

Report No.: XEWM2305000213RG01

Rev.: 01

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Appendix B.4

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	22.31	19.2	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#12	23.27	20.16	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#24	23.34	20.23	34.77	PASS
Band13	5MHz	QPSK	23205	25RB#0	22.2	19.09	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#0	23.47	20.36	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#12	23.11	20	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#24	23.17	20.06	34.77	PASS
Band13	5MHz	QPSK	23230	25RB#0	22.02	18.91	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#0	23.3	20.19	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#12	23.3	20.19	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#24	23.33	20.22	34.77	PASS
Band13	5MHz	QPSK	23255	25RB#0	22.28	19.17	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#0	22.02	18.91	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#12	22.38	19.27	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#24	22.37	19.26	34.77	PASS
Band13	5MHz	16QAM	23205	25RB#0	21.26	18.15	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#0	22.39	19.28	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#12	22.08	18.97	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#24	22.1	18.99	34.77	PASS
Band13	5MHz	16QAM	23230	25RB#0	21.04	17.93	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#0	22.41	19.3	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#12	22.48	19.37	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#24	22.75	19.64	34.77	PASS
Band13	5MHz	16QAM	23255	25RB#0	21.3	18.19	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#0	22.94	19.83	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#24	23.1	19.99	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#49	23.12	20.01	34.77	PASS



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Band13	10MHz	QPSK	23230	50RB#0	22.29	19.18	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#0	21.92	18.81	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#24	22.21	19.1	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#49	22.27	19.16	34.77	PASS
Band13	10MHz	16QAM	23230	27RB#0	22.08	18.97	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	5.46	13	PASS
Band13	10MHz	16QAM	23230	27RB#0	5.98	13	PASS

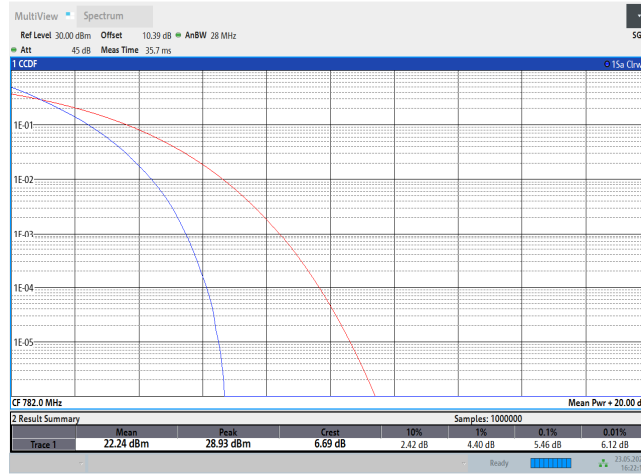


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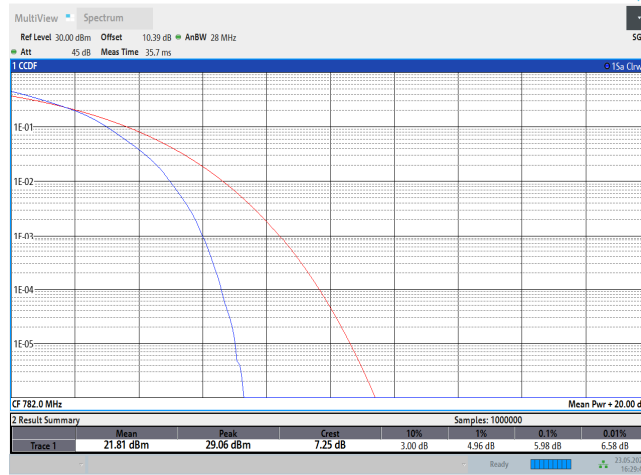
Test Graphs

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



16:22:19 23. 05. 2023

Band13-10MHz-16QAM-23230-27RB#0



16:29:43 23. 05. 2023



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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	27RB#0	PASS	PASS

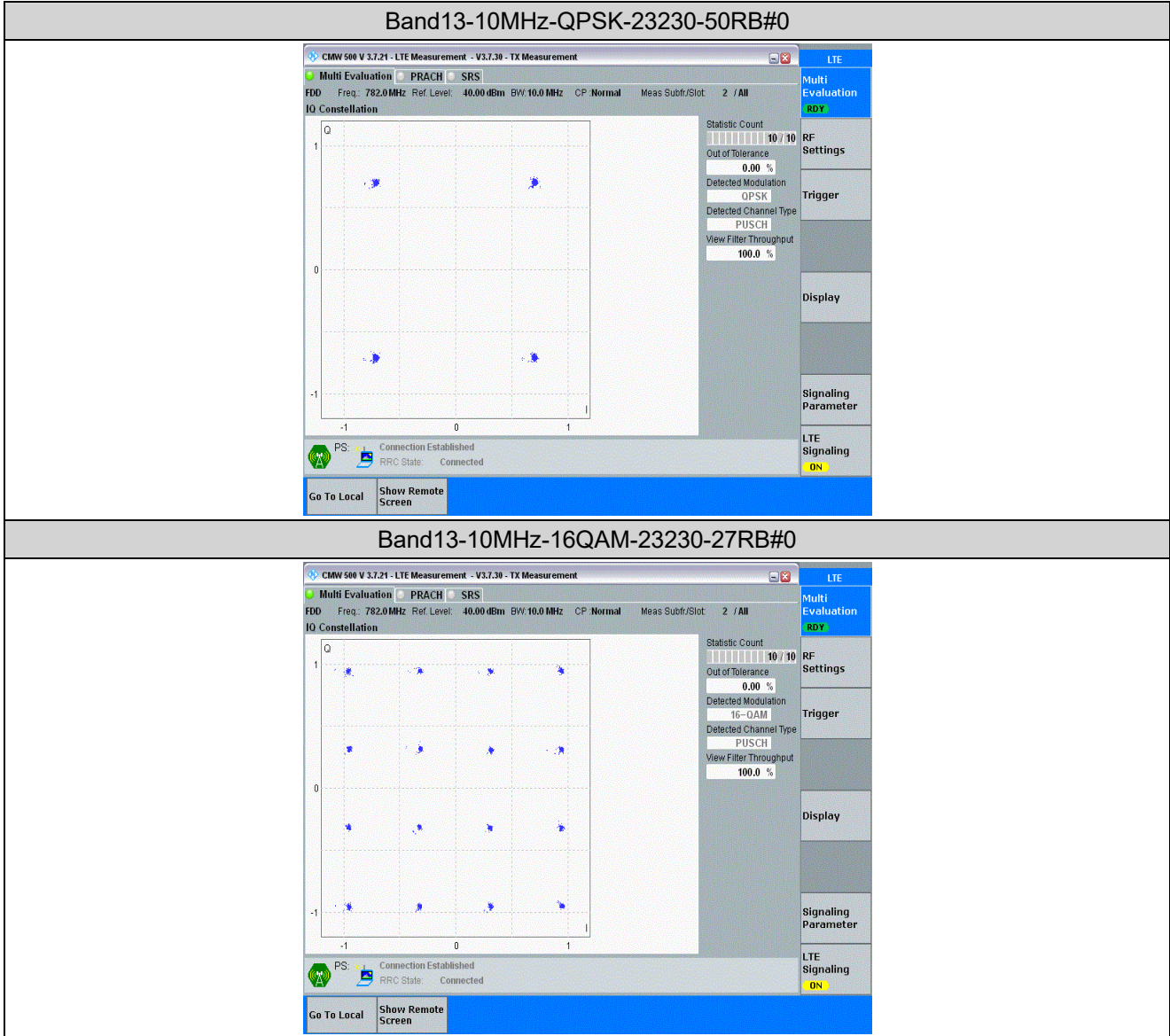


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Test Graphs



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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	4.455	4.93	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.463	4.95	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.453	5.02	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.439	4.88	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.454	4.93	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.461	5.01	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.884	9.48	PASS
Band13	10MHz	16QAM	23230	27RB#0	4.907	6.12	PASS

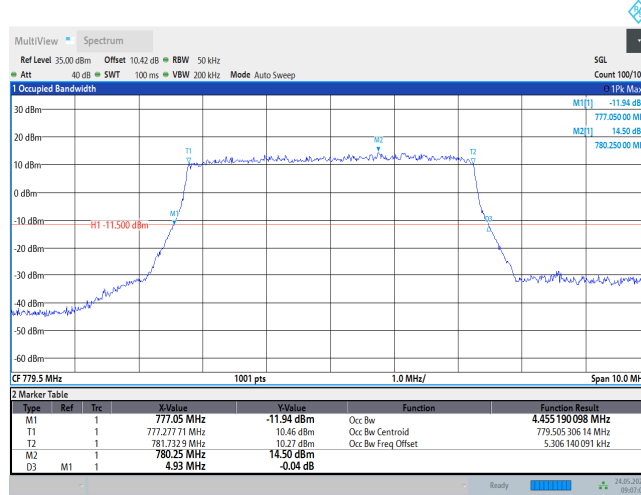


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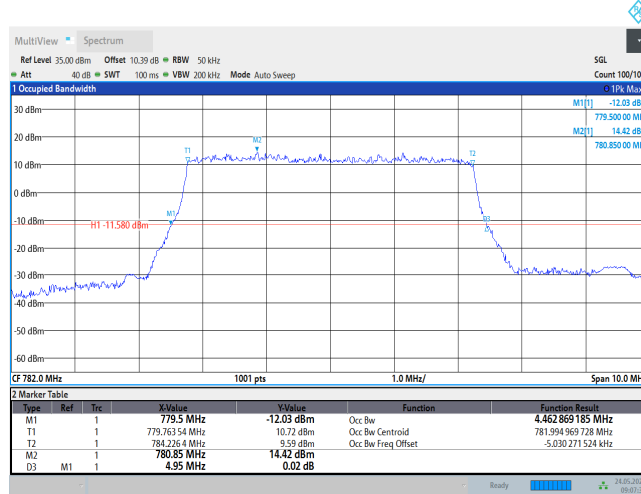
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Test Graphs

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



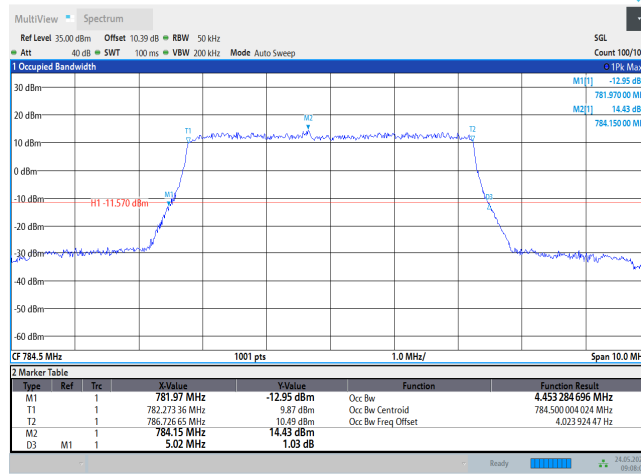
Band13-5MHz-QPSK-23230-25RB#0



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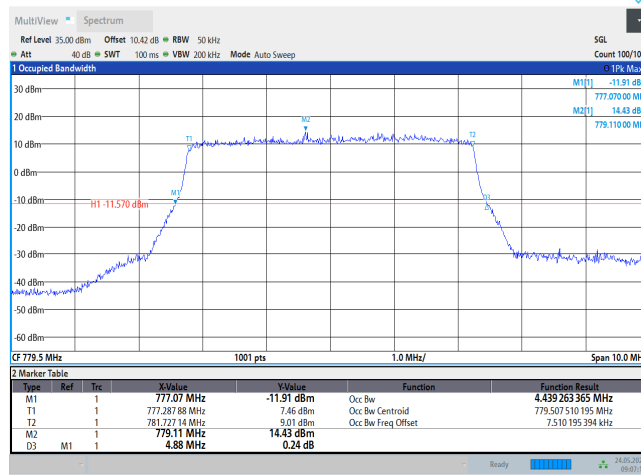
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Band13-5MHz-QPSK-23255-25RB#0



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



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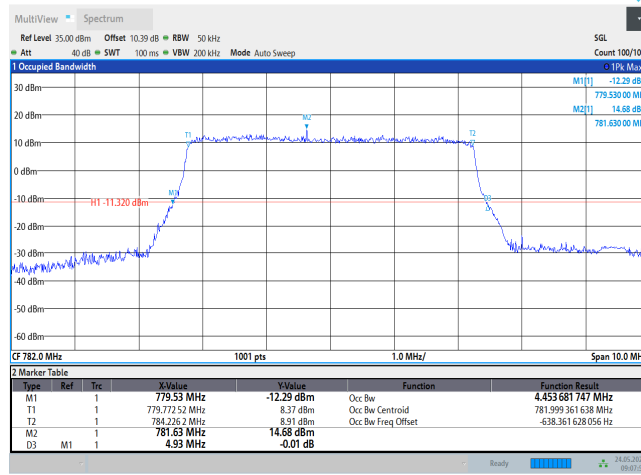


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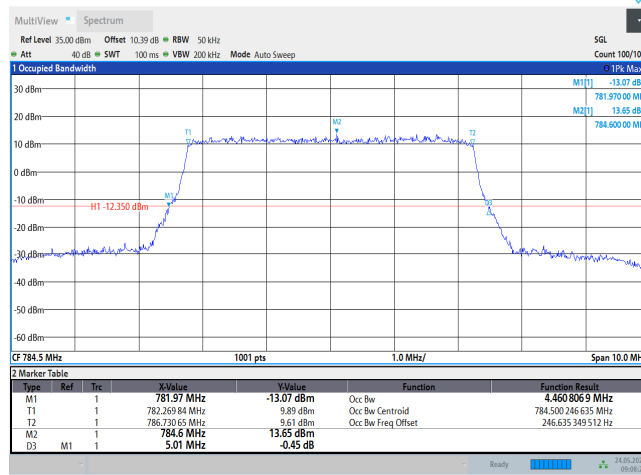
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Band13-5MHz-16QAM-23230-25RB#0



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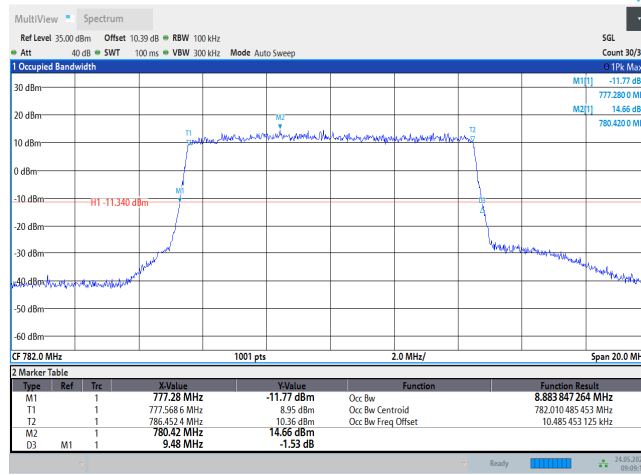
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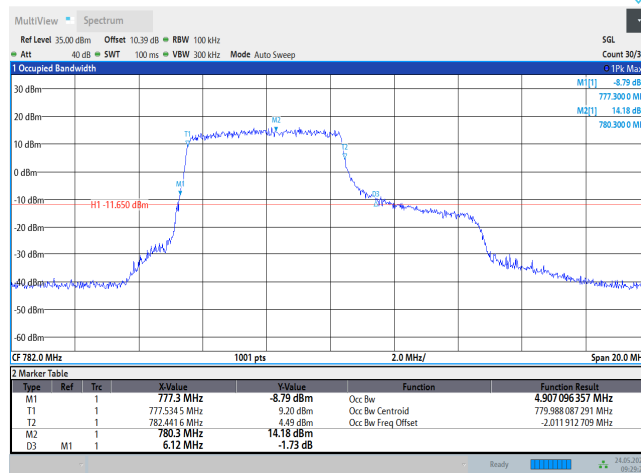
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Band13-10MHz-QPSK-23230-50RB#0



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Band13-10MHz-16QAM-23230-27RB#0



09:29:29 24.05.2023

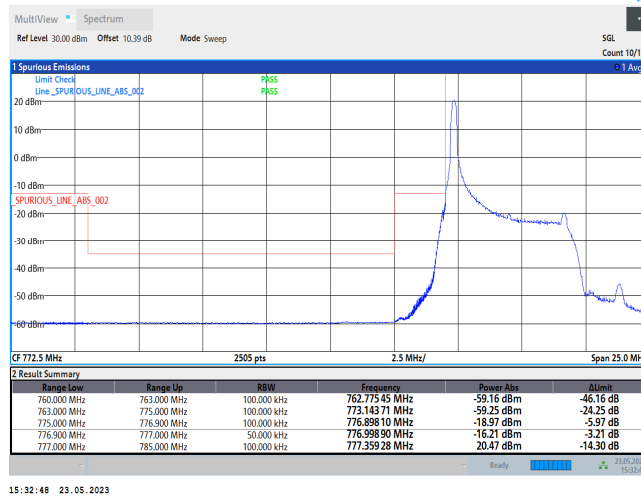


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Band Edge

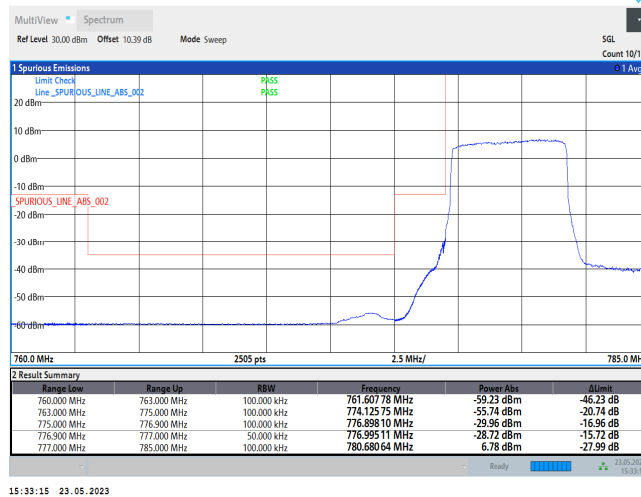
Test Graphs

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



15:32:48 23.05.2023

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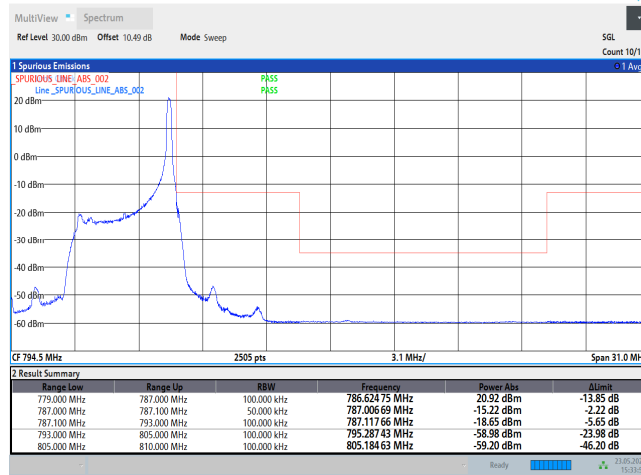
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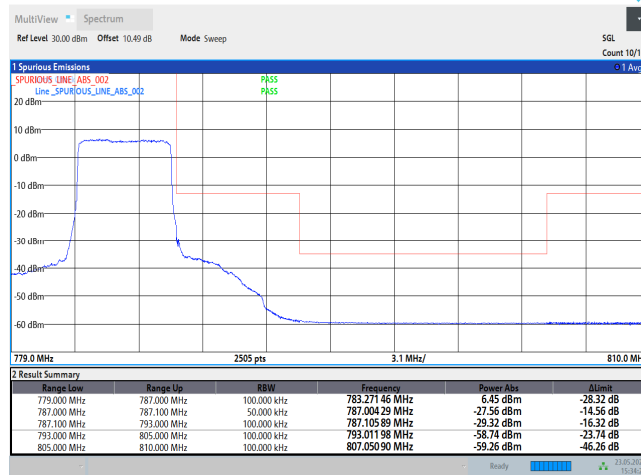
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Band13-5MHz-QPSK-23255-1RB#24



15:34:00 23.05.2023

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



15:34:28 23.05.2023

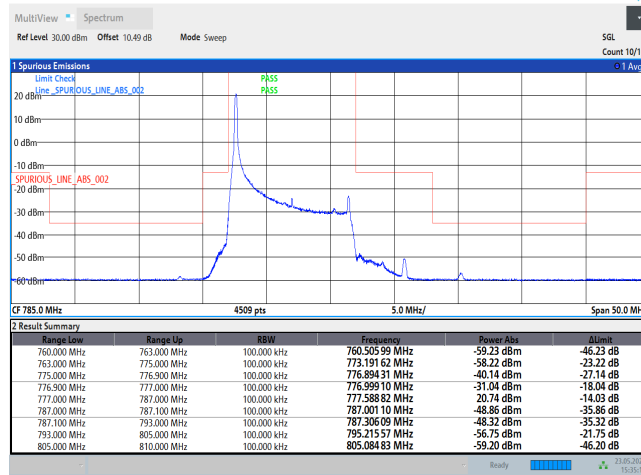


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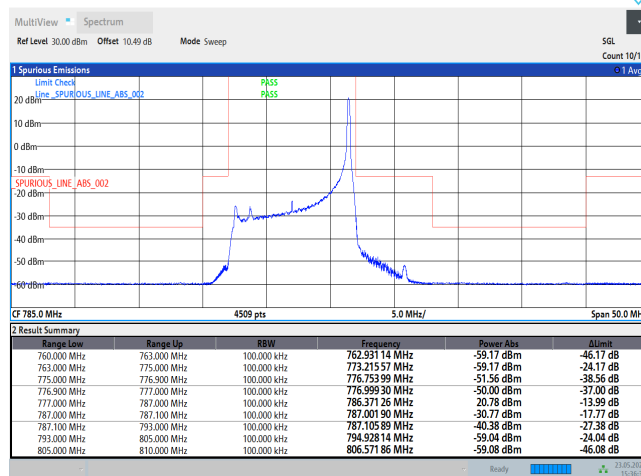
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Band13-10MHz-QPSK-23230-1RB#0



15:35:18 23.05.2023

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



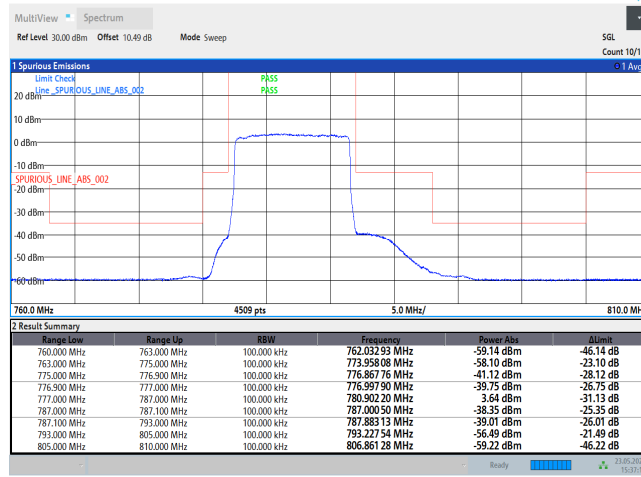
15:36:40 23.05.2023



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



15:37:15 23.05.2023



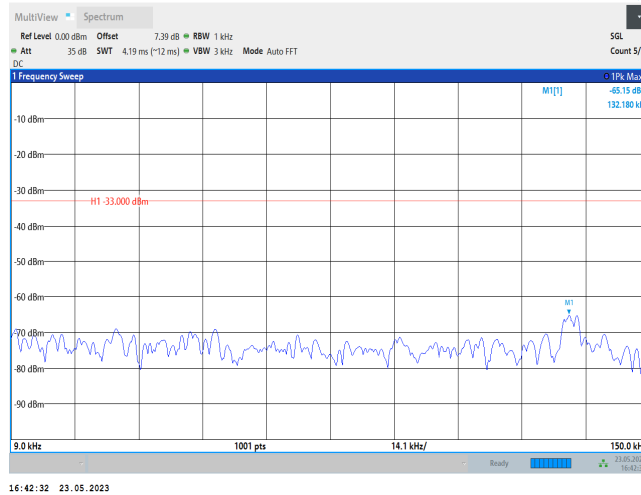
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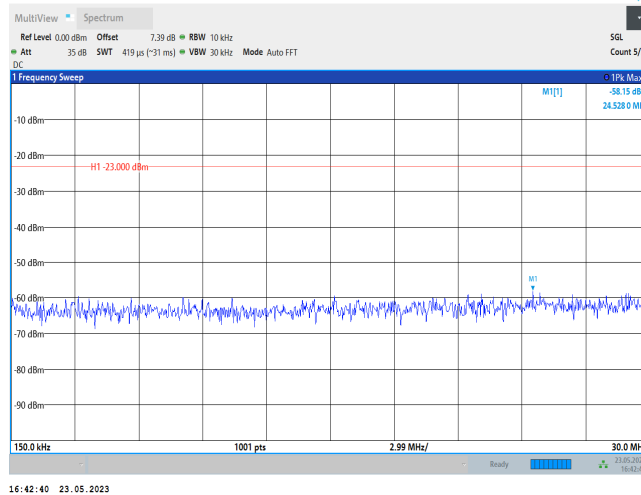
Conducted Spurious Emission

Test Graphs

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

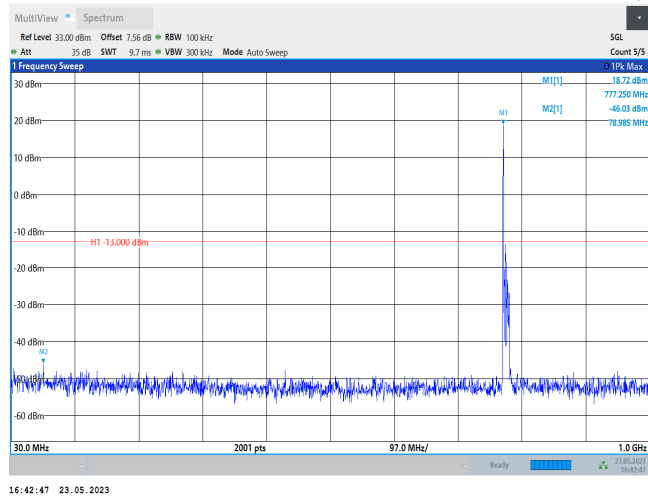


Band13-10MHz-QPSK-23230-1RB#0-Range2:0.15~30MHz

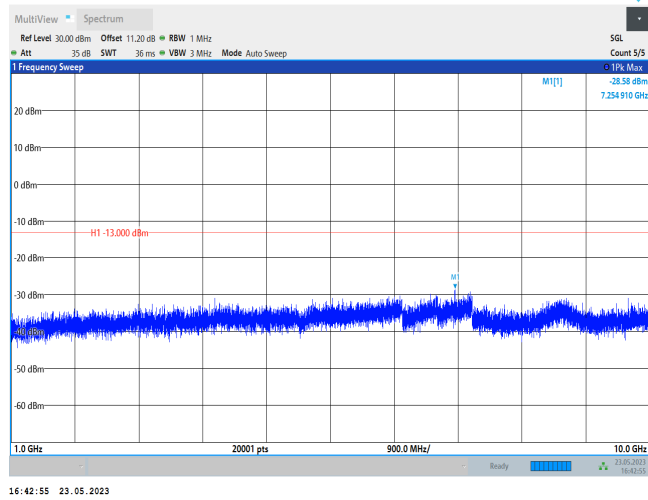


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Band13-10MHz-QPSK-23230-1RB#0-Range3:30~1000MHz



Band13-10MHz-QPSK-23230-1RB#0-Range4:1000~10000MHz



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Field Strength of Spurious Radiation

Test Band = LTE_13-10M_TM1

Test Channel = MCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	1555.0694	24.73	-19.23	25.89	-63.87	-13.00	50.87	238	227	Horizontal
2	1579.8225	23.01	-19.28	25.84	-65.69	-40.00	25.69	229	234	Horizontal
3	2332.9166	35.52	-18.40	27.80	-50.34	-13.00	37.34	159	48	Horizontal
4	3110.6055	69.18	-50.42	30.14	-46.36	-13.00	33.36	249	344	Horizontal
5	3887.9944	60.28	-49.20	30.55	-53.63	-13.00	40.63	355	339	Horizontal
6	7775.9888	56.11	-43.52	36.96	-45.71	-13.00	32.71	247	14	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	1555.3194	26.45	-19.23	25.89	-62.15	-13.00	49.15	256	70	Vertical
2	1604.0755	22.99	-19.30	25.81	-65.76	-40.00	25.76	332	267	Vertical
3	2332.6666	35.99	-18.40	27.80	-49.87	-13.00	36.87	148	161	Vertical
4	3110.2555	67.83	-50.43	30.14	-47.72	-13.00	34.72	226	250	Vertical
5	4665.7333	63.20	-48.12	31.94	-48.24	-13.00	35.24	254	260	Vertical
6	9848.0924	54.22	-41.23	38.80	-43.47	-13.00	30.47	189	320	Vertical



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Test Band = LTE_13-5M_TM1
Test Channel = LCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	1554.5693	29.11	-19.23	25.89	-59.49	-13.00	46.49	236	109	Horizontal
2	1586.5733	22.90	-19.29	25.83	-65.82	-40.00	25.82	254	2	Horizontal
3	3109.5555	71.10	-50.44	30.14	-44.46	-13.00	31.46	288	0	Horizontal
4	4663.9832	57.39	-48.14	31.94	-54.07	-13.00	41.07	250	315	Horizontal
5	6218.7609	53.48	-45.42	34.28	-52.92	-13.00	39.92	366	207	Horizontal
6	7773.1887	57.11	-43.51	36.94	-44.72	-13.00	31.72	189	14	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	1554.5693	25.96	-19.23	25.89	-62.64	-13.00	49.64	378	120	Vertical
2	1601.5752	23.11	-19.31	25.80	-65.66	-40.00	25.66	158	193	Vertical
3	2331.9165	26.35	-18.39	27.79	-59.51	-13.00	46.51	254	261	Vertical
4	3109.2055	62.32	-50.44	30.14	-53.24	-13.00	40.24	145	251	Vertical
5	3886.5943	58.32	-49.22	30.55	-55.61	-13.00	42.61	226	236	Vertical
6	7773.5387	59.08	-43.51	36.94	-42.75	-13.00	29.75	224	256	Vertical



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Test Band = LTE_13-5M_TM1
Test Channel = MCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	1559.82	25.42	-19.24	25.88	-63.20	-40.00	23.20	226	257	Horizontal
2	1921.1151	38.17	-18.64	25.98	-49.75	-13.00	36.75	325	304	Horizontal
3	3119.356	61.22	-50.28	30.18	-54.14	-13.00	41.14	148	354	Horizontal
4	3899.545	55.17	-49.04	30.60	-58.53	-13.00	45.53	226	325	Horizontal
5	4679.034	53.41	-48.01	31.88	-57.98	-13.00	44.98	325	325	Horizontal
6	6980.399	50.27	-44.34	36.46	-52.87	-13.00	39.87	230	10	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	1559.82	29.91	-19.24	25.88	-58.71	-40.00	18.71	203	301	Vertical
2	3119.356	59.33	-50.28	30.18	-56.03	-13.00	43.03	224	217	Vertical
3	3899.545	53.17	-49.04	30.60	-60.53	-13.00	47.53	365	256	Vertical
4	6238.7119	51.79	-45.36	34.35	-54.48	-13.00	41.48	258	38	Vertical
5	7798.7399	50.07	-43.53	37.09	-51.63	-13.00	38.63	119	266	Vertical
6	9688.1344	49.01	-41.20	38.72	-48.73	-13.00	35.73	320	305	Vertical



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Test Band = LTE_13-5M_TM1
Test Channel = HCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	1564.8206	24.83	-19.25	25.87	-63.81	-40.00	23.81	299	149	Horizontal
2	2346.9184	31.70	-18.64	27.88	-54.32	-13.00	41.32	254	41	Horizontal
3	3129.5065	61.92	-50.12	30.22	-53.24	-13.00	40.24	106	330	Horizontal
4	3911.7956	58.10	-49.05	30.67	-55.54	-13.00	42.54	325	355	Horizontal
5	6258.6629	53.55	-45.33	34.45	-52.59	-13.00	39.59	332	202	Horizontal
6	7823.5912	51.74	-43.35	37.10	-49.77	-13.00	36.77	144	335	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	1564.5706	26.03	-19.25	25.87	-62.61	-40.00	22.61	206	101	Vertical
2	2346.9184	25.96	-18.64	27.88	-60.06	-13.00	47.06	326	185	Vertical
3	3129.5065	61.29	-50.12	30.22	-53.87	-13.00	40.87	332	257	Vertical
4	3911.7956	59.08	-49.05	30.67	-54.56	-13.00	41.56	214	252	Vertical
5	6258.6629	53.04	-45.33	34.45	-53.10	-13.00	40.10	221	55	Vertical
6	7823.5912	54.36	-43.35	37.10	-47.15	-13.00	34.15	119	267	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

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	VL	NT	-8.57	-0.010959	PASS
Band13	10MHz	QPSK	23230	50RB#0	VN	NT	-10.10	-0.012916	PASS
Band13	10MHz	QPSK	23230	50RB#0	VH	NT	-9.73	-0.012442	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	NV	-30	-10.17	-0.013005	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-20	-9.51	-0.012161	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-10	-10.24	-0.013095	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	0	-8.98	-0.011483	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	10	-11.06	-0.014143	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	20	-9.26	-0.011841	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	30	-9.40	-0.012020	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	40	-7.68	-0.009821	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	50	-10.03	-0.012826	PASS

---End of Attachment---



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