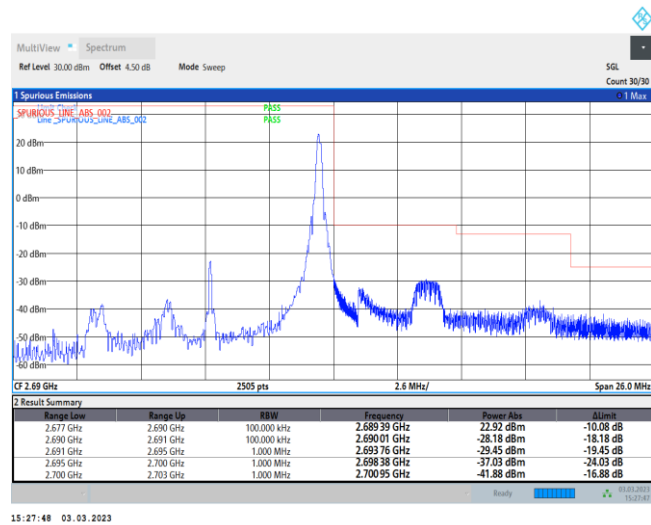
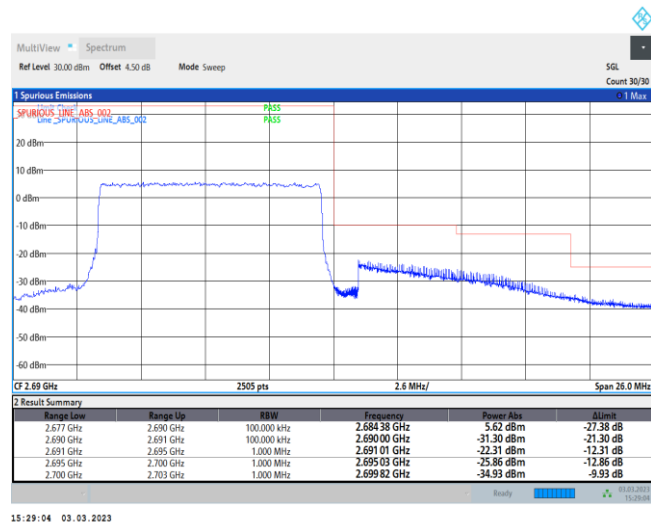


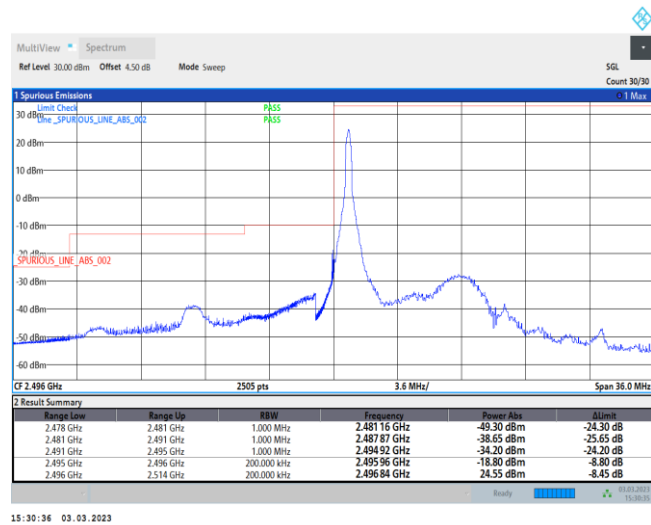
Band41-10MHz-QPSK-41540-1RB#49



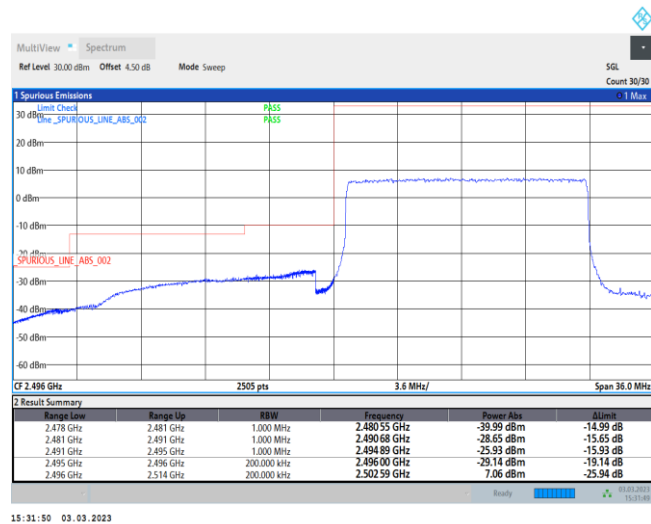
Band41-10MHz-QPSK-41540-50RB#0



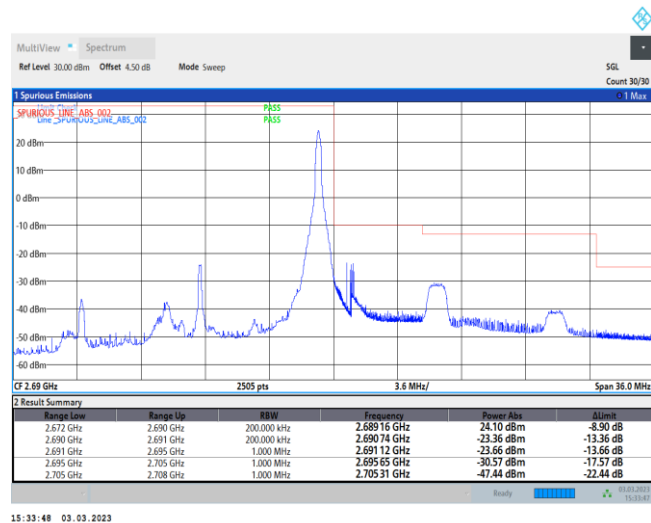
Band41-15MHz-QPSK-39725-1RB#0



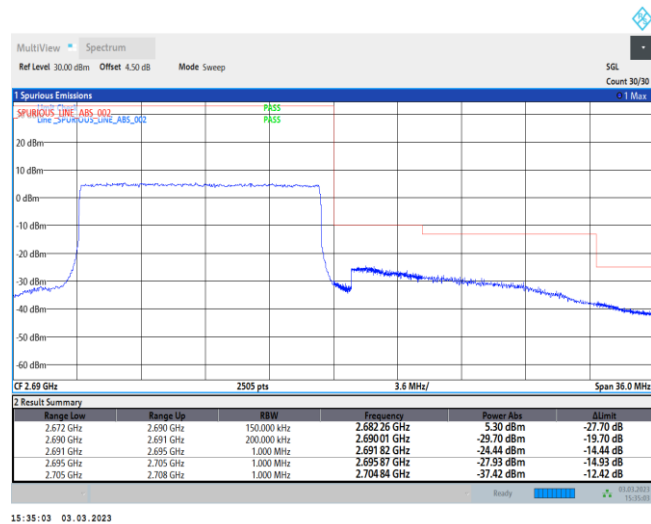
Band41-15MHz-QPSK-39725-75RB#0



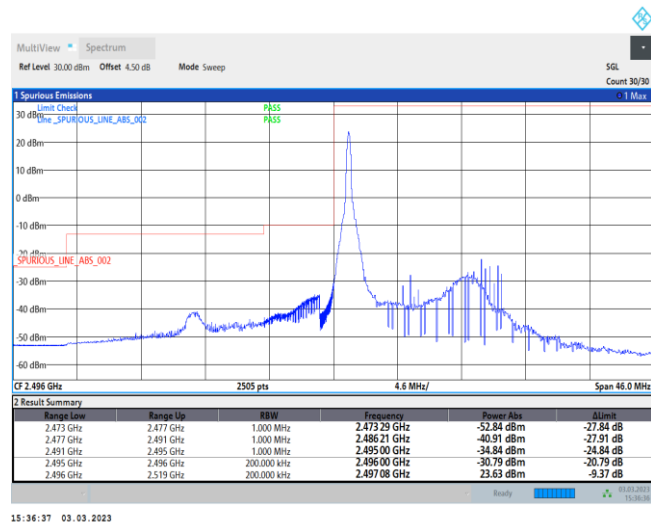
Band41-15MHz-QPSK-41515-1RB#74



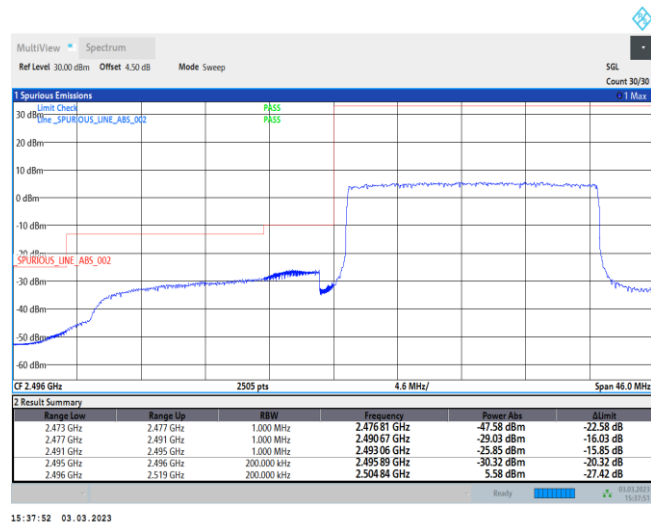
Band41-15MHz-QPSK-41515-75RB#0



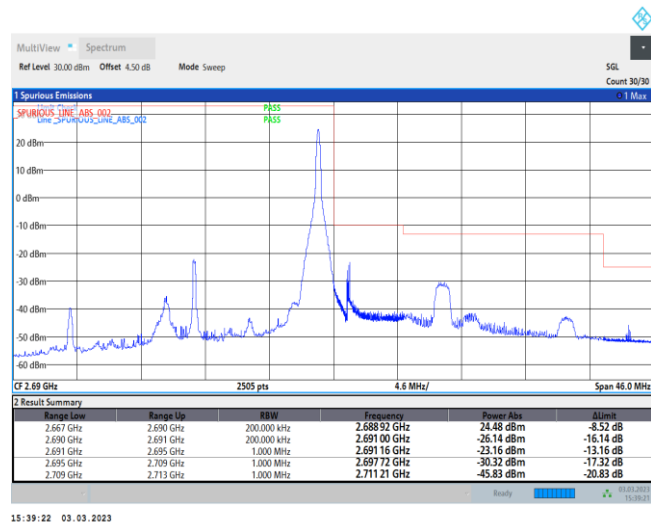
Band41-20MHz-QPSK-39750-1RB#0



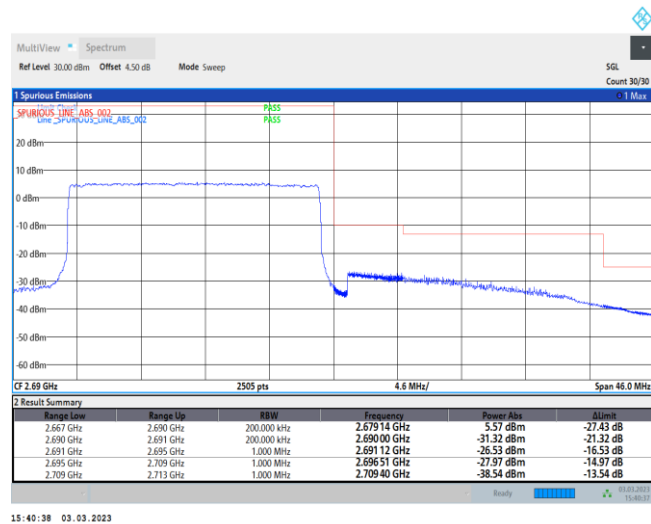
Band41-20MHz-QPSK-39750-100RB#0



Band41-20MHz-QPSK-41490-1RB#99



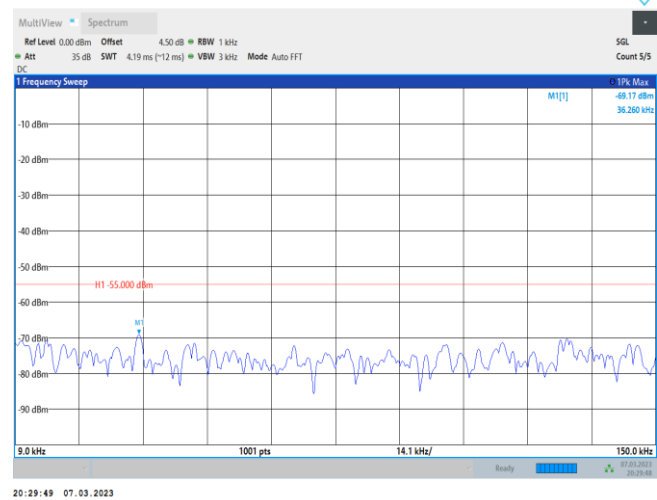
Band41-20MHz-QPSK-41490-100RB#0



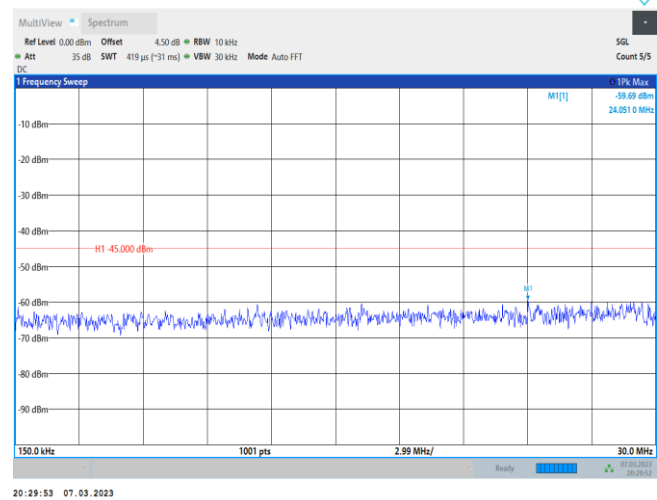
Conducted Spurious Emission

Test Graphs

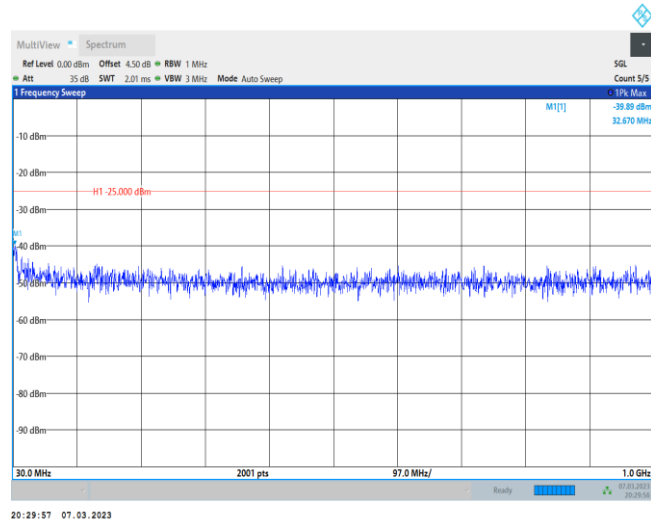
Band41-20MHz-QPSK-39750-1RB#0-Range1:0.009~0.15MHz



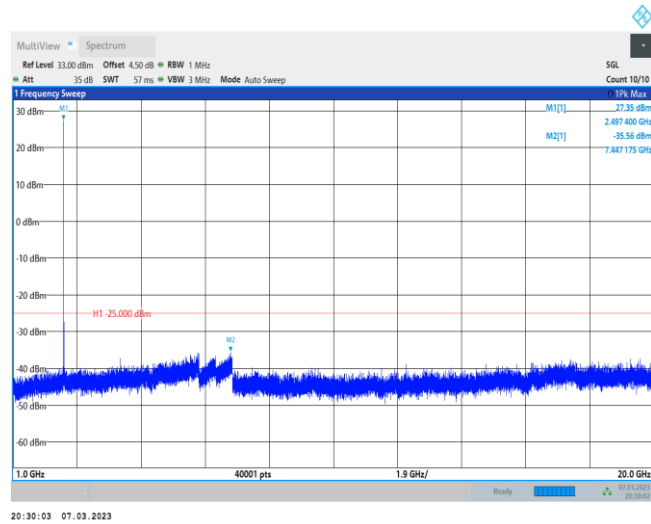
Band41-20MHz-QPSK-39750-1RB#0-Range2:0.15~30MHz



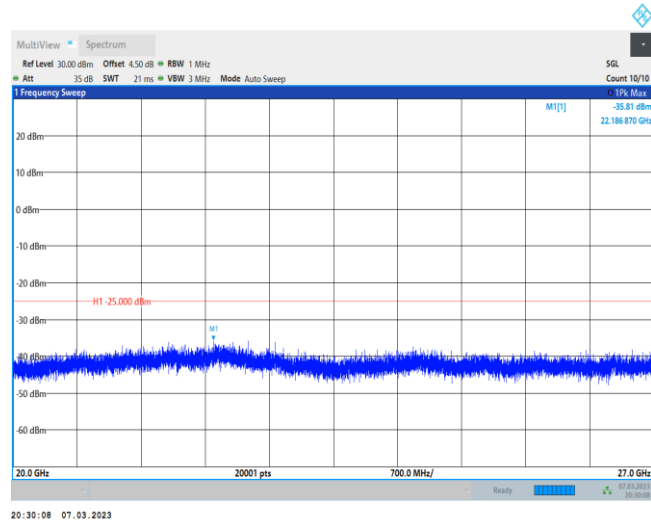
Band41-20MHz-QPSK-39750-1RB#0-Range3:30~1000MHz



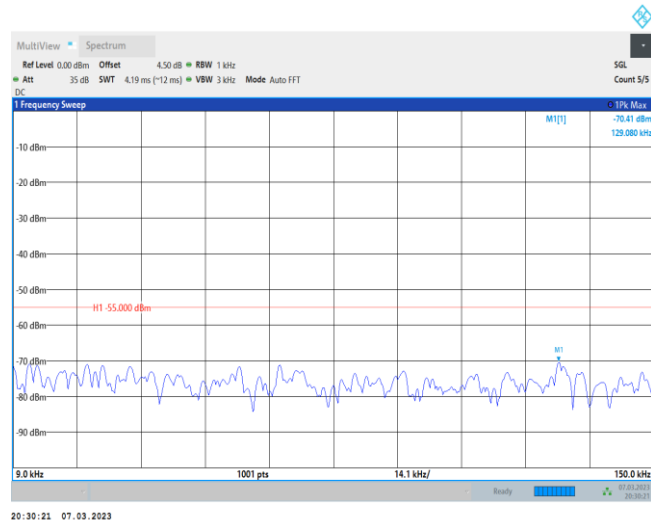
Band41-20MHz-QPSK-39750-1RB#0-Range4:1000~20000MHz



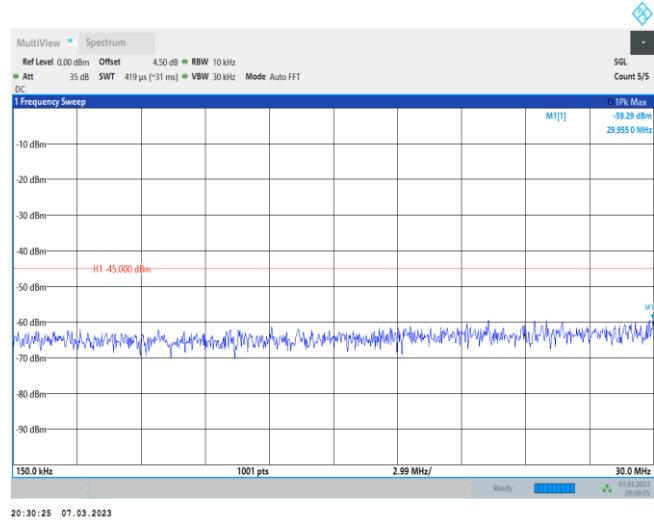
Band41-20MHz-QPSK-39750-1RB#0-Range5:20000~27000MHz



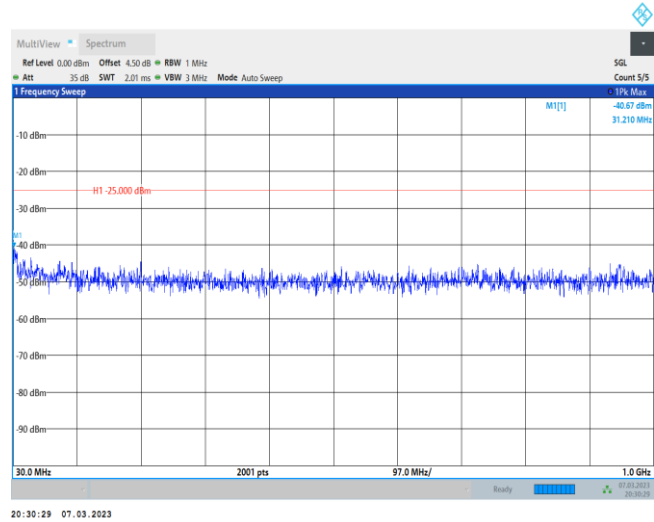
Band41-20MHz-QPSK-40620-1RB#0-Range1:0.009~0.15MHz



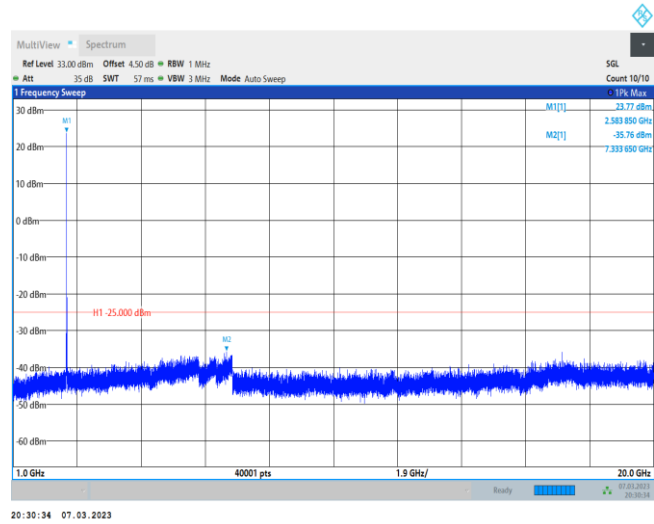
Band41-20MHz-QPSK-40620-1RB#0-Range2:0.15~30MHz



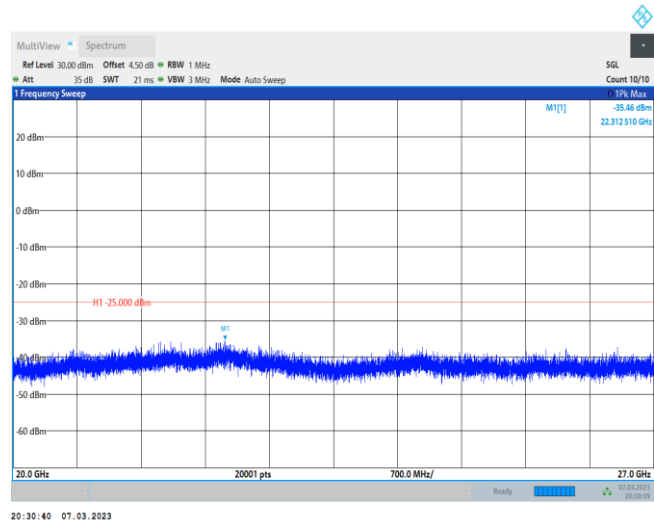
Band41-20MHz-QPSK-40620-1RB#0-Range3:30~1000MHz



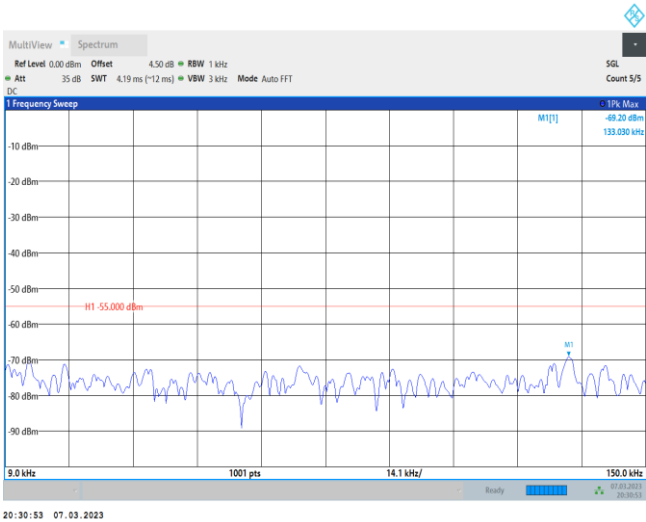
Band41-20MHz-QPSK-40620-1RB#0-Range4:1000~20000MHz



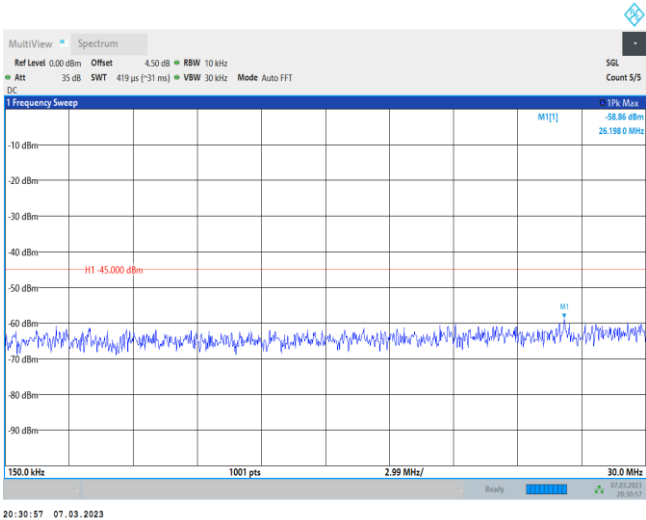
Band41-20MHz-QPSK-40620-1RB#0-Range5:20000~27000MHz



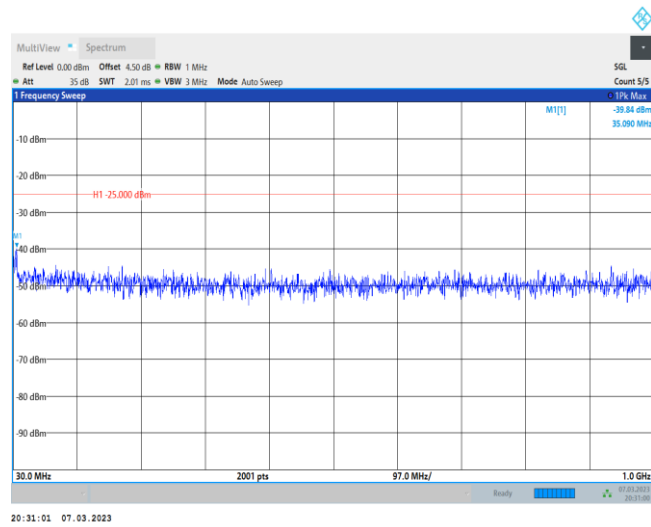
Band41-20MHz-QPSK-41490-1RB#0-Range1:0.009~0.15MHz



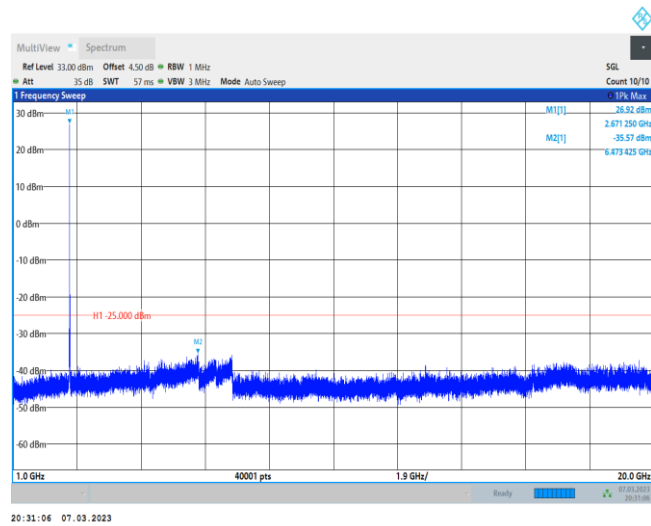
Band41-20MHz-QPSK-41490-1RB#0-Range2:0.15~30MHz



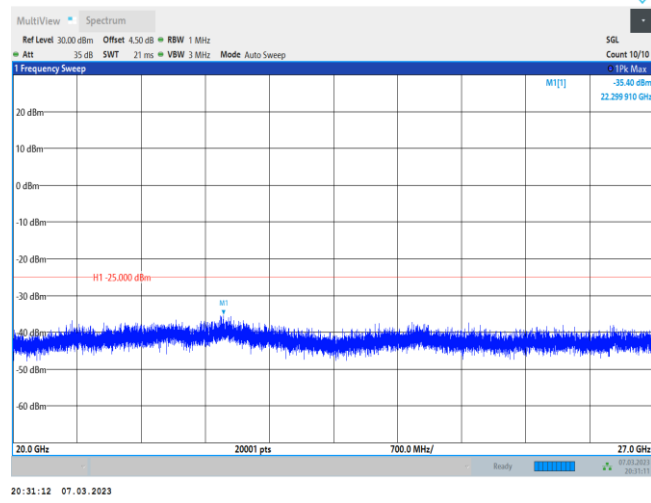
Band41-20MHz-QPSK-41490-1RB#0-Range3:30~1000MHz



Band41-20MHz-QPSK-41490-1RB#0-Range4:1000~20000MHz



Band41-20MHz-QPSK-41490-1RB#0-Range5:20000~27000MHz



Field Strength of Spurious Radiation

Test Band = LTE Band 41_ TM1

Test Channel = Low Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4994.18	41.06	-44.94	32.59	-66.55	-25.00	41.55	241	360	Horizontal
2	7491.27	39.59	-41.63	36.49	-60.81	-25.00	35.81	142	359	Horizontal
3	9988.36	33.58	-37.16	38.50	-60.34	-25.00	35.34	263	208	Horizontal
4	12485.45	31.78	-35.26	39.09	-59.65	-25.00	34.65	225	346	Horizontal
5	14982.54	31.01	-33.99	39.22	-59.02	-25.00	34.02	185	286	Horizontal
6	17479.63	29.20	-31.91	40.52	-57.45	-25.00	32.45	126	20	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	4994.18	40.62	-44.94	32.59	-66.99	-25.00	41.99	254	360	Vertical
2	7491.27	39.11	-41.63	36.49	-61.29	-25.00	36.29	142	163	Vertical
3	9988.36	34.03	-37.16	38.50	-59.89	-25.00	34.89	296	163	Vertical
4	12485.45	32.50	-35.26	39.09	-58.93	-25.00	33.93	365	227	Vertical
5	14982.54	31.59	-33.99	39.22	-58.44	-25.00	33.44	241	184	Vertical
6	17479.63	29.47	-31.91	40.52	-57.18	-25.00	32.18	142	308	Vertical

Test Band = LTE Band 41_ TM1
Test Channel = Mid Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	17825	32.98	-30.87	41.90	-51.25	-25.00	26.25	296	188	Horizontal
2	5168.18	41.59	-44.19	32.60	-65.26	-25.00	40.26	265	294	Horizontal
3	7752.27	38.13	-40.96	37.01	-61.08	-25.00	36.08	241	229	Horizontal
4	10336.36	35.20	-36.70	38.87	-57.89	-25.00	32.89	142	169	Horizontal
5	12920.45	32.58	-34.87	39.52	-58.03	-25.00	33.03	263	229	Horizontal
6	15504.54	31.16	-34.16	38.54	-59.71	-25.00	34.71	228	351	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	17903.5	33.17	-31.07	42.21	-50.95	-25.00	25.95	145	167	Vertical
2	5168.18	43.02	-44.19	32.60	-63.83	-25.00	38.83	265	146	Vertical
3	7752.27	39.04	-40.96	37.01	-60.17	-25.00	35.17	284	294	Vertical
4	10336.36	35.23	-36.70	38.87	-57.86	-25.00	32.86	142	231	Vertical
5	12920.45	32.80	-34.87	39.52	-57.81	-25.00	32.81	263	210	Vertical
6	15504.54	32.03	-34.16	38.54	-58.84	-25.00	33.84	228	358	Vertical

Test Band = LTE Band 41_ TM1

Test Channel = High Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	17952.5	32.68	-31.25	42.41	-51.42	-25.00	26.42	296	273	Horizontal
2	5255.18	41.31	-44.07	32.60	-65.42	-25.00	40.42	241	20	Horizontal
3	7882.77	37.97	-40.65	37.27	-60.68	-25.00	35.68	362	314	Horizontal
4	10510.36	32.28	-36.37	39.06	-60.28	-25.00	35.28	254	62	Horizontal
5	13137.95	31.59	-34.60	39.68	-58.58	-25.00	33.58	175	3	Horizontal
6	15765.54	32.27	-34.12	38.20	-58.91	-25.00	33.91	266	125	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	17935	32.84	-31.19	42.34	-51.27	-25.00	26.27	142	63	Vertical
2	5255.18	41.63	-44.07	32.60	-65.10	-25.00	40.10	265	127	Vertical
3	7882.77	37.85	-40.65	37.27	-60.80	-25.00	35.80	284	3	Vertical
4	10510.36	32.74	-36.37	39.06	-59.82	-25.00	34.82	174	318	Vertical
5	13137.95	31.32	-34.60	39.68	-58.85	-25.00	33.85	145	127	Vertical
6	15765.54	31.61	-34.12	38.20	-59.57	-25.00	34.57	296	127	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

Test on the worst case:

Test Band = LTE Band41_ TM1

Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3956	44.38	-46.15	29.33	-67.70	-25.00	42.70	Horizontal
2	4863.5	43.53	-45.53	31.18	-66.08	-25.00	41.08	Horizontal
3	6107	43.51	-44.47	32.76	-63.46	-25.00	38.46	Horizontal
4	7181.5	42.67	-43.57	35.51	-60.65	-25.00	35.65	Horizontal
5	9423	40.19	-39.92	37.35	-57.65	-25.00	32.65	Horizontal
6	12748.5	35.46	-36.75	39.32	-57.23	-25.00	32.23	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4322.5	44.52	-45.60	30.17	-66.17	-25.00	41.17	Vertical
2	5594	43.80	-45.08	32.32	-64.22	-25.00	39.22	Vertical
3	6942	42.79	-43.87	34.90	-61.44	-25.00	36.44	Vertical
4	8548	41.94	-41.48	36.77	-58.03	-25.00	33.03	Vertical
5	10721	37.12	-38.03	38.57	-57.60	-25.00	32.60	Vertical
6	12462	36.14	-37.18	39.24	-57.06	-25.00	32.06	Vertical

Test Band = LTE Band41_ TM1
Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4365	44.85	-45.72	30.28	-65.86	-25.00	40.86	Horizontal
2	5874	44.36	-44.91	32.37	-63.44	-25.00	38.44	Horizontal
3	6973.5	42.98	-43.70	34.95	-61.02	-25.00	36.02	Horizontal
4	8888.5	41.55	-41.24	36.57	-58.38	-25.00	33.38	Horizontal
5	11196.5	36.65	-37.41	38.70	-57.32	-25.00	32.32	Horizontal
6	12090.5	36.85	-37.37	39.13	-56.65	-25.00	31.65	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4137	43.77	-45.76	29.73	-67.52	-25.00	42.52	Vertical
2	5033	43.74	-45.55	31.46	-65.61	-25.00	40.61	Vertical
3	6482.5	43.66	-44.58	34.04	-62.13	-25.00	37.13	Vertical
4	8146.5	41.30	-41.81	37.01	-58.75	-25.00	33.75	Vertical
5	10348	37.70	-39.05	38.53	-58.08	-25.00	33.08	Vertical
6	12523.5	35.89	-37.11	39.26	-57.22	-25.00	32.22	Vertical

Test Band = LTE Band41_ TM1
Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3956	45.36	-46.15	29.33	-66.72	-25.00	41.72	Horizontal
2	5263.5	44.90	-45.16	31.87	-63.65	-25.00	38.65	Horizontal
3	6787.5	43.79	-44.13	34.62	-60.98	-25.00	35.98	Horizontal
4	8371.5	41.71	-41.61	36.88	-58.28	-25.00	33.28	Horizontal
5	11193	36.61	-37.43	38.70	-57.38	-25.00	32.38	Horizontal
6	12747	36.26	-36.75	39.32	-56.43	-25.00	31.43	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4601.5	44.44	-45.67	30.76	-65.73	-25.00	40.73	Vertical
2	5867	44.17	-44.90	32.37	-63.61	-25.00	38.61	Vertical
3	7214.5	43.01	-43.47	35.60	-60.12	-25.00	35.12	Vertical
4	9271.5	39.36	-40.23	37.04	-59.09	-25.00	34.09	Vertical
5	11489.5	36.16	-37.32	38.84	-57.57	-25.00	32.57	Vertical
6	13512.5	36.13	-36.90	40.12	-55.92	-25.00	30.92	Vertical

Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band41	20MHz	QPSK	40620	100RB#0	VL	NT	0.50	0.000193	PASS
Band41	20MHz	QPSK	40620	100RB#0	VN	NT	-8.00	-0.003085	PASS
Band41	20MHz	QPSK	40620	100RB#0	VH	NT	-11.10	-0.004281	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band41	20MHz	QPSK	40620	100RB#0	NV	-30	-2.80	-0.001080	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-20	-3.20	-0.001234	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-10	-9.30	-0.003587	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	0	-10.70	-0.004126	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	10	-11.00	-0.004242	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	20	-11.60	-0.004474	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	30	-6.20	-0.002391	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	40	0.00	0.000000	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	50	-3.80	-0.001465	PASS

---End of Attachment---