

2-2-20MHz-15MHz-16QAM-16QAM-18826-18997-100RB#0-75RB#0



20:46:48 03.10.2022

2-2-20MHz-15MHz-16QAM-16QAM-18951-19122-100RB#0-75RB#0



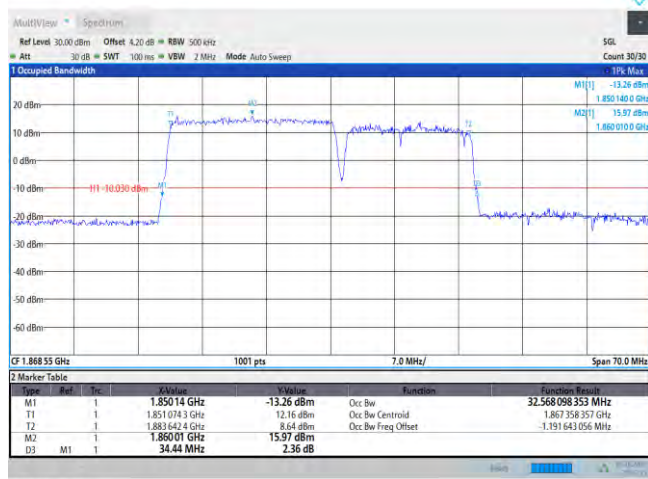
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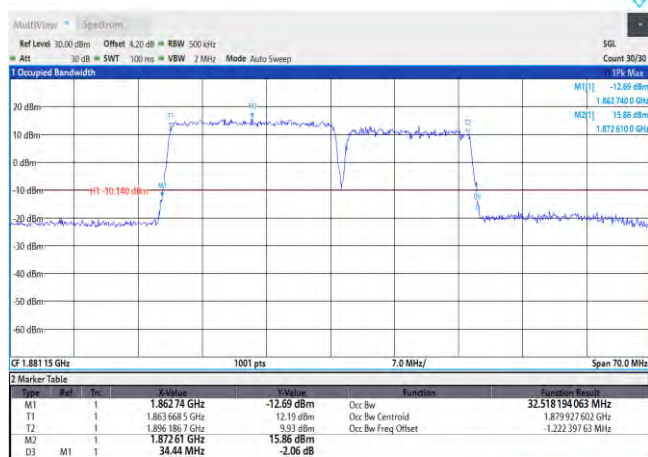
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2-2-20MHz-15MHz-64QAM-64QAM-18700-18871-100RB#0-75RB#0



20:45:13 03.10.2022

2-2-20MHz-15MHz-64QAM-64QAM-18826-18997-100RB#0-75RB#0



20:47:20 03.10.2022



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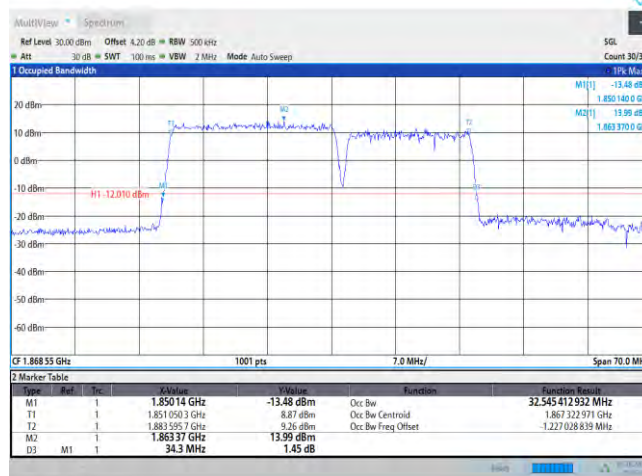
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2-2-20MHz-15MHz-64QAM-64QAM-18951-19122-100RB#0-75RB#0



20:49:26 03.10.2022

2-2-20MHz-15MHz-256QAM-256QAM-18700-18871-100RB#0-75RB#0



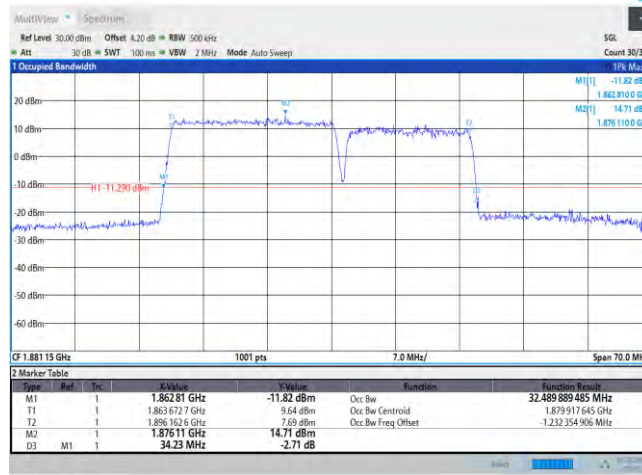
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2-2-20MHz-15MHz-256QAM-256QAM-18826-18997-100RB#0-75RB#0



20:47:51 03.10.2022

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2-2-20MHz-20MHz-QPSK-QPSK-18700-18898-100RB#0-100RB#0



20:57:07 03.10.2022

2-2-20MHz-20MHz-QPSK-QPSK-18801-18999-100RB#0-100RB#0



20:59:15 03.10.2022



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2-2-20MHz-20MHz-QPSK-QPSK-18902-19100-100RB#0-100RB#0



21:01:21 03.10.2022

2-2-20MHz-20MHz-16QAM-16QAM-18700-18898-100RB#0-100RB#0



20:57:39 03.10.2022



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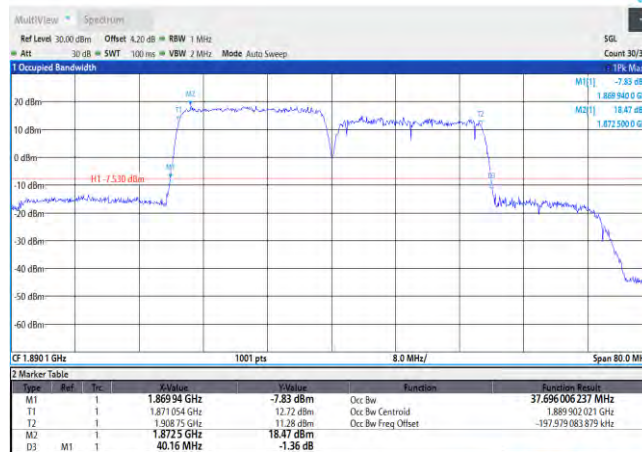
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20:59:46 03.10.2022

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21:01:53 03.10.2022



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2-2-20MHz-20MHz-64QAM-64QAM-18700-18898-100RB#0-100RB#0



20:58:11 03.10.2022

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21:00:18 03.10.2022



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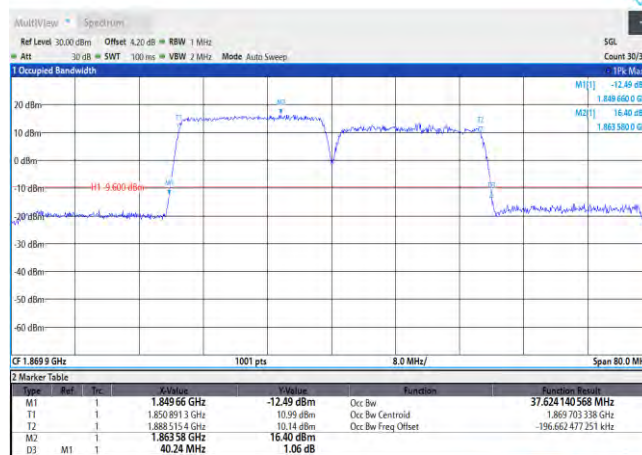


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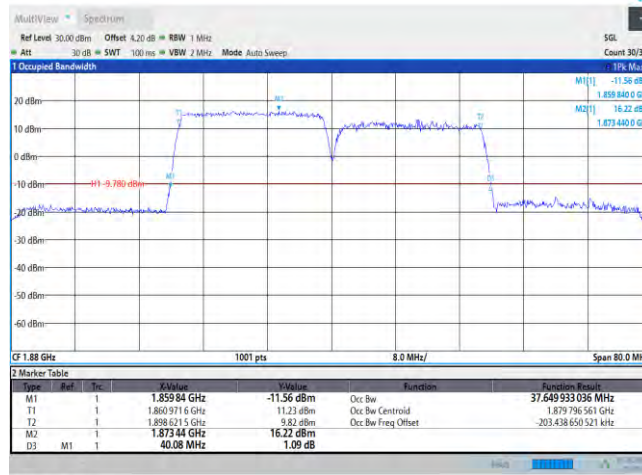
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21:00:49 03.10.2022

2-2-20MHz-20MHz-256QAM-256QAM-18902-19100-100RB#0-100RB#0



21:02:56 03.10.2022



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20:37:34 03.10.2022

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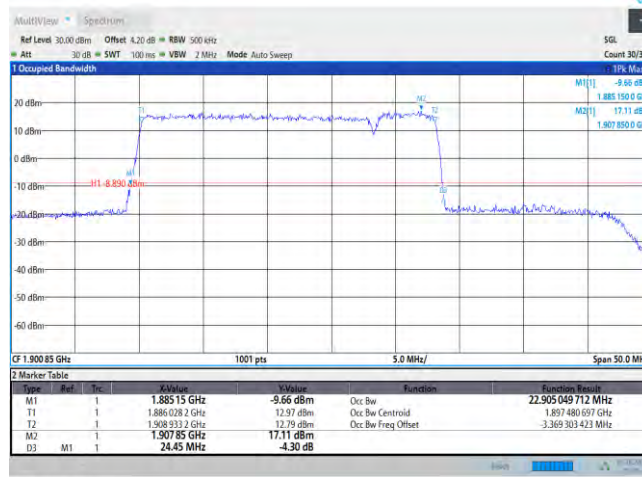
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20:41:48 03.10.2022

2-2-20MHz-5MHz-16QAM-16QAM-18700-18817-100RB#0-25RB#0



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20:40:12 03.10.2022

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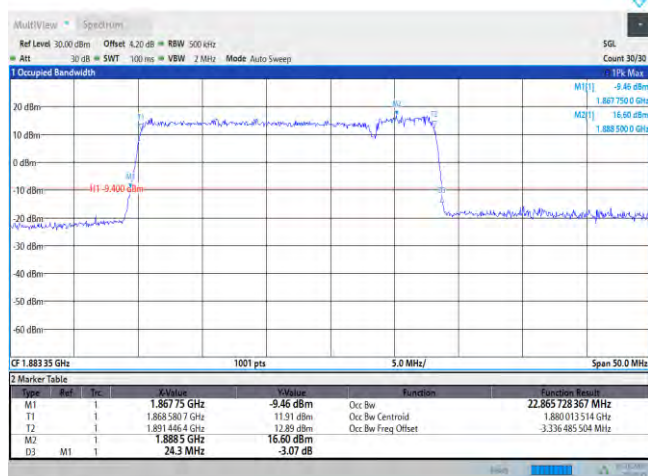
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2-2-20MHz-5MHz-64QAM-64QAM-18700-18817-100RB#0-25RB#0



20:38:37 03.10.2022

2-2-20MHz-5MHz-64QAM-64QAM-18875-18992-100RB#0-25RB#0



20:40:44 03.10.2022



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2-2-20MHz-5MHz-64QAM-64QAM-19050-19167-100RB#0-25RB#0



20:42:51 03.10.2022

2-2-20MHz-5MHz-256QAM-256QAM-18700-18817-100RB#0-25RB#0



20:39:08 03.10.2022

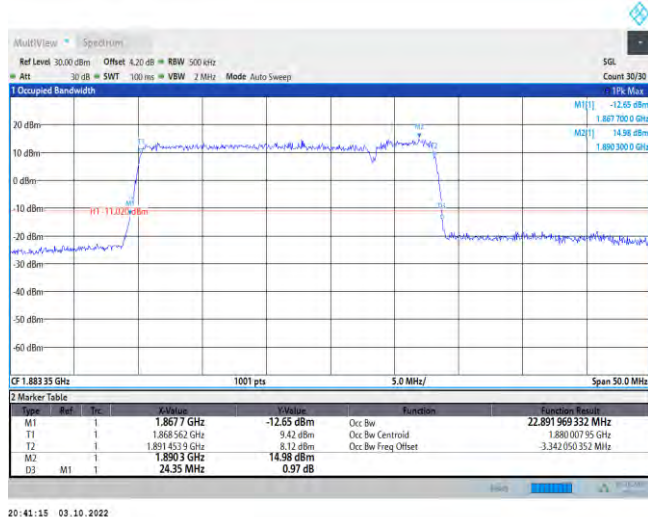


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2-2-20MHz-5MHz-256QAM-256QAM-18875-18992-100RB#0-25RB#0



2-2-20MHz-5MHz-256QAM-256QAM-19050-19167-100RB#0-25RB#0

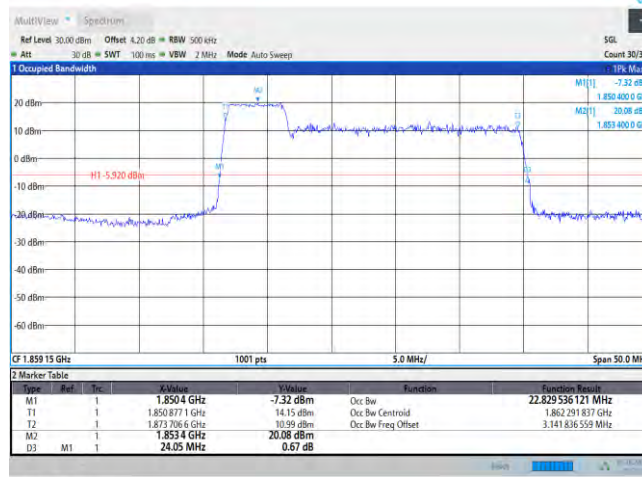


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2-2-5MHz-20MHz-QPSK-QPSK-18633-18750-25RB#0-100RB#0



19:26:20 03.10.2022

2-2-5MHz-20MHz-QPSK-QPSK-18808-18925-25RB#0-100RB#0



19:28:27 03.10.2022

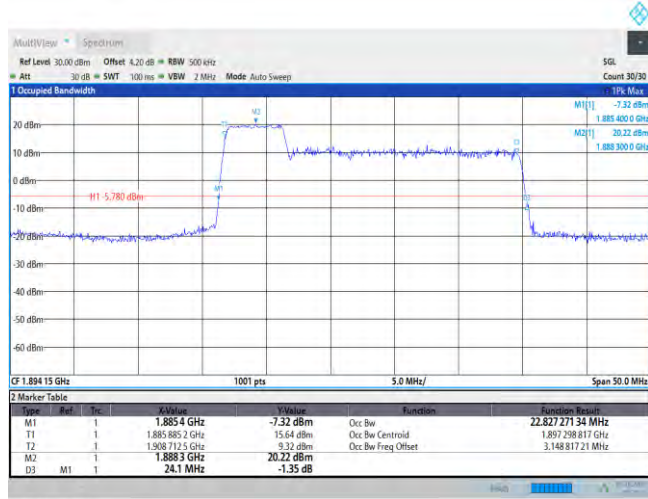


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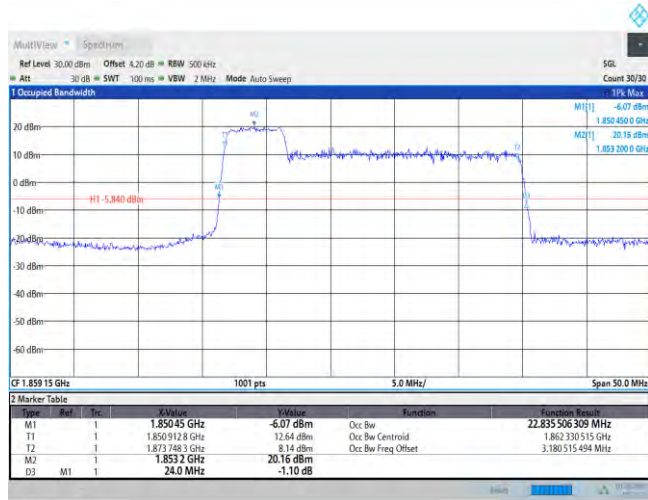
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2-2-5MHz-20MHz-QPSK-QPSK-18983-19100-25RB#0-100RB#0



19:30:34 03.10.2022

2-2-5MHz-20MHz-16QAM-16QAM-18633-18750-25RB#0-100RB#0



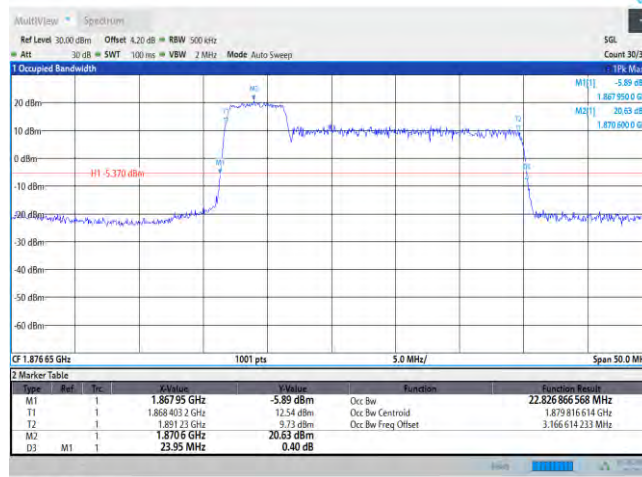
19:26:52 03.10.2022



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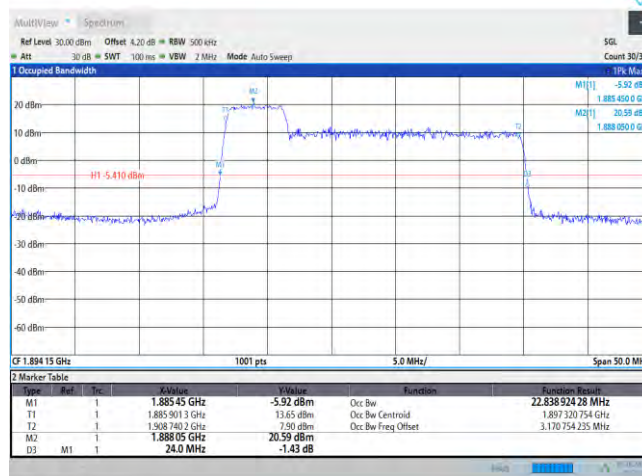
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2-2-5MHz-20MHz-16QAM-16QAM-18808-18925-25RB#0-100RB#0



19:28:59 03.10.2022

2-2-5MHz-20MHz-16QAM-16QAM-18983-19100-25RB#0-100RB#0



19:31:06 03.10.2022



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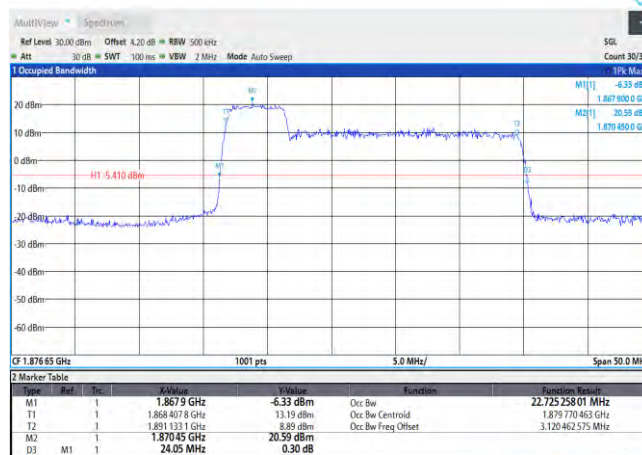
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2-2-5MHz-20MHz-64QAM-64QAM-18633-18750-25RB#0-100RB#0



19:27:23 03.10.2022

2-2-5MHz-20MHz-64QAM-64QAM-18808-18925-25RB#0-100RB#0



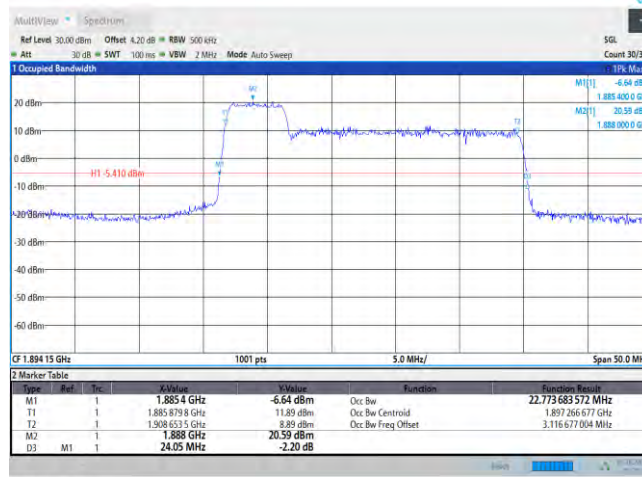
19:29:30 03.10.2022



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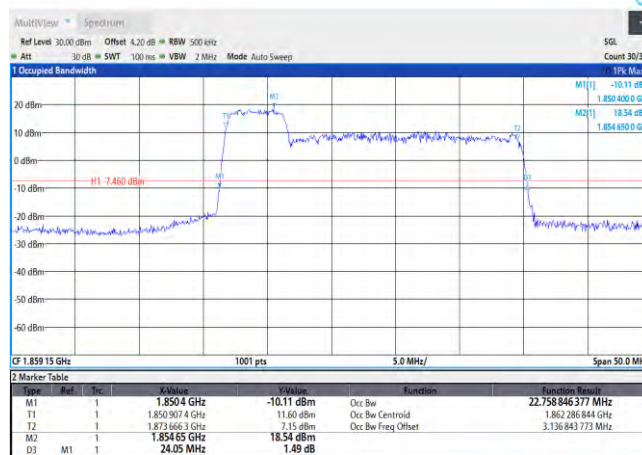
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2-2-5MHz-20MHz-64QAM-64QAM-18983-19100-25RB#0-100RB#0



19:31:37 03.10.2022

2-2-5MHz-20MHz-256QAM-256QAM-18633-18750-25RB#0-100RB#0



19:27:55 03.10.2022



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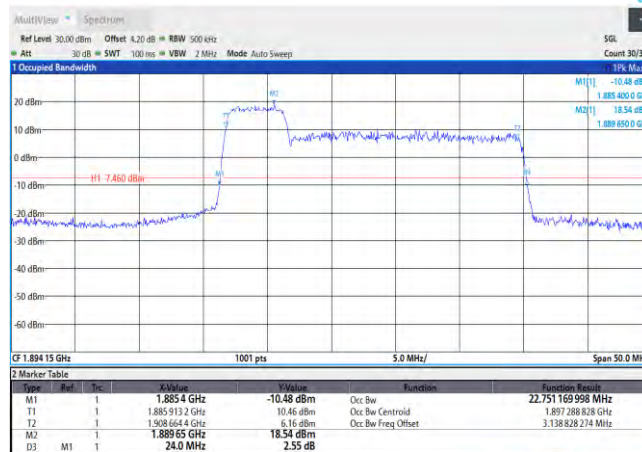
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2-2-5MHz-20MHz-256QAM-256QAM-18808-18925-25RB#0-100RB#0



19:30:02 03.10.2022

2-2-5MHz-20MHz-256QAM-256QAM-18983-19100-25RB#0-100RB#0



19:32:09 03.10.2022



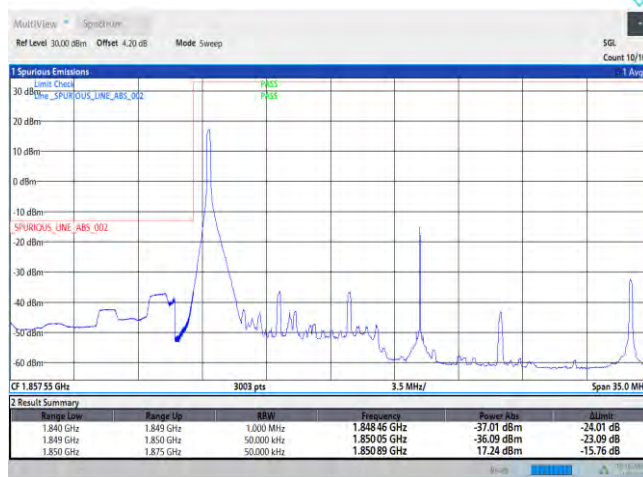
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## Band Edge

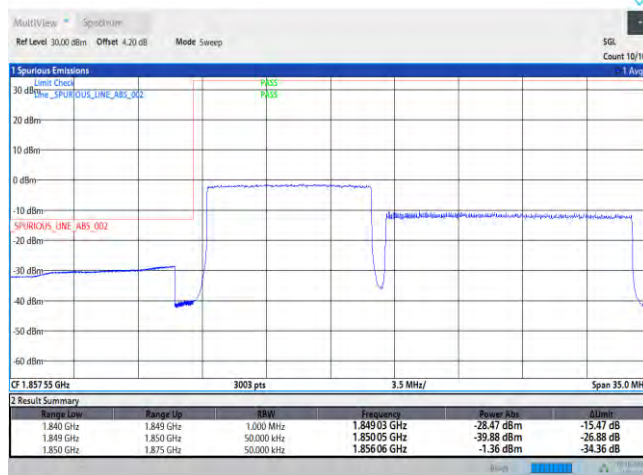
## Test Graphs

2-2-10MHz-15MHz-QPSK-QPSK-18653-18773-1RB#0-0RB#0



16:02:28 10.10.2022

2-2-10MHz-15MHz-QPSK-QPSK-18653-18773-50RB#0-75RB#0



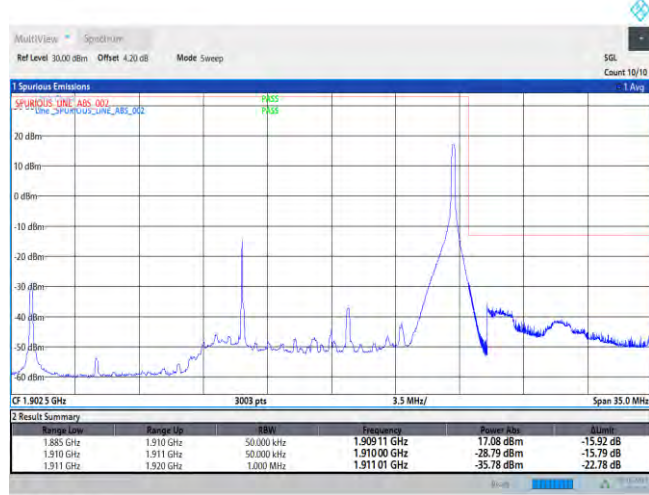
16:33:54 10.10.2022



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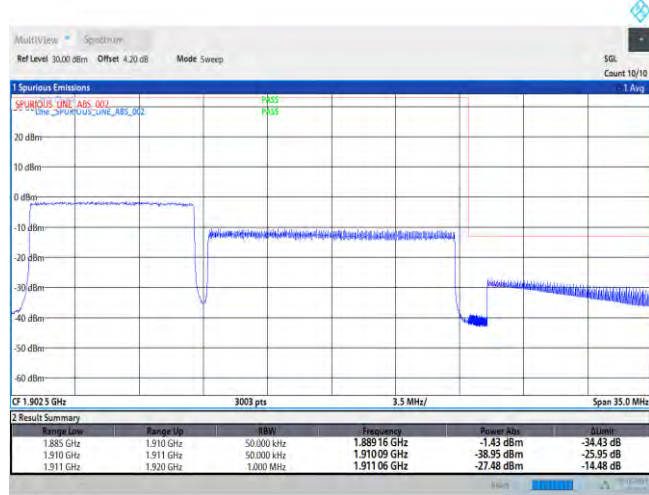
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2-2-10MHz-15MHz-QPSK-QPSK-19005-19125-0RB#0-1RB#74



16:58:28 10.10.2022

2-2-10MHz-15MHz-QPSK-QPSK-19005-19125-50RB#0-75RB#0



16:59:24 10.10.2022



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2-2-10MHz-20MHz-QPSK-QPSK-18655-18799-1RB#0-0RB#0



16:05:01 10.10.2022

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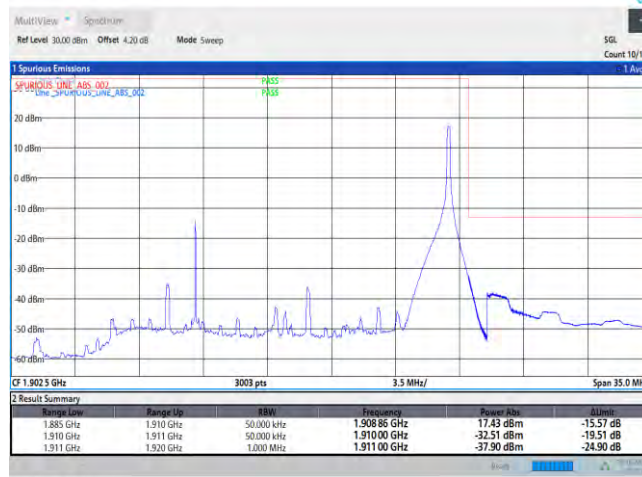
16:05:57 10.10.2022



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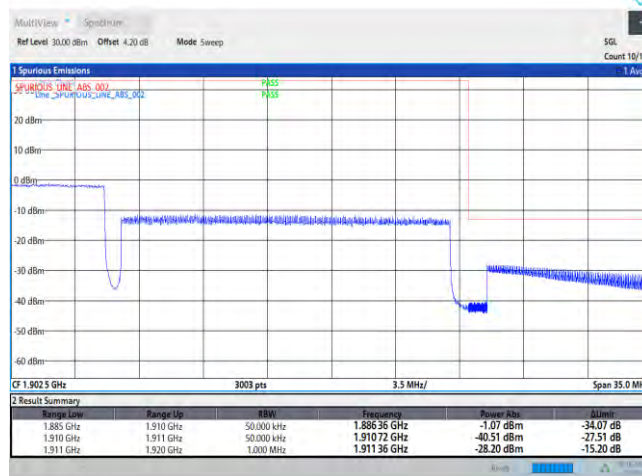
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2-2-10MHz-20MHz-QPSK-QPSK-18956-19100-0RB#0-1RB#99



16:07:11 10.10.2022

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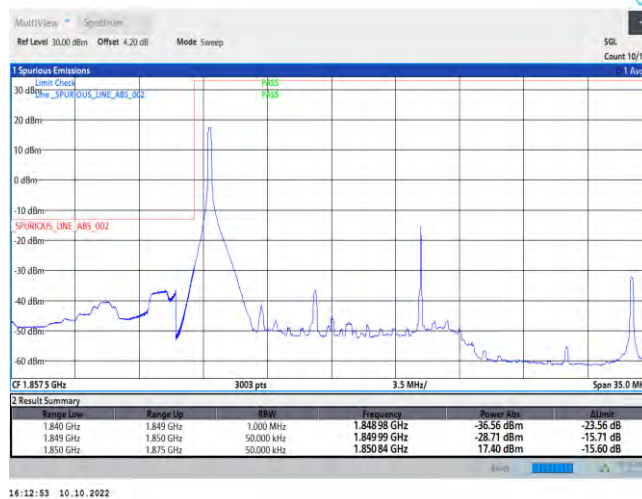
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2-2-15MHz-10MHz-QPSK-QPSK-18675-18795-1RB#0-0RB#0



16:12:53 10.10.2022

2-2-15MHz-10MHz-QPSK-QPSK-18675-18795-75RB#0-50RB#0



16:13:49 10.10.2022

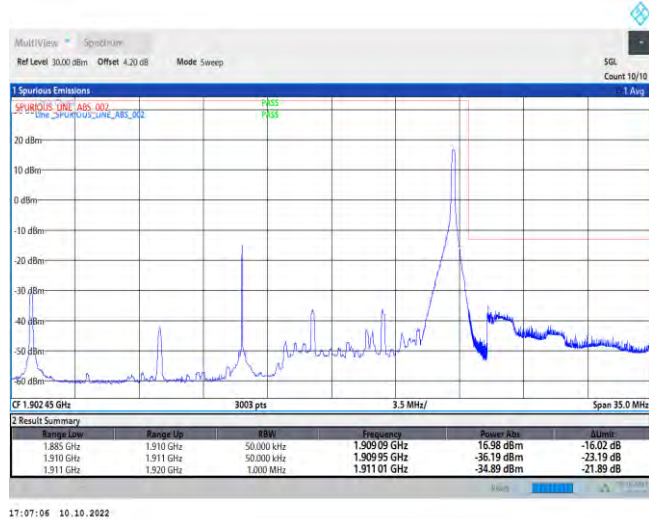


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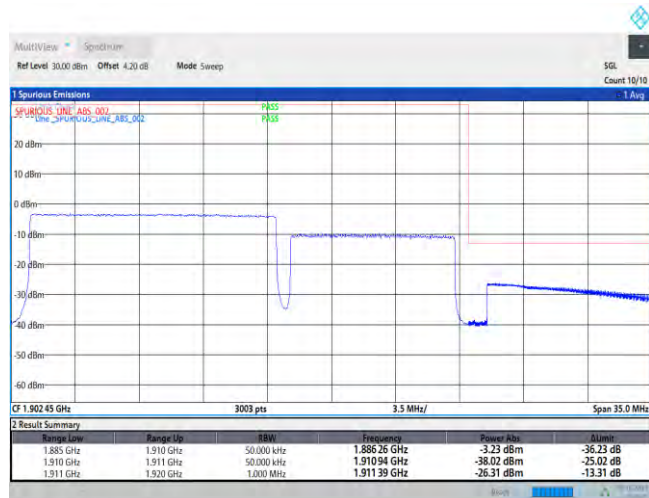
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2-2-15MHz-10MHz-QPSK-QPSK-19027-19147-0RB#0-1RB#49



17:07:06 10.10.2022

2-2-15MHz-10MHz-QPSK-QPSK-19027-19147-75RB#0-50RB#0



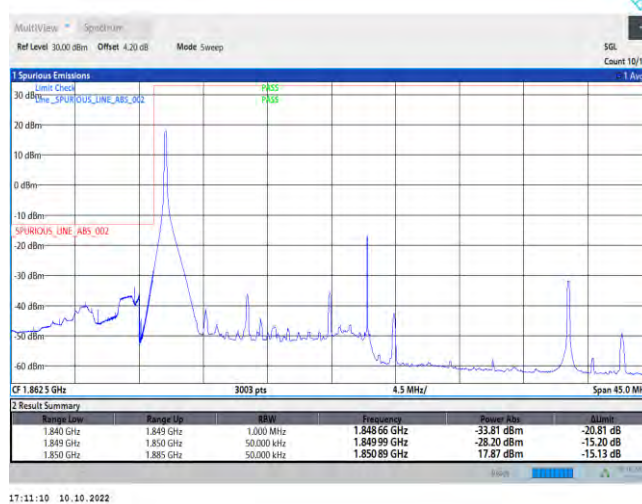
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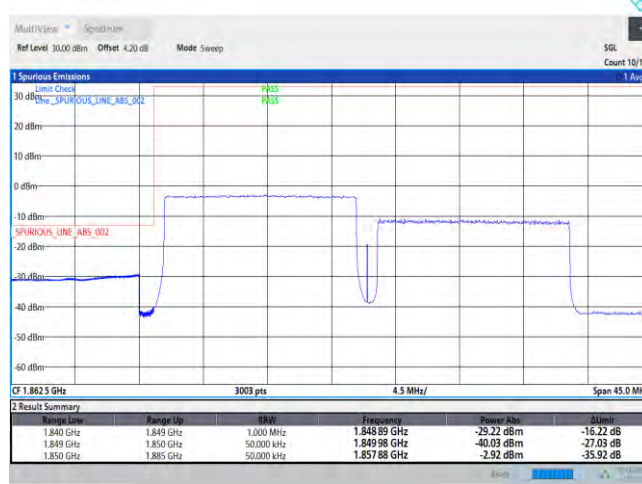
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2-2-15MHz-15MHz-QPSK-QPSK-18675-18825-1RB#0-0RB#0



17:11:10 10.10.2022

2-2-15MHz-15MHz-QPSK-QPSK-18675-18825-75RB#0-75RB#0



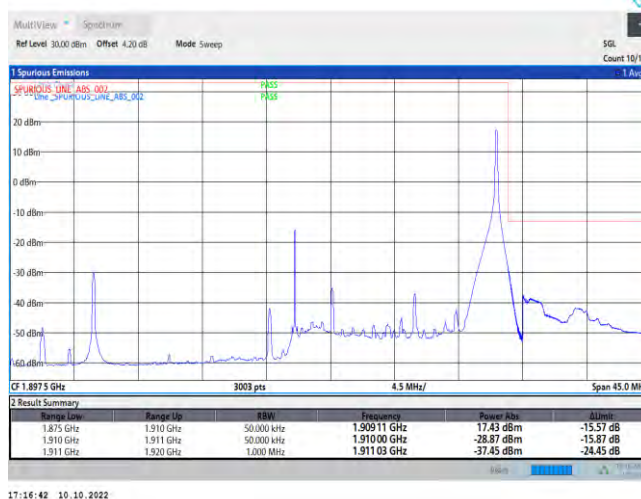
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2-2-15MHZ-15MHZ-QPSK-QPSK-18975-19125-0RB#0-1RB#74



2-2-15MHZ-15MHZ-QPSK-QPSK-18975-19125-75RB#0-75RB#0



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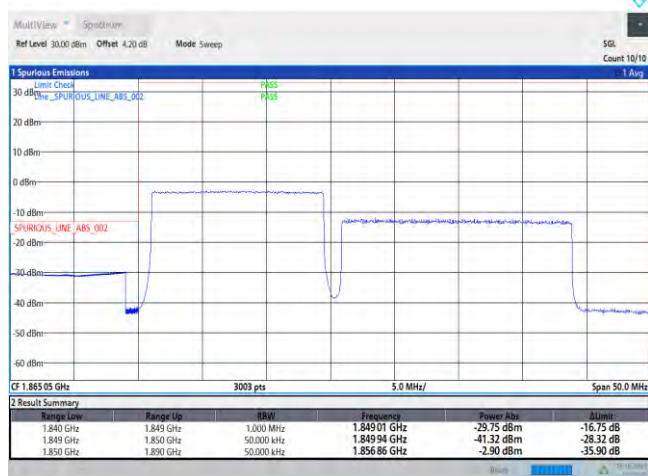
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2-2-15MHz-20MHz-QPSK-QPSK-18678-18849-1RB#0-0RB#0



17:22:57 10.10.2022

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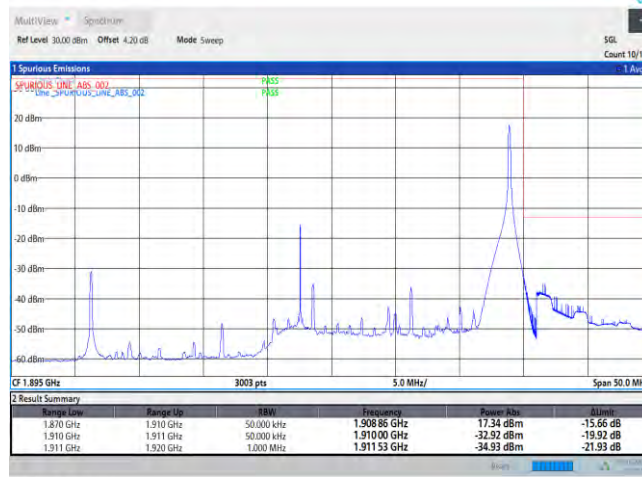
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2-2-15MHz-20MHz-QPSK-QPSK-18929-19100-0RB#0-1RB#99



17:27:57 10.10.2022

2-2-15MHz-20MHz-QPSK-QPSK-18929-19100-75RB#0-100RB#0



17:29:05 10.10.2022

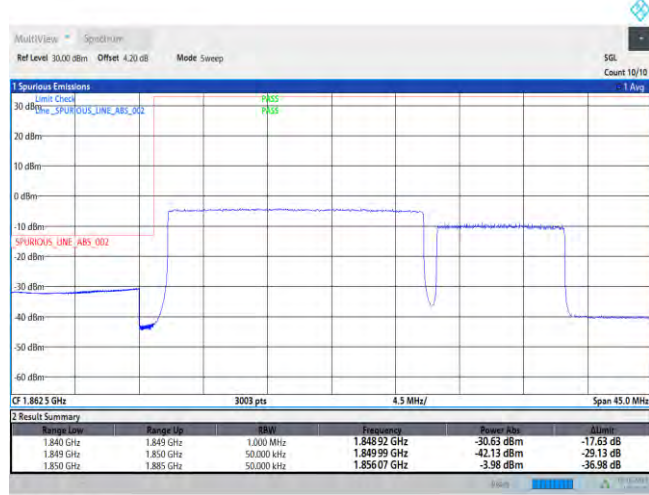


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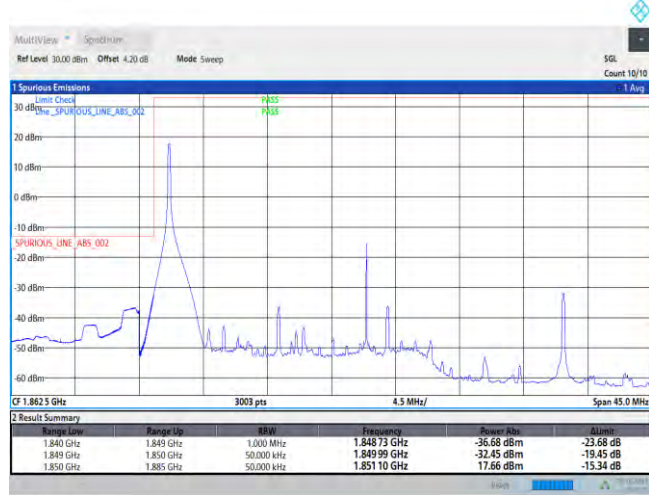


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16:10:29 10.10.2022

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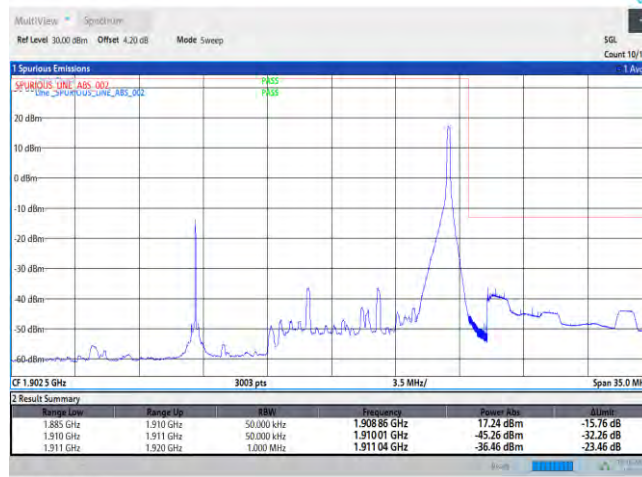
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2-2-20MHz-10MHz-QPSK-QPSK-19001-19145-0RB#0-1RB#49



17:02:09 10.10.2022

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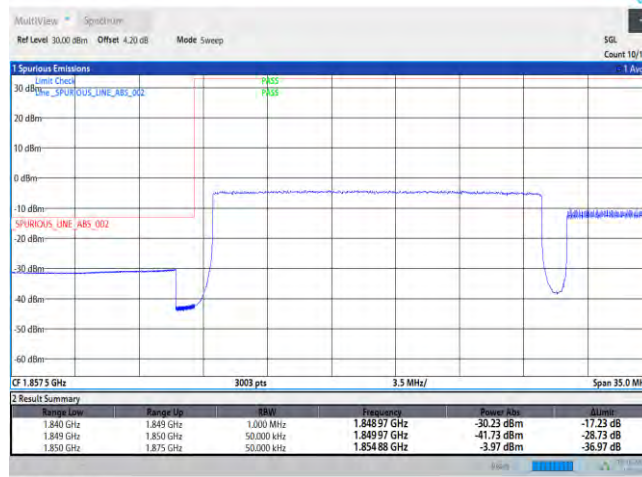
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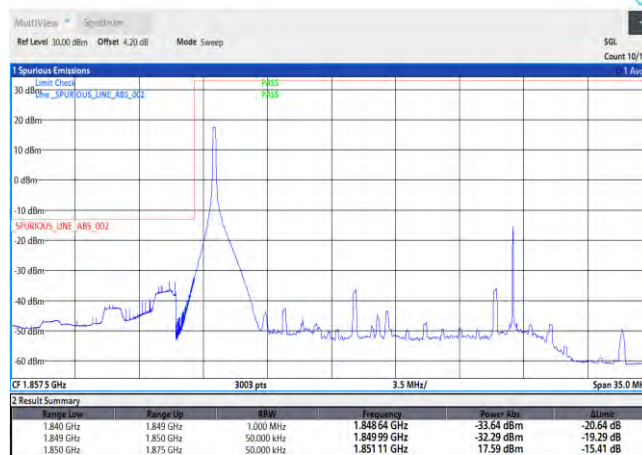
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2-2-20MHz-15MHz-QPSK-QPSK-18700-18871-100RB#0-75RB#0



17:36:03 10.10.2022

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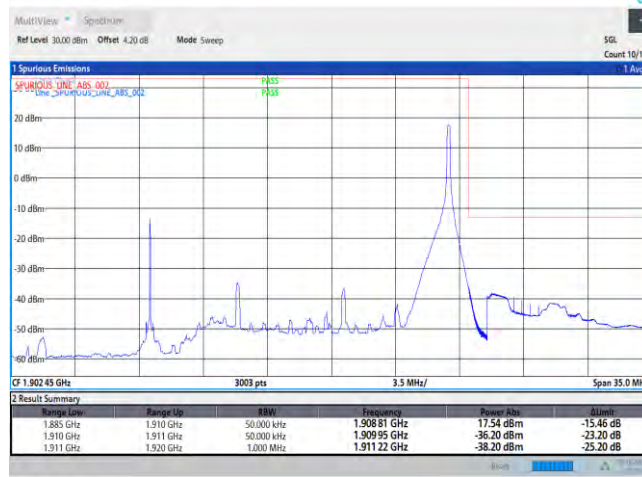
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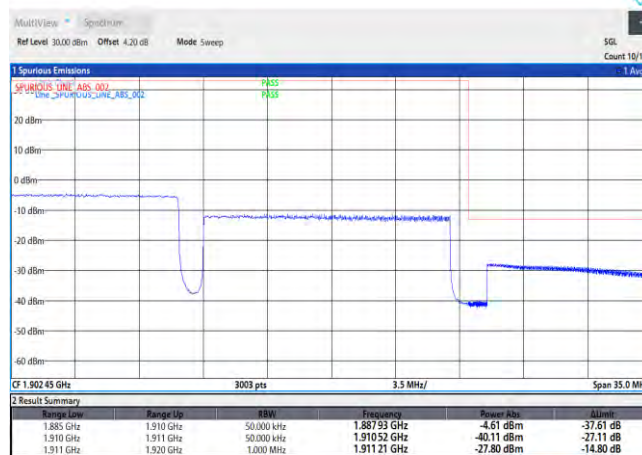
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2-2-20MHz-15MHz-QPSK-QPSK-18951-19122-0RB#0-1RB#74



17:38:48 10.10.2022

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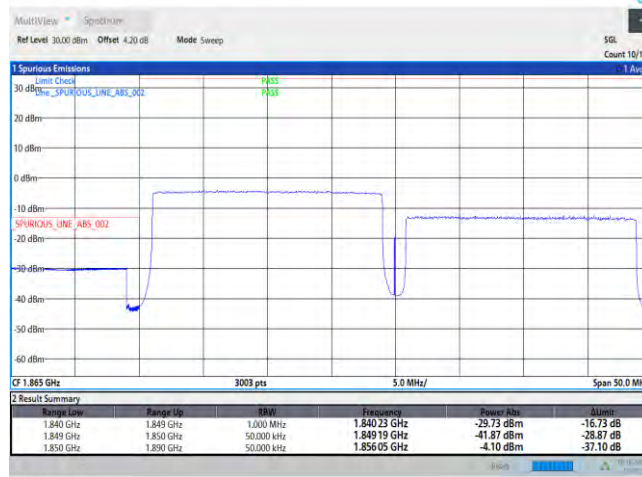
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2-2-20MHz-20MHz-QPSK-QPSK-18700-18898-100RB#0-100RB#0



17:44:16 10.10.2022

2-2-20MHz-20MHz-QPSK-QPSK-18700-18898-1RB#0-0RB#0



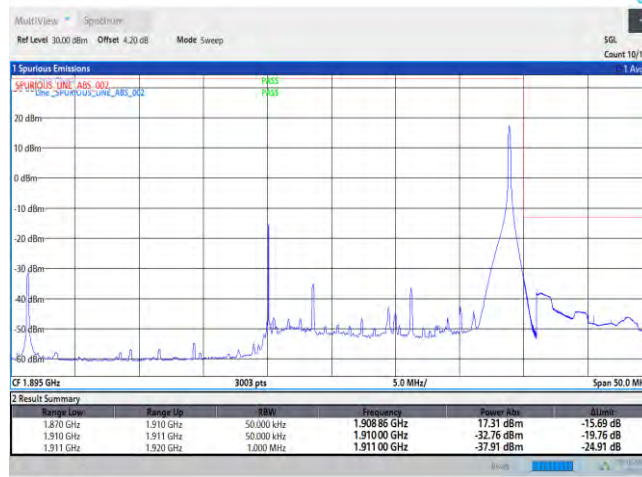
17:43:08 10.10.2022



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2-2-20MHz-20MHz-QPSK-QPSK-18902-19100-0RB#0-1RB#99



17:46:33 10.10.2022

2-2-20MHz-20MHz-QPSK-QPSK-18902-19100-100RB#0-100RB#0



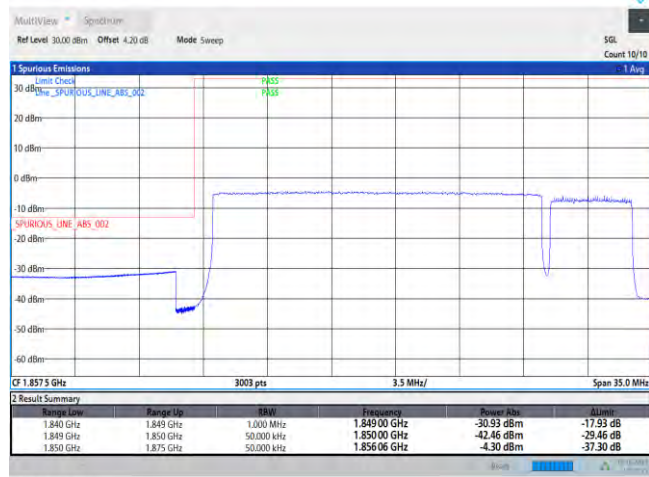
17:47:41 10.10.2022



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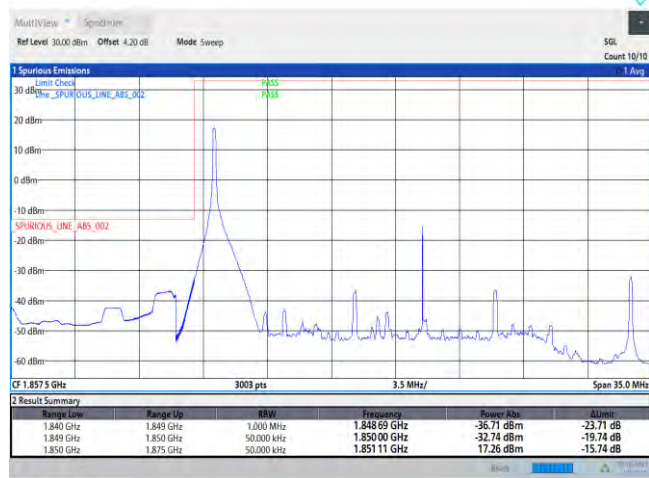
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2-2-20MHz-5MHz-QPSK-QPSK-18700-18817-100RB#0-25RB#0



17:31:13 10.10.2022

2-2-20MHz-5MHz-QPSK-QPSK-18700-18817-1RB#0-0RB#0



17:30:17 10.10.2022



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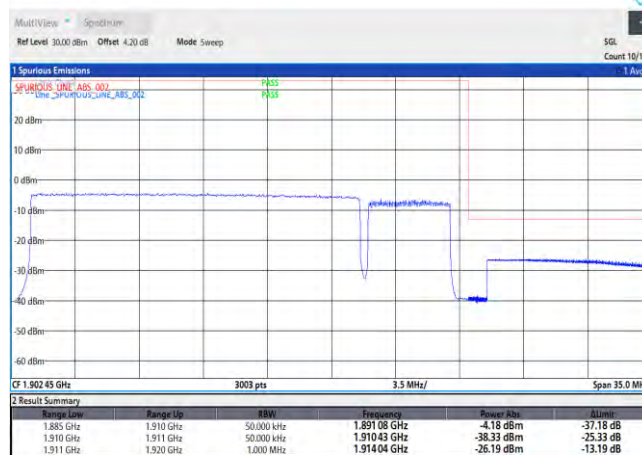
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2-2-20MHz-5MHz-QPSK-QPSK-19050-19167-ORB#0-1RB#24



17:32:25 10.10.2022

2-2-20MHz-5MHz-QPSK-QPSK-19050-19167-100RB#0-25RB#0



17:33:21 10.10.2022

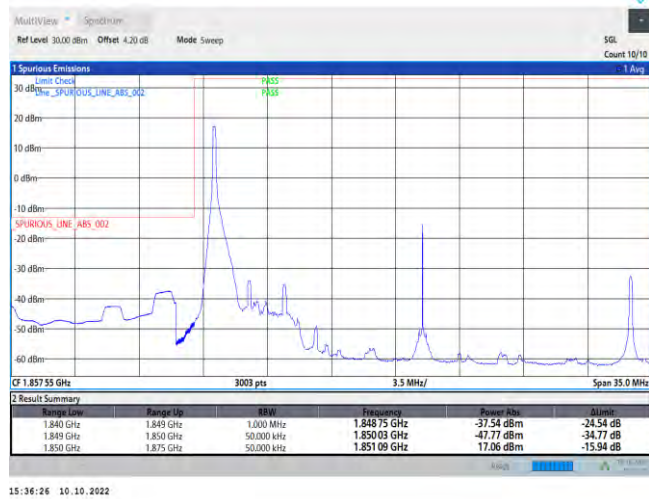


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2-2-5MHz-20MHz-QPSK-QPSK-18633-18750-1RB#0-0RB#0



2-2-5MHz-20MHz-QPSK-QPSK-18633-18750-25RB#0-100RB#0



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2-2-5MHz-20MHz-QPSK-QPSK-18983-19100-ORB#0-1RB#99



15:39:56 10.10.2022

2-2-5MHz-20MHz-QPSK-QPSK-18983-19100-25RB#0-100RB#0



15:40:52 10.10.2022



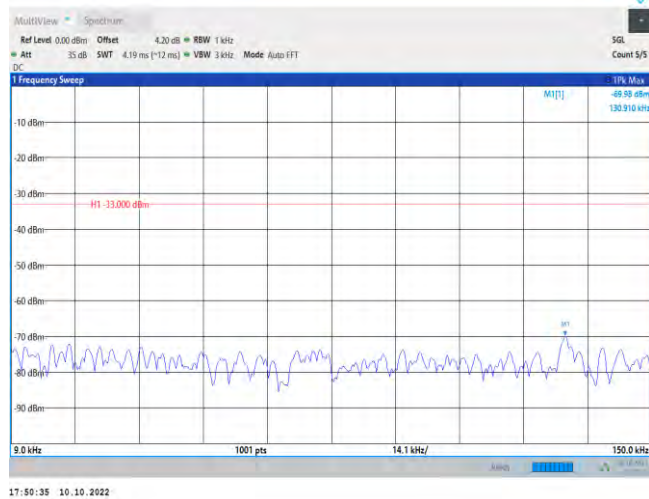
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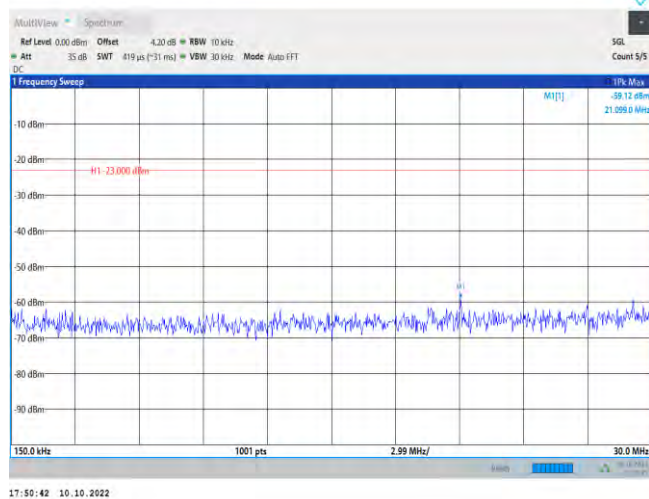
## Conducted Spurious Emission

### Test Graphs

2-2-20MHz-20MHz-QPSK-QPSK-18700-18898-1RB#0-0RB#0-0.009~0.15MHz



2-2-20MHz-20MHz-QPSK-QPSK-18700-18898-1RB#0-0RB#0-0.15~30MHz

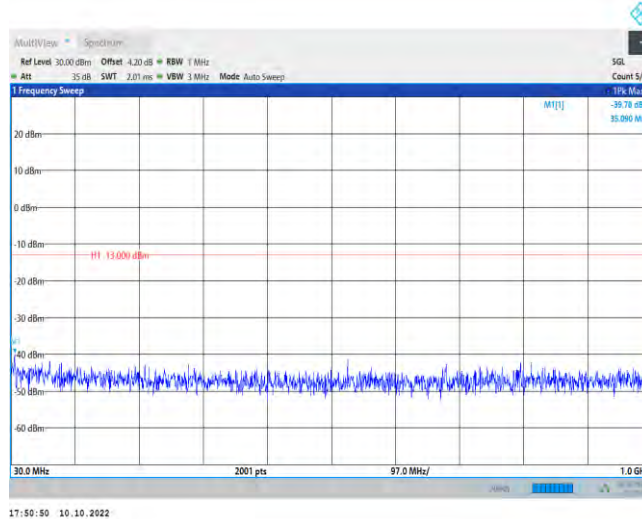


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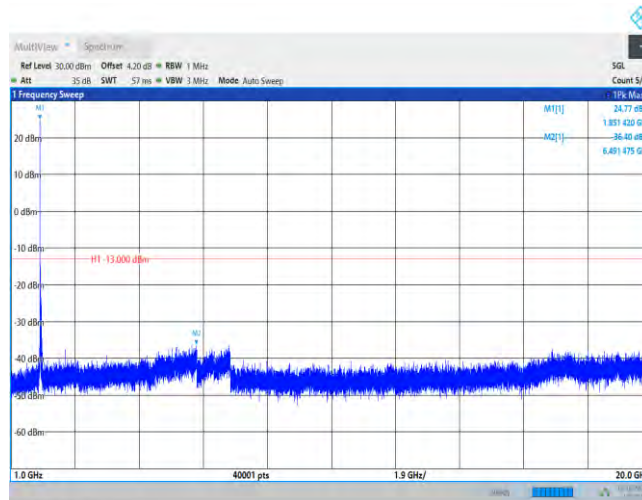
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2-2-20MHz-20MHz-QPSK-QPSK-18700-18898-1RB#0-0RB#0-30~1000MHz



17:50:50 10.10.2022

2-2-20MHz-20MHz-QPSK-QPSK-18700-18898-1RB#0-0RB#0-1000~20000MHz



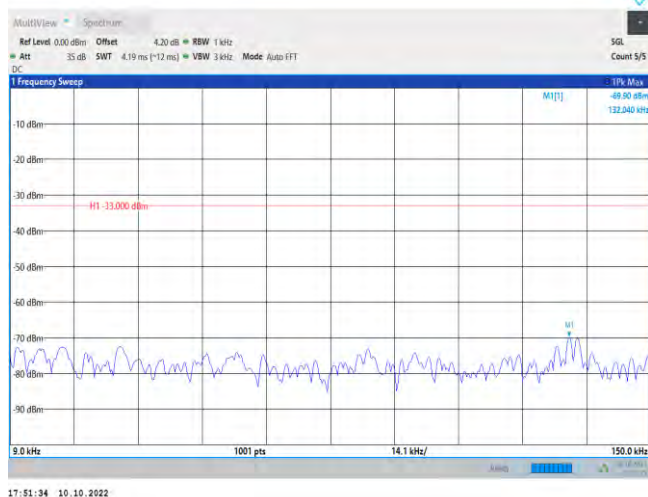
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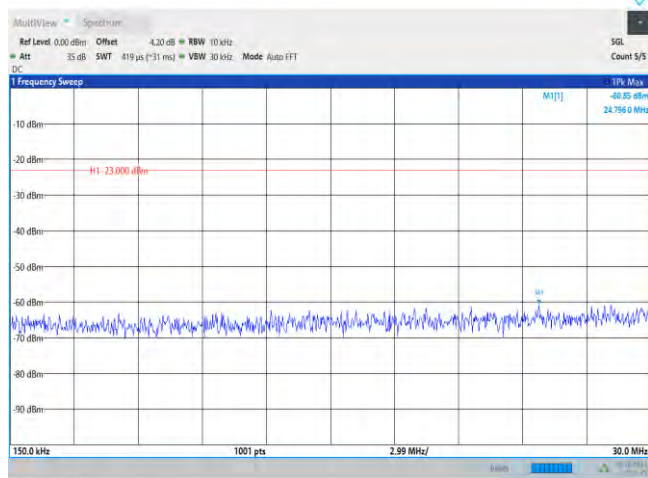
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2-2-20MHz-20MHz-QPSK-QPSK-18801-18999-1RB#0-0RB#0-0.009~0.15MHz



17:51:34 10.10.2022

2-2-20MHz-20MHz-QPSK-QPSK-18801-18999-1RB#0-0RB#0-0.15~30MHz



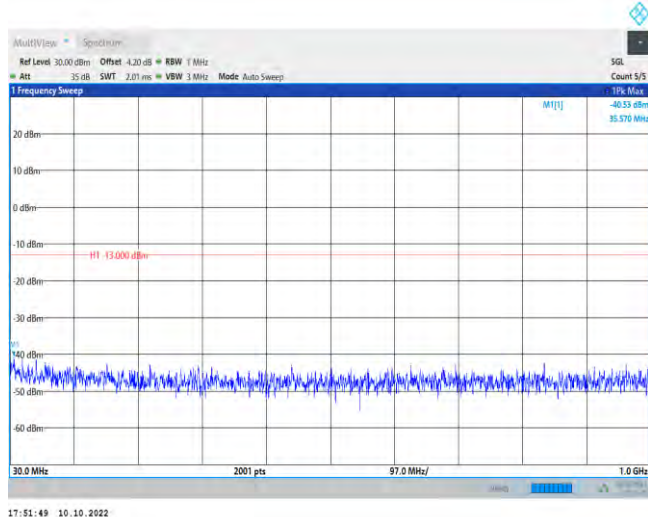
17:51:41 10.10.2022



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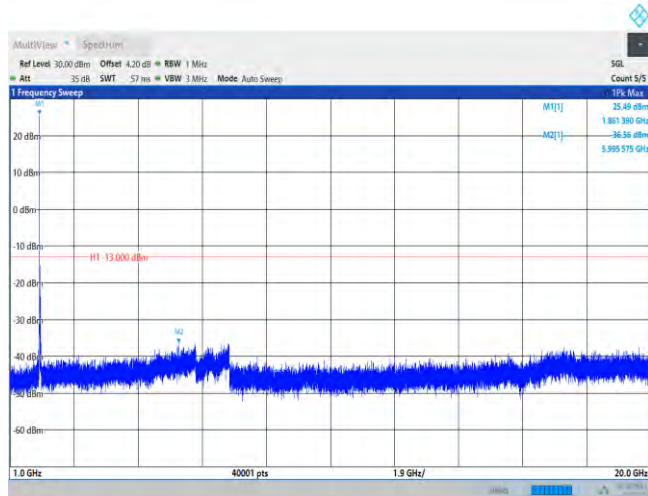
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2-2-20MHz-20MHz-QPSK-QPSK-18801-18999-1RB#0-0RB#0-30~1000MHz



17:51:49 10.10.2022

2-2-20MHz-20MHz-QPSK-QPSK-18801-18999-1RB#0-0RB#0-1000~20000MHz

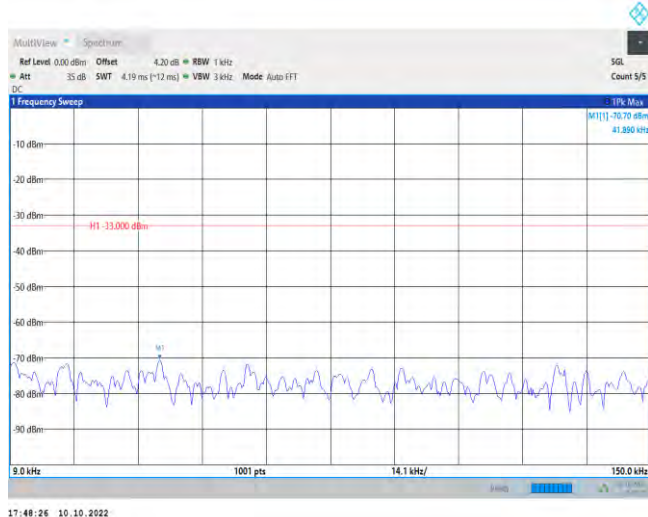


17:51:57 10.10.2022



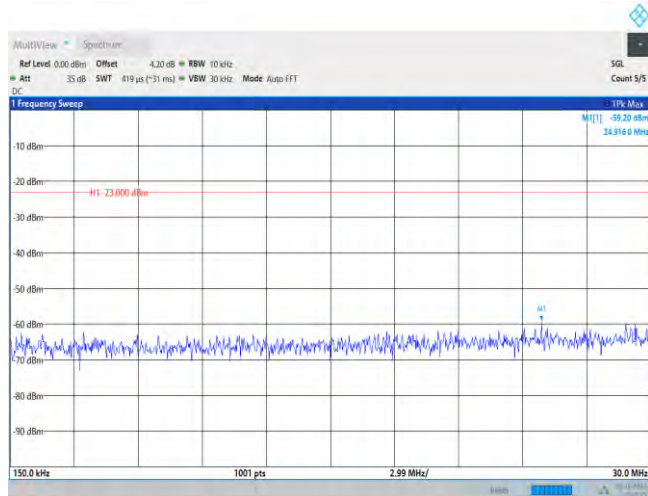
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2-2-20MHz-20MHz-QPSK-QPSK-18902-19100-1RB#0-0RB#0-0.009~0.15MHz



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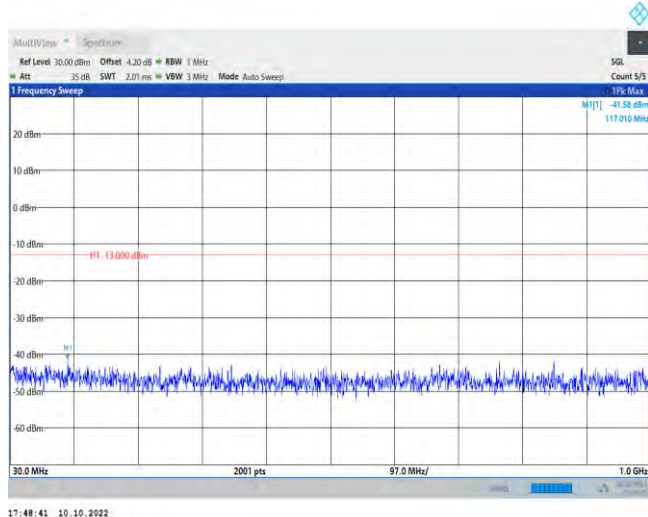


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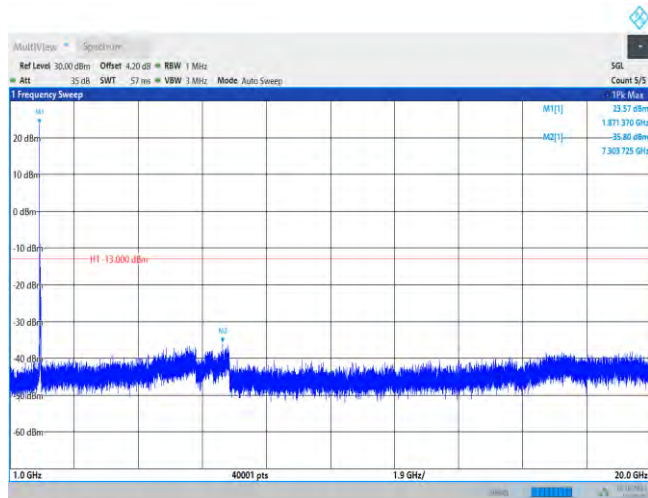
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2-2-20MHz-20MHz-QPSK-QPSK-18902-19100-1RB#0-0RB#0-30~1000MHz



17:48:41 10.10.2022

2-2-20MHz-20MHz-QPSK-QPSK-18902-19100-1RB#0-0RB#0-1000~20000MHz



17:48:49 10.10.2022



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## Field Strength of Spurious Radiation

Test Band = LTE Band2\_CA\_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	3702.1800	52.28	-45.51	29.98	-58.51	-13.00	45.51	215	239	Horizontal
2	5553.2700	48.21	-45.15	32.97	-59.23	-13.00	46.23	147	87	Horizontal
3	7404.3600	46.22	-43.40	36.49	-55.95	-13.00	42.95	185	314	Horizontal
4	9255.4500	36.36	-40.23	38.38	-60.75	-13.00	47.75	136	2	Horizontal
5	11106.5400	30.66	-37.93	39.09	-63.44	-13.00	50.44	251	299	Horizontal
6	12957.6300	31.30	-37.24	39.79	-61.41	-13.00	48.41	236	87	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	3702	57.27	-45.51	29.98	-53.52	-13.00	40.52	142	286	Vertical
2	5553.2700	48.61	-45.15	32.97	-58.83	-13.00	45.83	165	224	Vertical
3	7404.3600	44.09	-43.40	36.49	-58.08	-13.00	45.08	185	178	Vertical
4	9255.4500	36.54	-40.23	38.38	-60.57	-13.00	47.57	169	193	Vertical
5	11106.5400	31.28	-37.93	39.09	-62.82	-13.00	49.82	175	2	Vertical
6	12957.6300	32.30	-37.24	39.79	-60.41	-13.00	47.41	142	356	Vertical



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Test Band = LTE Band2\_CA\_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	3702	53.69	-45.51	29.98	-57.10	-13.00	44.10	284	239	Horizontal
2	5583.2700	46.37	-45.10	33.00	-60.99	-13.00	47.99	156	133	Horizontal
3	7444.7600	43.78	-43.29	36.47	-58.30	-13.00	45.30	291	56	Horizontal
4	9305.9500	36.73	-40.20	38.42	-60.31	-13.00	47.31	174	301	Horizontal
5	11167.1400	33.61	-37.58	39.10	-60.13	-13.00	47.13	125	239	Horizontal
6	13028.3300	29.63	-37.23	39.84	-63.02	-13.00	50.02	133	194	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	3702	55.75	-45.51	29.98	-55.04	-13.00	42.04	175	268	Vertical
2	5583.2700	47.51	-45.10	33.00	-59.85	-13.00	46.85	145	117	Vertical
3	7444.7600	43.33	-43.29	36.47	-58.75	-13.00	45.75	269	356	Vertical
4	9305.9500	36.51	-40.20	38.42	-60.53	-13.00	47.53	281	1	Vertical
5	11167.1400	32.76	-37.58	39.10	-60.98	-13.00	47.98	142	163	Vertical
6	13028.3300	30.41	-37.23	39.84	-62.24	-13.00	49.24	133	56	Vertical



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Test Band = LTE Band2\_CA\_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	3742.5800	47.59	-45.68	30.13	-63.23	-13.00	50.23	248	163	Horizontal
2	5613.8700	47.26	-45.04	33.07	-59.97	-13.00	46.97	169	331	Horizontal
3	7485.1600	43.90	-43.18	36.45	-58.09	-13.00	45.09	211	2	Horizontal
4	9356.4500	37.24	-40.00	38.46	-59.56	-13.00	46.56	147	2	Horizontal
5	11227.7400	33.03	-37.40	39.11	-60.52	-13.00	47.52	175	0	Horizontal
6	13099.0300	30.20	-37.00	39.87	-62.19	-13.00	49.19	165	134	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	3702	57.77	-45.51	29.98	-53.02	-13.00	40.02	255	301	Vertical
2	5613.8700	47.34	-45.04	33.07	-59.89	-13.00	46.89	142	239	Vertical
3	7485.1600	43.87	-43.18	36.45	-58.12	-13.00	45.12	236	2	Vertical
4	9356.4500	36.55	-40.00	38.46	-60.25	-13.00	47.25	266	301	Vertical
5	11227.7400	33.91	-37.40	39.11	-59.64	-13.00	46.64	261	194	Vertical
6	13099.0300	30.33	-37.00	39.87	-62.06	-13.00	49.06	148	0	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
2-2	20MHz-20MHz	QPSK-QPSK	18801-18999	100RB#0-100RB#0	VH	NT	54.20	0.028982	PASS
2-2	20MHz-20MHz	QPSK-QPSK	18801-18999	100RB#0-100RB#0	VL	NT	46.10	0.024651	PASS
2-2	20MHz-20MHz	QPSK-QPSK	18801-18999	100RB#0-100RB#0	VN	NT	42.50	0.022726	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
2-2	20MHz-20MHz	QPSK-QPSK	18801-18999	100RB#0-100RB#0	NV	50	19.20	0.010267	PASS
2-2	20MHz-20MHz	QPSK-QPSK	18801-18999	100RB#0-100RB#0	NV	40	20.60	0.011015	PASS
2-2	20MHz-20MHz	QPSK-QPSK	18801-18999	100RB#0-100RB#0	NV	30	43.00	0.022993	PASS
2-2	20MHz-20MHz	QPSK-QPSK	18801-18999	100RB#0-100RB#0	NV	20	26.70	0.014277	PASS
2-2	20MHz-20MHz	QPSK-QPSK	18801-18999	100RB#0-100RB#0	NV	10	29.60	0.015828	PASS
2-2	20MHz-20MHz	QPSK-QPSK	18801-18999	100RB#0-100RB#0	NV	0	30.40	0.016256	PASS
2-2	20MHz-20MHz	QPSK-QPSK	18801-18999	100RB#0-100RB#0	NV	-10	46.30	0.024758	PASS
2-2	20MHz-20MHz	QPSK-QPSK	18801-18999	100RB#0-100RB#0	NV	-20	34.00	0.018181	PASS
2-2	20MHz-20MHz	QPSK-QPSK	18801-18999	100RB#0-100RB#0	NV	-30	41.80	0.022352	PASS

---End of Attachment---



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