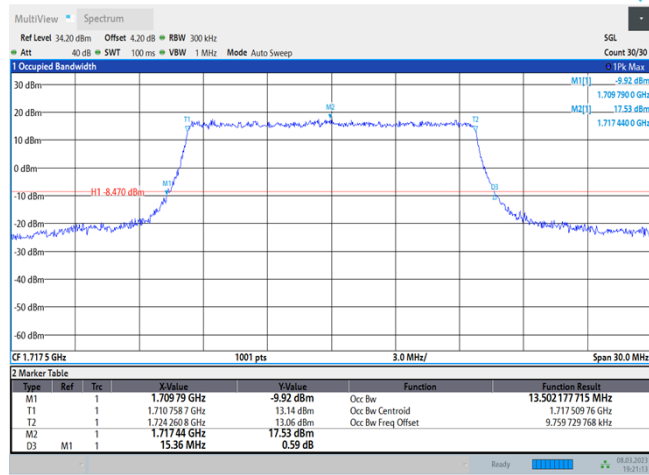
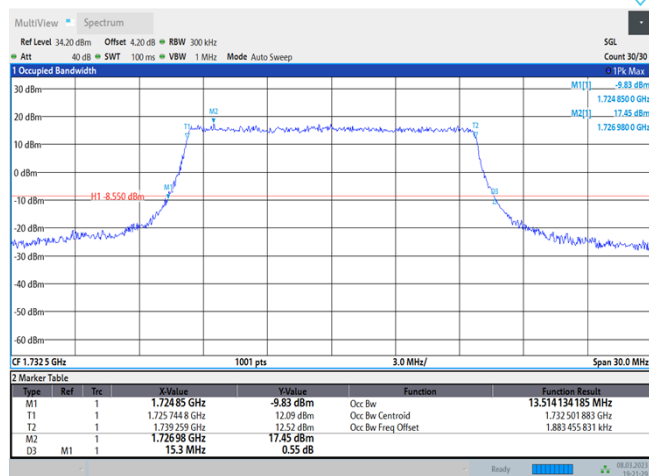


Band4-15MHz-QPSK-20025-75RB#0



19:21:13 08.03.2023

Band4-15MHz-QPSK-20175-75RB#0



19:21:30 08.03.2023



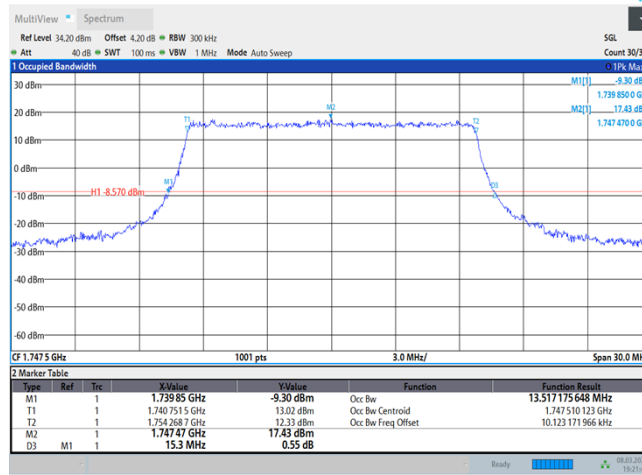
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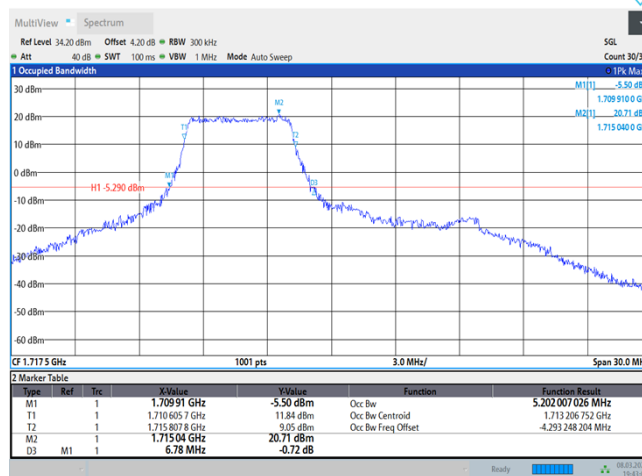
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Band4-15MHz-QPSK-20325-75RB#0



19:21:46 08.03.2023

Band4-15MHz-16QAM-20025-27RB#0



19:43:07 08.03.2023



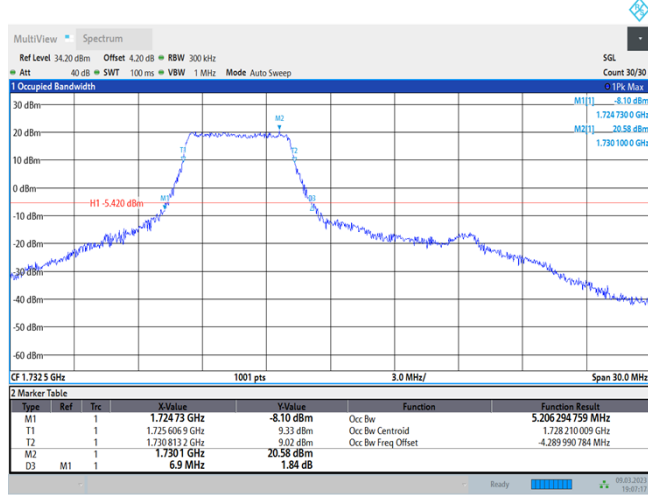
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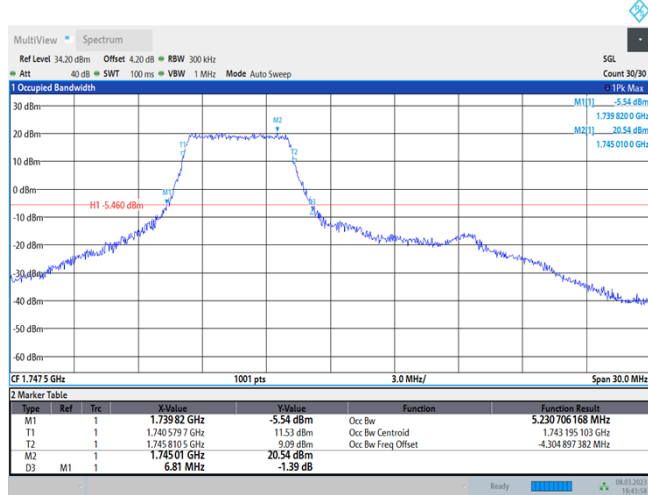
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Band4-15MHz-16QAM-20175-27RB#0



19:07:17 09.03.2023

Band4-15MHz-16QAM-20325-27RB#0



19:43:59 08.03.2023



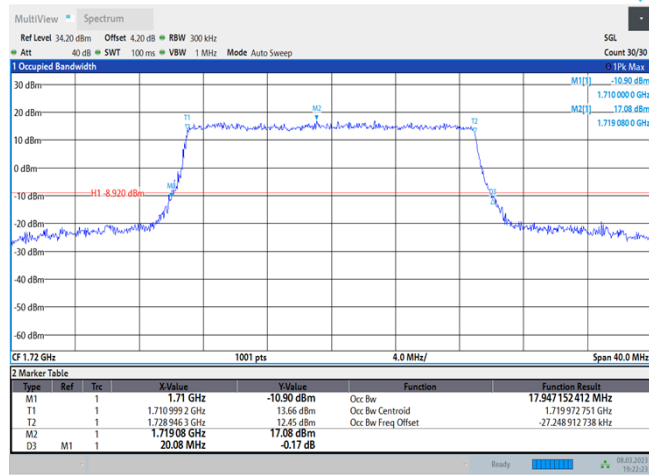
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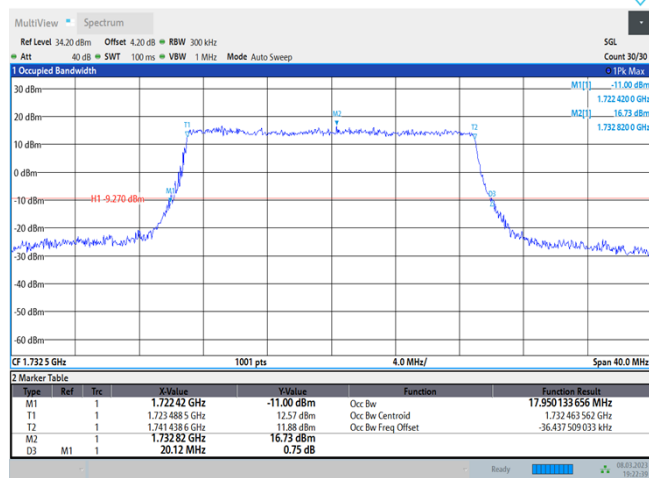
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Band4-20MHz-QPSK-20050-100RB#0



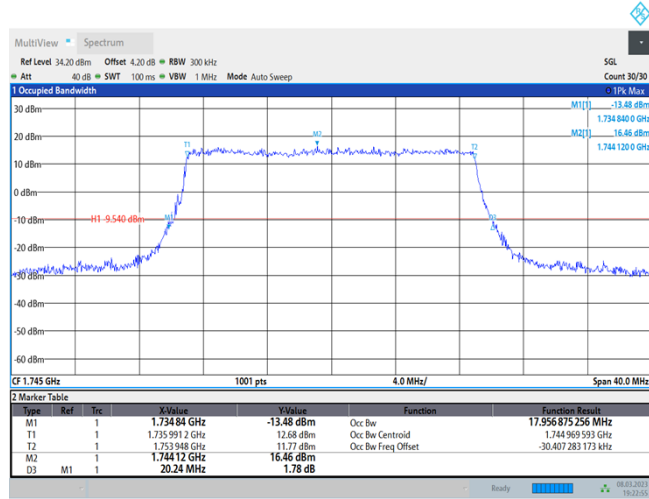
Band4-20MHz-QPSK-20175-100RB#0



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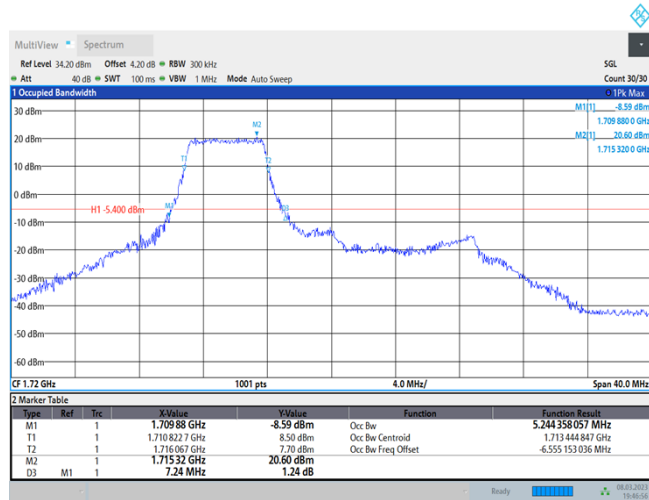
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Band4-20MHz-QPSK-20300-100RB#0



19:22:56 08.03.2023

Band4-20MHz-16QAM-20050-27RB#0



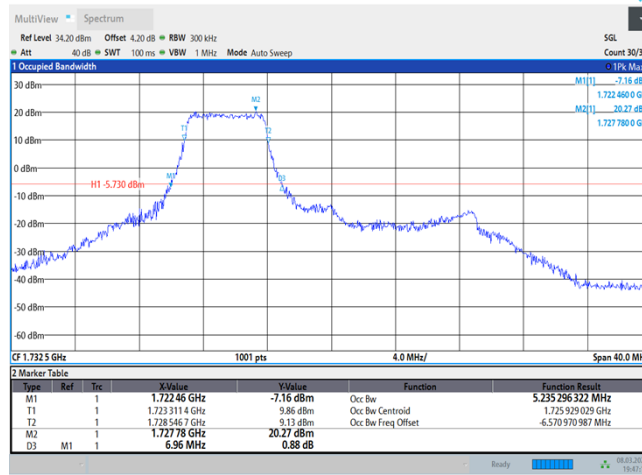
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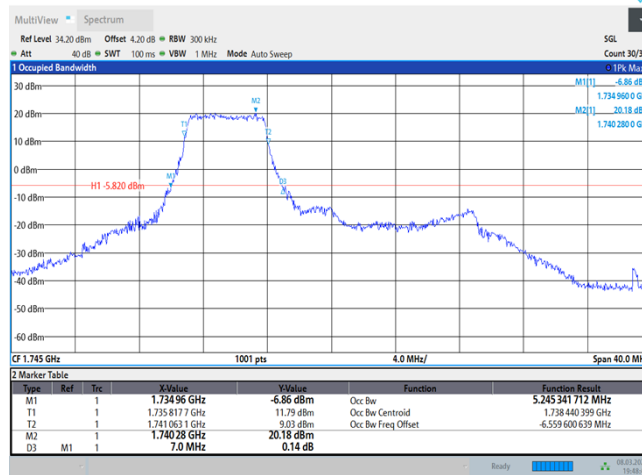
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Band4-20MHz-16QAM-20175-27RB#0



19:47:14 08.03.2023

Band4-20MHz-16QAM-20300-27RB#0



19:48:48 08.03.2023



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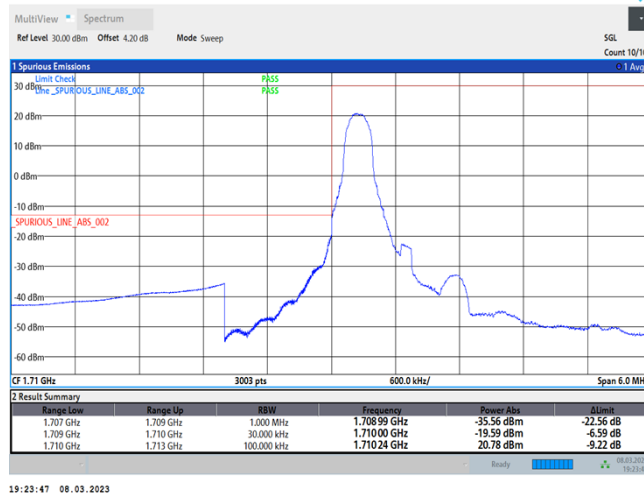
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## Band Edge

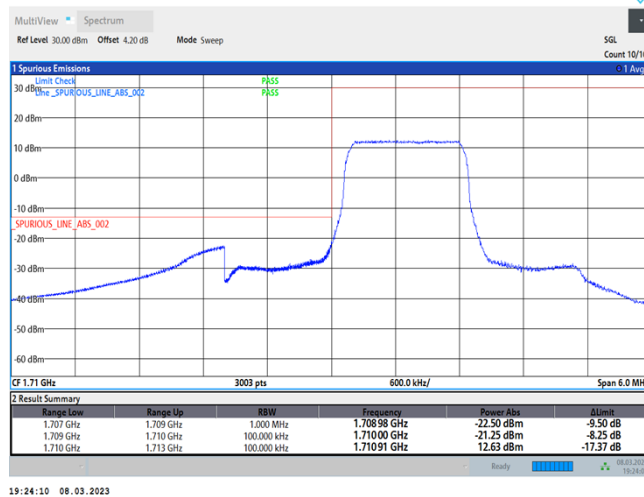
## Test Graphs

Band4-1.4MHz-QPSK-19957-1RB#0



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Band4-1.4MHz-QPSK-19957-6RB#0



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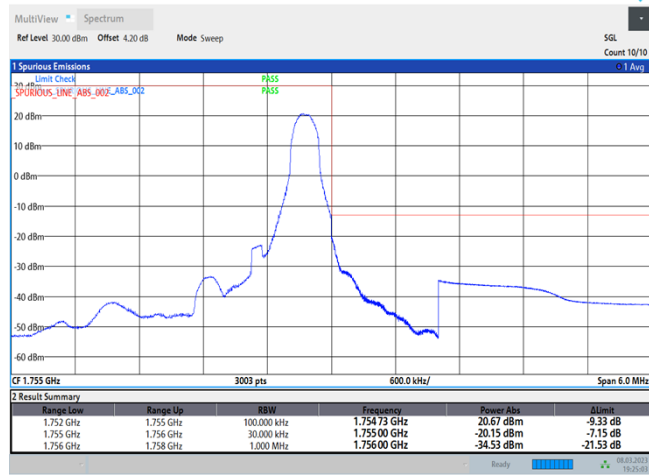
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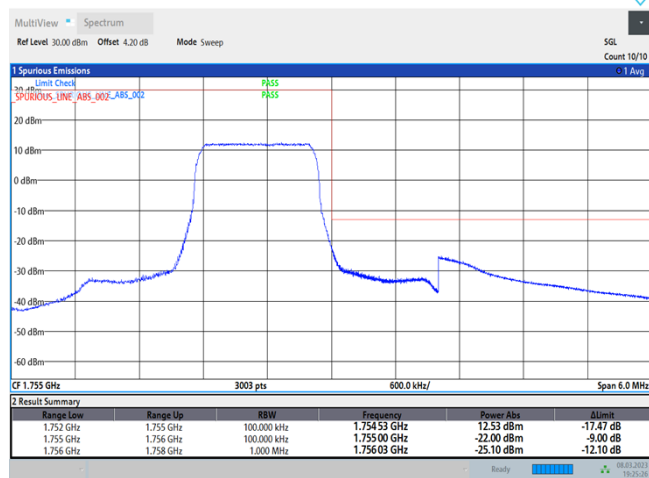
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Band4-1.4MHz-QPSK-20393-1RB#5



19:25:04 08.03.2023

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19:25:26 08.03.2023

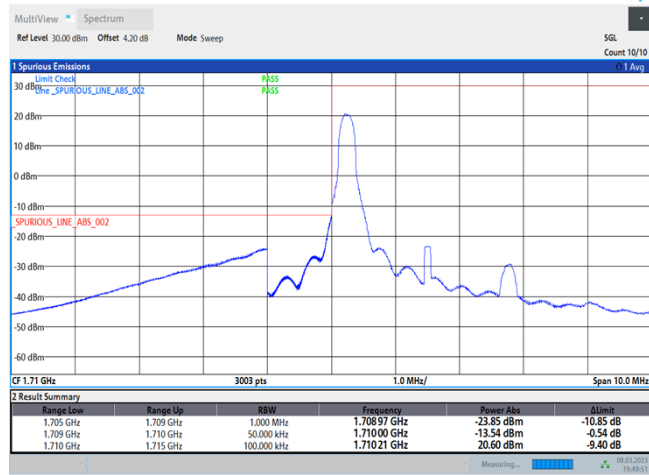


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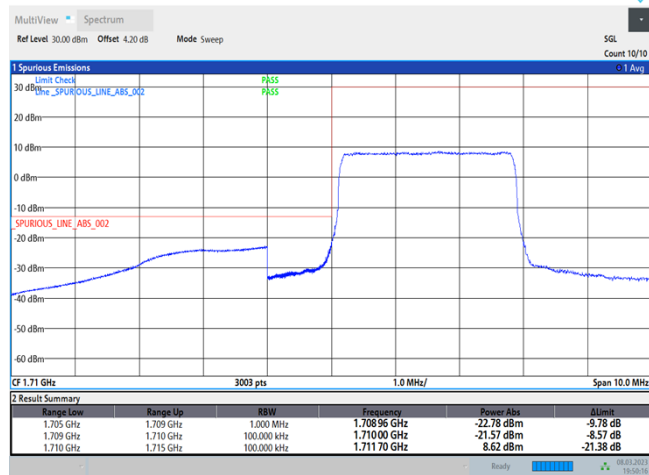


Band4-3MHz-QPSK-19965-1RB#0



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19:50:17 08.03.2023

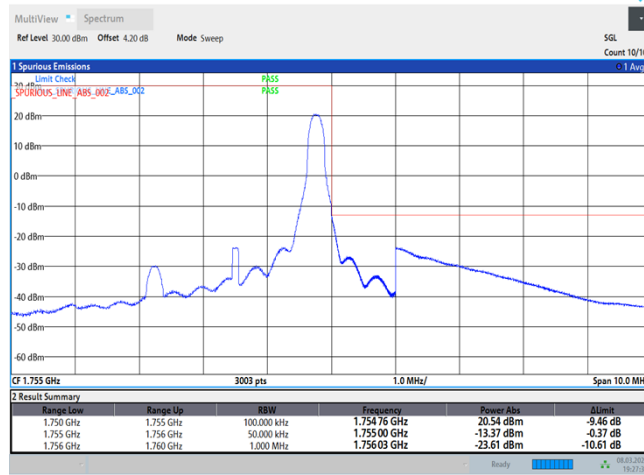


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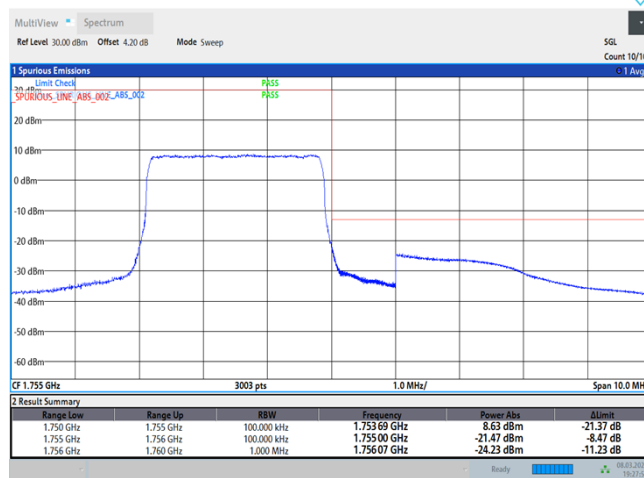
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Band4-3MHz-QPSK-20385-1RB#14



19:27:33 08.03.2023

Band4-3MHz-QPSK-20385-15RB#0



19:27:56 08.03.2023

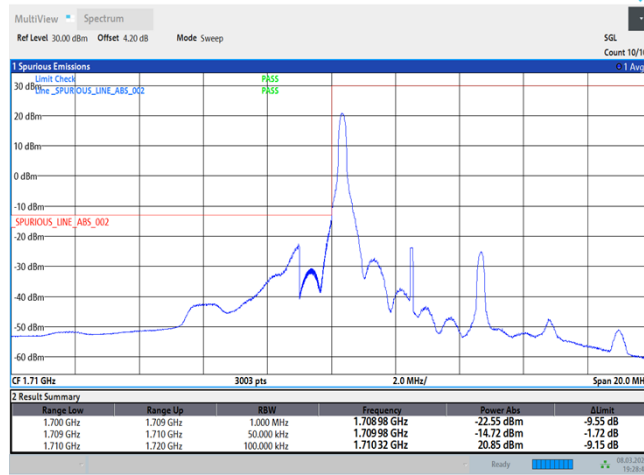


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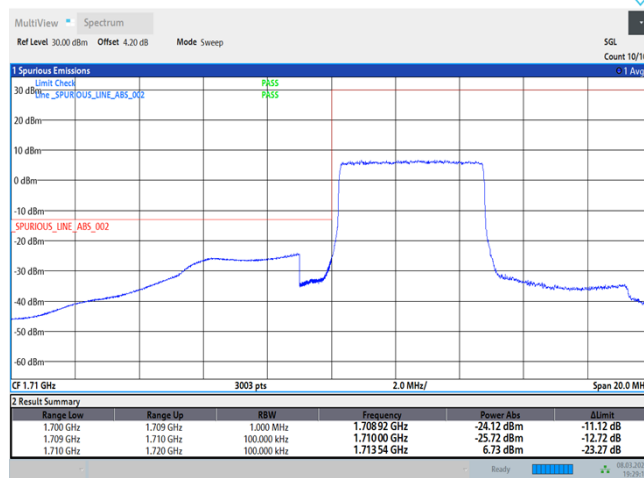
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Band4-5MHz-QPSK-19975-1RB#0



19:28:49 08.03.2023

Band4-5MHz-QPSK-19975-25RB#0



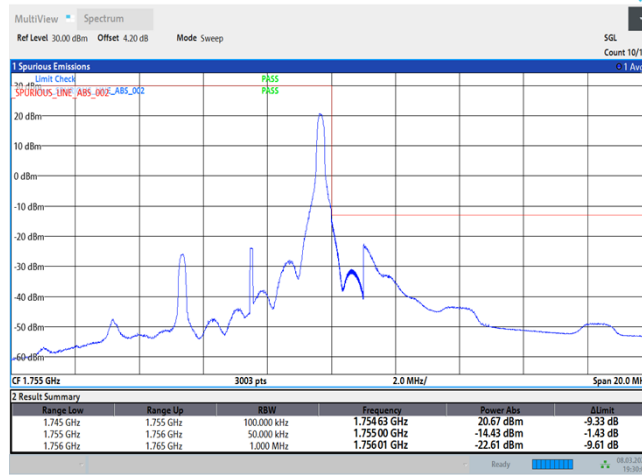
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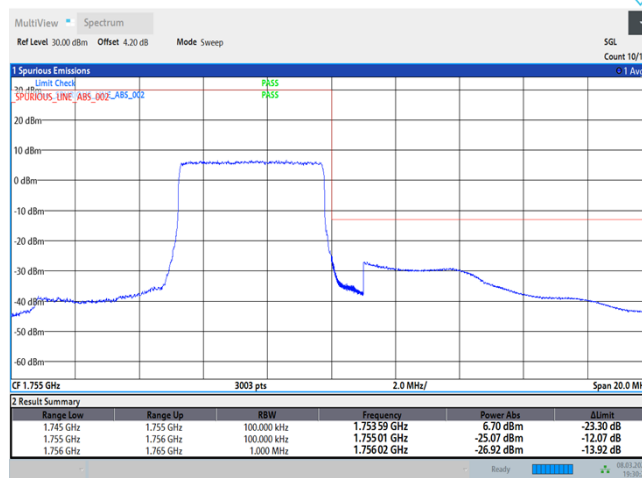
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Band4-5MHz-QPSK-20375-1RB#24



19:30:06 08.03.2023

Band4-5MHz-QPSK-20375-25RB#0



19:30:29 08.03.2023



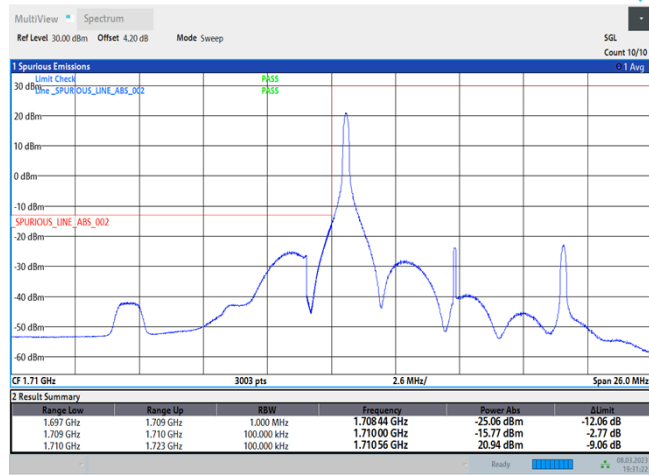
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Band4-10MHz-QPSK-20000-1RB#0



19:31:23 08.03.2023

Band4-10MHz-QPSK-20000-50RB#0



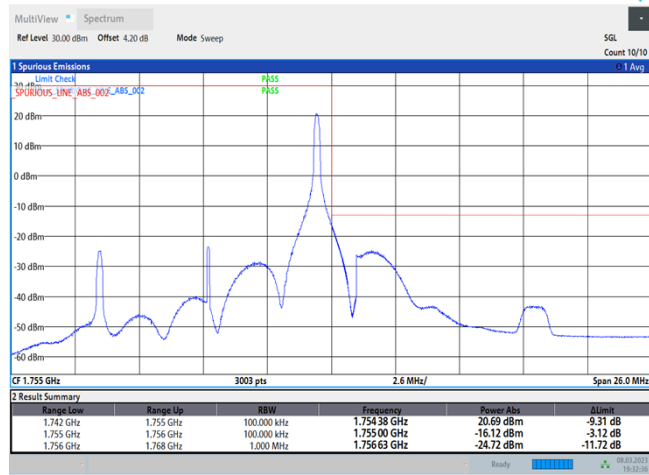
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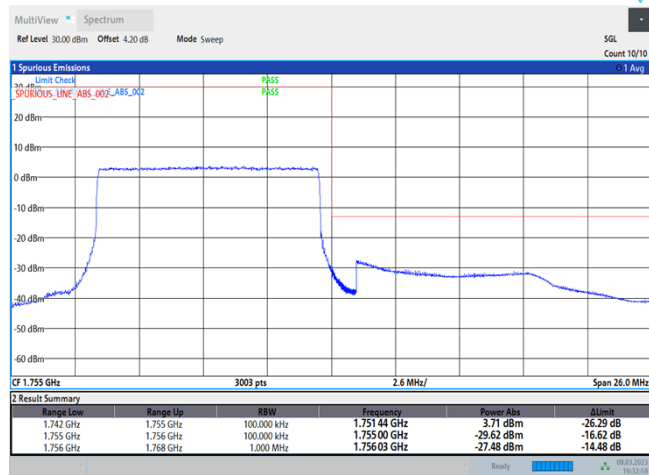
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Band4-10MHz-QPSK-20350-1RB#49



19:32:37 08.03.2023

Band4-10MHz-QPSK-20350-50RB#0



19:33:00 08.03.2023



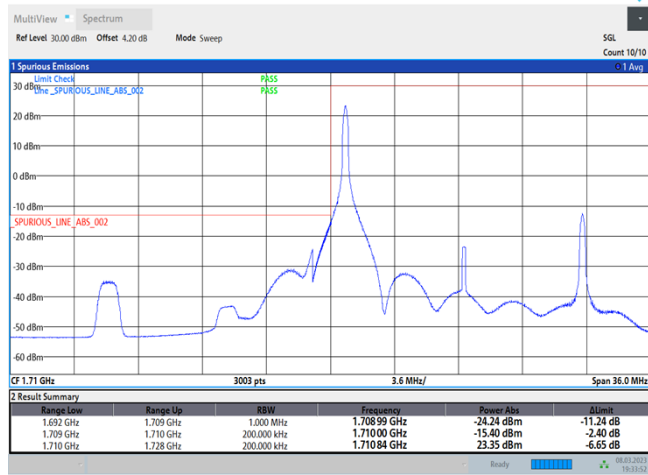
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Band4-15MHz-QPSK-20025-1RB#0



19:33:52 08.03.2023

Band4-15MHz-QPSK-20025-75RB#0



19:34:15 08.03.2023

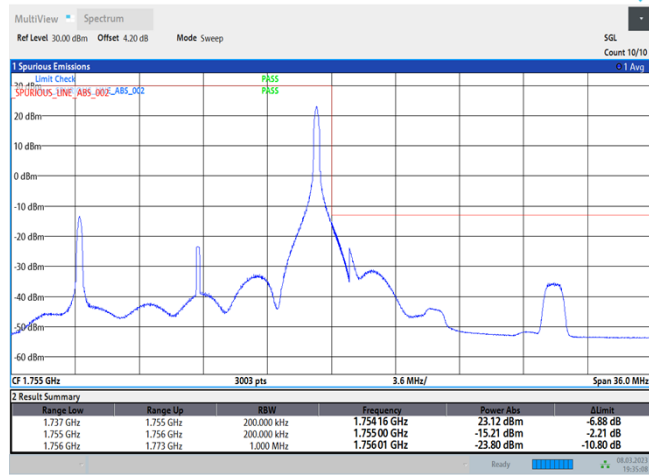


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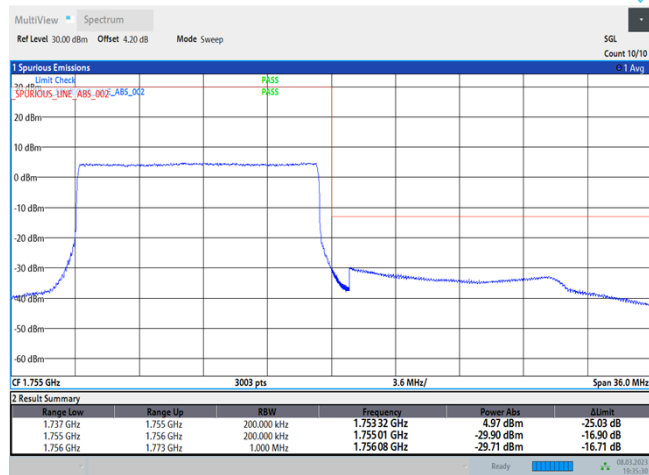
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Band4-15MHz-QPSK-20325-1RB#74



19:35:08 08.03.2023

Band4-15MHz-QPSK-20325-75RB#0



19:35:31 08.03.2023



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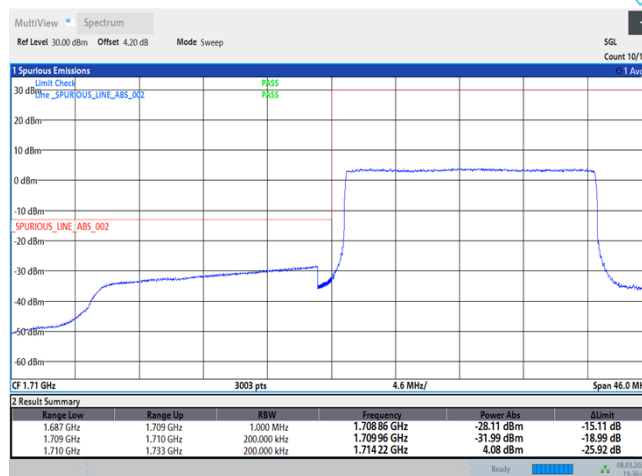
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Band4-20MHz-QPSK-20050-1RB#0



19:36:23 08.03.2023

Band4-20MHz-QPSK-20050-100RB#0



19:36:46 08.03.2023

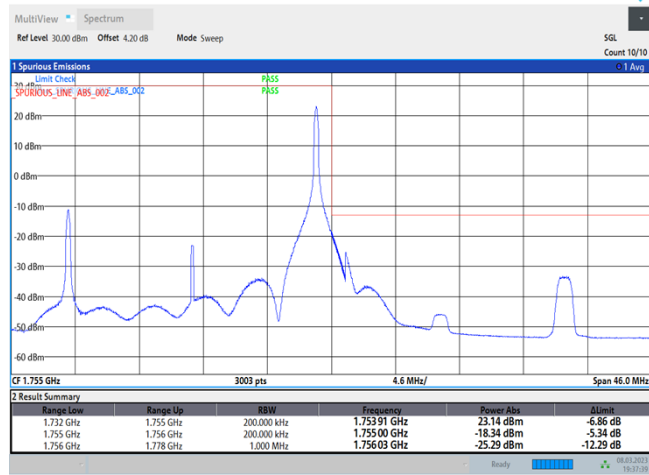


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Band4-20MHz-QPSK-20300-1RB#99



19:37:39 08.03.2023

Band4-20MHz-QPSK-20300-100RB#0



19:38:02 08.03.2023



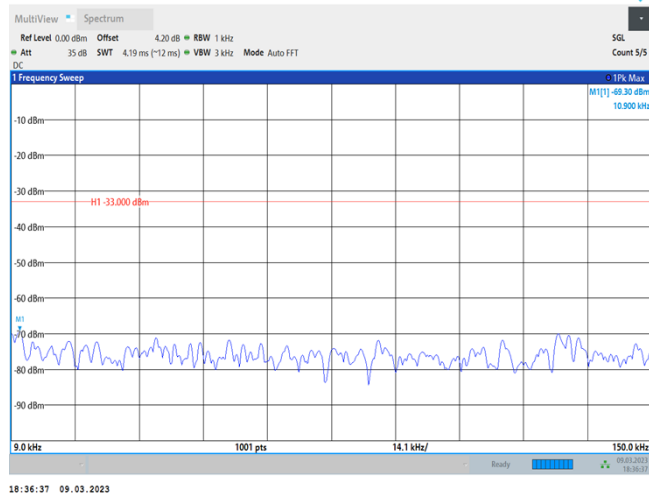
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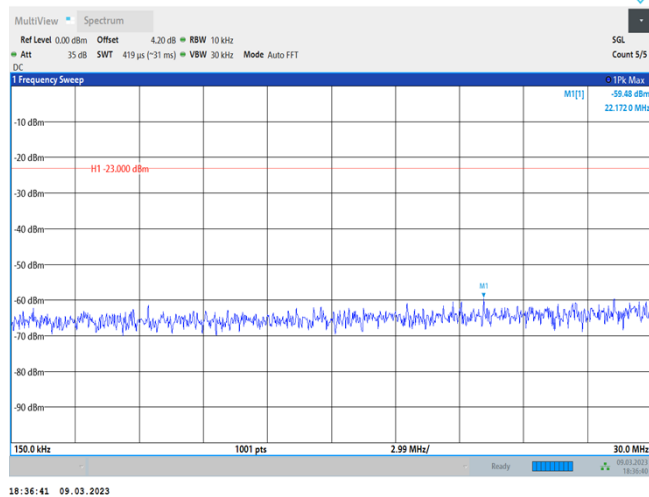
## Conducted Spurious Emission

### Test Graphs

Band4-20MHz-QPSK-20050-1RB#0-Range1:0.009~0.15MHz



Band4-20MHz-QPSK-20050-1RB#0-Range2:0.15~30MHz

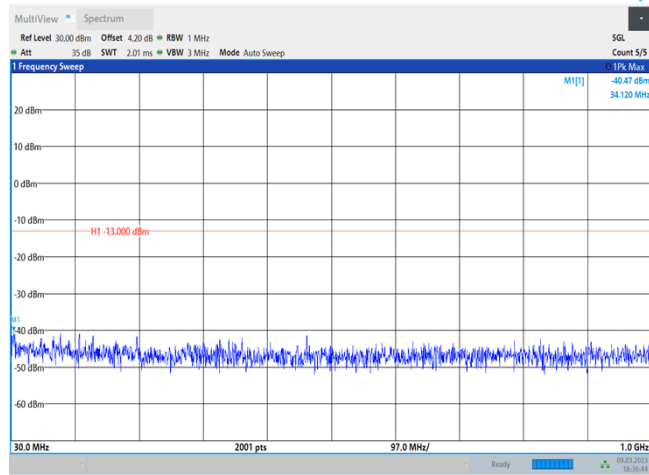


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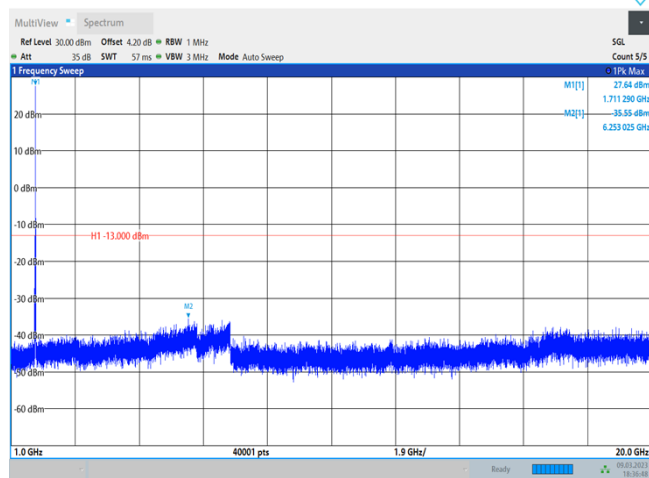
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Band4-20MHz-QPSK-20050-1RB#0-Range3:30~1000MHz



Band4-20MHz-QPSK-20050-1RB#0-Range4:1000~20000MHz

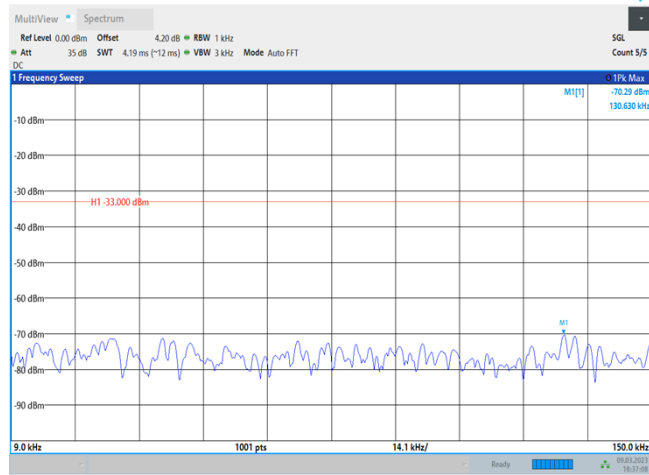


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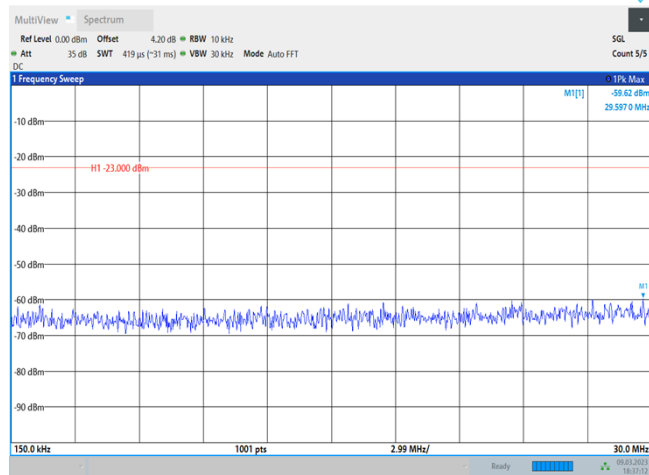


Band4-20MHz-QPSK-20175-1RB#0-Range1:0.009~0.15MHz



18:37:09 09.03.2023

Band4-20MHz-QPSK-20175-1RB#0-Range2:0.15~30MHz



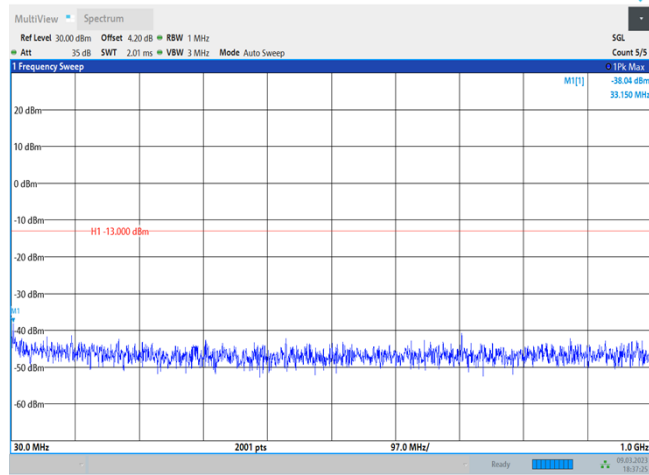
18:37:13 09.03.2023



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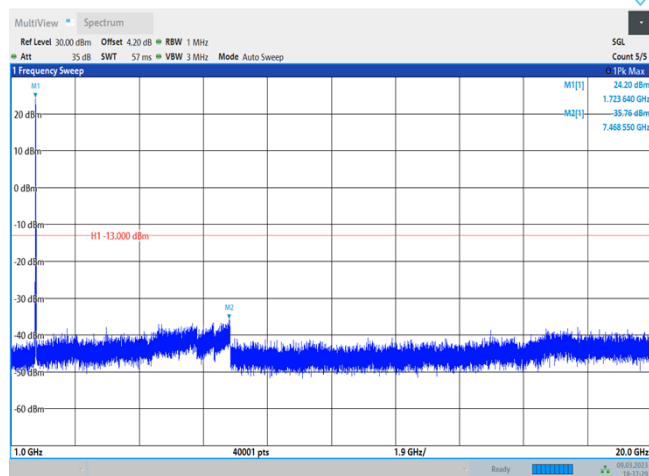
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Band4-20MHz-QPSK-20175-1RB#0-Range3:30~1000MHz



18:37:25 09.03.2023

Band4-20MHz-QPSK-20175-1RB#0-Range4:1000~20000MHz



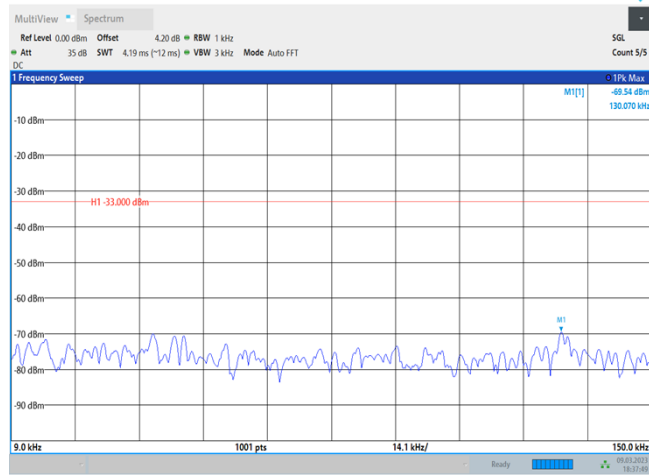
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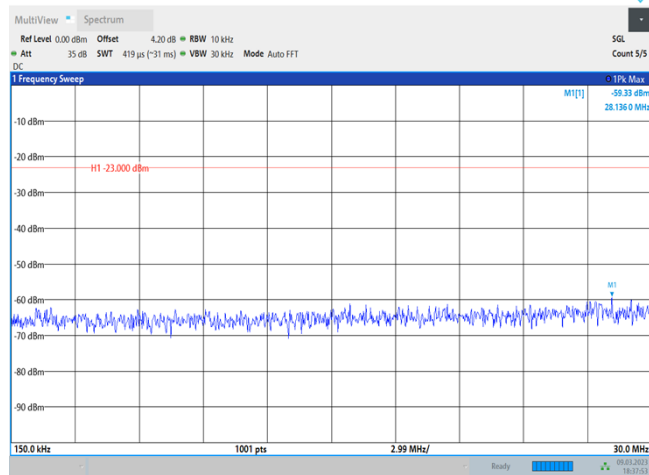
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Band4-20MHz-QPSK-20300-1RB#0-Range1:0.009~0.15MHz



18:37:49 09.03.2023

Band4-20MHz-QPSK-20300-1RB#0-Range2:0.15~30MHz



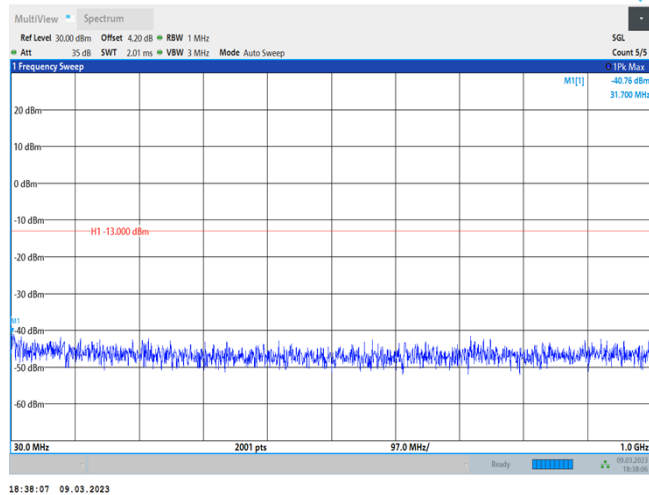
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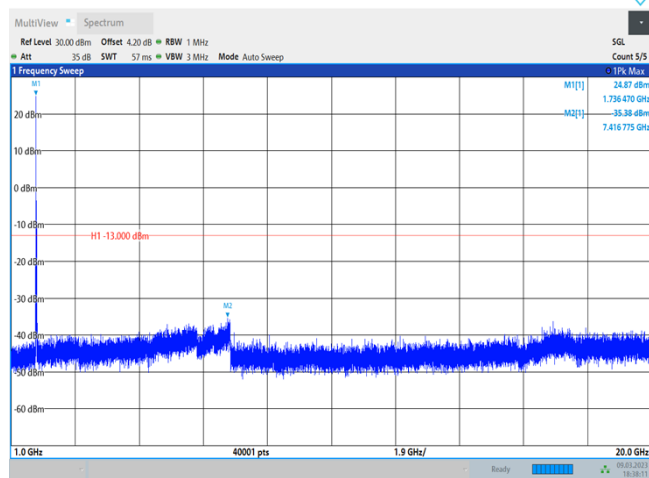
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Band4-20MHz-QPSK-20300-1RB#0-Range3:30~1000MHz



18:38:07 09.03.2023

Band4-20MHz-QPSK-20300-1RB#0-Range4:1000~20000MHz



18:38:11 09.03.2023



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## Field Strength of Spurious Radiation

Test Band = LTE Band 4\_QPSK\_15MHz\_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	3422.18	65.46	-45.88	29.43	-46.25	-13.00	33.25	191	326	Horizontal
2	5133.27	41.02	-44.24	32.60	-65.88	-13.00	52.88	231	360	Horizontal
3	6844.36	39.36	-42.50	35.89	-62.51	-13.00	49.51	154	342	Horizontal
4	8555.45	36.49	-39.68	38.11	-60.34	-13.00	47.34	159	352	Horizontal
5	10266.54	34.10	-36.74	38.79	-59.10	-13.00	46.10	228	360	Horizontal
6	11977.63	31.87	-35.32	38.62	-60.08	-13.00	47.08	183	114	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	3422.18	58.21	-45.88	29.43	-53.50	-13.00	40.50	295	279	Vertical
2	5133.27	42.33	-44.24	32.60	-64.57	-13.00	51.57	264	352	Vertical
3	6844.36	40.37	-42.50	35.89	-61.50	-13.00	48.50	179	342	Vertical
4	8555.45	36.38	-39.68	38.11	-60.45	-13.00	47.45	168	181	Vertical
5	10266.54	32.84	-36.74	38.79	-60.36	-13.00	47.36	244	360	Vertical
6	11977.63	31.78	-35.32	38.62	-60.17	-13.00	47.17	159	32	Vertical



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Test Band = LTE Band 4\_QPSK\_15MHz\_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	3447	63.73	-45.82	29.42	-47.93	-13.00	34.93	176	265	Horizontal
2	5170.77	41.28	-44.19	32.60	-65.57	-13.00	52.57	214	149	Horizontal
3	6894.36	39.67	-42.44	35.99	-62.04	-13.00	49.04	239	360	Horizontal
4	8617.95	35.90	-39.74	38.18	-60.92	-13.00	47.92	158	82	Horizontal
5	10341.54	34.68	-36.68	38.88	-58.38	-13.00	45.38	192	149	Horizontal
6	12065.13	32.93	-35.25	38.67	-58.92	-13.00	45.92	223	360	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	3447	56.21	-45.82	29.42	-55.45	-13.00	42.45	286	265	Vertical
2	5170.77	41.53	-44.19	32.60	-65.32	-13.00	52.32	194	215	Vertical
3	6894.36	39.42	-42.44	35.99	-62.29	-13.00	49.29	281	360	Vertical
4	8617.95	36.82	-39.74	38.18	-60.00	-13.00	47.00	264	353	Vertical
5	10341.54	34.48	-36.68	38.88	-58.58	-13.00	45.58	175	360	Vertical
6	12065.13	32.40	-35.25	38.67	-59.45	-13.00	46.45	229	48	Vertical



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**Test Band = LTE Band 4\_QPSK\_15MHz\_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	3472.18	63.80	-45.76	29.41	-47.81	-13.00	34.81	214	327	Horizontal
2	5208.27	41.00	-44.14	32.60	-65.80	-13.00	52.80	285	47	Horizontal
3	6944.36	39.36	-42.50	36.09	-62.31	-13.00	49.31	194	163	Horizontal
4	8680.45	36.20	-39.46	38.25	-60.27	-13.00	47.27	268	32	Horizontal
5	10416.54	31.05	-36.46	38.96	-61.71	-13.00	48.71	251	81	Horizontal
6	12152.63	31.25	-35.22	38.75	-60.48	-13.00	47.48	153	32	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	3472.18	56.04	-45.76	29.41	-55.57	-13.00	42.57	136	280	Vertical
2	5208.27	41.29	-44.14	32.60	-65.51	-13.00	52.51	213	331	Vertical
3	6944.36	39.55	-42.50	36.09	-62.12	-13.00	49.12	294	264	Vertical
4	8680.45	37.12	-39.46	38.25	-59.35	-13.00	46.35	185	360	Vertical
5	10416.54	31.21	-36.46	38.96	-61.55	-13.00	48.55	221	31	Vertical
6	12152.63	31.39	-35.22	38.75	-60.34	-13.00	47.34	162	360	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor &amp; AMP. The basic equation with a sample calculation is as follows:

 $AF = \text{Antenna Factor (dB/m)}$ 
 $\text{Factor} = \text{Cable Factor (dB)} - \text{Preamplifier (dB)}$ 
 $\text{Level} = \text{Reading Level} + AF + \text{Factor} - 95.26$ 
 $\text{Margin} = \text{Limit} - \text{Level}$ 


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## Frequency Stability

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band4	20MHz	QPSK	20175	100RB#0	VL	NT	-4.70	-0.002713	PASS
Band4	20MHz	QPSK	20175	100RB#0	VN	NT	-3.80	-0.002193	PASS
Band4	20MHz	QPSK	20175	100RB#0	VH	NT	-4.60	-0.002655	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band4	20MHz	QPSK	20175	100RB#0	NV	-30	-4.40	-0.002540	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-20	-2.40	-0.001385	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-10	-5.20	-0.003001	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	0	-5.40	-0.003117	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	10	-2.20	-0.001270	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	20	-0.50	-0.000289	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	30	-3.20	-0.001847	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	40	-1.40	-0.000808	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	50	-1.30	-0.000750	PASS

---End of Attachment---



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