



Appendix B

E-UTRA Band 14



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1 Effective (Isotropic) Radiated Power

1.1. Test Result

ANT1:

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band14	5MHz	QPSK	23305	1RB#12	24.97	26.47	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#24	24.76	26.26	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#0	24.50	26	34.77	PASS
Band14	5MHz	QPSK	23305	12RB#0	23.85	25.35	34.77	PASS
Band14	5MHz	QPSK	23305	12RB#6	23.88	25.38	34.77	PASS
Band14	5MHz	QPSK	23305	12RB#13	23.63	25.13	34.77	PASS
Band14	5MHz	QPSK	23305	25RB#0	23.75	25.25	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#0	24.77	26.27	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#12	24.78	26.28	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#24	24.81	26.31	34.77	PASS
Band14	5MHz	QPSK	23330	12RB#0	23.64	25.14	34.77	PASS
Band14	5MHz	QPSK	23330	12RB#6	23.88	25.38	34.77	PASS
Band14	5MHz	QPSK	23330	12RB#13	23.55	25.05	34.77	PASS
Band14	5MHz	QPSK	23330	25RB#0	23.72	25.22	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#24	24.76	26.26	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#0	24.70	26.2	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#12	24.69	26.19	34.77	PASS
Band14	5MHz	QPSK	23355	12RB#6	23.80	25.3	34.77	PASS
Band14	5MHz	QPSK	23355	12RB#0	23.91	25.41	34.77	PASS
Band14	5MHz	QPSK	23355	12RB#13	23.56	25.06	34.77	PASS
Band14	5MHz	QPSK	23355	25RB#0	23.66	25.16	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#12	23.81	25.31	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#0	23.27	24.77	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#24	23.41	24.91	34.77	PASS
Band14	5MHz	16QAM	23305	12RB#13	22.64	24.14	34.77	PASS
Band14	5MHz	16QAM	23305	12RB#6	22.76	24.26	34.77	PASS



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Band14	5MHz	16QAM	23305	12RB#0	22.81	24.31	34.77	PASS
Band14	5MHz	16QAM	23305	25RB#0	22.87	24.37	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#0	23.30	24.8	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#12	23.74	25.24	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#24	23.37	24.87	34.77	PASS
Band14	5MHz	16QAM	23330	12RB#0	22.70	24.2	34.77	PASS
Band14	5MHz	16QAM	23330	12RB#6	22.84	24.34	34.77	PASS
Band14	5MHz	16QAM	23330	12RB#13	22.60	24.1	34.77	PASS
Band14	5MHz	16QAM	23330	25RB#0	22.73	24.23	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#0	23.33	24.83	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#12	23.78	25.28	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#24	23.33	24.83	34.77	PASS
Band14	5MHz	16QAM	23355	12RB#13	22.73	24.23	34.77	PASS
Band14	5MHz	16QAM	23355	12RB#0	22.63	24.13	34.77	PASS
Band14	5MHz	16QAM	23355	12RB#6	22.65	24.15	34.77	PASS
Band14	5MHz	16QAM	23355	25RB#0	22.75	24.25	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#49	24.25	25.75	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#24	24.81	26.31	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#0	24.67	26.17	34.77	PASS
Band14	10MHz	QPSK	23330	25RB#0	25.29	26.79	34.77	PASS
Band14	10MHz	QPSK	23330	25RB#12	23.87	25.37	34.77	PASS
Band14	10MHz	QPSK	23330	25RB#25	23.57	25.07	34.77	PASS
Band14	10MHz	QPSK	23330	50RB#0	23.66	25.16	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#49	23.43	24.93	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#0	23.22	24.72	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#24	23.34	24.84	34.77	PASS
Band14	10MHz	16QAM	23330	25RB#0	22.96	24.46	34.77	PASS
Band14	10MHz	16QAM	23330	25RB#12	22.86	24.36	34.77	PASS
Band14	10MHz	16QAM	23330	25RB#25	22.64	24.14	34.77	PASS
Band14	10MHz	16QAM	23330	50RB#0	22.86	24.36	34.77	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 [dBi]

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



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The conducted Power is measured by Base Station Simulator



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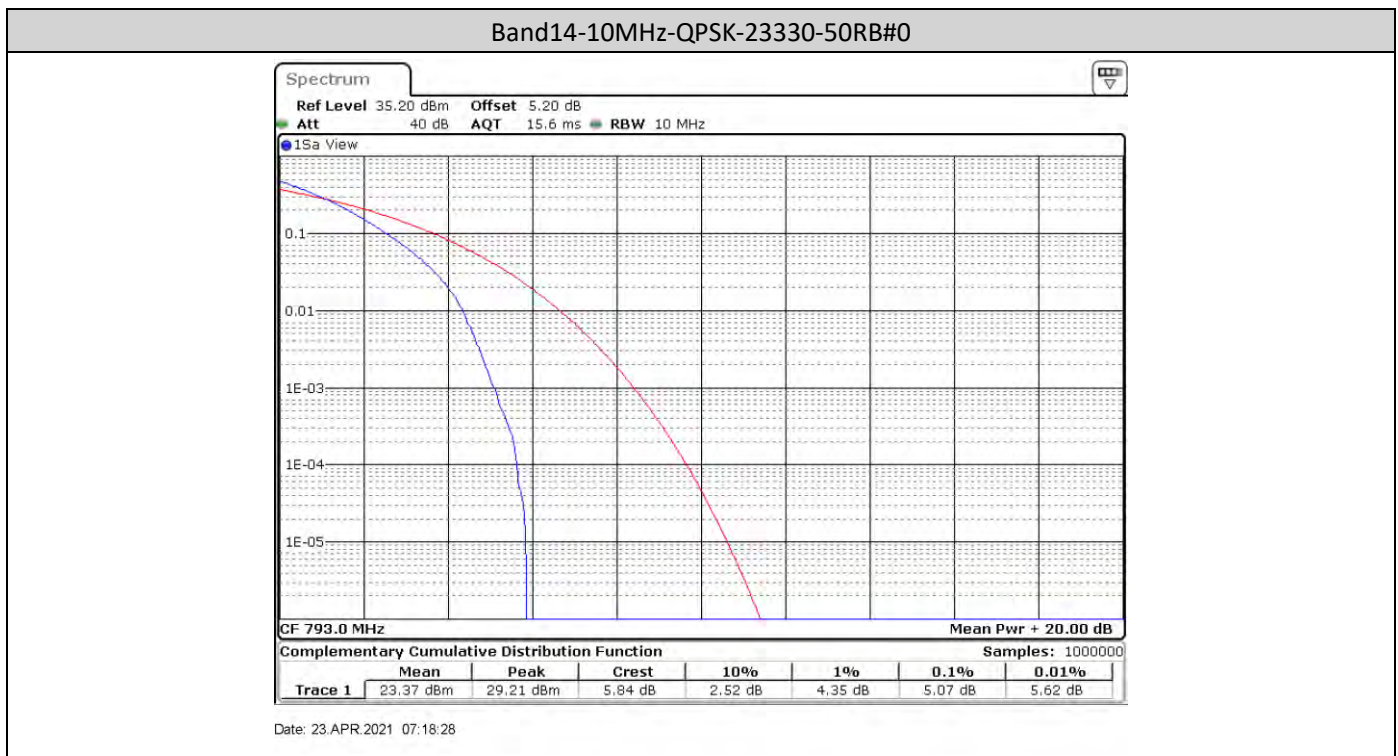


2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

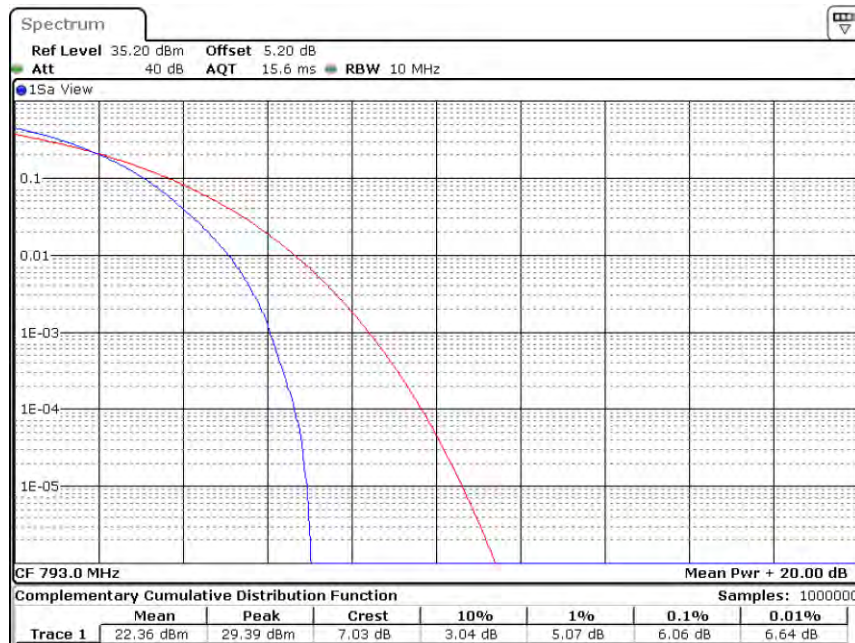
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band14	10MHz	QPSK	23330	50RB#0	5.07	13	PASS
Band14	10MHz	16QAM	23330	50RB#0	6.06	13	PASS

2.2. Test Plots





Band14-10MHz-16QAM-23330-50RB#0



Date: 23.APR.2021 07:18:40

Remark: all modulation and all Bandwidth had been tested, but only the worst configuration was displayed in this report.



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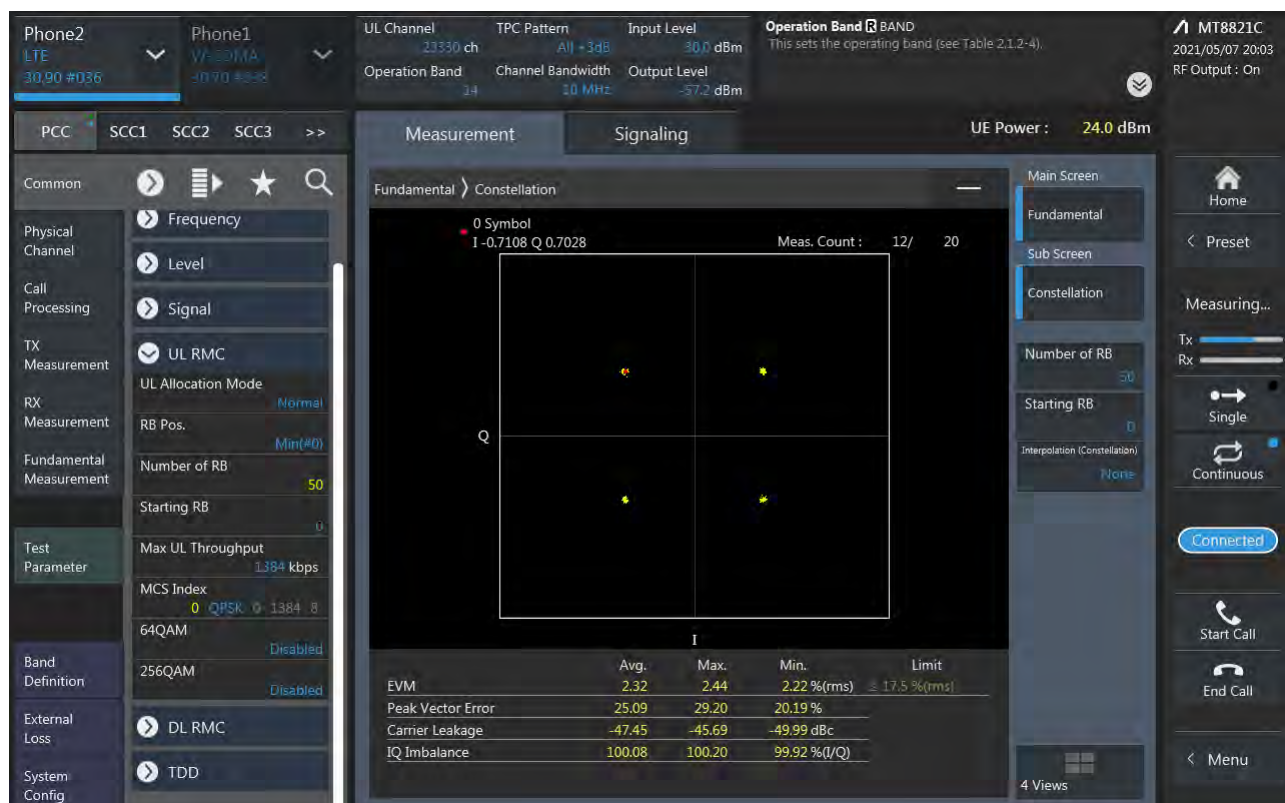
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3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 10MHz

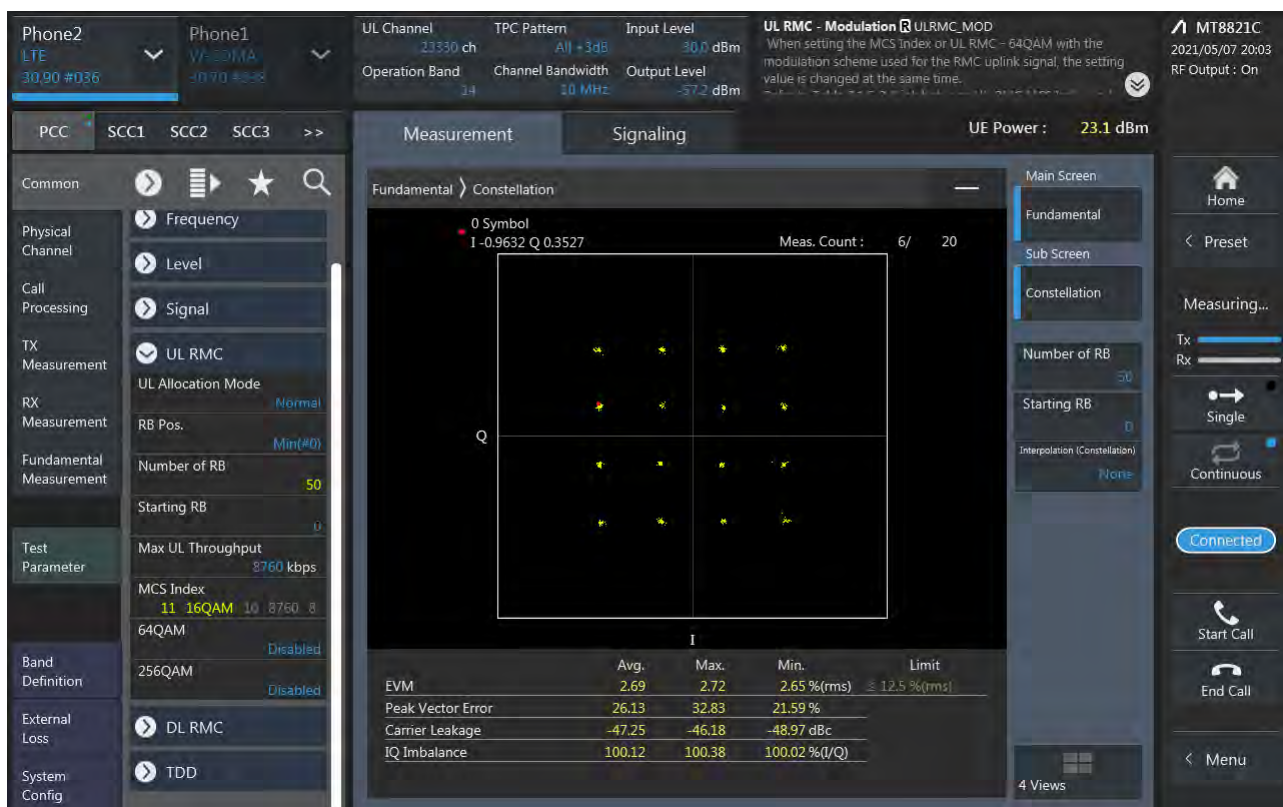
3.1.1. Test Channel = MCH





3.2. Test Mode = LTE /TM2 10MHz

3.2.1. Test Channel = MCH



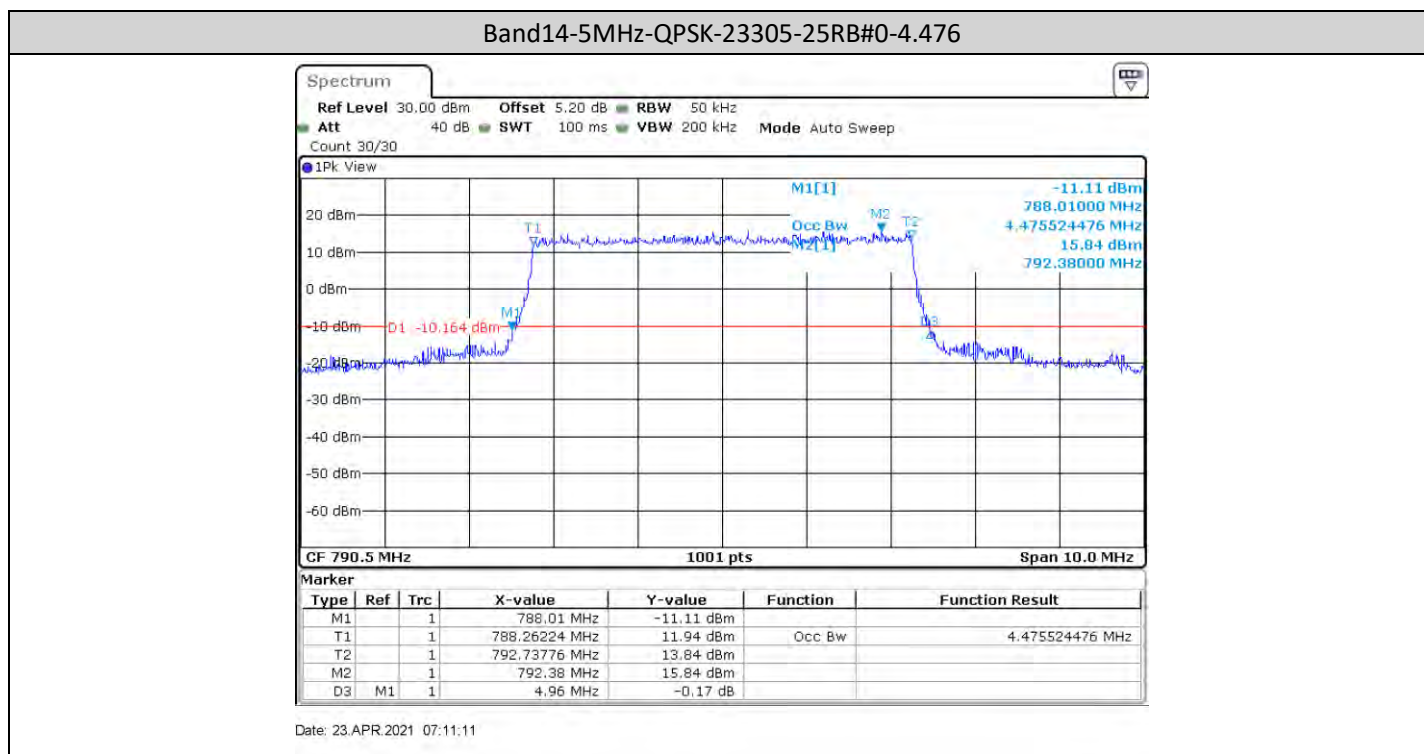


4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band14	5MHz	QPSK	23305	25RB#0	4.476	4.960	PASS
Band14	5MHz	QPSK	23330	25RB#0	4.466	4.930	PASS
Band14	5MHz	QPSK	23355	25RB#0	4.466	4.920	PASS
Band14	5MHz	16QAM	23305	25RB#0	4.486	4.930	PASS
Band14	5MHz	16QAM	23330	25RB#0	4.476	4.950	PASS
Band14	5MHz	16QAM	23355	25RB#0	4.466	4.900	PASS
Band14	10MHz	QPSK	23330	50RB#0	8.891	9.660	PASS
Band14	10MHz	16QAM	23330	50RB#0	8.891	9.680	PASS

4.2. Test Plots

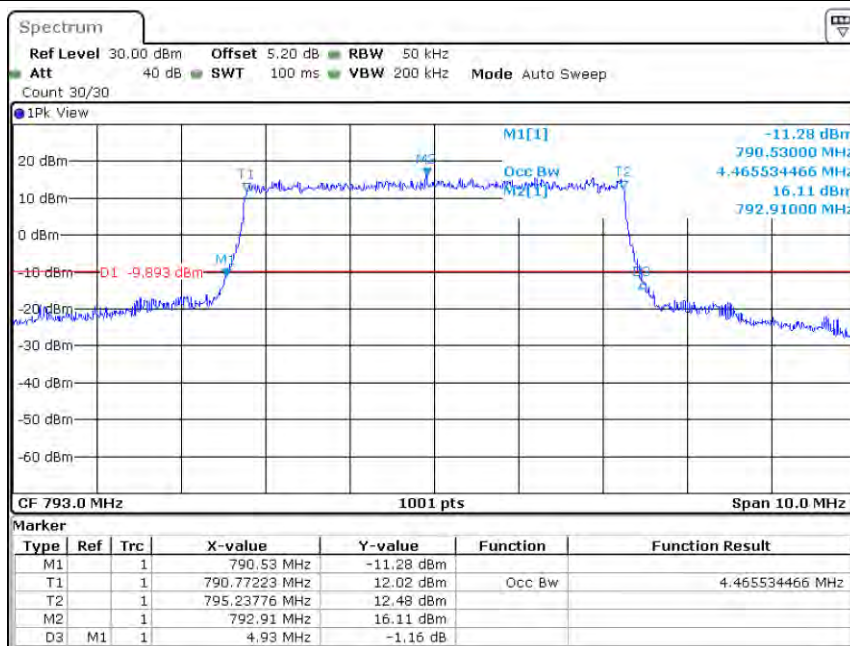


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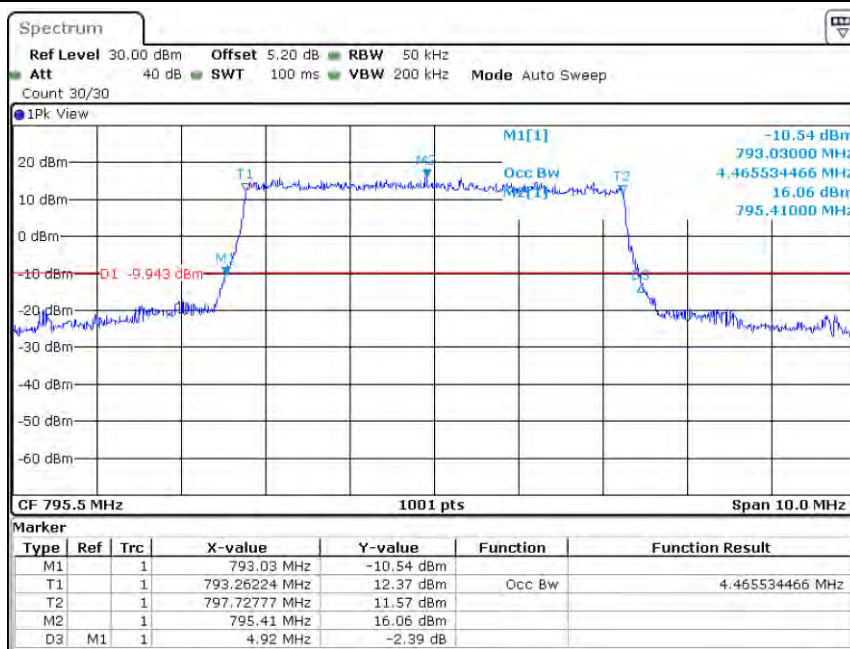


Band14-5MHz-QPSK-23330-25RB#0-4.466



Date: 23.APR 2021 07:11:39

Band14-5MHz-QPSK-23355-25RB#0-4.466



Date: 23.APR 2021 07:12:05

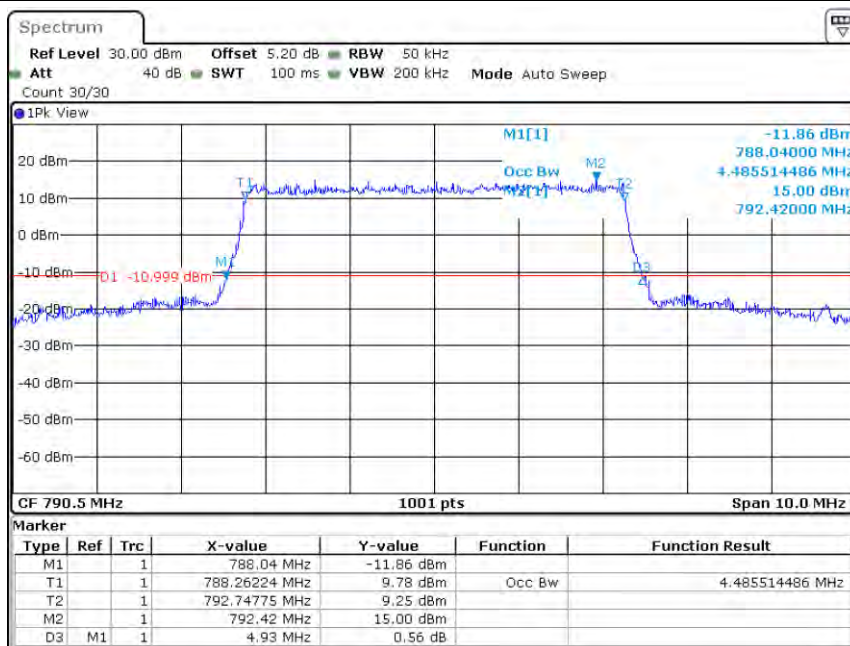


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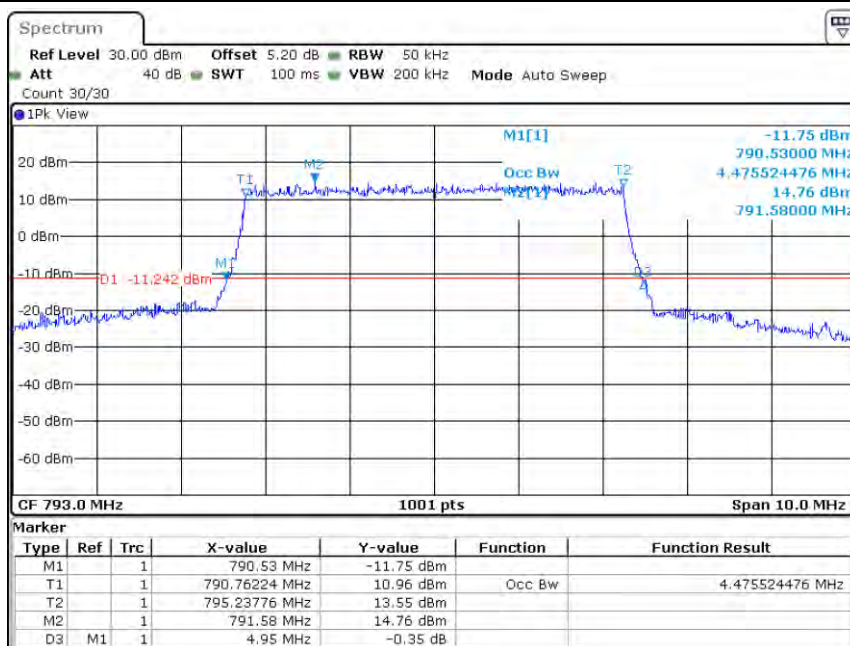


Band14-5MHz-16QAM-23305-25RB#0-4.486



Date: 23.APR 2021 07:11:24

Band14-5MHz-16QAM-23330-25RB#0-4.476



Date: 23.APR 2021 07:11:52

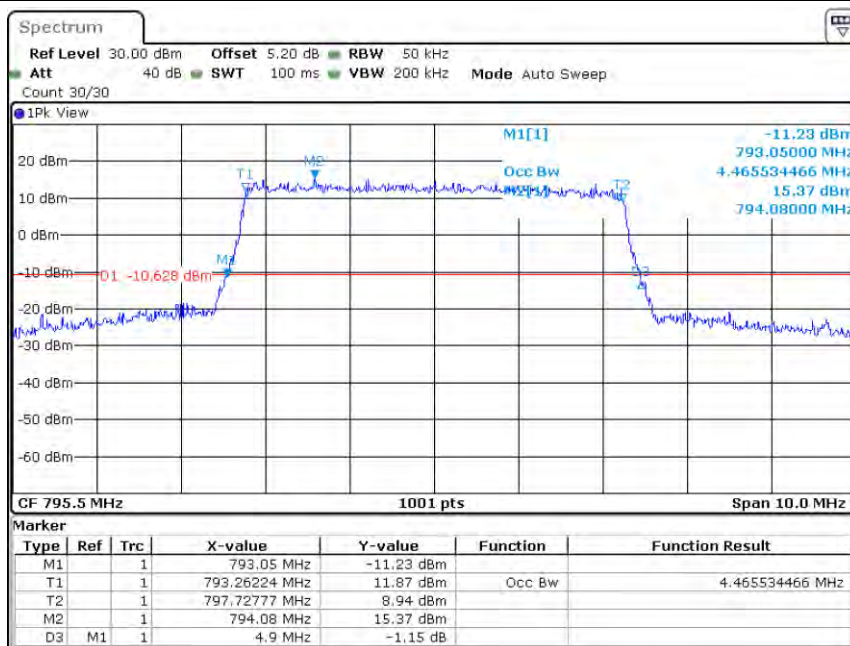


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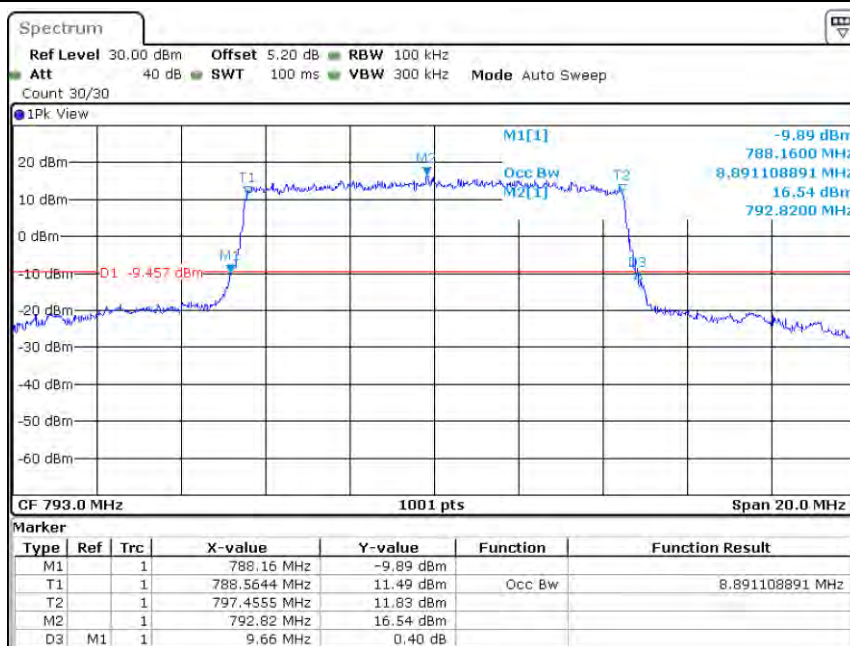


Band14-5MHz-16QAM-23355-25RB#0-4.466



Date: 23.APR 2021 07:12:18

Band14-10MHz-QPSK-23330-50RB#0-8.891



Date: 23.APR 2021 07:12:36

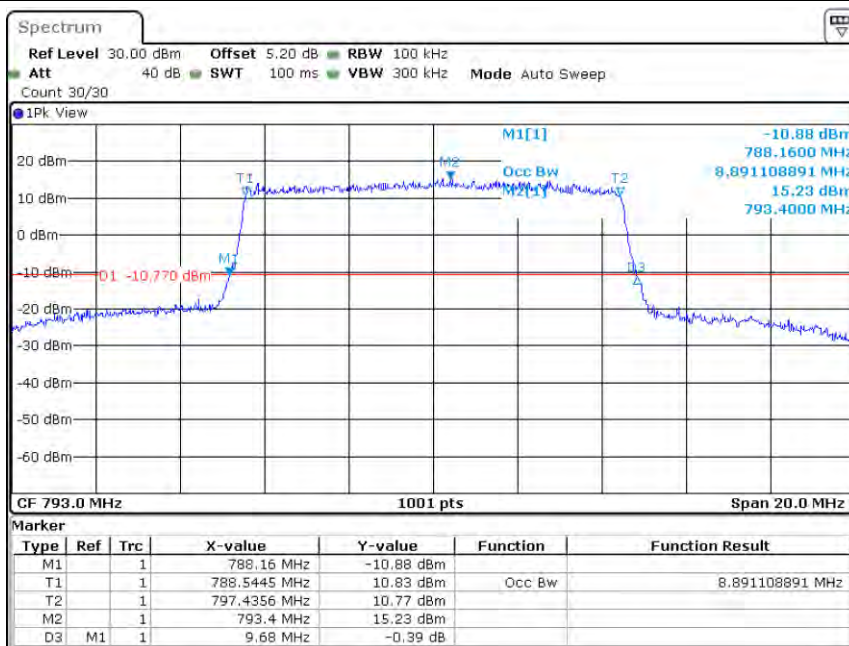


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Band14-10MHz-16QAM-23330-50RB#0-8.891



Date: 23.APR 2021 07:12:49



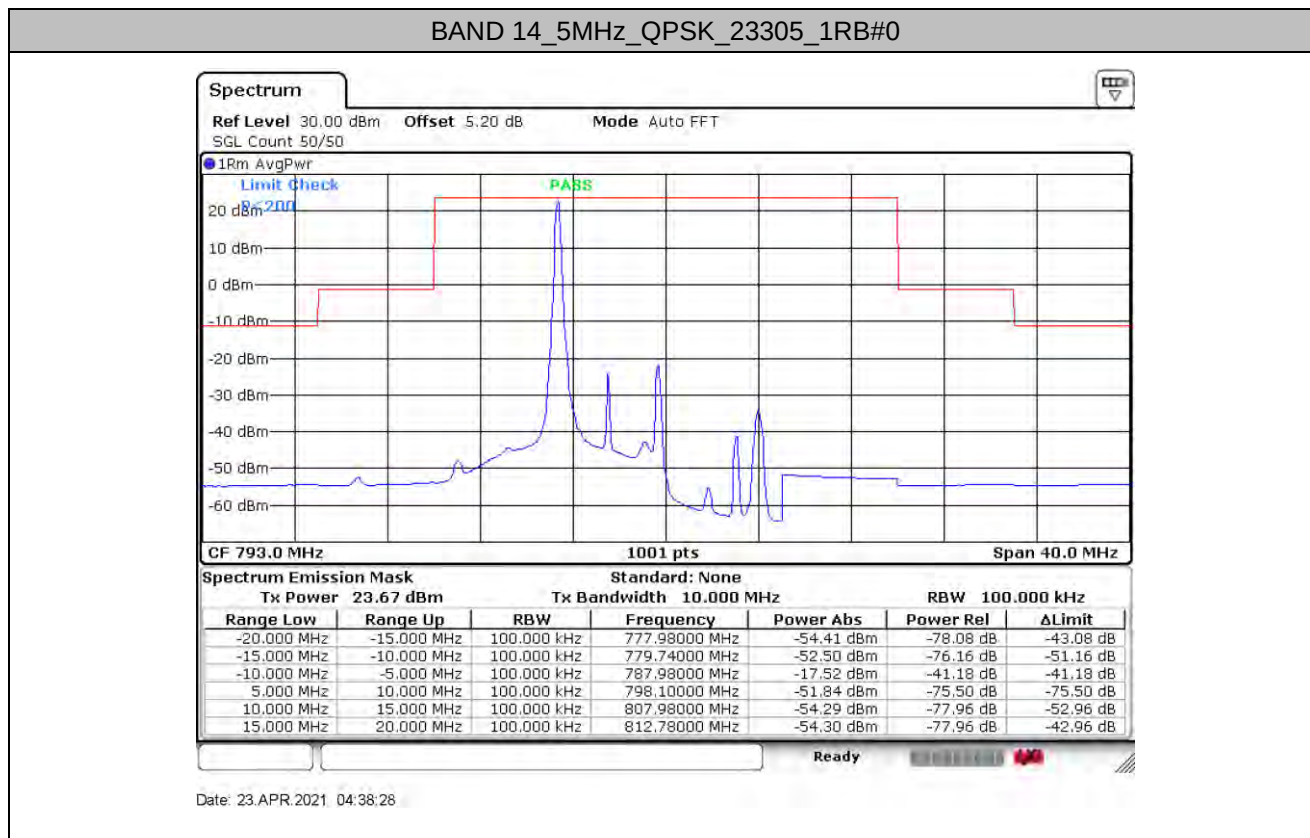
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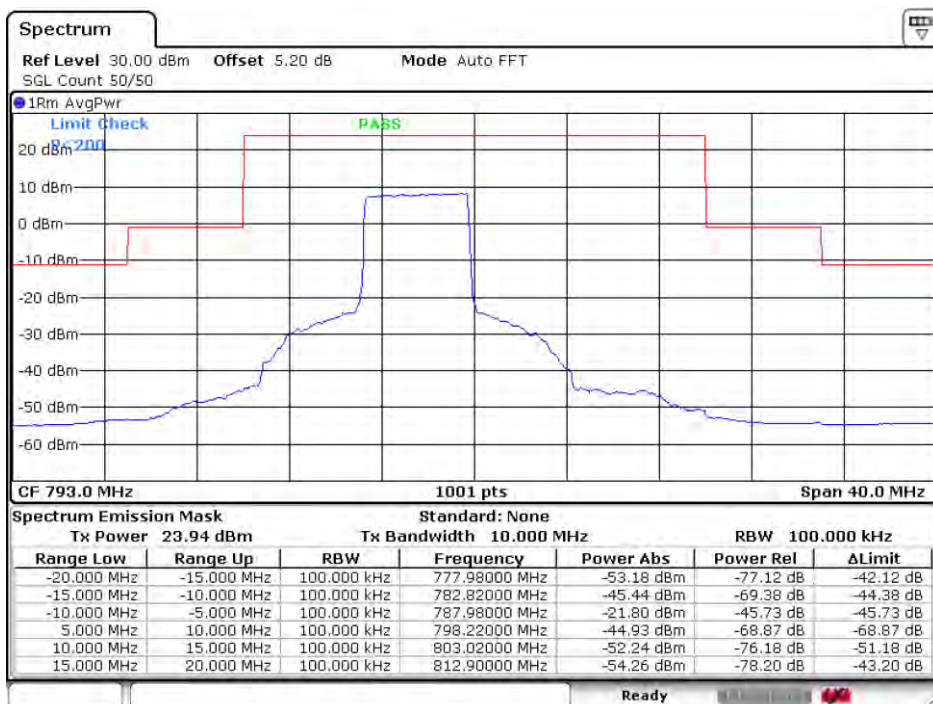
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5. Emission Mask

5.1. Test Plots



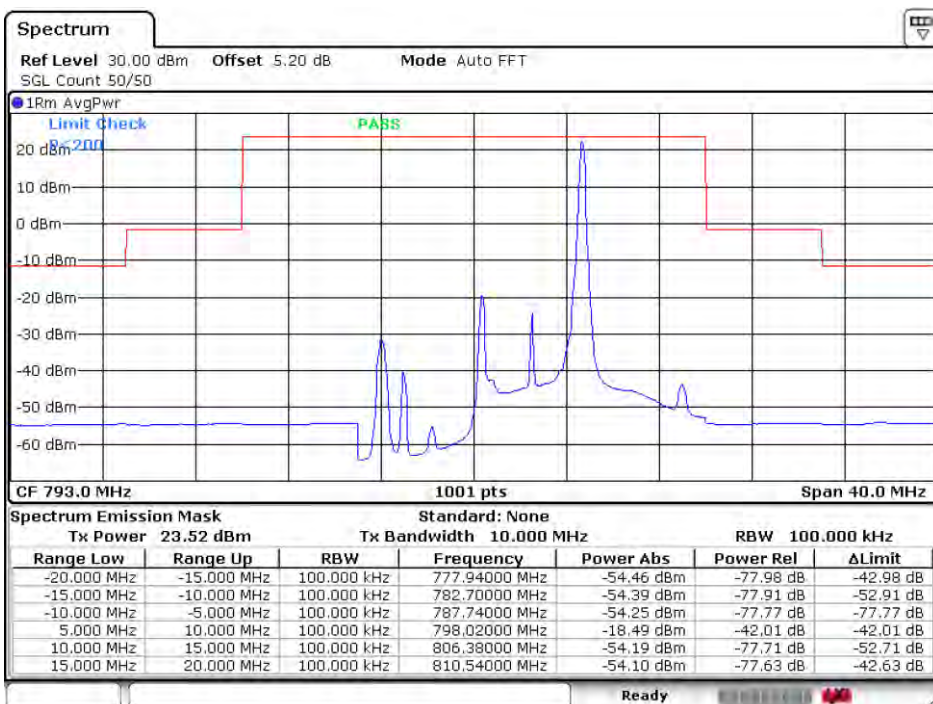
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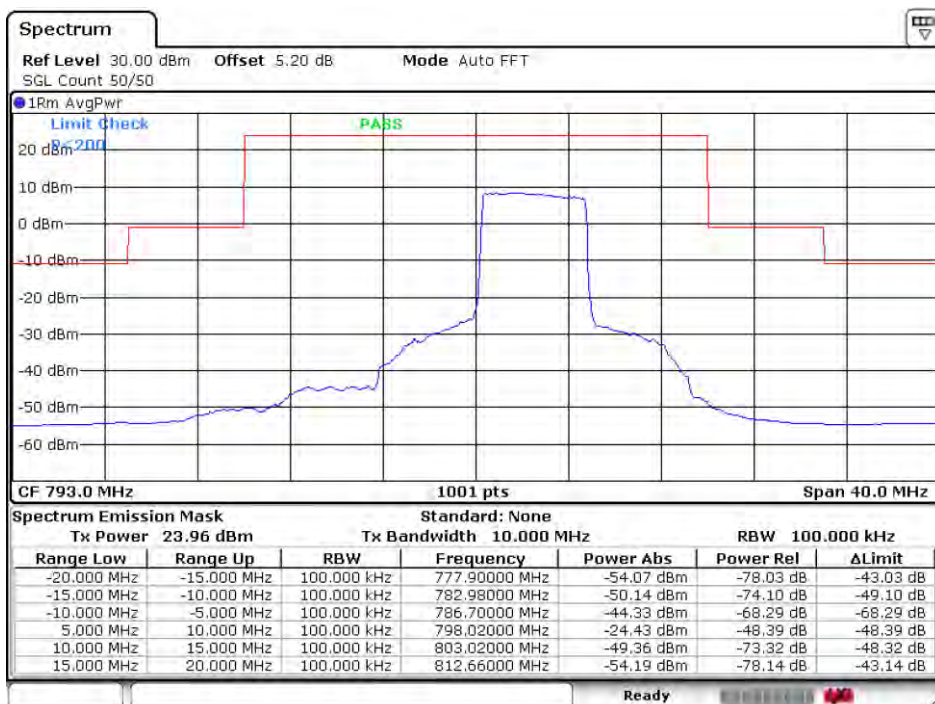
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Date: 23.APR.2021 04:39:16



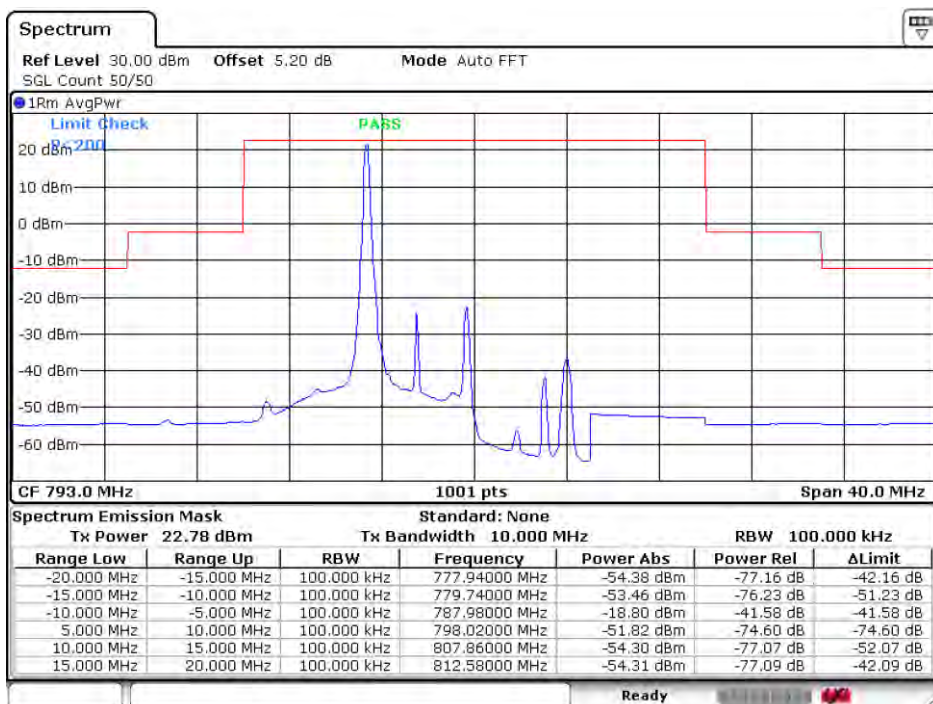
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Date: 23.APR.2021 04:40:36



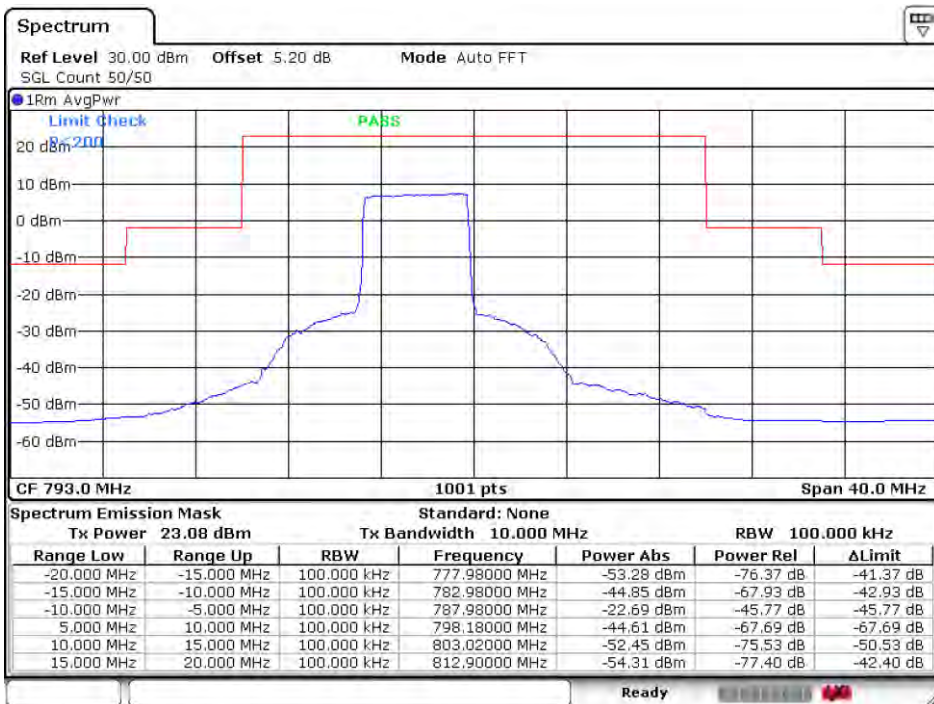
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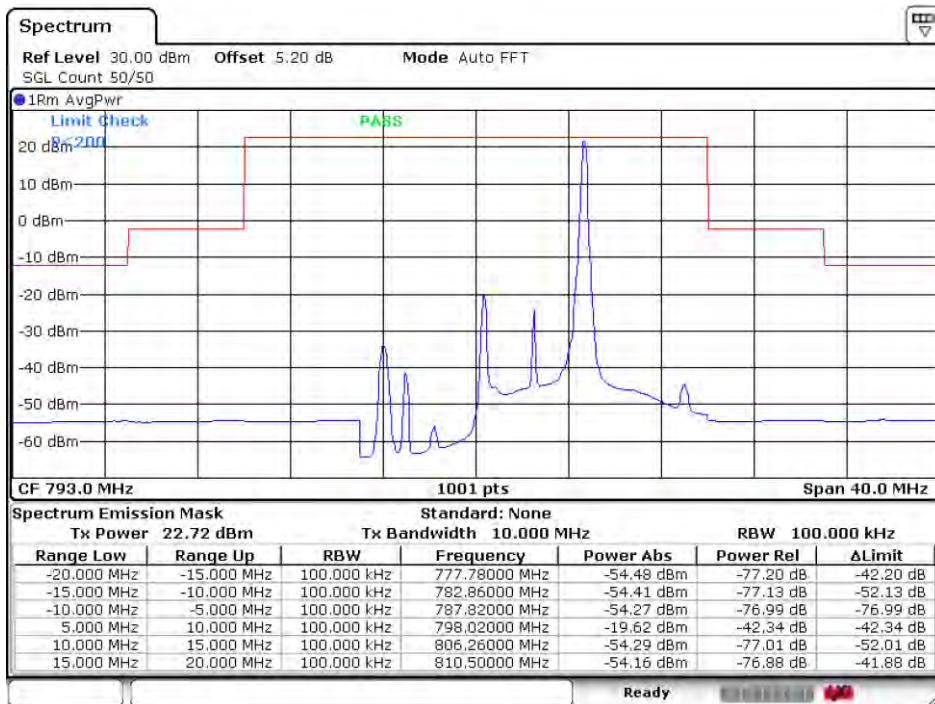
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Date: 23.APR.2021 04:36:22



BAND 14_5MHz_16QAM_23355_1RB#24



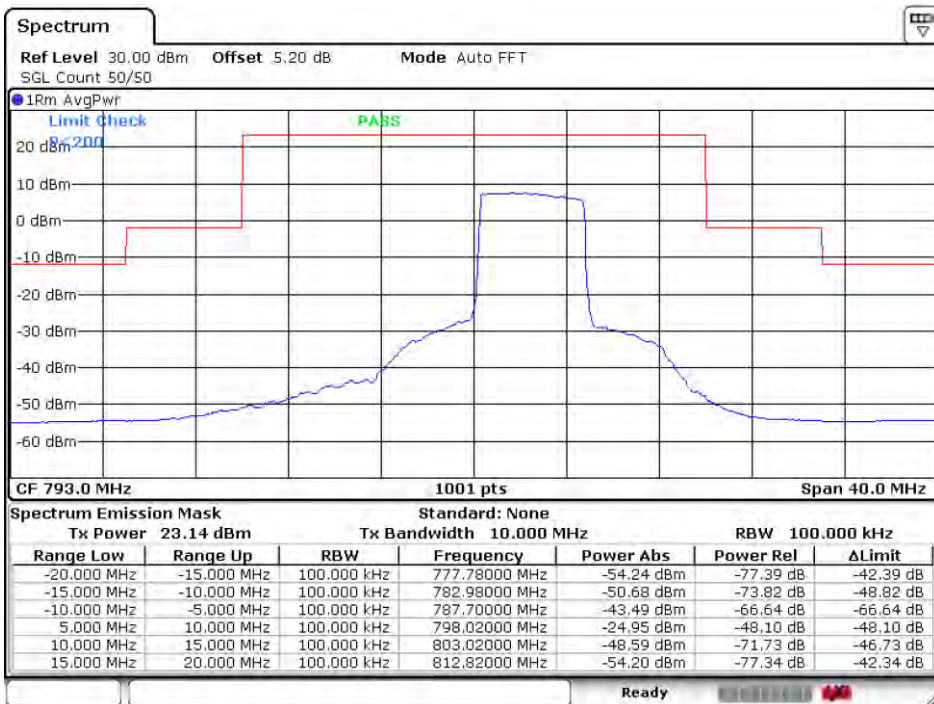
Date: 23.APR.2021 04:39:43



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BAND 14_5MHz_16QAM_23355_25RB#0



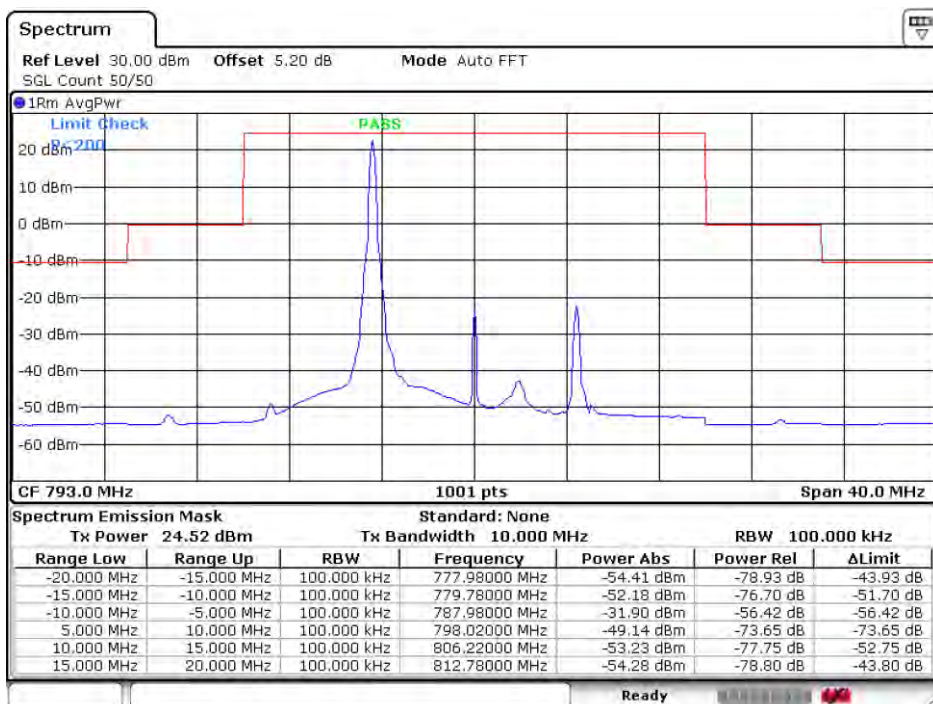
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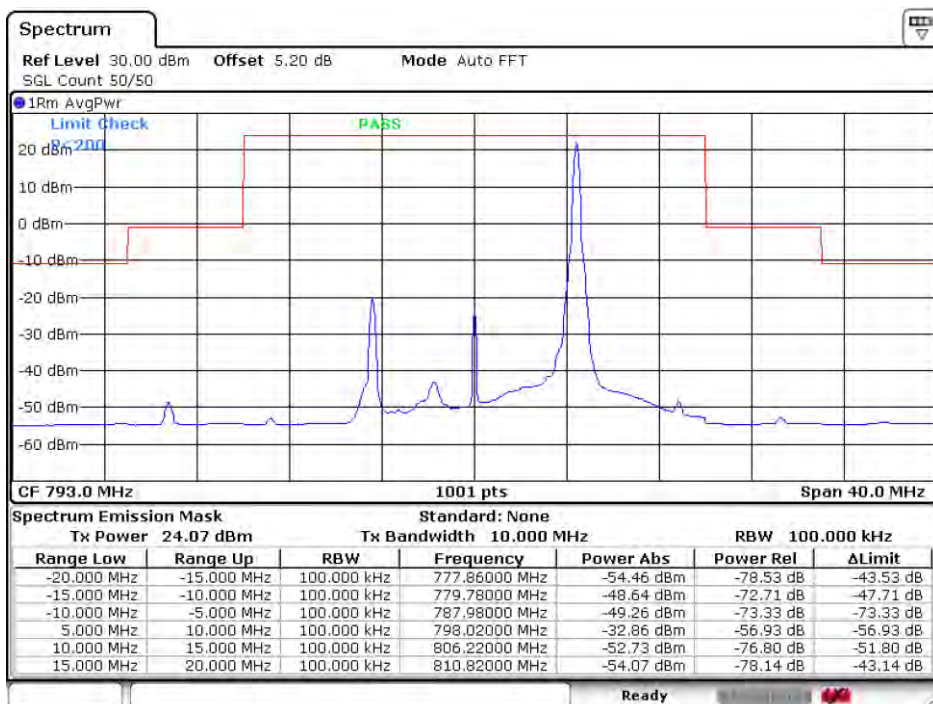
BAND 14_10MHz_QPSK_23330_1RB#0



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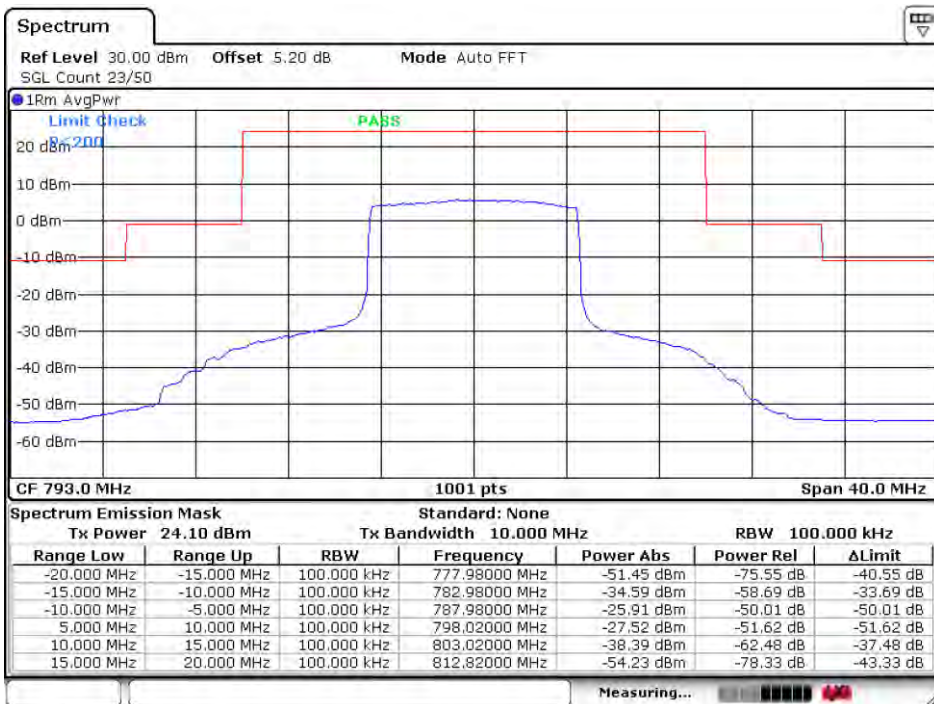
BAND 14_10MHz_QPSK_23330_1RB#49



Date: 23.APR.2021 04:33:29



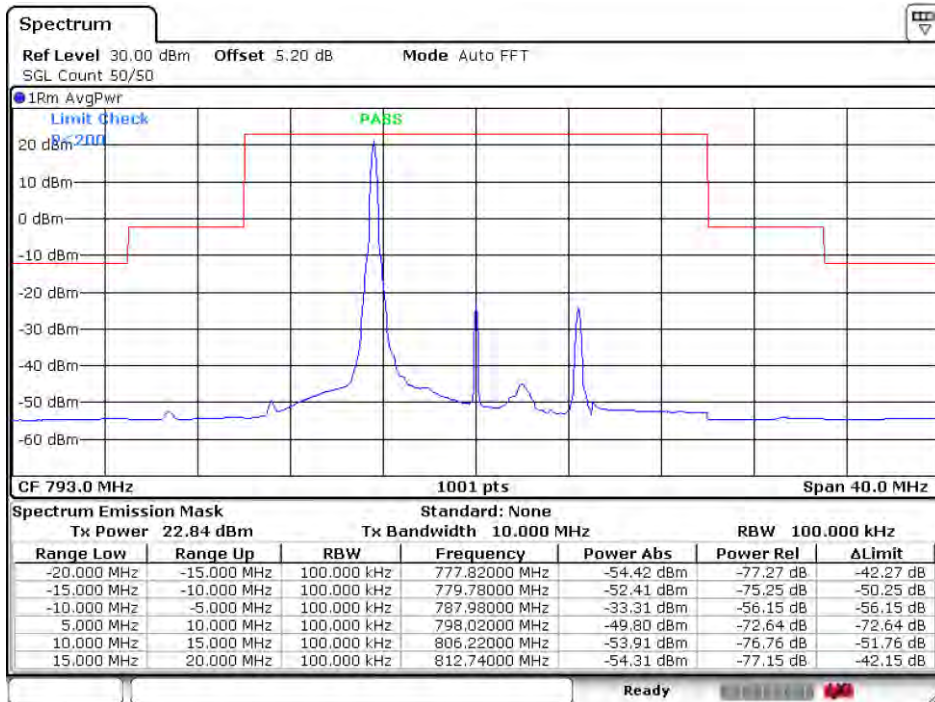
BAND 14_10MHz_QPSK_23330_50RB#0



Date: 23.APR.2021 04:28:24



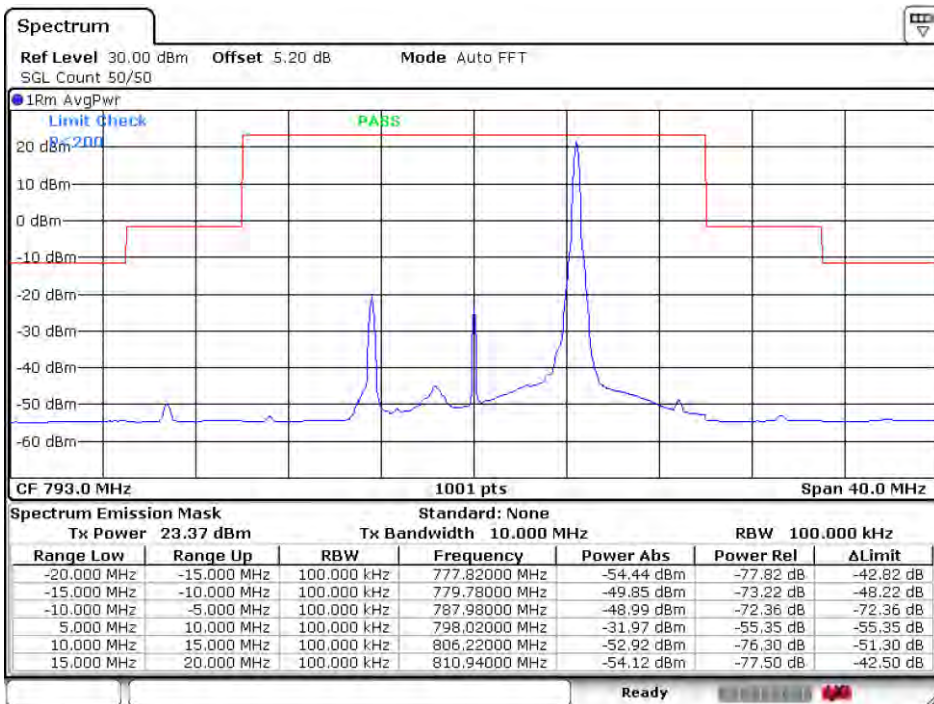
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Date: 23.APR.2021 04:32:24



BAND 14_10MHz_16QAM_23330_1RB#49



Date: 23.APR.2021 04:33:51



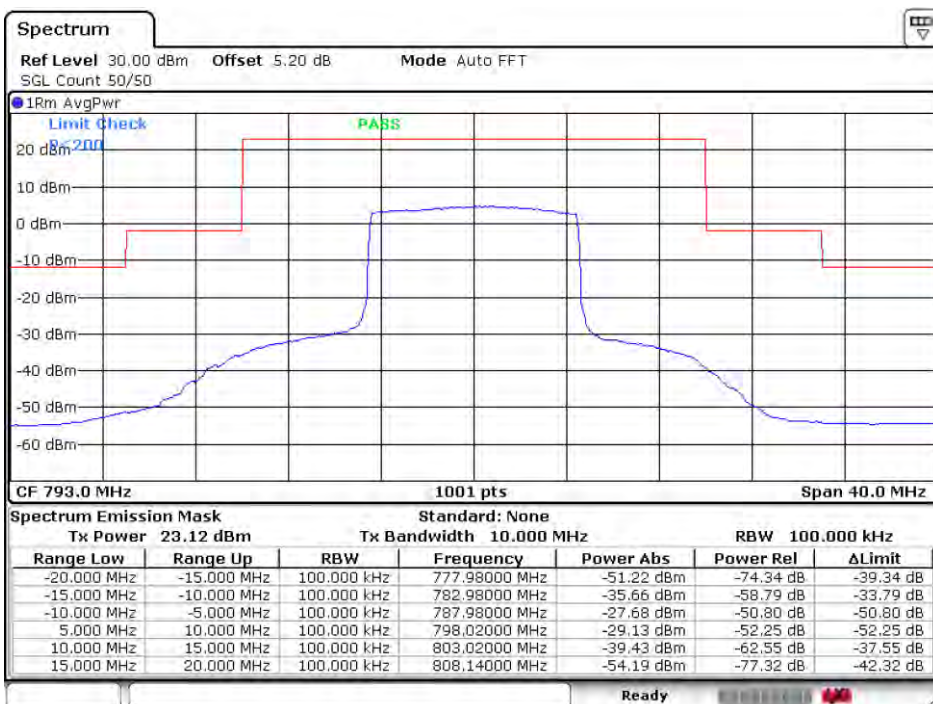
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BAND 14_10MHz_16QAM_23330_50RB#0



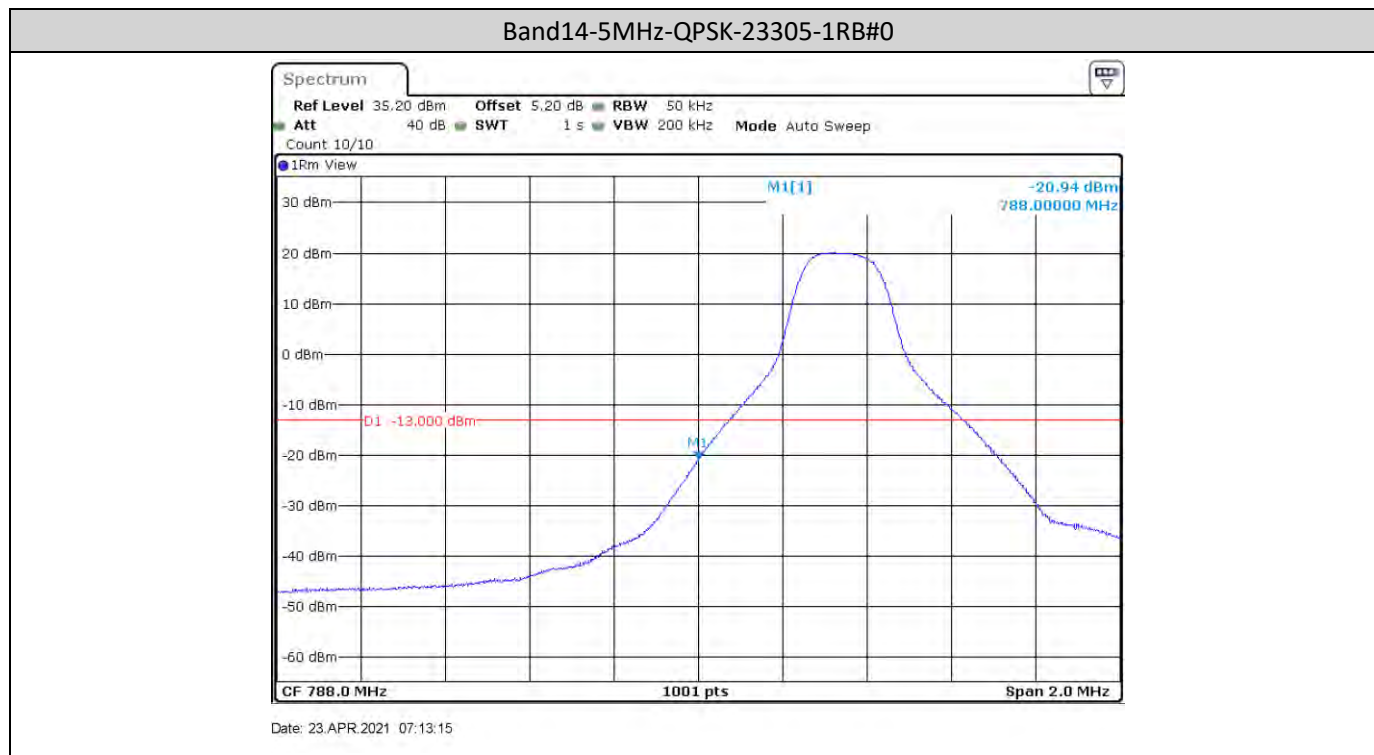
Date: 23.APR.2021 04:29:25





6. Band Edge Compliance

6.1. Test Plots



Band14-5MHz-QPSK-23305-25RB#0



Date: 23.APR 2021 07:14:01

Band14-5MHz-QPSK-23355-1RB#24



Date: 23.APR 2021 07:14:47

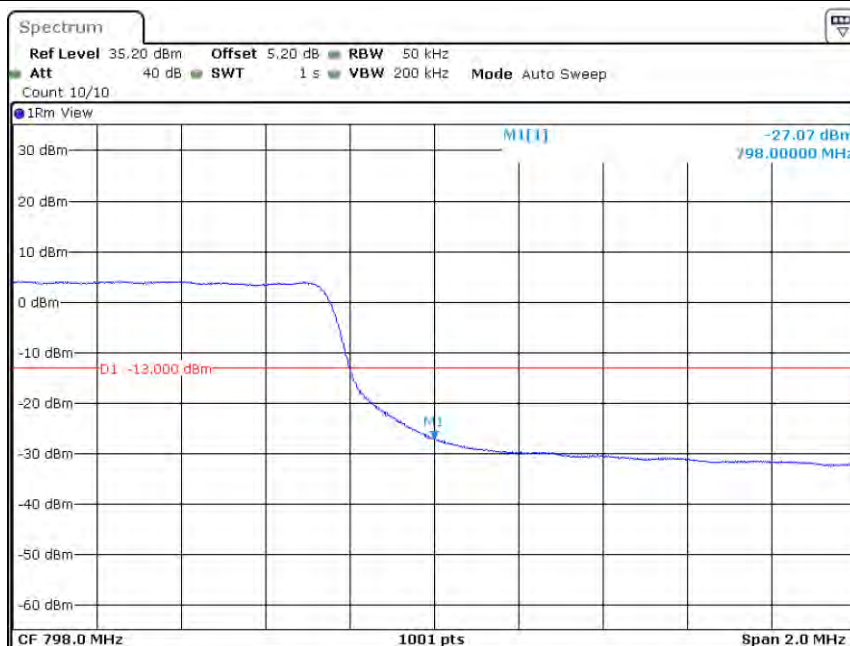


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Band14-5MHz-QPSK-23355-25RB#0



Date: 23.APR.2021 07:15:28

Band14-5MHz-16QAM-23305-1RB#0



Date: 23.APR.2021 07:13:36



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Band14-5MHz-16QAM-23305-25RB#0



Date: 23.APR 2021 07:14:22

Band14-5MHz-16QAM-23355-1RB#24



Date: 23.APR 2021 07:15:07

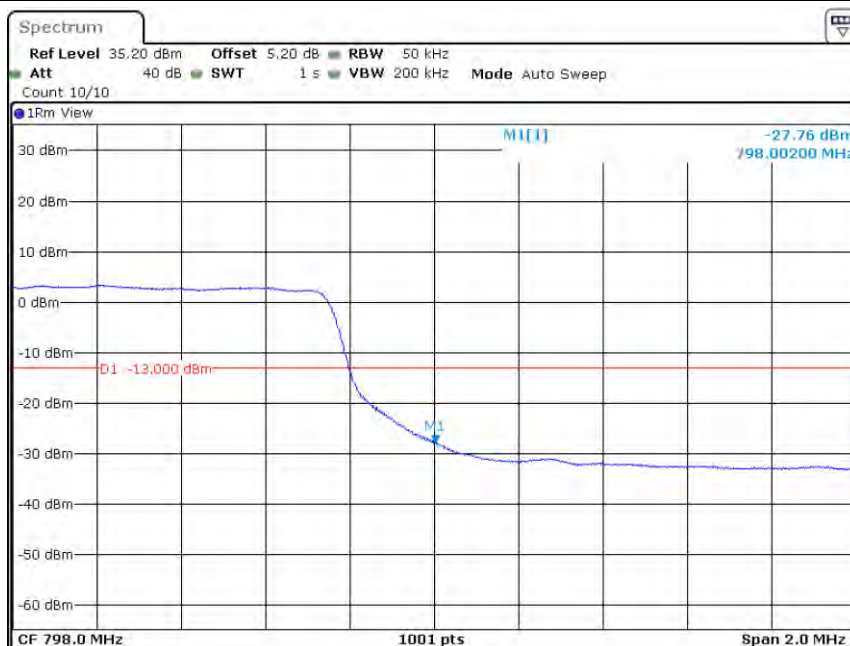


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Band14-5MHz-16QAM-23355-25RB#0



Date: 23.APR 2021 07:15:56

Band14-10MHz-QPSK-23330_Left-1RB#0



Date: 23.MAR 2021 09:23:20



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Band14-10MHz-QPSK-23330_Right-1RB#49



Date: 23 MAR 2021 09:24:05

Band14-10MHz-QPSK-23330_Right-50RB#0



Date: 23 MAR 2021 09:24:47





Band14-10MHz-16QAM-23330_Left-1RB#0



Date: 23 MAR 2021 09:23:41

Band14-10MHz-16QAM-23330_Right-1RB#49



Date: 23 MAR 2021 09:24:26



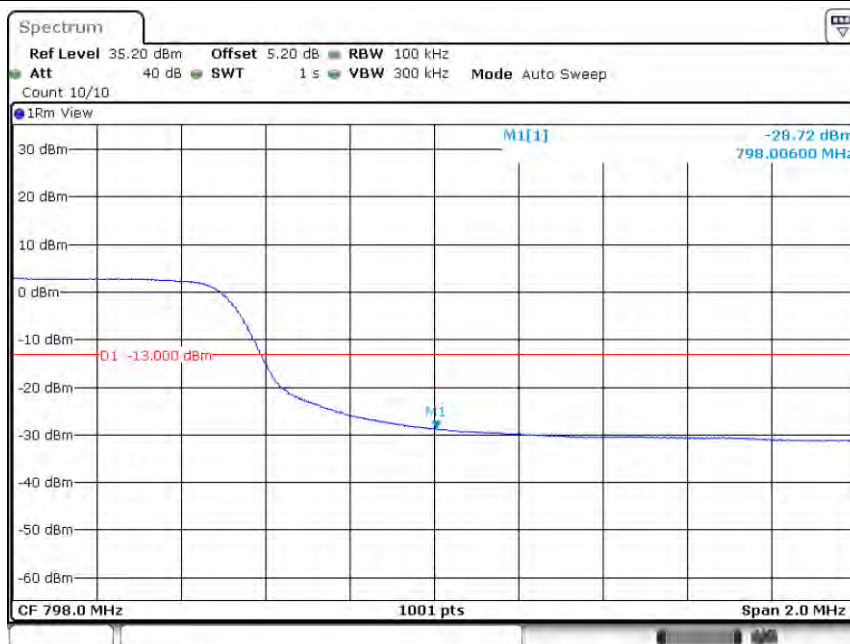
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Band14-10MHz-16QAM-23330_Right-50RB#0



Date: 23 MAR 2021 09:25:07



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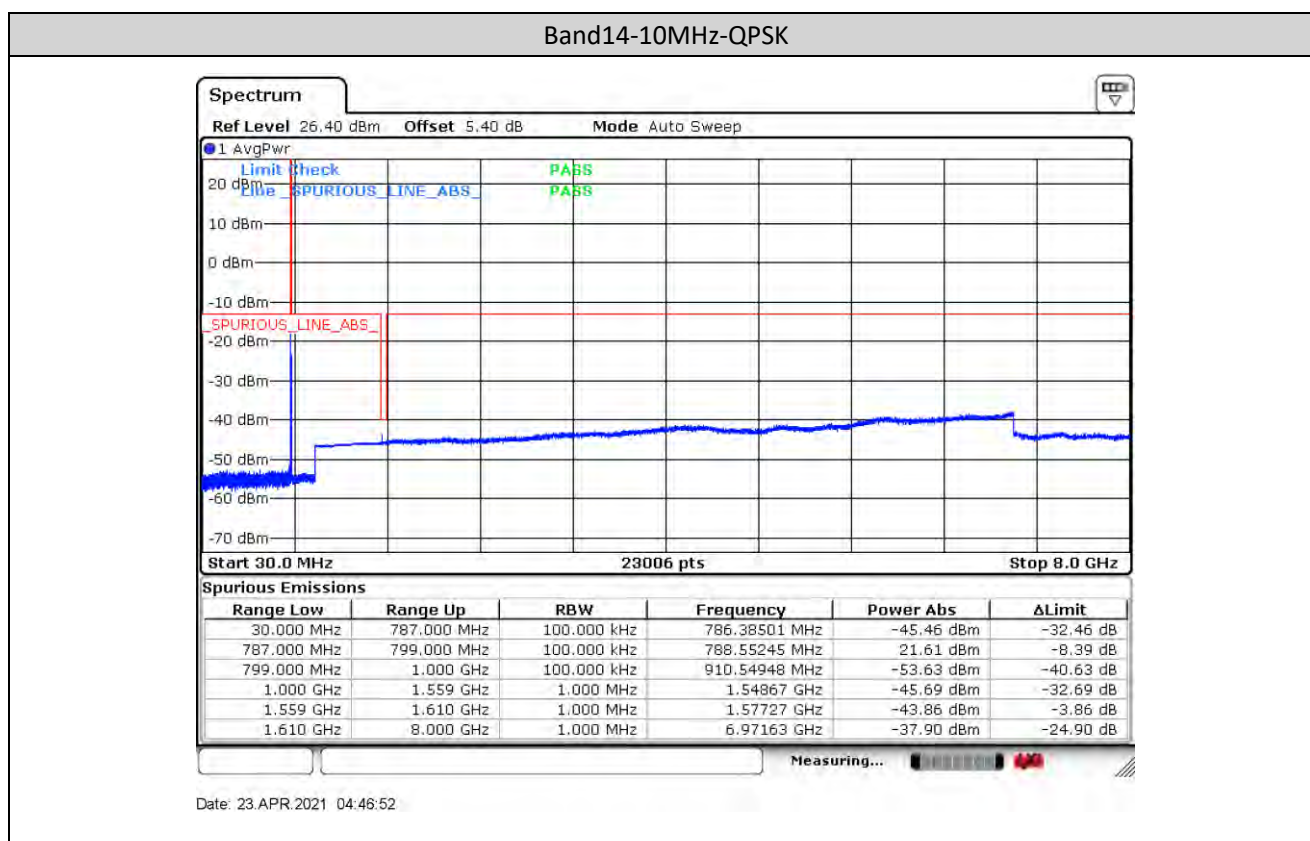
7. Spurious Emission at Antenna Terminal

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.

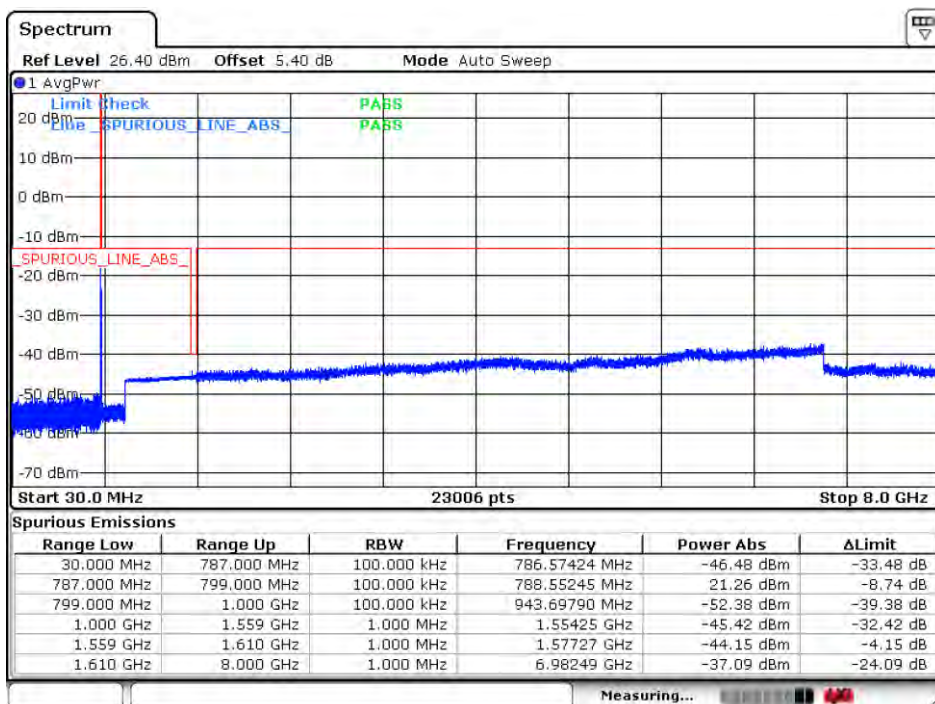
Remark2: According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.

Remark3: 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 had been displayed.

7.1. Test Plots



Band14-10MHz-16QAM



Date: 23.APR.2021 04:46:26





8. Field Strength of Spurious Radiation

ANT1:

8.1. Test Band = LTE_Band=14 BW=20MHz_TM1

8.1.1. Test Channel = Mid Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	42.1265	-101.00	-68.63	-13.00	55.63	Horizontal
2	178.4286	-92.44	-71.49	-13.00	58.49	Horizontal
3	396.8271	-98.77	-70.67	-13.00	57.67	Horizontal
4	1577.1431	-70.94	-52.11	-40.00	12.11	Horizontal
5	3154.2862	-36.61	-43.68	-13.00	30.68	Horizontal
6	3942.7977	-45.54	-52.14	-13.00	39.14	Horizontal

8.2. Test Band = LTE_Band=14 BW=20MHz_TM1

8.2.1. Test Channel = Mid Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	50.3725	-98.32	-74.18	-13.00	61.18	Vertical
2	111.2477	-100.30	-68.47	-13.00	55.47	Vertical
3	224.3880	-96.97	-72.67	-13.00	59.67	Vertical
4	1577.3031	-78.72	-60.17	-40.00	20.17	Vertical
5	3154.0062	-44.16	-52.04	-13.00	39.04	Vertical
6	5302.5321	-55.26	-54.21	-13.00	41.21	Vertical



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ANT2:

8.3. Test Band = LTE_Band=14 BW=20MHz_TM1

8.3.1. Test Channel = Mid Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	41.1564	-71.90	-56.12	-13.00	43.12	Horizontal
2	156.1158	-75.62	-72.44	-13.00	59.44	Horizontal
3	340.0750	-80.35	-68.58	-13.00	55.58	Horizontal
4	1885.8607	-69.93	-58.57	-13.00	45.57	Horizontal
5	3171.9269	-39.53	-46.87	-13.00	33.87	Horizontal
6	5283.2113	-57.00	-55.75	-13.00	42.75	Horizontal

8.4. Test Band = LTE_Band=14 BW=20MHz_TM1

8.4.1. Test Channel = Mid Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	44.3093	-75.29	-69.17	-13.00	56.17	Vertical
2	109.6712	-81.83	-66.59	-13.00	53.59	Vertical
3	998.7873	-82.45	-58.01	-13.00	45.01	Vertical
4	3000.0000	-74.39	-53.90	-13.00	40.90	Vertical
5	5281.2513	-57.33	-56.62	-13.00	43.62	Vertical
6	9899.7560	-60.14	-52.41	-13.00	39.41	Vertical

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.





9. Frequency Stability

9.1. Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band14	10MHz	QPSK	23330	50RB#0	VL	NT	0.40	0.000504	±2.5	PASS
Band14	10MHz	QPSK	23330	50RB#0	VN	NT	-1.00	-0.001261	±2.5	PASS
Band14	10MHz	QPSK	23330	50RB#0	VH	NT	0.10	0.000126	±2.5	PASS
Band14	10MHz	16QAM	23330	50RB#0	VL	NT	0.10	0.000126	±2.5	PASS
Band14	10MHz	16QAM	23330	50RB#0	VN	NT	-0.60	-0.000757	±2.5	PASS
Band14	10MHz	16QAM	23330	50RB#0	VH	NT	-1.20	-0.001513	±2.5	PASS

9.2. Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band14	10MHz	QPSK	23330	50RB#0	NV	-30	0.00	0.000000	±2.5	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	-20	0.20	0.000252	±2.5	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	-10	-0.10	-0.000126	±2.5	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	0	-1.40	-0.001765	±2.5	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	10	-0.80	-0.001009	±2.5	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	20	0.10	0.000126	±2.5	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	30	-0.20	-0.000252	±2.5	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	40	-1.90	-0.002396	±2.5	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	50	-1.80	-0.002270	±2.5	PASS
Band14	10MHz	16QAM	23330	50RB#0	NV	-30	0.10	0.000126	±2.5	PASS
Band14	10MHz	16QAM	23330	50RB#0	NV	-20	-0.20	-0.000252	±2.5	PASS
Band14	10MHz	16QAM	23330	50RB#0	NV	-10	-0.70	-0.000883	±2.5	PASS
Band14	10MHz	16QAM	23330	50RB#0	NV	0	-0.30	-0.000378	±2.5	PASS
Band14	10MHz	16QAM	23330	50RB#0	NV	10	-2.00	-0.002522	±2.5	PASS
Band14	10MHz	16QAM	23330	50RB#0	NV	20	-1.40	-0.001765	±2.5	PASS
Band14	10MHz	16QAM	23330	50RB#0	NV	30	-2.80	-0.003531	±2.5	PASS
Band14	10MHz	16QAM	23330	50RB#0	NV	40	-0.90	-0.001135	±2.5	PASS
Band14	10MHz	16QAM	23330	50RB#0	NV	50	-1.60	-0.002018	±2.5	PASS



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