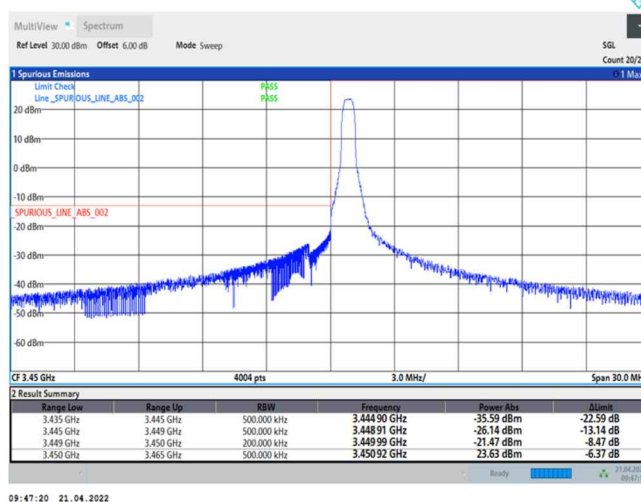


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Band42-15MHz-QPSK-42165-1RB#0



Band42-15MHz-QPSK-42165-75RB#0



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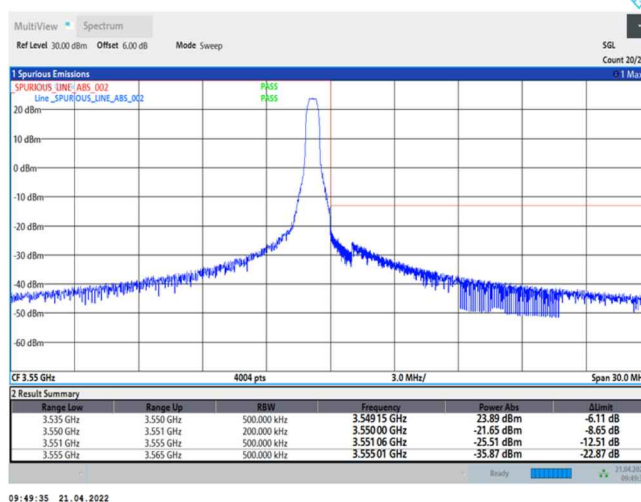
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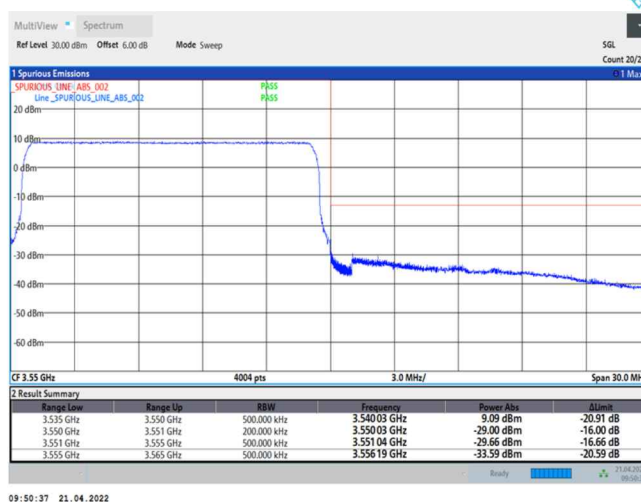
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Band42-15MHz-QPSK-43015-1RB#74



09:49:35 21.04.2022

Band42-15MHz-QPSK-43015-75RB#0



09:50:37 21.04.2022



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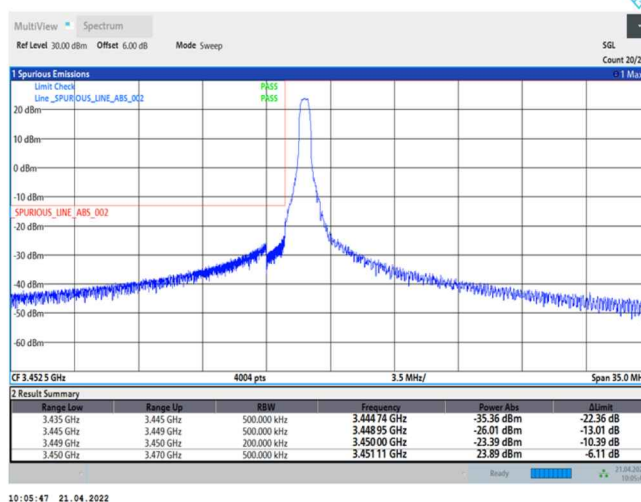
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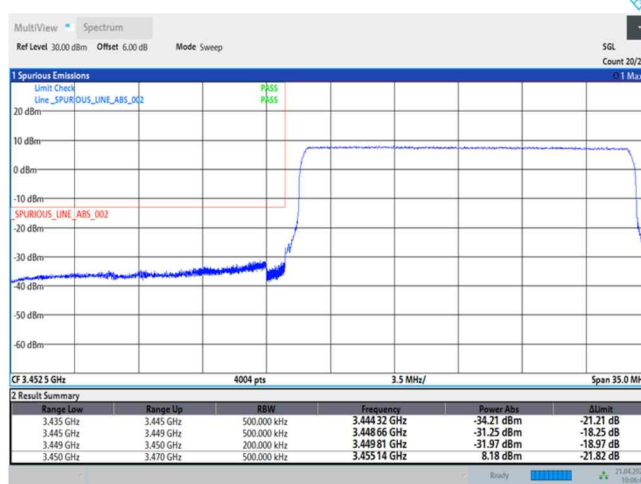
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Band42-20MHz-QPSK-42190-1RB#0



10:05:47 21.04.2022

Band42-20MHz-QPSK-42190-100RB#0



10:06:46 21.04.2022



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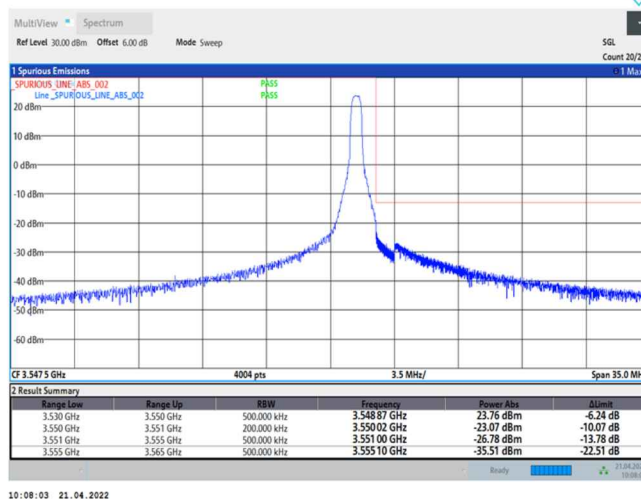
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Band42-20MHz-QPSK-42990-100RB#0



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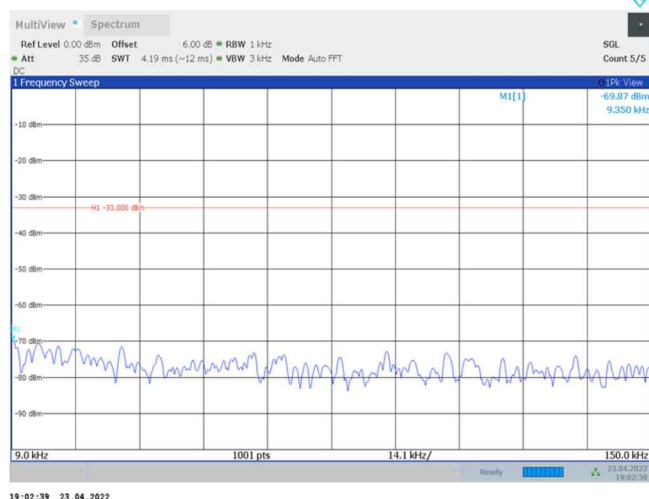
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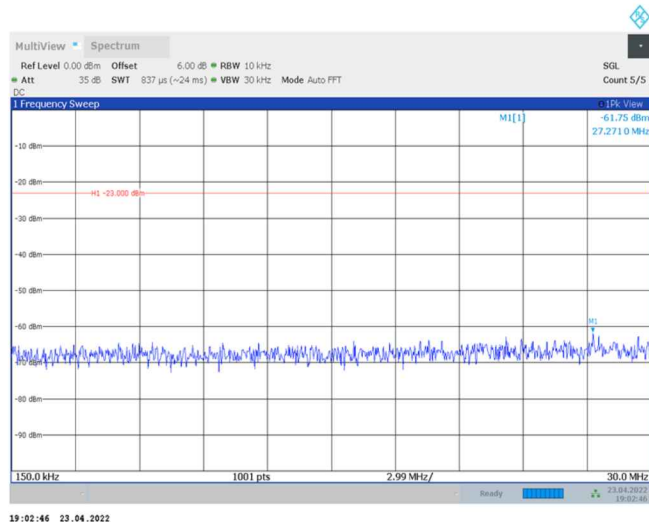
Conducted Spurious Emission

Test Graphs

Band42-20MHz-QPSK-42190-1RB#0-Range1:0.009~0.15MHz



Band42-20MHz-QPSK-42190-1RB#0-Range2:0.15~30MHz



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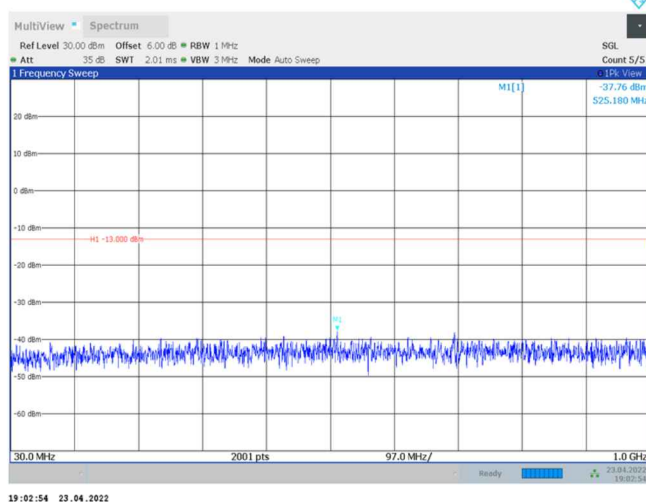
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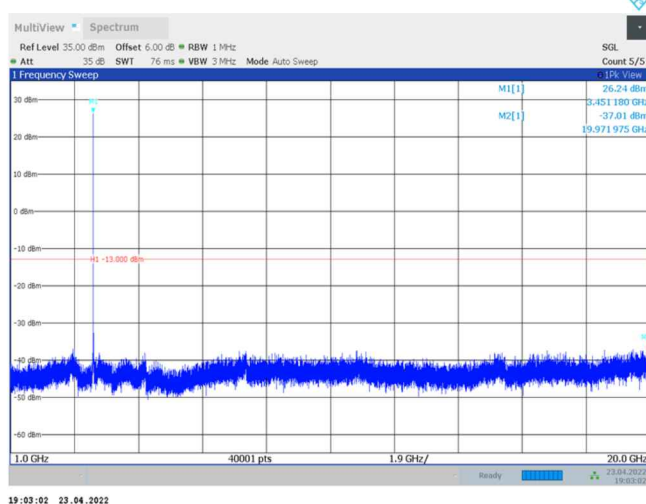
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Band42-20MHz-QPSK-42190-1RB#0-Range3:30~1000MHz



Band42-20MHz-QPSK-42190-1RB#0-Range4:1000~20000MHz



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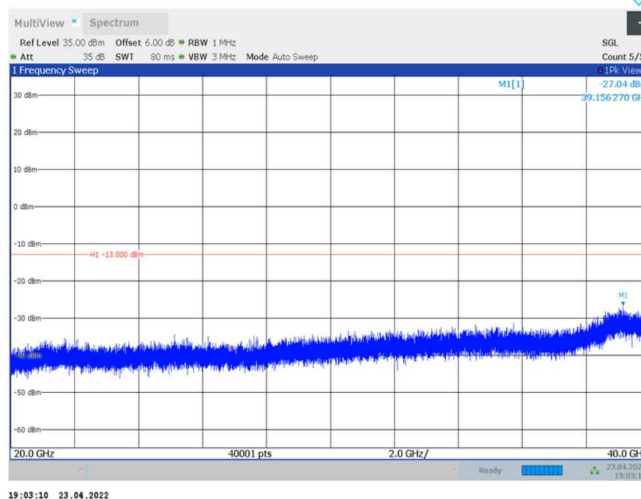
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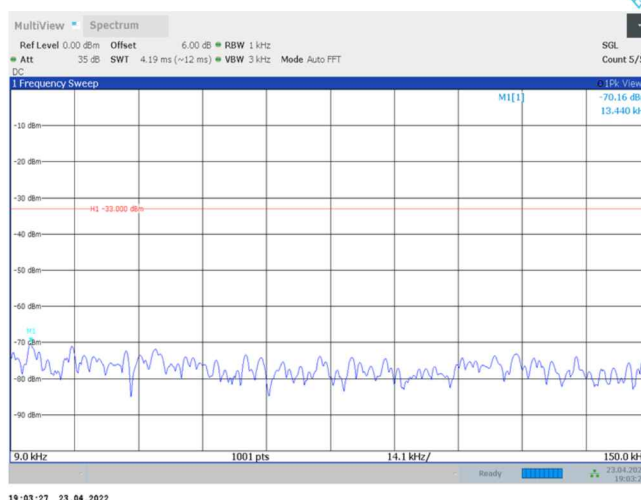
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Band42-20MHz-QPSK-42190-1RB#0-Range5:20000~40000MHz



Band42-20MHz-QPSK-42590-1RB#0-Range1:0.009~0.15MHz



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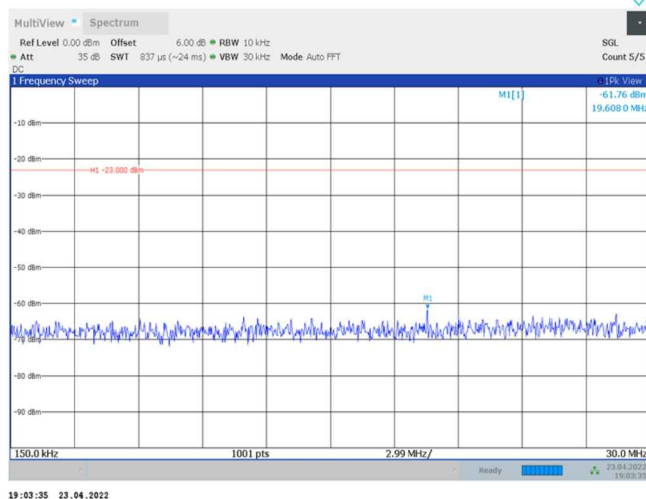
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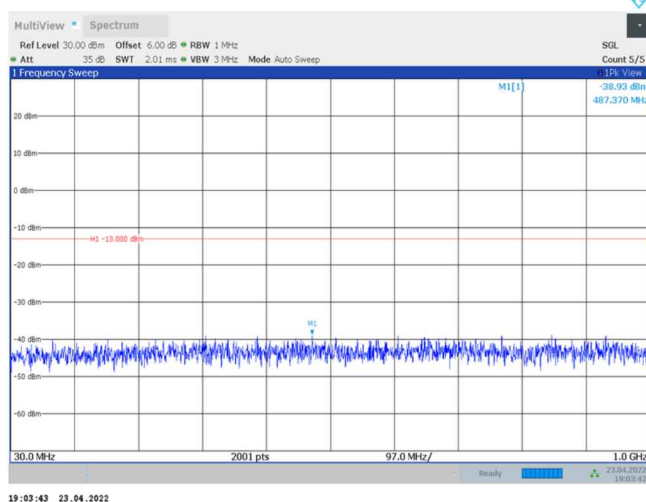
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Band42-20MHz-QPSK-42590-1RB#0-Range2:0.15~30MHz



Band42-20MHz-QPSK-42590-1RB#0-Range3:30~1000MHz



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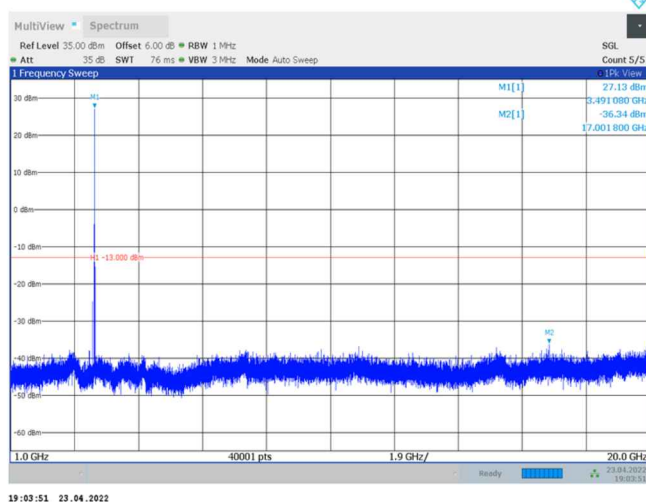
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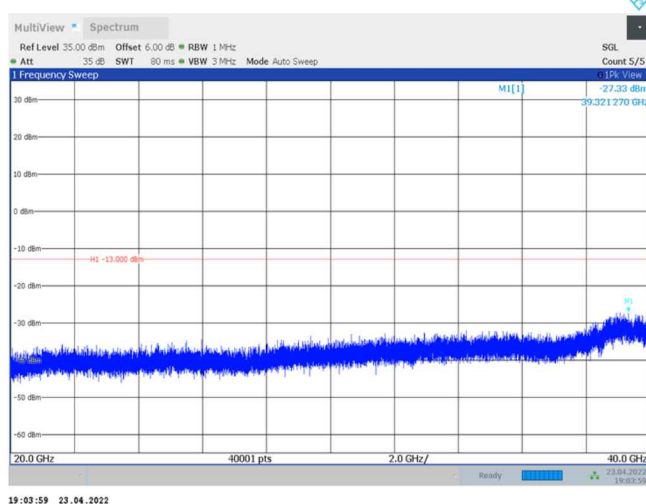
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Band42-20MHz-QPSK-42590-1RB#0-Range4:1000~20000MHz



Band42-20MHz-QPSK-42590-1RB#0-Range5:20000~40000MHz



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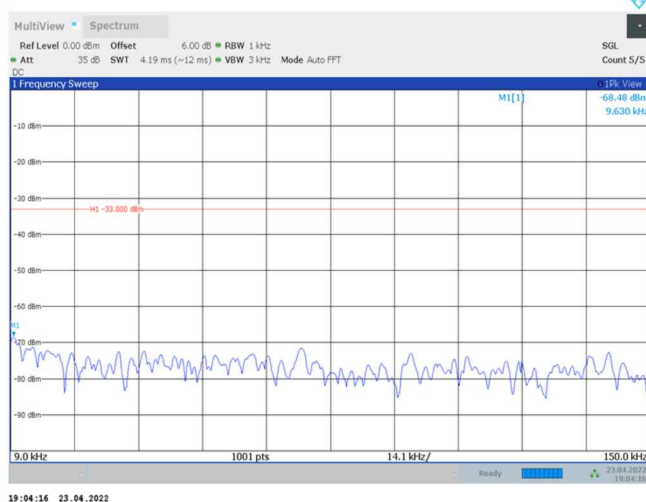
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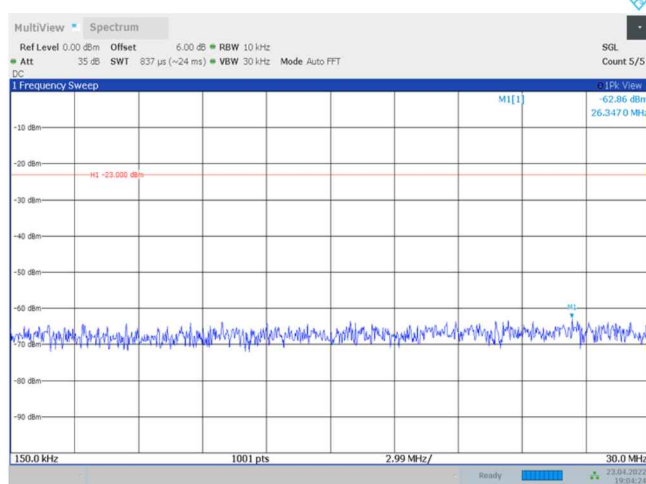
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Band42-20MHz-QPSK-42990-1RB#0-Range1:0.009~0.15MHz



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Band42-20MHz-QPSK-42990-1RB#0-Range2:0.15~30MHz



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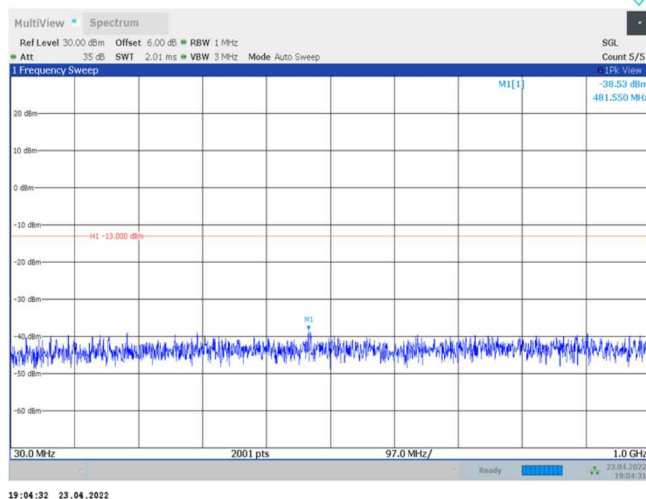
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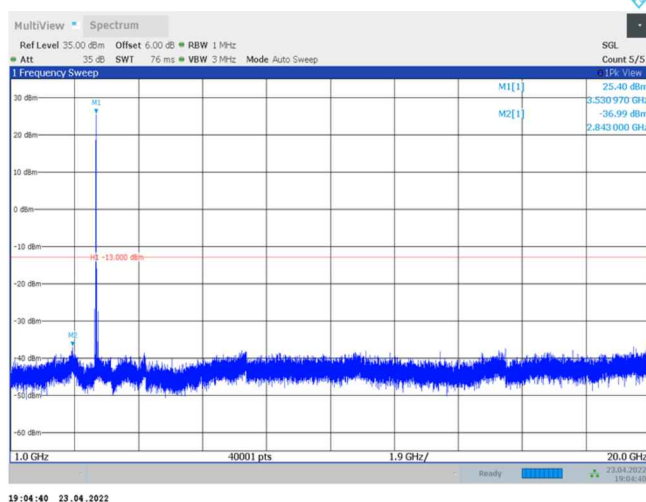
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Band42-20MHz-QPSK-42990-1RB#0-Range3:30~1000MHz



Band42-20MHz-QPSK-42990-1RB#0-Range4:1000~20000MHz



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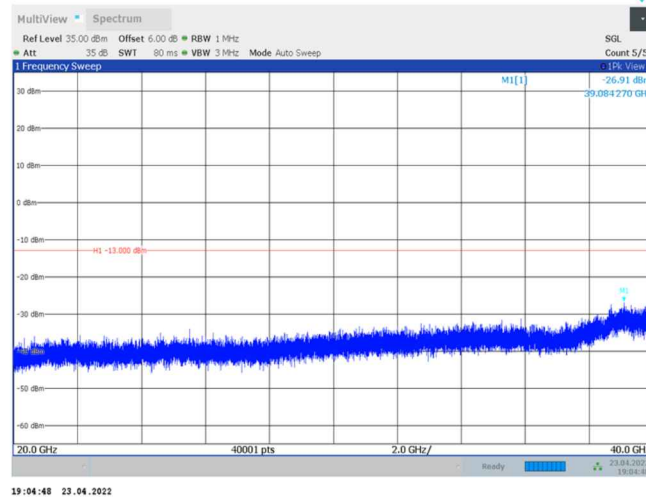
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Band42-20MHz-QPSK-42990-1RB#0-Range5:20000~40000MHz



19:04:48 23.04.2022



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Field Strength of Spurious Radiation

Test Band = LTE Band 42 3450-3550_ TM1
Test Channel = Low Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	8280.1042	42.57	-44.49	36.59	-60.59	-13.00	47.59	Horizontal
2	10039.6042	40.29	-41.70	38.54	-58.13	-13.00	45.13	Horizontal
3	11143.6042	39.27	-40.04	39.37	-56.66	-13.00	43.66	Horizontal
4	12430.6458	37.84	-38.46	38.94	-56.94	-13.00	43.94	Horizontal
5	13905.5208	38.36	-38.38	40.68	-54.60	-13.00	41.60	Horizontal
6	15108.7083	38.21	-38.22	39.89	-55.38	-13.00	42.38	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7433.4167	44.04	-45.74	36.64	-60.32	-13.00	47.32	Vertical
2	8707.0417	41.60	-43.70	37.19	-60.17	-13.00	47.17	Vertical
3	9574.8125	40.72	-41.96	38.12	-58.38	-13.00	45.38	Vertical
4	10458.3958	39.74	-40.85	38.91	-57.46	-13.00	44.46	Vertical
5	11371.6875	39.12	-39.92	39.33	-56.73	-13.00	43.73	Vertical
6	13742.6042	37.71	-38.19	40.31	-55.43	-13.00	42.43	Vertical



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Test Band = LTE Band 42 3450-3550_ TM1
Test Channel = Mid Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7838.3125	43.60	-44.93	36.39	-60.19	-13.00	47.19	Horizontal
2	8809.5833	42.09	-43.83	37.33	-59.67	-13.00	46.67	Horizontal
3	9823.5	40.11	-41.99	38.34	-58.79	-13.00	45.79	Horizontal
4	10755	39.45	-40.61	39.18	-57.24	-13.00	44.24	Horizontal
5	12451.7292	37.85	-38.57	38.93	-57.05	-13.00	44.05	Horizontal
6	14827.4375	37.34	-37.78	40.24	-55.46	-13.00	42.46	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7417.6042	44.81	-45.66	36.60	-59.50	-13.00	46.50	Vertical
2	8420.0208	42.95	-44.22	36.79	-59.75	-13.00	46.75	Vertical
3	9309.3542	42.26	-42.93	37.88	-58.05	-13.00	45.05	Vertical
4	10360.1667	39.76	-41.18	38.82	-57.86	-13.00	44.86	Vertical
5	12055.4583	39.30	-39.03	39.17	-55.82	-13.00	42.82	Vertical
6	14609.4167	37.69	-38.13	40.41	-55.29	-13.00	42.29	Vertical



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Test Band = LTE Band 42 3450-3550_ TM1
Test Channel = High Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7337.1042	44.41	-45.84	36.41	-60.28	-13.00	47.28	Horizontal
2	8745.375	42.14	-43.77	37.24	-59.64	-13.00	46.64	Horizontal
3	9922.2083	40.81	-41.79	38.43	-57.81	-13.00	44.81	Horizontal
4	11149.8333	38.77	-40.03	39.37	-57.15	-13.00	44.15	Horizontal
5	12031.5	38.47	-38.82	39.18	-56.43	-13.00	43.43	Horizontal
6	14771.8542	37.49	-37.72	40.28	-55.20	-13.00	42.20	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7392.2083	43.98	-45.60	36.54	-60.33	-13.00	47.33	Vertical
2	9332.3542	42.07	-42.90	37.90	-58.19	-13.00	45.19	Vertical
3	10807.7083	39.72	-40.43	39.23	-56.74	-13.00	43.74	Vertical
4	12041.5625	38.22	-38.91	39.18	-56.77	-13.00	43.77	Vertical
5	13901.2083	37.83	-38.35	40.67	-55.11	-13.00	42.11	Vertical
6	15662.625	37.16	-37.88	38.84	-57.14	-13.00	44.14	Vertical



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Test on the worst case for SEWM2304000122RG01:

Test Band = LTE Band 42 3450M-3550M_ 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	6962.3958	46.47	-42.32	36.12	-54.99	-13.00	41.99	296	162	Horizontal
2	7980.625	38.90	-40.57	37.46	-59.47	-13.00	46.47	265	359	Horizontal
3	12095.2292	34.88	-35.10	38.70	-56.79	-13.00	43.79	284	359	Horizontal
4	10353.27	33.92	-36.67	38.89	-59.12	-13.00	46.12	142	53	Horizontal
5	13804.36	31.96	-35.30	40.08	-58.52	-13.00	45.52	263	328	Horizontal
6	17255.45	31.03	-31.86	39.62	-56.47	-13.00	43.47	228	162	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	6961.9167	43.27	-42.32	36.12	-58.19	-13.00	45.19	196	17	Vertical
2	8925.0625	38.36	-38.87	38.52	-57.26	-13.00	44.26	265	277	Vertical
3	16198.3333	32.45	-32.00	38.04	-56.77	-13.00	43.77	284	92	Vertical
4	10353.27	34.53	-36.67	38.89	-58.51	-13.00	45.51	142	17	Vertical
5	13804.36	32.42	-35.30	40.08	-58.06	-13.00	45.06	263	203	Vertical
6	17255.45	30.47	-31.86	39.62	-57.03	-13.00	44.03	228	360	Vertical



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Test Band = LTE Band 42 3450M-3550M_ 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	8029.0208	39.10	-40.46	37.53	-59.09	-13.00	46.09	296	145	Horizontal
2	12969.7083	33.99	-34.90	39.57	-56.60	-13.00	43.60	265	359	Horizontal
3	6982.18	41.52	-42.38	36.17	-59.95	-13.00	46.95	284	184	Horizontal
4	10473.27	33.44	-36.47	39.02	-59.27	-13.00	46.27	142	124	Horizontal
5	13964.36	31.87	-34.95	40.18	-58.16	-13.00	45.16	263	258	Horizontal
6	17455.45	30.31	-31.84	40.42	-56.36	-13.00	43.36	228	296	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	8941.8333	38.02	-38.82	38.54	-57.53	-13.00	44.53	196	18	Vertical
2	12571.5208	33.57	-34.73	39.17	-57.25	-13.00	44.25	265	37	Vertical
3	6982.18	41.52	-42.38	36.17	-59.95	-13.00	46.95	284	92	Vertical
4	10473.27	33.64	-36.47	39.02	-59.07	-13.00	46.07	142	360	Vertical
5	13964.36	32.61	-34.95	40.18	-57.42	-13.00	44.42	256	203	Vertical
6	17455.45	30.53	-31.84	40.42	-56.14	-13.00	43.14	223	360	Vertical



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Test Band = LTE Band 42 3450M-3550M_ 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	8929.375	38.26	-38.86	38.52	-57.34	-13.00	44.34	265	199	Horizontal
2	13089.5	33.88	-34.65	39.65	-56.37	-13.00	43.37	284	360	Horizontal
3	7062.18	41.65	-42.30	36.24	-59.68	-13.00	46.68	142	162	Horizontal
4	10593.27	33.14	-36.13	39.15	-59.10	-13.00	46.10	263	71	Horizontal
5	14124.36	32.10	-34.81	40.08	-57.89	-13.00	44.89	225	143	Horizontal
6	17655.45	30.53	-31.42	41.22	-54.93	-13.00	41.93	187	252	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	8933.2083	38.39	-38.85	38.53	-57.19	-13.00	44.19	196	222	Vertical
2	12096.1875	34.11	-35.10	38.70	-57.55	-13.00	44.55	265	56	Vertical
3	7062.18	39.51	-42.30	36.24	-61.82	-13.00	48.82	284	3	Vertical
4	10593.27	32.82	-36.13	39.15	-59.42	-13.00	46.42	142	360	Vertical
5	14124.36	32.72	-34.81	40.08	-57.27	-13.00	44.27	263	360	Vertical
6	17655.45	31.19	-31.42	41.22	-54.27	-13.00	41.27	224	92	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
Band42	20MHz	QPSK	42590	100RB#0	VL	NT	-0.40	-0.000114	PASS
Band42	20MHz	QPSK	42590	100RB#0	VN	NT	1.10	0.000314	PASS
Band42	20MHz	QPSK	42590	100RB#0	VH	NT	0.10	0.000029	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band42	20MHz	QPSK	42590	100RB#0	NV	-30	-0.40	-0.000114	PASS
Band42	20MHz	QPSK	42590	100RB#0	NV	-20	-1.20	-0.000343	PASS
Band42	20MHz	QPSK	42590	100RB#0	NV	0	0.90	0.000257	PASS
Band42	20MHz	QPSK	42590	100RB#0	NV	10	-1.10	-0.000314	PASS
Band42	20MHz	QPSK	42590	100RB#0	NV	20	1.00	0.000286	PASS
Band42	20MHz	QPSK	42590	100RB#0	NV	30	2.50	0.000714	PASS
Band42	20MHz	QPSK	42590	100RB#0	NV	40	1.70	0.000486	PASS
Band42	20MHz	QPSK	42590	100RB#0	NV	50	1.10	0.000314	PASS

---End of Attachment---



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