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Appendix B.8

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	24.65	24.92	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#12	24.53	24.8	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#24	24.52	24.79	34.77	PASS
Band14	5MHz	QPSK	23305	25RB#0	24.06	24.33	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#0	24.51	23.83	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#12	24.78	25.05	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#24	24.51	24.78	34.77	PASS
Band14	5MHz	QPSK	23330	25RB#0	23.96	24.23	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#0	24.44	22.61	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#12	24.62	24.89	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#24	24.45	24.72	34.77	PASS
Band14	5MHz	QPSK	23355	25RB#0	23.99	24.26	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#0	24.32	24.59	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#12	24.28	24.55	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#24	24.02	24.29	34.77	PASS
Band14	5MHz	16QAM	23305	25RB#0	23.08	23.35	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#0	23.98	24.25	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#12	24.18	24.45	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#24	23.98	24.25	34.77	PASS
Band14	5MHz	16QAM	23330	25RB#0	22.95	23.22	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#0	24.1	24.37	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#12	24.13	24.4	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#24	23.92	24.19	34.77	PASS
Band14	5MHz	16QAM	23355	25RB#0	22.93	23.2	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#0	23.53	23.8	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#12	23.4	23.67	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#24	23.1	23.37	34.77	PASS



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Band14	5MHz	64QAM	23305	25RB#0	22.08	22.35	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#0	23.23	23.5	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#12	23.23	23.5	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#24	23.05	23.32	34.77	PASS
Band14	5MHz	64QAM	23330	25RB#0	22.06	22.33	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#0	23.21	23.48	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#12	23.18	23.45	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#24	23.15	23.42	34.77	PASS
Band14	5MHz	64QAM	23355	25RB#0	21.93	22.2	34.77	PASS
Band14	5MHz	256QAM	23305	1RB#0	20.1	20.37	34.77	PASS
Band14	5MHz	256QAM	23305	1RB#12	20.24	20.51	34.77	PASS
Band14	5MHz	256QAM	23305	1RB#24	20.02	20.29	34.77	PASS
Band14	5MHz	256QAM	23305	25RB#0	20.14	20.41	34.77	PASS
Band14	5MHz	256QAM	23330	1RB#0	20.09	20.36	34.77	PASS
Band14	5MHz	256QAM	23330	1RB#12	20.25	20.52	34.77	PASS
Band14	5MHz	256QAM	23330	1RB#24	20.07	20.34	34.77	PASS
Band14	5MHz	256QAM	23330	25RB#0	20.01	20.28	34.77	PASS
Band14	5MHz	256QAM	23355	1RB#0	20.05	20.32	34.77	PASS
Band14	5MHz	256QAM	23355	1RB#12	20.12	20.39	34.77	PASS
Band14	5MHz	256QAM	23355	1RB#24	20.15	20.42	34.77	PASS
Band14	5MHz	256QAM	23355	25RB#0	19.93	20.2	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#0	24.63	24.9	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#24	24.65	24.92	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#49	24.49	24.76	34.77	PASS
Band14	10MHz	QPSK	23330	50RB#0	23.99	24.26	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#0	24.12	24.39	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#24	24.05	24.32	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#49	24.34	24.61	34.77	PASS
Band14	10MHz	16QAM	23330	50RB#0	23.01	23.28	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#0	23.07	23.34	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#24	23.31	23.58	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#49	23.01	23.28	34.77	PASS
Band14	10MHz	64QAM	23330	50RB#0	21.99	22.26	34.77	PASS



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Band14	10MHz	256QAM	23330	1RB#0	20.08	20.35	34.77	PASS
Band14	10MHz	256QAM	23330	1RB#24	20.16	20.43	34.77	PASS
Band14	10MHz	256QAM	23330	1RB#49	20.12	20.39	34.77	PASS
Band14	10MHz	256QAM	23330	50RB#0	19.97	20.24	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	4.58	13	PASS
Band14	10MHz	16QAM	23330	50RB#0	5.62	13	PASS
Band14	10MHz	64QAM	23330	50RB#0	6.14	13	PASS
Band14	10MHz	256QAM	23330	50RB#0	6.50	13	PASS



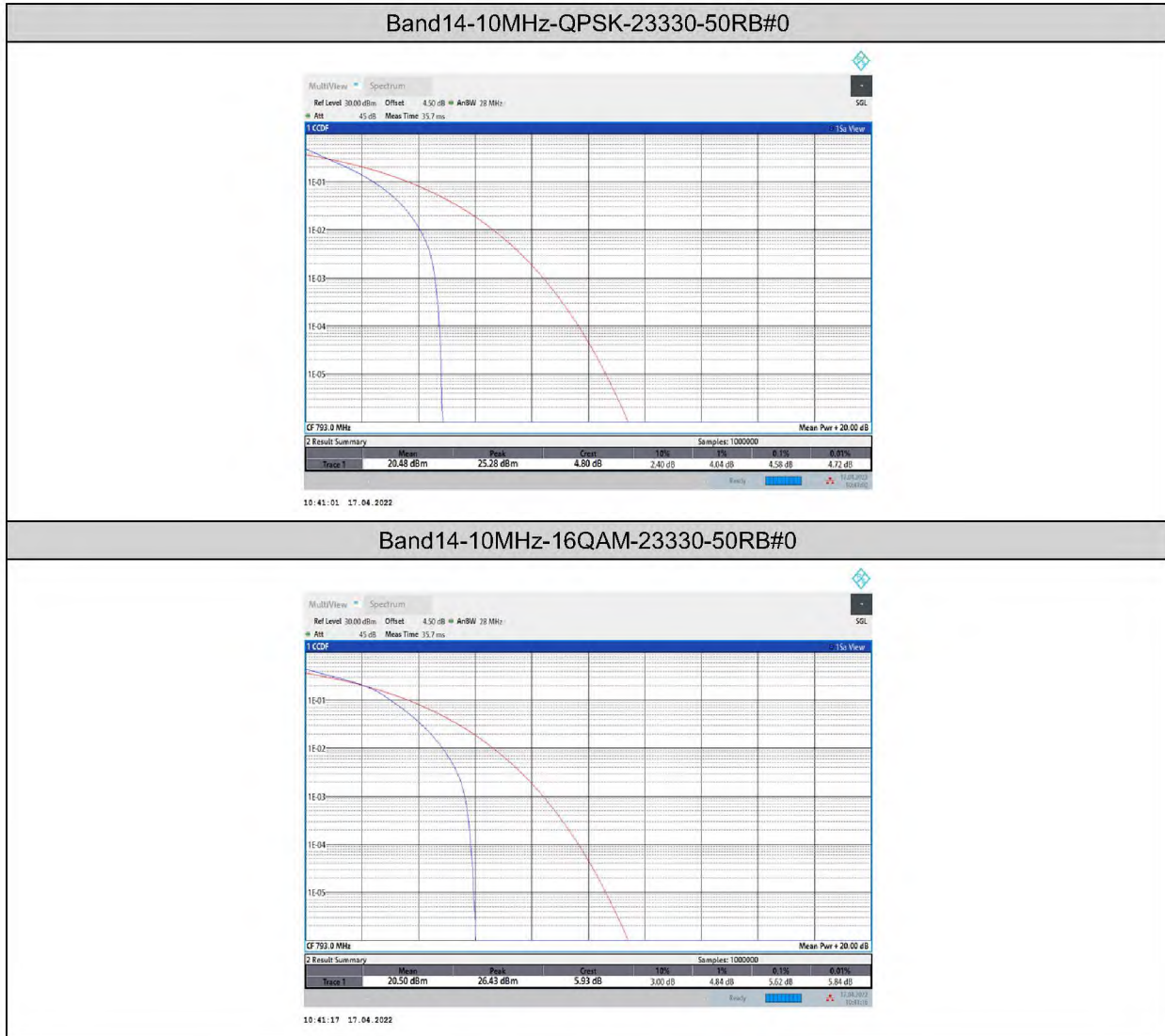
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Test Graphs

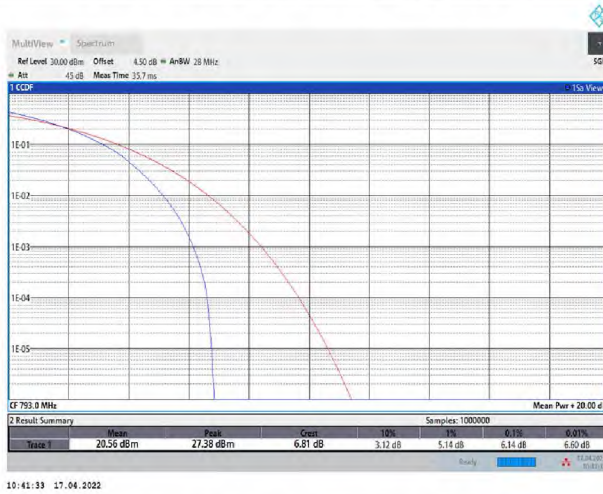


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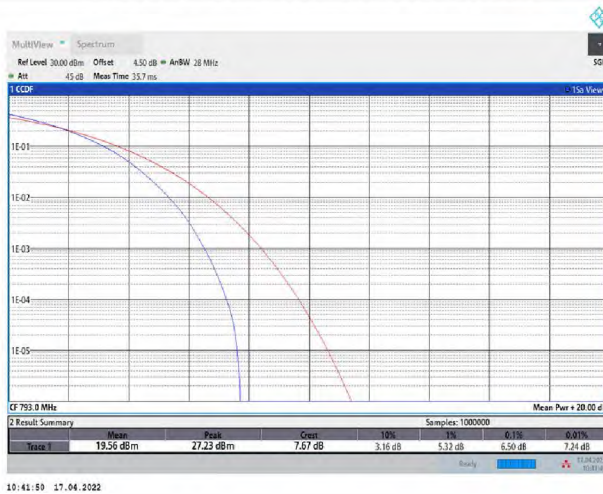
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Band14-10MHz-64QAM-23330-50RB#0



Band14-10MHz-256QAM-23330-50RB#0



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
Band14	10MHz	256QAM	23330	50RB#0	PASS	PASS



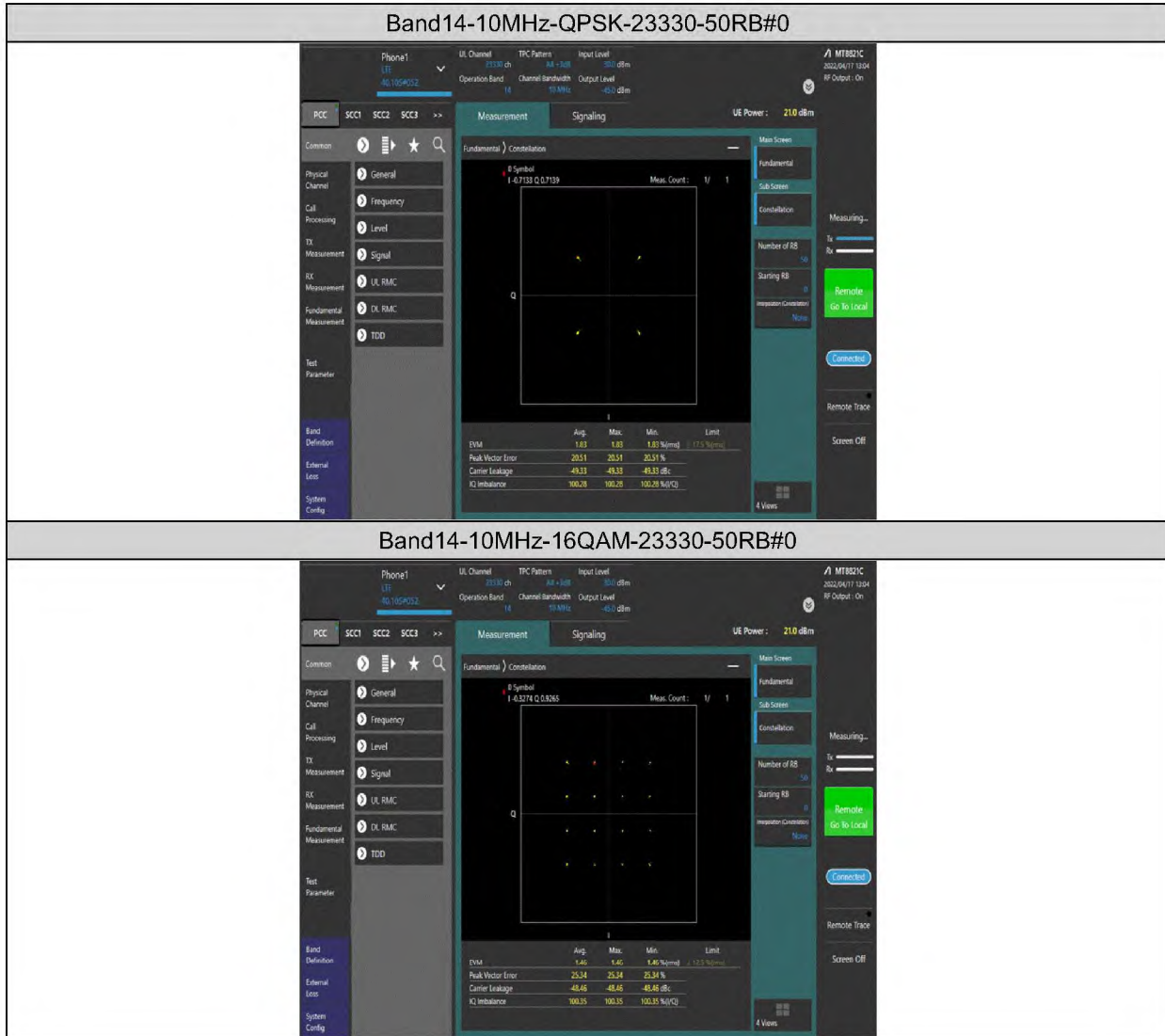
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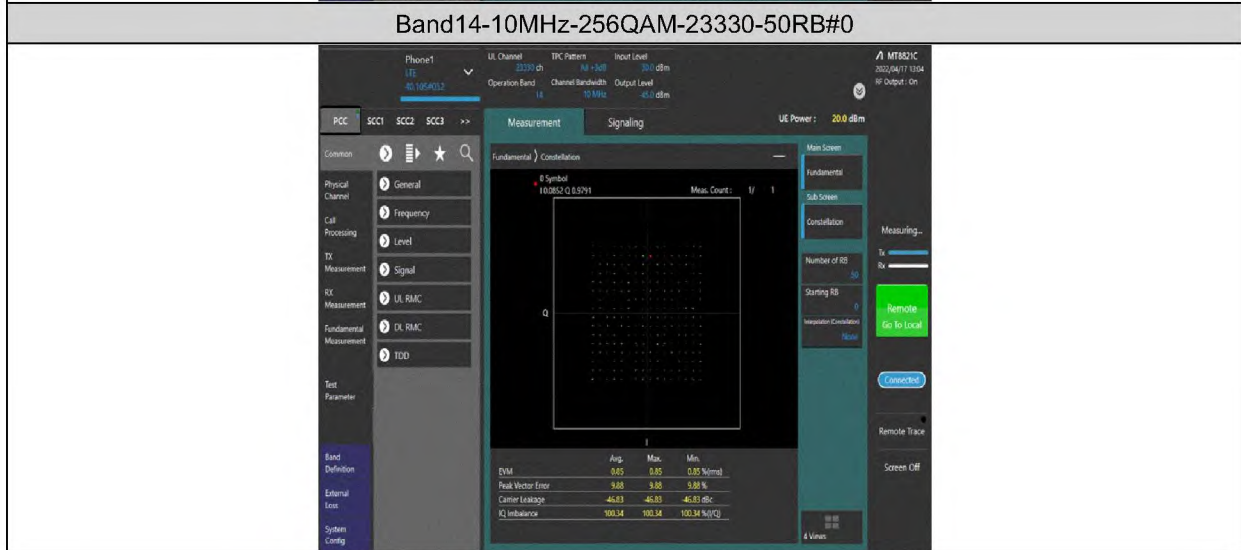
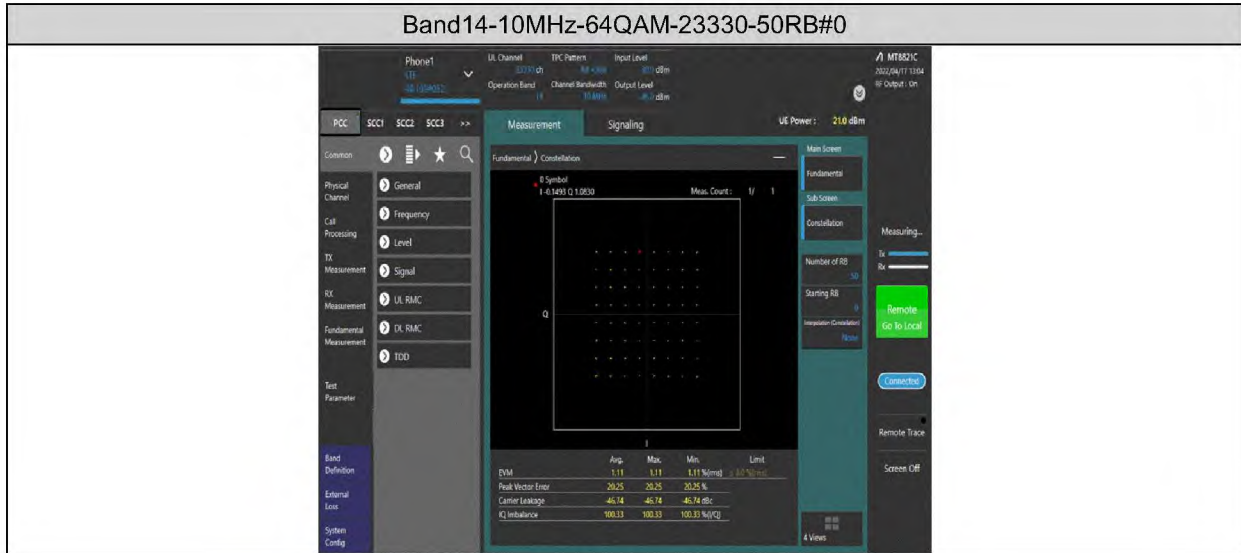


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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band14	5MHz	QPSK	23305	25RB#0	4.476	5.08	PASS
Band14	5MHz	QPSK	23330	25RB#0	4.478	5.06	PASS
Band14	5MHz	QPSK	23355	25RB#0	4.478	5.05	PASS
Band14	5MHz	16QAM	23305	25RB#0	4.48	5.03	PASS
Band14	5MHz	16QAM	23330	25RB#0	4.478	5.02	PASS
Band14	5MHz	16QAM	23355	25RB#0	4.474	5.07	PASS
Band14	5MHz	64QAM	23305	25RB#0	4.482	5.03	PASS
Band14	5MHz	64QAM	23330	25RB#0	4.481	5.04	PASS
Band14	5MHz	64QAM	23355	25RB#0	4.474	5.05	PASS
Band14	5MHz	256QAM	23305	25RB#0	4.475	5.01	PASS
Band14	5MHz	256QAM	23330	25RB#0	4.476	5.03	PASS
Band14	5MHz	256QAM	23355	25RB#0	4.476	5.05	PASS
Band14	10MHz	QPSK	23330	50RB#0	8.928	9.87	PASS
Band14	10MHz	16QAM	23330	50RB#0	8.938	9.93	PASS
Band14	10MHz	64QAM	23330	50RB#0	8.938	9.90	PASS
Band14	10MHz	256QAM	23330	50RB#0	8.941	9.93	PASS

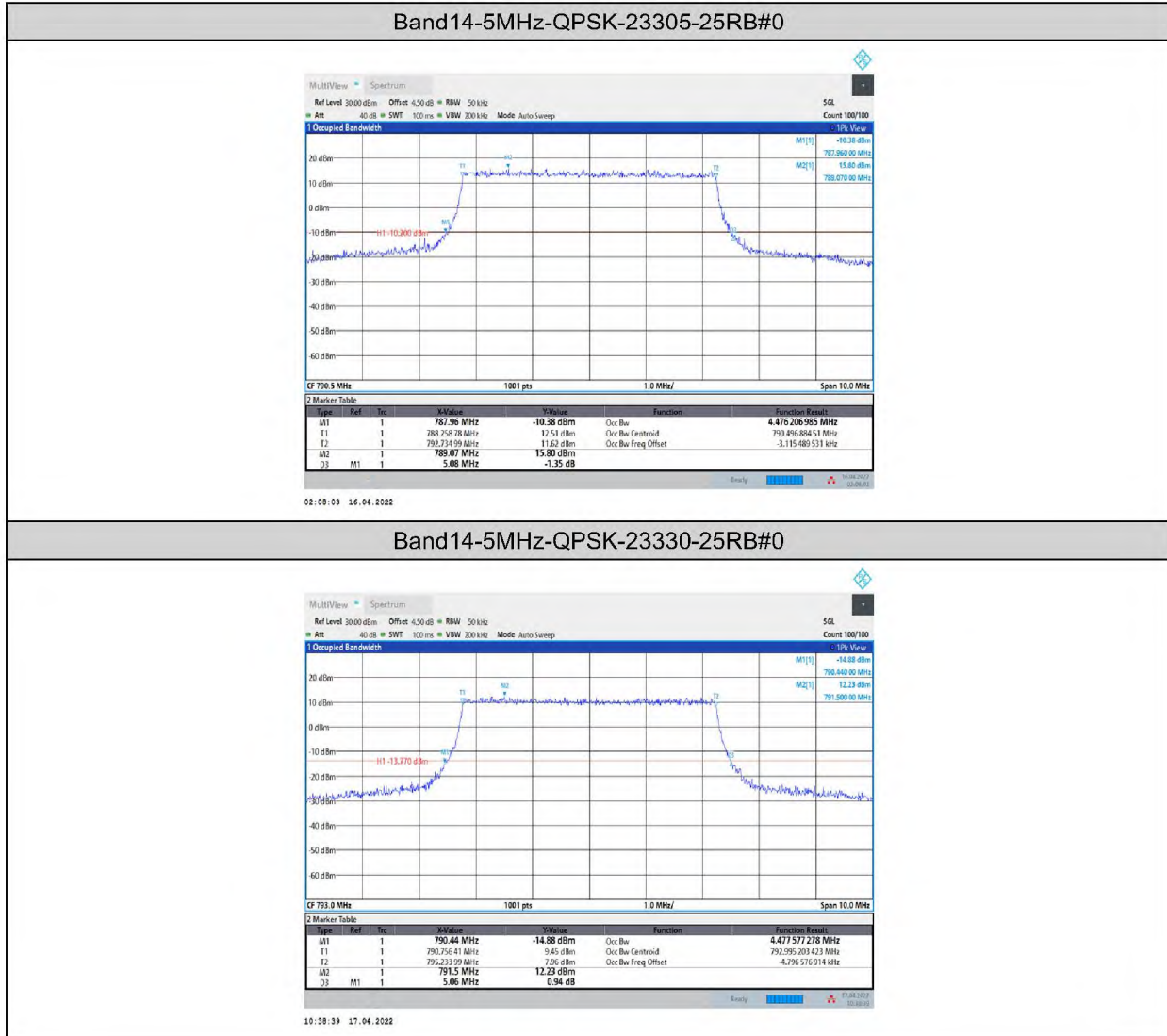


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Test Graphs

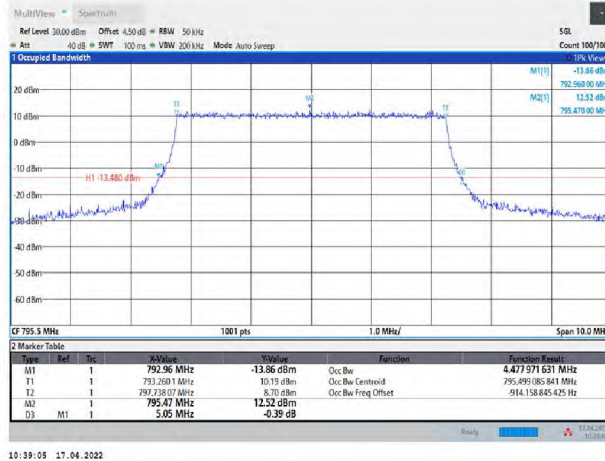


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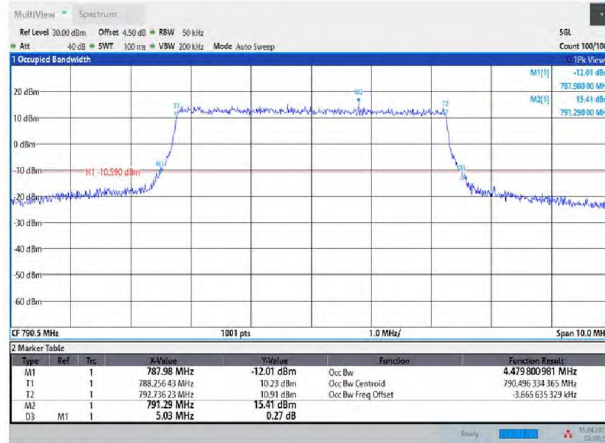
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Band14-5MHz-QPSK-23355-25RB#0



10:39:05 17.04.2022

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



02:09:28 16.04.2022

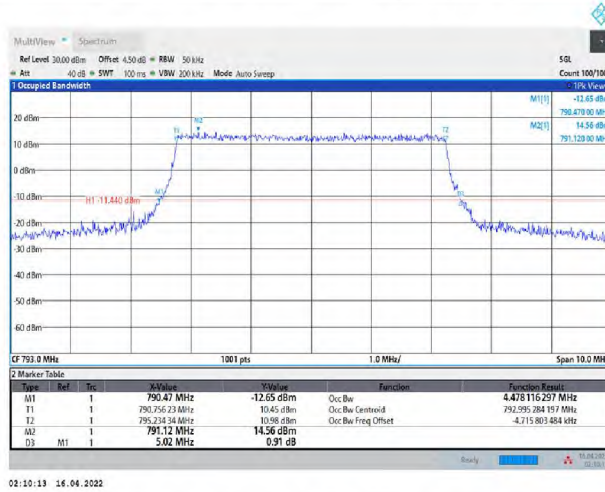


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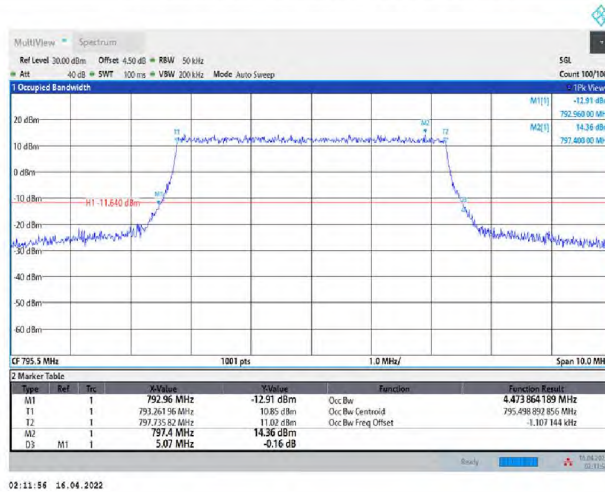
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Band14-5MHz-16QAM-23330-25RB#0



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

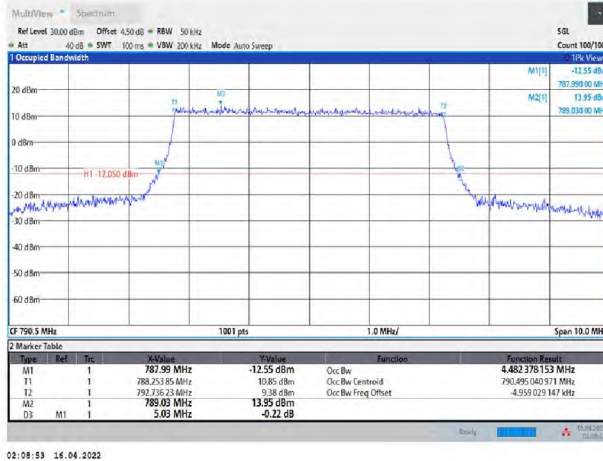


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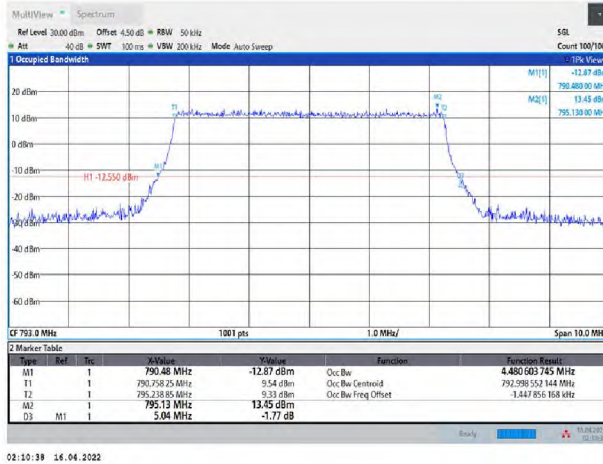
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Band14-5MHz-64QAM-23305-25RB#0



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



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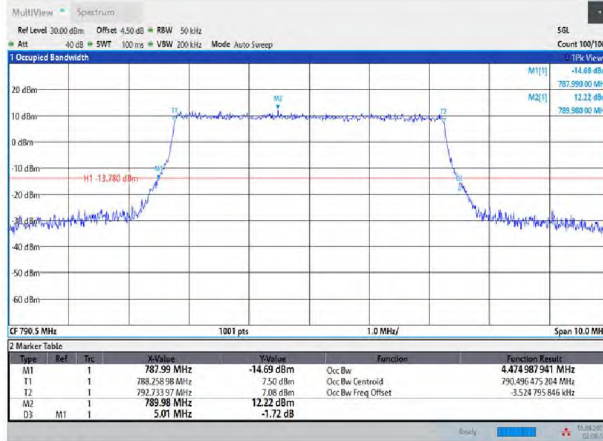
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Band14-5MHz-64QAM-23355-25RB#0



02:12:22 16.04.2022

Band14-5MHz-256QAM-23305-25RB#0



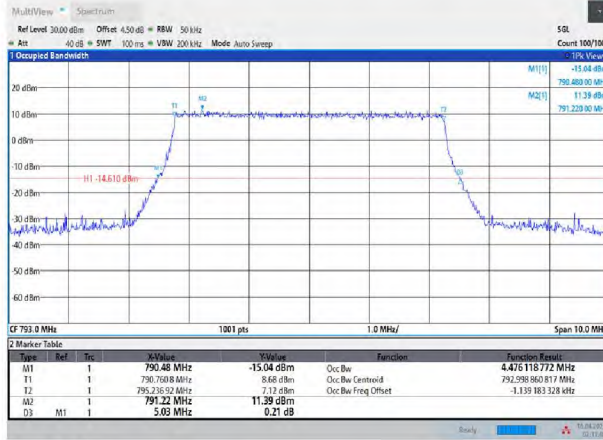
02:09:18 16.04.2022



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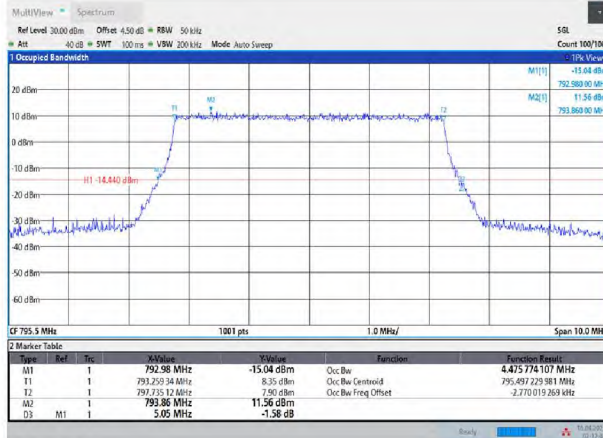
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Band14-5MHz-256QAM-23330-25RB#0



02:11:04 16.04.2022

Band14-5MHz-256QAM-23355-25RB#0



02:12:47 16.04.2022

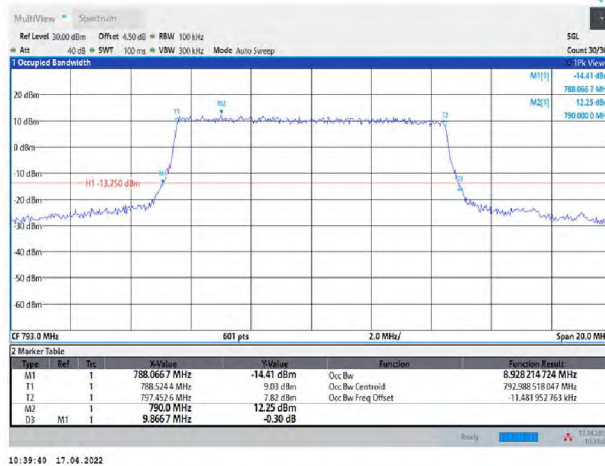


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Band14-10MHz-QPSK-23330-50RB#0



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



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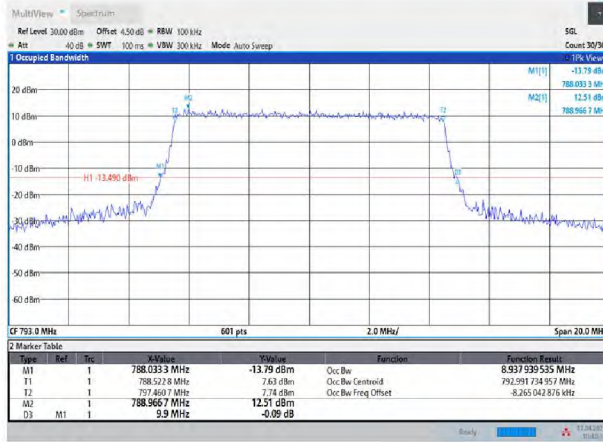
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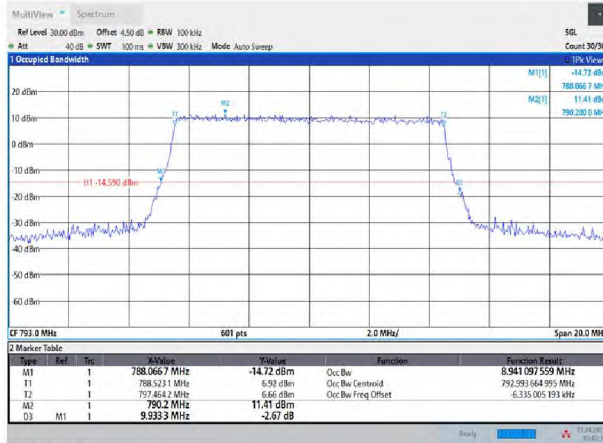
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Band14-10MHz-64QAM-23330-50RB#0



10:40:17 17.04.2022

Band14-10MHz-256QAM-23330-50RB#0



10:40:35 17.04.2022



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Emission Mask

Test Graphs

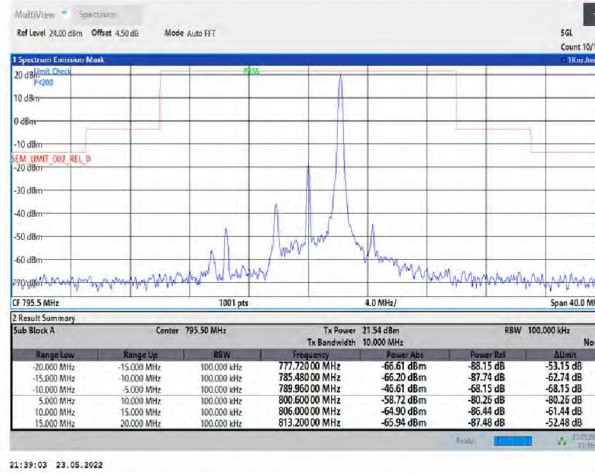


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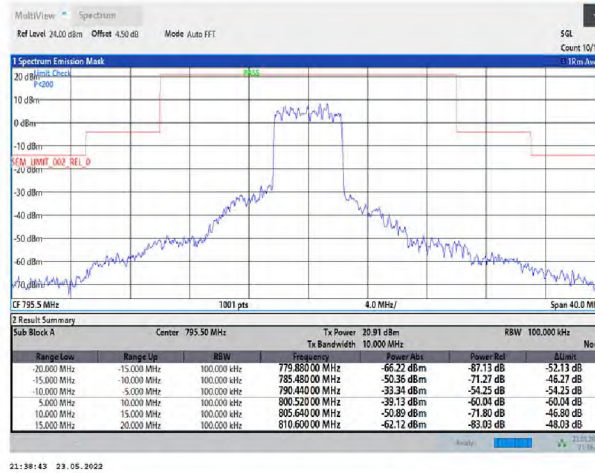
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Band14-5MHz-QPSK-23355-1RB#24



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



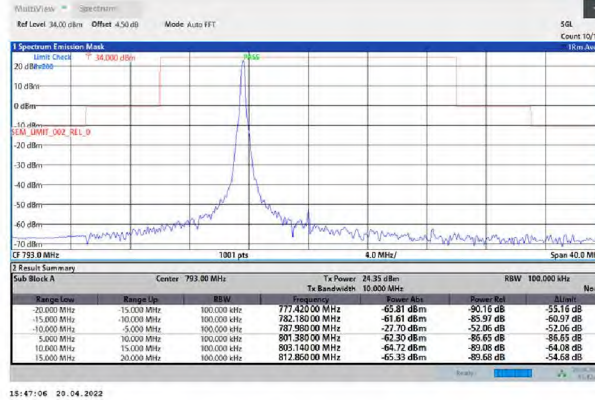
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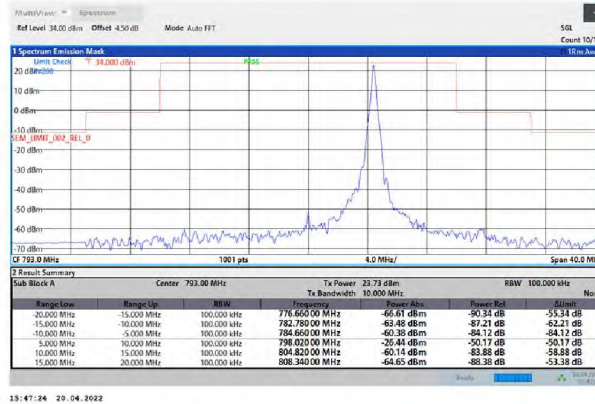
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Band14-10MHz-QPSK-23330-1RB#0



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



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



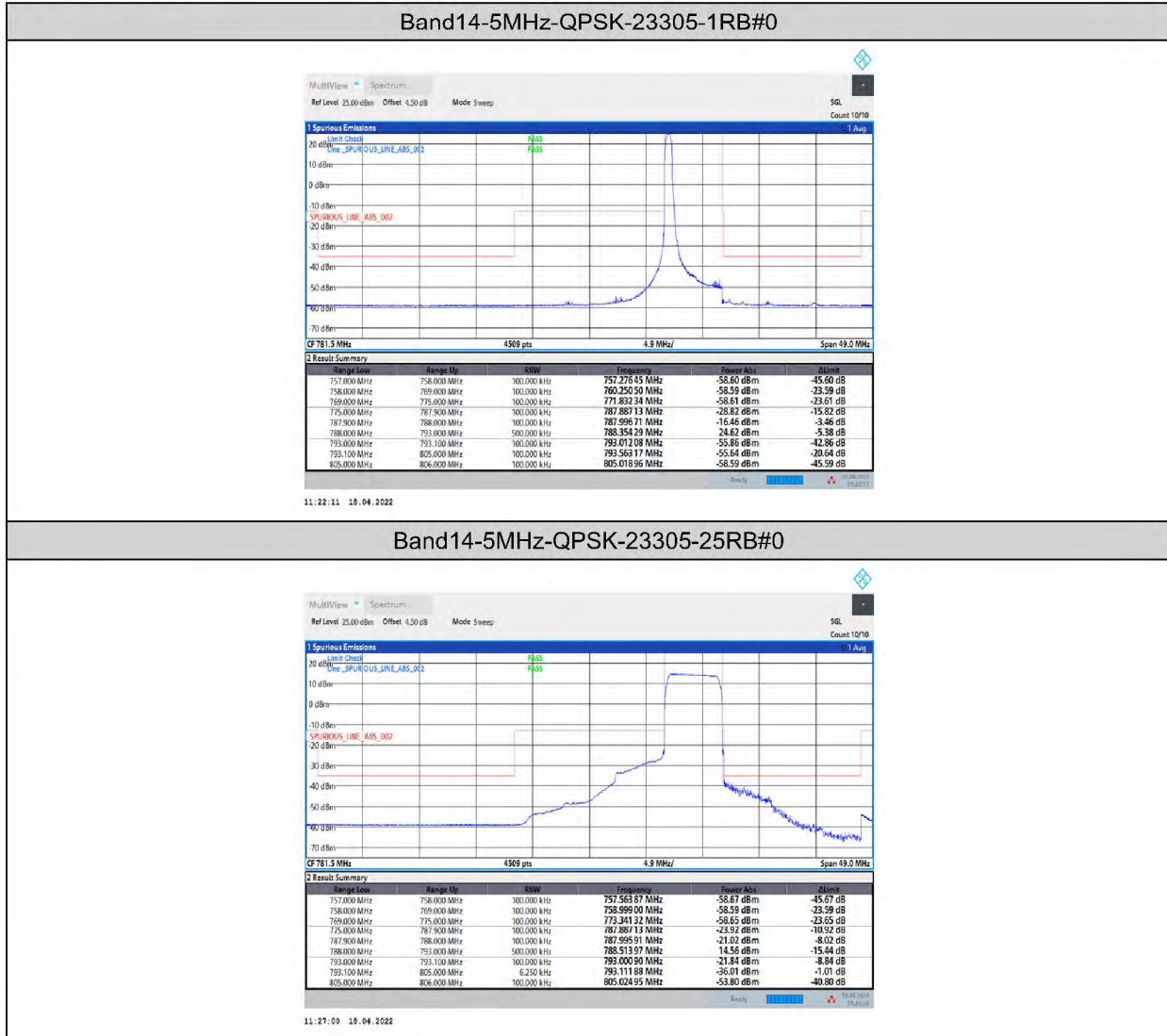
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Band Edge

Test Graphs

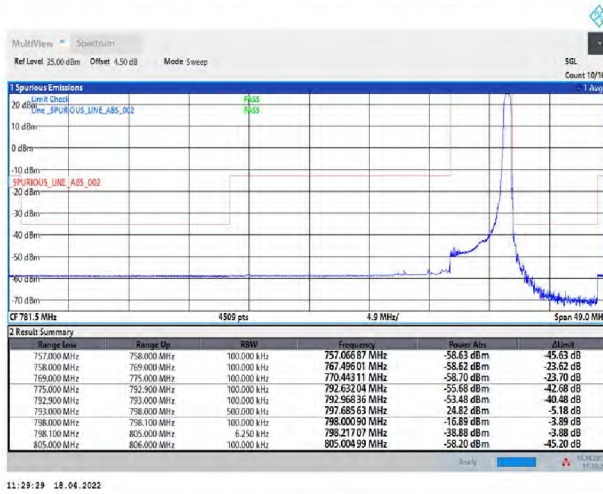


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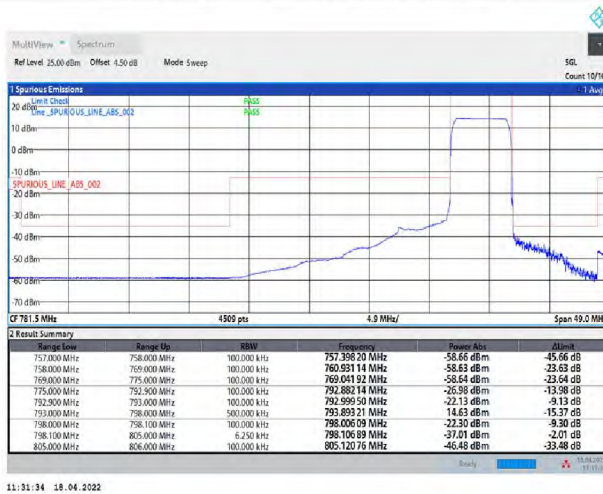
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Band14-5MHz-QPSK-23355-1RB#24



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

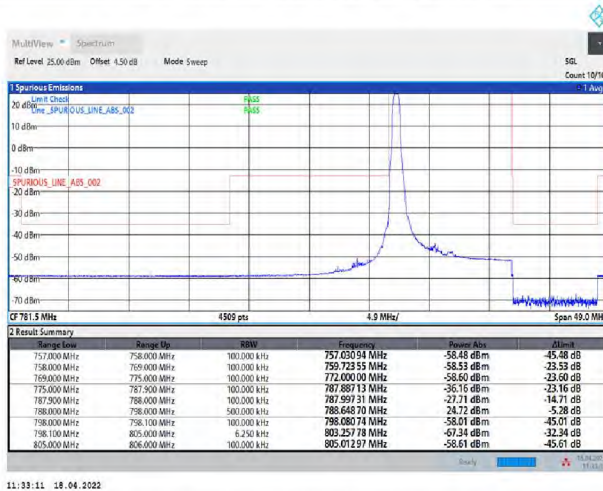


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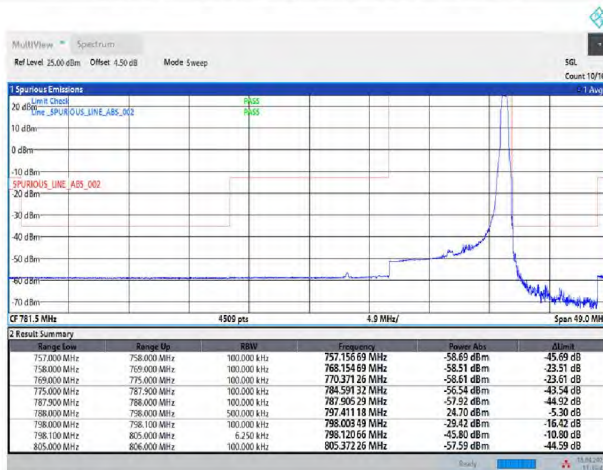
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Band14-10MHz-QPSK-23330-1RB#0



11:33:11 18.04.2022

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



11:36:41 18.04.2022



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



11:34:46 18.04.2022



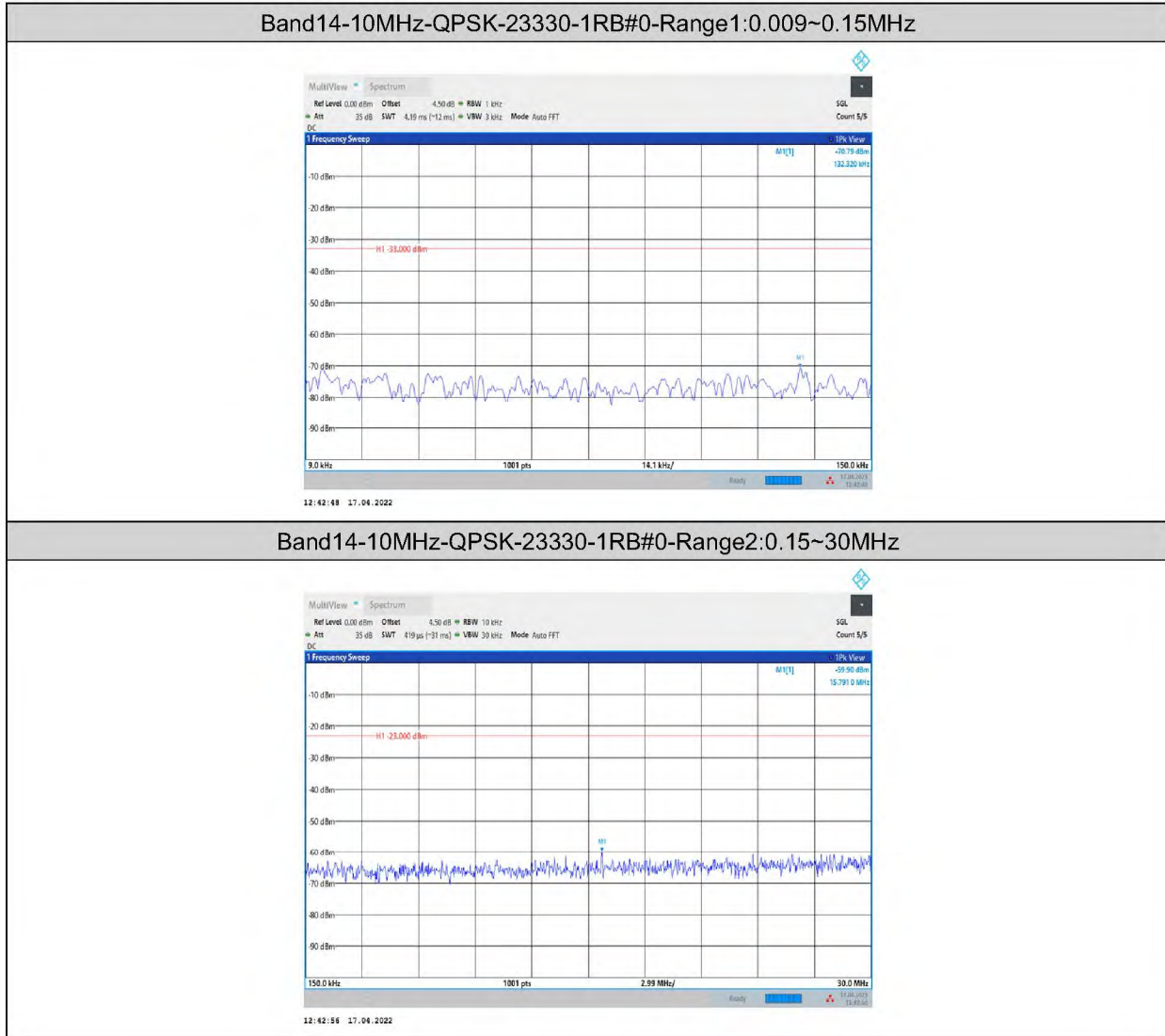
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Conducted Spurious Emission

Test Graphs

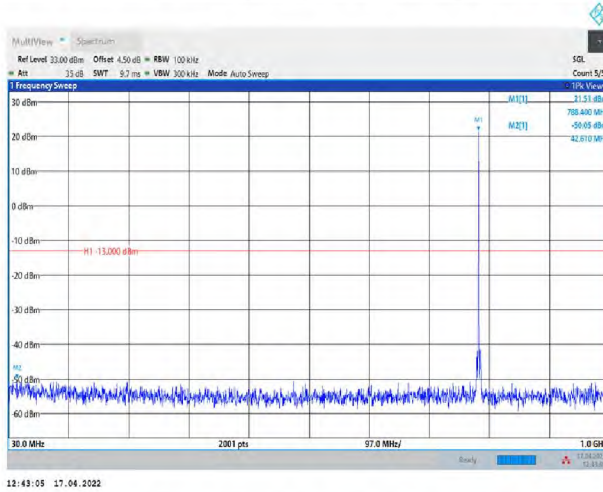


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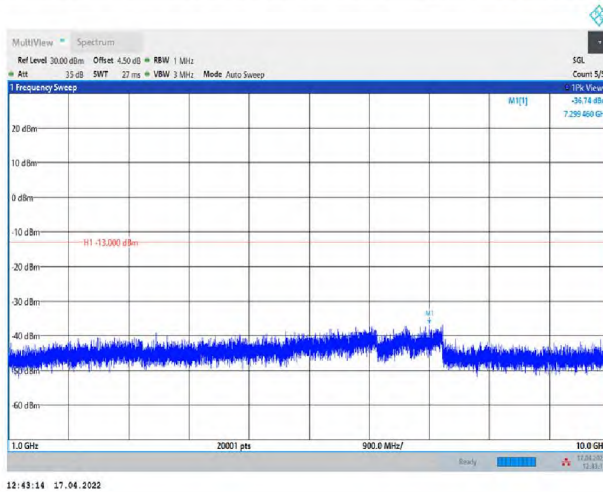
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Band14-10MHz-QPSK-23330-1RB#0-Range3:30~1000MHz



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



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Field Strength of Spurious Radiation

Test Band = LTE Band 14 BW 10M_ TM1

Test Channel = Mid Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1577.18	62.78	-	-55.42	-40.00	15.42	263	122	Horizontal
2	2365.77	65.48	-	-49.75	-13.00	36.75	251	122	Horizontal
3	3154.36	51.20	-	-60.91	-13.00	47.91	175	3	Horizontal
4	3942.95	49.93	-	-60.38	-13.00	47.38	265	182	Horizontal
5	4731.54	49.81	-	-58.06	-13.00	45.06	255	261	Horizontal
6	5520.13	50.93	-	-55.42	-13.00	42.42	144	360	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1577.18	54.68	-	-63.52	-40.00	23.52	263	96	Vertical
2	2365.77	54.25	-	-60.98	-13.00	47.98	251	11	Vertical
3	3154.36	51.81	-	-60.30	-13.00	47.30	175	39	Vertical
4	3942.95	49.70	-	-60.61	-13.00	47.61	264	190	Vertical
5	4731.54	50.99	-	-56.88	-13.00	43.88	144	22	Vertical
6	5520.13	49.78	-	-56.57	-13.00	43.57	177	332	Vertical



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Test Band = LTE Band 14 BW 5M_ TM1

Test Channel = Low Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1576.68	63.30	-	-54.90	-40.00	14.90	263	60	Horizontal
2	2365.02	65.35	-	-49.88	-13.00	36.88	251	124	Horizontal
3	3153.36	51.23	-	-60.89	-13.00	47.89	174	295	Horizontal
4	3941.7	50.89	-	-59.43	-13.00	46.43	162	153	Horizontal
5	4730.04	49.85	-	-58.03	-13.00	45.03	254	309	Horizontal
6	5518.38	51.45	-	-54.91	-13.00	41.91	177	356	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1576.68	53.54	-	-64.66	-40.00	24.66	263	19	Vertical
2	2365.02	54.35	-	-60.88	-13.00	47.88	251	96	Vertical
3	3153.36	52.82	-	-59.30	-13.00	46.30	142	25	Vertical
4	3941.7	51.46	-	-58.86	-13.00	45.86	264	111	Vertical
5	4730.04	50.70	-	-57.18	-13.00	44.18	186	19	Vertical
6	5518.38	50.61	-	-55.75	-13.00	42.75	241	235	Vertical



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Test Band = LTE Band 14 BW 5M_ TM1

Test Channel = Mid Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1581.68	62.65	-	-55.54	-40.00	15.54	263	76	Horizontal
2	2372.4444	67.10	-	-48.12	-13.00	35.12	251	123	Horizontal
3	3163.36	50.20	-	-61.89	-13.00	48.89	142	28	Horizontal
4	3954.2	50.14	-	-60.14	-13.00	47.14	263	59	Horizontal
5	4745.04	49.94	-	-57.91	-13.00	44.91	322	76	Horizontal
6	5535.88	50.78	-	-55.51	-13.00	42.51	144	76	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1581.68	54.39	-	-63.80	-40.00	23.80	263	271	Vertical
2	2372.52	52.60	-	-62.62	-13.00	49.62	241	86	Vertical
3	3163.36	51.72	-	-60.37	-13.00	47.37	175	54	Vertical
4	3954.2	50.85	-	-59.43	-13.00	46.43	262	145	Vertical
5	4745.04	49.47	-	-58.38	-13.00	45.38	251	241	Vertical
6	5535.88	49.58	-	-56.71	-13.00	43.71	147	145	Vertical



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Test Band = LTE Band 14 BW 5M_ TM1
Test Channel = High Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1586.6667	64.10	-	-54.09	-40.00	14.09	263	138	Horizontal
2	2380.02	67.45	-	-47.75	-13.00	34.75	241	138	Horizontal
3	3173.36	51.26	-	-60.81	-13.00	47.81	176	264	Horizontal
4	3966.7	49.95	-	-60.30	-13.00	47.30	264	30	Horizontal
5	4760.04	49.97	-	-57.85	-13.00	44.85	172	340	Horizontal
6	5553.38	49.91	-	-56.30	-13.00	43.30	263	106	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1586.68	53.36	-	-64.83	-40.00	24.83	263	192	Vertical
2	2380	56.08	-	-59.12	-13.00	46.12	241	283	Vertical
3	3173.36	51.76	-	-60.31	-13.00	47.31	176	5	Vertical
4	3966.7	49.89	-	-60.36	-13.00	47.36	264	176	Vertical
5	4760.04	50.80	-	-57.02	-13.00	44.02	144	37	Vertical
6	5553.38	50.17	-	-56.04	-13.00	43.04	268	192	Vertical



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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	-1.20	-0.001513	PASS
Band14	10MHz	QPSK	23330	50RB#0	VN	NT	-0.40	-0.000504	PASS
Band14	10MHz	QPSK	23330	50RB#0	VH	NT	-1.20	-0.001513	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band14	10MHz	QPSK	23330	50RB#0	NV	-30	-0.50	-0.000631	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	-20	-0.50	-0.000631	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	-10	-0.60	-0.000757	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	0	-1.90	-0.002396	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	10	-0.20	-0.000252	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	20	-1.00	-0.001261	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	30	-1.10	-0.001387	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	40	-1.30	-0.001639	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	50	-0.80	-0.001009	PASS

The End

