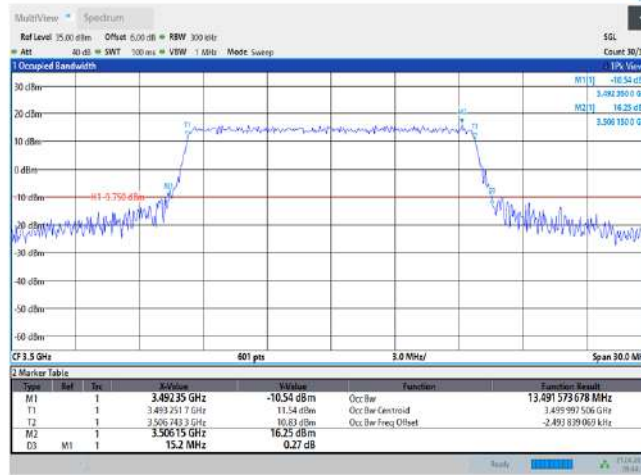


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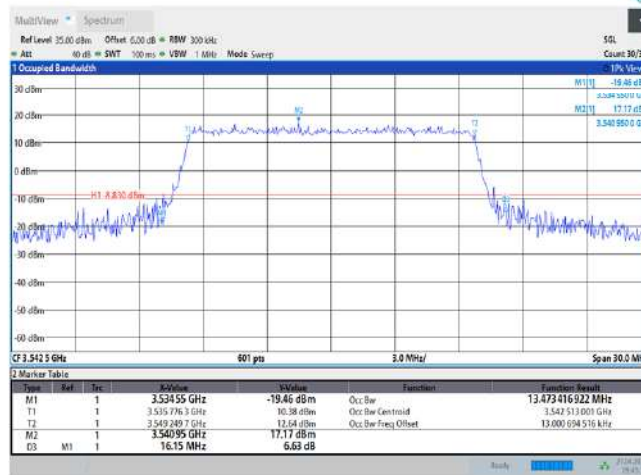
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Band42-15MHz-16QAM-42590-75RB#0



09:44:13 21.04.2022

Band42-15MHz-16QAM-43015-75RB#0



09:45:27 21.04.2022



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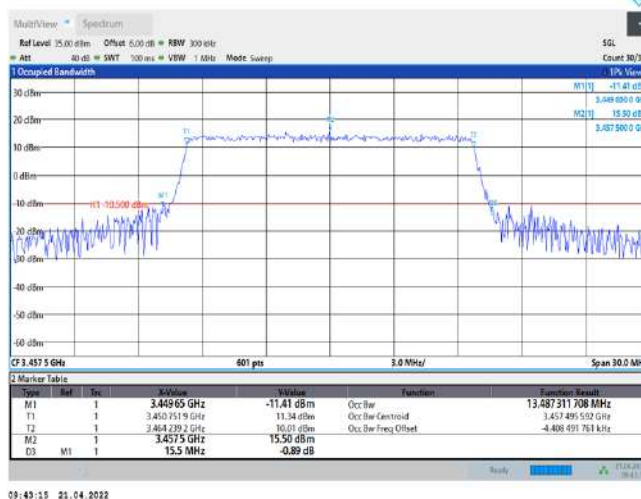
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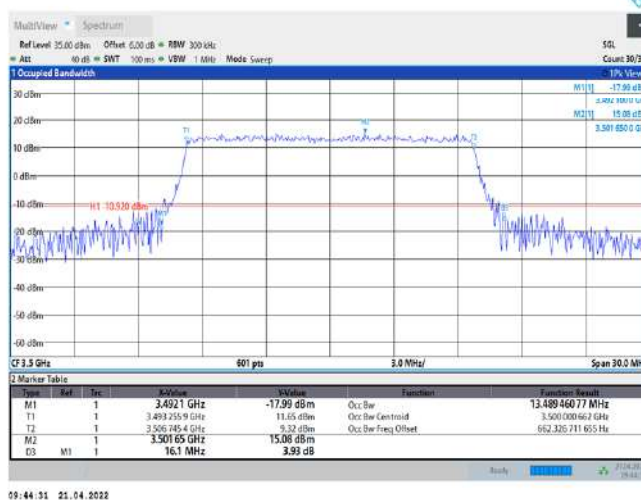
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Band42-15MHz-64QAM-42165-75RB#0



Band42-15MHz-64QAM-42590-75RB#0



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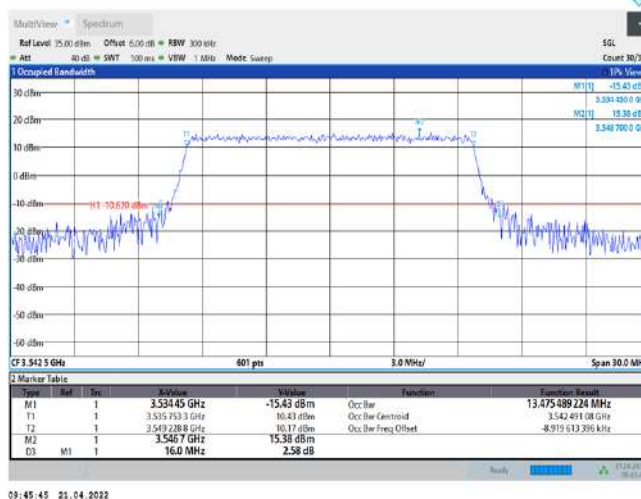
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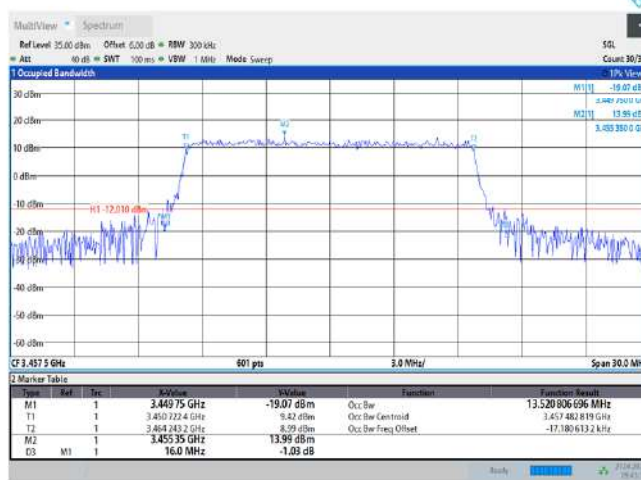
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Band42-15MHz-256QAM-42165-75RB#0



09:43:33 21.04.2022



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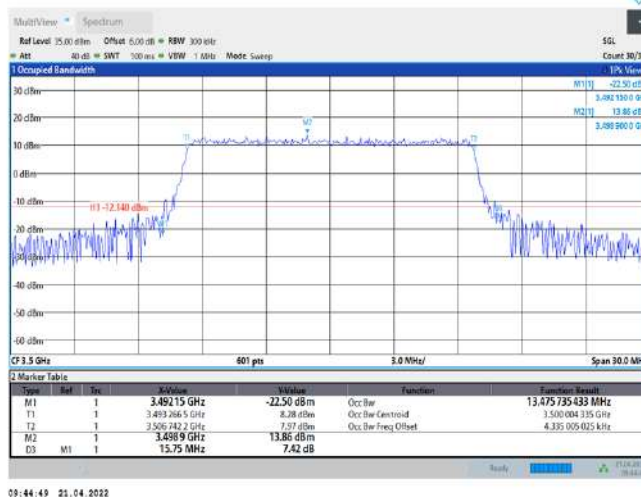
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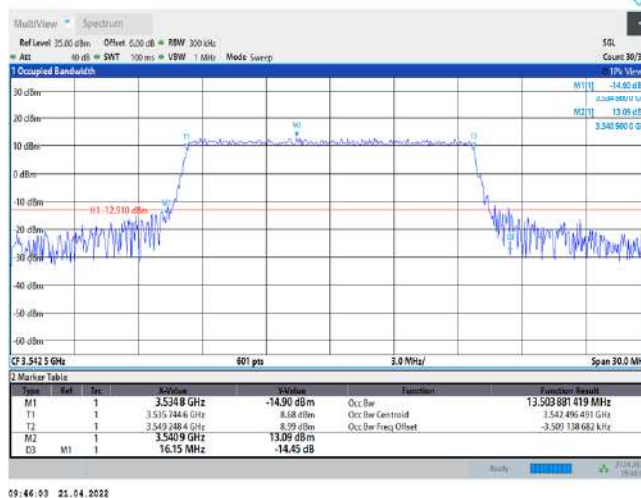
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Band42-15MHz-256QAM-42590-75RB#0



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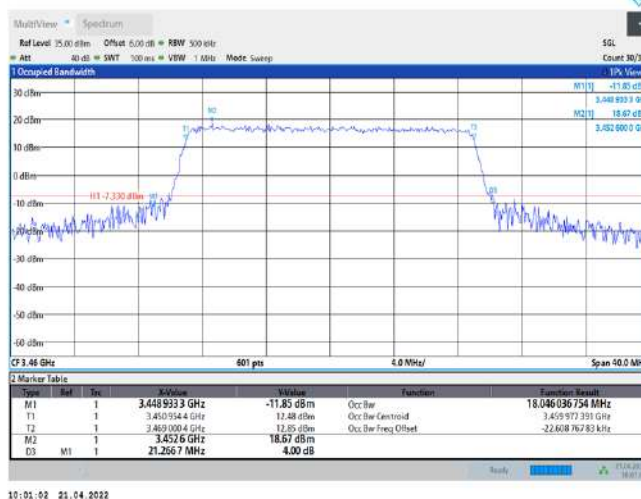
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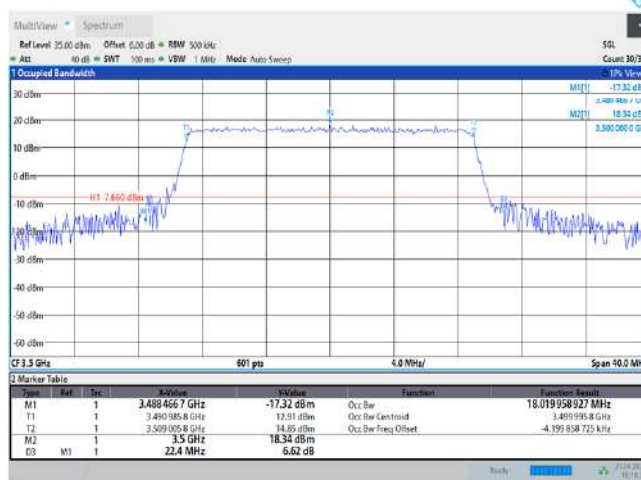
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Band42-20MHz-QPSK-42190-100RB#0



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Band42-20MHz-QPSK-42590-100RB#0



10:18:24 21.04.2022



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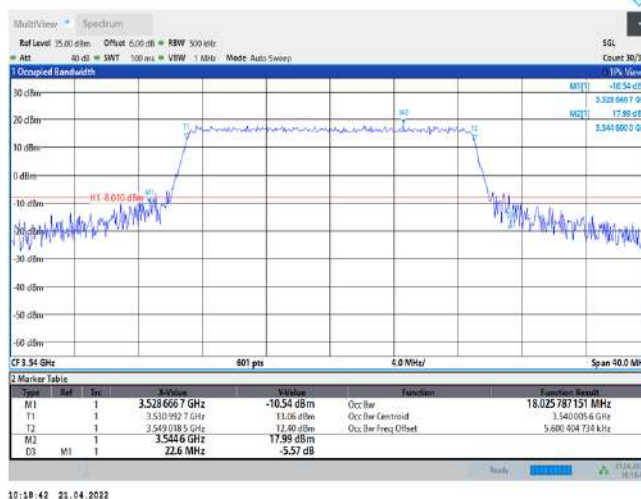
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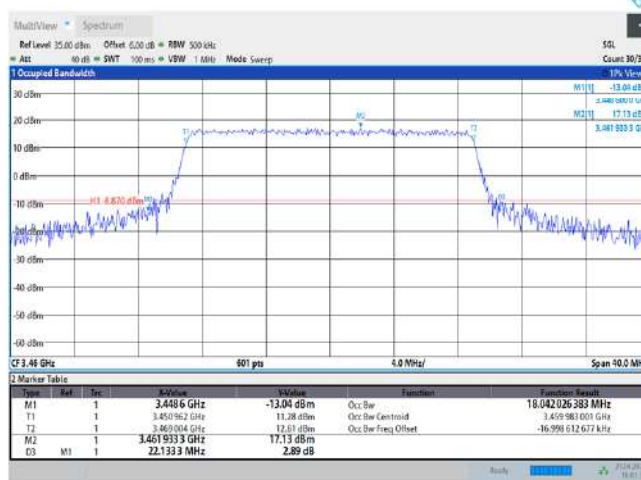
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Band42-20MHz-16QAM-42190-100RB#0



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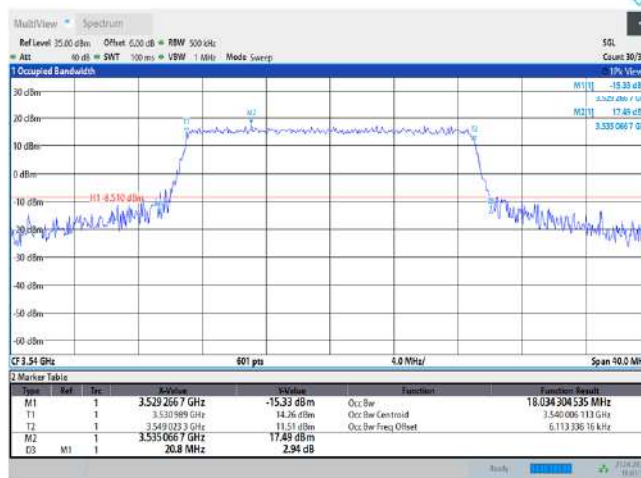
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Band42-20MHz-16QAM-42990-100RB#0



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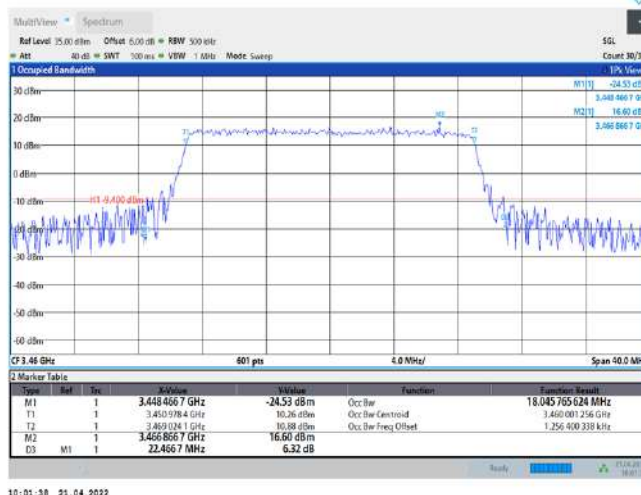
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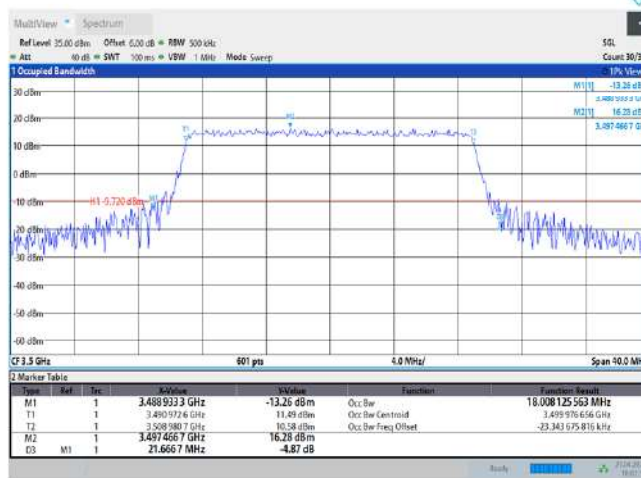
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Band42-20MHz-64QAM-42190-100RB#0



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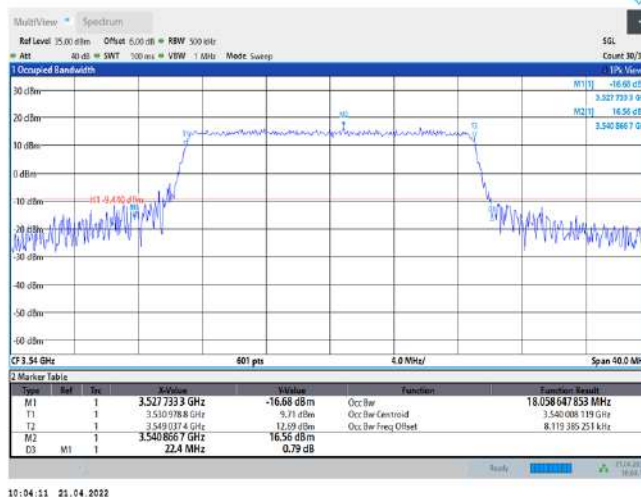
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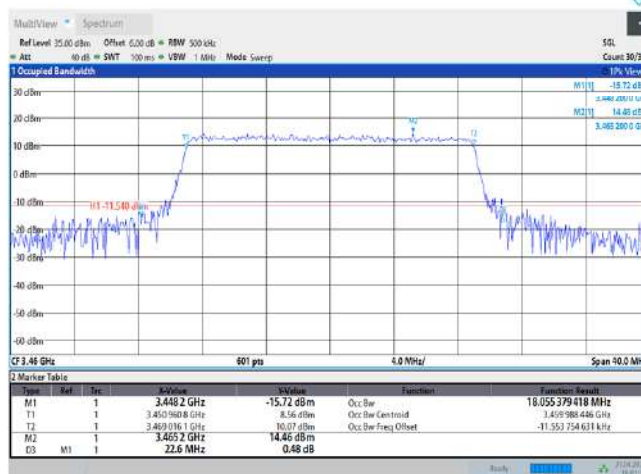
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Band42-20MHz-64QAM-42990-100RB#0



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Band42-20MHz-256QAM-42190-100RB#0



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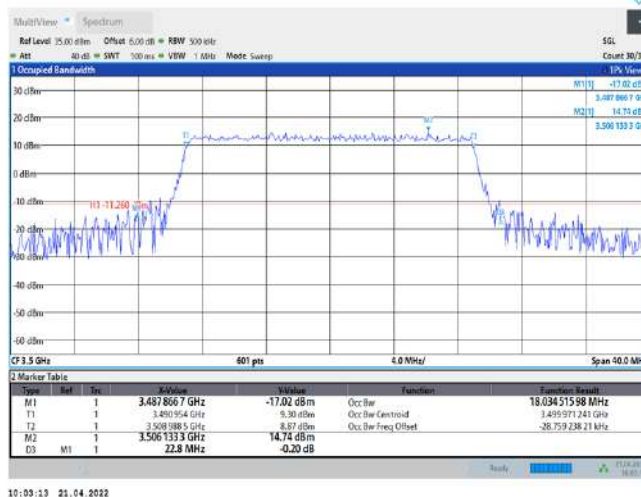
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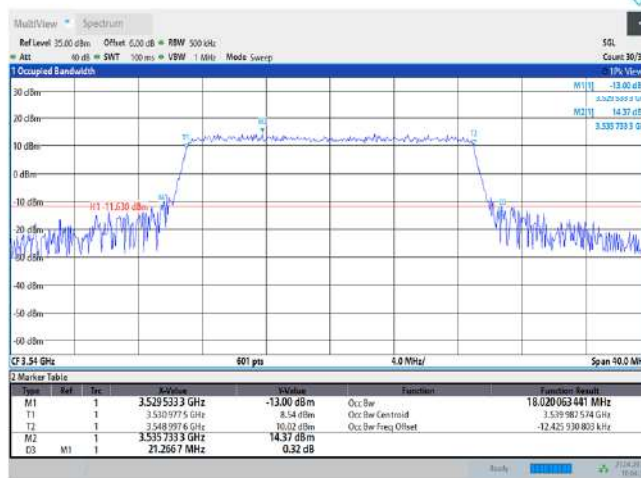
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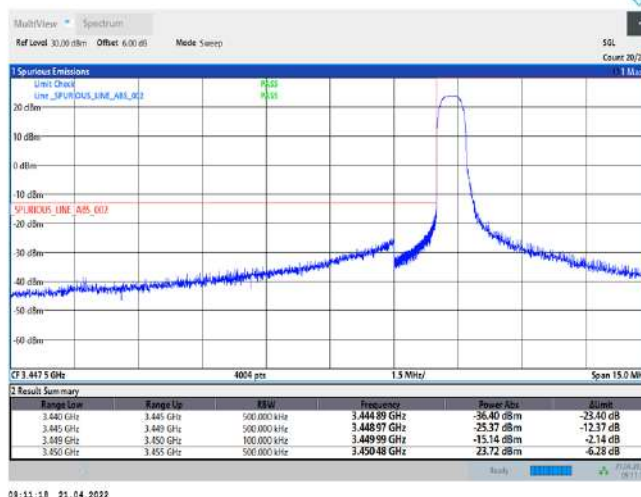
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Test Graphs

Band42-5MHz-QPSK-42115-1RB#0



Band42-5MHz-QPSK-42115-25RB#0



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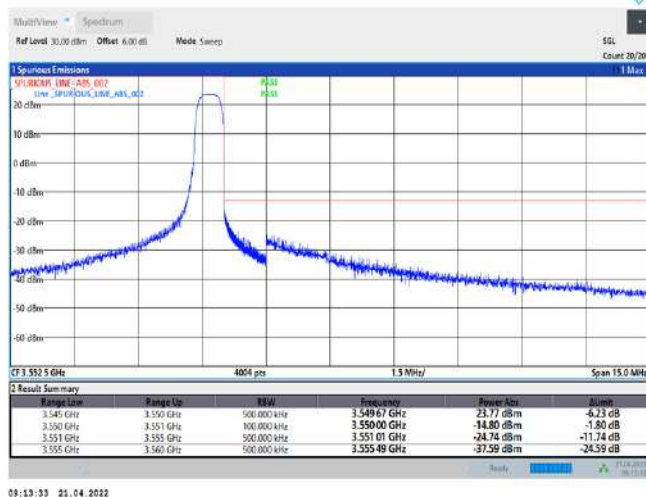
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Band42-5MHz-QPSK-43065-1RB#24



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Band42-5MHz-QPSK-43065-25RB#0



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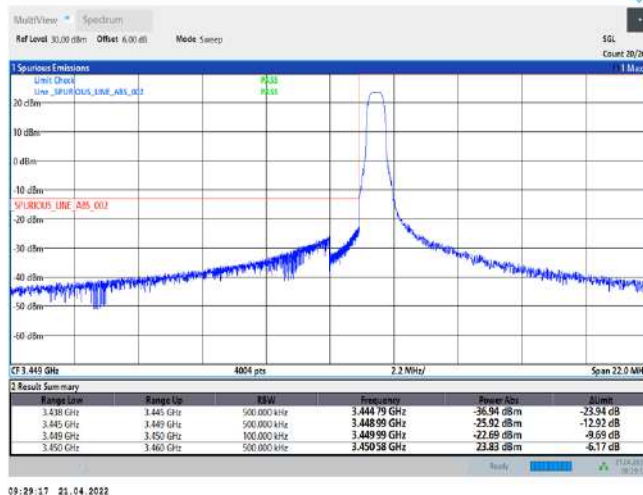
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Band42-10MHz-QPSK-42140-1RB#0



Band42-10MHz-QPSK-42140-50RB#0



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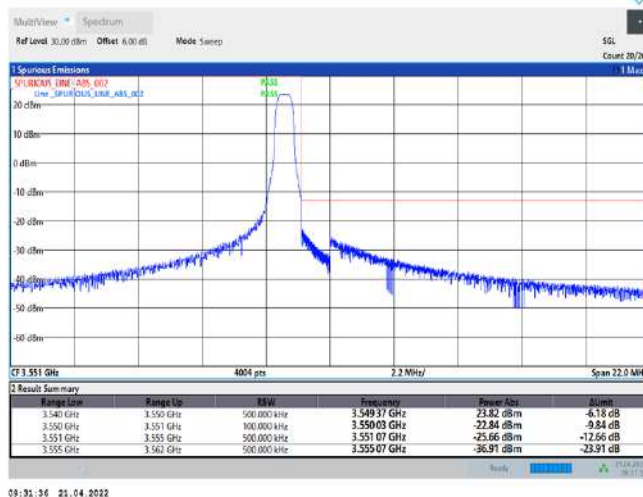
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Band42-10MHz-QPSK-43040-1RB#49



Band42-10MHz-QPSK-43040-50RB#0



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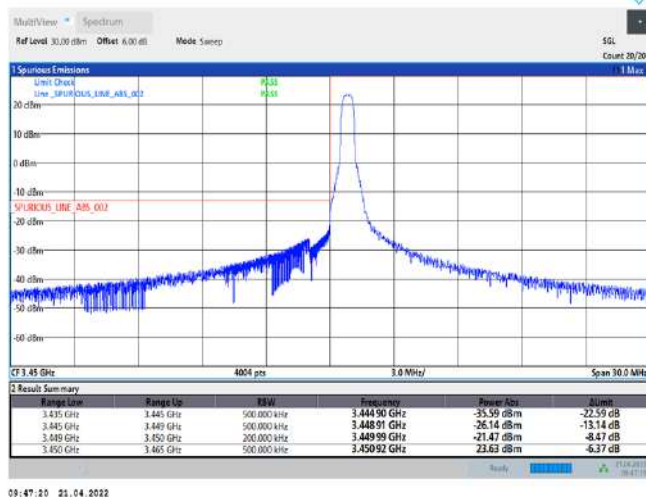
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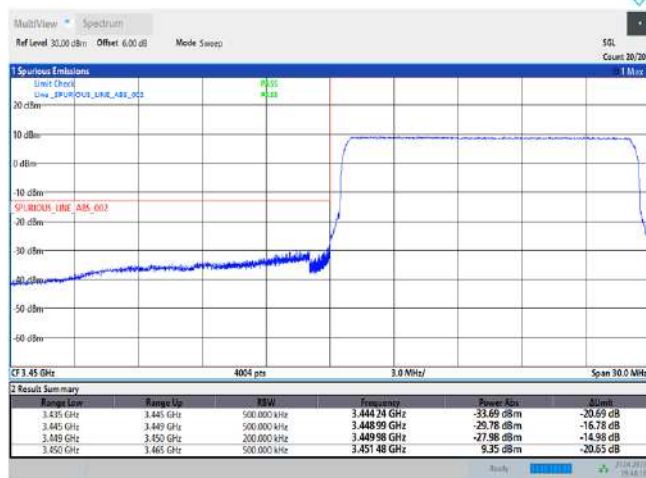
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Band42-15MHz-QPSK-42165-1RB#0



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



09:48:10 21.04.2022



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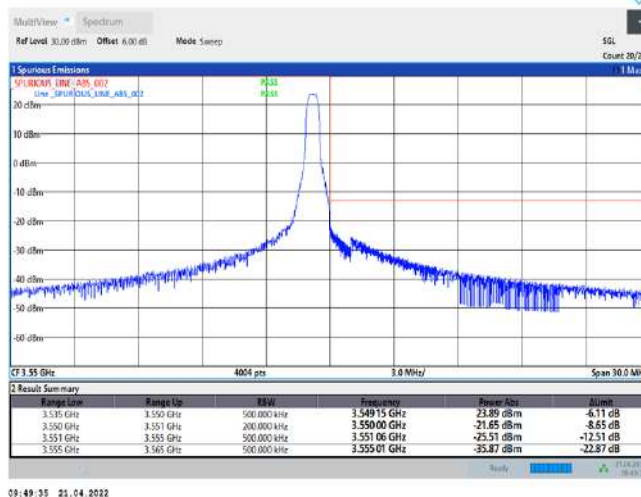
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Band42-15MHz-QPSK-43015-1RB#74



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



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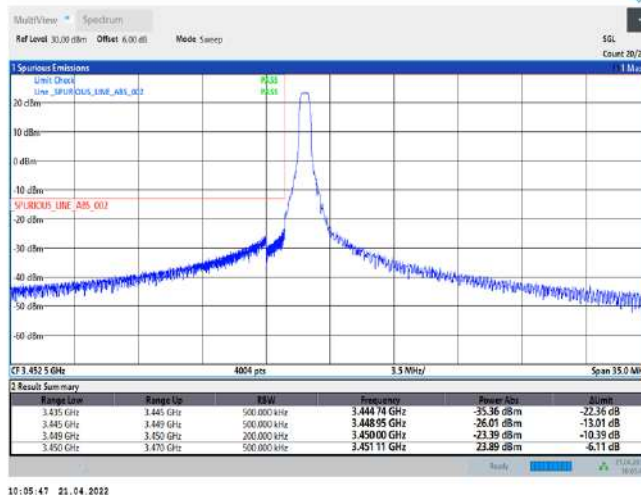
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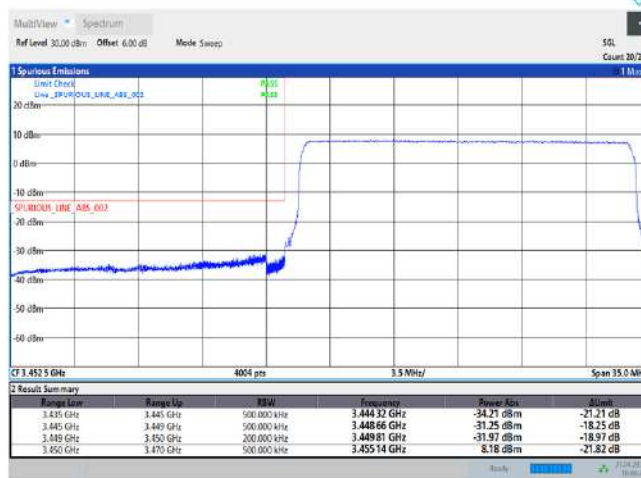
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Band42-20MHz-QPSK-42190-1RB#0



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



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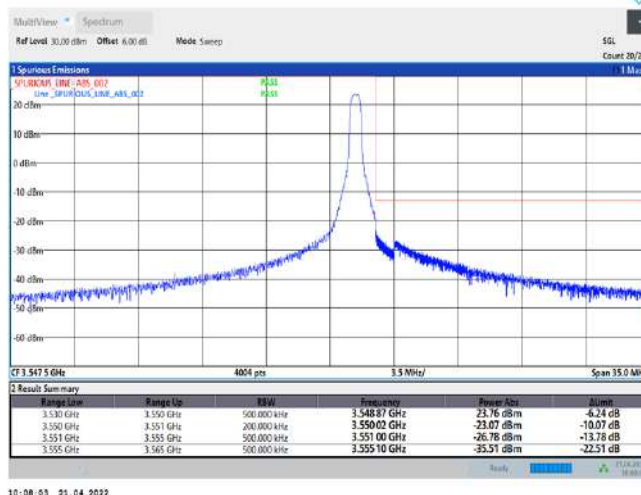
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Band42-20MHz-QPSK-42990-1RB#99



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



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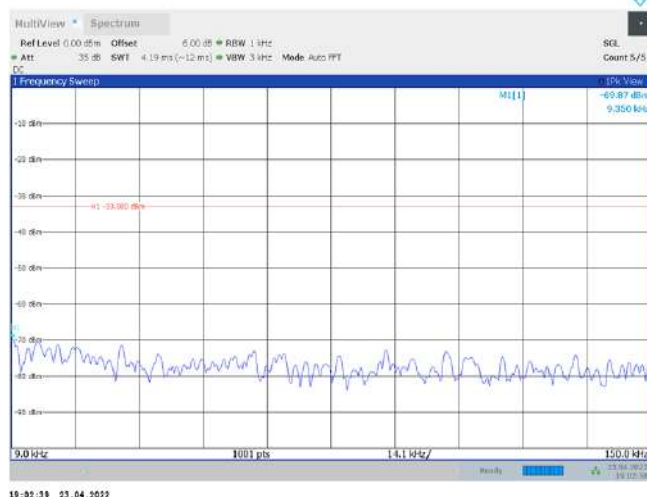
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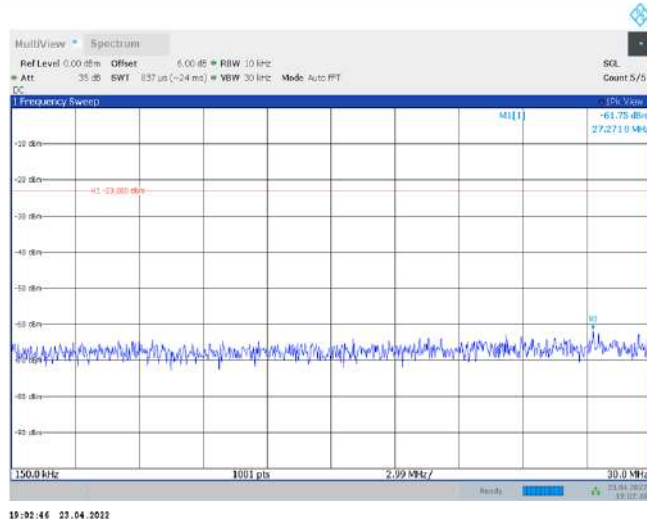
Conducted Spurious Emission

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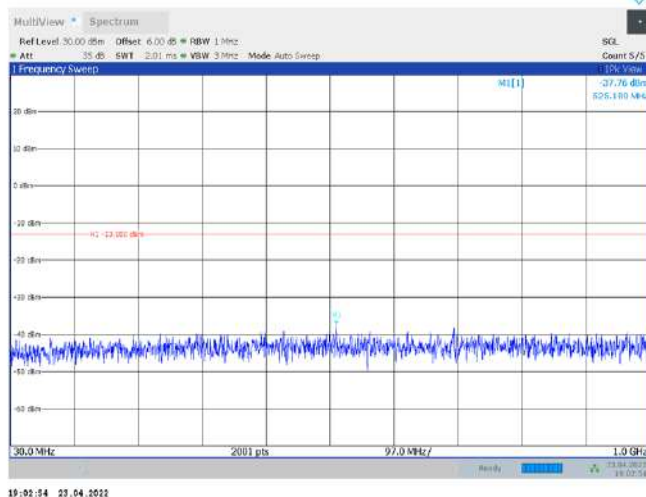
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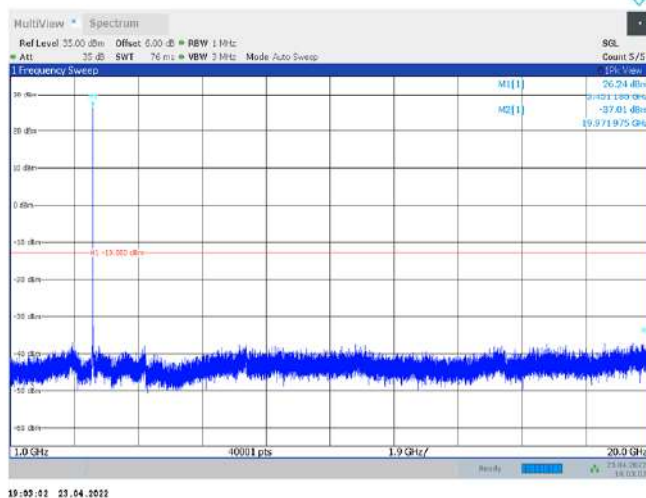
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Band42-20MHz-QPSK-42190-1RB#0-Range4:1000~20000MHz



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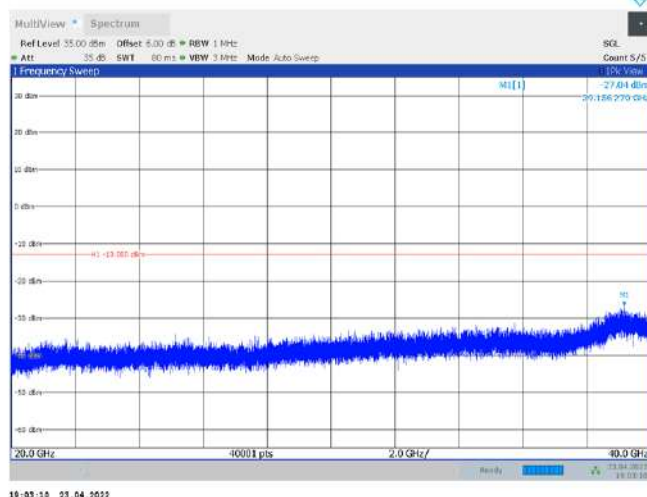
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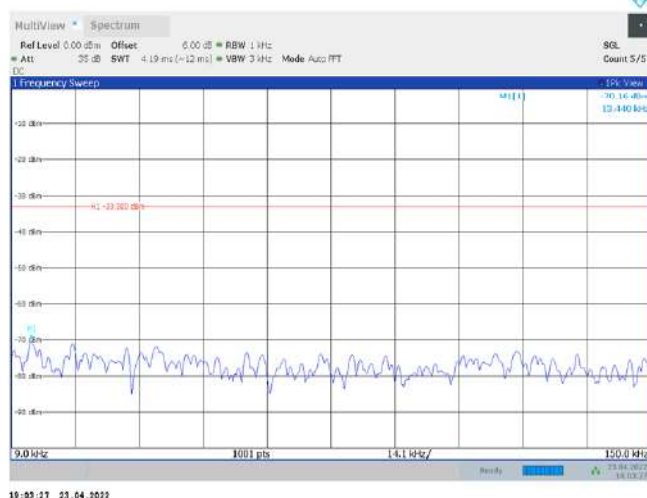
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Band42-20MHz-QPSK-42190-1RB#0-Range5:20000~40000MHz



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



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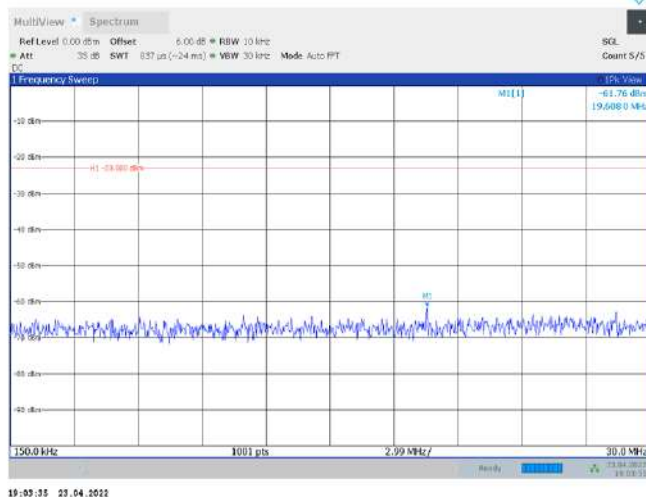
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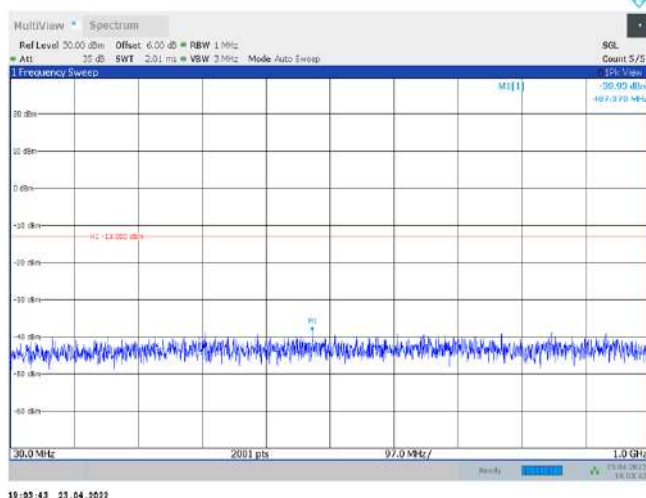
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Band42-20MHz-QPSK-42590-1RB#0-Range3:30~1000MHz



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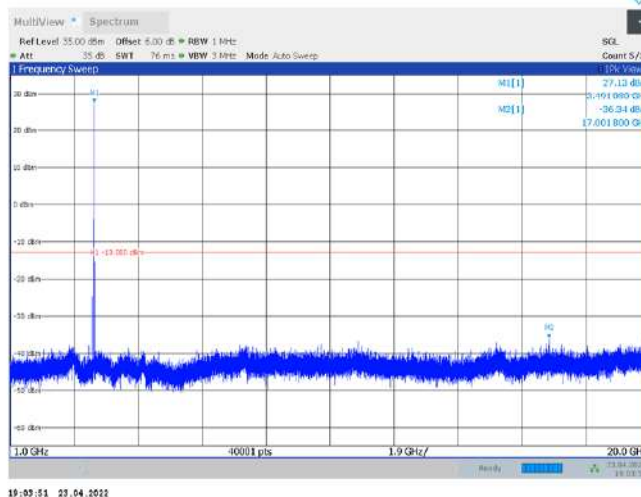
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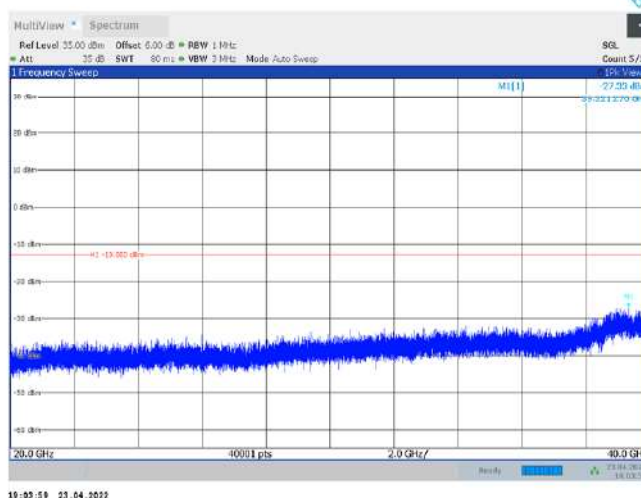
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Band42-20MHz-QPSK-42590-1RB#0-Range5:20000~40000MHz



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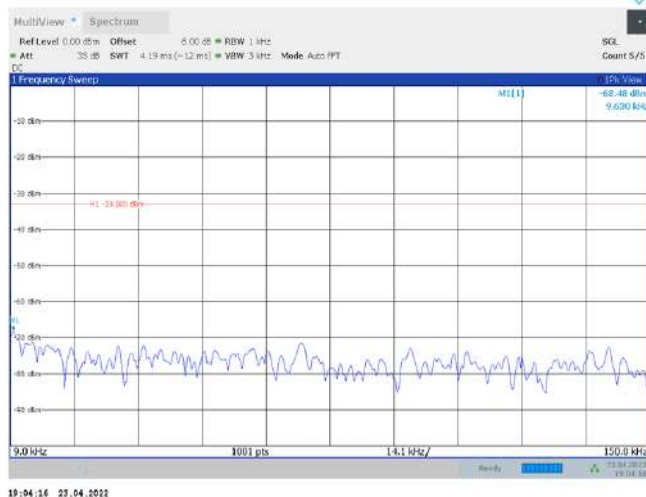
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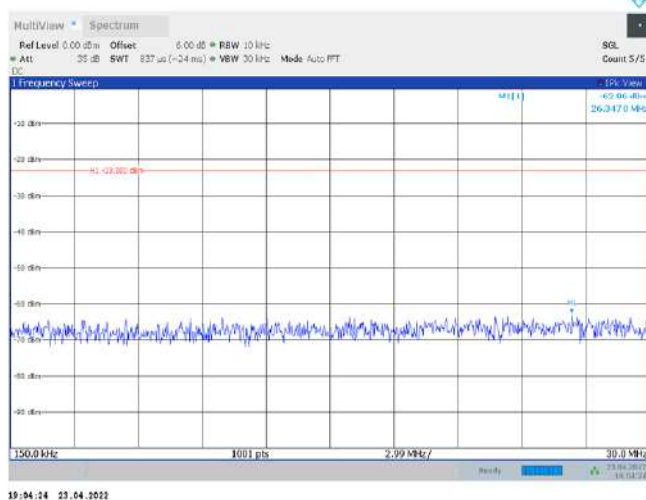
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Band42-20MHz-QPSK-42990-1RB#0-Range1:0.009~0.15MHz



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



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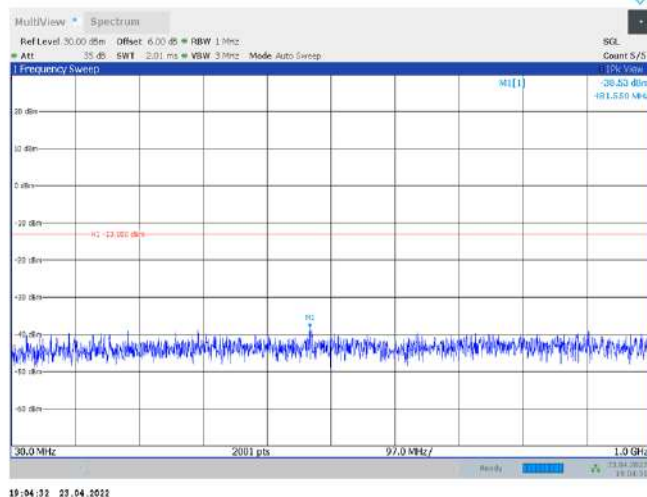
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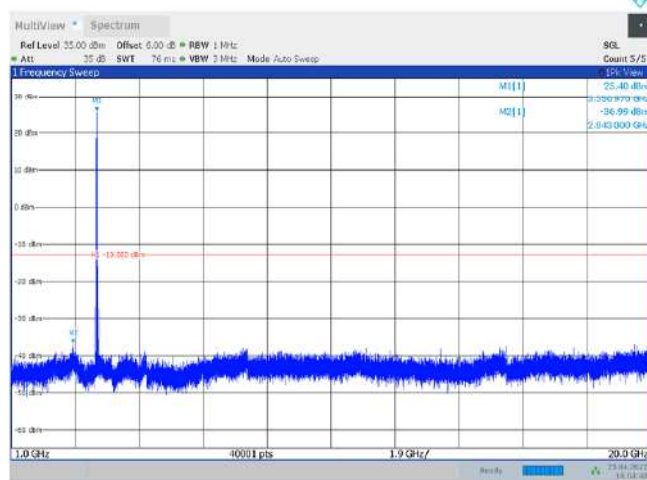
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Band42-20MHz-QPSK-42990-1RB#0-Range3:30~1000MHz



19:04:32 23.04.2022

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



19:04:40 23.04.2022



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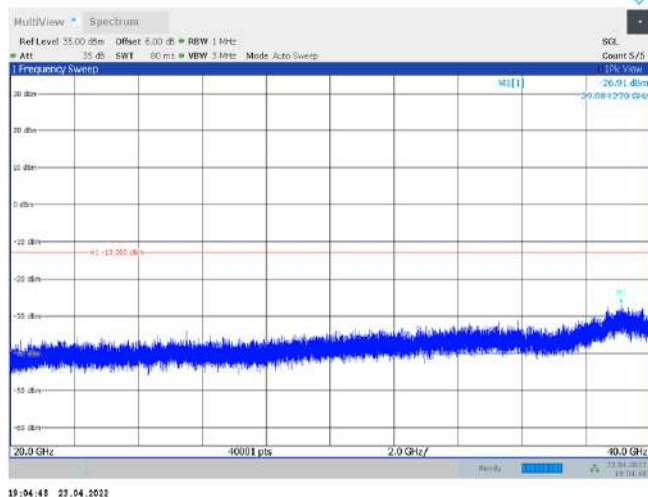
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Band42-20MHz-QPSK-42990-1RB#0-Range5:20000~40000MHz



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Field Strength of Spurious Radiation

Test Band = LTE Band 42 3450M-3550M_ TM1
Test Channel = Low Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5443.1667	53.90	-105.59	-51.69	-13.00	38.69	263	0	Horizontal
2	6902.18	48.48	-101.40	-52.92	-13.00	39.92	251	3	Horizontal
3	10353.27	42.95	-93.04	-50.09	-13.00	37.09	147	120	Horizontal
4	12579.6667	47.14	-90.75	-43.61	-13.00	30.61	185	41	Horizontal
5	13804.36	43.95	-90.48	-46.53	-13.00	33.53	265	107	Horizontal
6	17255.45	39.81	-87.50	-47.69	-13.00	34.69	241	1	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6280.8333	53.80	-102.89	-49.09	-13.00	36.09	263	0	Vertical
2	6902.18	50.54	-101.40	-50.86	-13.00	37.86	251	321	Vertical
3	9344.5	50.05	-94.76	-44.71	-13.00	31.71	174	121	Vertical
4	10353.27	42.50	-93.04	-50.54	-13.00	37.54	163	8	Vertical
5	13804.36	43.47	-90.48	-47.01	-13.00	34.01	284	321	Vertical
6	17255.45	40.07	-87.50	-47.43	-13.00	34.43	166	229	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]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5892.3333	53.88	-104.44	-50.56	-13.00	37.56	263	96	Horizontal
2	6982.18	48.10	-101.47	-53.37	-13.00	40.37	251	1	Horizontal
3	9261.6667	49.17	-95.01	-45.84	-13.00	32.84	174	0	Horizontal
4	10473.27	44.58	-92.71	-48.13	-13.00	35.13	186	28	Horizontal
5	13964.36	42.60	-90.03	-47.43	-13.00	34.43	254	108	Horizontal
6	17455.45	39.49	-86.67	-47.18	-13.00	34.18	114	240	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6495.5	53.00	-102.66	-49.66	-13.00	36.66	214	357	Vertical
2	6982.18	48.20	-101.47	-53.27	-13.00	40.27	186	1	Vertical
3	8716.8333	50.37	-96.17	-45.80	-13.00	32.80	263	83	Vertical
4	10473.27	43.18	-92.71	-49.53	-13.00	36.53	254	136	Vertical
5	13964.36	42.06	-90.03	-47.97	-13.00	34.97	147	43	Vertical
6	17455.45	39.35	-86.67	-47.32	-13.00	34.32	187	203	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]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6272.6667	52.66	-102.88	-50.22	-13.00	37.22	263	0	Horizontal
2	7062.18	47.88	-101.33	-53.45	-13.00	40.45	251	348	Horizontal
3	9226.6667	49.86	-94.95	-45.09	-13.00	32.09	174	0	Horizontal
4	10593.27	44.58	-92.24	-47.66	-13.00	34.66	186	0	Horizontal
5	14124.36	43.13	-90.00	-46.87	-13.00	33.87	265	58	Horizontal
6	17655.45	40.96	-85.46	-44.50	-13.00	31.50	241	84	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5872.5	52.80	-104.49	-51.69	-13.00	38.69	251	95	Vertical
2	7062.18	48.55	-101.33	-52.78	-13.00	39.78	175	69	Vertical
3	10593.27	44.02	-92.24	-48.22	-13.00	35.22	262	295	Vertical
4	11932.166	46.15	-91.65	-45.50	-13.00	32.50	222	121	Vertical
5	14124.36	43.05	-90.00	-46.95	-13.00	33.95	251	201	Vertical
6	17655.45	41.72	-85.46	-43.74	-13.00	30.74	144	57	Vertical



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Test on the worst case:

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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Report No.: SEWM2304000122RG01

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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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