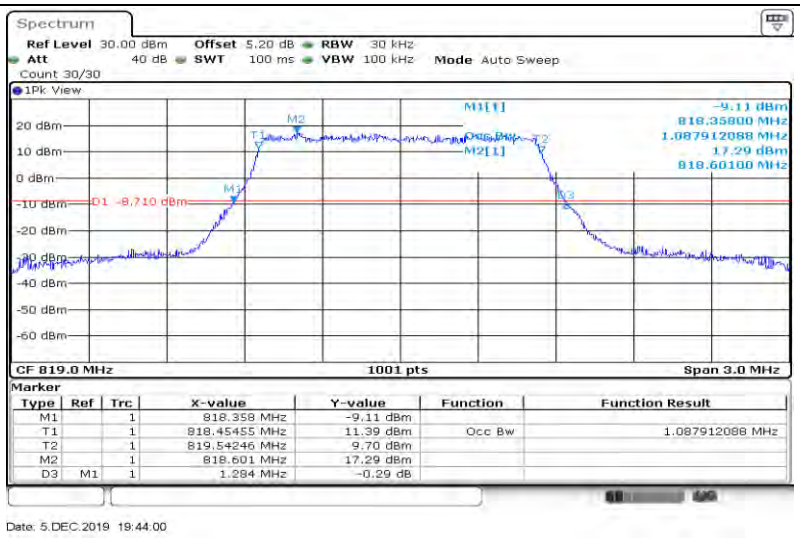

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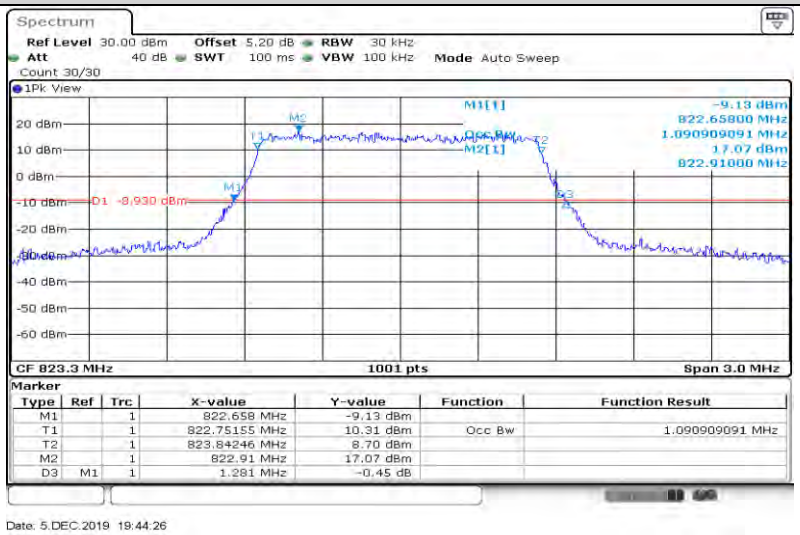

Band26-3MHz-QPSK-26705-15RB#0-2.697

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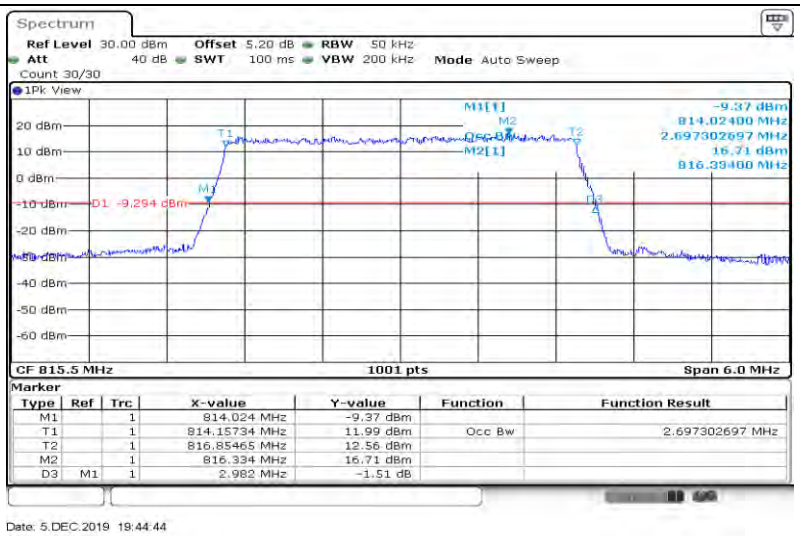
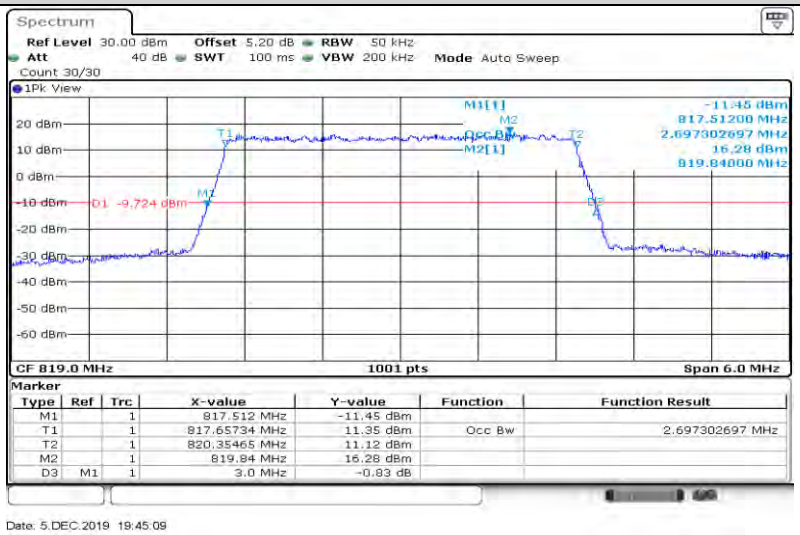


Band26-3MHz-QPSK-26740-15RB#0-2.697



Band26-3MHz-QPSK-26775-15RB#0-2.691

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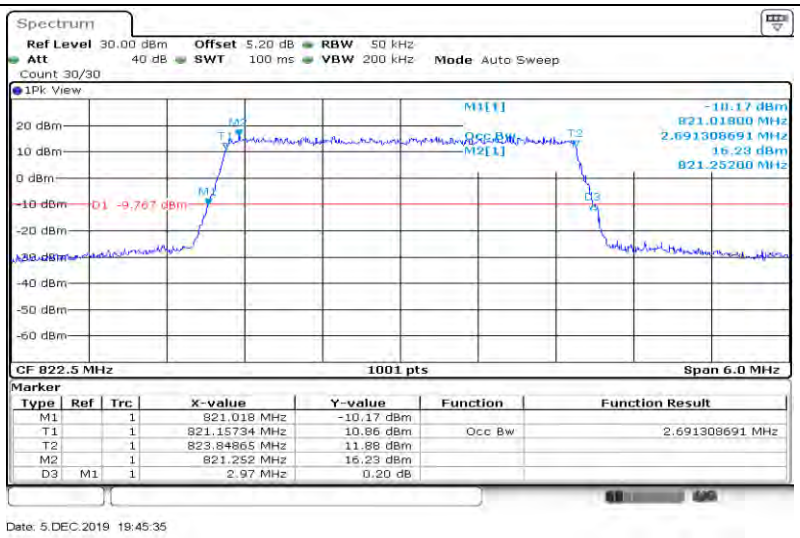
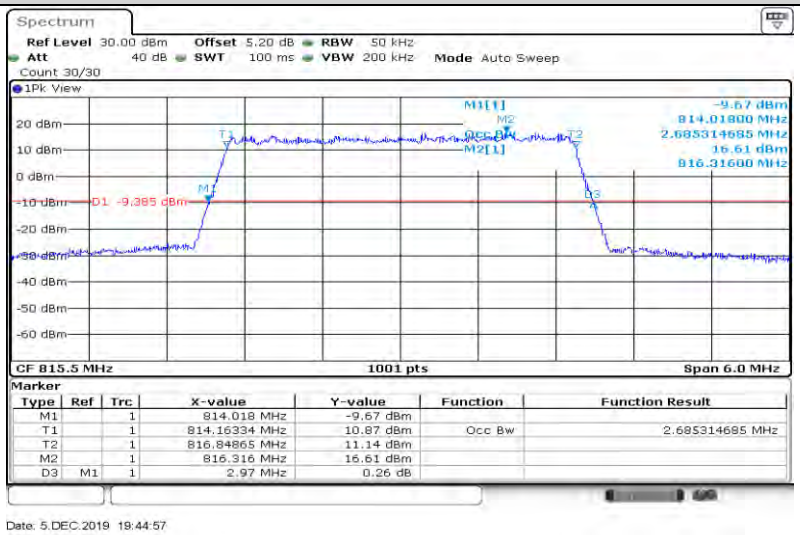


Band26-3MHz-16QAM-26705-15RB#0-2.685



Band26-3MHz-16QAM-26740-15RB#0-2.685

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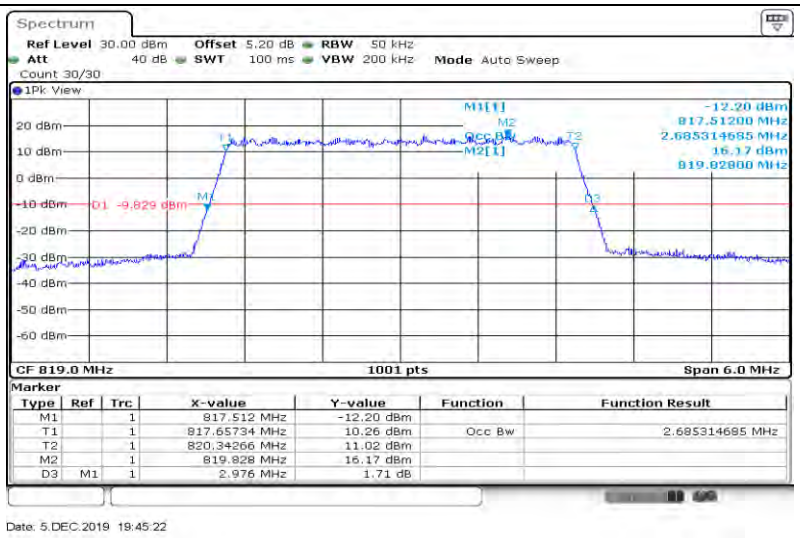

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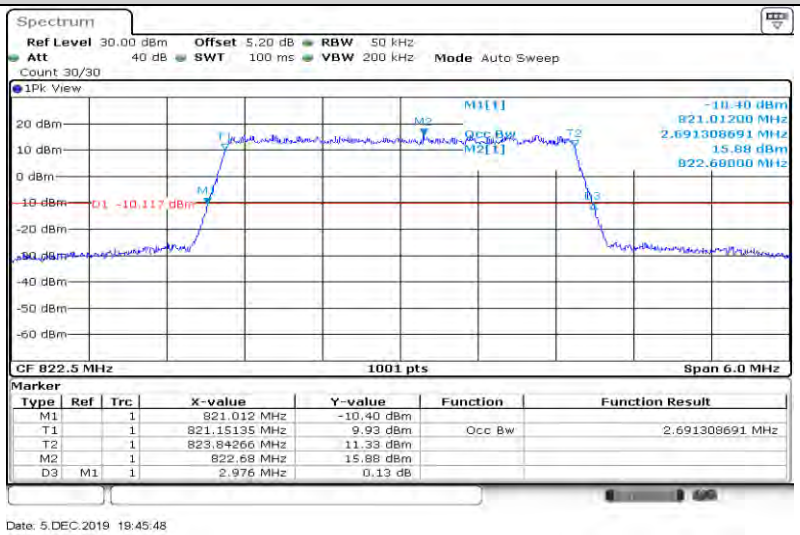

Band26-5MHz-QPSK-26715-25RB#0-4.466

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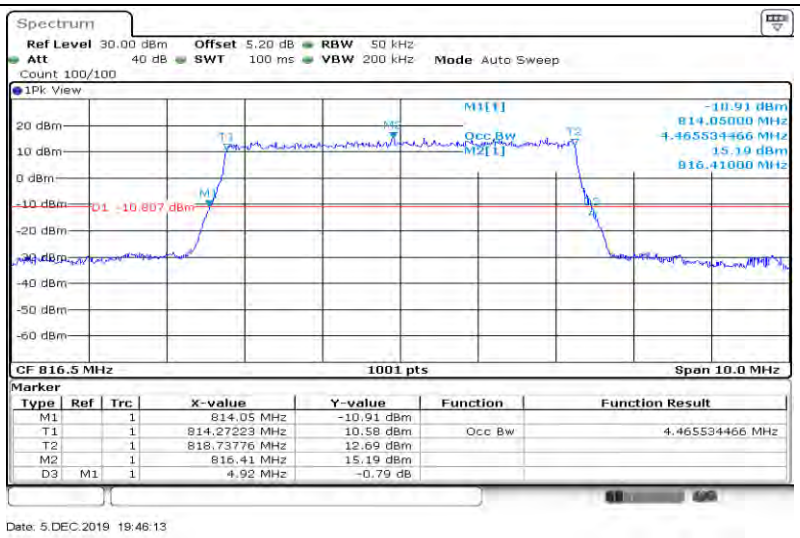

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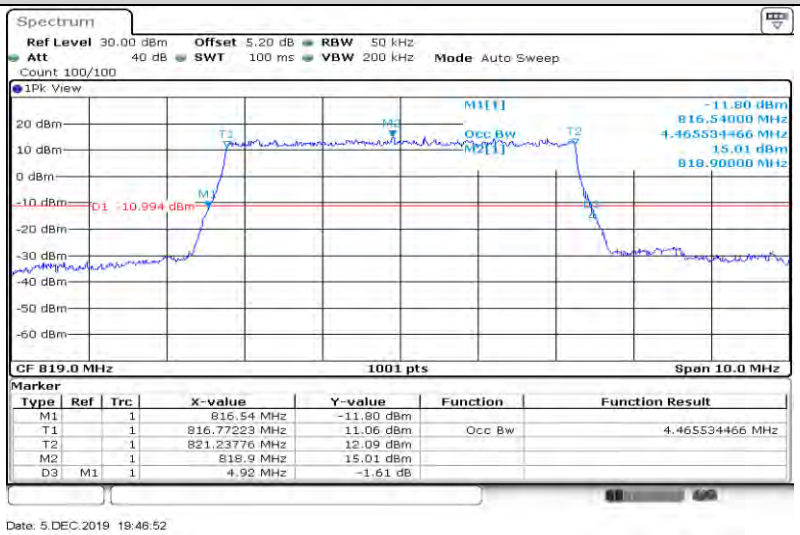

Band26-5MHz-QPSK-26765-25RB#0-4.476

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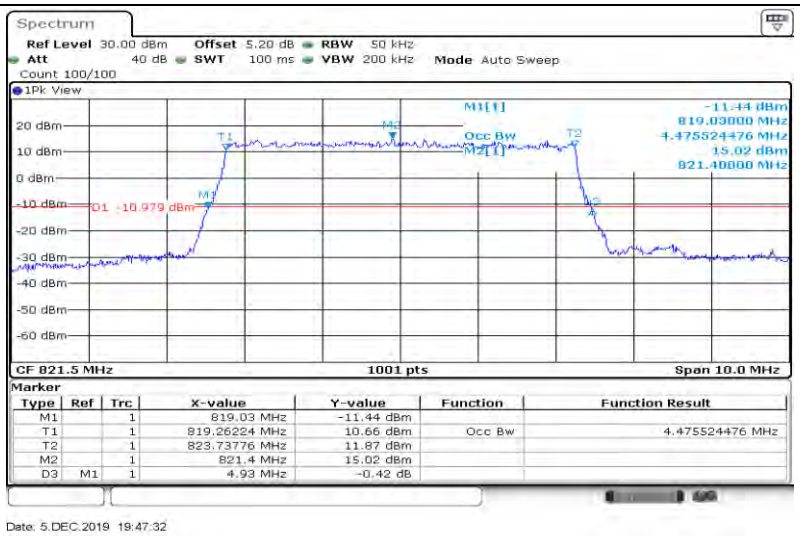
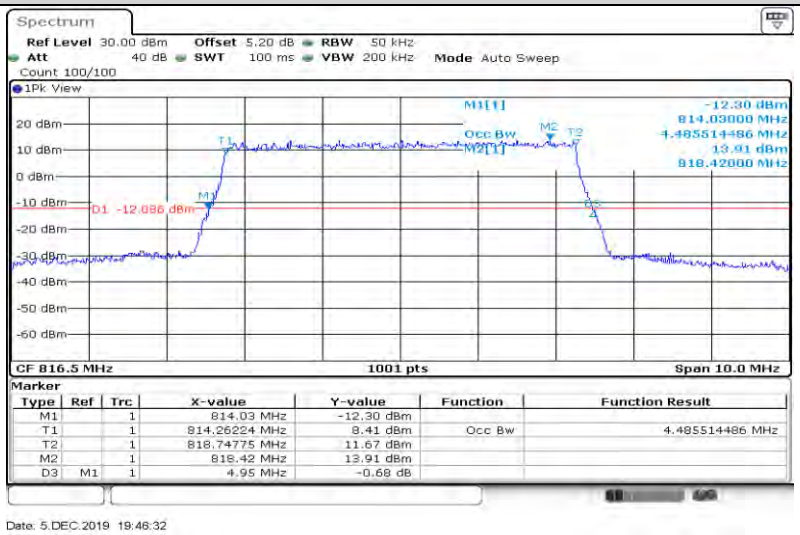


Band26-5MHz-16QAM-26715-25RB#0-4.486



Band26-5MHz-16QAM-26740-25RB#0-4.476

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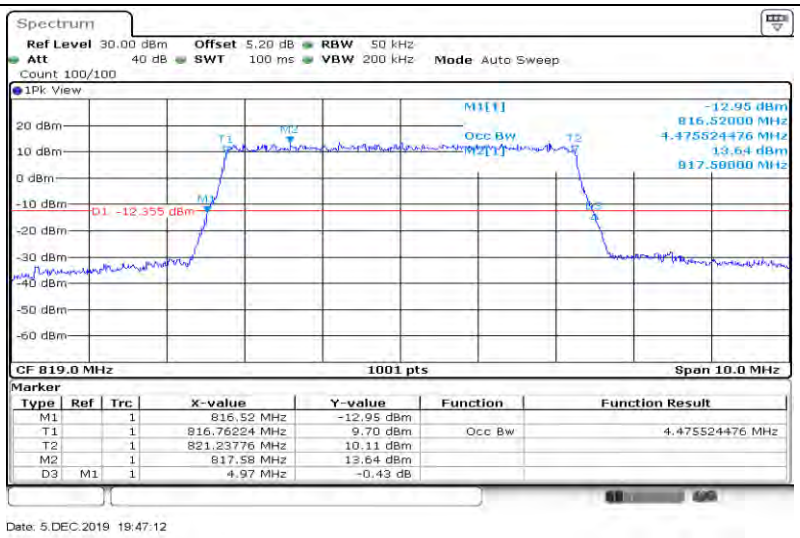

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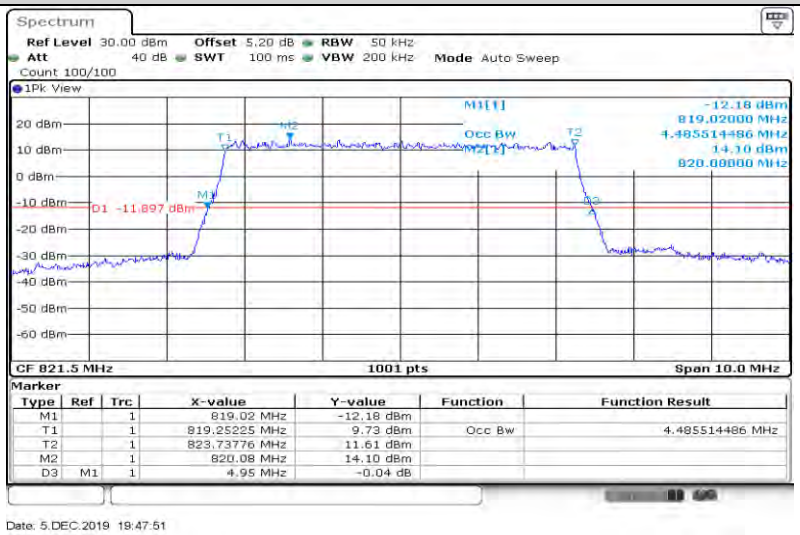

Band26-10MHz-QPSK-26740-50RB#0-8.891

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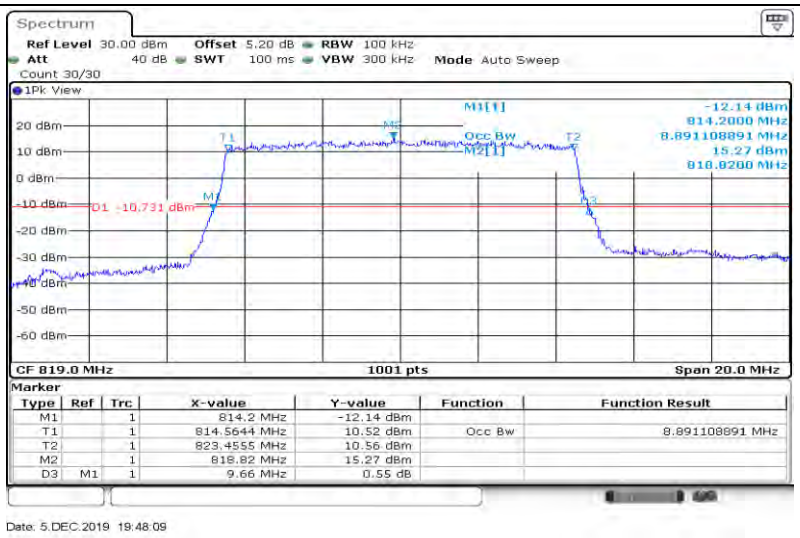

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Band26-10MHz-16QAM-26740-50RB#0-8.891

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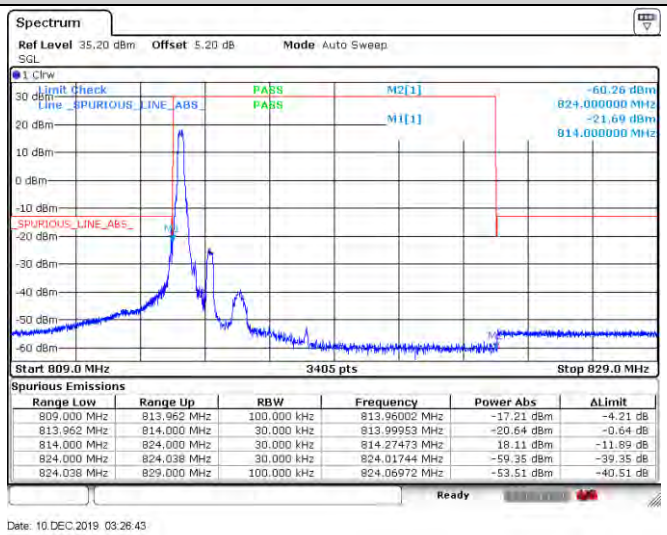
5. Band Edge Compliance

5.1. Test Plots

Band26-1.4MHz-QPSK-26697-1RB#0



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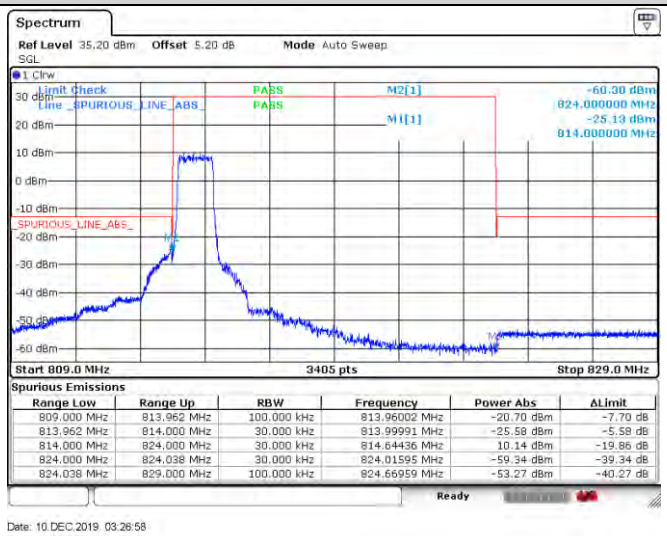

Band26-1.4MHz-QPSK-26783-1RB#5

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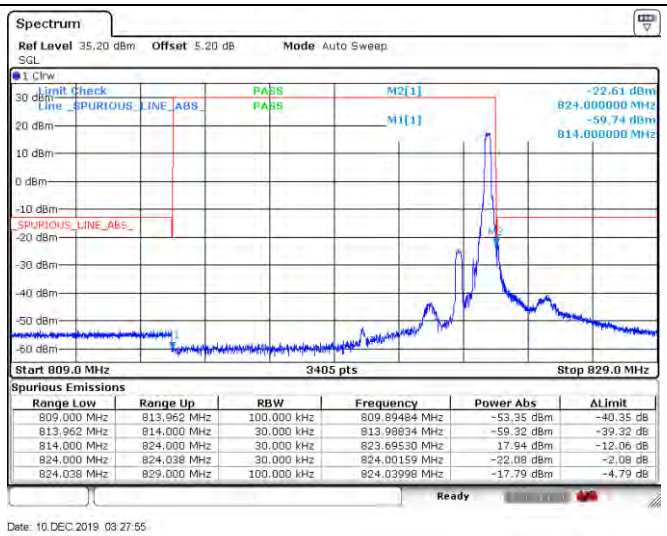

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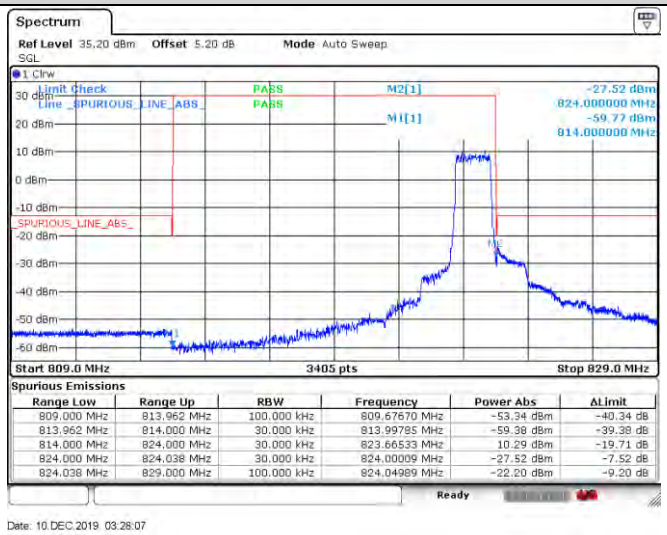

Band26-1.4MHz-16QAM-26697-1RB#0

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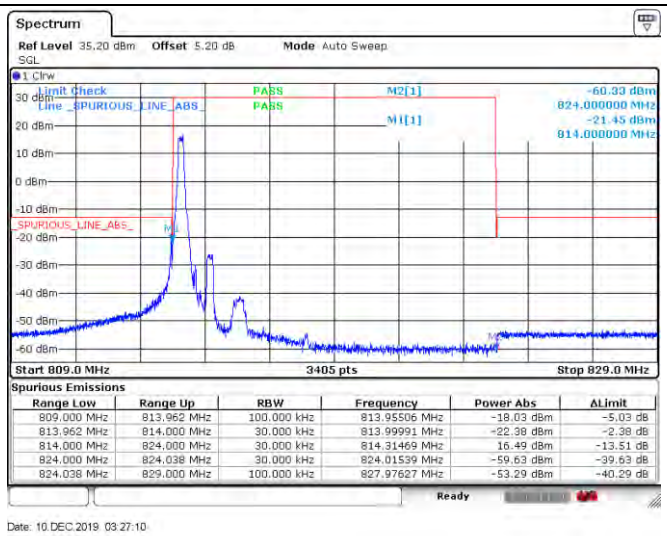

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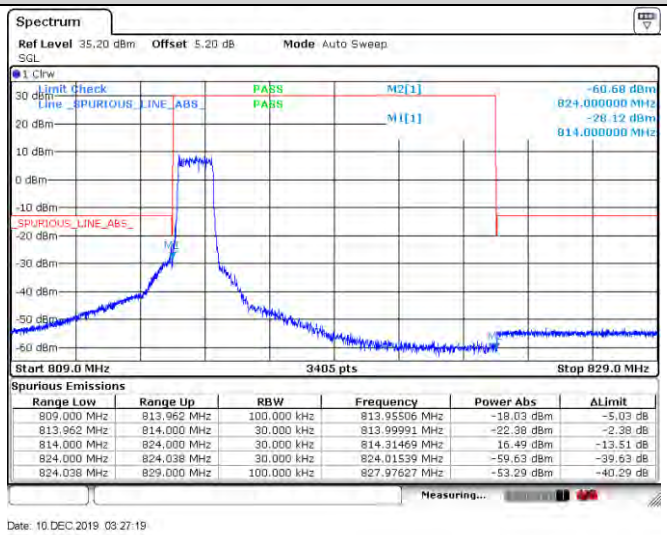

Band26-1.4MHz-16QAM-26783-1RB#5

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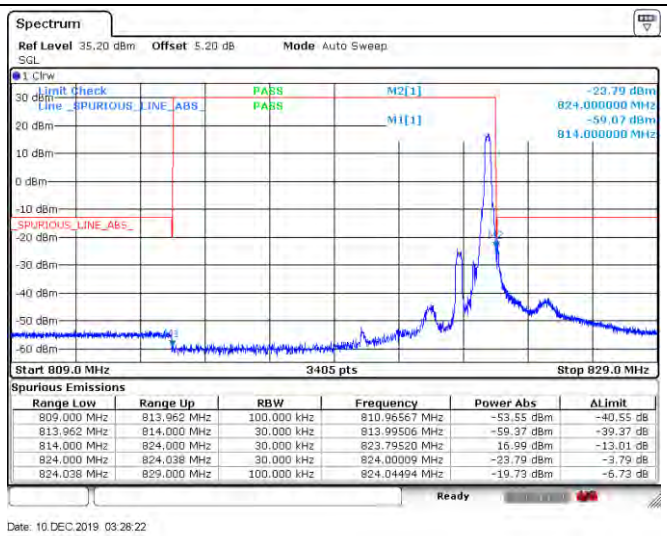

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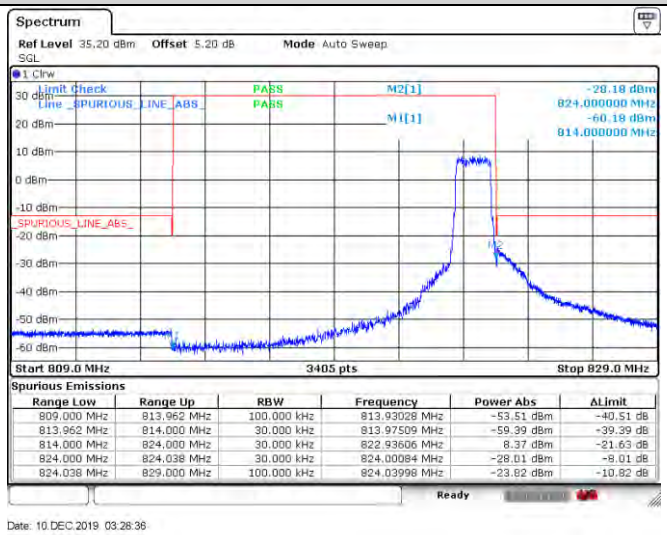

Band26-3MHz-QPSK-26705-1RB#0

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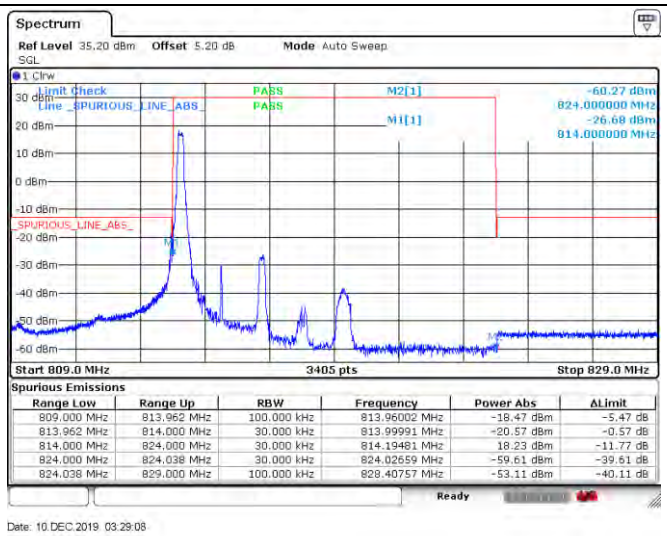

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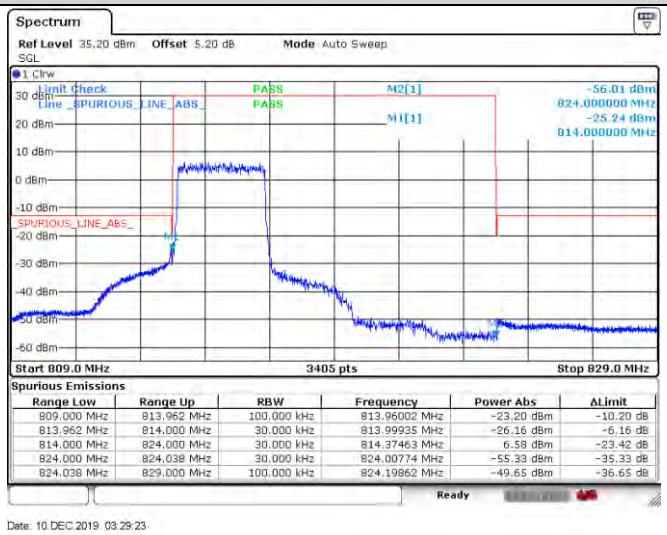

Band26-3MHz-QPSK-26775-1RB#14

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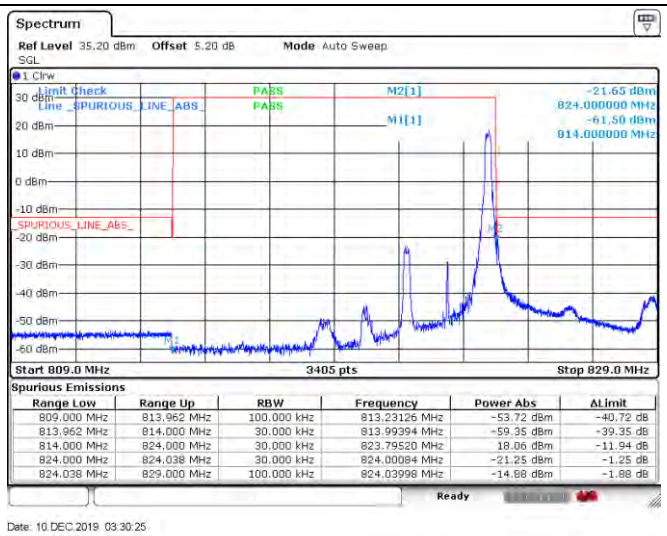

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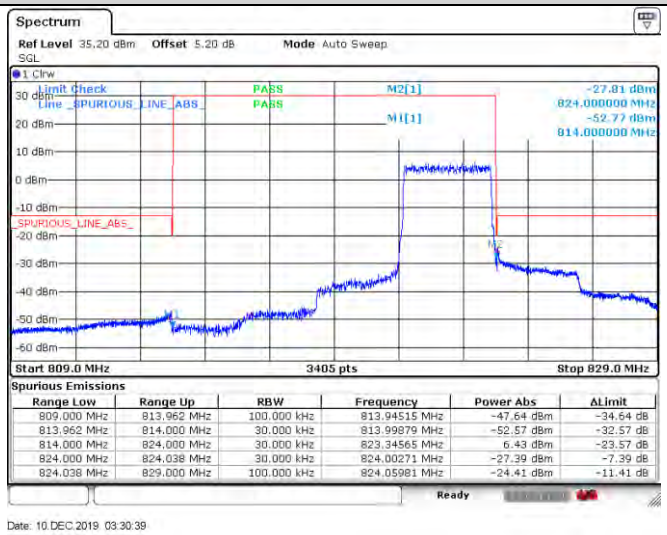

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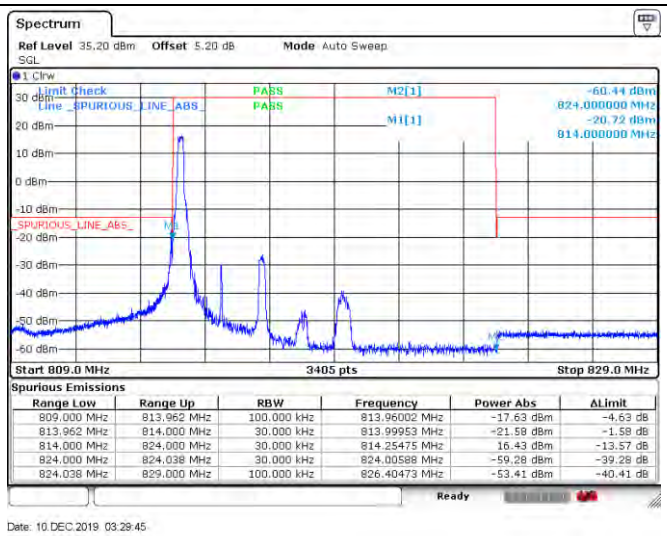

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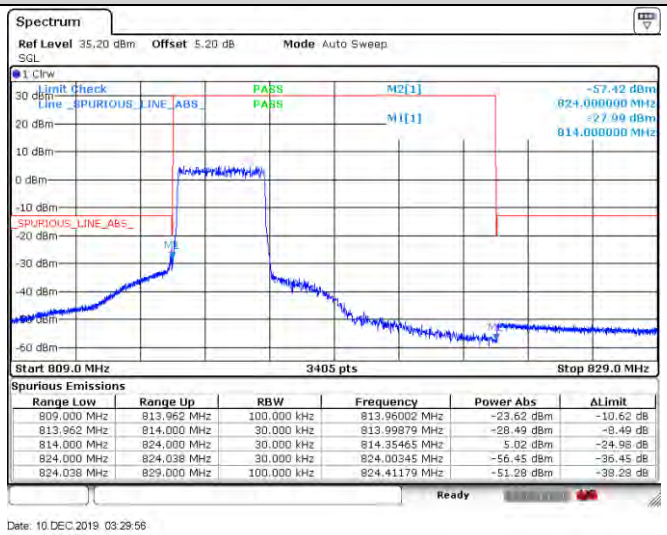

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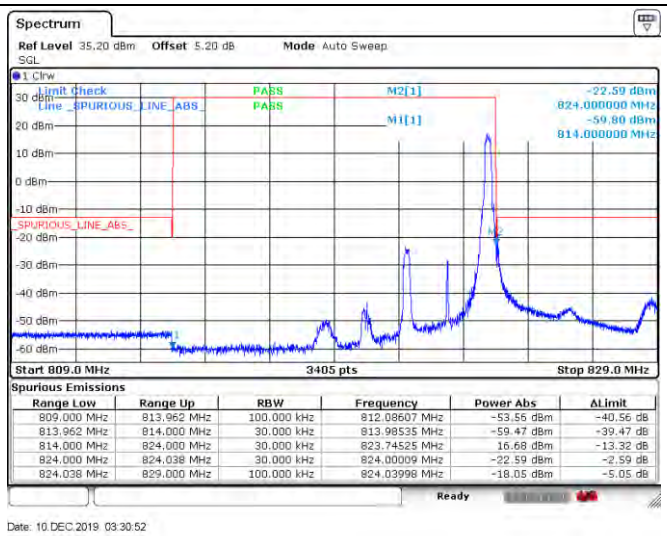

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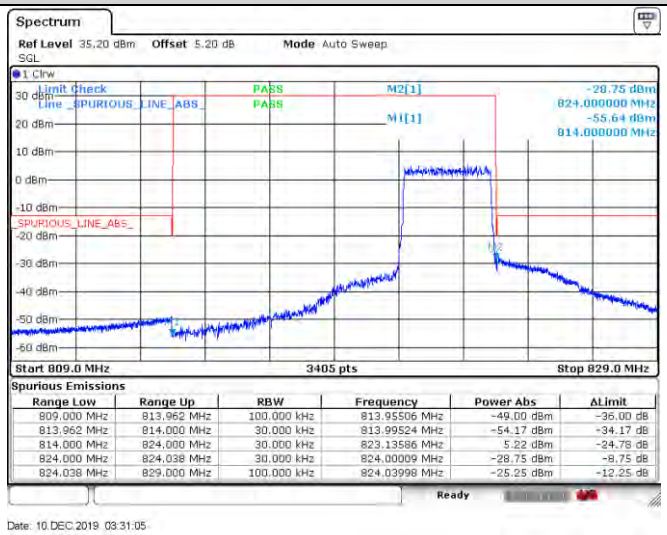

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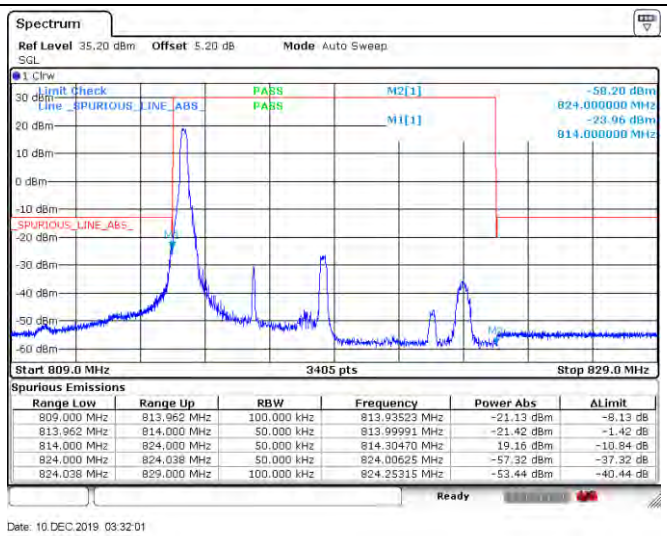

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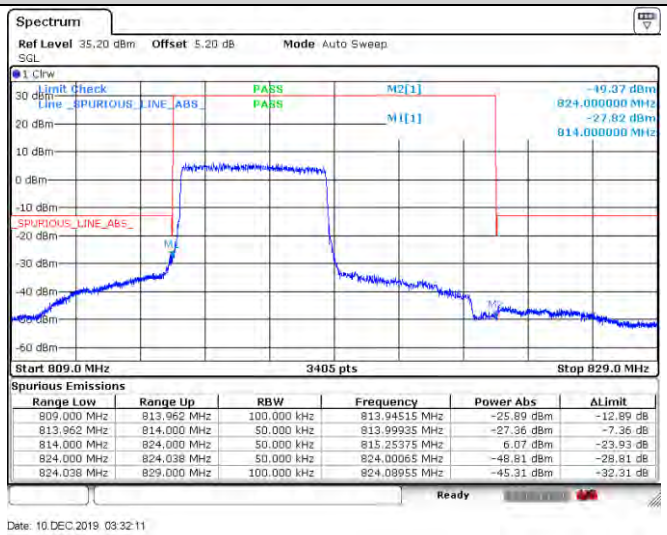

Band26-5MHz-QPSK-26765-1RB#24

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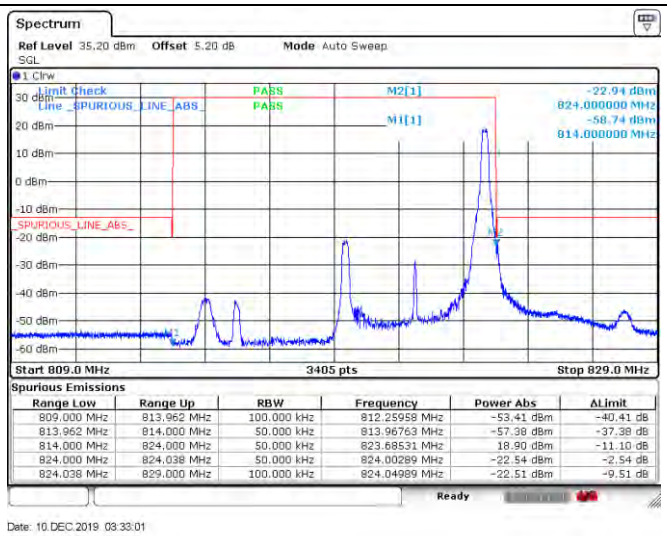
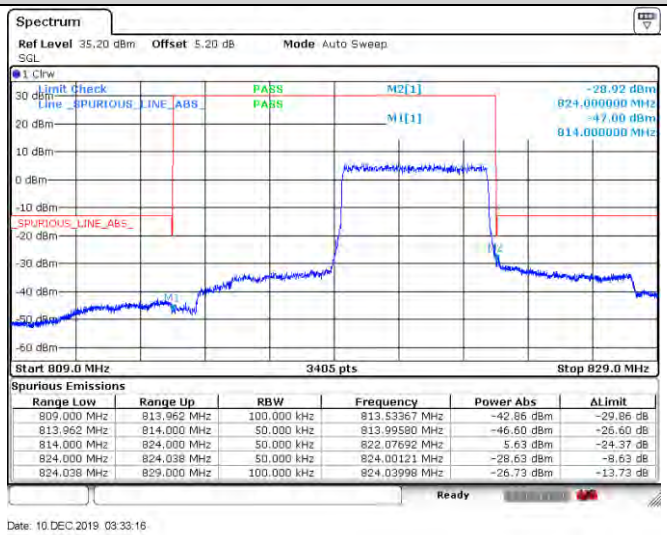


Band26-5MHz-QPSK-26765-25RB#0



Band26-5MHz-16QAM-26715-1RB#0

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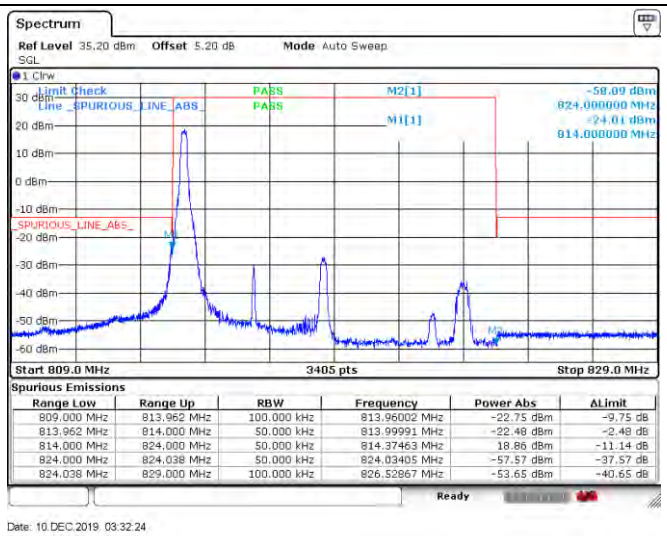
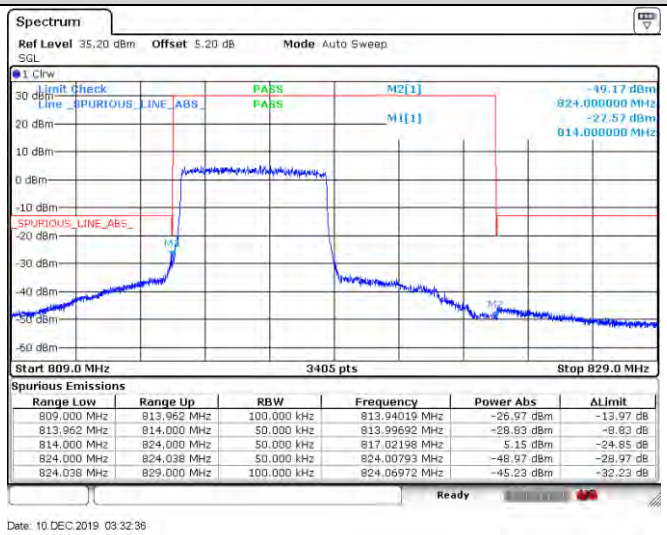


Band26-5MHz-16QAM-26715-25RB#0



Band26-5MHz-16QAM-26765-1RB#24

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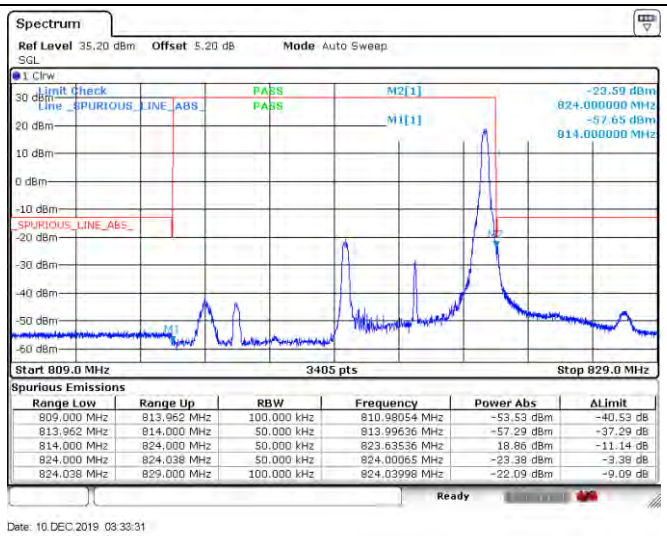
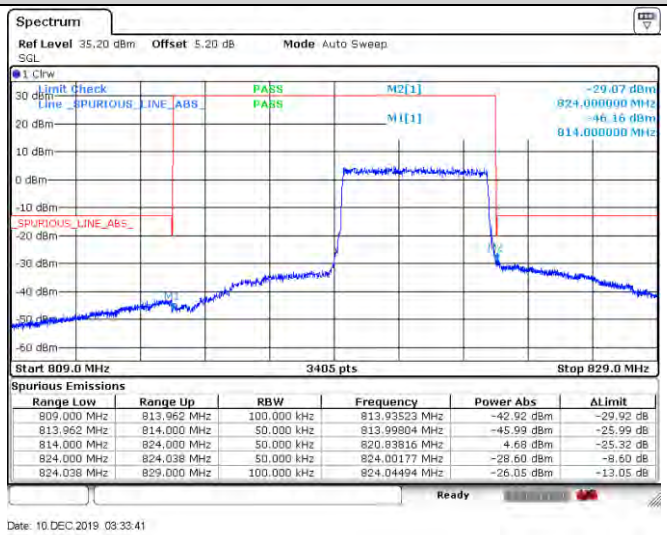


Band26-5MHz-16QAM-26765-25RB#0



Band26-10MHz-QPSK-26740_Left-1RB#0

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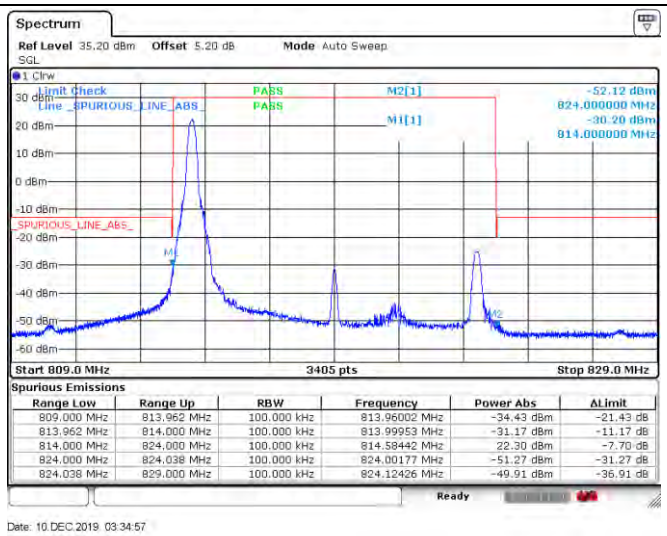
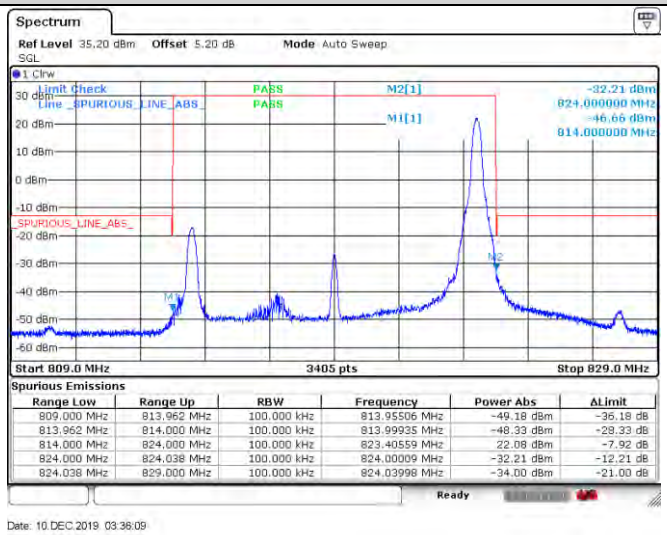


Band26-10MHz-QPSK-26740_Right-1RB#49



Band26-10MHz-QPSK-26740_Right-50RB#0

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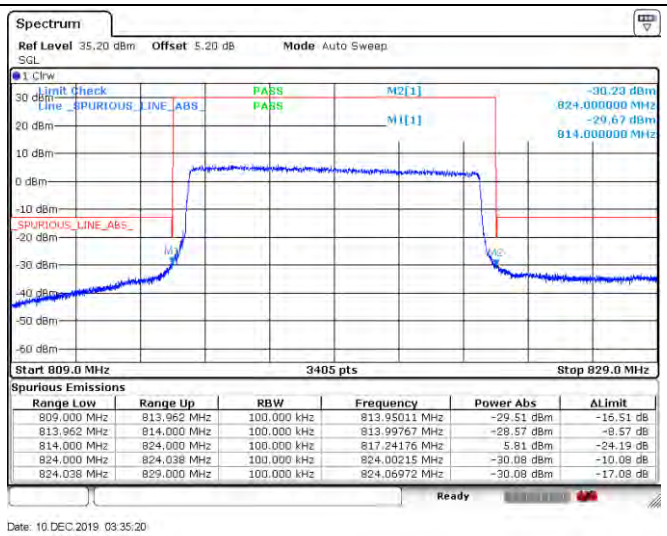
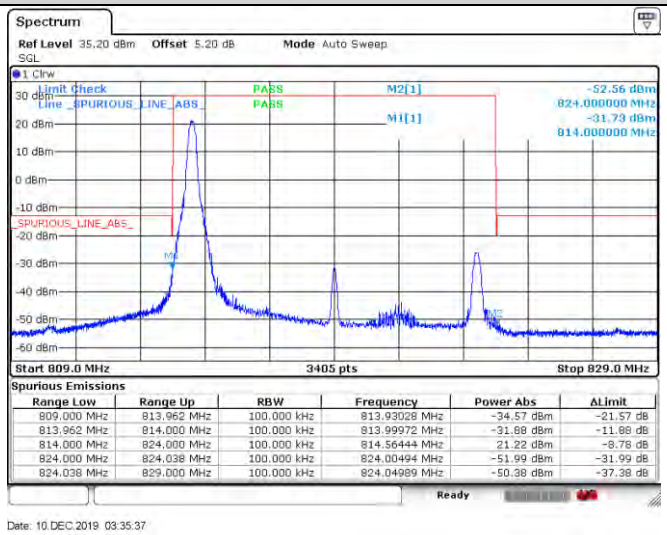


Band26-10MHz-16QAM-26740_Left-1RB#0



Band26-10MHz-16QAM-26740_Right-1RB#49

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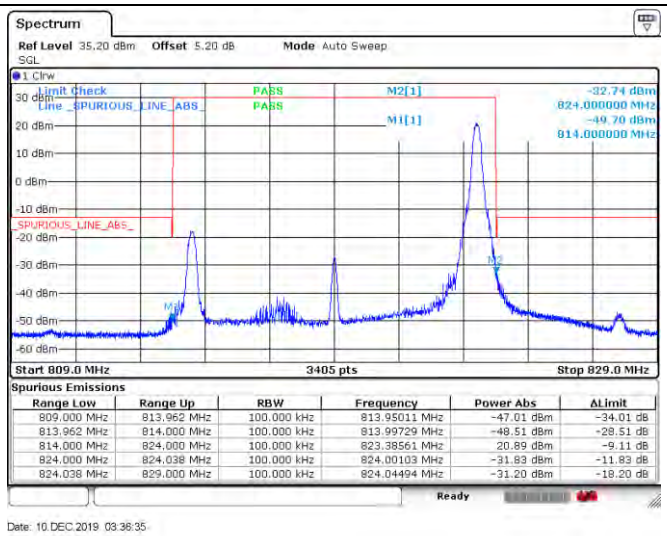
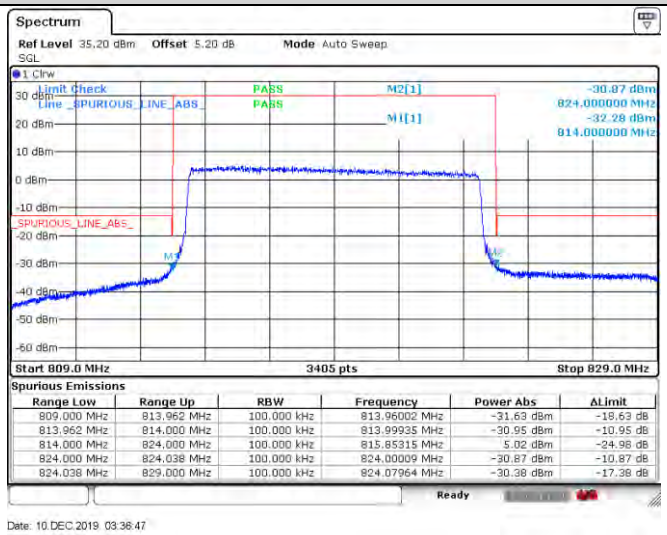


Band26-10MHz-16QAM-26740_Right-50RB#0



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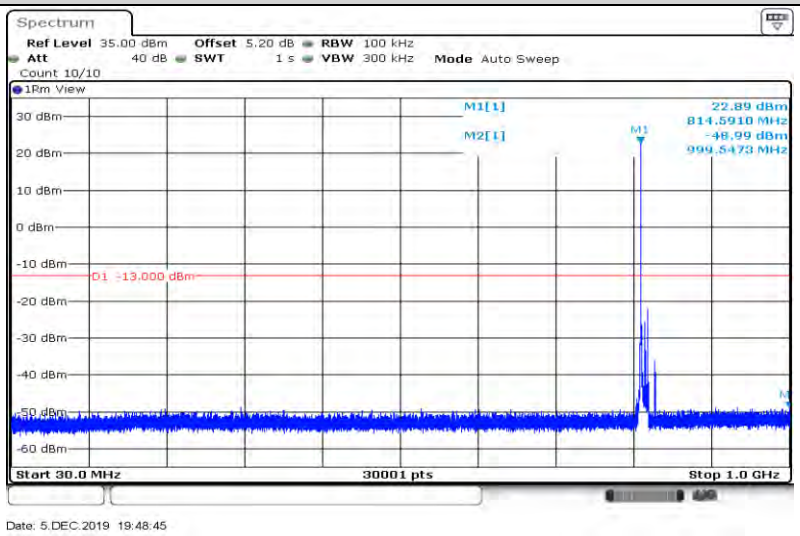
6. Spurious Emission at Antenna Terminal

Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of < RBW/2 so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = k * (Span / RBW)" with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

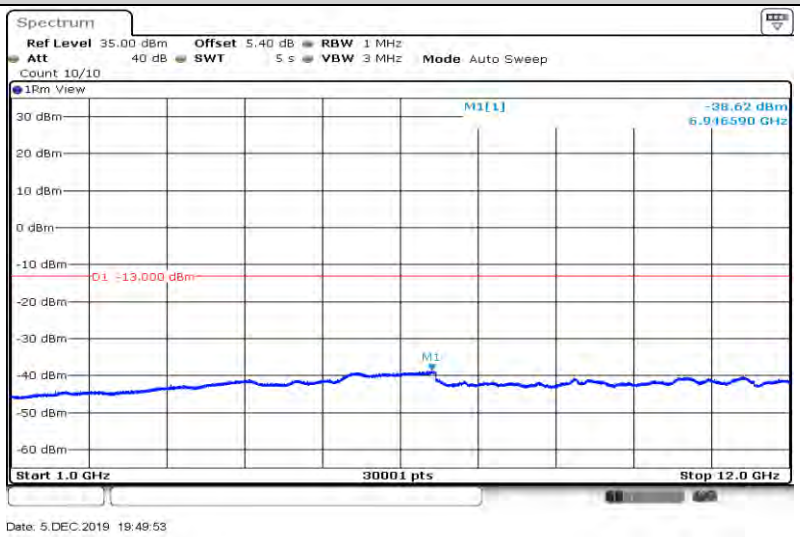
Remark2: only the worst case data displayed in this report.

6.1. Test Plots

Band26-10MHz-QPSK-26740-1RB#0-Range1:30~1000MHz



Band26-10MHz-QPSK-26740-1RB#0-Range2:1000~12000MHz



Band26-10MHz-16QAM-26740-1RB#0-Range1:30~1000MHz

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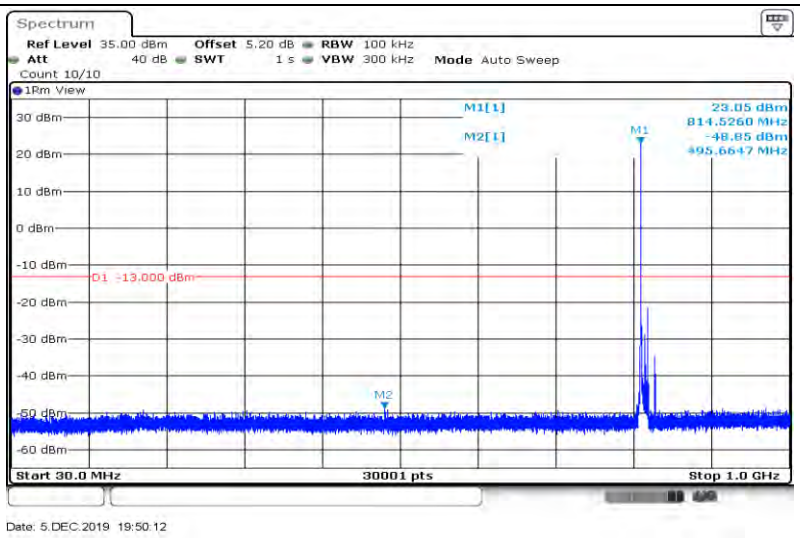
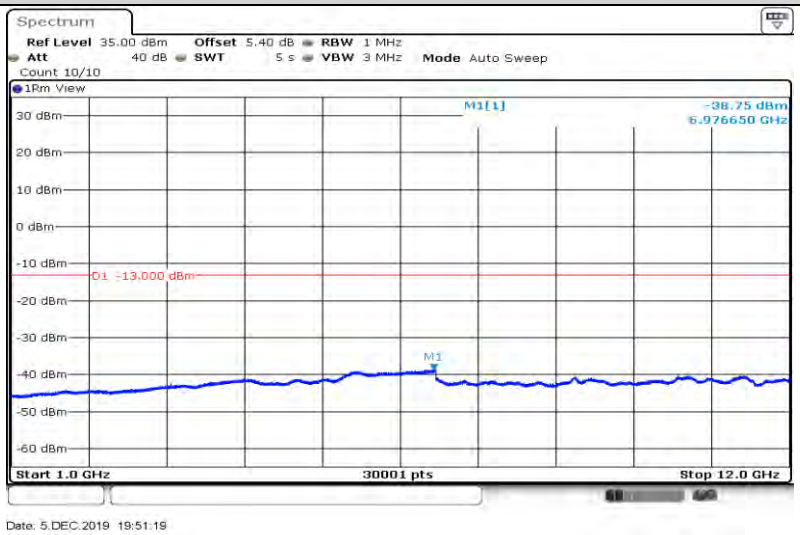


Band26-10MHz-16QAM-26740-1RB#0-Range2:1000~12000MHz



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7. Field Strength of Spurious Radiation

7.1. Test Mode =LTE/TM1

7.1.1. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
109.76418	-62.88	-13.00	49.88	Vertical
1669.9057	-60.47	-13.00	47.47	Vertical
2436.48	-52.11	-13.00	39.11	Vertical
3339.8011	-52.99	-13.00	39.99	Vertical
4174.1392	-56.14	-13.00	43.14	Vertical
8348.3473	-49.12	-13.00	36.12	Vertical
43.534078	-63.97	-13.00	50.97	Horizontal
1670.23	-57.84	-13.00	44.84	Horizontal
2504.7992	-43.77	-13.00	30.77	Horizontal
3339.4025	-47.63	-13.00	34.63	Horizontal
4174.5553	-57.23	-13.00	44.23	Horizontal
8845.4206	-51.67	-13.00	38.67	Horizontal

Remark:

1 According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.

2 The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data displayed in this report.

3 all modulation and all Bandwidth had been tested, but only the worst case data displayed in this report.

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8. Frequency Stability

8.1. Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band26	10MHz	QPSK	26740	50RB#0	VL	NT	-1.20	-0.001465	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	VN	NT	-1.80	-0.002198	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	VH	NT	-1.90	-0.002320	±2.5	PASS
Band26	10MHz	16QAM	26740	50RB#0	VL	NT	-1.10	-0.001343	±2.5	PASS
Band26	10MHz	16QAM	26740	50RB#0	VN	NT	-2.20	-0.002686	±2.5	PASS
Band26	10MHz	16QAM	26740	50RB#0	VH	NT	-0.10	-0.000122	±2.5	PASS

8.2. Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band26	10MHz	QPSK	26740	50RB#0	NV	-30	-2.00	-0.002442	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	-20	-0.50	-0.000611	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	0	-0.90	-0.001099	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	10	-1.20	-0.001465	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	20	-0.80	-0.000977	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	30	-1.40	-0.001709	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	40	-1.00	-0.001221	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	50	-1.50	-0.001832	±2.5	PASS
Band26	10MHz	16QAM	26740	50RB#0	NV	-30	-1.50	-0.001832	±2.5	PASS
Band26	10MHz	16QAM	26740	50RB#0	NV	-20	-1.60	-0.001954	±2.5	PASS
Band26	10MHz	16QAM	26740	50RB#0	NV	0	-1.30	-0.001587	±2.5	PASS
Band26	10MHz	16QAM	26740	50RB#0	NV	10	-1.80	-0.002198	±2.5	PASS
Band26	10MHz	16QAM	26740	50RB#0	NV	20	-0.80	-0.000977	±2.5	PASS
Band26	10MHz	16QAM	26740	50RB#0	NV	30	-0.60	-0.000733	±2.5	PASS
Band26	10MHz	16QAM	26740	50RB#0	NV	40	-2.10	-0.002564	±2.5	PASS
Band26	10MHz	16QAM	26740	50RB#0	NV	50	-2.30	-0.002808	±2.5	PASS

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