Appendix B.6

LTE Band 13

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Effective (Isotropic) Radiated Power Output Data

Test ResultAnt7

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	23.22	10.12	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#12	23.35	10.25	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#24	23.25	10.15	34.77	PASS
Band13	5MHz	QPSK	23205	25RB#0	22.37	9.27	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#0	23.51	10.41	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#12	23.46	10.36	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#24	23.36	10.26	34.77	PASS
Band13	5MHz	QPSK	23230	25RB#0	22.25	9.15	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#0	23.63	10.53	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#12	23.31	10.21	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#24	23.32	10.22	34.77	PASS
Band13	5MHz	QPSK	23255	25RB#0	22.39	9.29	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#0	22.33	9.23	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#12	22.56	9.46	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#24	22.46	9.36	34.77	PASS
Band13	5MHz	16QAM	23205	25RB#0	21.37	8.27	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#0	22.51	9.41	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#12	22.5	9.4	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#24	22.37	9.27	34.77	PASS
Band13	5MHz	16QAM	23230	25RB#0	21.32	8.22	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#0	22.62	9.52	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#12	22.48	9.38	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#24	22.39	9.29	34.77	PASS
Band13	5MHz	16QAM	23255	25RB#0	21.32	8.22	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#0	21.6	8.5	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#12	21.54	8.44	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#24	21.63	8.53	34.77	PASS

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Band13	5MHz	64QAM	23205	25RB#0	20.13	7.03	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#0	21.66	8.56	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#12	21.68	8.58	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#24	21.41	8.31	34.77	PASS
Band13	5MHz	64QAM	23230	25RB#0	20.3	7.2	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#0	21.59	8.49	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#12	21.57	8.47	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#24	21.62	8.52	34.77	PASS
Band13	5MHz	64QAM	23255	25RB#0	20.2	7.1	34.77	PASS
Band13	5MHz	256QAM	23205	1RB#0	18.28	5.18	34.77	PASS
Band13	5MHz	256QAM	23205	1RB#12	18.44	5.34	34.77	PASS
Band13	5MHz	256QAM	23205	1RB#24	18.32	5.22	34.77	PASS
Band13	5MHz	256QAM	23205	25RB#0	18.23	5.13	34.77	PASS
Band13	5MHz	256QAM	23230	1RB#0	18.43	5.33	34.77	PASS
Band13	5MHz	256QAM	23230	1RB#12	18.41	5.31	34.77	PASS
Band13	5MHz	256QAM	23230	1RB#24	18.31	5.21	34.77	PASS
Band13	5MHz	256QAM	23230	25RB#0	18.18	5.08	34.77	PASS
Band13	5MHz	256QAM	23255	1RB#0	18.29	5.19	34.77	PASS
Band13	5MHz	256QAM	23255	1RB#12	18.23	5.13	34.77	PASS
Band13	5MHz	256QAM	23255	1RB#24	18.36	5.26	34.77	PASS
Band13	5MHz	256QAM	23255	25RB#0	18.31	5.21	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#0	23.25	10.15	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#24	23.46	10.36	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#49	23.36	10.26	34.77	PASS
Band13	10MHz	QPSK	23230	50RB#0	22.25	9.15	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#0	22.52	9.42	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#24	22.61	9.51	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#49	22.48	9.38	34.77	PASS
Band13	10MHz	16QAM	23230	50RB#0	21.18	8.08	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#0	21.52	8.42	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#24	21.56	8.46	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#49	21.47	8.37	34.77	PASS

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Band13	10MHz	64QAM	23230	50RB#0	20.24	7.14	34.77	PASS
Band13	10MHz	256QAM	23230	1RB#0	18.53	5.43	34.77	PASS
Band13	10MHz	256QAM	23230	1RB#24	18.45	5.35	34.77	PASS
Band13	10MHz	256QAM	23230	1RB#49	18.21	5.11	34.77	PASS
Band13	10MHz	256QAM	23230	50RB#0	18.18	5.08	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	5.54	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	6.22	13	PASS
Band13	10MHz	64QAM	23230	50RB#0	6.42	13	PASS
Band13	10MHz	256QAM	23230	50RB#0	6.44	13	PASS

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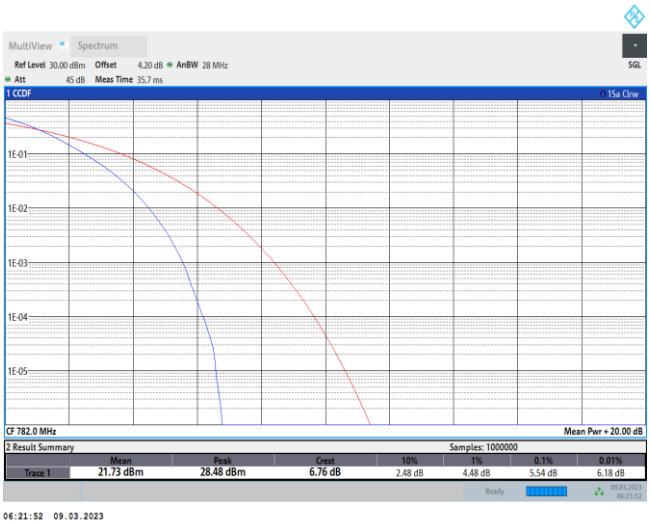
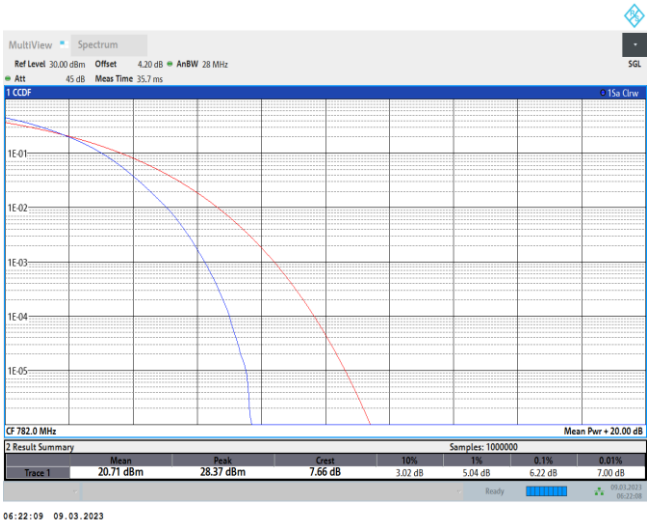
Test Graphs

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



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



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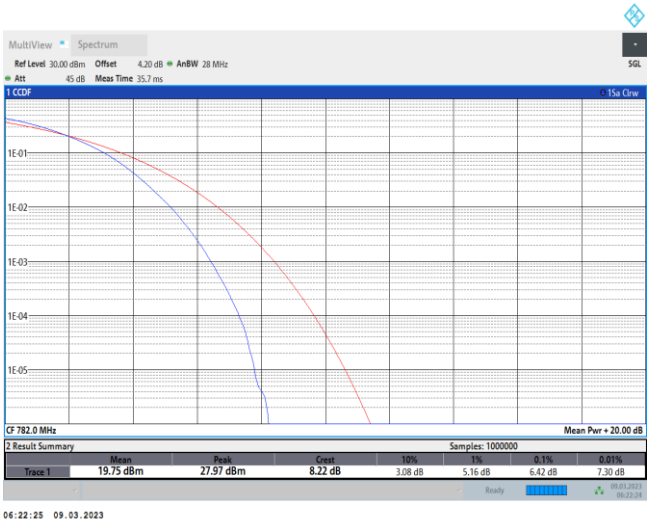
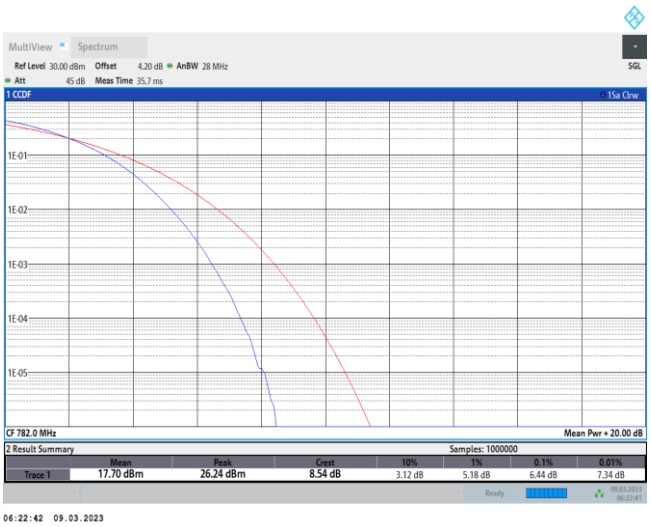
Band13-10MHz-64QAM-23230-50RB#0



Band13-10MHz-256QAM-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	4.462	4.87	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.456	4.87	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.464	4.87	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.459	4.84	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.463	4.85	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.464	4.86	PASS
Band13	5MHz	64QAM	23205	25RB#0	4.467	4.84	PASS
Band13	5MHz	64QAM	23230	25RB#0	4.468	4.87	PASS
Band13	5MHz	64QAM	23255	25RB#0	4.469	4.86	PASS
Band13	5MHz	256QAM	23205	25RB#0	4.464	4.81	PASS
Band13	5MHz	256QAM	23230	25RB#0	4.469	4.82	PASS
Band13	5MHz	256QAM	23255	25RB#0	4.468	4.83	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.917	9.58	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.906	9.70	PASS
Band13	10MHz	64QAM	23230	50RB#0	8.920	9.64	PASS
Band13	10MHz	256QAM	23230	50RB#0	8.871	9.54	PASS

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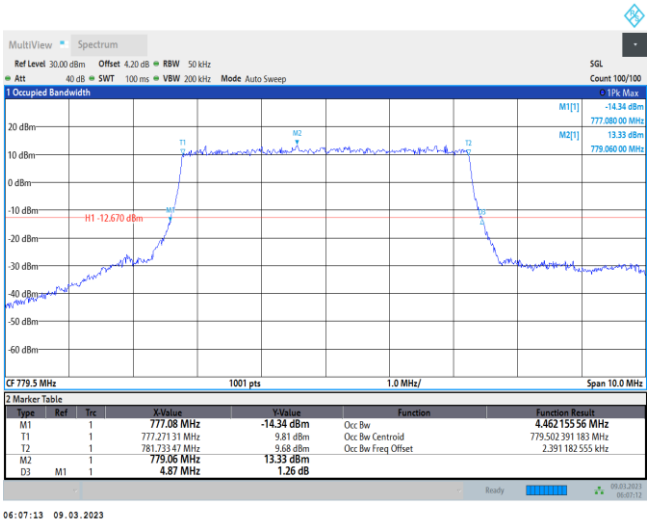
Test Graphs

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



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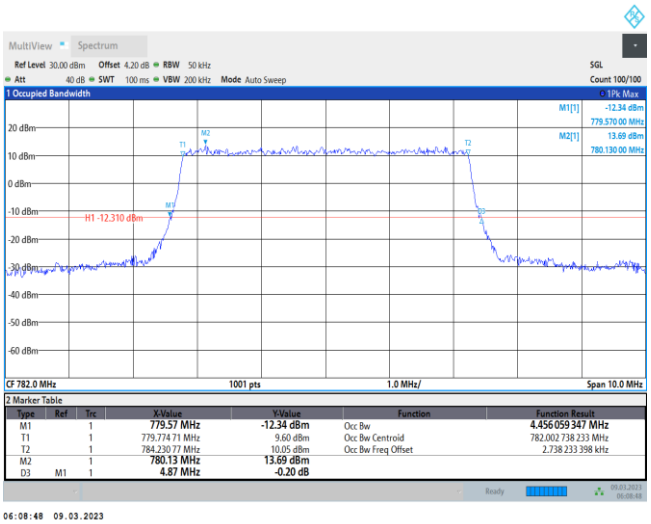

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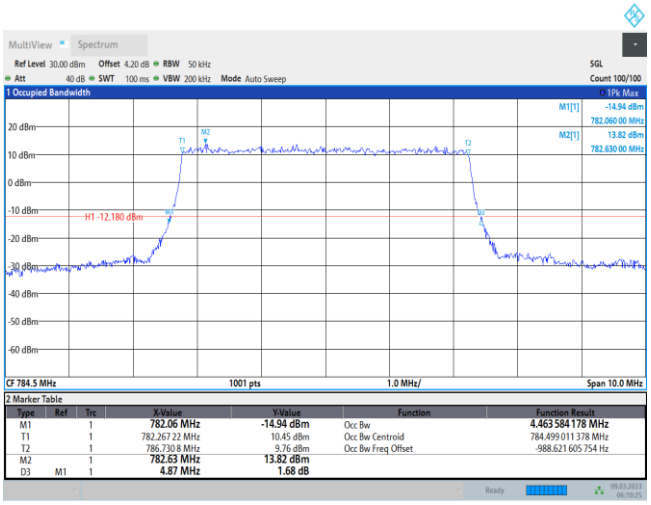
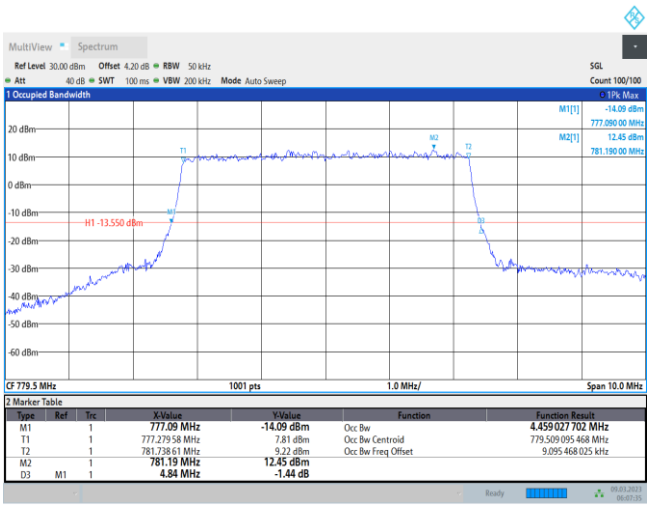
Band13-5MHz-QPSK-23255-25RB#0



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



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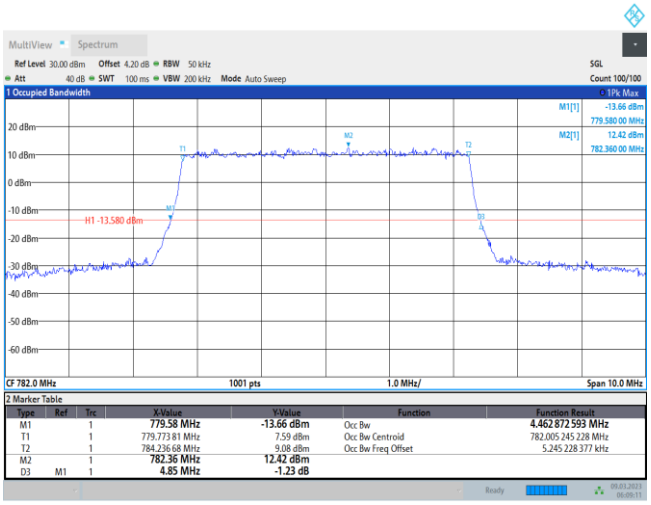
Band13-5MHz-16QAM-23230-25RB#0



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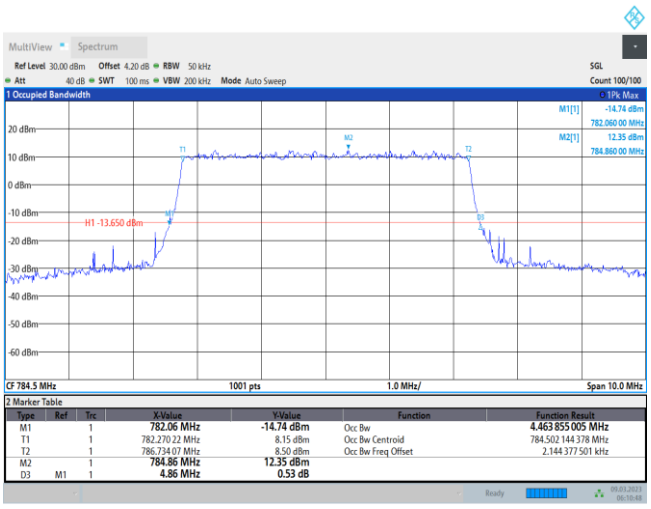

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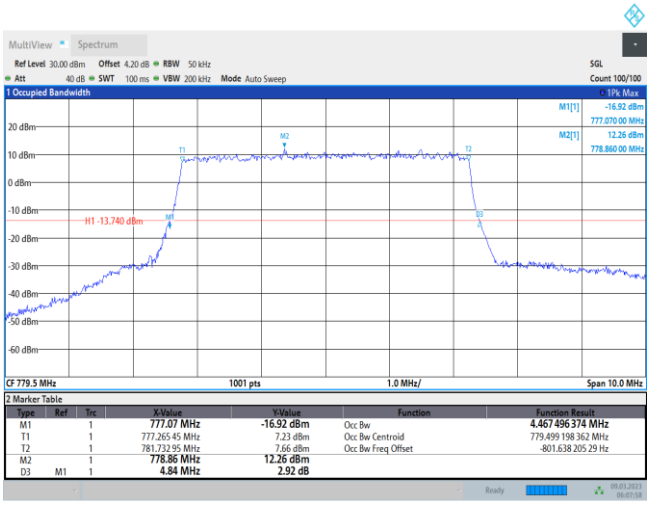
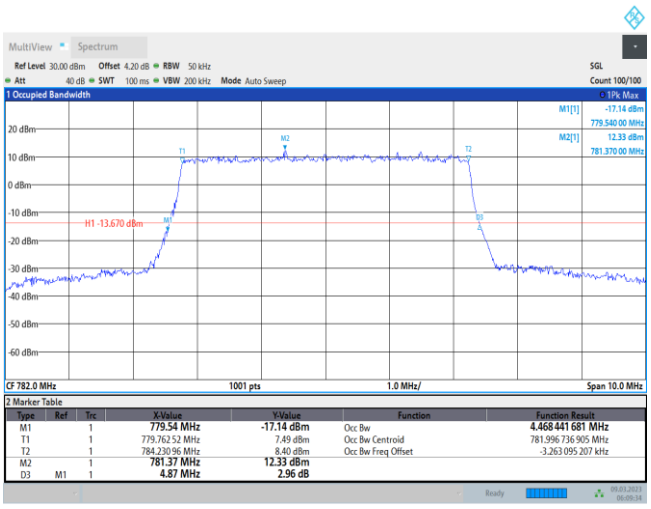
Band13-5MHz-64QAM-23205-25RB#0



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



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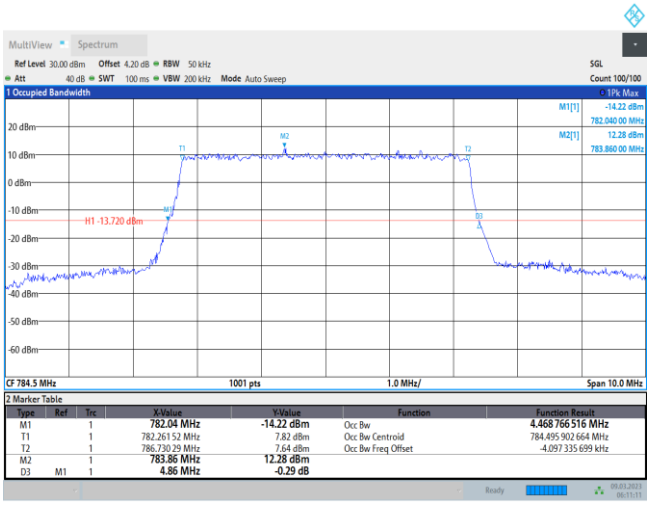
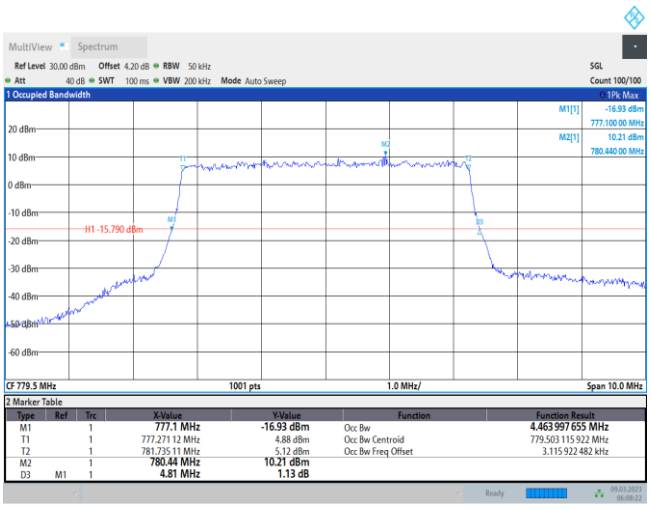
Band13-5MHz-64QAM-23255-25RB#0



Band13-5MHz-256QAM-23205-25RB#0



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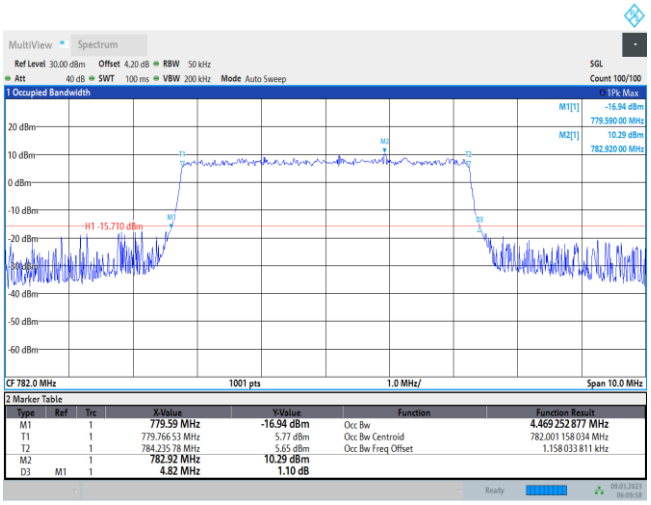
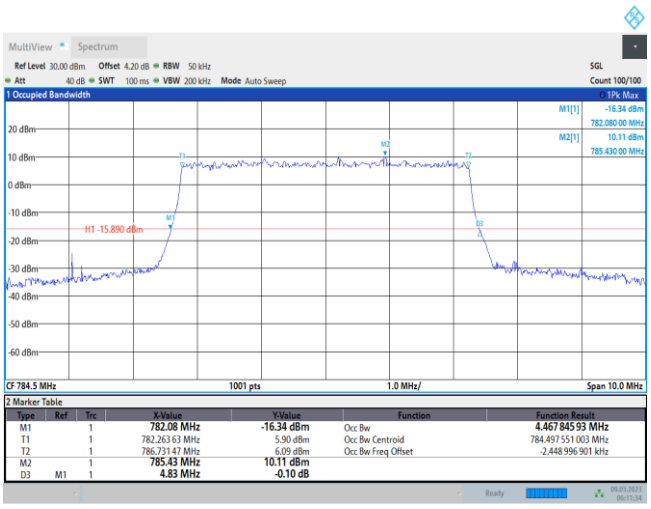
Band13-5MHz-256QAM-23230-25RB#0



Band13-5MHz-256QAM-23255-25RB#0



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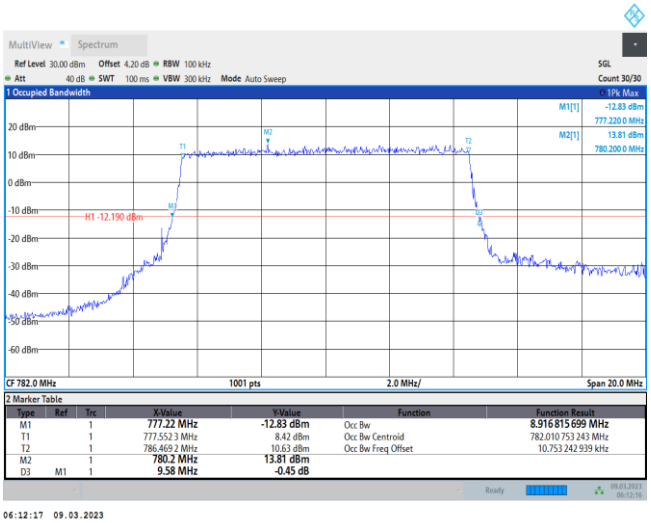
Band13-10MHz-QPSK-23230-50RB#0



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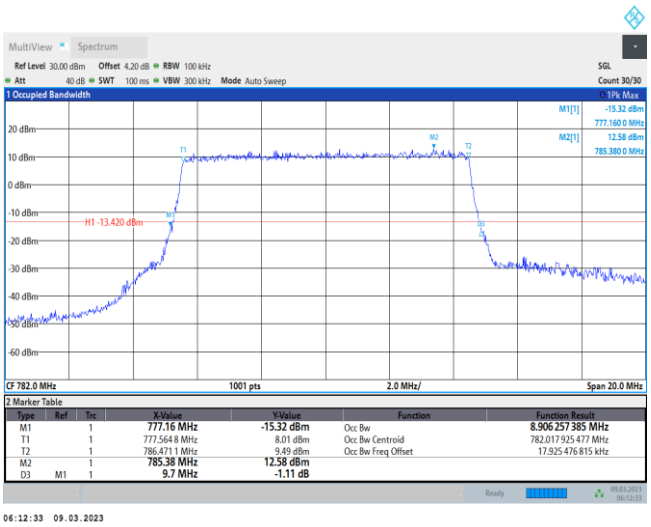

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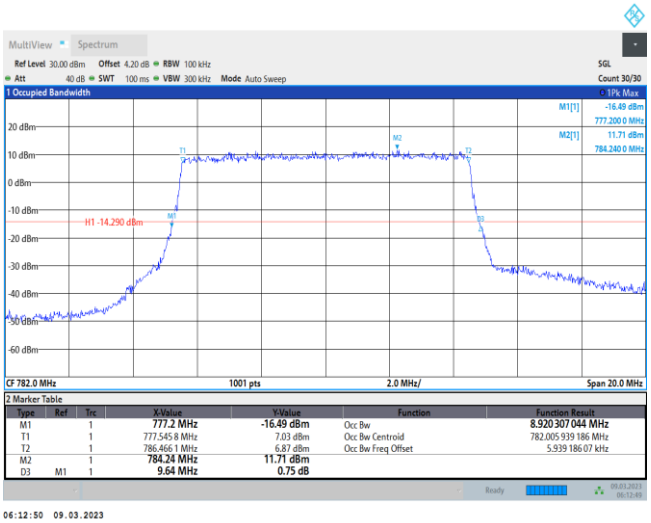
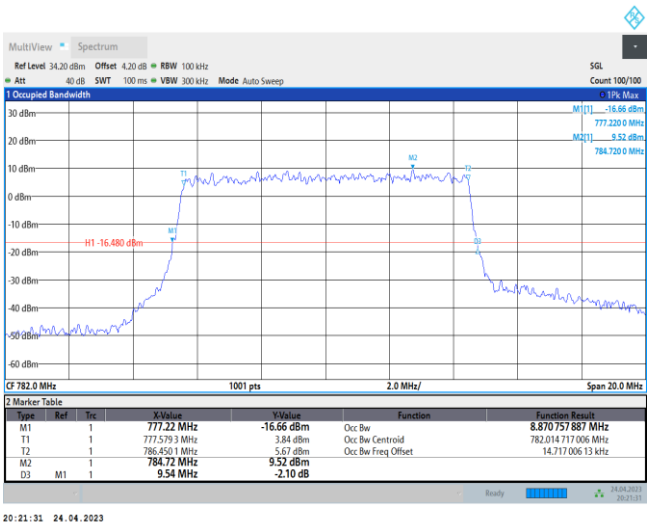
Band13-10MHz-64QAM-23230-50RB#0



Band13-10MHz-256QAM-23230-50RB#0



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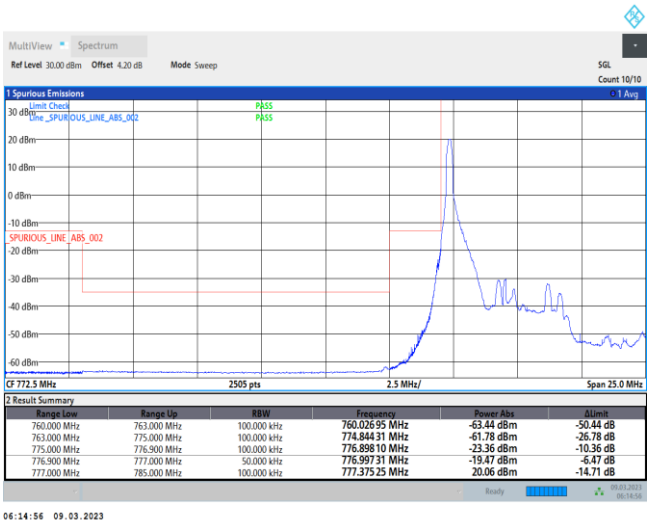
Band Edge

Test Graphs

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



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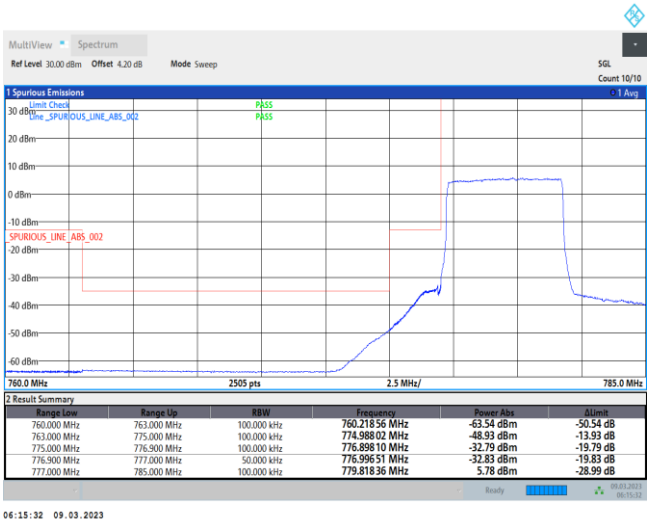

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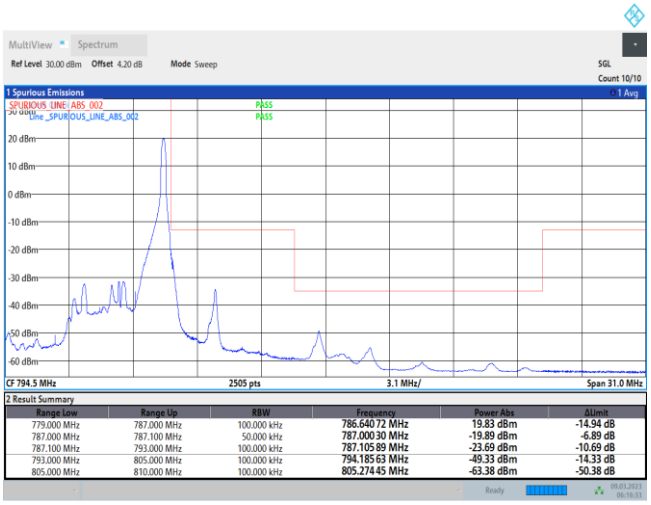
Band13-5MHz-QPSK-23255-1RB#24



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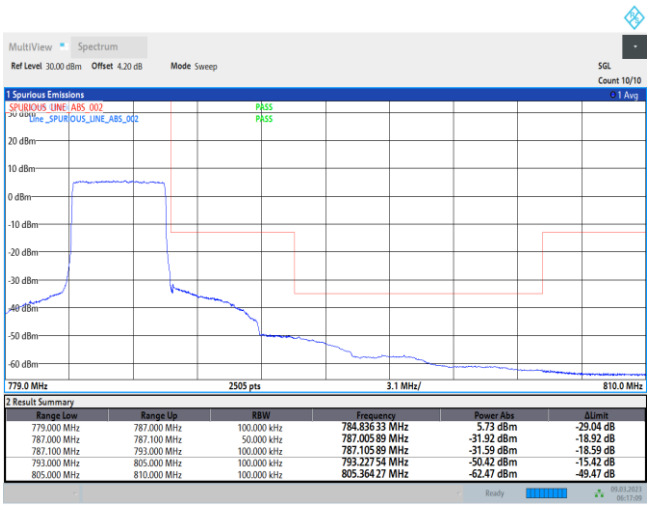

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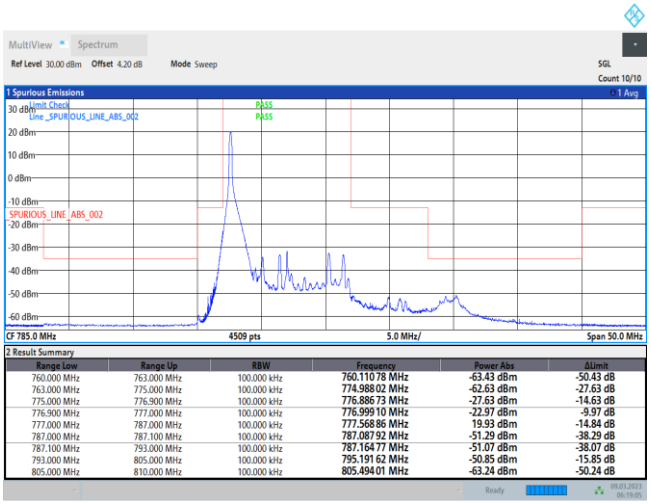
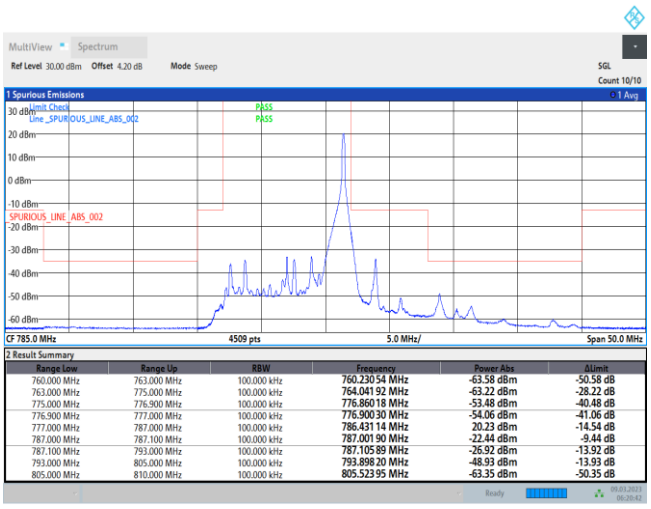
Band13-10MHz-QPSK-23230-1RB#0



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



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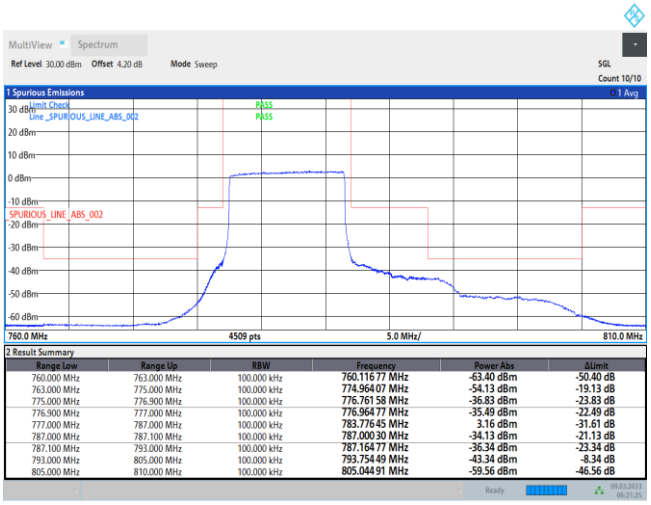
Band13-10MHz-QPSK-23230-50RB#0



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
760.000 MHz	763.000 MHz	100.000 kHz	760.116 77 MHz	-63.40 dBm	-50.40 dB
763.000 MHz	775.000 MHz	100.000 kHz	774.964 07 MHz	-54.13 dBm	-19.13 dB
775.000 MHz	776.900 MHz	100.000 kHz	776.761 58 MHz	-36.83 dBm	-23.83 dB
776.900 MHz	777.000 MHz	100.000 kHz	776.964 77 MHz	-35.49 dBm	-22.49 dB
777.000 MHz	787.000 MHz	100.000 kHz	783.776 45 MHz	3.16 dBm	-31.61 dB
787.000 MHz	787.100 MHz	100.000 kHz	787.000 30 MHz	-34.13 dBm	-21.13 dB
787.100 MHz	793.000 MHz	100.000 kHz	787.164 77 MHz	-36.34 dBm	-23.34 dB
793.000 MHz	805.000 MHz	100.000 kHz	793.754 49 MHz	-43.34 dBm	-8.34 dB
805.000 MHz	810.000 MHz	100.000 kHz	805.044 91 MHz	-59.56 dBm	-46.56 dB

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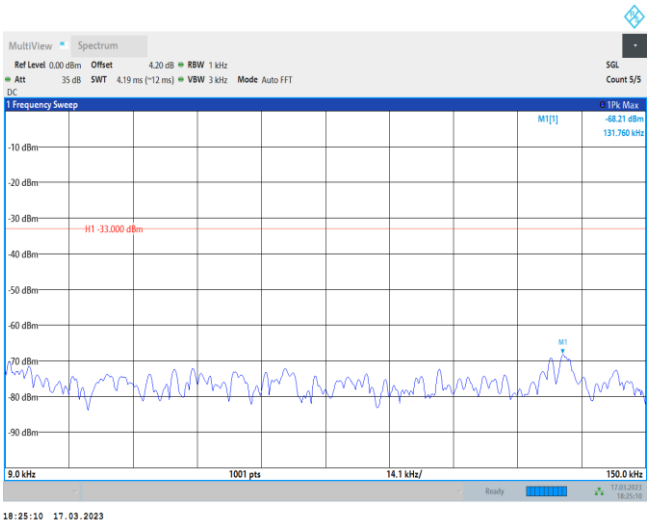
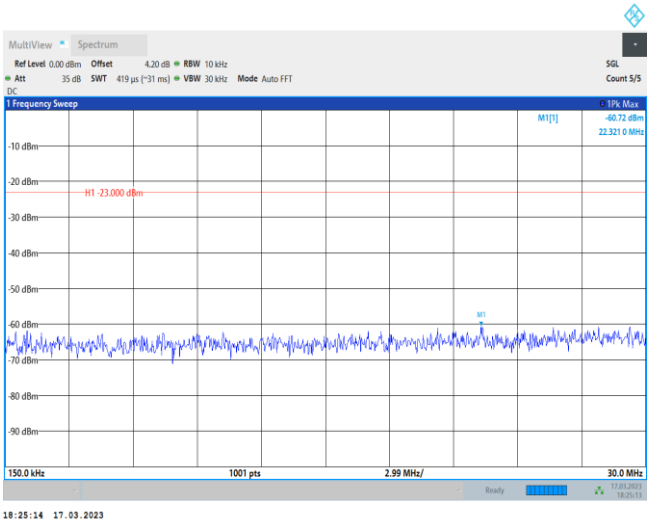
Conducted Spurious Emission

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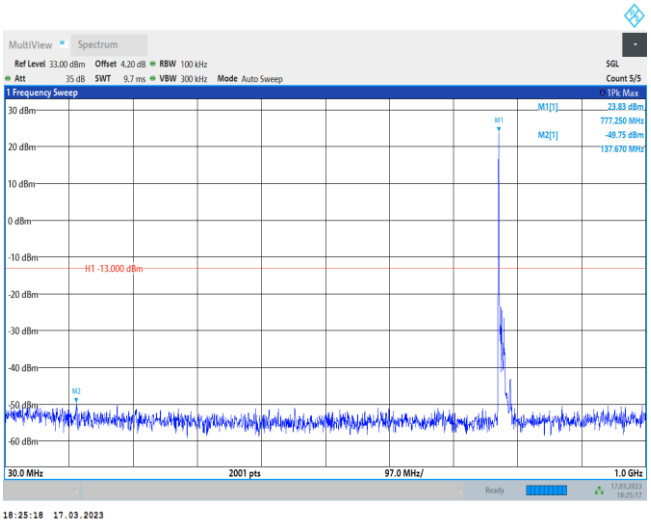
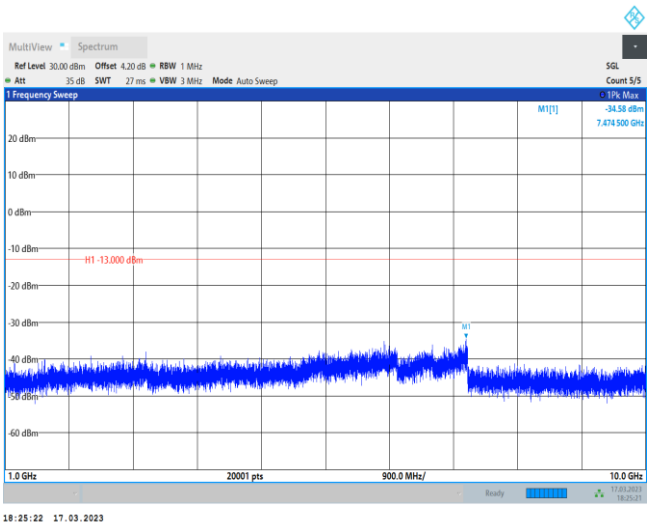
Band13-10MHz-QPSK-23230-1RB#0-Range3:30~1000MHz



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



Note: The limit of 1559-1610MHZ is -40dBm, and the worst point meets the limit requirement

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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]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	544.1300	45.65	-47.10	25.37	-71.34	-13.00	58.34	298	335	Horizontal
2	1555.1800	44.46	-48.30	25.41	-73.69	-13.00	60.69	253	97	Horizontal
3	2332.7700	43.98	-47.48	27.41	-71.36	-13.00	58.36	162	132	Horizontal
4	3110.3600	45.22	-46.70	29.53	-67.21	-13.00	54.21	178	189	Horizontal
5	3887.9500	41.73	-46.22	30.54	-69.21	-13.00	56.21	156	256	Horizontal
6	4665.5400	41.36	-45.80	31.91	-67.79	-13.00	54.79	130	12	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	544.1300	45.40	-47.10	25.37	-71.59	-13.00	58.59	247	215	Vertical
2	1555.1800	45.03	-48.30	25.41	-73.12	-13.00	60.12	162	0	Vertical
3	2332.7700	48.13	-47.48	27.41	-67.21	-13.00	54.21	298	281	Vertical
4	3110.2857	53.24	-46.70	29.53	-59.19	-13.00	46.19	258	227	Vertical
5	3887.9500	41.79	-46.22	30.54	-69.15	-13.00	56.15	162	110	Vertical
6	4665.5400	41.24	-45.80	31.91	-67.91	-13.00	54.91	203	70	Vertical

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Test Band = LTE Band13_5M_ TM1
Test Channel = Low

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1554.6800	45.04	-48.30	25.41	-73.11	-13.00	60.11	216	148	Horizontal
2	2332.0200	43.60	-47.48	27.41	-71.74	-13.00	58.74	134	356	Horizontal
3	3109.3600	48.25	-46.71	29.53	-64.18	-13.00	51.18	296	189	Horizontal
4	3886.7000	41.93	-46.22	30.53	-69.02	-13.00	56.02	287	58	Horizontal
5	4664.0400	40.79	-45.80	31.91	-68.36	-13.00	55.36	146	132	Horizontal
6	5441.3800	41.05	-45.04	32.85	-66.41	-13.00	53.41	201	307	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1554.6800	45.02	-48.30	25.41	-73.13	-13.00	60.13	299	2	Vertical
2	2332.0200	47.58	-47.48	27.41	-67.76	-13.00	54.76	167	255	Vertical
3	3109.3600	53.07	-46.71	29.53	-59.36	-13.00	46.36	284	201	Vertical
4	3886.7000	41.29	-46.22	30.53	-69.66	-13.00	56.66	167	307	Vertical
5	4664.0400	41.43	-45.80	31.91	-67.72	-13.00	54.72	248	360	Vertical
6	5441.3800	40.93	-45.04	32.85	-66.53	-13.00	53.53	213	25	Vertical

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Test Band = LTE Band13_5M_ TM1
Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1559.6800	46.36	-48.30	25.40	-71.79	-40.00	31.79	199	81	Horizontal
2	2339.5200	43.43	-47.48	27.41	-71.90	-13.00	58.90	274	0	Horizontal
3	3119.3600	43.60	-46.66	29.55	-68.77	-13.00	55.77	186	104	Horizontal
4	3899.2000	41.71	-46.23	30.56	-69.22	-13.00	56.22	253	78	Horizontal
5	4679.0400	40.89	-45.80	31.95	-68.22	-13.00	55.22	211	55	Horizontal
6	5458.8800	40.98	-45.07	32.87	-66.49	-13.00	53.49	268	314	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1559.6800	46.76	-48.30	25.40	-71.39	-40.00	31.39	257	320	Vertical
2	2339.5200	44.52	-47.48	27.41	-70.81	-13.00	57.81	144	255	Vertical
3	3119.3600	45.42	-46.66	29.55	-66.95	-13.00	53.95	249	214	Vertical
4	3899.2000	41.46	-46.23	30.56	-69.47	-13.00	56.47	267	12	Vertical
5	4679.0400	40.60	-45.80	31.95	-68.51	-13.00	55.51	153	328	Vertical
6	5458.8800	41.32	-45.07	32.87	-66.15	-13.00	53.15	205	360	Vertical

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Test Band = LTE Band13_5M_ TM1
Test Channel = High

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1564.6800	43.66	-48.29	25.40	-74.50	-40.00	34.50	156	314	Horizontal
2	2347.0200	43.67	-47.48	27.41	-71.65	-13.00	58.65	219	328	Horizontal
3	3125.1429	52.32	-46.63	29.56	-60.02	-13.00	47.02	283	136	Horizontal
4	3911.7000	41.53	-46.23	30.59	-69.36	-13.00	56.36	226	38	Horizontal
5	4694.0400	41.32	-45.80	32.00	-67.74	-13.00	54.74	174	64	Horizontal
6	5476.3800	41.22	-45.10	32.88	-66.26	-13.00	53.26	186	124	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1564.6800	45.41	-48.29	25.40	-72.75	-40.00	32.75	274	11	Vertical
2	2343.4286	49.62	-47.48	27.41	-65.71	-13.00	52.71	185	242	Vertical
3	3129.3600	48.02	-46.61	29.56	-64.29	-13.00	51.29	163	215	Vertical
4	3911.7000	41.60	-46.23	30.59	-69.29	-13.00	56.29	229	2	Vertical
5	4694.0400	41.48	-45.80	32.00	-67.58	-13.00	54.58	174	234	Vertical
6	5476.3800	40.71	-45.10	32.88	-66.77	-13.00	53.77	156	356	Vertical

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Test Band = LTE 13A_25A_ TM1
Test Channel = Low

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4843.5	46.26	-45.54	32.44	-62.09	-13.00	49.09	122	60	Horizontal
2	6040.5	41.18	-44.68	34.14	-64.61	-13.00	51.61	145	209	Horizontal
3	7206	40.34	-43.44	36.60	-61.76	-13.00	48.76	136	43	Horizontal
4	8679	38.74	-41.61	37.88	-60.25	-13.00	47.25	256	0	Horizontal
5	11208	34.10	-37.39	39.11	-59.44	-13.00	46.44	188	0	Horizontal
6	12227.25	32.90	-37.47	39.12	-60.71	-13.00	47.71	195	315	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4323.75	42.28	-45.61	31.35	-67.23	-13.00	54.23	248	164	Vertical
2	4843.5	48.25	-45.54	32.44	-60.10	-13.00	47.10	174	150	Vertical
3	7656	41.67	-43.04	36.50	-60.13	-13.00	47.13	145	121	Vertical
4	8403	39.30	-41.46	37.34	-60.08	-13.00	47.08	159	240	Vertical
5	10700.25	33.93	-37.88	39.14	-60.07	-13.00	47.07	152	8	Vertical
6	13716.75	32.77	-36.20	40.04	-58.65	-13.00	45.65	196	257	Vertical

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Test Band = LTE 13A_25A_ TM1
Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3125.25	49.05	-46.14	29.56	-62.79	-13.00	49.79	148	165	Horizontal
2	4843.5	46.26	-45.54	32.44	-62.09	-13.00	49.09	156	270	Horizontal
3	6180.75	40.75	-44.70	34.19	-65.02	-13.00	52.02	136	316	Horizontal
4	7425	40.71	-43.34	36.48	-61.42	-13.00	48.42	251	30	Horizontal
5	9363.75	36.78	-39.97	38.46	-59.99	-13.00	46.99	174	0	Horizontal
6	11217	34.48	-37.40	39.11	-59.07	-13.00	46.07	159	242	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3933	42.29	-46.20	30.64	-68.53	-13.00	55.53	215	343	Vertical
2	4843.5	48.31	-45.54	32.44	-60.04	-13.00	47.04	148	44	Vertical
3	6314.25	40.74	-44.52	34.44	-64.60	-13.00	51.60	174	134	Vertical
4	7656	42.48	-43.04	36.50	-59.32	-13.00	46.32	156	314	Vertical
5	9094.5	37.72	-40.39	38.27	-59.66	-13.00	46.66	136	7	Vertical
6	10360.5	35.12	-39.04	38.85	-60.33	-13.00	47.33	255	300	Vertical

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Member of the SGS Group (SGS SA)

Test Band = LTE 13A_25A_ TM1
Test Channel = High

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3125.25	49.09	-46.14	29.56	-62.75	-13.00	49.75	215	151	Horizontal
2	4843.5	45.97	-45.54	32.44	-62.38	-13.00	49.38	145	17	Horizontal
3	6657.75	40.98	-44.04	35.56	-62.76	-13.00	49.76	185	256	Horizontal
4	8738.25	39.16	-41.52	37.98	-59.64	-13.00	46.64	136	227	Horizontal
5	11232.75	33.65	-37.40	39.11	-59.90	-13.00	46.90	256	151	Horizontal
6	13699.5	32.28	-36.16	40.06	-59.08	-13.00	46.08	291	1	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3975	42.46	-46.10	30.74	-68.16	-13.00	55.16	245	151	Vertical
2	4843.5	48.46	-45.54	32.44	-59.89	-13.00	46.89	156	120	Vertical
3	7656	42.46	-43.04	36.50	-59.34	-13.00	46.34	136	314	Vertical
4	9639.75	36.19	-39.58	38.40	-60.25	-13.00	47.25	258	210	Vertical
5	11577	32.39	-36.99	38.92	-60.95	-13.00	47.95	195	105	Vertical
6	16488.75	32.88	-33.91	37.90	-58.39	-13.00	45.39	174	314	Vertical

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Member of the SGS Group (SGS SA)

Test Band = LTE 13A_66A_ TM1
Test Channel = Low

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1554.6800	27.41	-25.03	25.41	-67.47	-13.00	54.47	175	282	Horizontal
2	2332.0200	28.02	-23.58	27.41	-63.41	-13.00	50.41	215	1	Horizontal
3	3109.3600	43.33	-46.23	29.53	-68.63	-13.00	55.63	288	29	Horizontal
4	5106.2700	40.82	-45.36	32.94	-66.87	-13.00	53.87	239	344	Horizontal
5	6808.3600	40.60	-44.16	35.85	-62.97	-13.00	49.97	214	105	Horizontal
6	8510.4500	38.34	-41.59	37.56	-60.95	-13.00	47.95	185	16	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1554.6800	27.42	-25.03	25.41	-67.46	-13.00	54.46	287	20	Vertical
2	2332.0200	28.01	-23.58	27.41	-63.42	-13.00	50.42	149	303	Vertical
3	3109.3600	43.26	-46.23	29.53	-68.70	-13.00	55.70	256	210	Vertical
4	5106.2700	40.99	-45.36	32.94	-66.70	-13.00	53.70	235	302	Vertical
5	6808.3600	41.06	-44.16	35.85	-62.51	-13.00	49.51	141	359	Vertical
6	8510.4500	38.08	-41.59	37.56	-61.21	-13.00	48.21	218	317	Vertical

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Test Band = LTE 13A_66A_ TM1
Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1559.6800	27.93	-25.02	25.40	-66.95	-13.00	53.95	187	357	Horizontal
2	2339.5200	28.34	-23.58	27.41	-63.09	-13.00	50.09	143	357	Horizontal
3	3119.3600	43.02	-46.17	29.55	-68.86	-13.00	55.86	306	164	Horizontal
4	5181.2700	41.04	-45.30	32.98	-66.54	-13.00	53.54	259	14	Horizontal
5	6908.3600	40.31	-44.05	35.97	-63.03	-13.00	50.03	242	285	Horizontal
6	8635.4500	37.95	-41.46	37.81	-60.96	-13.00	47.96	186	316	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1559.6800	27.76	-25.02	25.40	-67.12	-13.00	54.12	187	146	Vertical
2	2339.5200	28.11	-23.58	27.41	-63.32	-13.00	50.32	129	226	Vertical
3	3119.3600	42.99	-46.17	29.55	-68.89	-13.00	55.89	301	3	Vertical
4	5181.2700	41.35	-45.30	32.98	-66.23	-13.00	53.23	144	360	Vertical
5	6908.3600	40.08	-44.05	35.97	-63.26	-13.00	50.26	152	353	Vertical
6	8635.4500	39.00	-41.46	37.81	-59.91	-13.00	46.91	235	239	Vertical

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Test Band = LTE 13A_66A_ TM1
Test Channel = High

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1564.6800	27.50	-25.01	25.40	-67.37	-13.00	54.37	217	357	Horizontal
2	2347.0200	28.16	-23.58	27.41	-63.26	-13.00	50.26	289	26	Horizontal
3	3129.3600	42.92	-46.12	29.56	-68.89	-13.00	55.89	256	287	Horizontal
4	5256.2700	41.39	-45.17	32.94	-66.11	-13.00	53.11	214	47	Horizontal
5	7008.3600	39.29	-43.61	36.10	-63.48	-13.00	50.48	133	152	Horizontal
6	8760.4500	38.31	-41.42	38.02	-60.36	-13.00	47.36	150	106	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1564.6800	27.28	-25.01	25.40	-67.59	-13.00	54.59	187	142	Vertical
2	2347.0200	27.91	-23.58	27.41	-63.51	-13.00	50.51	193	304	Vertical
3	3129.3600	42.81	-46.12	29.56	-69.00	-13.00	56.00	263	29	Vertical
4	5256.2700	40.99	-45.17	32.94	-66.51	-13.00	53.51	274	299	Vertical
5	7008.3600	39.90	-43.61	36.10	-62.87	-13.00	49.87	185	4	Vertical
6	8760.4500	37.67	-41.42	38.02	-61.00	-13.00	48.00	205	240	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 (℃)	Deviation (Hz)	Deviation (ppm)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	VL	NT	-3.40	-0.004348	PASS
Band13	10MHz	QPSK	23230	50RB#0	VN	NT	-16.20	-0.020716	PASS
Band13	10MHz	QPSK	23230	50RB#0	VH	NT	-3.20	-0.004092	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	NV	-30	-7.60	-0.009719	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-20	-3.00	-0.003836	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-10	-3.30	-0.004220	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	0	-2.50	-0.003197	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	10	-2.00	-0.002558	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	20	1.40	0.001790	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	30	-2.30	-0.002941	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	40	-1.20	-0.001535	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	50	2.40	0.003069	PASS

---End of Attachment---

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