Appendix B

E-UTRA Band 14

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1 Effective (Isotropic) Radiated Power

1.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band14	5MHz	QPSK	23305	1RB#12	23.27	24.76	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#24	23.34	24.83	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#0	23.10	24.59	34.77	PASS
Band14	5MHz	QPSK	23305	12RB#0	22.30	23.79	34.77	PASS
Band14	5MHz	QPSK	23305	12RB#6	22.39	23.88	34.77	PASS
Band14	5MHz	QPSK	23305	12RB#13	22.32	23.81	34.77	PASS
Band14	5MHz	QPSK	23305	25RB#0	22.35	23.84	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#0	23.13	24.62	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#12	23.27	24.76	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#24	23.04	24.53	34.77	PASS
Band14	5MHz	QPSK	23330	12RB#0	22.37	23.86	34.77	PASS
Band14	5MHz	QPSK	23330	12RB#6	22.37	23.86	34.77	PASS
Band14	5MHz	QPSK	23330	12RB#13	22.28	23.77	34.77	PASS
Band14	5MHz	QPSK	23330	25RB#0	22.29	23.78	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#24	23.11	24.60	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#0	23.25	24.74	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#12	23.19	24.68	34.77	PASS
Band14	5MHz	QPSK	23355	12RB#6	22.46	23.95	34.77	PASS
Band14	5MHz	QPSK	23355	12RB#0	22.40	23.89	34.77	PASS
Band14	5MHz	QPSK	23355	12RB#13	22.31	23.80	34.77	PASS
Band14	5MHz	QPSK	23355	25RB#0	22.31	23.80	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#12	22.26	23.75	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#0	22.71	24.20	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#24	22.22	23.71	34.77	PASS
Band14	5MHz	16QAM	23305	12RB#13	21.29	22.78	34.77	PASS
Band14	5MHz	16QAM	23305	12RB#6	21.40	22.89	34.77	PASS
Band14	5MHz	16QAM	23305	12RB#0	21.32	22.81	34.77	PASS

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Band14	5MHz	16QAM	23305	25RB#0	21.29	22.78	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#0	22.68	24.17	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#12	22.48	23.97	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#24	22.32	23.81	34.77	PASS
Band14	5MHz	16QAM	23330	12RB#0	21.42	22.91	34.77	PASS
Band14	5MHz	16QAM	23330	12RB#6	21.41	22.90	34.77	PASS
Band14	5MHz	16QAM	23330	12RB#13	21.35	22.84	34.77	PASS
Band14	5MHz	16QAM	23330	25RB#0	21.30	22.79	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#0	22.44	23.93	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#12	22.48	23.97	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#24	22.40	23.89	34.77	PASS
Band14	5MHz	16QAM	23355	12RB#13	21.35	22.84	34.77	PASS
Band14	5MHz	16QAM	23355	12RB#0	21.42	22.91	34.77	PASS
Band14	5MHz	16QAM	23355	12RB#6	21.29	22.78	34.77	PASS
Band14	5MHz	16QAM	23355	25RB#0	21.32	22.81	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#49	23.15	24.64	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#24	23.42	24.91	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#0	23.30	24.79	34.77	PASS
Band14	10MHz	QPSK	23330	25RB#0	22.58	24.07	34.77	PASS
Band14	10MHz	QPSK	23330	25RB#12	22.33	23.82	34.77	PASS
Band14	10MHz	QPSK	23330	25RB#25	22.28	23.77	34.77	PASS
Band14	10MHz	QPSK	23330	50RB#0	22.41	23.90	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#49	22.56	24.05	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#0	22.74	24.23	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#24	22.35	23.84	34.77	PASS
Band14	10MHz	16QAM	23330	25RB#0	21.57	23.06	34.77	PASS
Band14	10MHz	16QAM	23330	25RB#12	21.37	22.86	34.77	PASS
Band14	10MHz	16QAM	23330	25RB#25	21.28	22.77	34.77	PASS
Band14	10MHz	16QAM	23330	50RB#0	21.43	22.92	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 [dBd]

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

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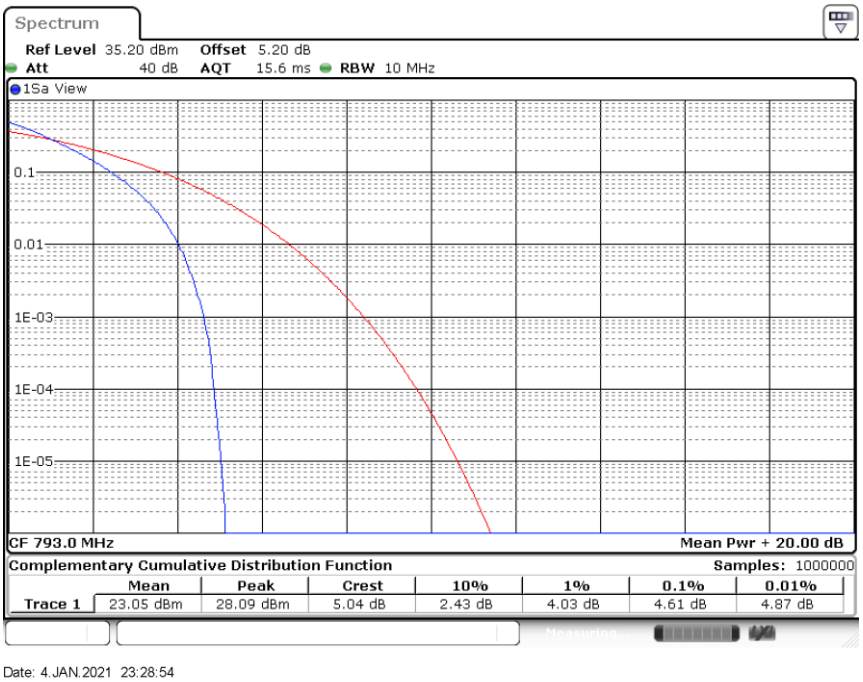
2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band14	10MHz	QPSK	23330	50RB#0	4.61	13	PASS
Band14	10MHz	16QAM	23330	50RB#0	5.57	13	PASS

2.2. Test Plots

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



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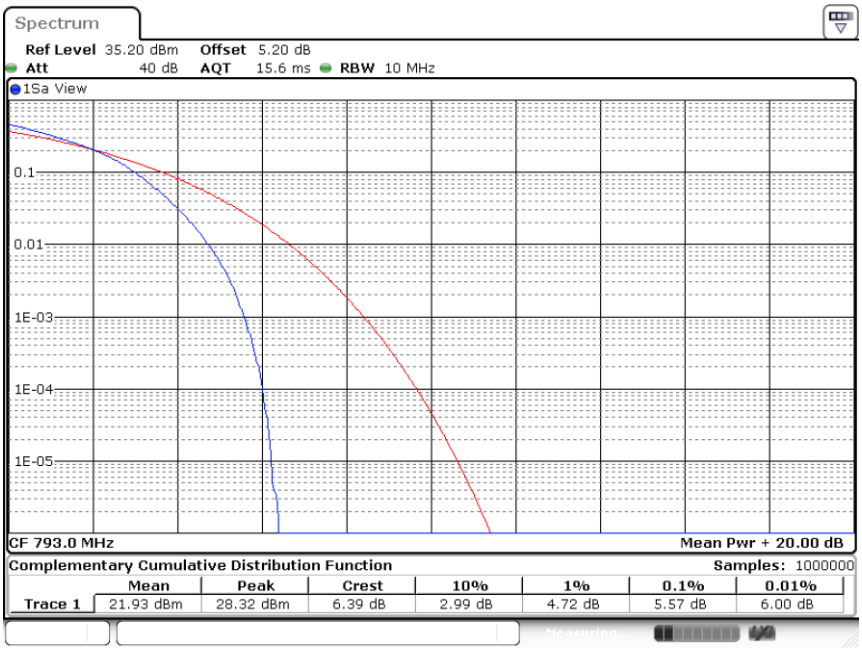
Band14-10MHz-16QAM-23330-50RB#0



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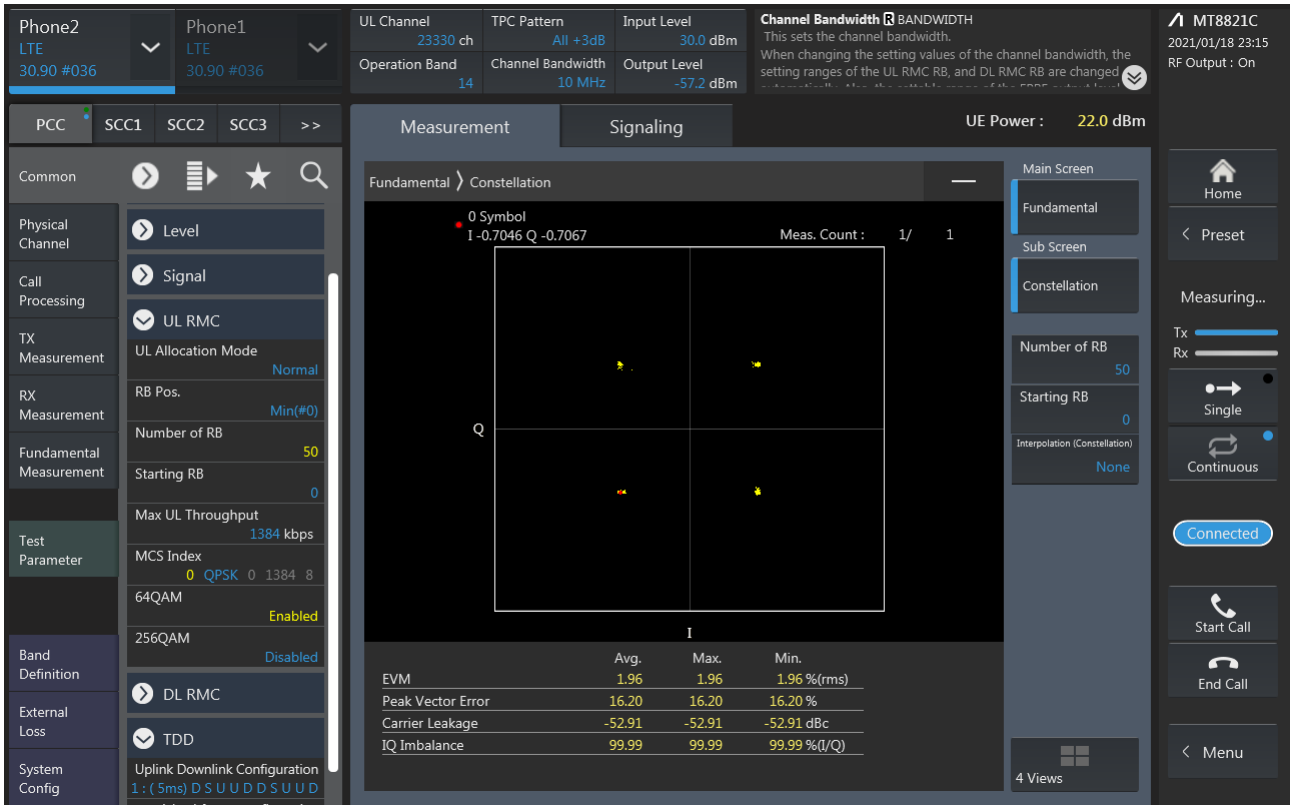
3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 10MHz

3.1.1. Test Channel = MCH



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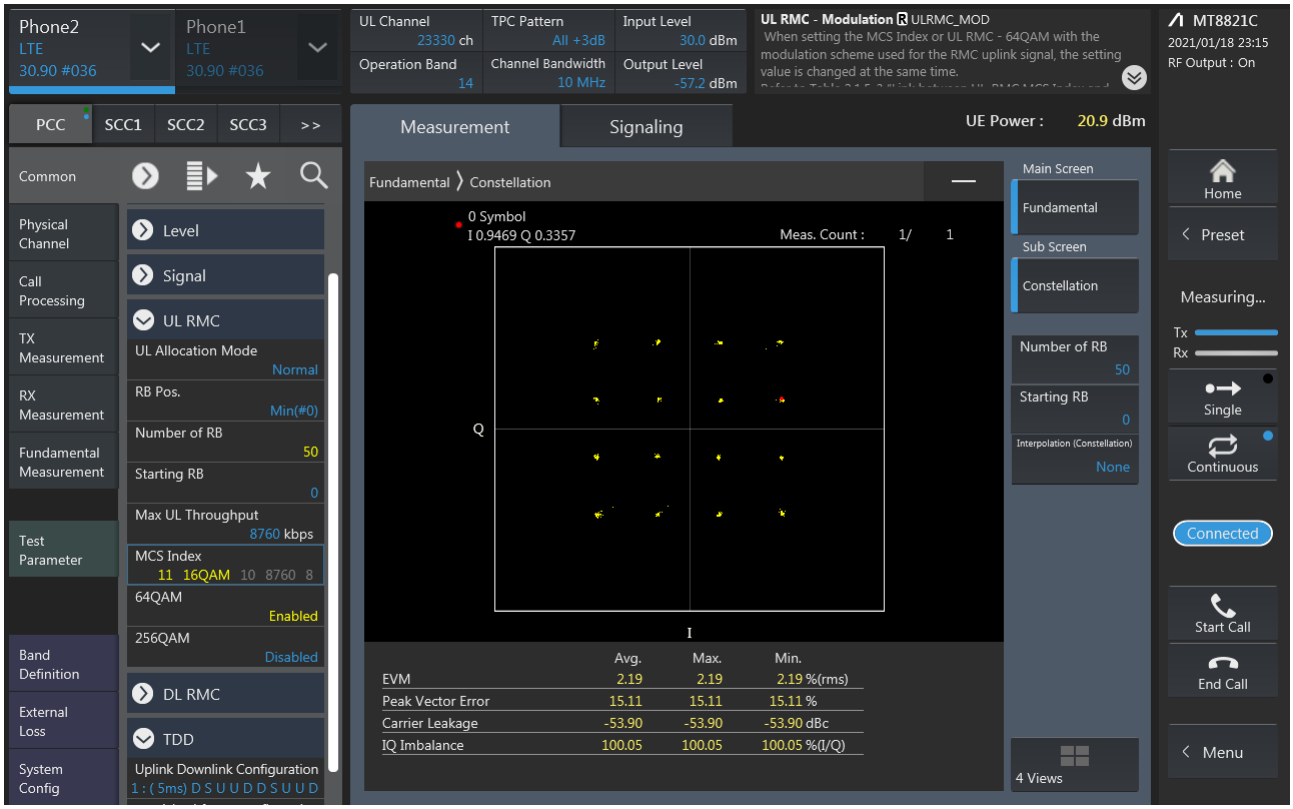
3.2. Test Mode = LTE /TM2 10MHz

3.2.1. Test Channel = MCH



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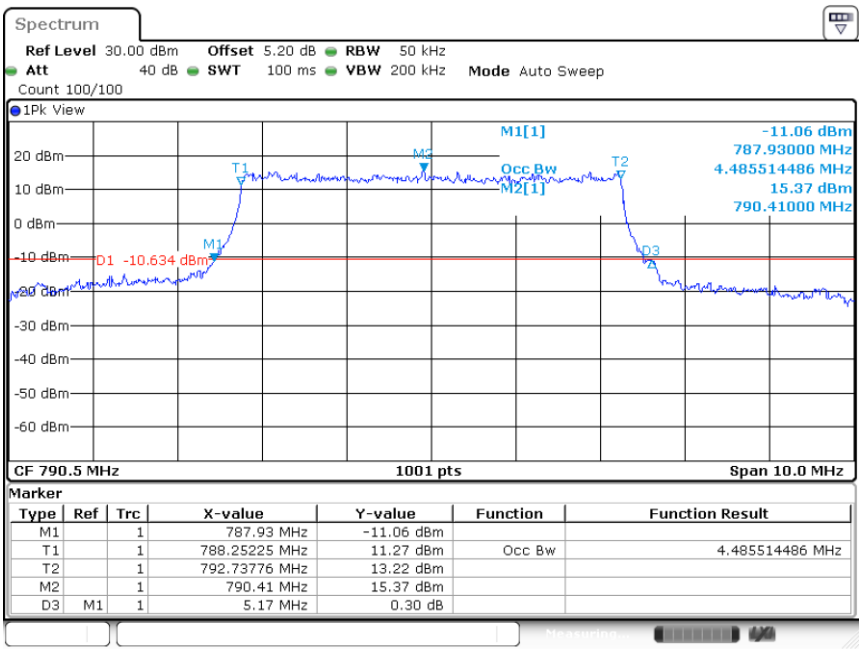
4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band14	5MHz	QPSK	23305	25RB#0	4.486	5.170	PASS
Band14	5MHz	QPSK	23330	25RB#0	4.486	5.060	PASS
Band14	5MHz	QPSK	23355	25RB#0	4.476	5.030	PASS
Band14	5MHz	16QAM	23305	25RB#0	4.505	5.140	PASS
Band14	5MHz	16QAM	23330	25RB#0	4.496	5.090	PASS
Band14	5MHz	16QAM	23355	25RB#0	4.496	5.060	PASS
Band14	10MHz	QPSK	23330	50RB#0	8.951	9.920	PASS
Band14	10MHz	16QAM	23330	50RB#0	8.951	9.940	PASS

4.2. Test Plots

Band14-5MHz-QPSK-23305-25RB#0-4.486



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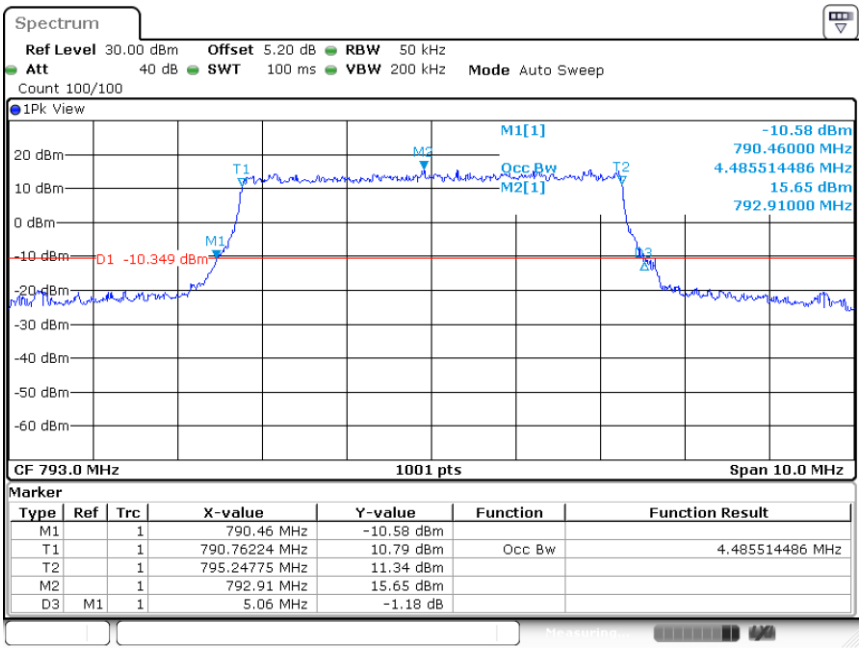

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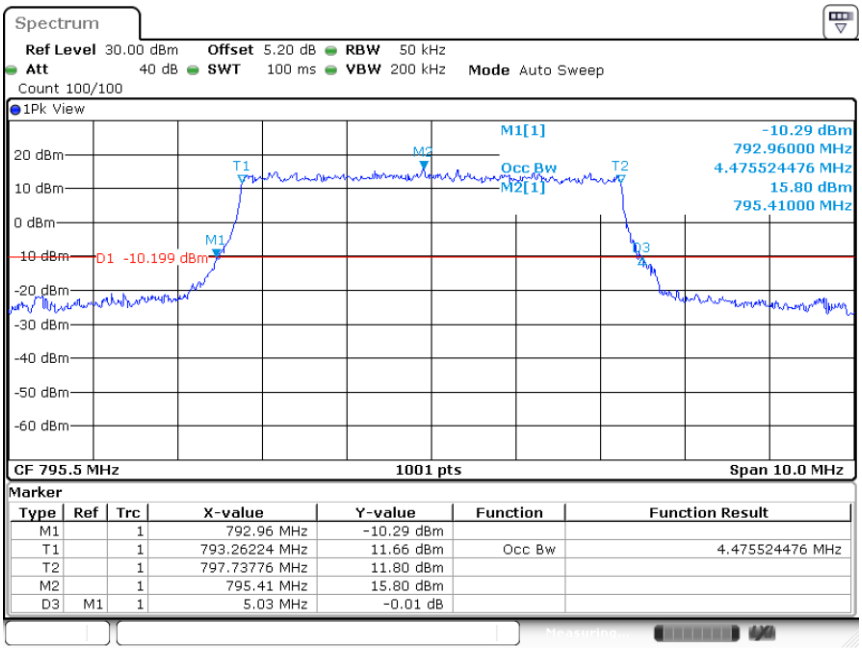
Band14-5MHz-QPSK-23355-25RB#0-4.476



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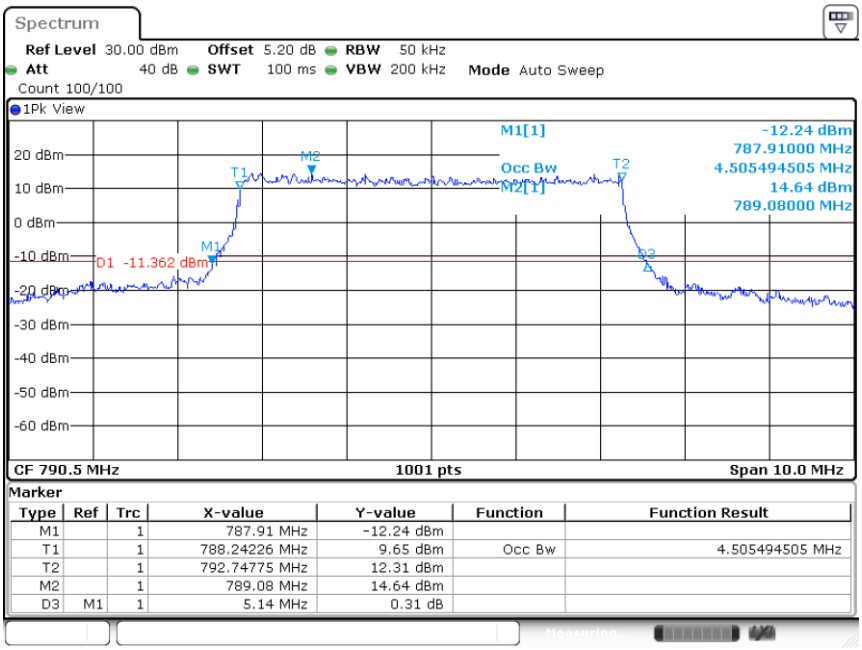
Band14-5MHz-16QAM-23305-25RB#0-4.505



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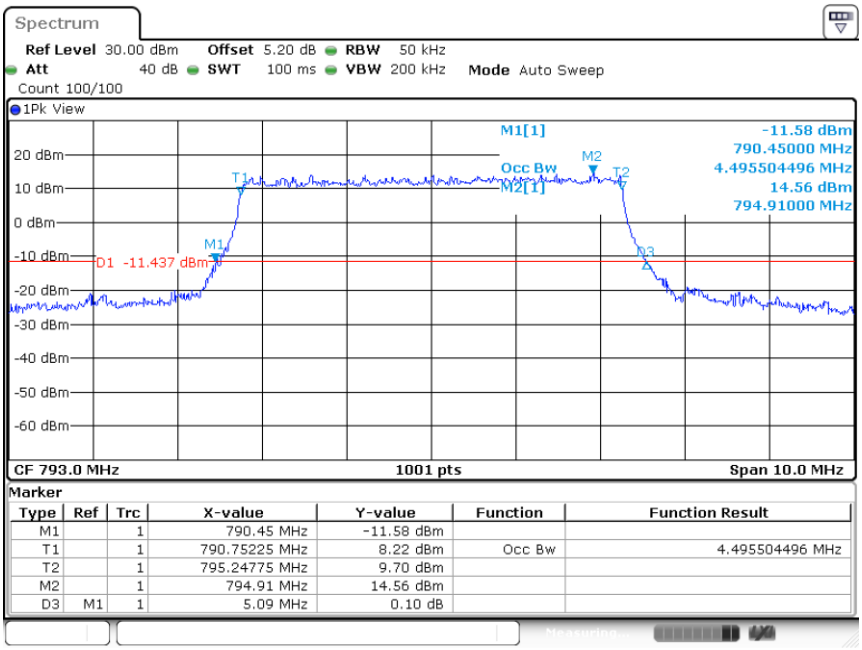

Date: 4.JAN.2021 23:22:24

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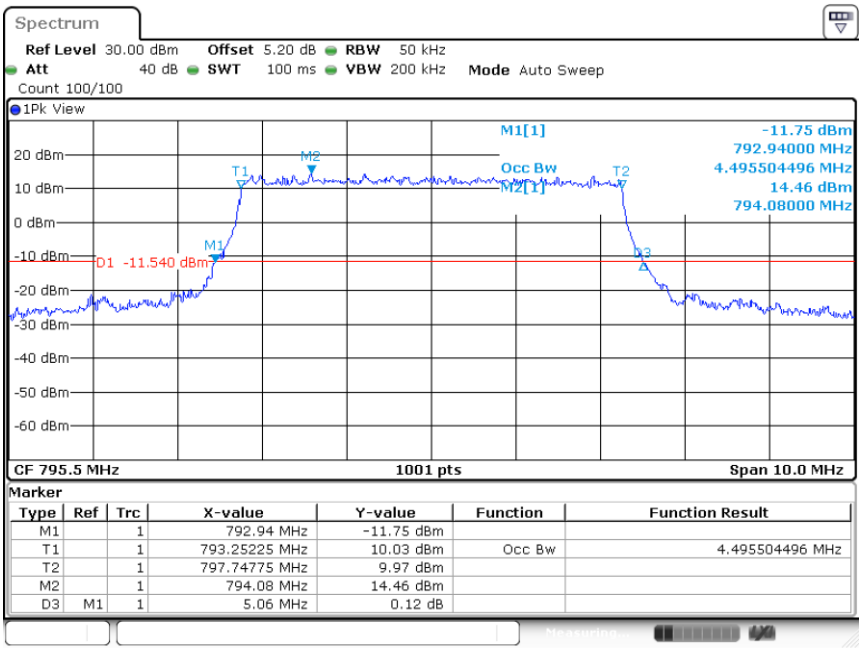
Band14-5MHz-16QAM-23355-25RB#0-4.496



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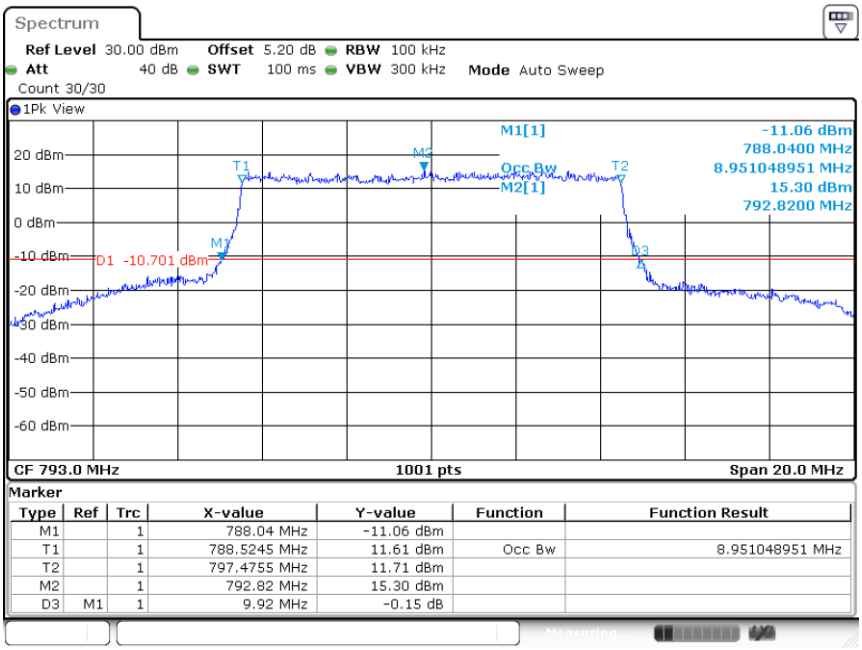
Band14-10MHz-QPSK-23330-50RB#0-8.951



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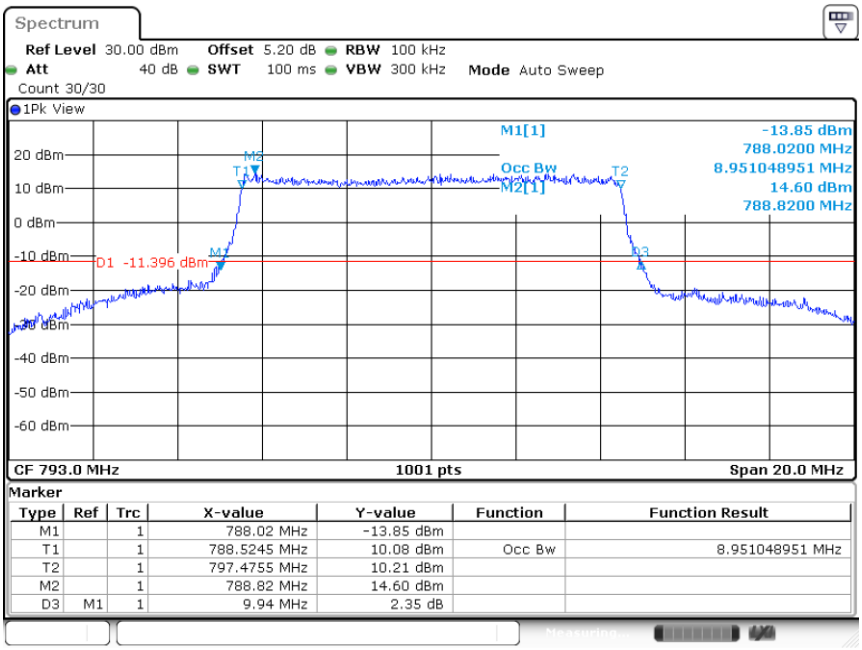
Band14-10MHz-16QAM-23330-50RB#0-8.951



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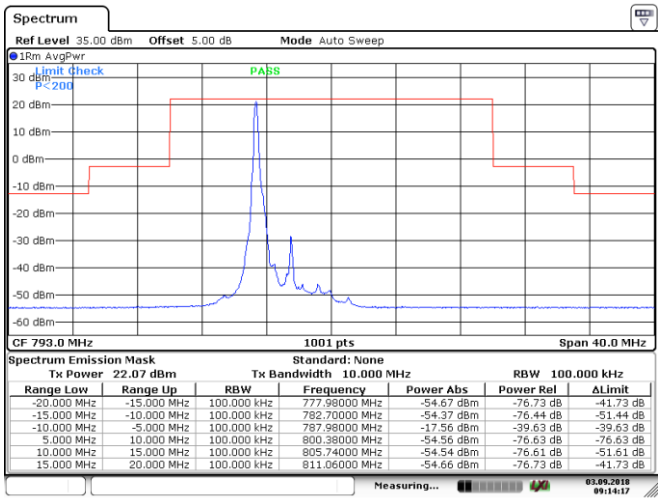
5. Emission Mask

5.1. Test Plots

BAND 14_5MHz_QPSK_23305_1RB#0



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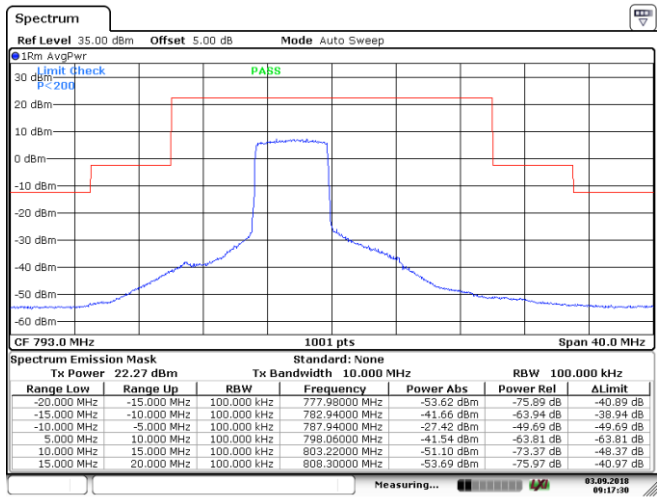

Date: 3.SEP.2018 09:17:30

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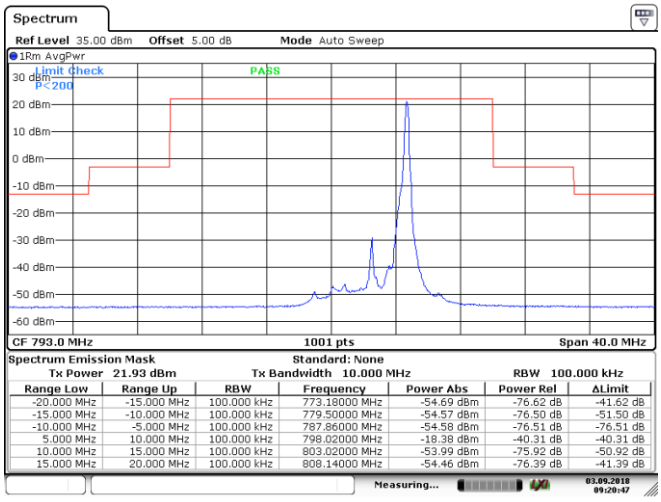
BAND 14_5MHz_QPSK_23355_1RB#24



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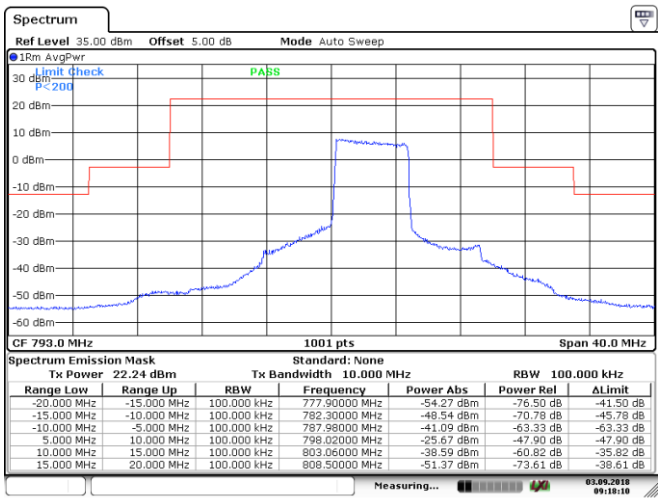

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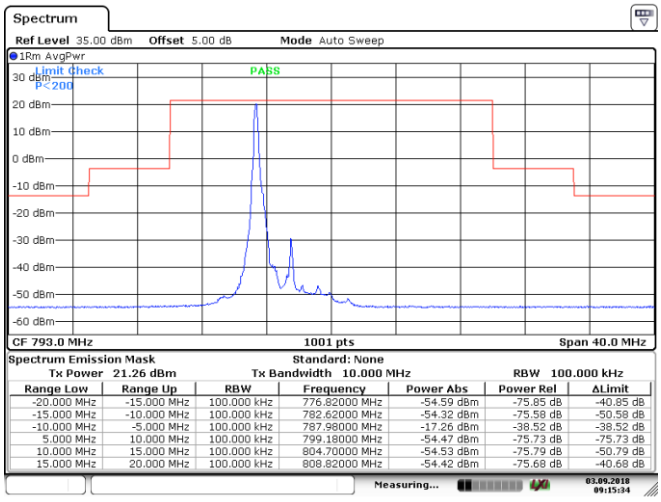
BAND 14_5MHz_16QAM_23305_1RB#0



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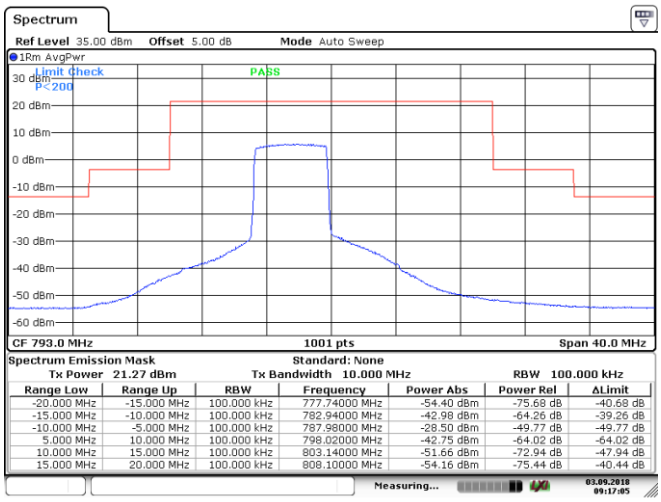

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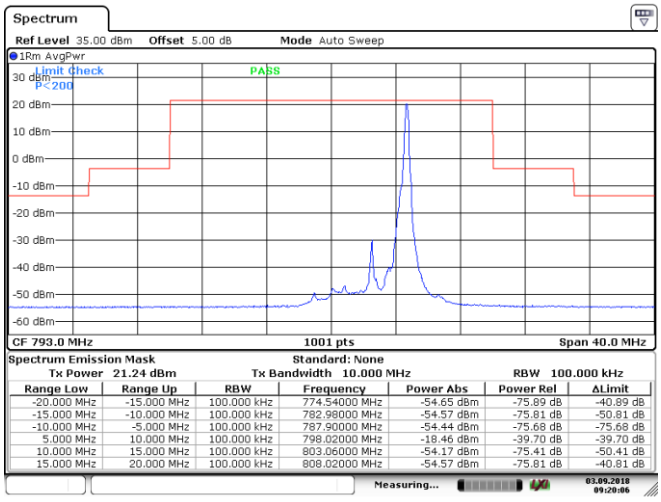
BAND 14_5MHz_16QAM_23355_1RB#24



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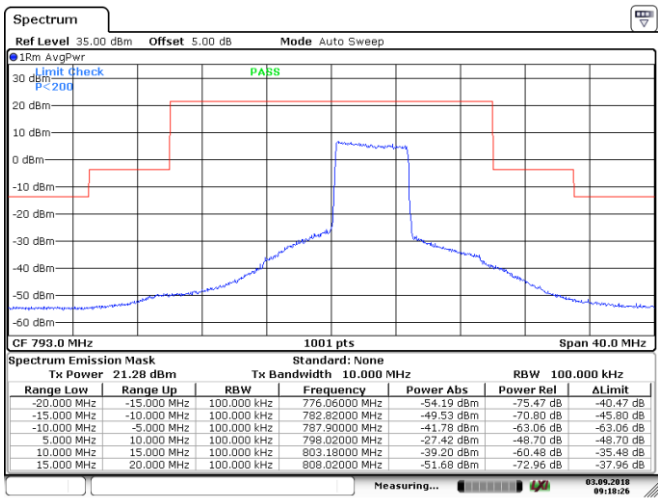

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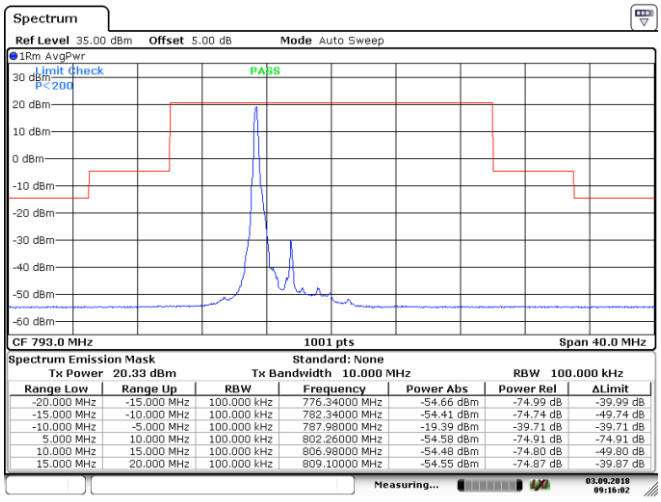
BAND 14_5MHz_64QAM_23305_1RB#0



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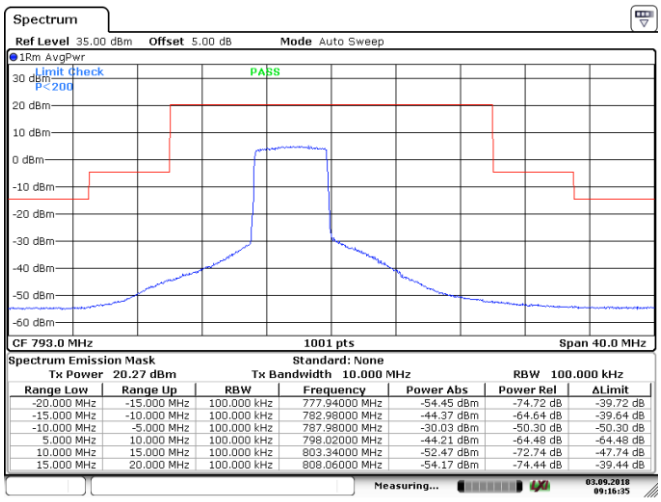

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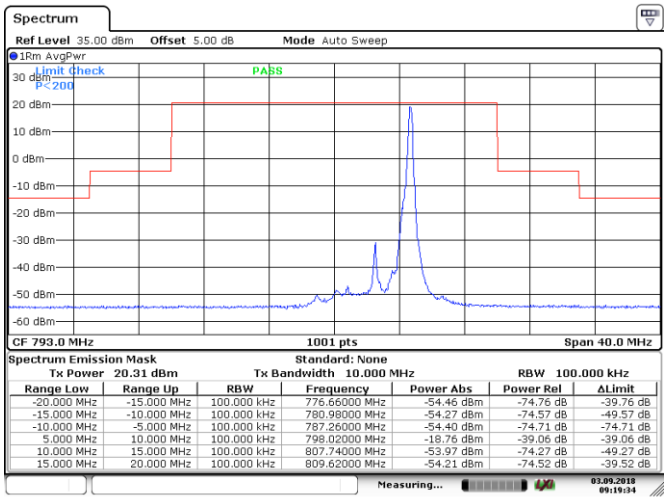

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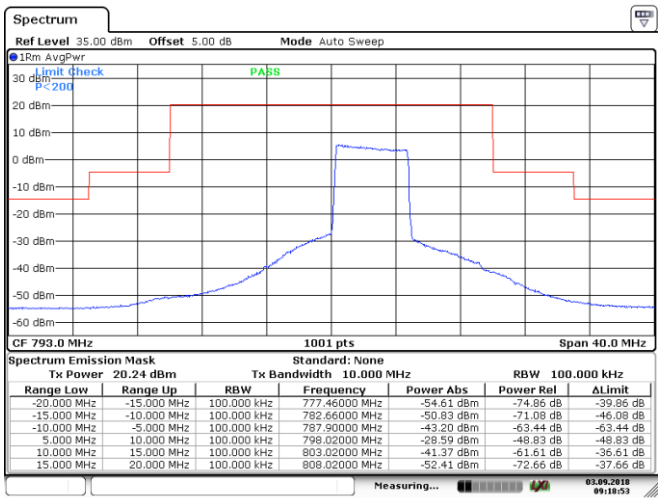

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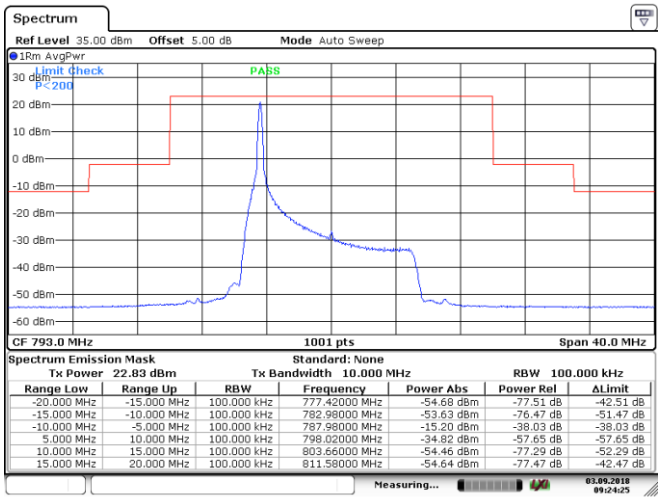
BAND 14_10MHz_QPSK_23330_1RB#0



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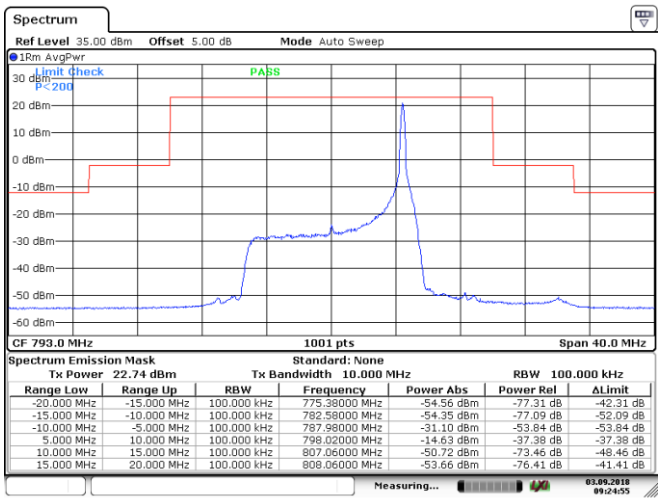
BAND 14_10MHz_QPSK_23330_1RB#49



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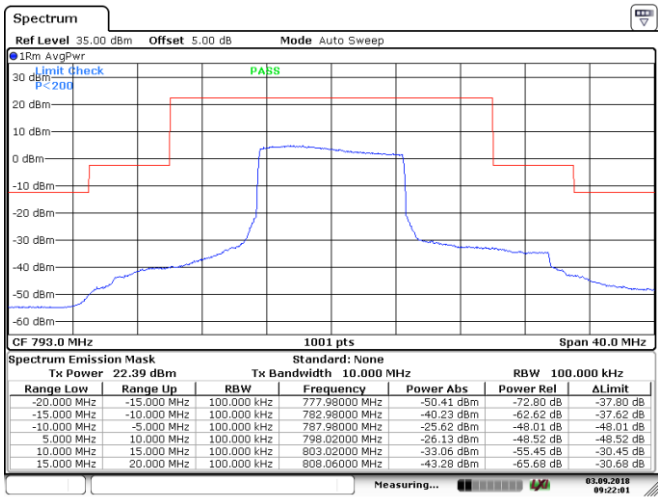
BAND 14_10MHz_QPSK_23330_50RB#0



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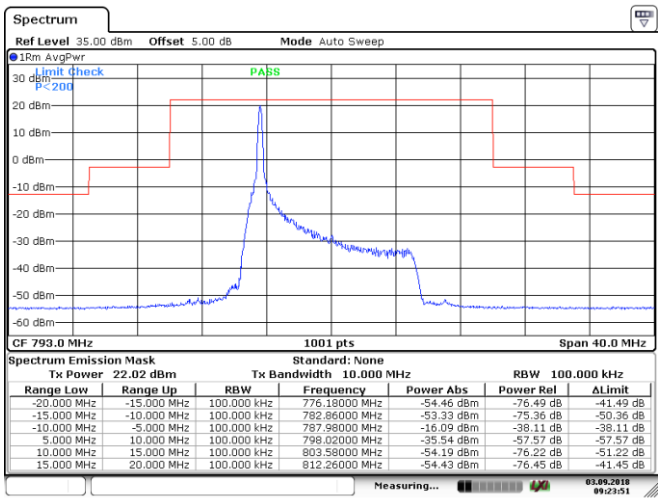

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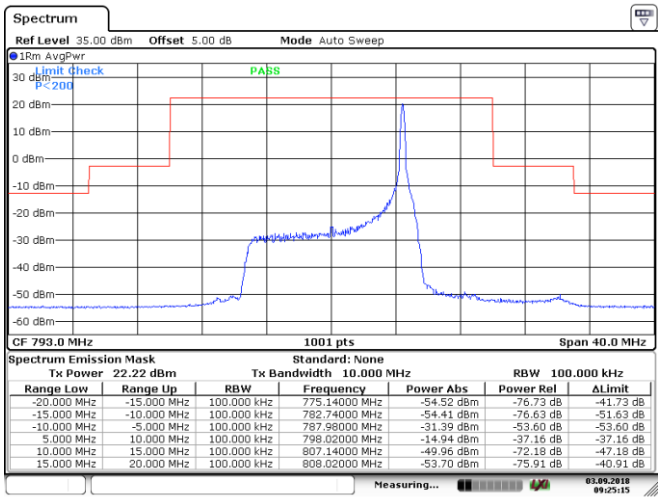
BAND 14_10MHz_16QAM_23330_1RB#49



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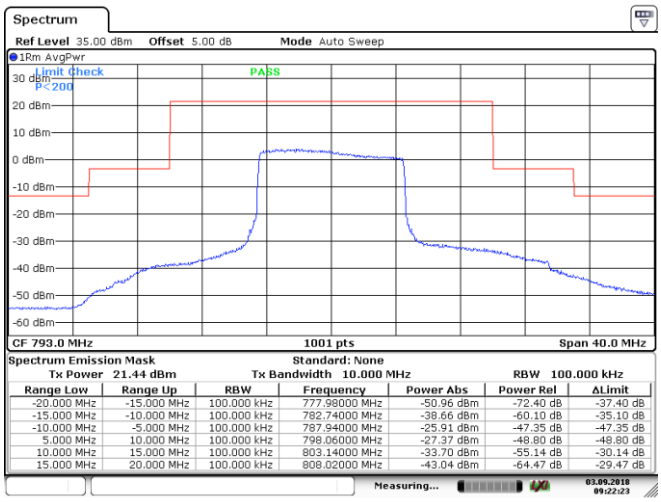

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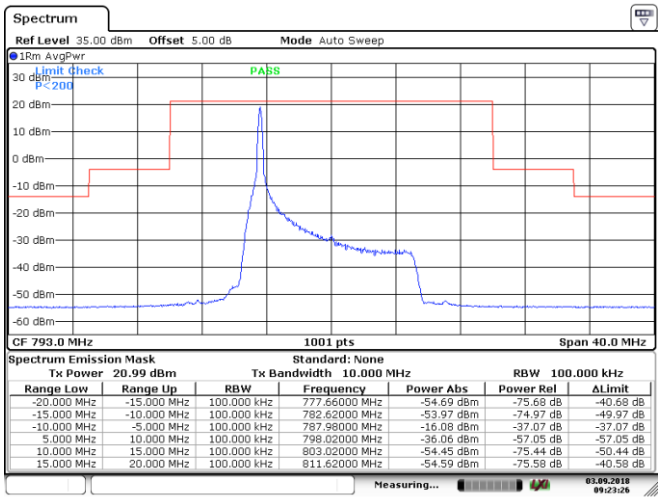
BAND 14_10MHz_64QAM_23330_1RB#0



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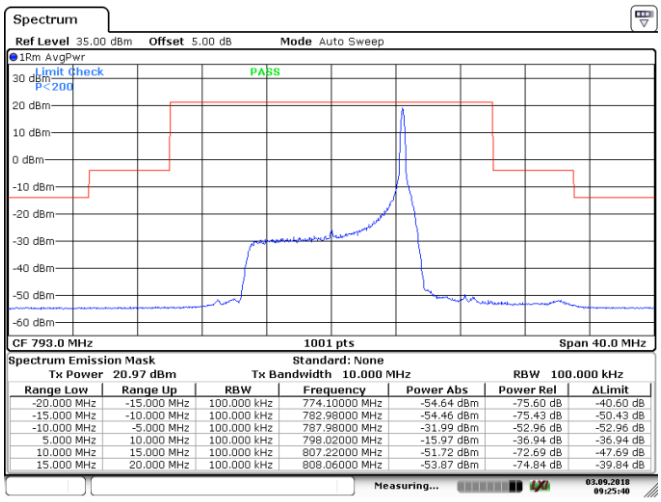
BAND 14_10MHz_64QAM_23330_1RB#49



Date: 3.SEP.2018 09:25:40

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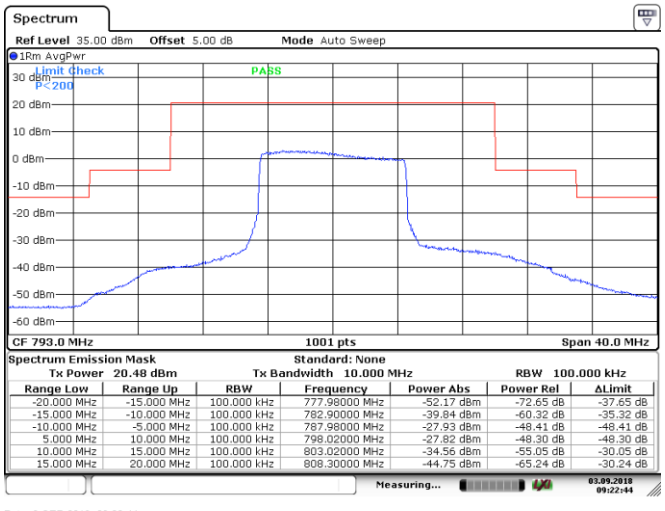
BAND 14_10MHz_64QAM_23330_50RB#0



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6. Band Edge Compliance

6.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band14	5MHz	QPSK	23305	1RB#0	-17.30	PASS
Band14	5MHz	QPSK	23305	25RB#0	-23.96	PASS
Band14	5MHz	QPSK	23355	1RB#24	-18.20	PASS
Band14	5MHz	QPSK	23355	25RB#0	-27.99	PASS
Band14	5MHz	16QAM	23305	1RB#0	-18.42	PASS
Band14	5MHz	16QAM	23305	25RB#0	-25.66	PASS
Band14	5MHz	16QAM	23355	1RB#24	-18.18	PASS
Band14	5MHz	16QAM	23355	25RB#0	-29.11	PASS
Band14	10MHz	QPSK	23330_Left	1RB#0	-14.42	PASS
Band14	10MHz	QPSK	23330_Right	1RB#49	-15.32	PASS
Band14	10MHz	QPSK	23330_Right	50RB#0	-26.46	PASS
Band14	10MHz	16QAM	23330_Left	1RB#0	-14.63	PASS
Band14	10MHz	16QAM	23330_Right	1RB#49	-16.49	PASS
Band14	10MHz	16QAM	23330_Right	50RB#0	-28.49	PASS

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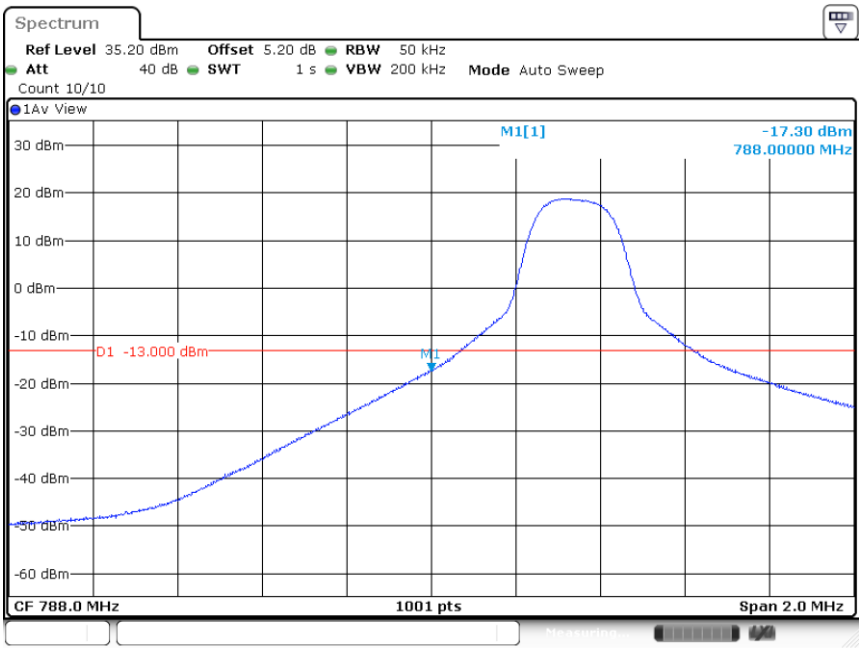
6.2. Test Plots

Band14-5MHz-QPSK-23305-1RB#0



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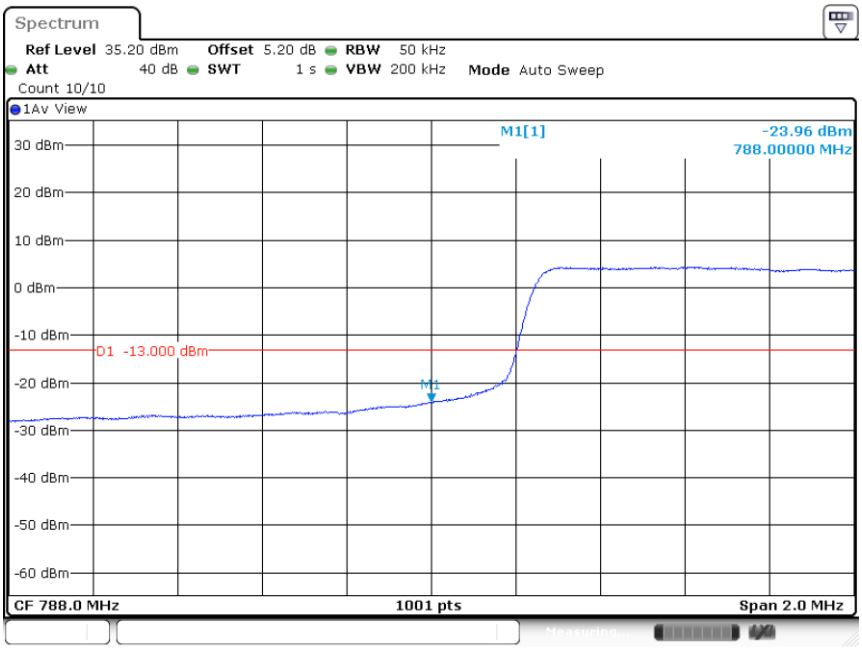

Date: 5.JAN.2021 09:08:09

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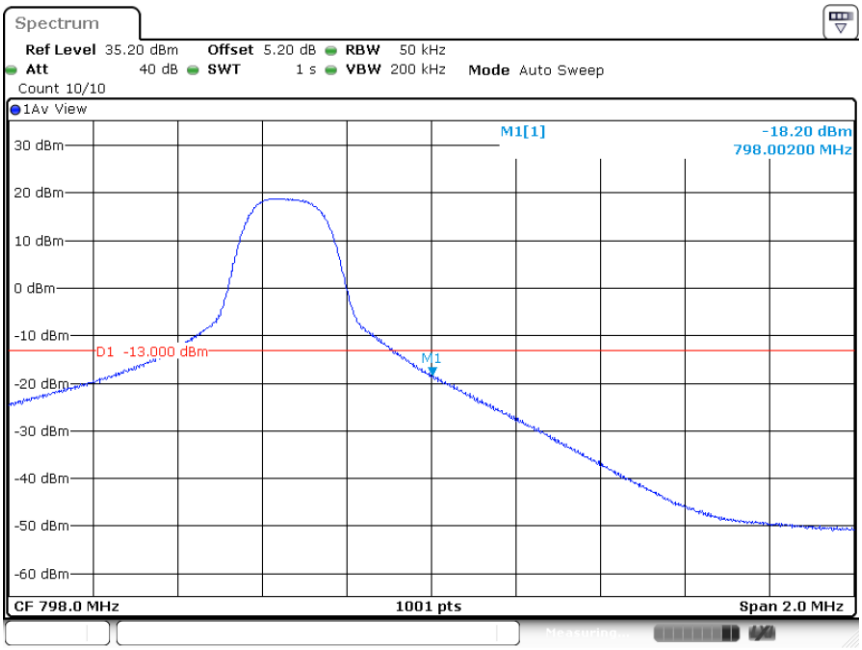

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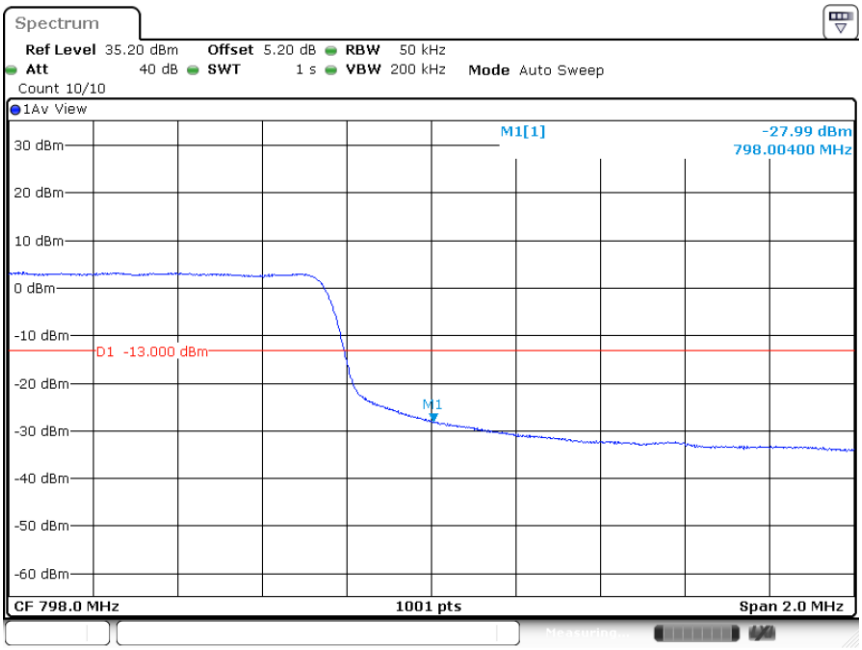

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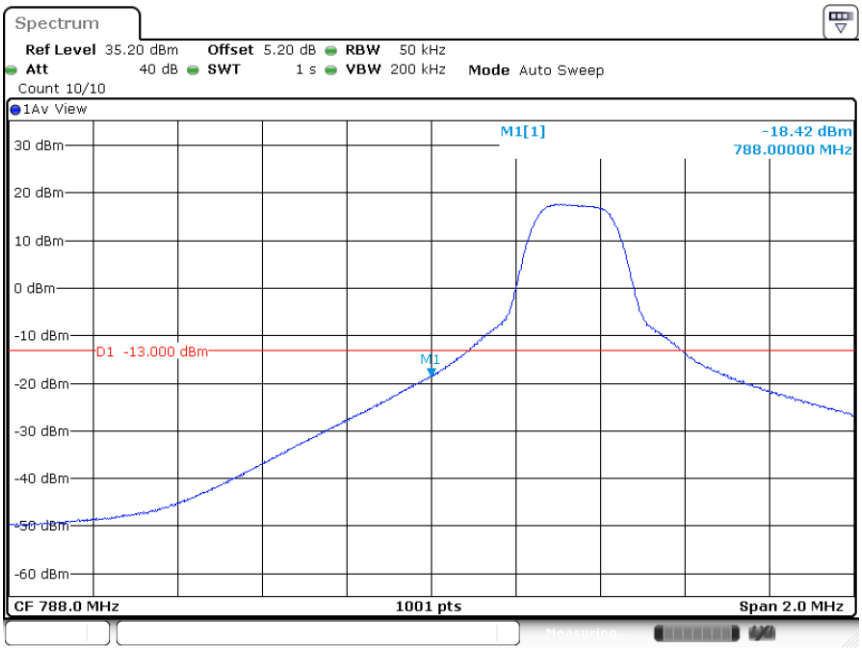

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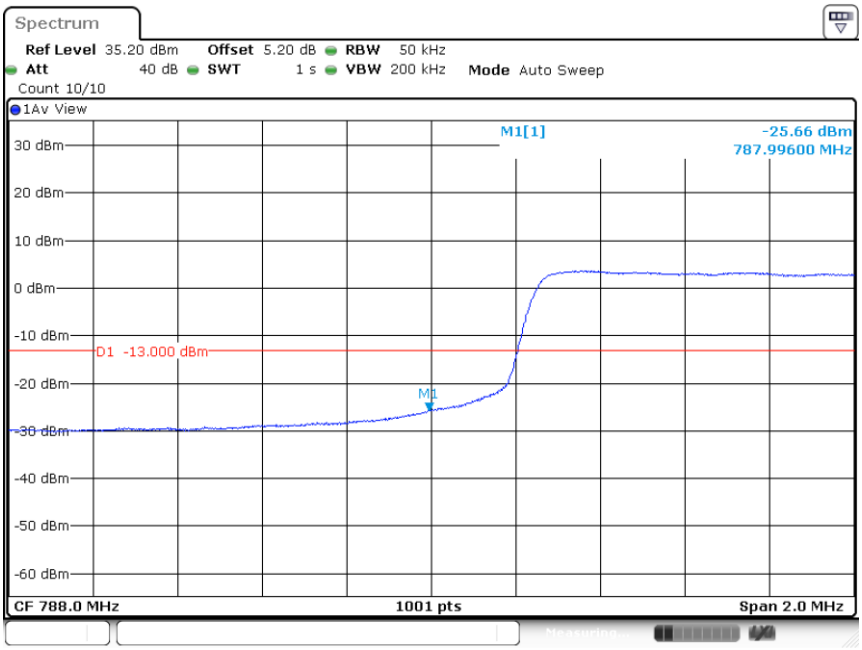

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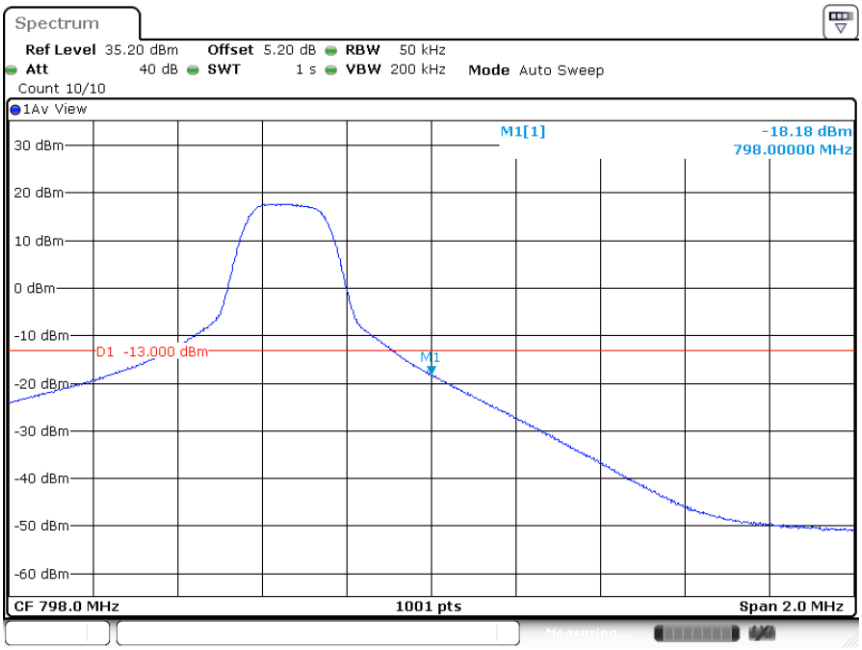
Band14-5MHz-16QAM-23355-1RB#24



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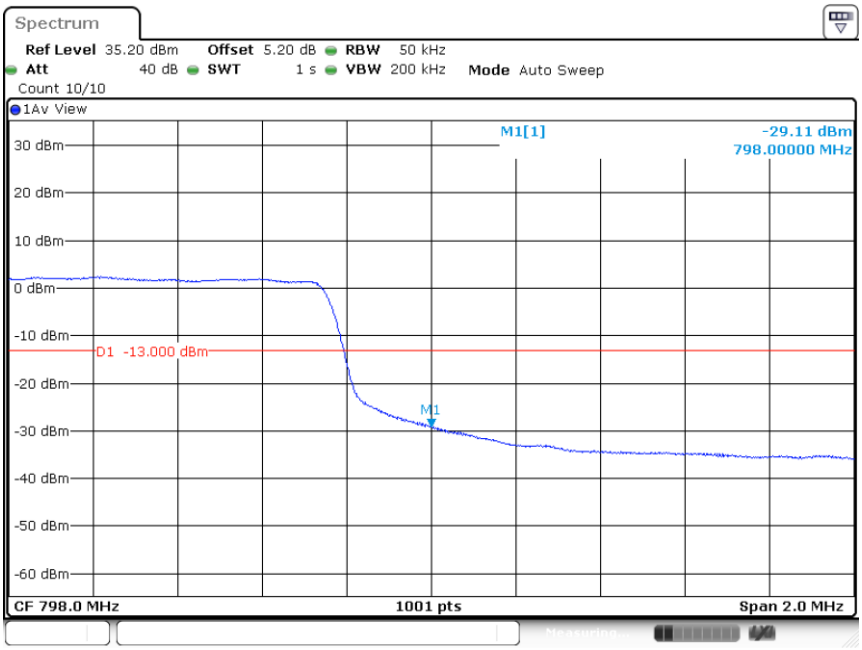

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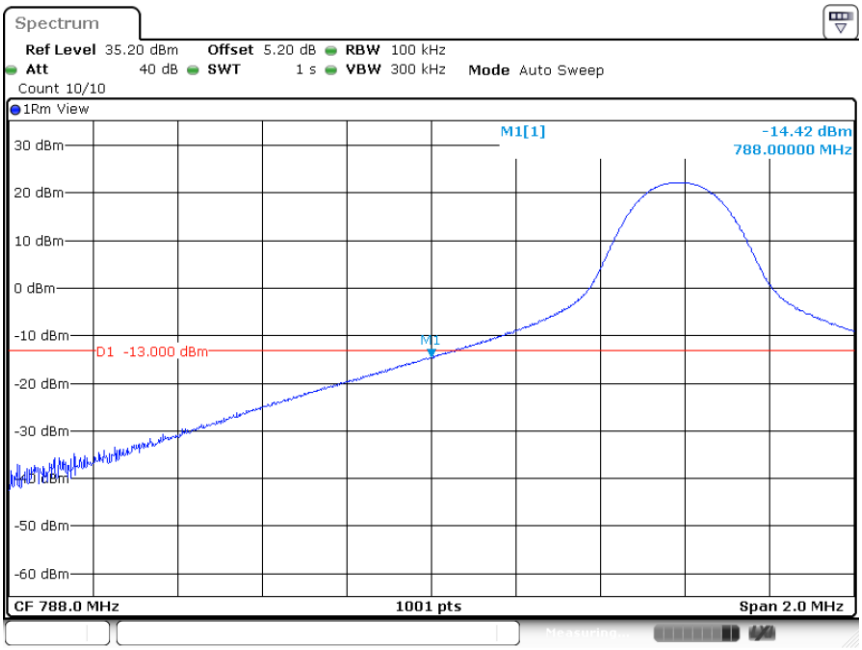
Band14-10MHz-QPSK-23330_Left-1RB#0



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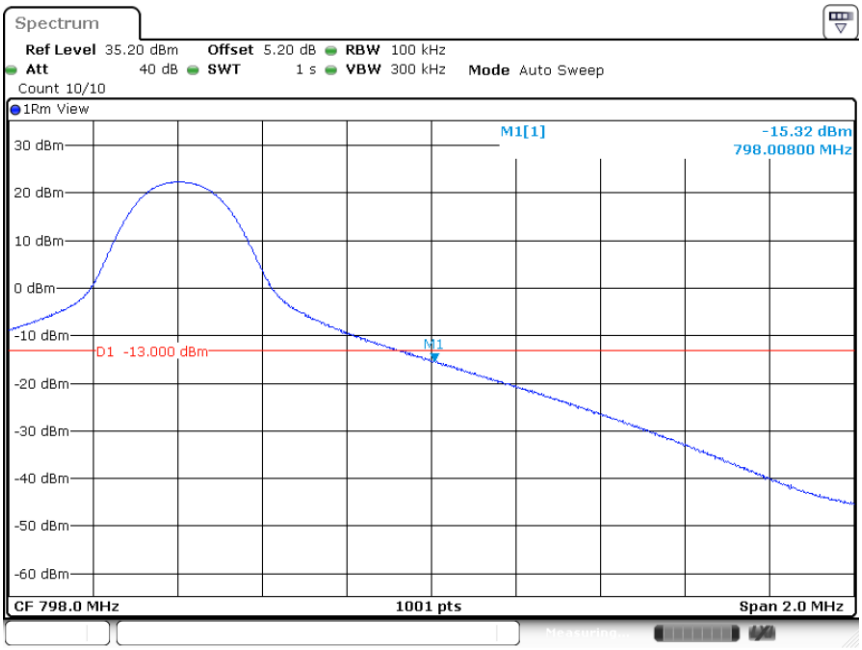
Band14-10MHz-QPSK-23330_Right-1RB#49



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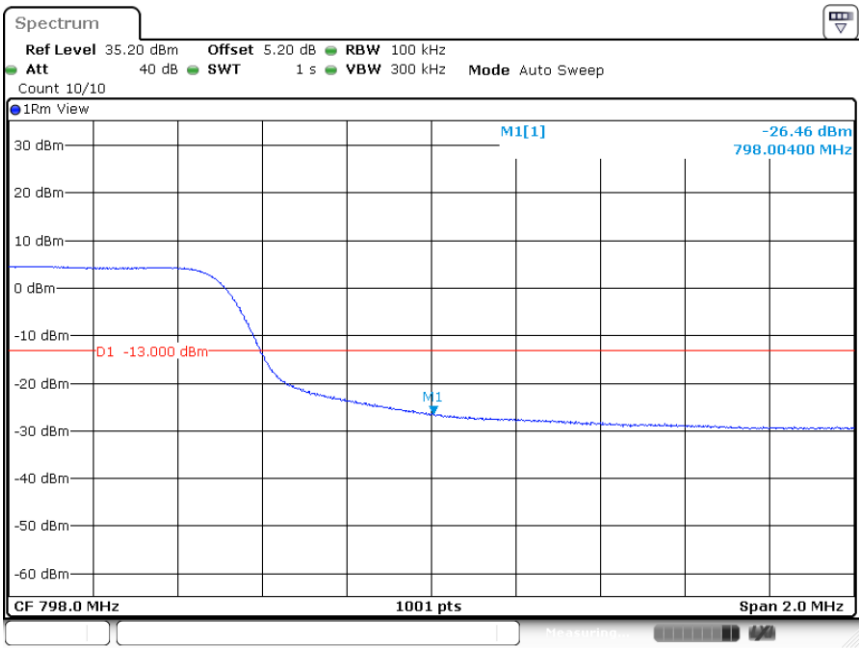
Band14-10MHz-QPSK-23330_Right-50RB#0



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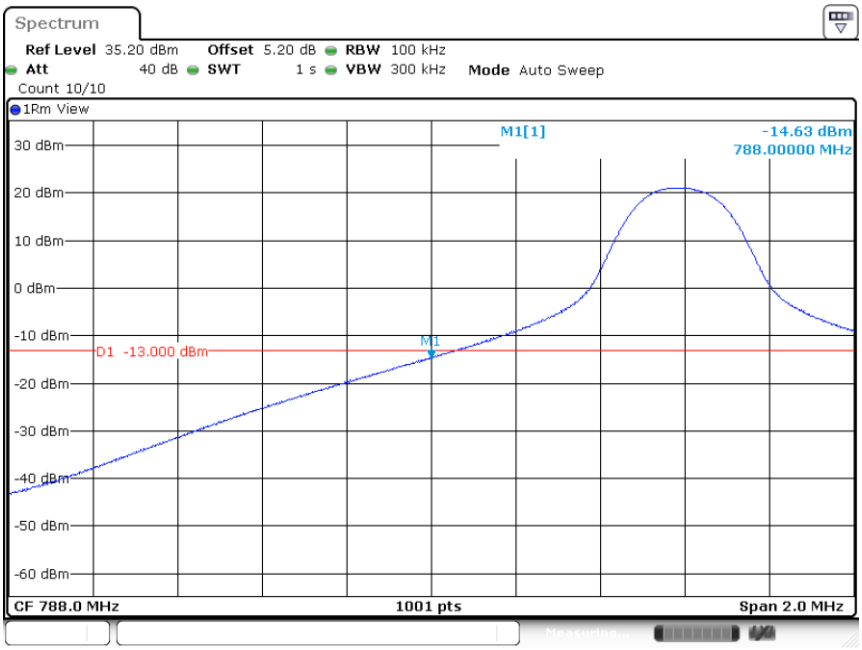

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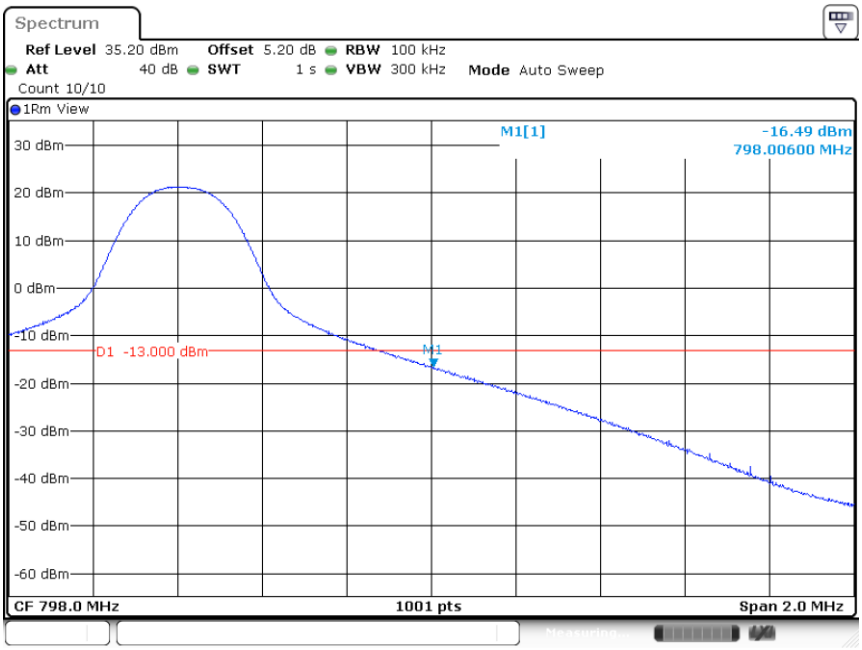
Band14-10MHz-16QAM-23330_Right-1RB#49



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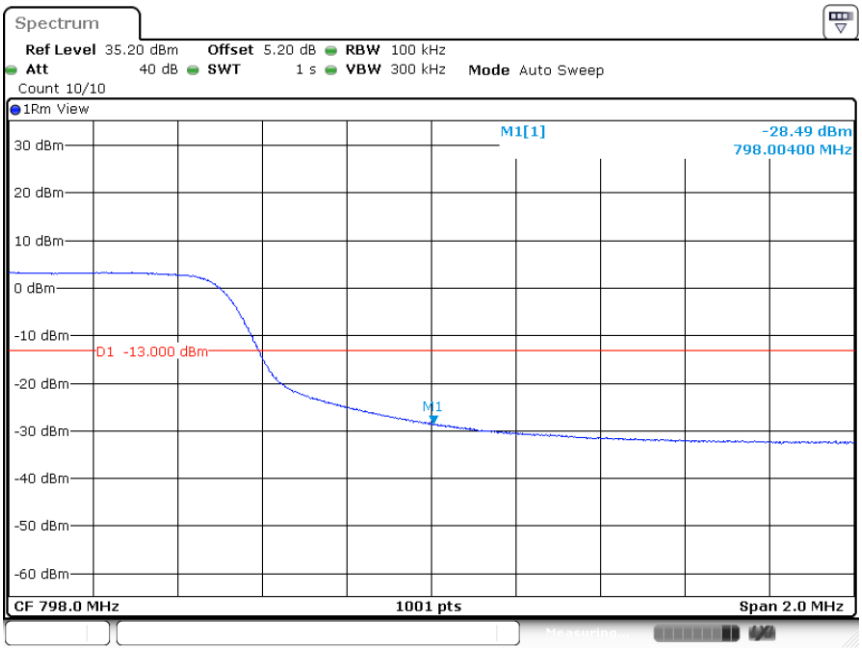

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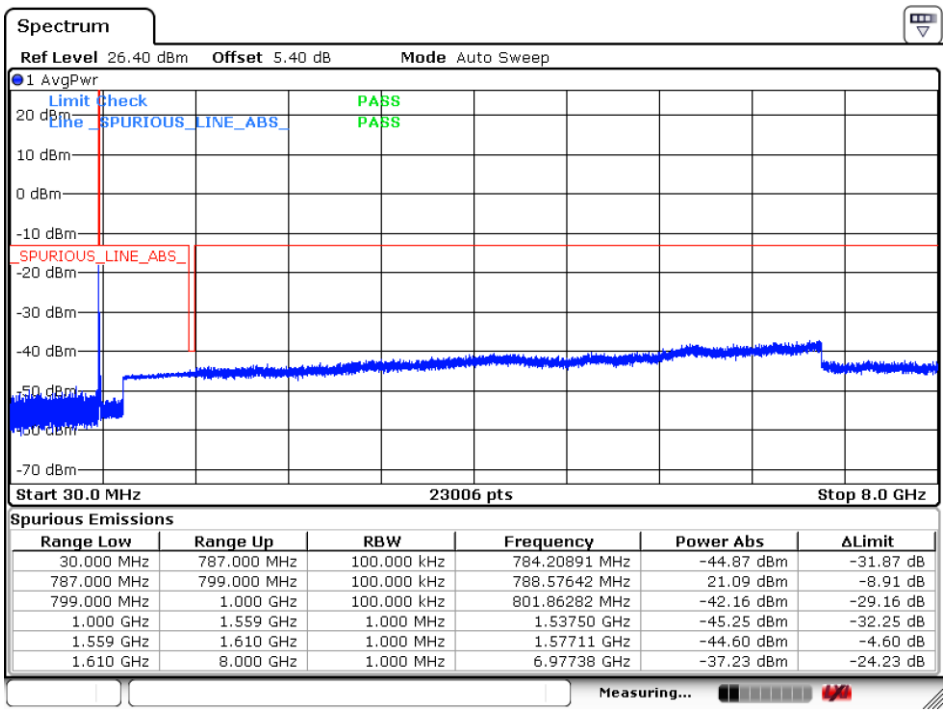
7. Spurious Emission at Antenna Terminal

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: only the worst case data displayed in this report.

7.1. Test Plots

Band14-10MHz-QPSK-23330



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	787.000 MHz	100.000 kHz	784.20891 MHz	-44.87 dBm	-31.87 dB
787.000 MHz	799.000 MHz	100.000 kHz	788.57642 MHz	21.09 dBm	-8.91 dB
799.000 MHz	1.000 GHz	100.000 kHz	801.86282 MHz	-42.16 dBm	-29.16 dB
1.000 GHz	1.559 GHz	1.000 MHz	1.53750 GHz	-45.25 dBm	-32.25 dB
1.559 GHz	1.610 GHz	1.000 MHz	1.57711 GHz	-44.60 dBm	-4.60 dB
1.610 GHz	8.000 GHz	1.000 MHz	6.97738 GHz	-37.23 dBm	-24.23 dB

Date: 5.JAN.2021 09:45:44

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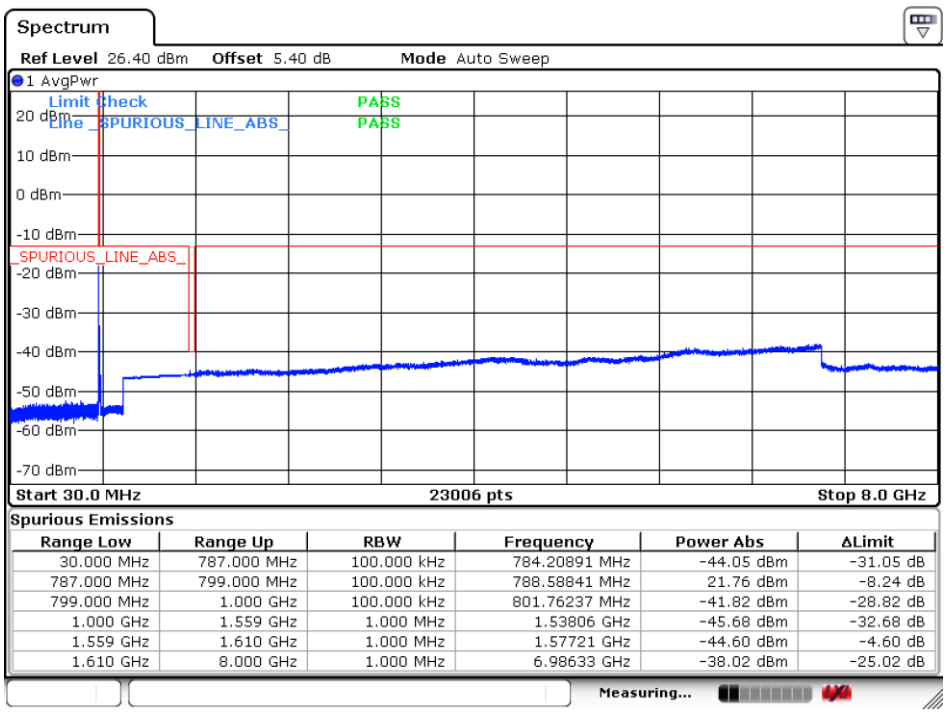
Band14-10MHz-16QAM-23330



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8. Field Strength of Spurious Radiation

8.1. Test Band = LTE_14 _TM1

8.1.1. Test Channel = Mid Channel

Suspected Data List							
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	42.8046	-63.44	-13.00	50.44	187	156	Horizontal
2	250.8800	-68.21	-13.00	55.21	165	201	Horizontal
3	626.3373	-63.68	-13.00	50.68	174	311	Horizontal
4	1577.3155	-60.07	-40.00	20.07	166	112	Horizontal
5	2695.1390	-55.68	-13.00	42.68	184	173	Horizontal
6	9536.3015	-54.08	-13.00	41.08	196	178	Horizontal

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8.2. Test Band = LTE_14 _TM1

8.2.1. Test Channel = Mid Channel

Suspected Data List							
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	50.2740	-71.35	-13.00	58.35	174	352	Vertical
2	112.0176	-64.68	-13.00	51.68	169	75	Vertical
3	608.9734	-63.44	-13.00	50.44	175	29	Vertical
4	1577.3155	-58.07	-40.00	18.07	254	158	Vertical
5	2688.3377	-56.86	-13.00	43.86	262	35	Vertical
6	9302.4921	-54.22	-13.00	41.22	281	219	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.

检验检测专用章 Inspection & Testing Services
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Laboratory

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9. Frequency Stability

9.1. Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band14	10MHz	QPSK	23330	50RB#0	VL	NT	-3.20	-0.004035	±2.5	PASS
Band14	10MHz	QPSK	23330	50RB#0	VN	NT	-8.60	-0.010845	±2.5	PASS
Band14	10MHz	QPSK	23330	50RB#0	VH	NT	-7.70	-0.009710	±2.5	PASS
Band14	10MHz	16QAM	23330	50RB#0	VL	NT	-6.00	-0.007566	±2.5	PASS
Band14	10MHz	16QAM	23330	50RB#0	VN	NT	-10.80	-0.013619	±2.5	PASS
Band14	10MHz	16QAM	23330	50RB#0	VH	NT	-2.20	-0.002774	±2.5	PASS

9.2. Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band14	10MHz	QPSK	23330	50RB#0	NV	-30	-4.10	-0.005170	±2.5	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	-20	-2.10	-0.002648	±2.5	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	-10	-13.30	-0.016772	±2.5	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	0	-9.60	-0.012106	±2.5	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	10	-5.00	-0.006305	±2.5	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	20	-2.80	-0.003531	±2.5	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	30	-10.80	-0.013619	±2.5	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	40	-8.60	-0.010845	±2.5	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	50	-5.90	-0.007440	±2.5	PASS
Band14	10MHz	16QAM	23330	50RB#0	NV	-30	-6.30	-0.007945	±2.5	PASS
Band14	10MHz	16QAM	23330	50RB#0	NV	-20	-9.40	-0.011854	±2.5	PASS
Band14	10MHz	16QAM	23330	50RB#0	NV	-10	-9.70	-0.012232	±2.5	PASS
Band14	10MHz	16QAM	23330	50RB#0	NV	0	-6.30	-0.007945	±2.5	PASS
Band14	10MHz	16QAM	23330	50RB#0	NV	10	-8.20	-0.010340	±2.5	PASS
Band14	10MHz	16QAM	23330	50RB#0	NV	20	-4.20	-0.005296	±2.5	PASS
Band14	10MHz	16QAM	23330	50RB#0	NV	30	-4.60	-0.005801	±2.5	PASS
Band14	10MHz	16QAM	23330	50RB#0	NV	40	-2.20	-0.002774	±2.5	PASS
Band14	10MHz	16QAM	23330	50RB#0	NV	50	-10.00	-0.012610	±2.5	PASS

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