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Appendix B.7

LTE Band 14



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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band14	5MHz	QPSK	23305	1RB#0	23.82	18.57	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#12	24.06	18.81	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#24	23.80	18.55	34.77	PASS
Band14	5MHz	QPSK	23305	25RB#0	22.94	17.69	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#0	23.84	18.59	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#12	24.11	18.86	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#24	23.78	18.53	34.77	PASS
Band14	5MHz	QPSK	23330	25RB#0	22.93	17.68	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#0	23.82	18.57	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#12	24.13	18.88	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#24	23.77	18.52	34.77	PASS
Band14	5MHz	QPSK	23355	25RB#0	22.94	17.69	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#0	23.06	17.81	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#12	23.29	18.04	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#24	23.00	17.75	34.77	PASS
Band14	5MHz	16QAM	23305	25RB#0	21.97	16.72	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#0	22.98	17.73	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#12	23.34	18.09	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#24	23.09	17.84	34.77	PASS
Band14	5MHz	16QAM	23330	25RB#0	21.97	16.72	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#0	23.03	17.78	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#12	23.37	18.12	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#24	22.97	17.72	34.77	PASS
Band14	5MHz	16QAM	23355	25RB#0	21.99	16.74	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#0	21.98	16.73	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#12	22.30	17.05	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#24	21.99	16.74	34.77	PASS



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Band14	5MHz	64QAM	23305	25RB#0	20.98	15.73	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#0	22.07	16.82	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#12	22.29	17.04	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#24	22.02	16.77	34.77	PASS
Band14	5MHz	64QAM	23330	25RB#0	20.98	15.73	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#0	21.98	16.73	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#12	22.24	16.99	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#24	21.99	16.74	34.77	PASS
Band14	5MHz	64QAM	23355	25RB#0	20.97	15.72	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#0	23.45	18.20	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#24	23.75	18.50	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#49	23.19	17.94	34.77	PASS
Band14	10MHz	QPSK	23330	50RB#0	22.73	17.48	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#0	22.96	17.71	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#24	23.05	17.80	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#49	22.36	17.11	34.77	PASS
Band14	10MHz	16QAM	23330	50RB#0	21.76	16.51	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#0	21.90	16.65	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#24	21.84	16.59	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#49	21.37	16.12	34.77	PASS
Band14	10MHz	64QAM	23330	50RB#0	20.68	15.43	34.77	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band14	10MHz	QPSK	23330	50RB#0	5.20	13	PASS
Band14	10MHz	16QAM	23330	50RB#0	5.90	13	PASS
Band14	10MHz	64QAM	23330	50RB#0	6.24	13	PASS



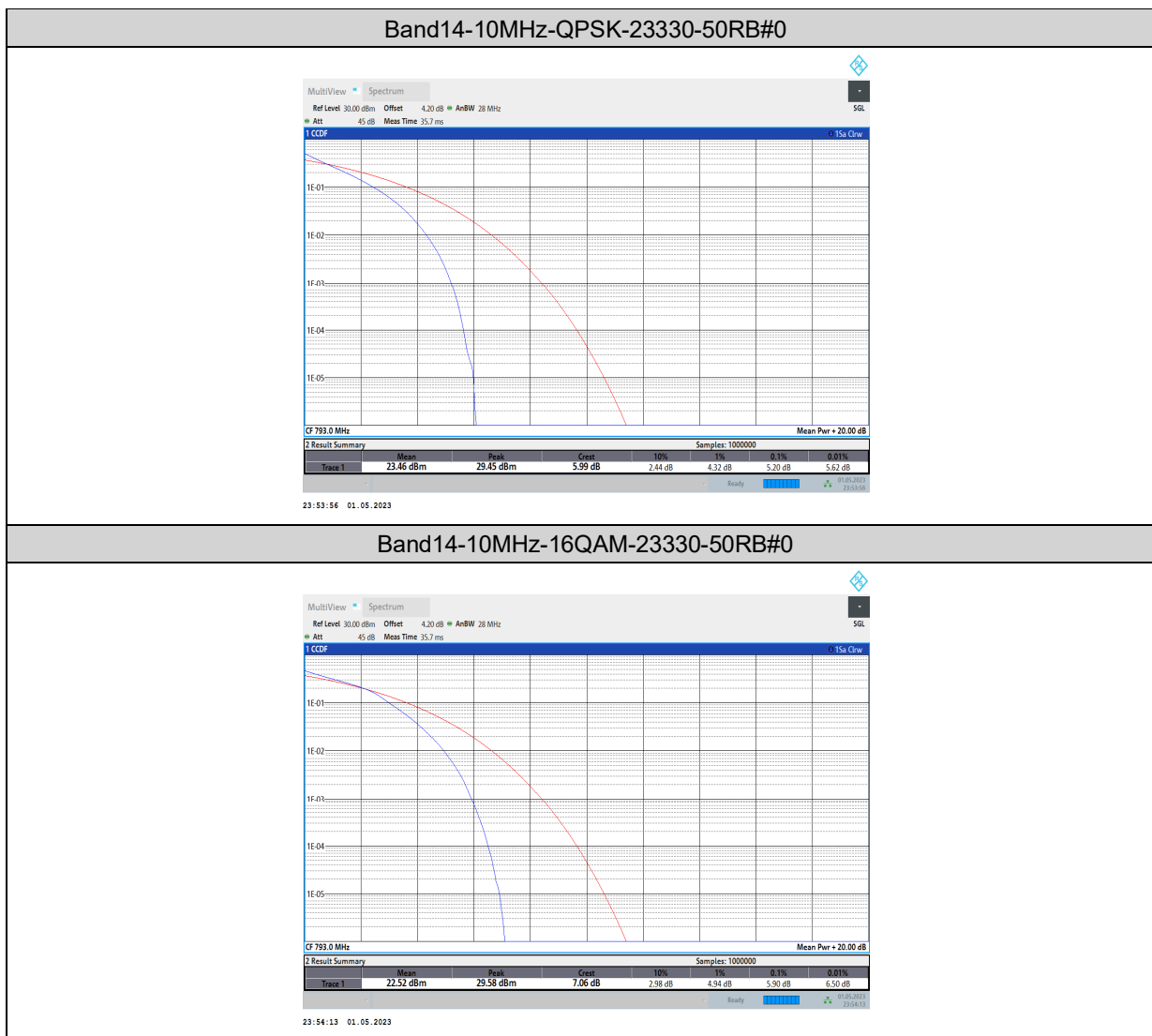
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Test Graphs



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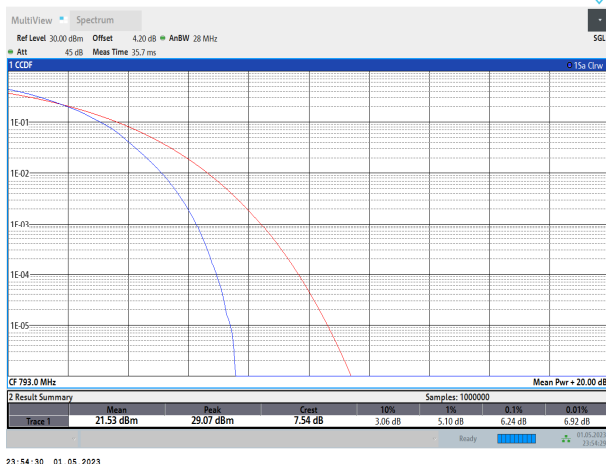
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Band14-10MHz-64QAM-23330-50RB#0



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Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band14	10MHz	QPSK	23330	50RB#0	PASS	PASS
Band14	10MHz	16QAM	23330	50RB#0	PASS	PASS
Band14	10MHz	64QAM	23330	50RB#0	PASS	PASS



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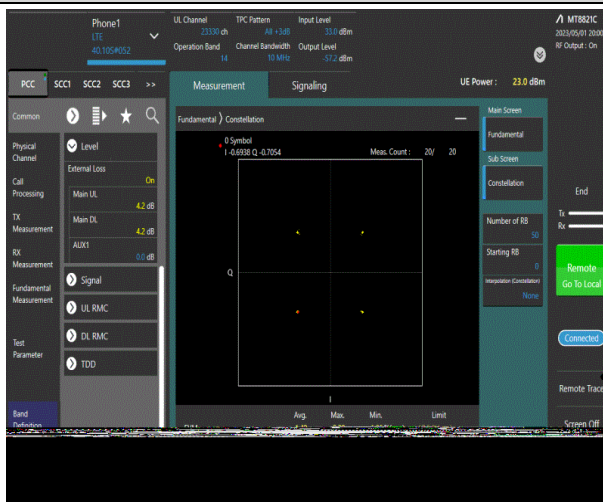
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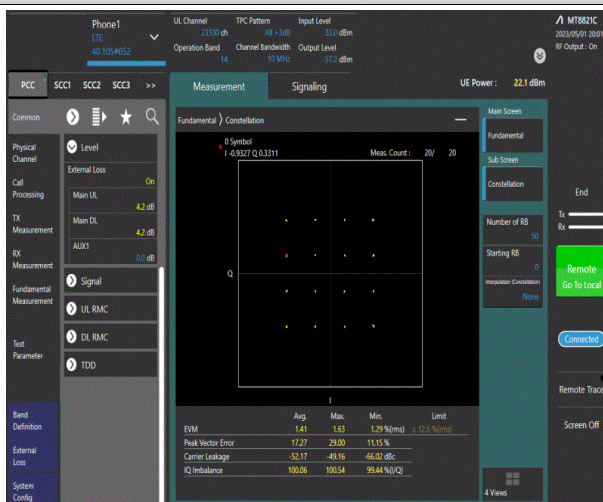
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Test Graphs

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



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

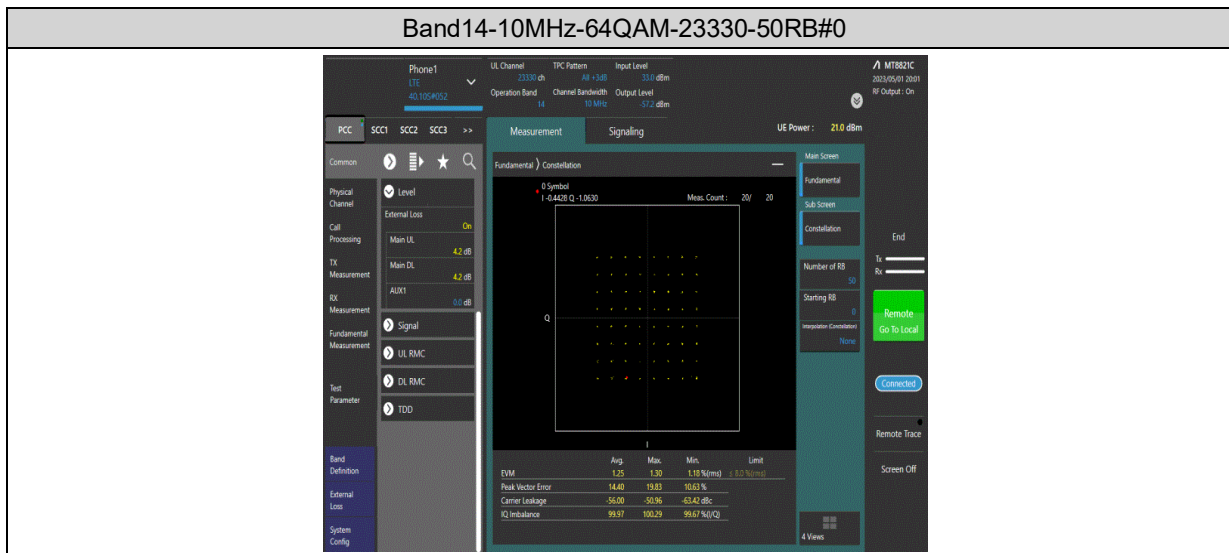


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Band14-10MHz-64QAM-23330-50RB#0



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band14	5MHz	QPSK	23305	25RB#0	4.473	4.98	PASS
Band14	5MHz	QPSK	23330	25RB#0	4.475	4.85	PASS
Band14	5MHz	QPSK	23355	25RB#0	4.487	4.89	PASS
Band14	5MHz	16QAM	23305	25RB#0	4.477	5.04	PASS
Band14	5MHz	16QAM	23330	25RB#0	4.468	4.91	PASS
Band14	5MHz	16QAM	23355	25RB#0	4.473	4.97	PASS
Band14	5MHz	64QAM	23305	25RB#0	4.475	4.86	PASS
Band14	5MHz	64QAM	23330	25RB#0	4.478	4.93	PASS
Band14	5MHz	64QAM	23355	25RB#0	4.480	4.95	PASS
Band14	10MHz	QPSK	23330	50RB#0	8.943	9.80	PASS
Band14	10MHz	16QAM	23330	50RB#0	8.939	9.70	PASS
Band14	10MHz	64QAM	23330	50RB#0	8.948	9.80	PASS



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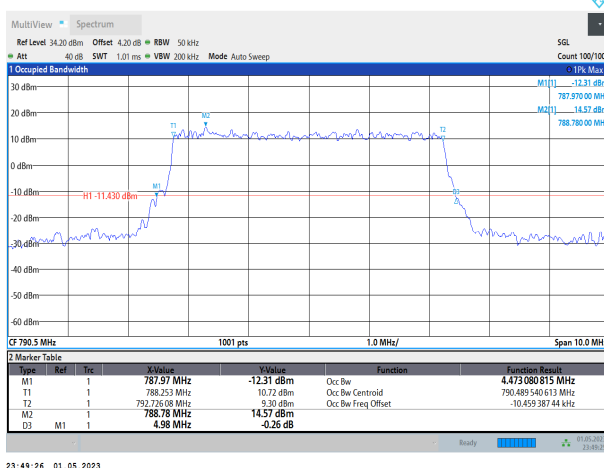
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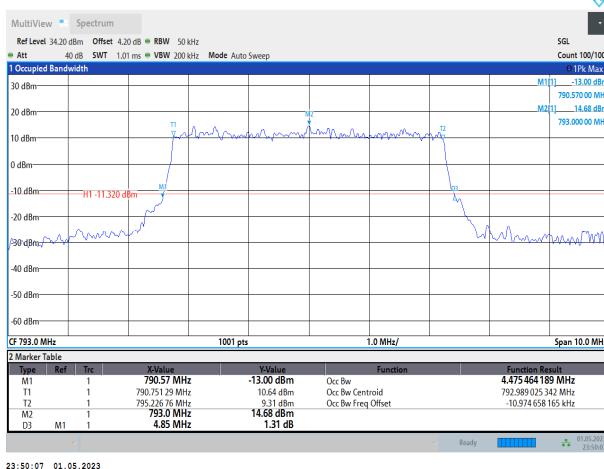
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Test Graphs

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



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

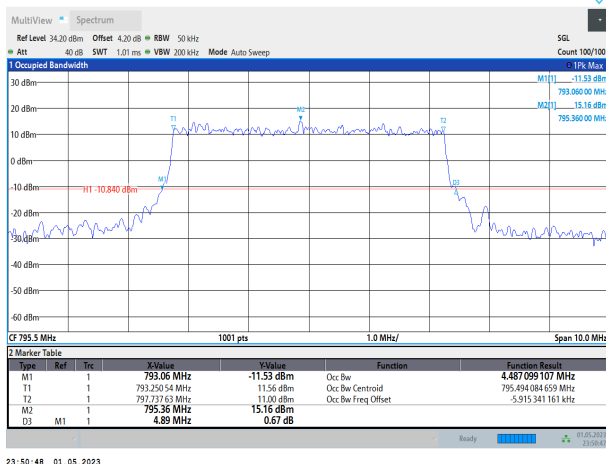


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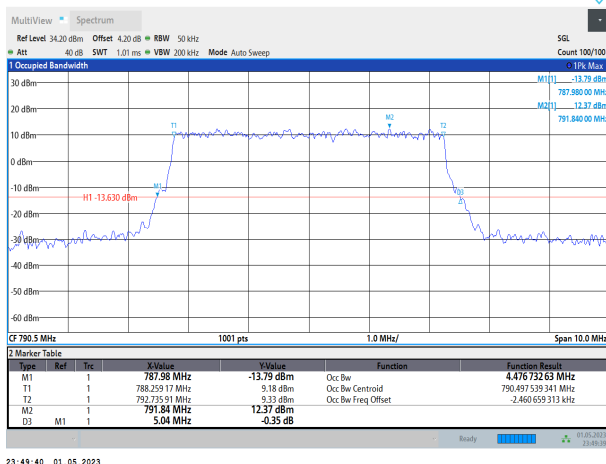
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Band14-5MHz-QPSK-23355-25RB#0



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



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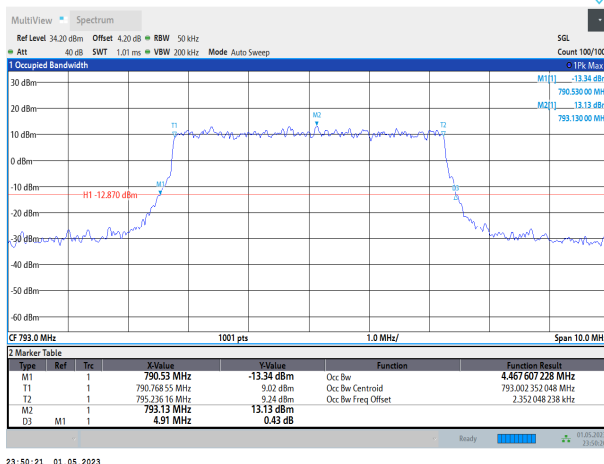
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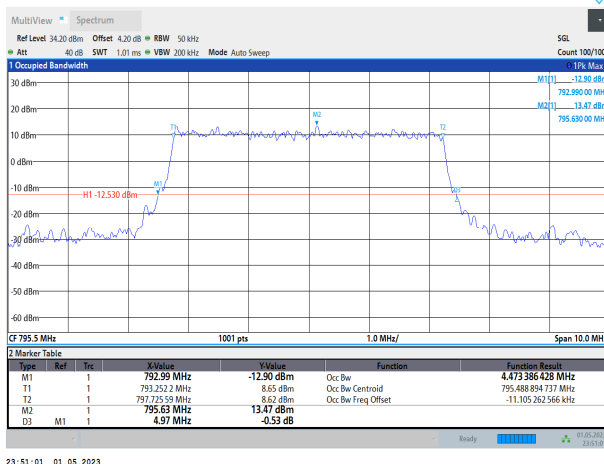
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Band14-5MHz-16QAM-23330-25RB#0



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

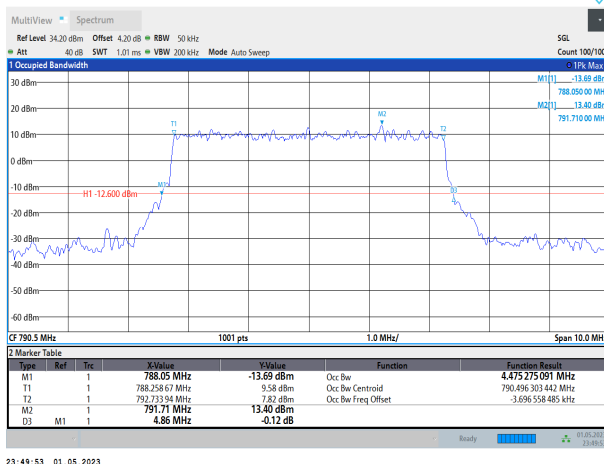


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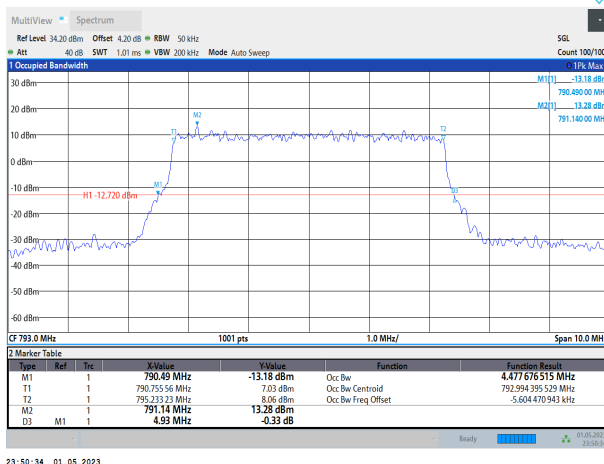
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Band14-5MHz-64QAM-23305-25RB#0



Band14-5MHz-64QAM-23330-25RB#0



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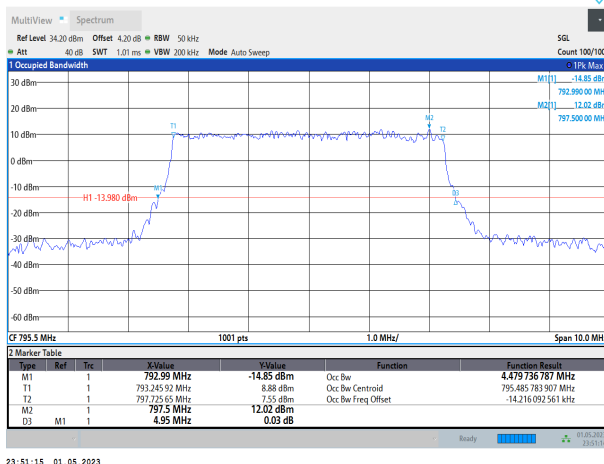
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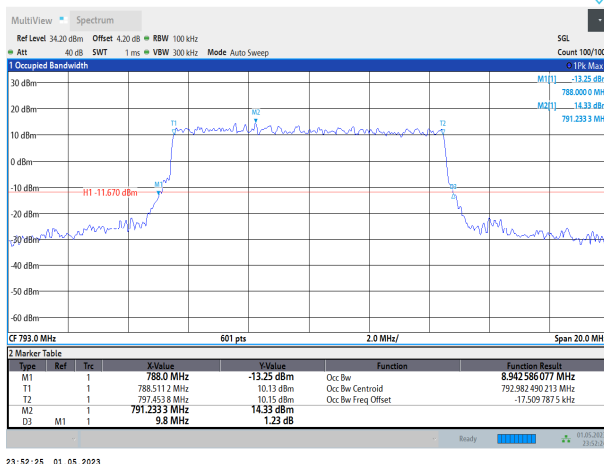
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Band14-5MHz-64QAM-23355-25RB#0



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

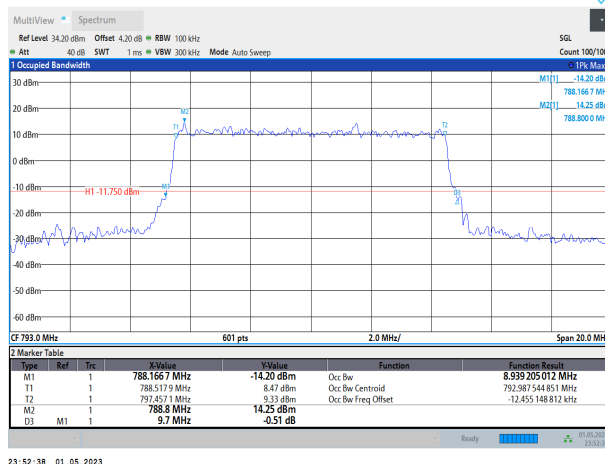


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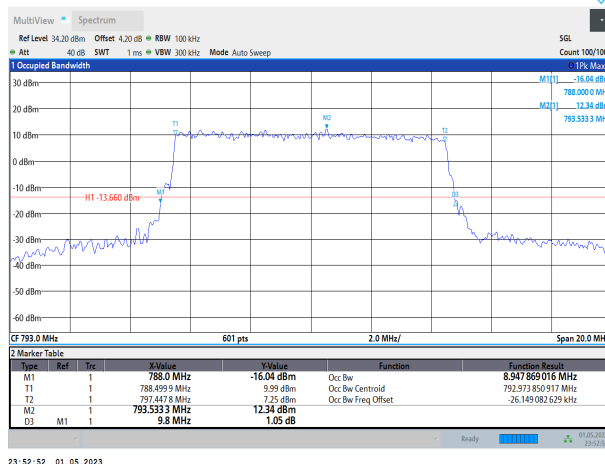
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Band14-10MHz-16QAM-23330-50RB#0



Band14-10MHz-64QAM-23330-50RB#0



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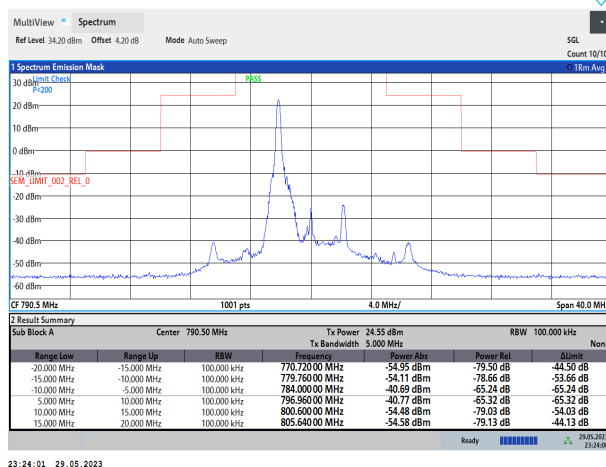
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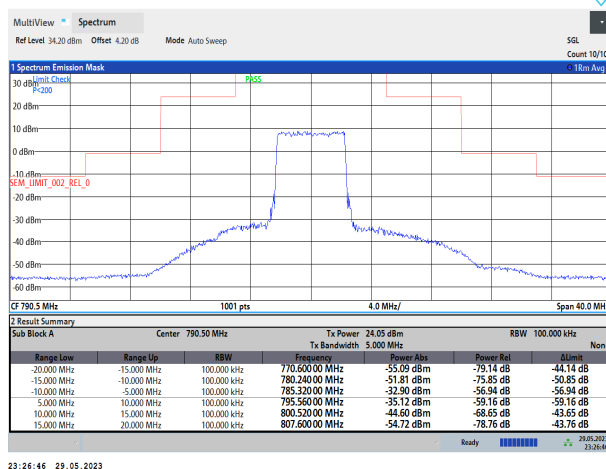
Emission Mask

Test Graphs

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



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

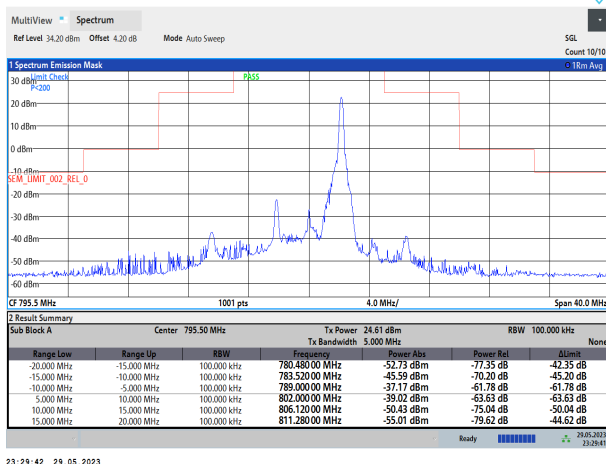


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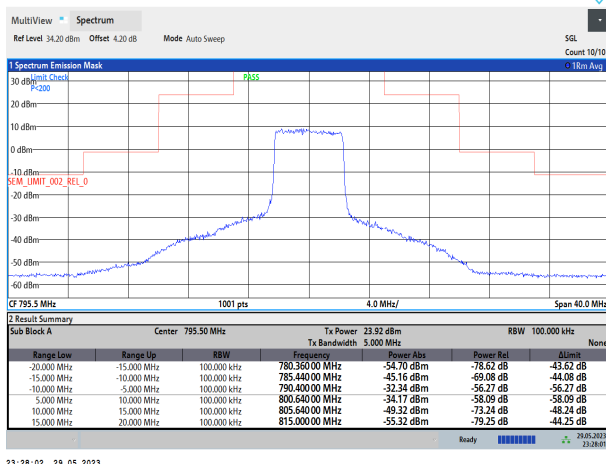
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Band14-5MHz-QPSK-23355-1RB#24



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



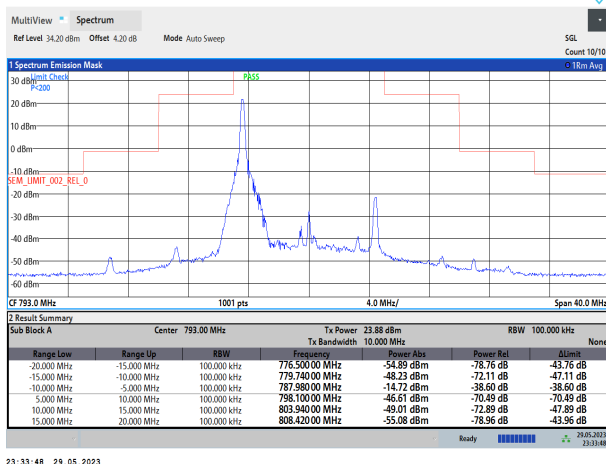


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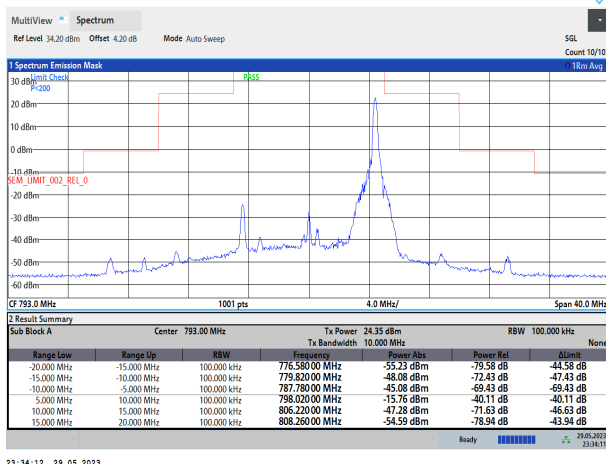
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Band14-10MHz-QPSK-23330-1RB#0



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



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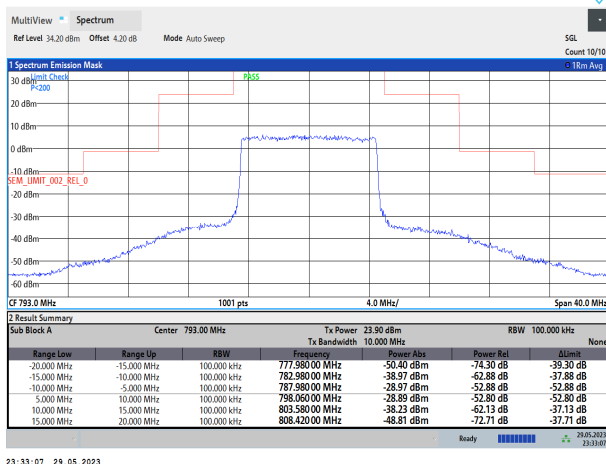
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Band14-10MHz-QPSK-23330-50RB#0



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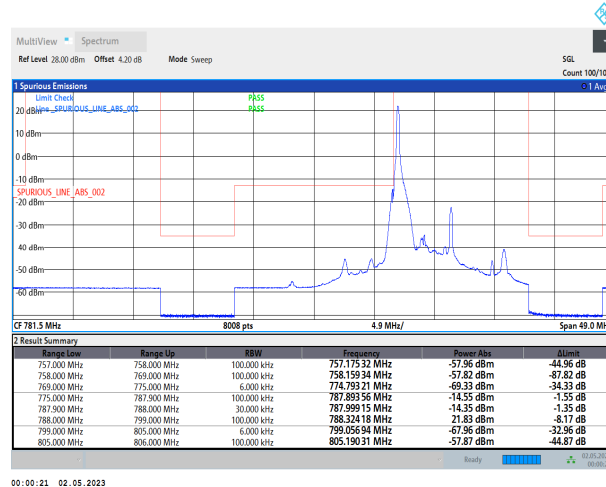
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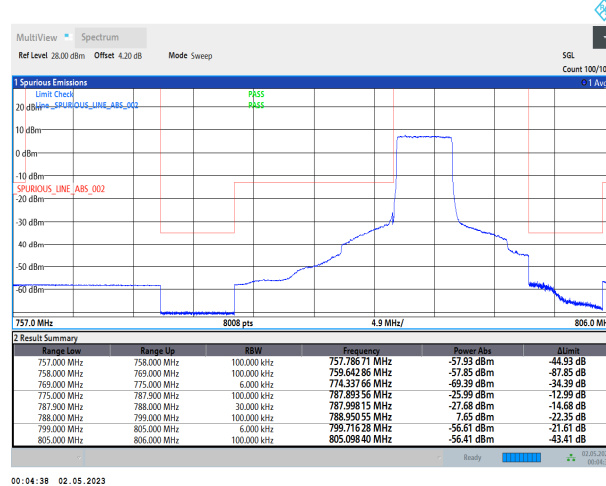
Band Edge

Test Graphs

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



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

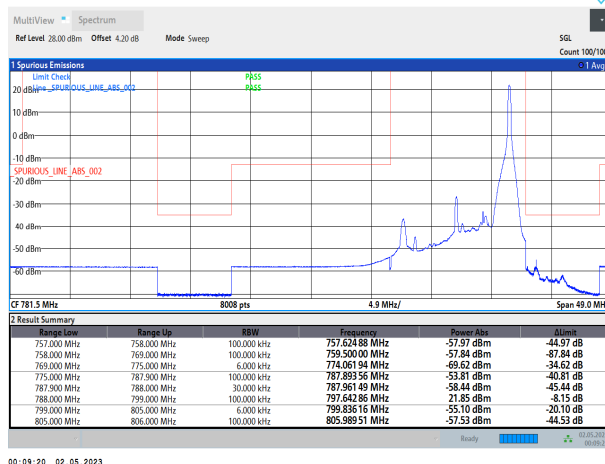


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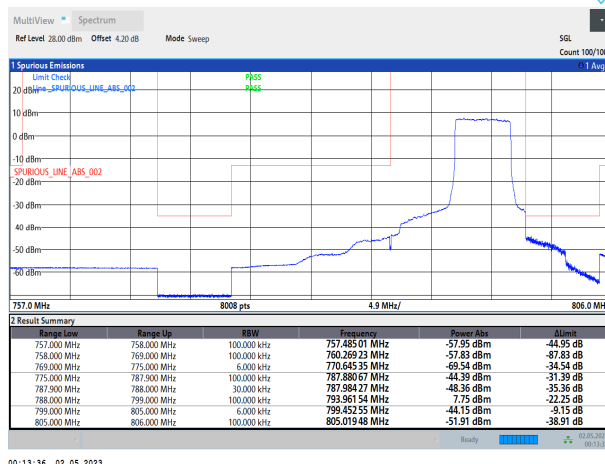
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Band14-5MHz-QPSK-23355-1RB#24



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

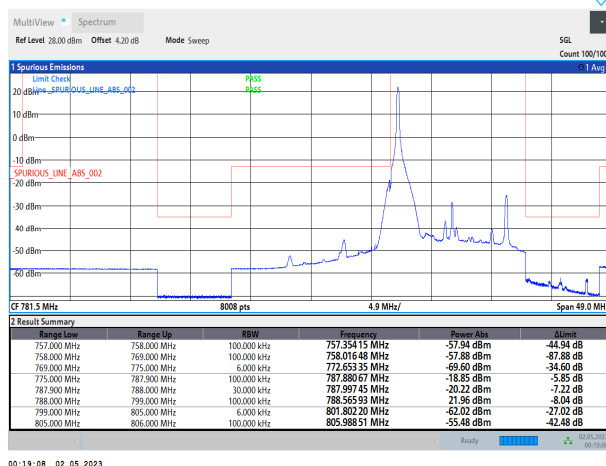


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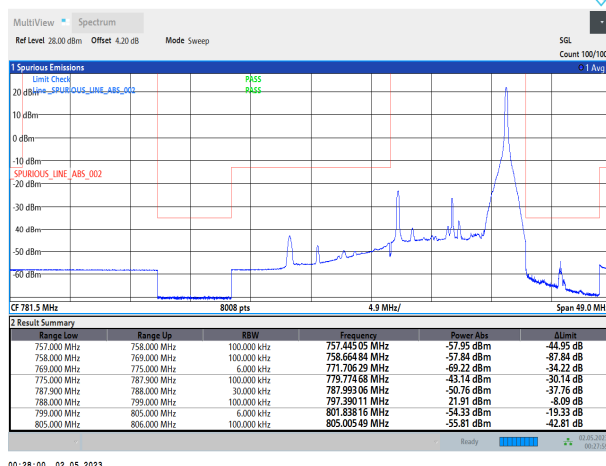
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Band14-10MHz-QPSK-23330-1RB#0



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

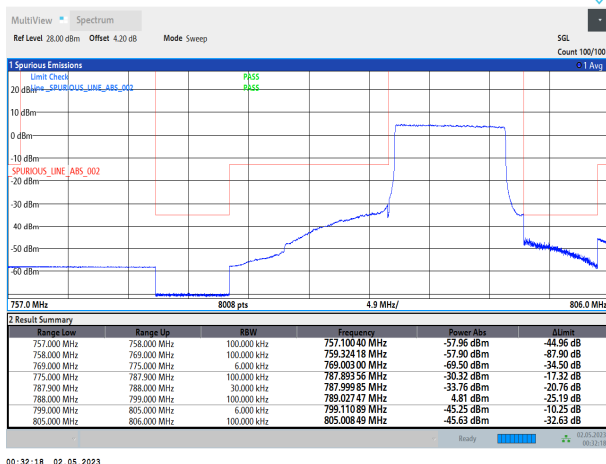


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Band14-10MHz-QPSK-23330-50RB#0



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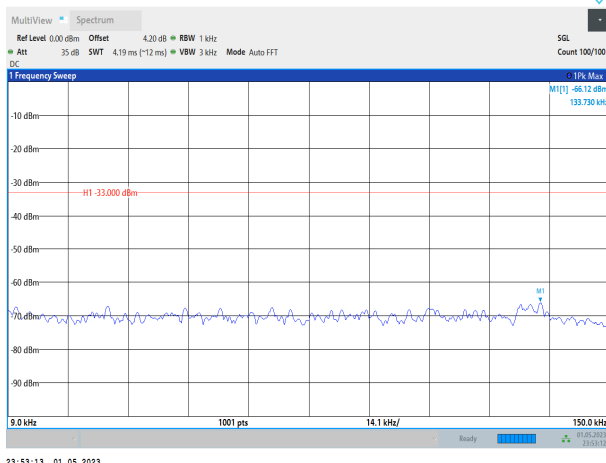
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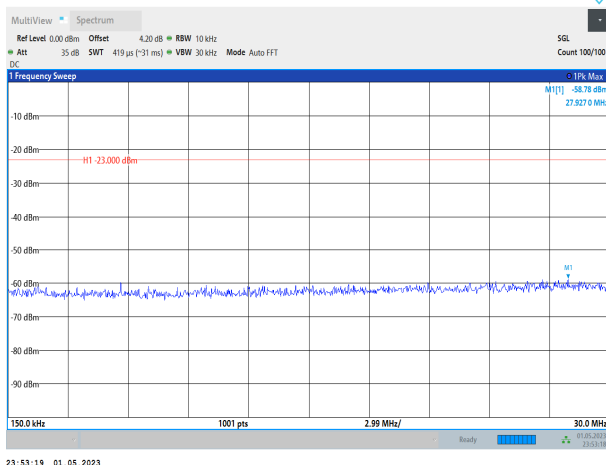
Conducted Spurious Emission

Test Graphs

Band14-10MHz-QPSK-23330-1RB#0-Range1:0.009~0.15MHz



Band14-10MHz-QPSK-23330-1RB#0-Range2:0.15~30MHz



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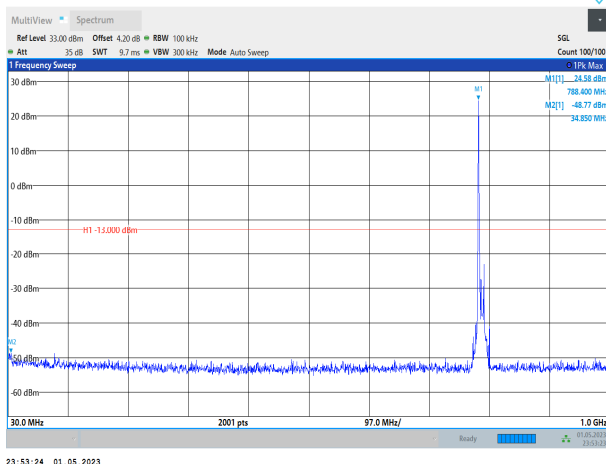
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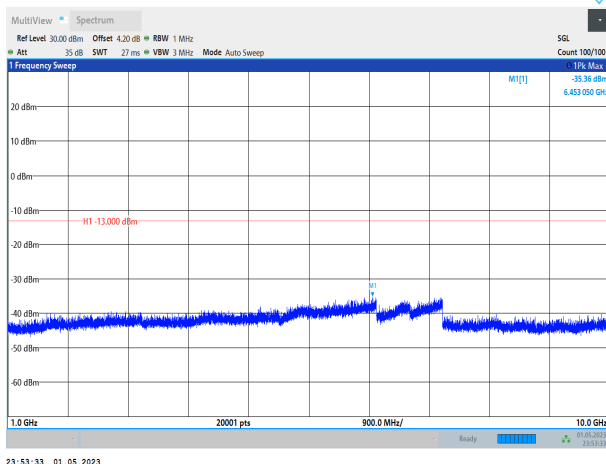
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Band14-10MHz-QPSK-23330-1RB#0-Range3:30~1000MHz



Band14-10MHz-QPSK-23330-1RB#0-Range4:1000~10000MHz



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Field Strength of Spurious Radiation

Test Band = LTE B14 10M_ TM1

Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1577.1429	62.09	-48.29	25.38	-56.08	-40.00	16.08	118	81	Horizontal
2	2365.7143	46.59	-47.47	27.42	-68.71	-13.00	55.71	145	255	Horizontal
3	3154.3600	43.56	-46.50	29.61	-68.59	-13.00	55.59	132	0	Horizontal
4	3942.9500	42.92	-46.22	30.67	-67.89	-13.00	54.89	165	134	Horizontal
5	4731.5400	41.84	-45.75	32.11	-67.06	-13.00	54.06	129	281	Horizontal
6	5520.1300	41.03	-45.17	32.93	-66.46	-13.00	53.46	221	255	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1577.1429	66.06	-48.29	25.38	-52.11	-40.00	12.11	158	4	Vertical
2	2365.7143	48.22	-47.47	27.42	-67.08	-13.00	54.08	145	343	Vertical
3	3154.3600	43.14	-46.50	29.61	-69.01	-13.00	56.01	259	360	Vertical
4	3942.9500	42.33	-46.22	30.67	-68.48	-13.00	55.48	163	4	Vertical
5	4731.5400	42.11	-45.75	32.11	-66.79	-13.00	53.79	125	239	Vertical
6	5520.1300	41.23	-45.17	32.93	-66.26	-13.00	53.26	166	54	Vertical



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Test Band = LTE B14 5M_ TM1
Test Channel = Mid
Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1581.6800	62.50	-48.29	25.37	-55.67	-40.00	15.67	183	294	Horizontal
2	2372	47.43	-47.46	27.43	-67.87	-13.00	54.87	221	267	Horizontal
3	3163.3600	43.50	-46.46	29.62	-68.60	-13.00	55.60	147	42	Horizontal
4	3954.2000	42.62	-46.21	30.69	-68.16	-13.00	55.16	168	320	Horizontal
5	4745.0400	41.78	-45.73	32.15	-67.06	-13.00	54.06	251	347	Horizontal
6	5535.8800	40.64	-45.19	32.95	-66.86	-13.00	53.86	231	0	Horizontal

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1581.6800	65.37	-48.29	25.37	-52.80	-40.00	12.80	104	360	Vertical
2	2372.5200	48.05	-47.46	27.43	-67.25	-13.00	54.25	248	4	Vertical
3	3163.3600	44.36	-46.46	29.62	-67.74	-13.00	54.74	153	118	Vertical
4	3954.2000	43.11	-46.21	30.69	-67.67	-13.00	54.67	159	265	Vertical
5	4745.0400	41.25	-45.73	32.15	-67.59	-13.00	54.59	147	356	Vertical
6	5535.8800	41.09	-45.19	32.95	-66.41	-13.00	53.41	126	104	Vertical



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中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000

t (86-512) 62992980 www.sgs.com.cn
t (86-512) 62992980 sgs.china@sgs.com

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Test Band = LTE B14 5M_ TM1
Test Channel = Low
Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1576.5714	62.38	-48.29	25.38	-55.79	-40.00	15.79	112	83	Horizontal
2	2365.0200	47.97	-47.47	27.42	-67.33	-13.00	54.33	187	79	Horizontal
3	3153.3600	43.52	-46.50	29.60	-68.64	-13.00	55.64	162	283	Horizontal
4	3941.7000	42.64	-46.22	30.66	-68.17	-13.00	55.17	159	298	Horizontal
5	4730.0400	41.86	-45.75	32.11	-67.04	-13.00	54.04	147	189	Horizontal
6	5518.3800	40.67	-45.16	32.93	-66.82	-13.00	53.82	213	109	Horizontal

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1576.5714	65.29	-48.29	25.38	-52.88	-40.00	12.88	118	0	Vertical
2	2365.0200	48.77	-47.47	27.42	-66.53	-13.00	53.53	152	8	Vertical
3	3153.3600	44.06	-46.50	29.60	-68.10	-13.00	55.10	169	200	Vertical
4	3941.7000	42.34	-46.22	30.66	-68.47	-13.00	55.47	251	186	Vertical
5	4730.0400	41.98	-45.75	32.11	-66.92	-13.00	53.92	214	240	Vertical
6	5518.3800	41.32	-45.16	32.93	-66.17	-13.00	53.17	132	360	Vertical



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Test Band = LTE B14 5M_ TM1

Test Channel = High

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1586.6800	62.81	-48.29	25.37	-55.37	-40.00	15.37	115	281	Horizontal
2	2380	48.93	-47.46	27.43	-66.36	-13.00	53.36	187	268	Horizontal
3	3173.3600	43.53	-46.41	29.64	-68.50	-13.00	55.50	145	290	Horizontal
4	3966.7000	43.17	-46.21	30.72	-67.58	-13.00	54.58	121	158	Horizontal
5	4760.0400	41.63	-45.70	32.20	-67.13	-13.00	54.13	219	228	Horizontal
6	5553.3800	41.30	-45.21	32.97	-66.20	-13.00	53.20	226	360	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1586.8571	64.79	-48.29	25.37	-53.39	-40.00	13.39	125	0	Vertical
2	2380	48.36	-47.46	27.43	-66.93	-13.00	53.93	112	29	Vertical
3	3173.3600	44.39	-46.41	29.64	-67.64	-13.00	54.64	156	200	Vertical
4	3966.7000	42.94	-46.21	30.72	-67.81	-13.00	54.81	189	185	Vertical
5	4760.0400	42.15	-45.70	32.20	-66.61	-13.00	53.61	263	40	Vertical
6	5553.3800	41.42	-45.21	32.97	-66.08	-13.00	53.08	261	238	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamp (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band14	10MHz	QPSK	23330	50RB#0	VL	NT	-7.60	-0.009584	PASS
Band14	10MHz	QPSK	23330	50RB#0	VN	NT	-7.80	-0.009836	PASS
Band14	10MHz	QPSK	23330	50RB#0	VH	NT	-8.90	-0.011223	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band14	10MHz	QPSK	23330	50RB#0	NV	-30	-7.70	-0.009710	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	-20	-8.60	-0.010845	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	-10	-7.50	-0.009458	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	0	-9.70	-0.012232	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	10	-6.40	-0.008071	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	20	-8.30	-0.010467	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	30	-9.90	-0.012484	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	40	-2.80	-0.003531	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	50	-7.30	-0.009206	PASS

---End of Attachment---



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