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Appendix B.8

LTE Band 13



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Effective (Isotropic) Radiated Power Output Data

Test Result

ANT1

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	23.15	16.90	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#12	23.14	16.89	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#24	23.08	16.83	34.77	PASS
Band13	5MHz	QPSK	23205	25RB#0	22.04	15.79	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#0	23.21	16.96	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#12	23.20	16.95	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#24	23.14	16.89	34.77	PASS
Band13	5MHz	QPSK	23230	25RB#0	22.12	15.87	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#0	23.16	16.91	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#12	23.15	16.90	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#24	23.15	16.90	34.77	PASS
Band13	5MHz	QPSK	23255	25RB#0	22.07	15.82	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#0	22.32	16.07	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#12	22.21	15.96	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#24	22.26	16.01	34.77	PASS
Band13	5MHz	16QAM	23205	25RB#0	21.04	14.79	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#0	22.44	16.19	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#12	22.27	16.02	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#24	22.43	16.18	34.77	PASS
Band13	5MHz	16QAM	23230	25RB#0	21.11	14.86	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#0	22.38	16.13	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#12	22.41	16.16	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#24	22.39	16.14	34.77	PASS
Band13	5MHz	16QAM	23255	25RB#0	21.08	14.83	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#0	21.19	14.94	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#12	21.14	14.89	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#24	21.16	14.91	34.77	PASS



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Band13	5MHz	64QAM	23205	25RB#0	20.02	13.77	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#0	21.35	15.10	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#12	21.26	15.01	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#24	21.21	14.96	34.77	PASS
Band13	5MHz	64QAM	23230	25RB#0	20.14	13.89	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#0	21.18	14.93	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#12	21.27	15.02	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#24	21.17	14.92	34.77	PASS
Band13	5MHz	64QAM	23255	25RB#0	20.09	13.84	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#0	23.21	16.96	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#24	23.19	16.94	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#49	23.10	16.85	34.77	PASS
Band13	10MHz	QPSK	23230	50RB#0	22.22	15.97	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#0	22.36	16.11	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#24	22.33	16.08	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#49	22.26	16.01	34.77	PASS
Band13	10MHz	16QAM	23230	50RB#0	21.20	14.95	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#0	21.36	15.11	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#24	21.26	15.01	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#49	21.12	14.87	34.77	PASS
Band13	10MHz	64QAM	23230	50RB#0	20.20	13.95	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	5.30	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	6.02	13	PASS
Band13	10MHz	64QAM	23230	50RB#0	6.44	13	PASS

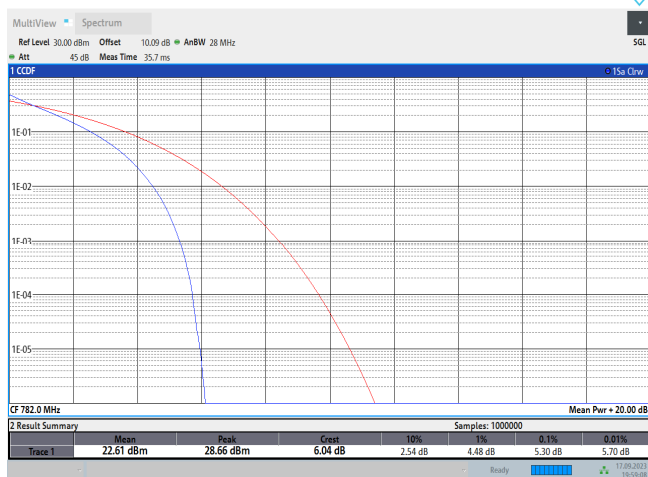


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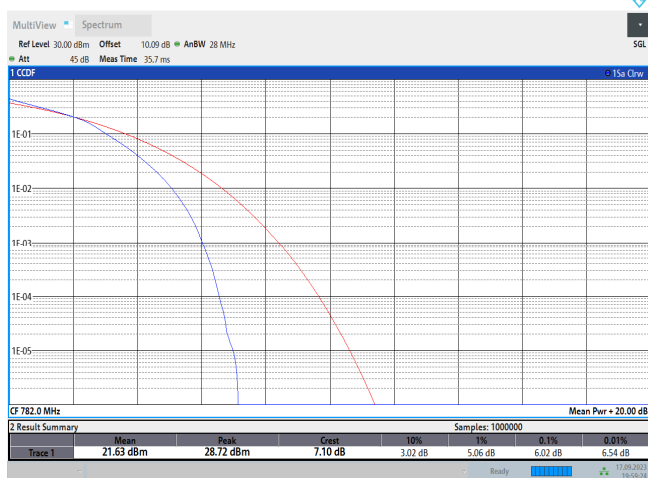
Test Graphs

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



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



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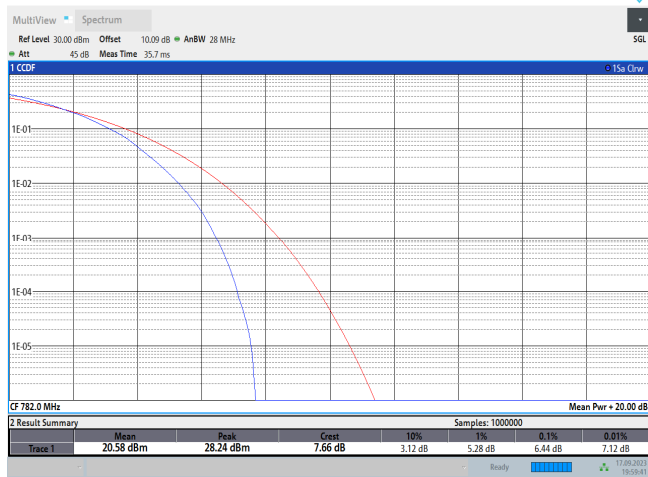
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Band13-10MHz-64QAM-23230-50RB#0



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.468	4.85	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.469	4.86	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.469	4.85	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.465	4.87	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.465	4.86	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.464	4.85	PASS
Band13	5MHz	64QAM	23205	25RB#0	4.476	4.83	PASS
Band13	5MHz	64QAM	23230	25RB#0	4.476	4.88	PASS
Band13	5MHz	64QAM	23255	25RB#0	4.478	4.88	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.944	9.64	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.931	9.66	PASS
Band13	10MHz	64QAM	23230	50RB#0	8.947	9.64	PASS



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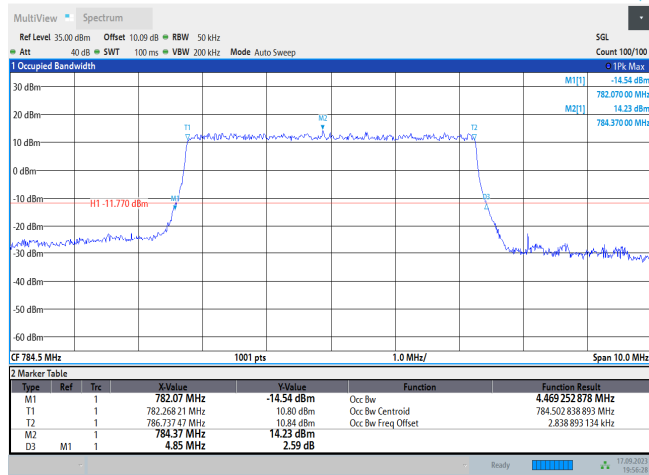
Test Graphs



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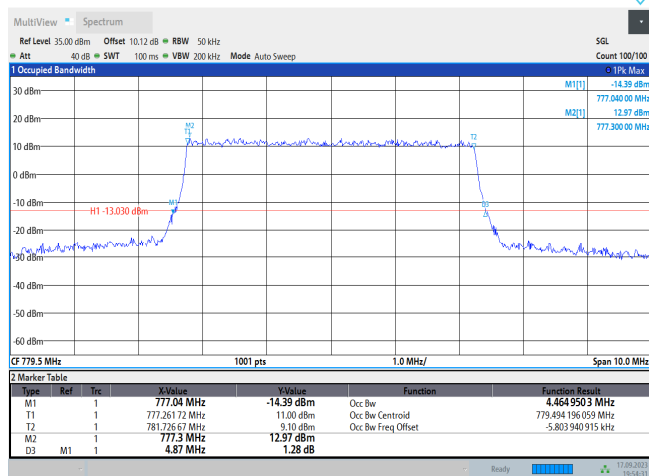
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Band13-5MHz-QPSK-23255-25RB#0



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



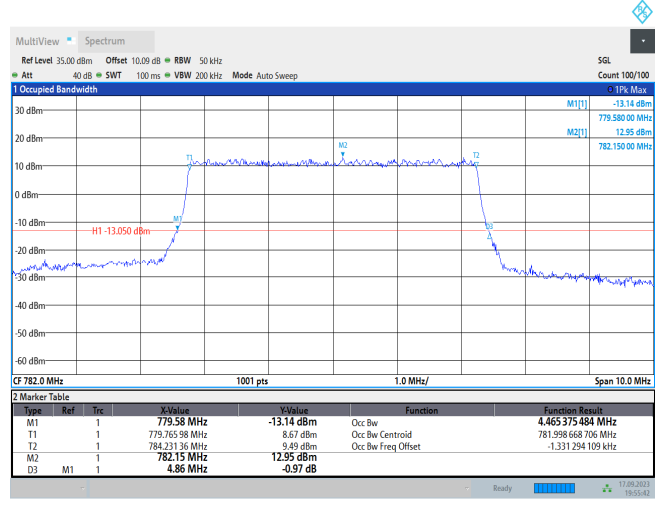
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Band13-5MHz-16QAM-23230-25RB#0



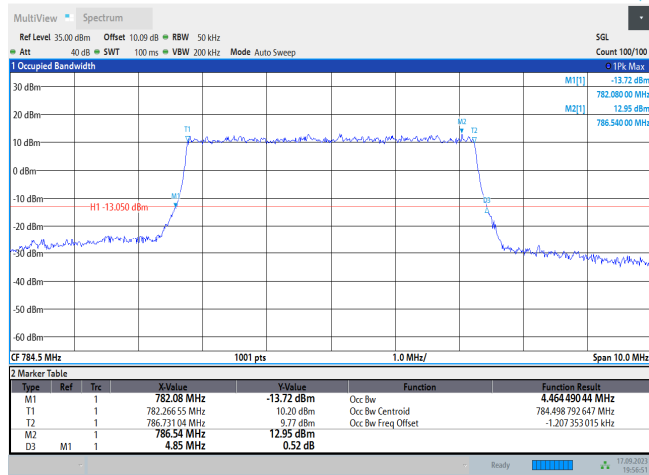
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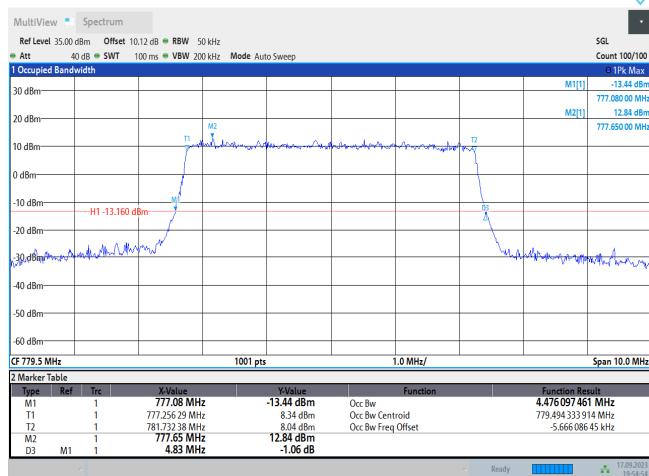
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Band13-5MHz-16QAM-23255-25RB#0



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Band13-5MHz-64QAM-23205-25RB#0



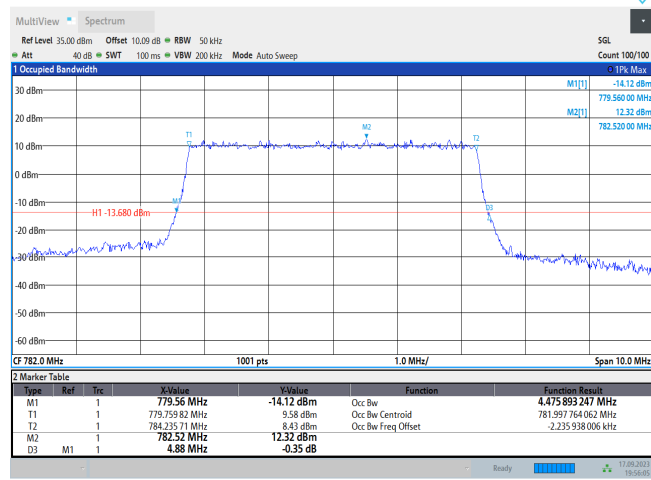
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Band13-5MHz-64QAM-23230-25RB#0



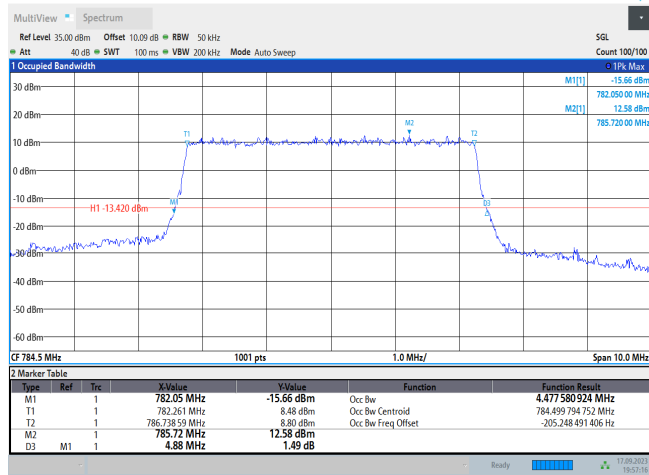
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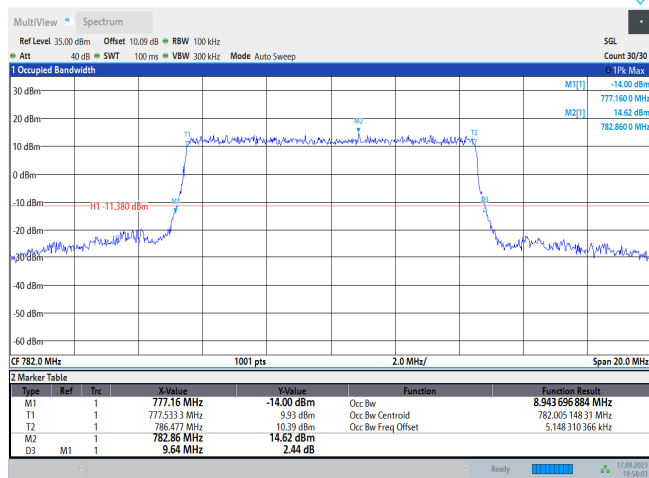
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Band13-5MHz-64QAM-23255-25RB#0



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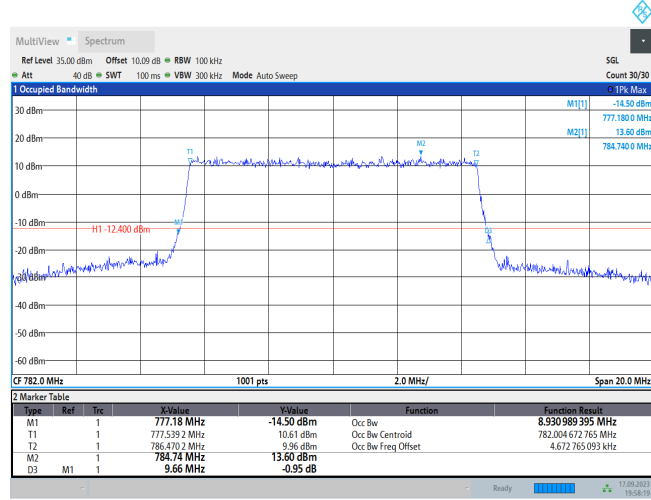
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Band13-10MHz-16QAM-23230-50RB#0



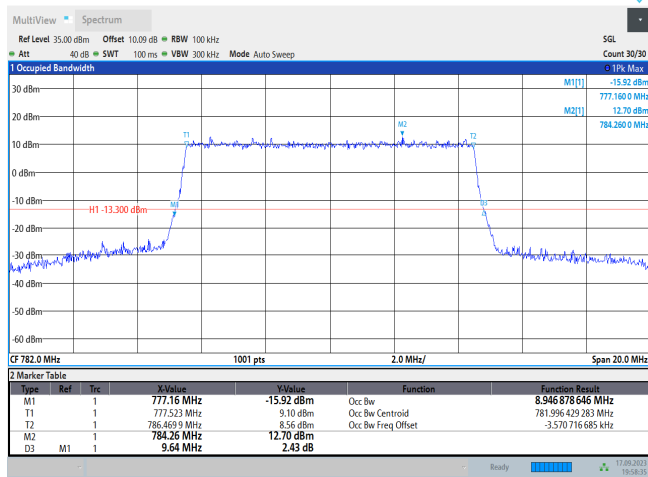
19:58:20 17.09.2023



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Report No.: XEWM2309000451RG01
 Rev.: 01
 Page: 15 of 30

Band13-10MHz-64QAM-23230-50RB#0



19:58:36 17.09.2023



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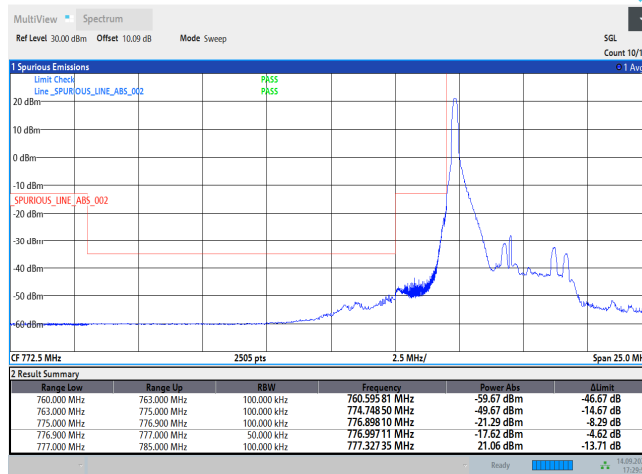
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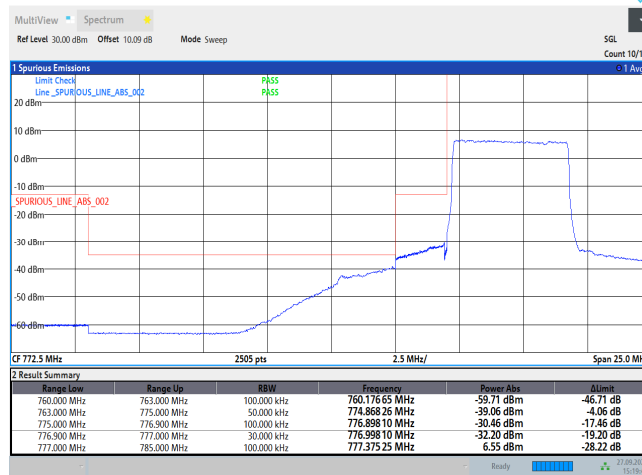
Band Edge

Test Graphs

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



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

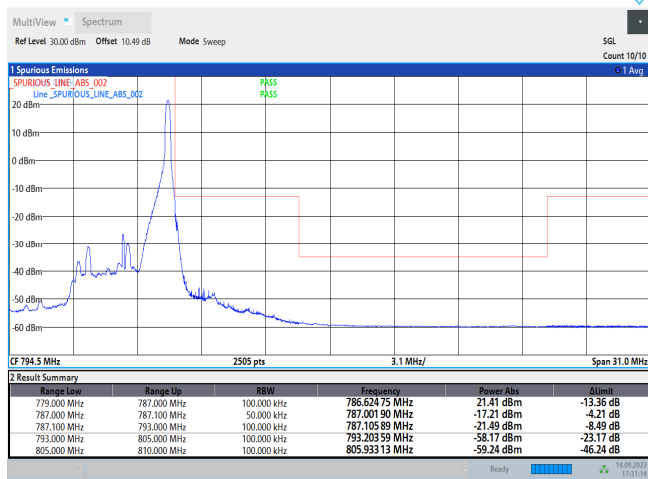


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Wireless Laboratory

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



17:31:14 14.09.2023

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



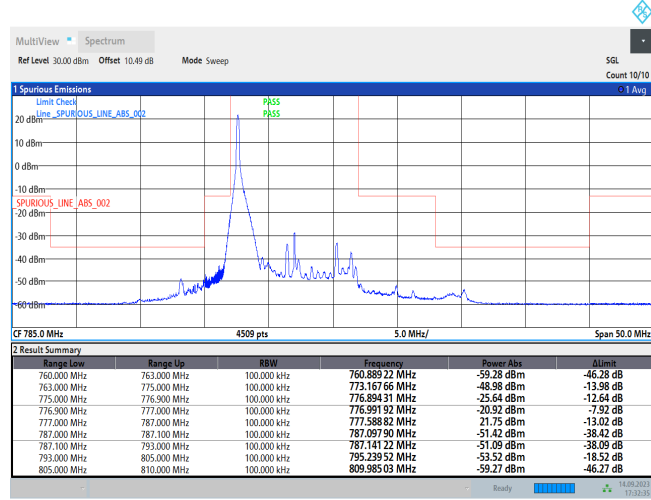
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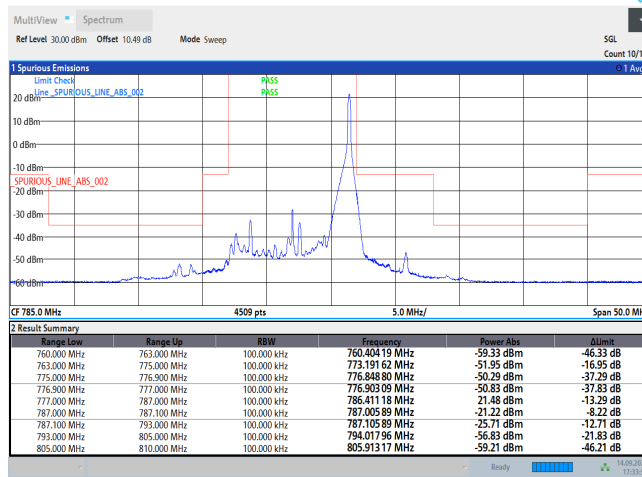
Band13-10MHz-QPSK-23230-1RB#0



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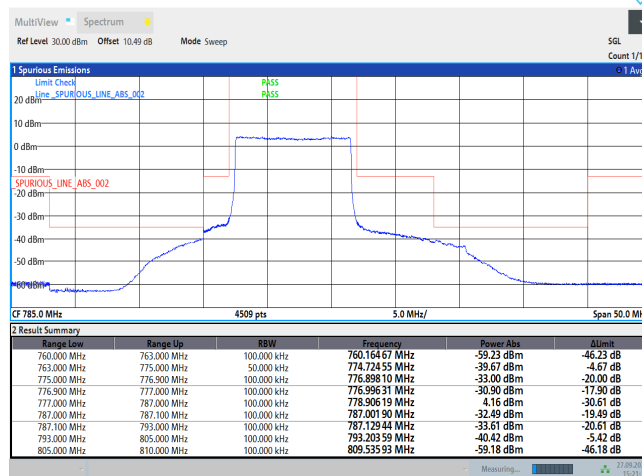
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Band13-10MHz-QPSK-23230-1RB#49



17:33:59 14.09.2023

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



15:21:10 27.09.2023



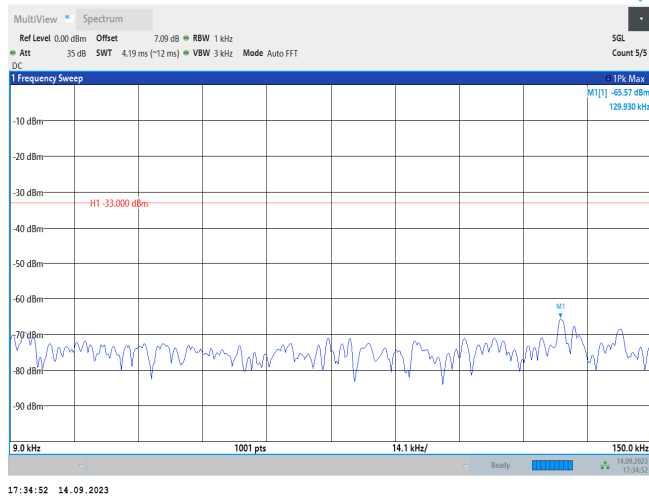
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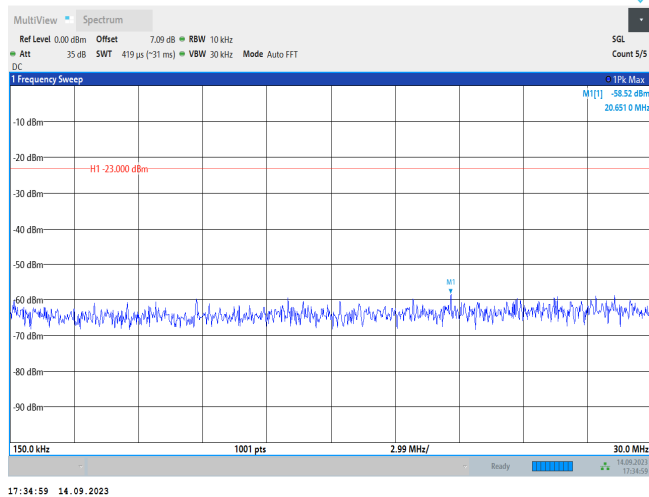
Conducted Spurious Emission

Test Graphs

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



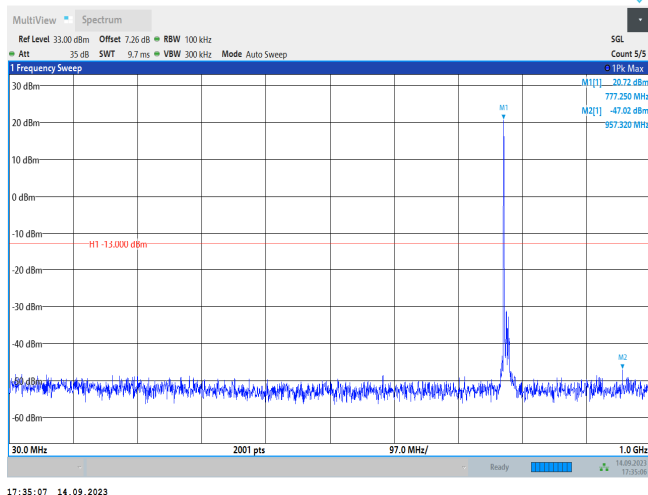
Band13-10MHz-QPSK-23230-1RB#0-Range2:0.15~30MHz



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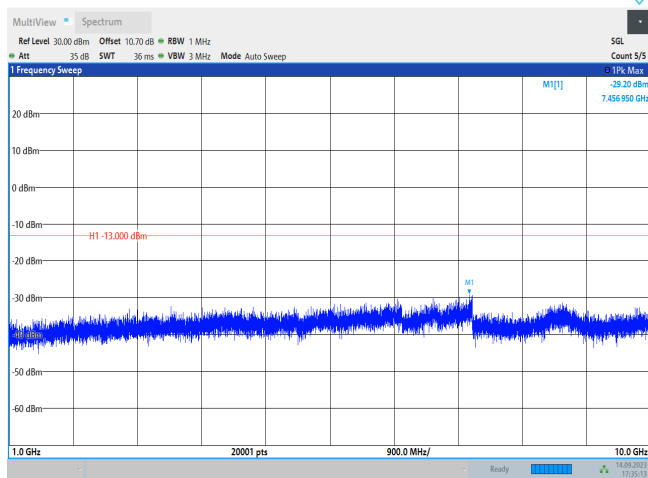
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Band13-10MHz-QPSK-23230-1RB#0-Range3:30~1000MHz



17:35:07 14.09.2023

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



17:35:14 14.09.2023



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Field Strength of Spurious Radiation

Test Band = LTE_13-5MHz ANT 1

Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1554.5	50.01	-47.61	24.28	-68.58	-13.00	55.58	Horizontal
2	1606	46.90	-47.60	25.15	-70.81	-40.00	30.81	Horizontal
3	2468	47.21	-46.66	27.67	-67.04	-13.00	54.04	Horizontal
4	4229	45.97	-43.56	29.72	-63.13	-13.00	50.13	Horizontal
5	6107.5	44.48	-40.48	33.39	-57.87	-13.00	44.87	Horizontal
6	9886.5	41.81	-35.32	38.49	-50.28	-13.00	37.28	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1554.5	48.13	-47.61	24.28	-70.46	-13.00	57.46	Vertical
2	1607	47.13	-47.60	25.16	-70.57	-40.00	30.57	Vertical
3	2453.5	47.36	-46.65	27.61	-66.94	-13.00	53.94	Vertical
4	4400.5	46.13	-43.27	30.10	-62.30	-13.00	49.30	Vertical
5	6345.5	44.37	-40.81	33.86	-57.84	-13.00	44.84	Vertical
6	9131.5	42.06	-35.70	37.06	-51.84	-13.00	38.84	Vertical



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Test Band = LTE_13-5MHz ANT 1

Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1559.5	48.52	-47.61	24.37	-69.98	-40.00	29.98	Horizontal
2	2389.5	47.63	-46.61	27.44	-66.80	-13.00	53.80	Horizontal
3	3939	47.16	-44.23	29.86	-62.47	-13.00	49.47	Horizontal
4	6020	45.63	-40.68	33.20	-57.11	-13.00	44.11	Horizontal
5	7414.5	43.61	-38.35	36.73	-53.27	-13.00	40.27	Horizontal
6	9921	41.81	-35.37	38.62	-50.20	-13.00	37.20	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1559.5	47.75	-47.61	24.37	-70.75	-40.00	30.75	Vertical
2	2363.5	47.35	-46.62	27.55	-66.98	-13.00	53.98	Vertical
3	3689	46.61	-44.48	29.30	-63.83	-13.00	50.83	Vertical
4	6126.5	44.84	-40.59	33.35	-57.66	-13.00	44.66	Vertical
5	7398	43.78	-38.36	36.69	-53.15	-13.00	40.15	Vertical
6	9915	41.84	-35.35	38.62	-50.15	-13.00	37.15	Vertical



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Test Band = LTE_13-5MHz ANT 1

Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1564.5	51.76	-47.61	24.46	-66.65	-40.00	26.65	Horizontal
2	2387.5	47.57	-46.61	27.45	-66.85	-13.00	53.85	Horizontal
3	3032	47.15	-45.74	28.73	-65.12	-13.00	52.12	Horizontal
4	4789.5	45.95	-42.89	30.74	-61.46	-13.00	48.46	Horizontal
5	7375.5	43.86	-38.46	36.60	-53.26	-13.00	40.26	Horizontal
6	9888.5	42.11	-35.32	38.51	-49.96	-13.00	36.96	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1564.5	49.13	-47.61	24.46	-69.28	-40.00	29.28	Vertical
2	2348.5	47.22	-46.63	27.59	-67.08	-13.00	54.08	Vertical
3	3071.5	47.06	-45.83	28.84	-65.19	-13.00	52.19	Vertical
4	4693	46.49	-42.99	30.54	-61.22	-13.00	48.22	Vertical
5	7417.5	43.76	-38.36	36.74	-53.12	-13.00	40.12	Vertical
6	9876	41.96	-35.35	38.41	-50.24	-13.00	37.24	Vertical



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Test Band = LTE_13-10MHz ANT 1

Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1555	51.18	-47.61	24.29	-67.40	-13.00	54.40	Horizontal
2	1593	47.28	-47.61	24.97	-70.62	-40.00	30.62	Horizontal
3	2758.5	47.48	-46.12	28.13	-65.77	-13.00	52.77	Horizontal
4	3944.5	46.68	-44.21	29.88	-62.91	-13.00	49.91	Horizontal
5	6032	45.20	-40.64	33.32	-57.38	-13.00	44.38	Horizontal
6	9115.5	42.21	-35.57	37.03	-51.59	-13.00	38.59	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1555	49.61	-47.61	24.29	-68.97	-13.00	55.97	Vertical
2	1595.5	47.36	-47.61	25.02	-70.49	-40.00	30.49	Vertical
3	2387	47.74	-46.61	27.45	-66.68	-13.00	53.68	Vertical
4	3969	46.37	-44.09	29.86	-63.12	-13.00	50.12	Vertical
5	6132.5	45.20	-40.63	33.34	-57.35	-13.00	44.35	Vertical
6	9947.5	41.93	-35.48	38.65	-50.16	-13.00	37.16	Vertical



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Test Band = LTE_13-5MHz ANT 0

Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1554.5	50.39	-47.61	24.28	-68.20	-13.00	55.20	Horizontal
2	1589.5	46.95	-47.61	24.91	-71.01	-40.00	31.01	Horizontal
3	2349.5	47.40	-46.63	27.60	-66.89	-13.00	53.89	Horizontal
4	3936.5	46.27	-44.24	29.85	-63.38	-13.00	50.38	Horizontal
5	7422	43.37	-38.36	36.74	-53.51	-13.00	40.51	Horizontal
6	9918.5	40.81	-35.36	38.62	-51.19	-13.00	38.19	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1554.5	48.00	-47.61	24.28	-70.59	-13.00	57.59	Vertical
2	1604.5	46.74	-47.60	25.14	-70.98	-40.00	30.98	Vertical
3	2385	47.21	-46.61	27.46	-67.20	-13.00	54.20	Vertical
4	3914	46.40	-44.35	29.76	-63.45	-13.00	50.45	Vertical
5	7501.5	42.78	-38.39	36.89	-53.98	-13.00	40.98	Vertical
6	9884.5	40.96	-35.33	38.48	-51.15	-13.00	38.15	Vertical



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Test Band = LTE_13-5MHz ANT 0

Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1559.5	49.80	-47.61	24.37	-68.70	-40.00	28.70	Horizontal
2	2339.5	47.14	-46.63	27.50	-67.25	-13.00	54.25	Horizontal
3	3137	46.90	-45.68	28.75	-65.29	-13.00	52.29	Horizontal
4	5176.5	44.78	-42.53	31.85	-61.16	-13.00	48.16	Horizontal
5	7378	43.23	-38.44	36.61	-53.86	-13.00	40.86	Horizontal
6	9885.5	41.20	-35.32	38.48	-50.90	-13.00	37.90	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1559.5	48.36	-47.61	24.37	-70.14	-40.00	30.14	Vertical
2	2465.5	46.98	-46.66	27.66	-67.28	-13.00	54.28	Vertical
3	3072.5	46.92	-45.84	28.85	-65.33	-13.00	52.33	Vertical
4	4414.5	46.06	-43.24	30.10	-62.34	-13.00	49.34	Vertical
5	6067	44.28	-40.54	33.47	-58.05	-13.00	45.05	Vertical
6	9930	41.18	-35.41	38.63	-50.86	-13.00	37.86	Vertical



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Test Band = LTE_13-5MHz ANT 0

Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1565	49.82	-47.61	24.47	-68.58	-40.00	28.58	Horizontal
2	2347	47.57	-46.63	27.57	-66.75	-13.00	53.75	Horizontal
3	3206.5	46.76	-45.33	28.43	-65.40	-13.00	52.40	Horizontal
4	4419	46.10	-43.23	30.10	-62.29	-13.00	49.29	Horizontal
5	7500.5	43.15	-38.38	36.90	-53.59	-13.00	40.59	Horizontal
6	9973	41.25	-35.57	38.67	-50.91	-13.00	37.91	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1564.5	48.51	-47.61	24.46	-69.90	-40.00	29.90	Vertical
2	2265	46.81	-46.77	26.89	-68.33	-13.00	55.33	Vertical
3	3057	46.69	-45.80	28.81	-65.56	-13.00	52.56	Vertical
4	4354.5	45.97	-43.10	29.92	-62.47	-13.00	49.47	Vertical
5	7418	43.07	-38.36	36.74	-53.81	-13.00	40.81	Vertical
6	9887	41.23	-35.32	38.50	-50.85	-13.00	37.85	Vertical



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Test Band = LTE_13-10MHz ANT 0
Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1555.5	49.07	-47.61	24.30	-69.50	-13.00	56.50	Horizontal
2	1597	46.78	-47.61	25.05	-71.04	-40.00	31.04	Horizontal
3	2365	46.86	-46.62	27.54	-67.48	-13.00	54.48	Horizontal
4	3736.5	46.82	-44.74	29.52	-63.66	-13.00	50.66	Horizontal
5	7412.5	42.92	-38.35	36.73	-53.96	-13.00	40.96	Horizontal
6	9887	41.35	-35.32	38.50	-50.73	-13.00	37.73	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1555	48.58	-47.61	24.29	-70.00	-13.00	57.00	Vertical
2	1581	47.38	-47.61	24.76	-70.73	-40.00	30.73	Vertical
3	3125.5	46.96	-45.75	28.80	-65.25	-13.00	52.25	Vertical
4	4363	45.97	-43.13	29.95	-62.47	-13.00	49.47	Vertical
5	7498	42.97	-38.38	36.90	-53.77	-13.00	40.77	Vertical
6	9947.5	40.97	-35.48	38.65	-51.12	-13.00	38.12	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
Band13	10MHz	QPSK	23230	50RB#0	VL	NT	-5.46	-0.006982	PASS
Band13	10MHz	QPSK	23230	50RB#0	VN	NT	-9.23	-0.011803	PASS
Band13	10MHz	QPSK	23230	50RB#0	VH	NT	-7.97	-0.010192	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	NV	-30	-8.08	-0.010332	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-20	-7.28	-0.009309	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-10	-7.24	-0.009258	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	0	-6.88	-0.008798	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	10	3.08	0.003939	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	20	-3.76	-0.004808	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	30	-3.36	-0.004297	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	40	2.23	0.002852	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	50	-5.28	-0.006752	PASS

---End of Attachment---



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