

Report No.: SEWA2205000012RG01

Rev.: 01

Page: 1 of 24

Appendix B.6

LTE Band 13



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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
Band13	5MHz	QPSK	23205	1RB#0	23.01	24.49	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#12	23.14	24.62	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#24	23.01	24.49	34.77	PASS
Band13	5MHz	QPSK	23205	25RB#0	22.15	23.63	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#0	23.08	24.56	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#12	23.14	24.62	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#24	22.98	24.46	34.77	PASS
Band13	5MHz	QPSK	23230	25RB#0	22.15	23.63	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#0	22.01	23.49	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#12	22.85	24.33	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#24	22.65	24.13	34.77	PASS
Band13	5MHz	QPSK	23255	25RB#0	22.12	23.6	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#0	22.36	23.84	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#12	22.54	24.02	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#24	22.43	23.91	34.77	PASS
Band13	5MHz	16QAM	23205	25RB#0	21.36	22.84	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#0	22.55	24.03	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#12	22.36	23.84	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#24	22.45	23.93	34.77	PASS
Band13	5MHz	16QAM	23230	25RB#0	21.45	22.93	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#0	22.14	23.62	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#12	22.33	23.81	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#24	22.41	23.89	34.77	PASS
Band13	5MHz	16QAM	23255	25RB#0	21.45	22.93	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#0	23.00	24.48	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#24	23.05	24.53	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#49	23.22	24.7	34.77	PASS
Band13	10MHz	QPSK	23230	50RB#0	22.41	23.89	34.77	PASS



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Rev.: 01

Page: 3 of 24

Band13	10MHz	16QAM	23230	1RB#0	23.01	24.49	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#24	22.54	24.02	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#49	22.56	24.04	34.77	PASS
Band13	10MHz	16QAM	23230	50RB#0	21.78	23.26	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
Band13	10MHz	QPSK	23230	50RB#0	5.60	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	6.44	13	PASS



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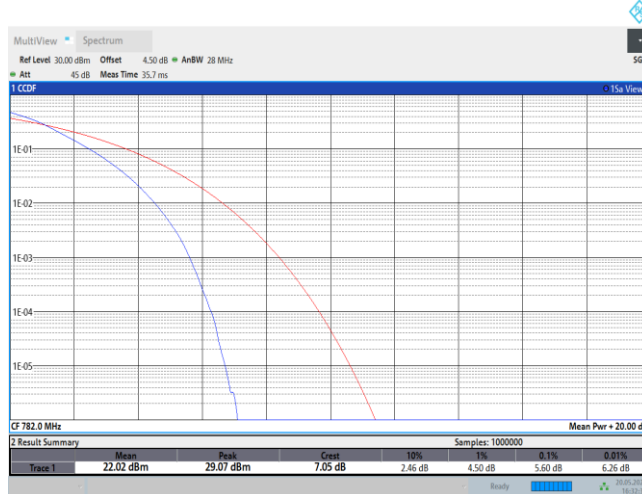
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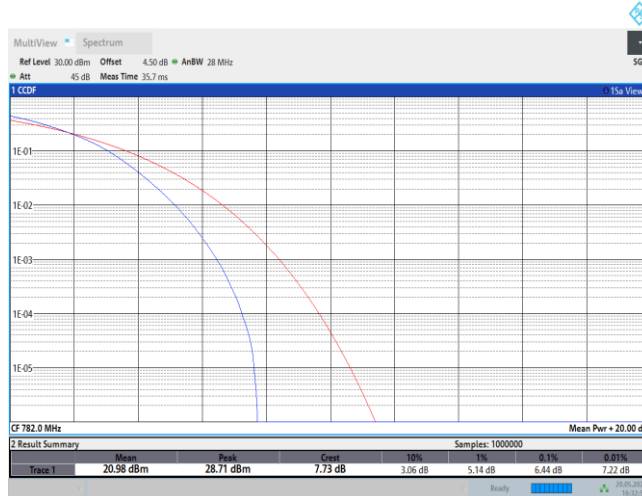
Test Graphs

Band13-10MHz-QPSK-23230-50RB#0



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Band13-10MHz-16QAM-23230-50RB#0



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Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band13	10MHz	QPSK	23230	50RB#0	PASS	PASS
Band13	10MHz	16QAM	23230	50RB#0	PASS	PASS



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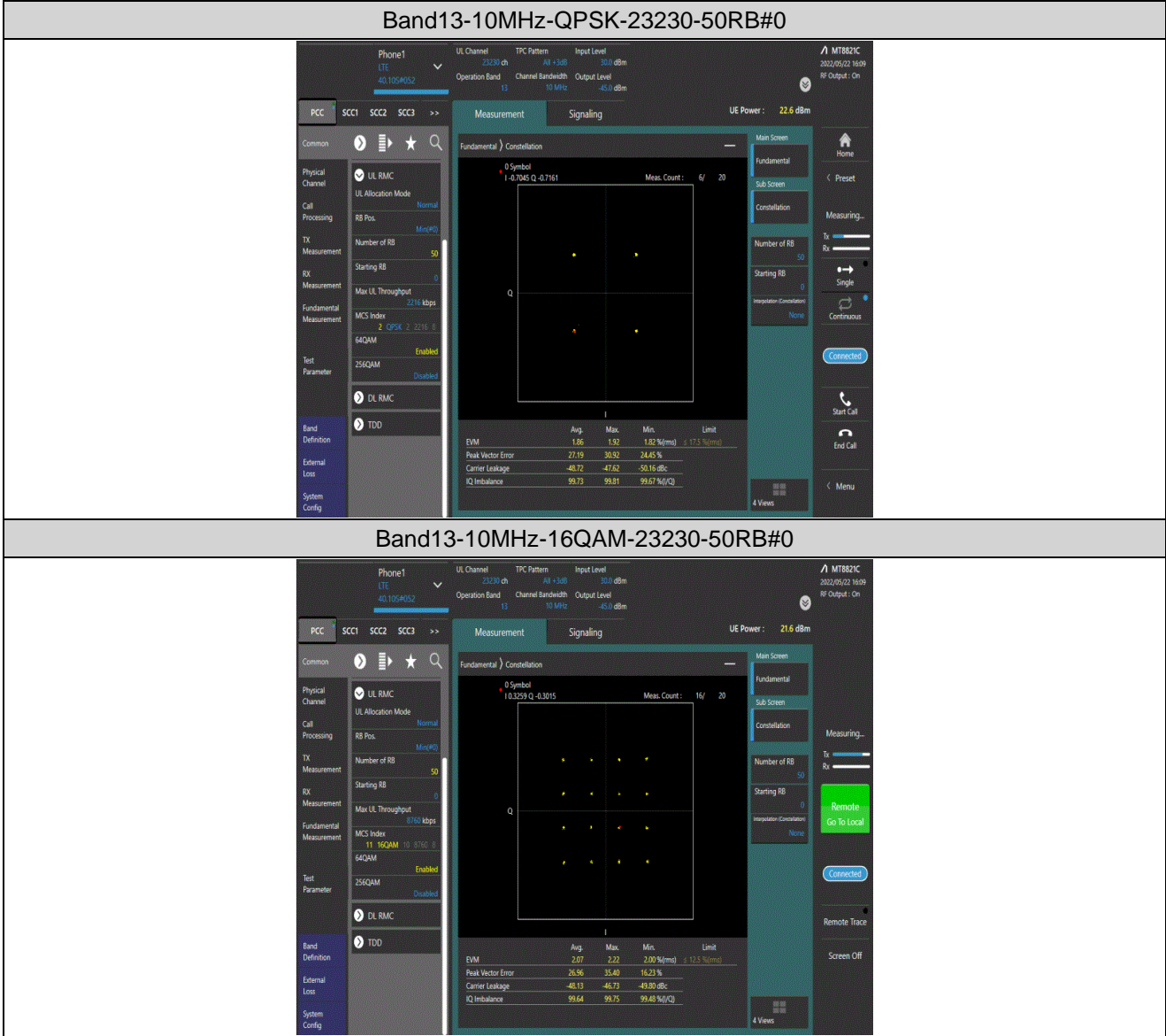
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Test Graphs



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.466	4.88	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.464	4.88	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.477	4.91	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.465	4.90	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.457	4.88	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.474	4.91	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.895	9.62	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.882	9.60	PASS



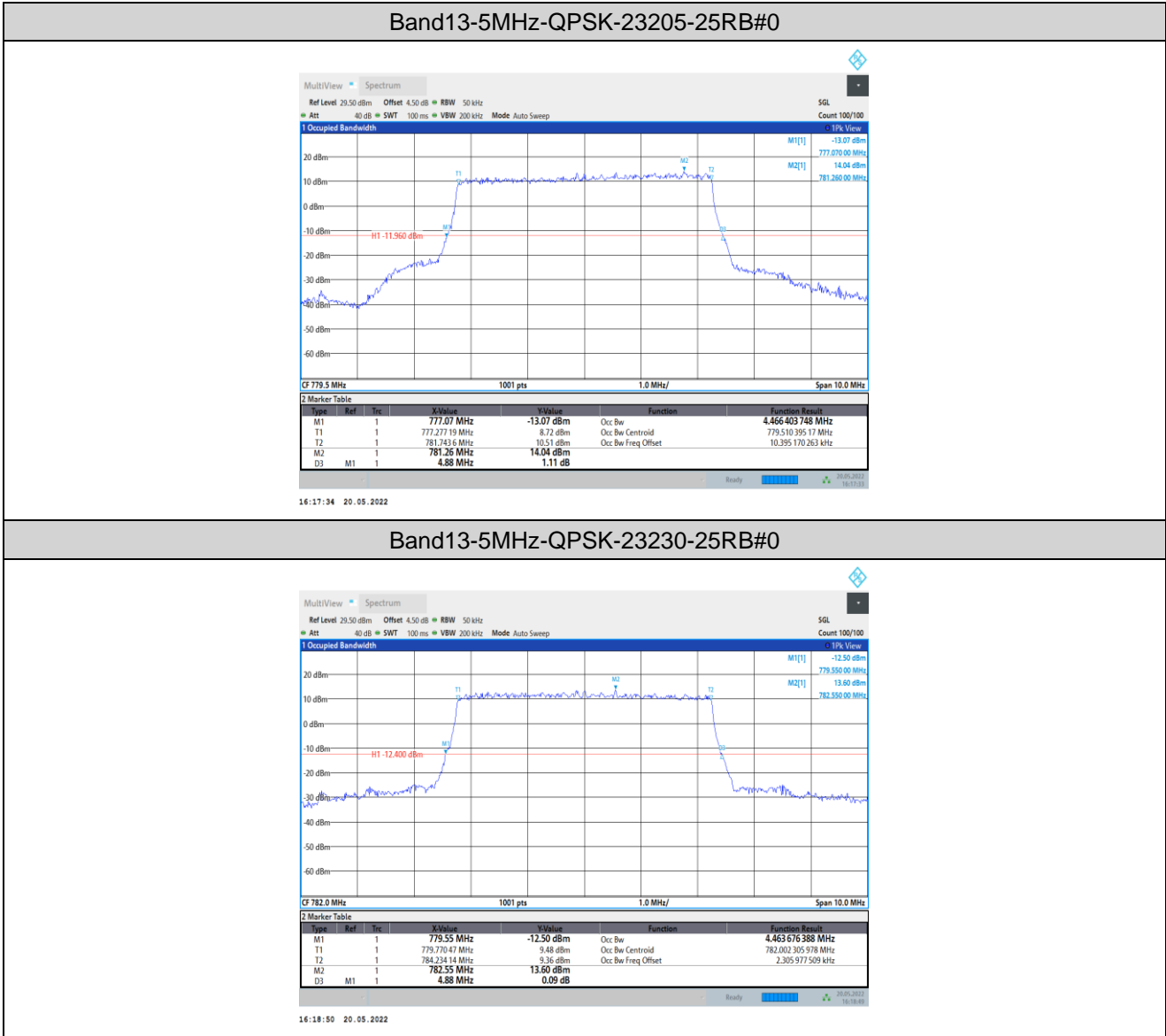
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Test Graphs

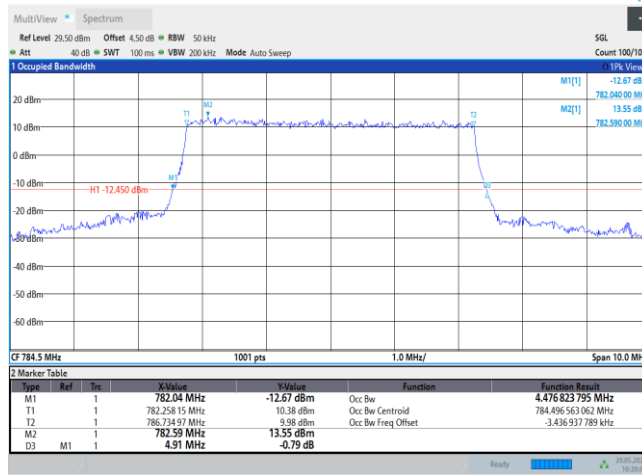


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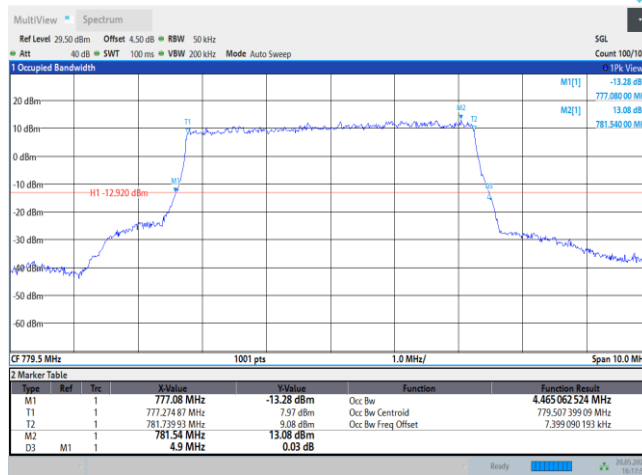
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Band13-5MHz-QPSK-23255-25RB#0



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Band13-5MHz-16QAM-23205-25RB#0



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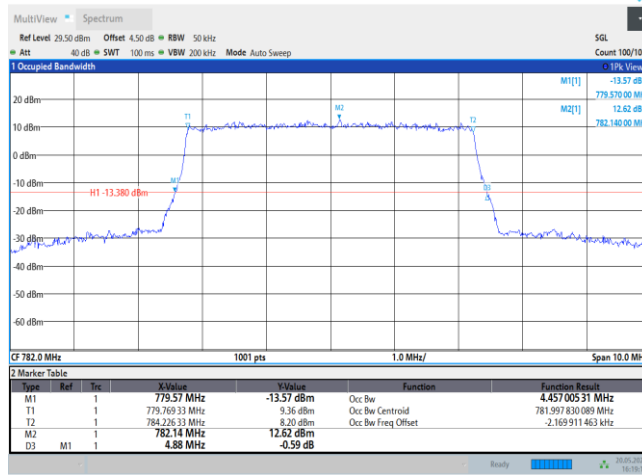


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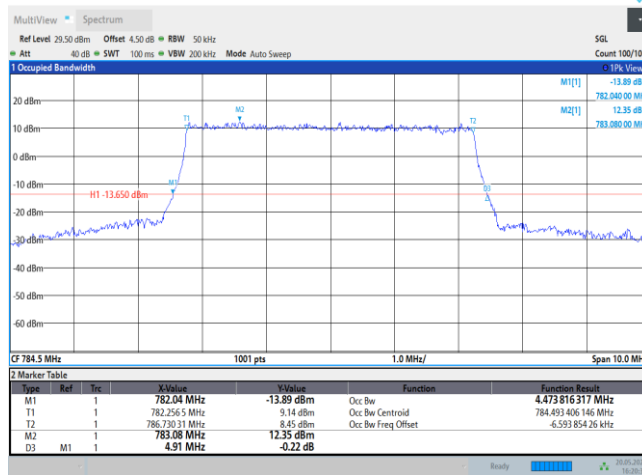
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Band13-5MHz-16QAM-23230-25RB#0



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Band13-5MHz-16QAM-23255-25RB#0



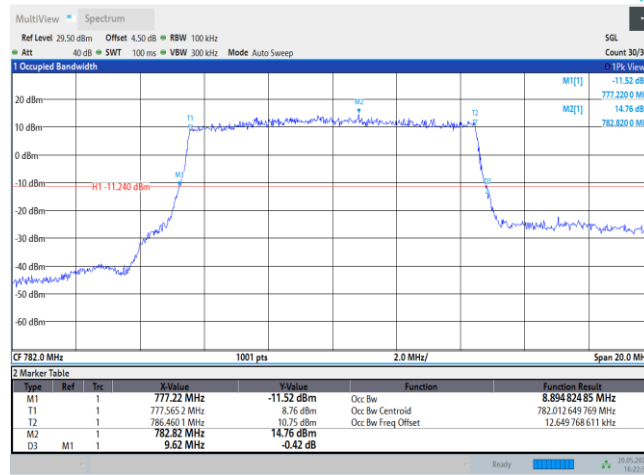
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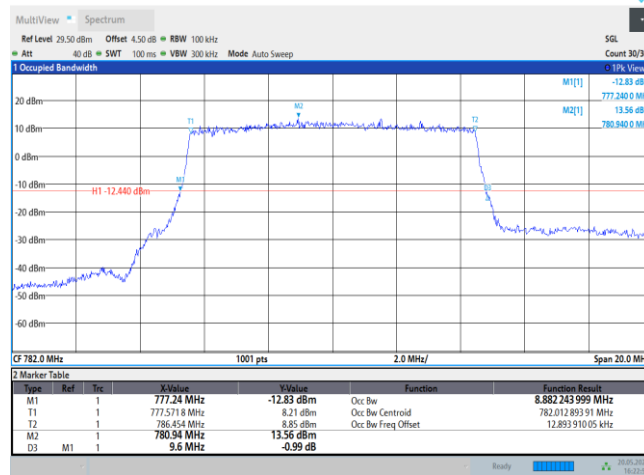
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Band13-10MHz-QPSK-23230-50RB#0



16:22:37 20.05.2022

Band13-10MHz-16QAM-23230-50RB#0



16:22:55 20.05.2022



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Band Edge

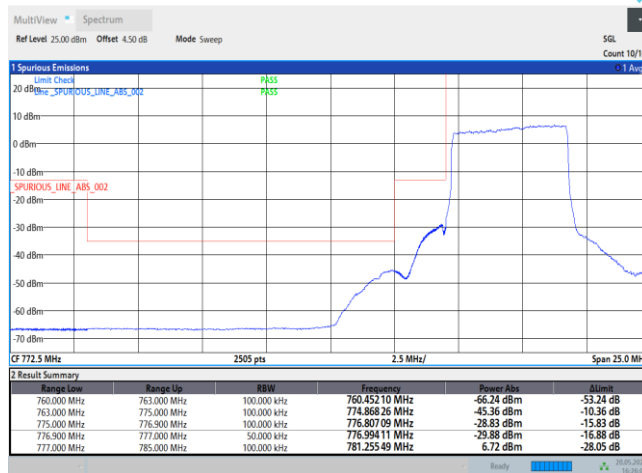
Test Graphs

Band13-5MHz-QPSK-23205-1RB#0



16:25:19 20.05.2022

Band13-5MHz-QPSK-23205-25RB#0



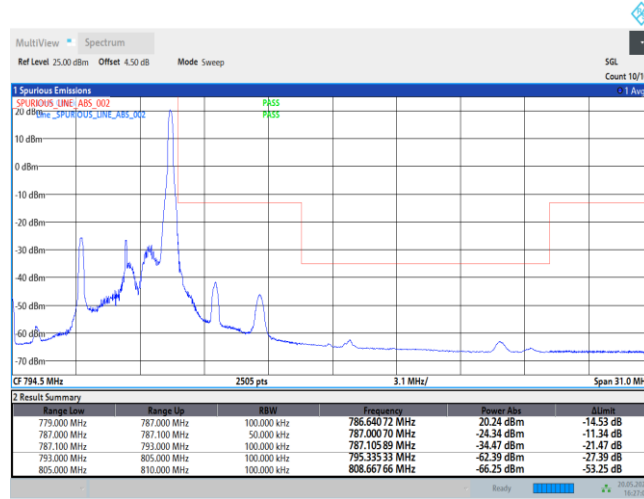
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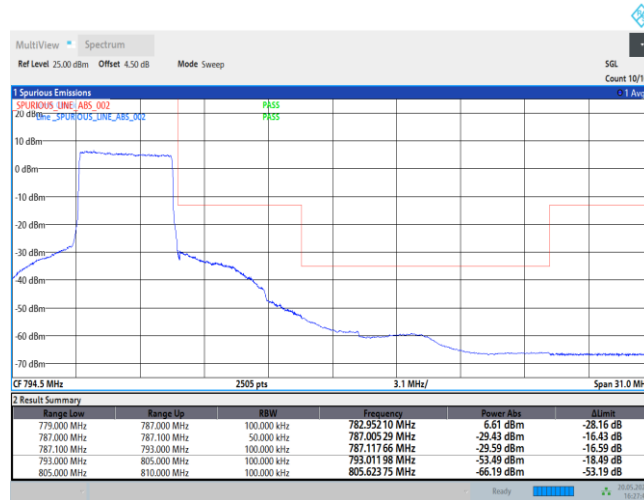
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Band13-5MHz-QPSK-23255-1RB#24



16:27:06 20.05.2022

Band13-5MHz-QPSK-23255-25RB#0



16:27:48 20.05.2022



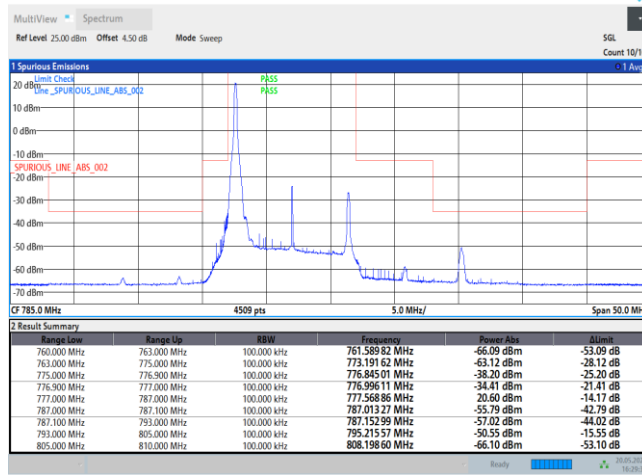
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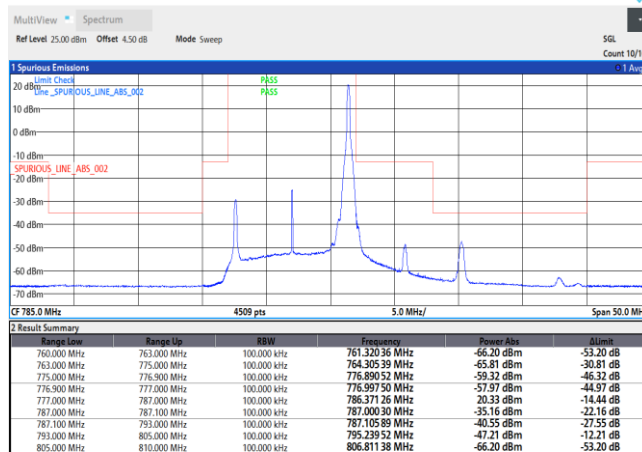
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Band13-10MHz-QPSK-23230-1RB#0



16:29:31 20.05.2022

Band13-10MHz-QPSK-23230-1RB#49



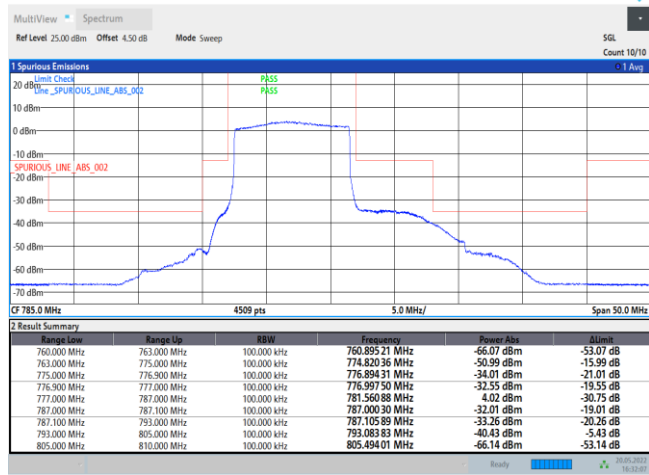
16:31:19 20.05.2022



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Band13-10MHz-QPSK-23230-50RB#0



16:32:08 20.05.2022



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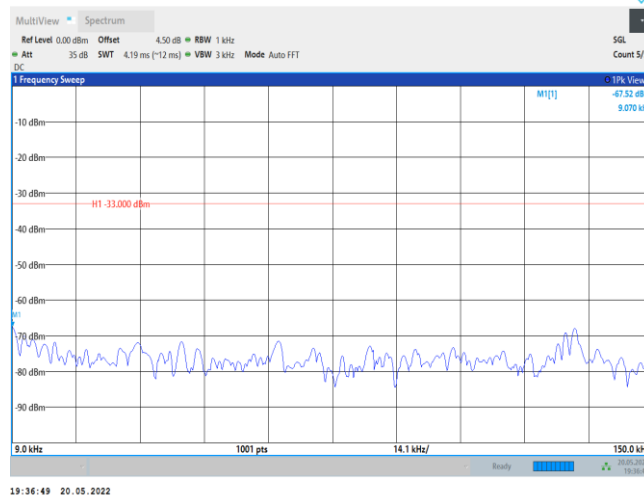
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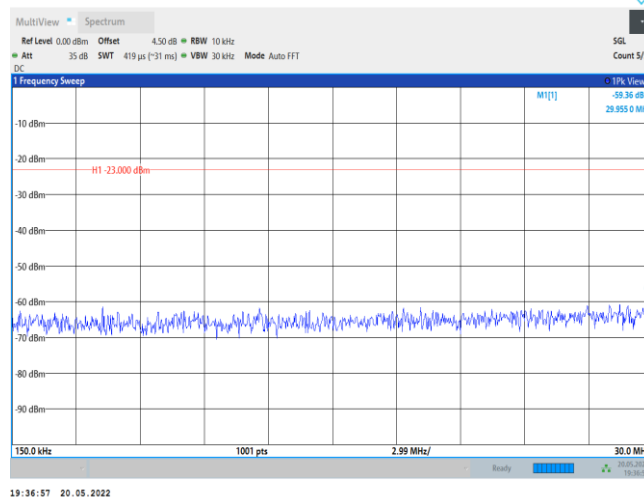
Conducted Spurious Emission

Test Graphs

Band13-10MHz-QPSK-23230-1RB#0-Range1:0.009~0.15MHz



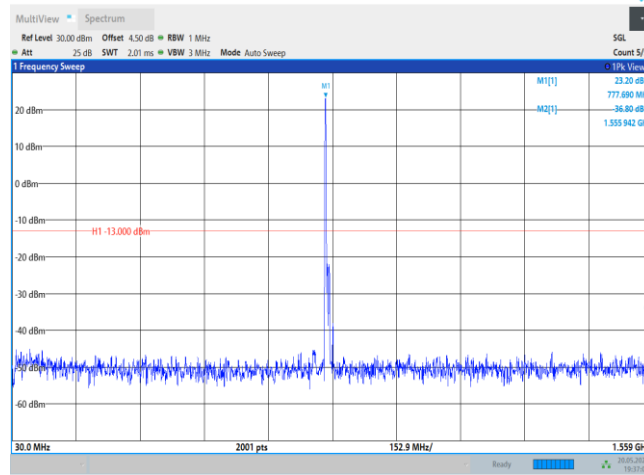
Band13-10MHz-QPSK-23230-1RB#0-Range2:0.15~30MHz



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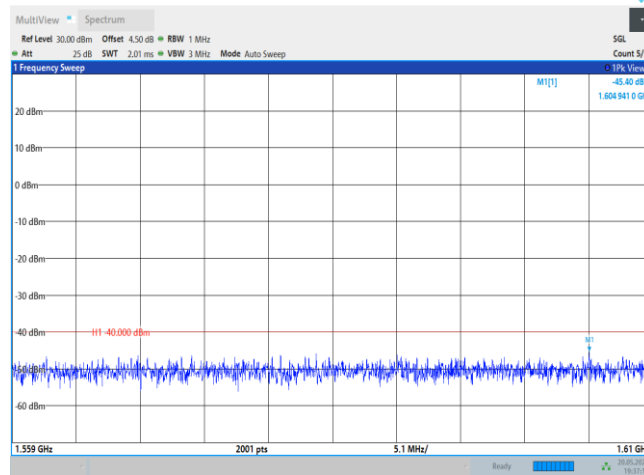
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Band13-10MHz-QPSK-23230-1RB#0-Range3:30~1559MHz



19:37:05 20.05.2022

Band13-10MHz-QPSK-23230-1RB#0-Range4:1559~1610MHz



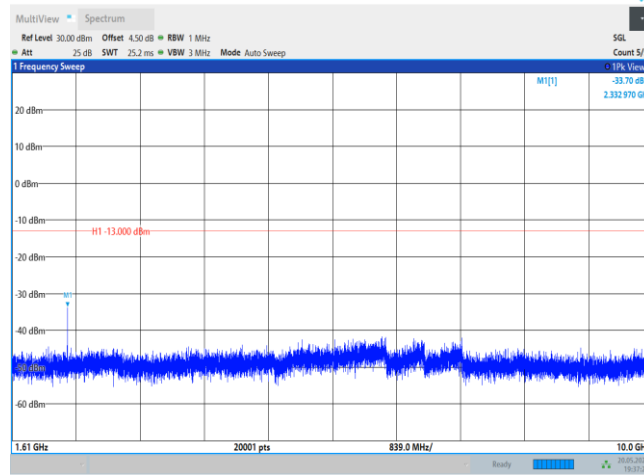
19:37:14 20.05.2022



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Band13-10MHz-QPSK-23230-1RB#0-Range5:1610~10000MHz



19:37:22 20.05.2022



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Field Strength of Spurious Radiation

Test Band = LTE Band13_10M_TM1

Test Channel = Mid

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	544.1300	53.23	-116.99	-63.76	-13.00	50.76	145	301	Horizontal
2	1555.1800	53.29	-118.15	-64.86	-13.00	51.86	236	50	Horizontal
3	2332.7700	69.75	-115.34	-45.59	-13.00	32.59	258	358	Horizontal
4	3110.3600	51.78	-112.43	-60.65	-13.00	47.65	147	79	Horizontal
5	3887.9500	52.68	-110.94	-58.26	-13.00	45.26	196	146	Horizontal
6	4665.5400	48.76	-109.15	-60.39	-13.00	47.39	173	50	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	544.1300	52.80	-116.99	-64.19	-13.00	51.19	231	213	Vertical
2	1555.1800	53.51	-118.15	-64.64	-13.00	51.64	209	88	Vertical
3	2332.7700	58.49	-115.34	-56.85	-13.00	43.85	183	68	Vertical
4	3110.3600	51.65	-112.43	-60.78	-13.00	47.78	175	280	Vertical
5	3887.9500	54.35	-110.94	-56.59	-13.00	43.59	149	29	Vertical
6	4665.5400	49.28	-109.15	-59.87	-13.00	46.87	190	79	Vertical



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Test Band = LTE Band13_5M_TM1

Test Channel = Low

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1554.6800	52.81	-118.15	-65.34	-13.00	52.34	214	128	Horizontal
2	2332	68.34	-115.34	-47.00	-13.00	34.00	175	359	Horizontal
3	3109.3600	50.85	-112.43	-61.58	-13.00	48.58	194	331	Horizontal
4	3886.7000	51.09	-110.95	-59.86	-13.00	46.86	173	13	Horizontal
5	4664.0400	47.86	-109.15	-61.29	-13.00	48.29	256	283	Horizontal
6	5441.3800	48.43	-107.46	-59.03	-13.00	46.03	149	4	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1554.6800	54.63	-118.15	-63.52	-13.00	50.52	277	79	Vertical
2	2332.0200	56.81	-115.34	-58.53	-13.00	45.53	184	224	Vertical
3	3109.3600	52.58	-112.43	-59.85	-13.00	46.85	194	166	Vertical
4	3886.7000	54.30	-110.95	-56.65	-13.00	43.65	176	31	Vertical
5	4664.0400	48.70	-109.15	-60.45	-13.00	47.45	125	166	Vertical
6	5441.3800	48.40	-107.46	-59.06	-13.00	46.06	143	88	Vertical



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Test Band = LTE Band13_5M_TM1

Test Channel = Mid

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1559.6800	51.90	-118.15	-66.25	-40.00	26.25	206	51	Horizontal
2	2339.5200	65.09	-115.33	-50.24	-13.00	37.24	255	354	Horizontal
3	3119.3600	50.72	-112.37	-61.65	-13.00	48.65	144	118	Horizontal
4	3899.2000	50.18	-110.93	-60.75	-13.00	47.75	196	71	Horizontal
5	4679.0400	49.21	-109.11	-59.90	-13.00	46.90	175	273	Horizontal
6	5458.8800	49.19	-107.47	-58.28	-13.00	45.28	238	224	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1559.6800	52.63	-118.15	-65.52	-40.00	25.52	255	58	Vertical
2	2339.5200	55.51	-115.33	-59.82	-13.00	46.82	148	309	Vertical
3	3119.3600	51.49	-112.37	-60.88	-13.00	47.88	175	183	Vertical
4	3899.2000	53.70	-110.93	-57.23	-13.00	44.23	193	30	Vertical
5	4679.0400	48.16	-109.11	-60.95	-13.00	47.95	254	30	Vertical
6	5458.8800	48.11	-107.47	-59.36	-13.00	46.36	179	202	Vertical



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Test Band = LTE Band13_5M_TM1

Test Channel = High

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1564.6800	51.46	-118.16	-66.70	-40.00	26.7	199	354	Horizontal
2	2347.0200	71.43	-115.32	-43.89	-13.00	30.89	145	360	Horizontal
3	3129.3600	50.70	-112.31	-61.61	-13.00	48.61	178	264	Horizontal
4	3911.7000	50.22	-110.89	-60.67	-13.00	47.67	122	253	Horizontal
5	4694.0400	48.77	-109.06	-60.29	-13.00	47.29	233	118	Horizontal
6	5476.3800	48.80	-107.48	-58.68	-13.00	45.68	214	128	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1564.6800	50.77	-118.16	-67.39	-40.00	27.39	156	319	Vertical
2	2347.0200	59.20	-115.32	-56.12	-13.00	43.12	194	70	Vertical
3	3129.3600	51.08	-112.31	-61.23	-13.00	48.23	178	185	Vertical
4	3911.7000	51.64	-110.89	-59.25	-13.00	46.25	254	52	Vertical
5	4694.0400	48.65	-109.06	-60.41	-13.00	47.41	172	45	Vertical
6	5476.3800	48.37	-107.48	-59.11	-13.00	46.11	238	2	Vertical



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Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	VL	NT	2.40	0.003069	PASS
Band13	10MHz	QPSK	23230	50RB#0	VN	NT	1.40	0.001790	PASS
Band13	10MHz	QPSK	23230	50RB#0	VH	NT	0.80	0.001023	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	NV	-30	-0.50	-0.000639	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-20	-1.90	-0.002430	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-10	-0.40	-0.000512	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	0	-1.90	-0.002430	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	10	1.00	0.001279	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	20	-1.90	-0.002430	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	30	-2.00	-0.002558	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	40	0.30	0.000384	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	50	-0.90	-0.001151	PASS

The End



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