

Report No.: XEWM2309000447RG01
Rev.: 01
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Appendix B.9

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	23.62	18.24	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#12	23.88	18.50	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#24	23.58	18.20	34.77	PASS
Band14	5MHz	QPSK	23305	25RB#0	22.67	17.29	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#0	23.60	18.22	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#12	23.84	18.46	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#24	23.55	18.17	34.77	PASS
Band14	5MHz	QPSK	23330	25RB#0	22.66	17.28	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#0	23.60	18.22	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#12	23.77	18.39	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#24	23.61	18.23	34.77	PASS
Band14	5MHz	QPSK	23355	25RB#0	22.66	17.28	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#0	22.80	17.42	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#12	23.05	17.67	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#24	22.79	17.41	34.77	PASS
Band14	5MHz	16QAM	23305	25RB#0	21.75	16.37	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#0	22.80	17.42	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#12	23.03	17.65	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#24	22.85	17.47	34.77	PASS
Band14	5MHz	16QAM	23330	25RB#0	21.74	16.36	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#0	22.84	17.46	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#12	22.97	17.59	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#24	22.80	17.42	34.77	PASS
Band14	5MHz	16QAM	23355	25RB#0	21.73	16.35	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#0	21.85	16.47	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#12	22.15	16.77	34.77	PASS



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Band14	5MHz	64QAM	23305	1RB#24	21.84	16.46	34.77	PASS
Band14	5MHz	64QAM	23305	25RB#0	20.74	15.36	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#0	21.79	16.41	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#12	22.08	16.70	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#24	21.78	16.40	34.77	PASS
Band14	5MHz	64QAM	23330	25RB#0	20.72	15.34	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#0	21.83	16.45	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#12	22.03	16.65	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#24	21.76	16.38	34.77	PASS
Band14	5MHz	64QAM	23355	25RB#0	20.72	15.34	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#0	23.63	18.25	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#24	23.76	18.38	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#49	23.69	18.31	34.77	PASS
Band14	10MHz	QPSK	23330	50RB#0	22.73	17.35	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#0	22.99	17.61	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#24	23.08	17.70	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#49	22.93	17.55	34.77	PASS
Band14	10MHz	16QAM	23330	50RB#0	21.82	16.44	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#0	21.89	16.51	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#24	22.01	16.63	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#49	21.86	16.48	34.77	PASS
Band14	10MHz	64QAM	23330	50RB#0	20.77	15.39	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	5.50	13	PASS
Band14	10MHz	16QAM	23330	50RB#0	6.20	13	PASS
Band14	10MHz	64QAM	23330	50RB#0	6.60	13	PASS

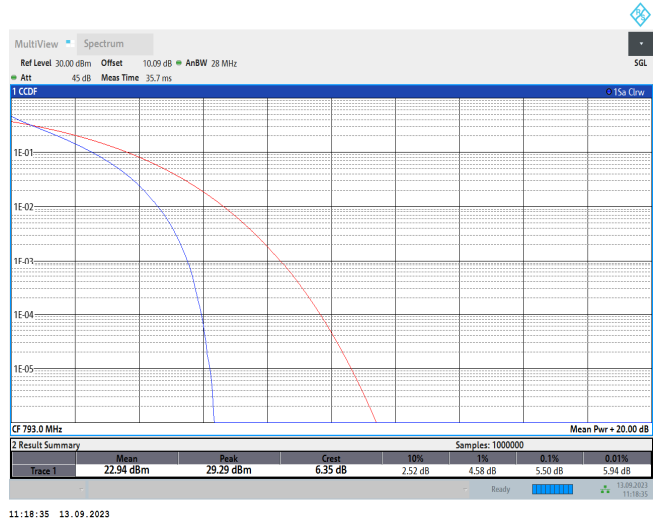


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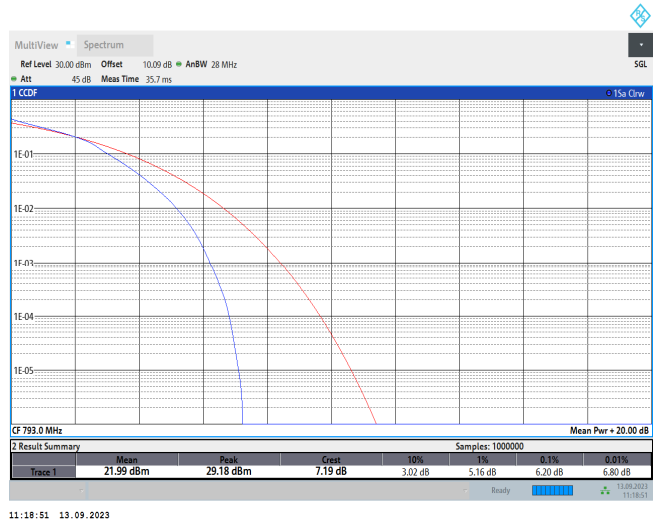
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Test Graphs

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

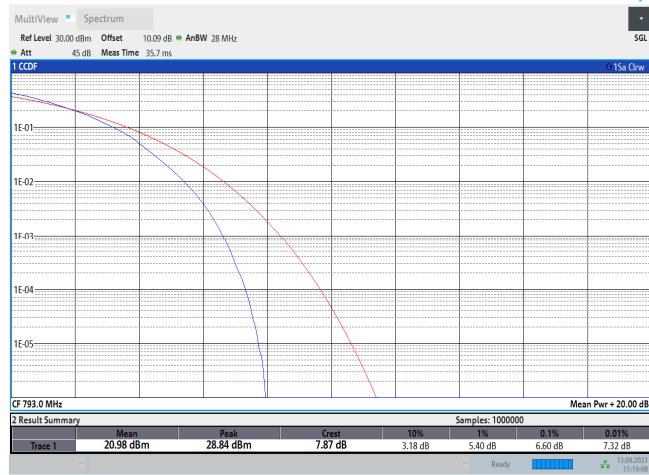


Band14-10MHz-16QAM-23330-50RB#0



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



11:19:08 13.09.2023



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	4.476	5.03	PASS
Band14	5MHz	QPSK	23330	25RB#0	4.477	5.02	PASS
Band14	5MHz	QPSK	23355	25RB#0	4.475	5.03	PASS
Band14	5MHz	16QAM	23305	25RB#0	4.474	5.06	PASS
Band14	5MHz	16QAM	23330	25RB#0	4.474	5.18	PASS
Band14	5MHz	16QAM	23355	25RB#0	4.469	5.05	PASS
Band14	5MHz	64QAM	23305	25RB#0	4.485	5.05	PASS
Band14	5MHz	64QAM	23330	25RB#0	4.486	5.06	PASS
Band14	5MHz	64QAM	23355	25RB#0	4.485	5.01	PASS
Band14	10MHz	QPSK	23330	50RB#0	8.951	9.87	PASS
Band14	10MHz	16QAM	23330	50RB#0	8.933	9.93	PASS
Band14	10MHz	64QAM	23330	50RB#0	8.948	9.93	PASS



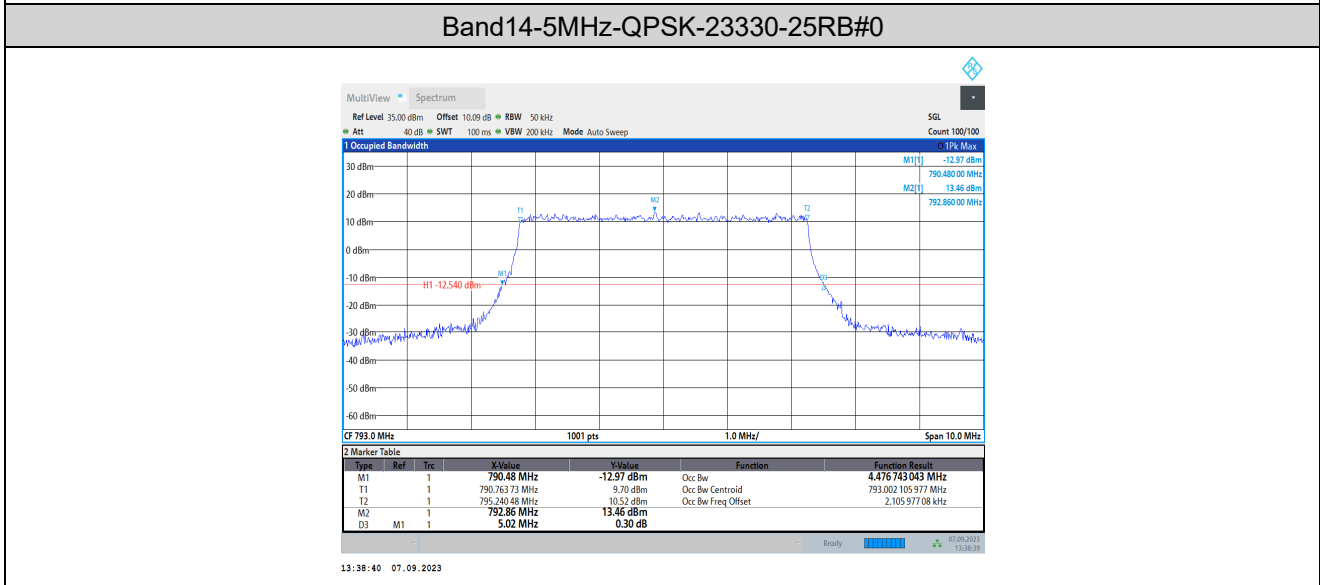
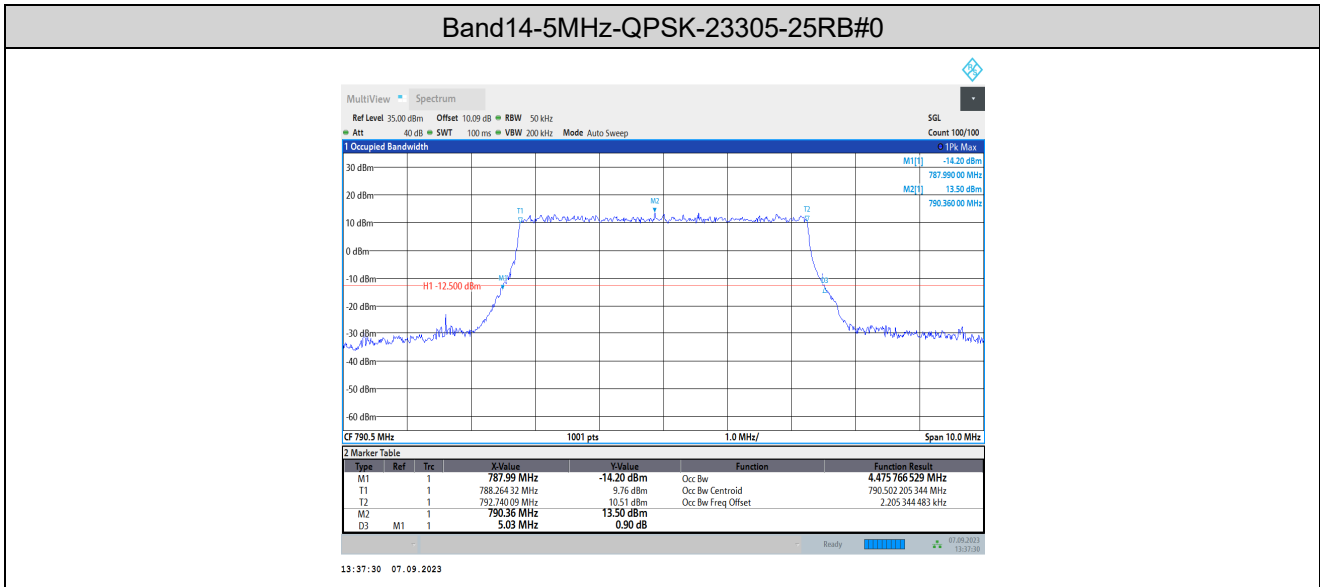
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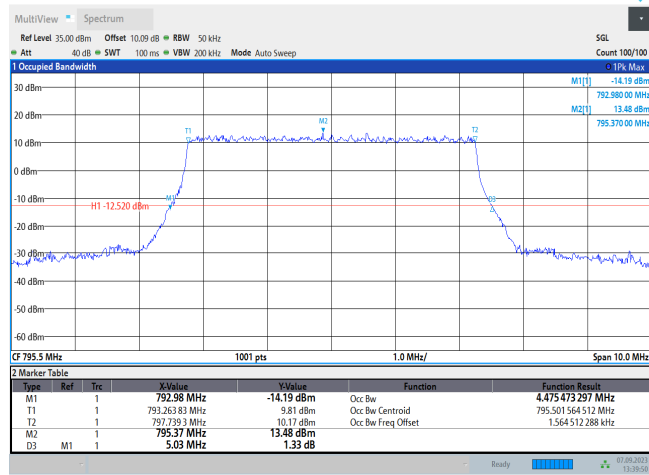
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Test Graphs



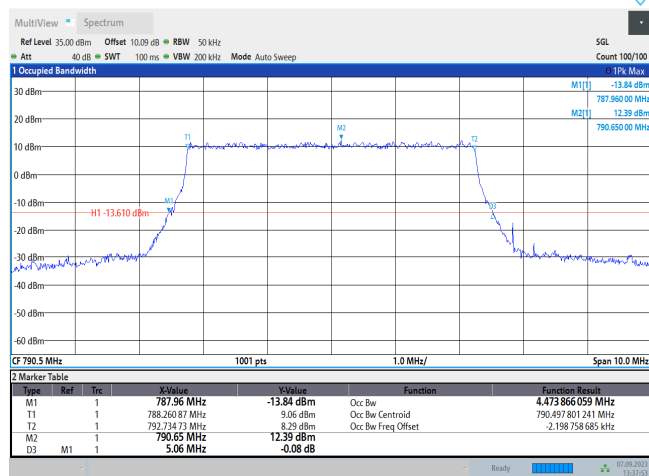
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Band14-5MHz-QPSK-23355-25RB#0



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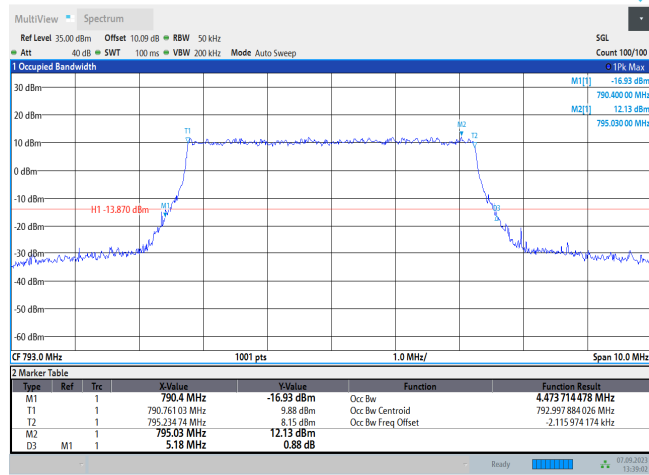
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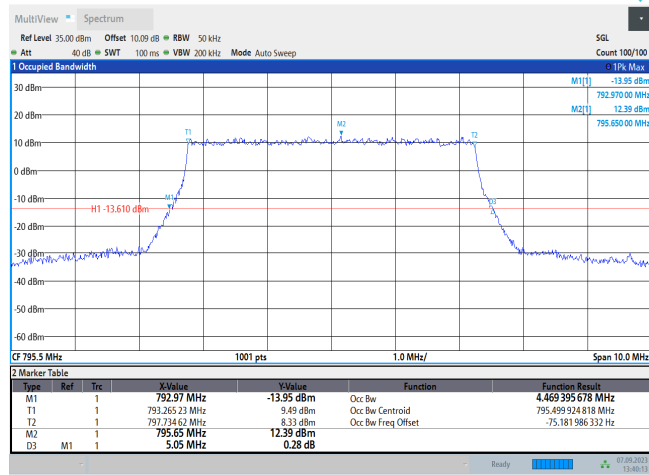
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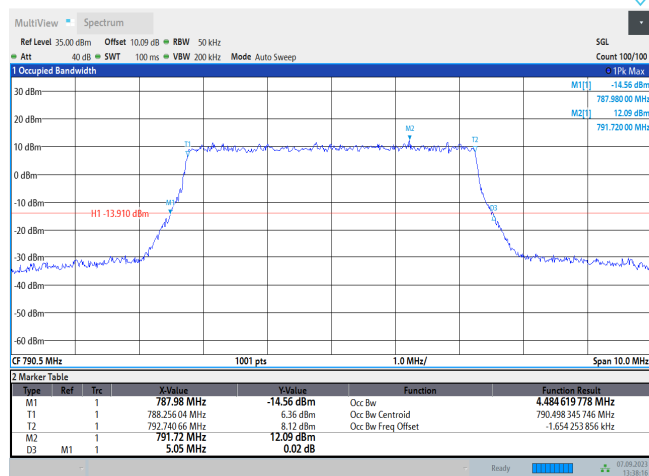


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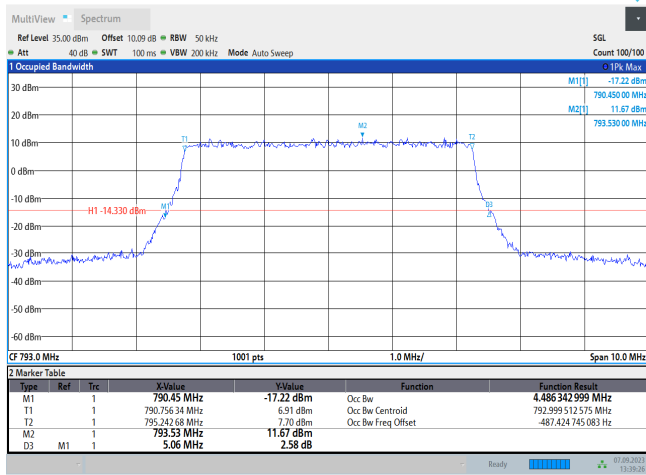
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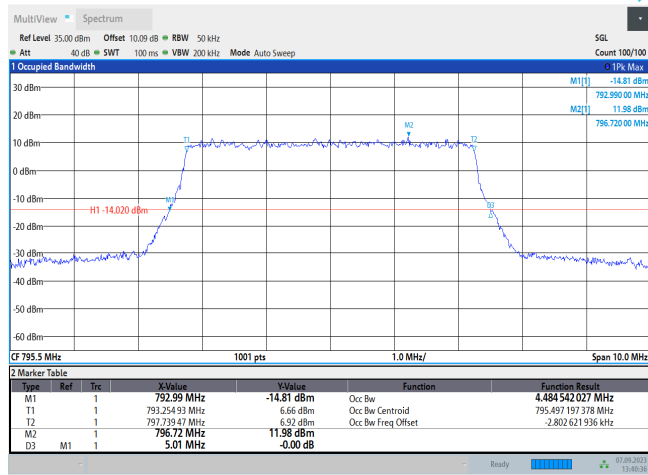


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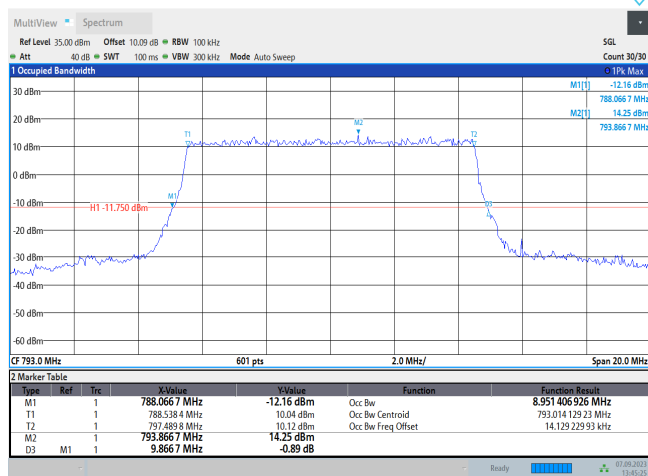
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Band14-5MHz-64QAM-23355-25RB#0



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



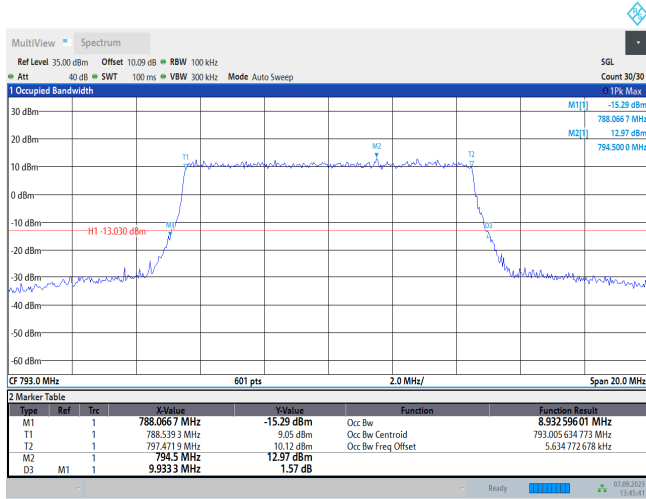
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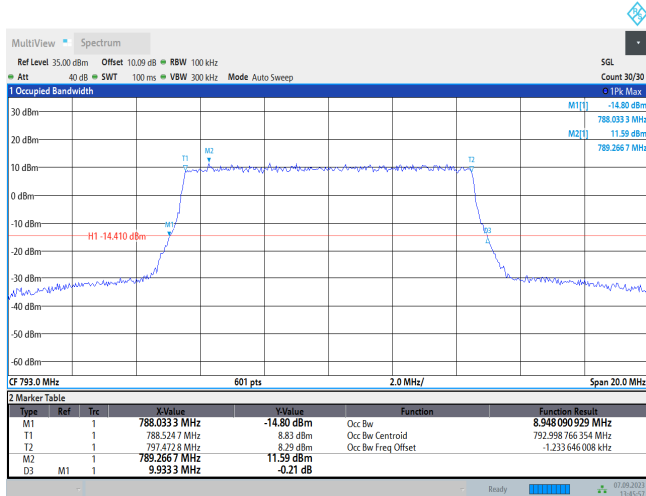
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Band14-10MHz-16QAM-23330-50RB#0



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



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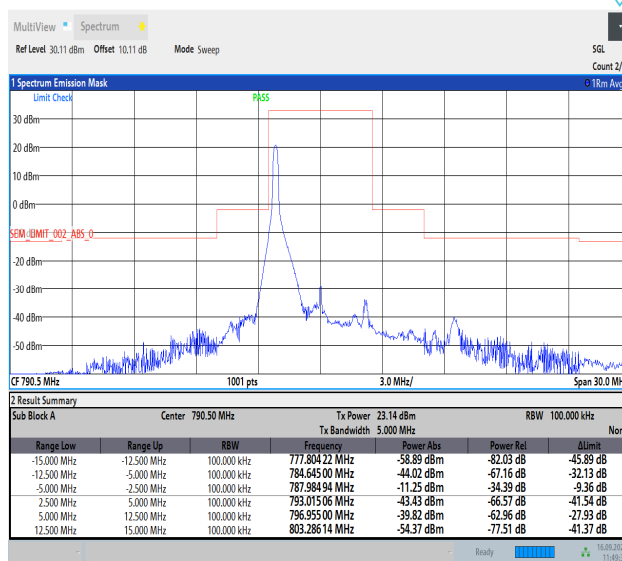
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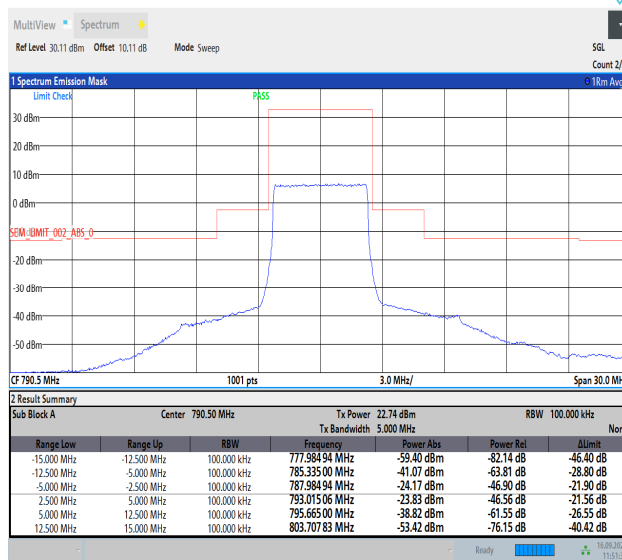
Test Graphs

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



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

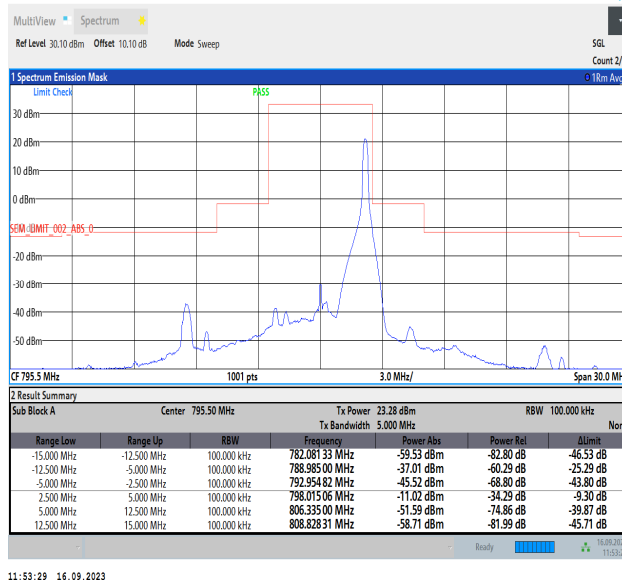


11:51:39 16.09.2023

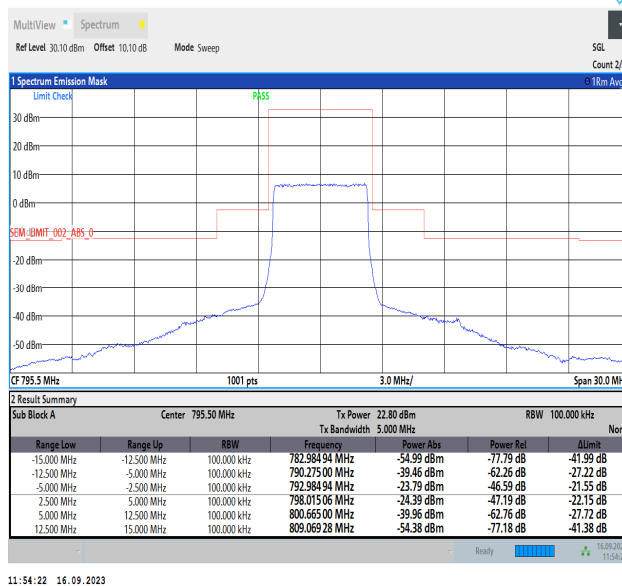


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Band14-5MHz-QPSK-23355-1RB#24



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

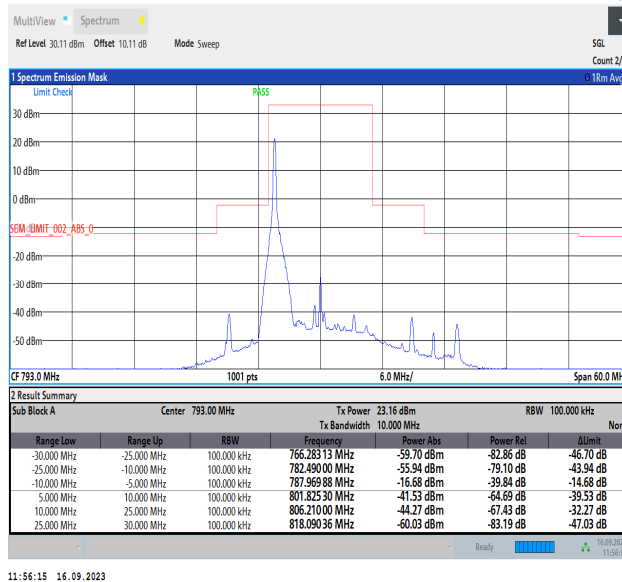


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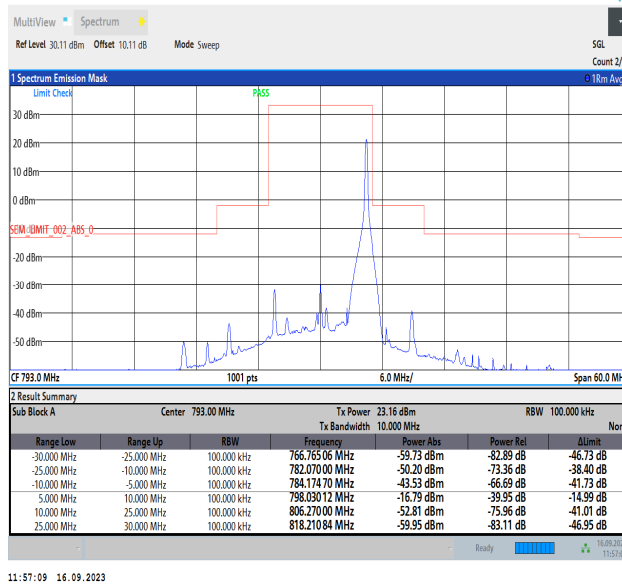
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Band14-10MHz-QPSK-23330-1RB#0



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

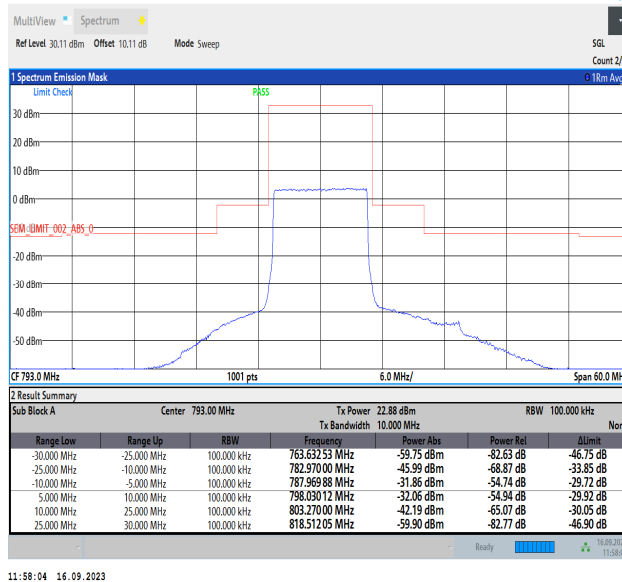


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Band14-10MHz-QPSK-23330-50RB#0

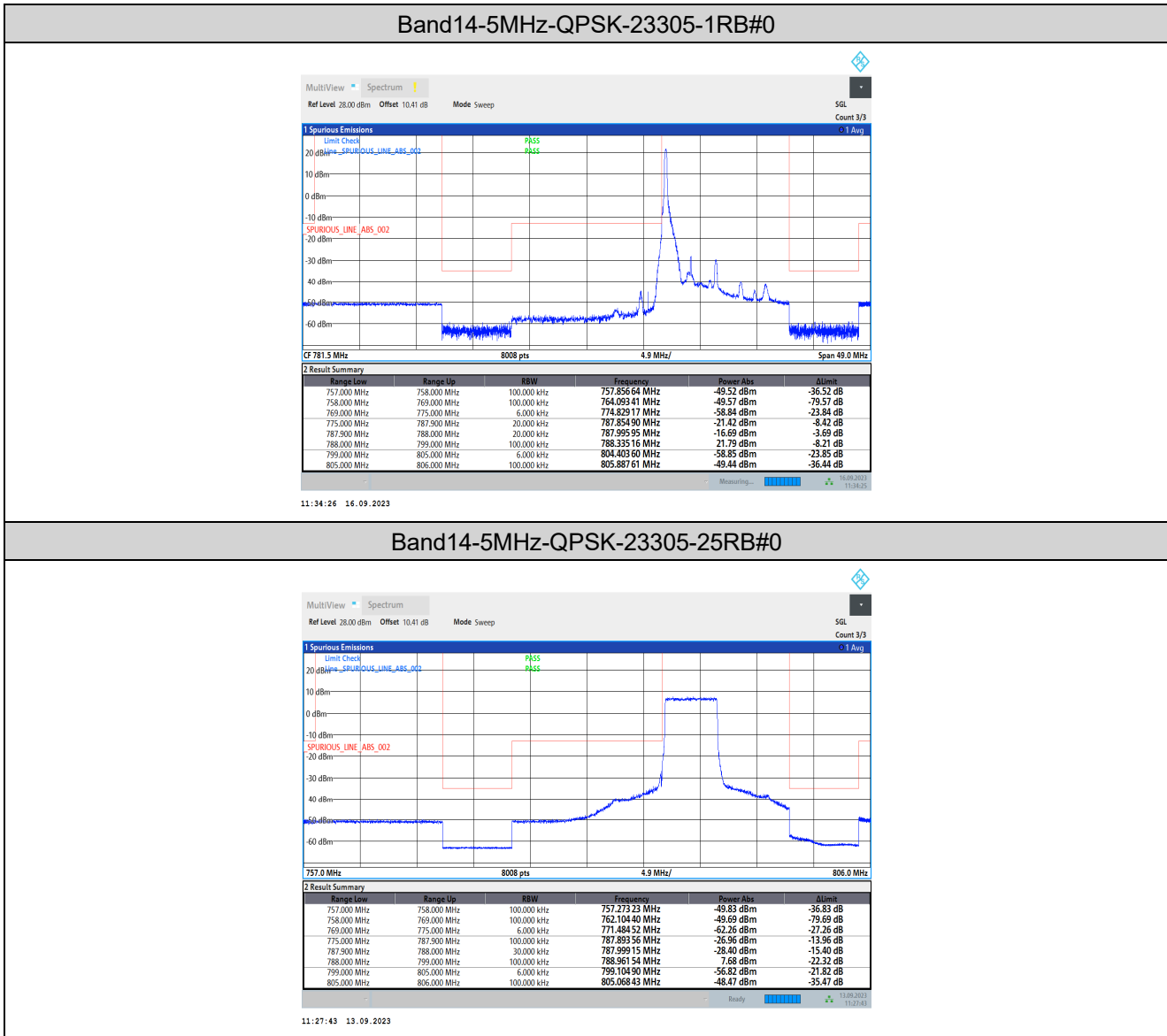


11:58:04 16.09.2023



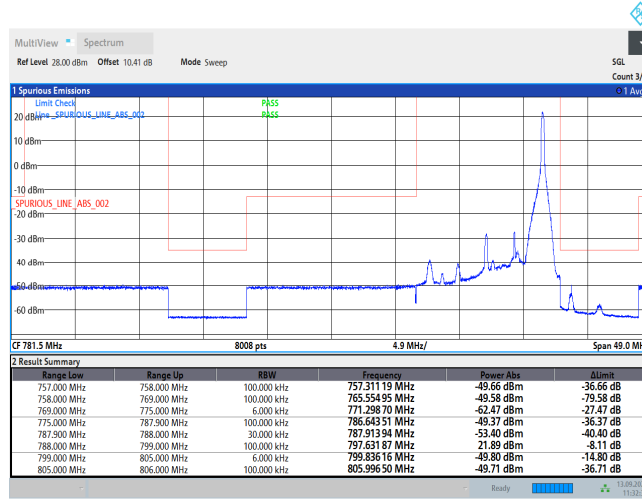
Band Edge

Test Graphs



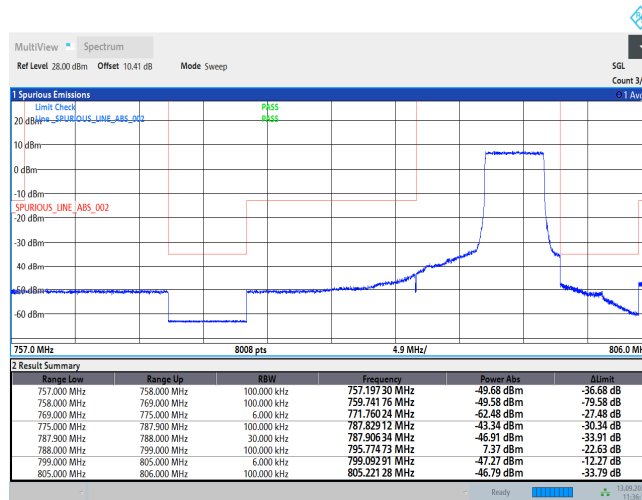
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Band14-5MHz-QPSK-23355-1RB#24



11:32:32 13.09.2023

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



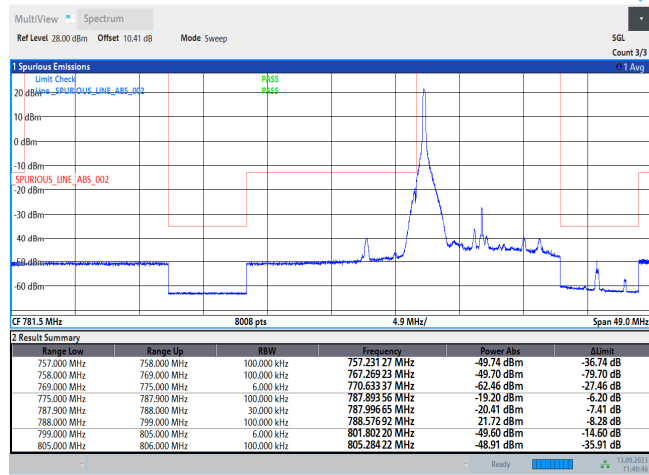
11:36:17 13.09.2023



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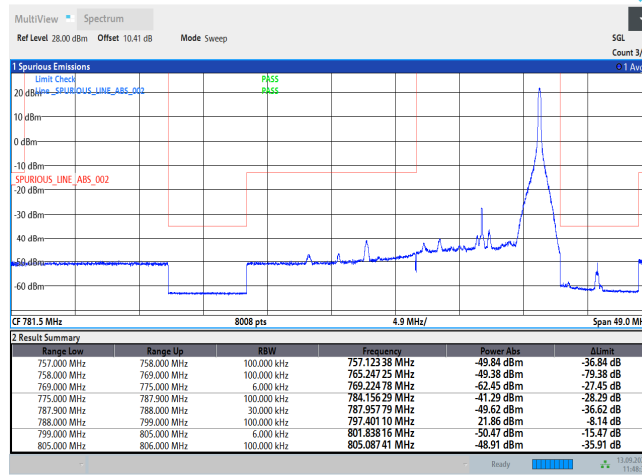
Band14-10MHz-QPSK-23330-1RB#0



11:40:46 13.09.2023

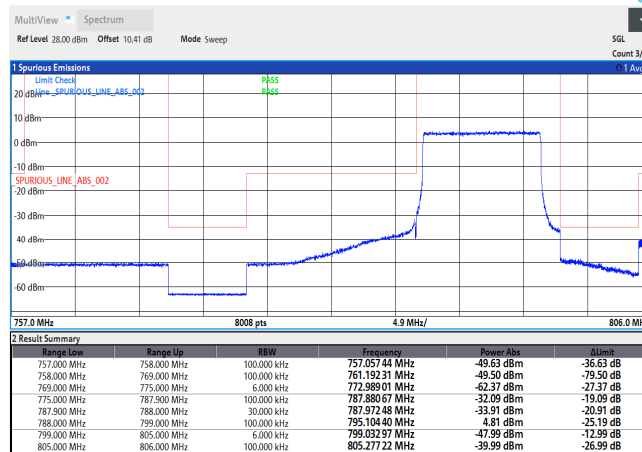


Band14-10MHz-QPSK-23330-1RB#49



11:48:38 13.09.2023

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



11:52:19 13.09.2023



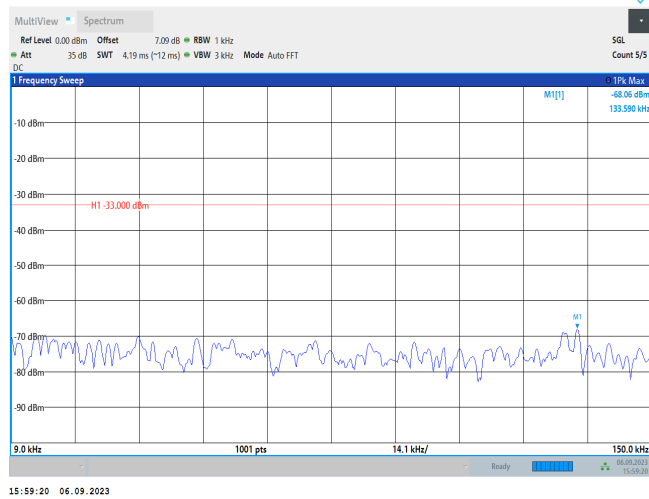
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Conducted Spurious Emission

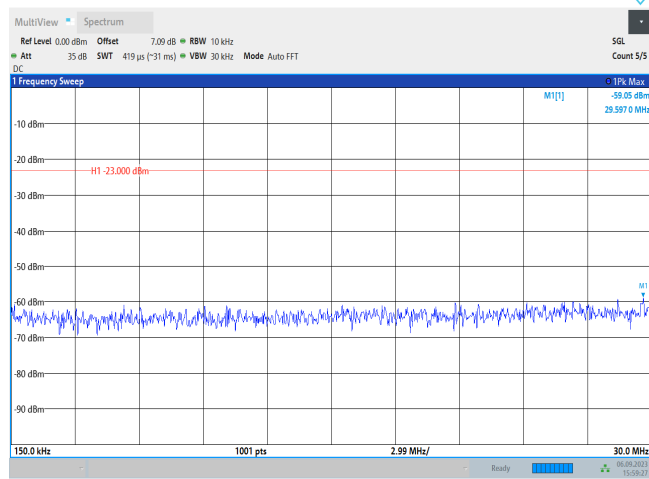
Test Graphs

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



15:59:20 06.09.2023

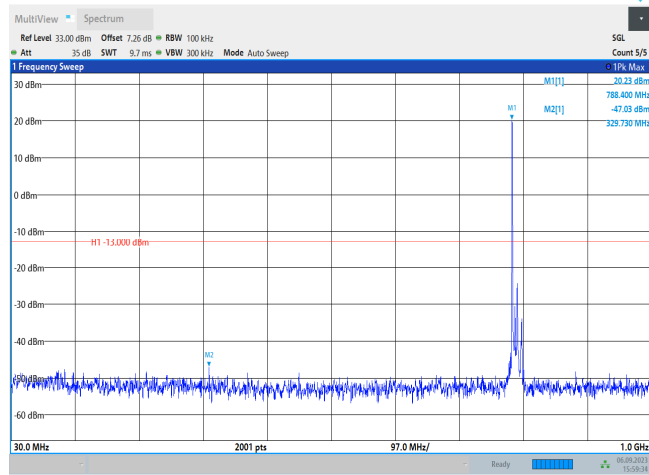
Band14-10MHz-QPSK-23330-1RB#0-Range2:0.15~30MHz



15:59:27 06.09.2023

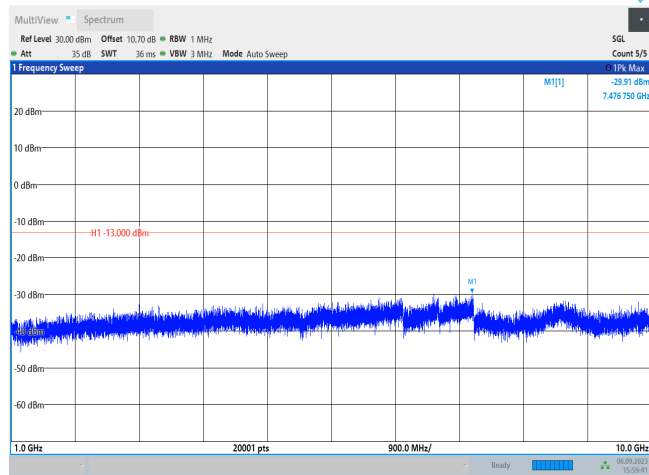


Band14-10MHz-QPSK-23330-1RB#0-Range3:30~1000MHz



15:59:35 06.09.2023

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



15:59:42 06.09.2023



Field Strength of Spurious Radiation

Test Band = LTE_14_5MHz

Test Channel = LCH

Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1576.5	51.06	-47.61	24.68	-67.13	-40.00	27.13	Horizontal
2	2365	62.36	-46.62	27.54	-51.98	-13.00	38.98	Horizontal
3	3684.5	46.65	-44.48	29.30	-63.79	-13.00	50.79	Horizontal
4	5178	45.16	-42.53	31.86	-60.77	-13.00	47.77	Horizontal
5	7502	43.32	-38.39	36.88	-53.45	-13.00	40.45	Horizontal
6	9914.5	41.57	-35.35	38.61	-50.43	-13.00	37.43	Horizontal

Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1576.5	51.15	-47.61	24.68	-67.04	-40.00	27.04	Vertical
2	2365	62.25	-46.62	27.54	-52.09	-13.00	39.09	Vertical
3	3942	46.88	-44.22	29.87	-62.73	-13.00	49.73	Vertical
4	6044.5	44.08	-40.61	33.45	-58.34	-13.00	45.34	Vertical
5	7421.5	43.27	-38.36	36.74	-53.61	-13.00	40.61	Vertical
6	9912.5	41.26	-35.34	38.61	-50.73	-13.00	37.73	Vertical



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Test Band = LTE_14_5MHz

Test Channel = MCH

Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1581.5	58.32	-47.61	24.77	-59.78	-40.00	19.78	Horizontal
2	2372.5	60.76	-46.62	27.51	-53.61	-13.00	40.61	Horizontal
3	3706.5	46.67	-44.53	29.34	-63.78	-13.00	50.78	Horizontal
4	5140	45.51	-42.60	31.74	-60.61	-13.00	47.61	Horizontal
5	7408.5	43.19	-38.35	36.72	-53.70	-13.00	40.70	Horizontal
6	9913	41.30	-35.34	38.61	-50.69	-13.00	37.69	Horizontal

Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1581.5	52.30	-47.61	24.77	-65.80	-40.00	25.80	Vertical
2	2372.5	57.54	-46.62	27.51	-56.83	-13.00	43.83	Vertical
3	3717	46.82	-44.60	29.40	-63.64	-13.00	50.64	Vertical
4	6088	44.18	-40.48	33.42	-58.14	-13.00	45.14	Vertical
5	7409	43.27	-38.35	36.72	-53.62	-13.00	40.62	Vertical
6	9880	41.62	-35.34	38.44	-50.54	-13.00	37.54	Vertical



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Test Band = LTE_14_5MHz

Test Channel = HCH

Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1586.5	58.47	-47.61	24.86	-59.54	-40.00	19.54	Horizontal
2	2380	61.82	-46.62	27.48	-52.58	-13.00	39.58	Horizontal
3	3700	46.75	-44.48	29.30	-63.69	-13.00	50.69	Horizontal
4	4793.5	46.17	-42.89	30.76	-61.22	-13.00	48.22	Horizontal
5	7404	43.43	-38.35	36.71	-53.47	-13.00	40.47	Horizontal
6	9913.5	41.26	-35.34	38.61	-50.73	-13.00	37.73	Horizontal

Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1586.5	55.03	-47.61	24.86	-62.98	-40.00	22.98	Vertical
2	2380	60.07	-46.62	27.48	-54.33	-13.00	41.33	Vertical
3	3675	46.64	-44.48	29.30	-63.80	-13.00	50.80	Vertical
4	5137.5	45.48	-42.61	31.73	-60.66	-13.00	47.66	Vertical
5	7496	43.27	-38.38	36.89	-53.48	-13.00	40.48	Vertical
6	9912.5	41.28	-35.34	38.61	-50.71	-13.00	37.71	Vertical



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Test Band = LTE_14_10MHz
Test Channel = MCH

Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1577	58.22	-47.61	24.69	-59.96	-40.00	19.96	Horizontal
2	2365.5	62.75	-46.62	27.54	-51.59	-13.00	38.59	Horizontal
3	3681	46.69	-44.48	29.30	-63.75	-13.00	50.75	Horizontal
4	5150	45.15	-42.59	31.80	-60.90	-13.00	47.90	Horizontal
5	7403	43.07	-38.35	36.71	-53.83	-13.00	40.83	Horizontal
6	9913.5	41.38	-35.34	38.61	-50.61	-13.00	37.61	Horizontal

Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1577	53.22	-47.61	24.69	-64.96	-40.00	24.96	Vertical
2	2366	61.09	-46.62	27.54	-53.25	-13.00	40.25	Vertical
3	3647.5	46.64	-44.48	29.28	-63.82	-13.00	50.82	Vertical
4	5145.5	45.34	-42.59	31.77	-60.74	-13.00	47.74	Vertical
5	7425.5	43.09	-38.36	36.75	-53.78	-13.00	40.78	Vertical
6	9921	41.12	-35.37	38.62	-50.89	-13.00	37.89	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) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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Frequency Stability

Test Result

Voltage									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band14	10MHz	QPSK	23330	50RB#0	VL	NT	-9.31	-0.011740	PASS
Band14	10MHz	QPSK	23330	50RB#0	VN	NT	-6.58	-0.008298	PASS
Band14	10MHz	QPSK	23330	50RB#0	VH	NT	-7.14	-0.009004	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band14	10MHz	QPSK	23330	50RB#0	NV	-30	-5.91	-0.007453	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	-20	-7.27	-0.009168	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	-10	-8.90	-0.011223	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	0	-2.79	-0.003518	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	10	-11.12	-0.014023	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	20	-6.47	-0.008159	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	30	-5.25	-0.006620	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	40	2.46	0.003102	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	50	-10.80	-0.013619	PASS

---End of Attachment---



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