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Appendix B.7

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	24.35	25.2	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#12	24.38	25.23	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#24	24.35	25.2	34.77	PASS
Band13	5MHz	QPSK	23205	25RB#0	24.26	25.11	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#0	24.27	25.12	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#12	24.24	25.09	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#24	24.22	25.07	34.77	PASS
Band13	5MHz	QPSK	23230	25RB#0	24.32	25.17	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#0	24.3	25.15	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#12	24.27	25.12	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#24	24.22	25.07	34.77	PASS
Band13	5MHz	QPSK	23255	25RB#0	24.28	25.13	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#0	23.38	24.23	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#12	23.31	24.16	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#24	23.32	24.17	34.77	PASS
Band13	5MHz	16QAM	23205	25RB#0	22.25	23.1	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#0	23.5	24.35	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#12	23.49	24.34	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#24	23.47	24.32	34.77	PASS
Band13	5MHz	16QAM	23230	25RB#0	22.34	23.19	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#0	23.43	24.28	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#12	23.41	24.26	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#24	23.46	24.31	34.77	PASS
Band13	5MHz	16QAM	23255	25RB#0	22.3	23.15	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#0	22.37	23.22	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#12	22.35	23.2	34.77	PASS



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Band13	5MHz	64QAM	23205	1RB#24	22.3	23.15	34.77	PASS
Band13	5MHz	64QAM	23205	25RB#0	21.27	22.12	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#0	22.46	23.31	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#12	22.38	23.23	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#24	22.31	23.16	34.77	PASS
Band13	5MHz	64QAM	23230	25RB#0	21.35	22.2	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#0	22.45	23.3	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#12	22.38	23.23	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#24	22.32	23.17	34.77	PASS
Band13	5MHz	64QAM	23255	25RB#0	21.29	22.14	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#0	24.35	25.2	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#24	24.29	25.14	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#49	24.22	25.07	34.77	PASS
Band13	10MHz	QPSK	23230	50RB#0	24.37	25.22	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#0	23.49	24.34	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#24	23.54	24.39	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#49	23.46	24.31	34.77	PASS
Band13	10MHz	16QAM	23230	50RB#0	22.4	23.25	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#0	22.39	23.24	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#24	22.44	23.29	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#49	22.37	23.22	34.77	PASS
Band13	10MHz	64QAM	23230	50RB#0	21.39	22.24	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
Band13	10MHz	QPSK	23230	50RB#0	5.40	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	6.22	13	PASS
Band13	10MHz	64QAM	23230	50RB#0	6.50	13	PASS



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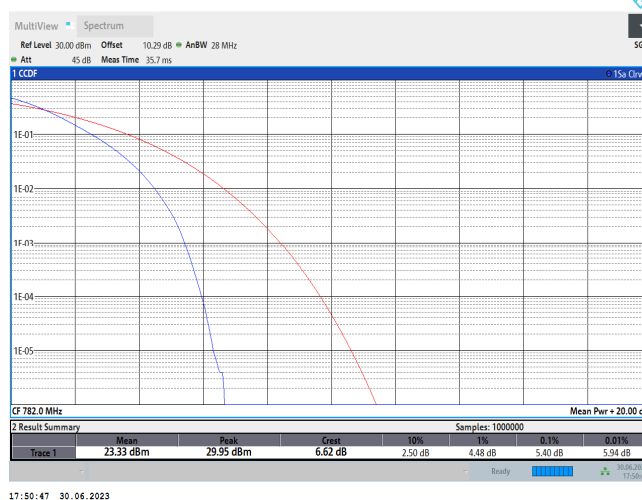
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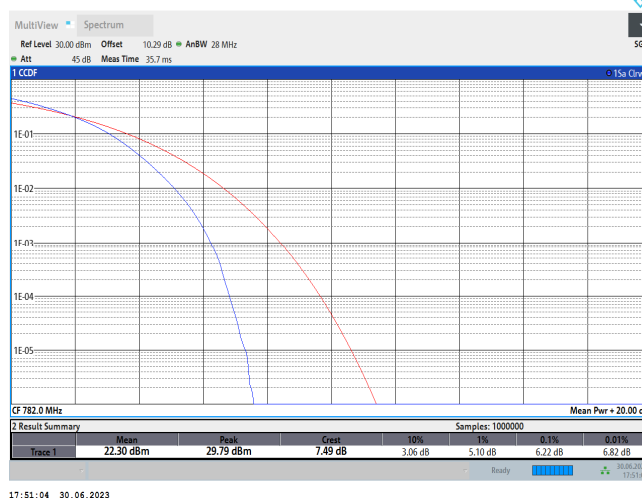
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Test Graphs

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



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



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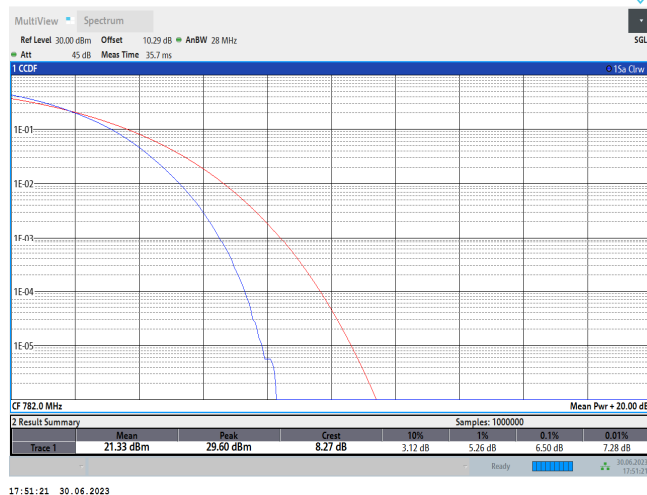
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Band13-10MHz-64QAM-23230-50RB#0



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



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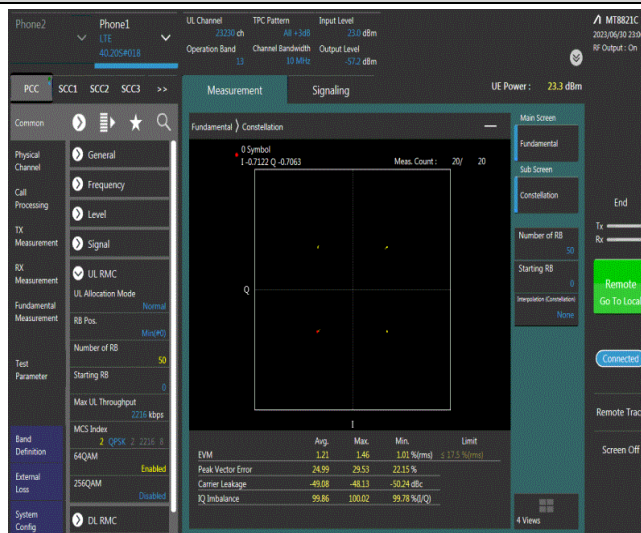
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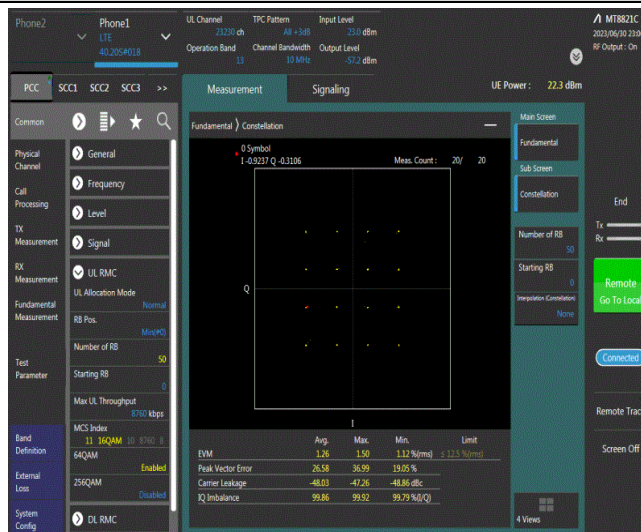
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Test Graphs

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



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

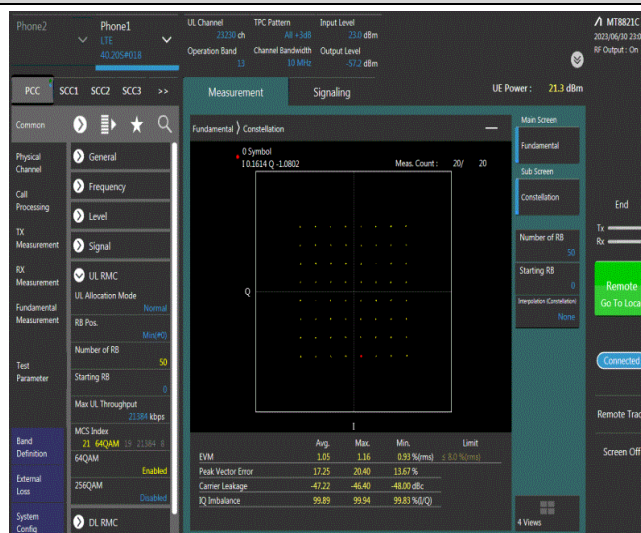


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Band13-10MHz-64QAM-23230-50RB#0



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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	4.88	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.467	4.89	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.474	4.87	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.466	4.88	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.465	4.90	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.474	4.91	PASS
Band13	5MHz	64QAM	23205	25RB#0	4.475	4.89	PASS
Band13	5MHz	64QAM	23230	25RB#0	4.475	4.89	PASS
Band13	5MHz	64QAM	23255	25RB#0	4.483	4.89	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.926	9.58	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.901	9.58	PASS
Band13	10MHz	64QAM	23230	50RB#0	8.917	9.60	PASS



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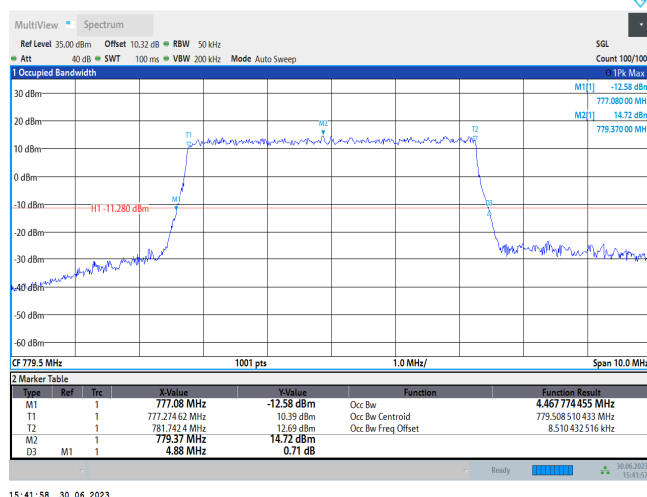
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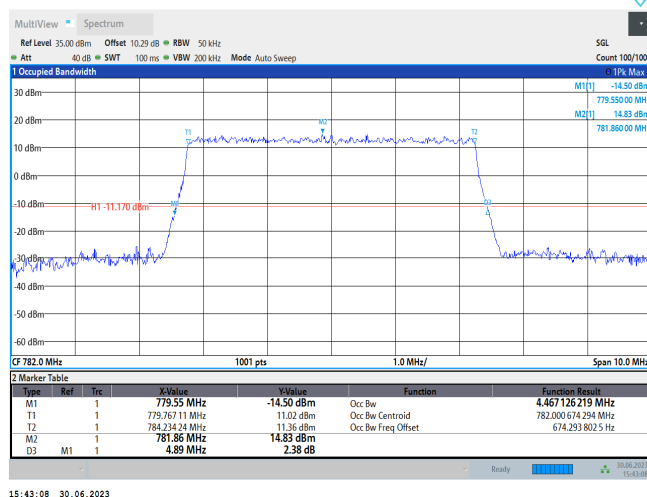
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Test Graphs

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



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



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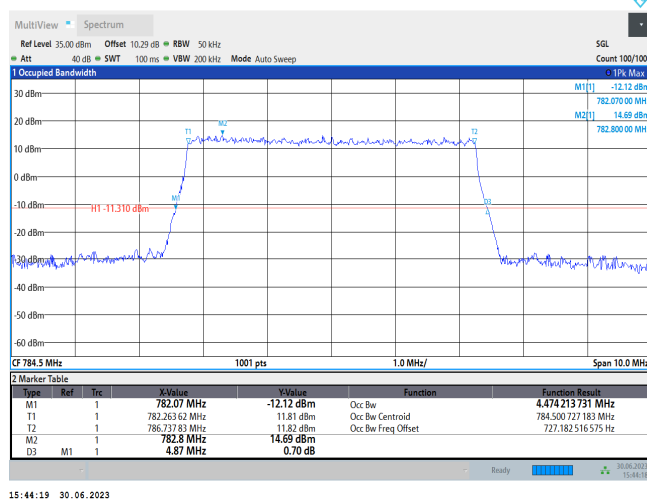
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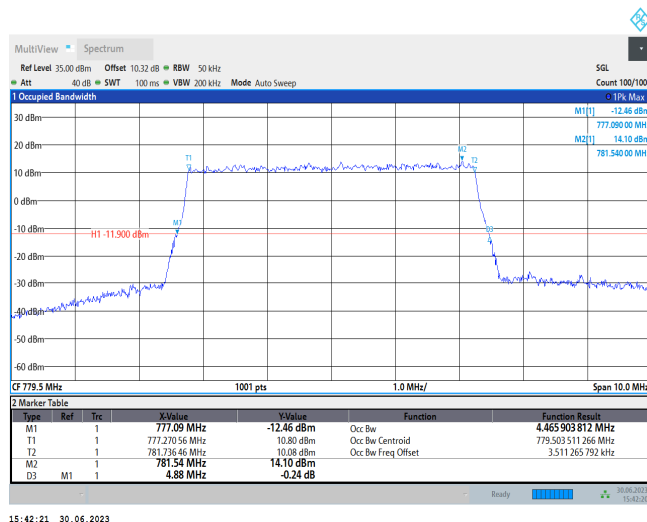
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Band13-5MHz-QPSK-23255-25RB#0



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



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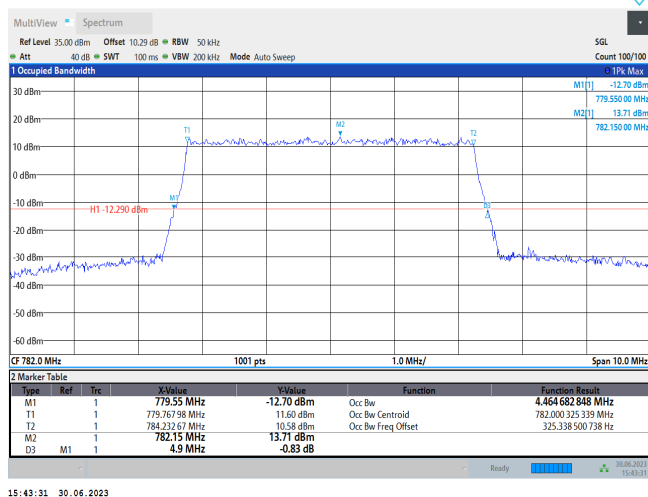
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Band13-5MHz-16QAM-23230-25RB#0



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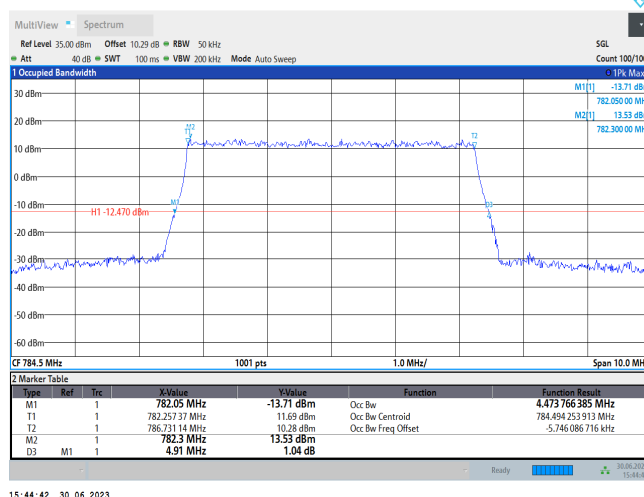
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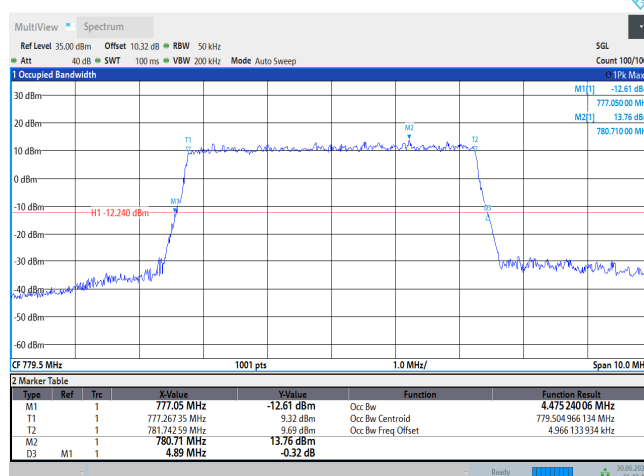
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Band13-5MHz-16QAM-23255-25RB#0



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



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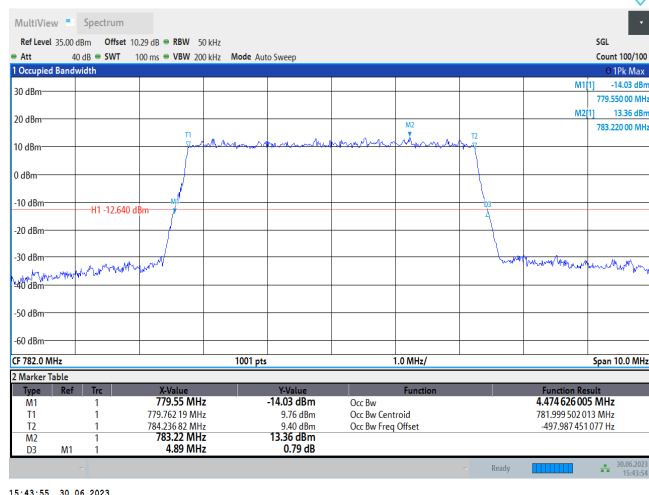
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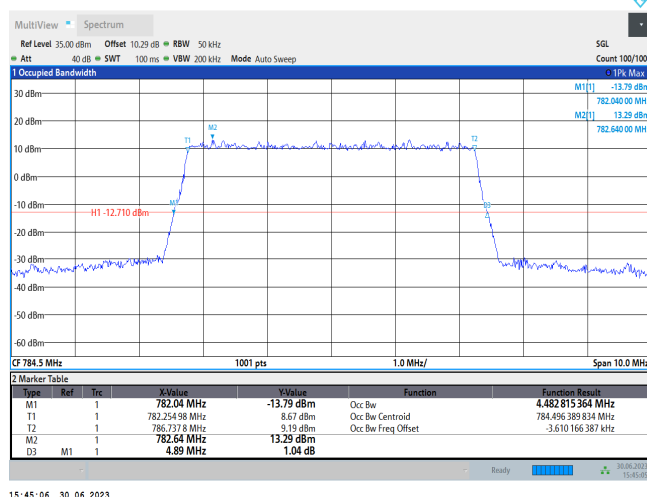
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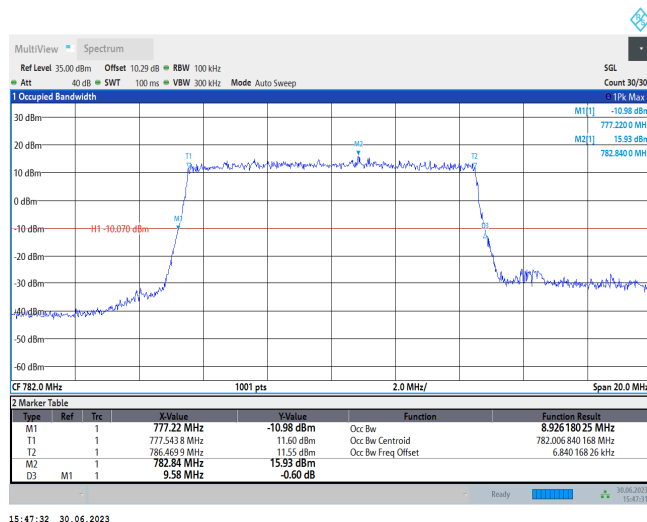
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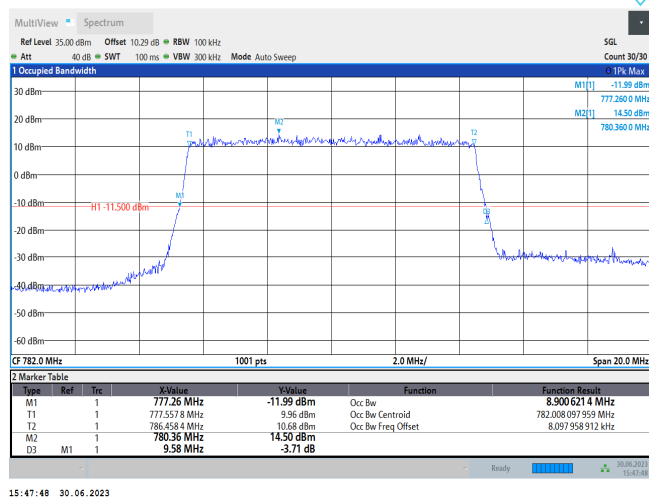
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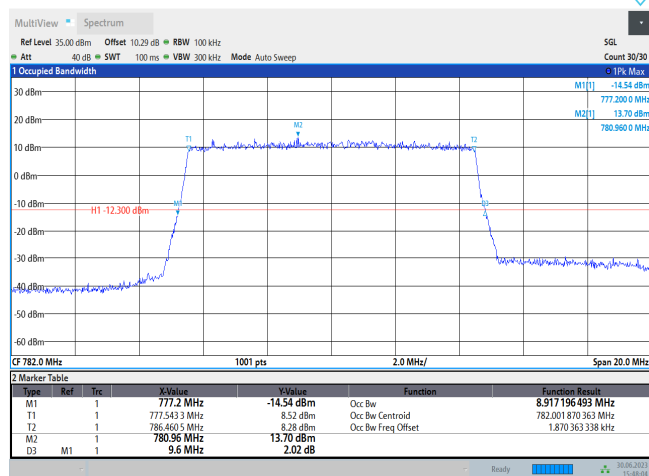
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Band13-10MHz-64QAM-23230-50RB#0



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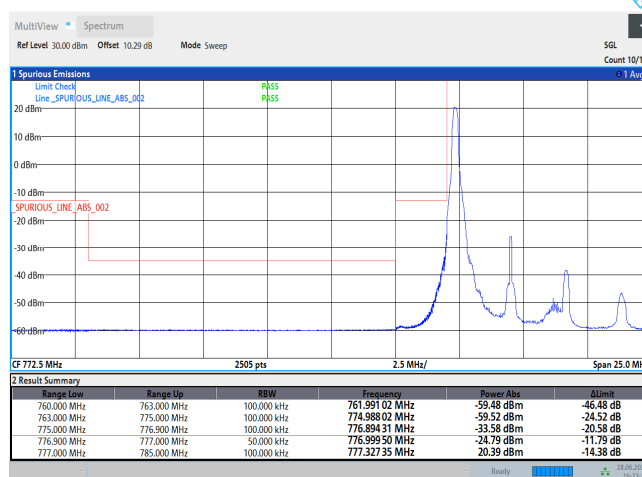
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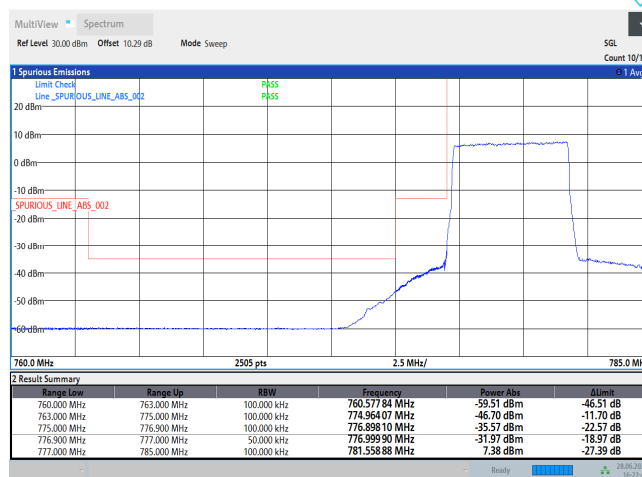
Band Edge

Test Graphs

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



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

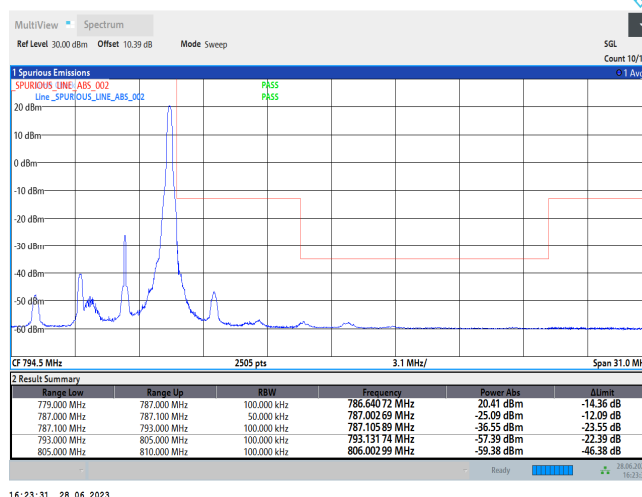


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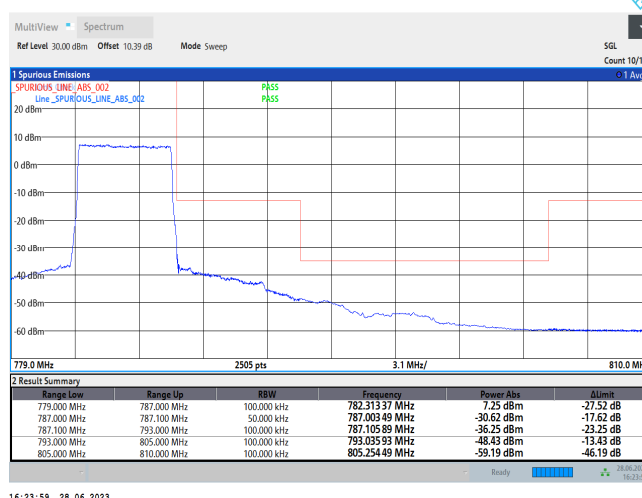
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Band13-5MHz-QPSK-23255-25RB#0



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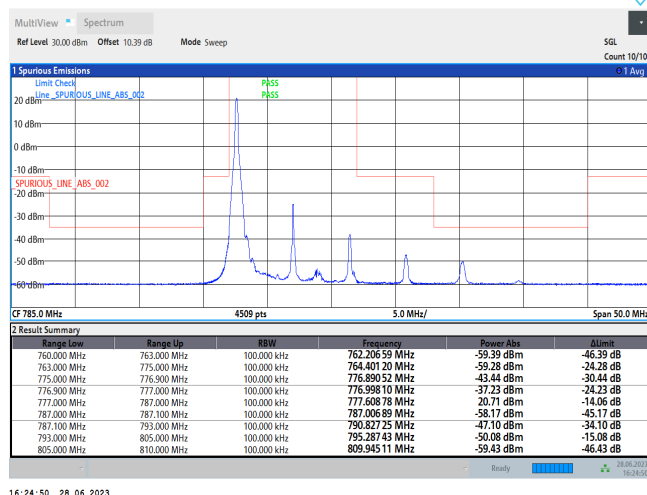
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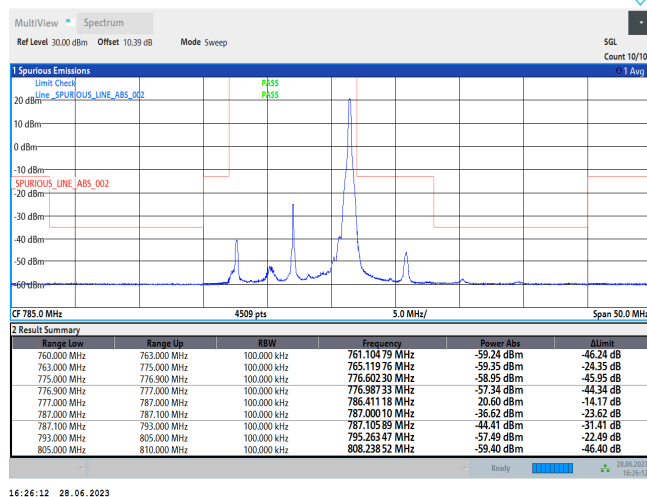
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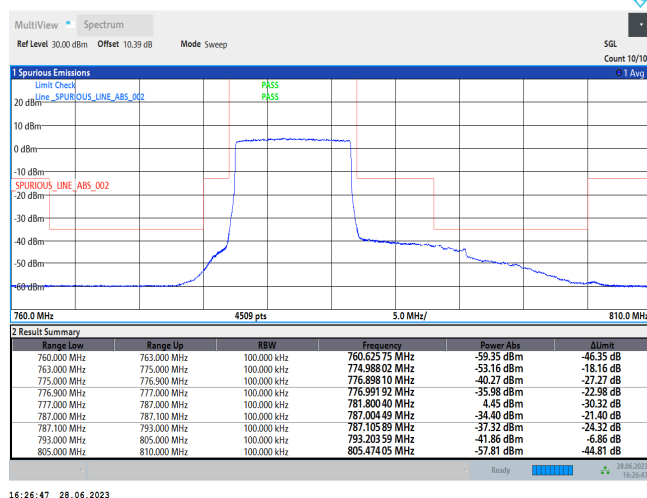
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Band13-10MHz-QPSK-23230-50RB#0



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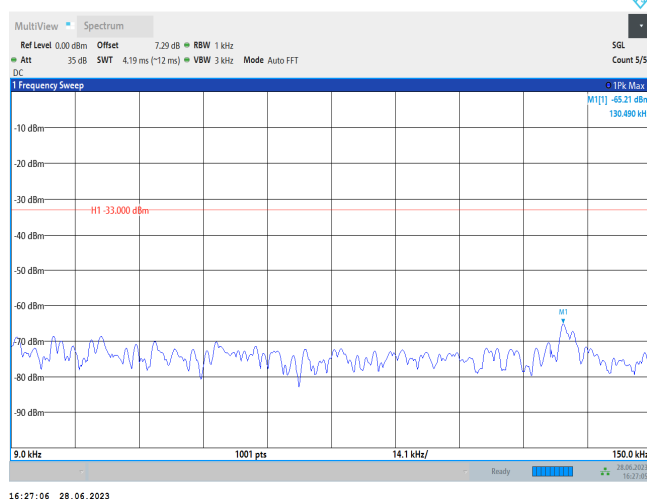
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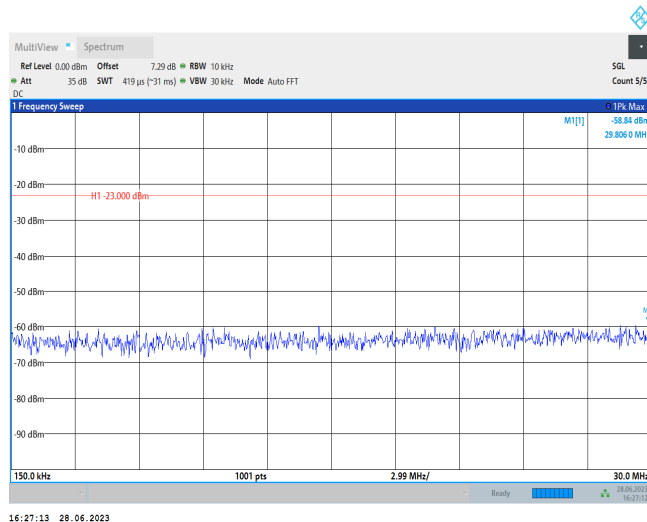
Conducted Spurious Emission

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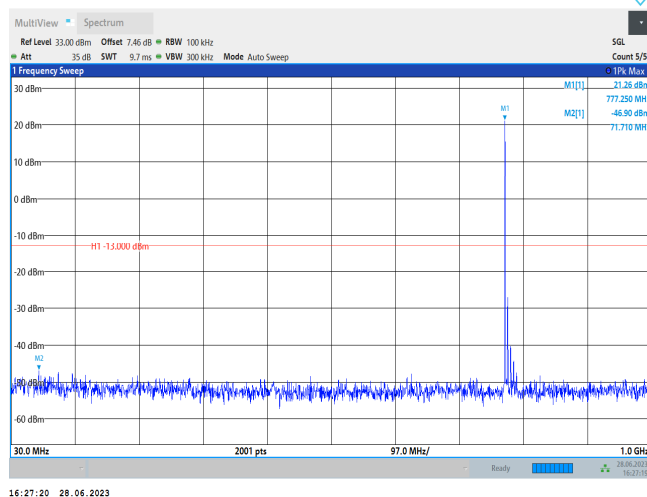
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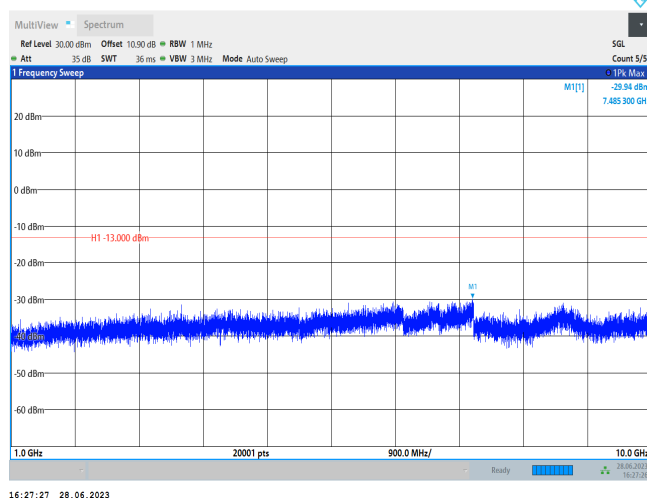
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Band13-10MHz-QPSK-23230-1RB#0-Range3:30~1000MHz



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



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Field Strength of Spurious Radiation

Test Band = LTE_13_TM1

Test Channel = LCH-5M

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	1001.08	48.85	-46.57	24.49	-68.49	-13.00	55.49	163	78	Horizontal
2	1596.9039	48.60	-47.61	25.04	-69.23	-40.00	29.23	332	7	Horizontal
3	2328.8132	48.28	-46.63	27.39	-66.22	-13.00	53.22	254	356	Horizontal
4	3965.4386	48.35	-44.11	29.87	-61.15	-13.00	48.15	189	84	Horizontal
5	7472.6989	45.47	-38.37	36.85	-51.31	-13.00	38.31	226	339	Horizontal
6	9921.1568	43.42	-35.37	38.62	-48.59	-13.00	35.59	320	333	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	1068.0427	49.40	-47.35	24.17	-69.04	-13.00	56.04	196	133	Vertical
2	1594.7438	48.21	-47.61	25.01	-69.65	-40.00	29.65	332	73	Vertical
3	2582.9833	48.22	-46.26	27.87	-65.43	-13.00	52.43	254	294	Vertical
4	3950.678	48.74	-44.18	29.90	-60.80	-13.00	47.80	114	306	Vertical
5	7055.0822	45.52	-39.27	36.17	-52.84	-13.00	39.84	187	335	Vertical
6	9948.878	43.73	-35.48	38.65	-48.36	-13.00	35.36	146	121	Vertical



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Test Band = LTE_13_TM1
Test Channel = MCH-5M

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	1206.6483	49.00	-47.89	24.59	-69.56	-13.00	56.56	133	224	Horizontal
2	1559.8224	55.63	-47.61	24.38	-62.86	-40.00	22.86	254	318	Horizontal
3	2508.4603	48.19	-46.65	27.80	-65.92	-13.00	52.92	117	332	Horizontal
4	4797.0719	48.54	-42.88	30.78	-58.82	-13.00	45.82	163	336	Horizontal
5	7471.2588	45.52	-38.37	36.84	-51.27	-13.00	38.27	252	327	Horizontal
6	9909.2764	43.60	-35.33	38.61	-48.38	-13.00	35.38	261	59	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	1104.0442	49.10	-47.73	24.32	-69.57	-13.00	56.57	214	218	Vertical
2	1559.8224	51.11	-47.61	24.38	-67.38	-40.00	27.38	322	254	Vertical
3	2378.8552	48.29	-46.62	27.48	-66.11	-13.00	53.11	211	223	Vertical
4	3910.7164	48.97	-44.36	29.74	-60.91	-13.00	47.91	125	272	Vertical
5	6043.0817	47.14	-40.61	33.43	-55.30	-13.00	42.30	226	1	Vertical
6	9888.3955	43.45	-35.32	38.51	-48.62	-13.00	35.62	330	71	Vertical



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Test Band = LTE_13_TM1
Test Channel = HCH-5M

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	1201.9681	49.26	-47.89	24.60	-69.29	-13.00	56.29	230	322	Horizontal
2	1564.8626	54.87	-47.61	24.47	-63.53	-40.00	23.53	122	348	Horizontal
3	2998.4399	47.96	-45.67	28.59	-64.38	-13.00	51.38	321	112	Horizontal
4	4903.6361	48.00	-42.96	30.91	-59.31	-13.00	46.31	118	322	Horizontal
5	7399.976	45.43	-38.35	36.70	-51.48	-13.00	38.48	256	304	Horizontal
6	9993.5197	43.60	-35.65	38.69	-48.62	-13.00	35.62	320	188	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	1120.2448	48.90	-47.75	24.38	-69.73	-13.00	56.73	263	94	Vertical
2	1583.2233	48.86	-47.61	24.80	-69.21	-40.00	29.21	332	313	Vertical
3	2399.376	48.43	-46.61	27.40	-66.04	-13.00	53.04	149	242	Vertical
4	4796.3519	48.35	-42.88	30.78	-59.01	-13.00	46.01	332	264	Vertical
5	7484.5794	45.32	-38.38	36.87	-51.45	-13.00	38.45	201	36	Vertical
6	9956.4383	44.01	-35.51	38.66	-48.10	-13.00	35.10	267	251	Vertical



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Test Band = LTE_13_TM1

Test Channel = MCH-10M

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	1555.1422	55.16	-47.61	24.29	-63.42	-13.00	50.42	226	6	Horizontal
2	1596.1838	48.44	-47.61	25.03	-69.40	-40.00	29.40	323	110	Horizontal
3	2343.9338	48.45	-46.63	27.54	-65.90	-13.00	52.90	334	164	Horizontal
4	3948.1579	48.76	-44.19	29.89	-60.80	-13.00	47.80	102	326	Horizontal
5	7356.4143	45.72	-38.54	36.53	-51.55	-13.00	38.55	263	195	Horizontal
6	9894.8758	43.55	-35.30	38.56	-48.45	-13.00	35.45	301	254	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	1555.5022	50.64	-47.61	24.30	-67.93	-13.00	54.93	158	58	Vertical
2	1604.1042	48.69	-47.60	25.13	-69.04	-40.00	29.04	226	228	Vertical
3	2517.4607	48.18	-46.60	27.80	-65.88	-13.00	52.88	325	27	Vertical
4	3600.744	48.95	-44.48	28.91	-61.88	-13.00	48.88	221	45	Vertical
5	7428.7772	45.40	-38.36	36.76	-51.46	-13.00	38.46	140	170	Vertical
6	9949.958	43.60	-35.48	38.65	-48.49	-13.00	35.49	196	31	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	3.98	0.005090	PASS
Band13	10MHz	QPSK	23230	50RB#0	VN	NT	-8.58	-0.010972	PASS
Band13	10MHz	QPSK	23230	50RB#0	VH	NT	-5.05	-0.006458	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	NV	-30	-4.03	-0.005153	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-20	-2.32	-0.002967	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-10	-7.28	-0.009309	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	0	-3.69	-0.004719	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	10	-6.48	-0.008286	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	20	-7.85	-0.010038	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	30	2.19	0.002801	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	40	-3.95	-0.005051	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	50	-8.38	-0.010716	PASS

---End of Attachment---



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