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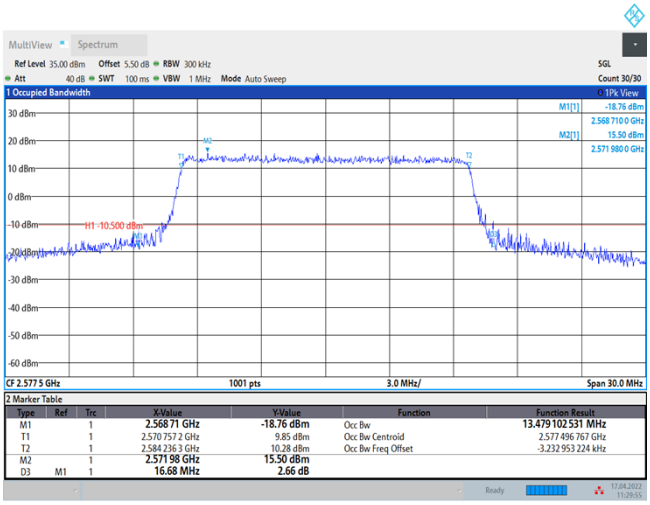

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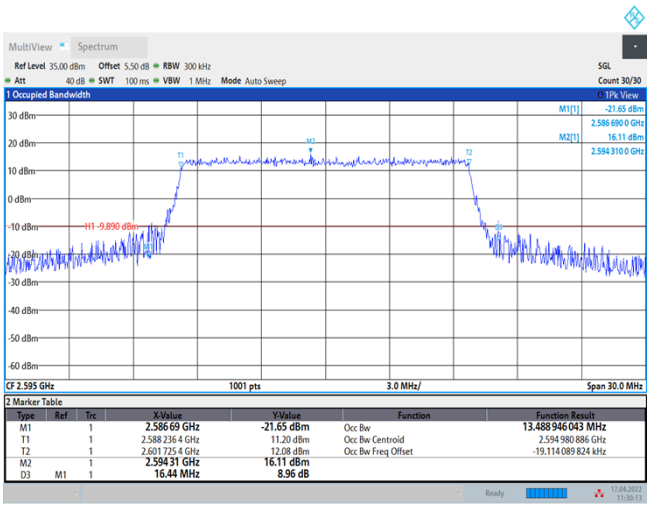

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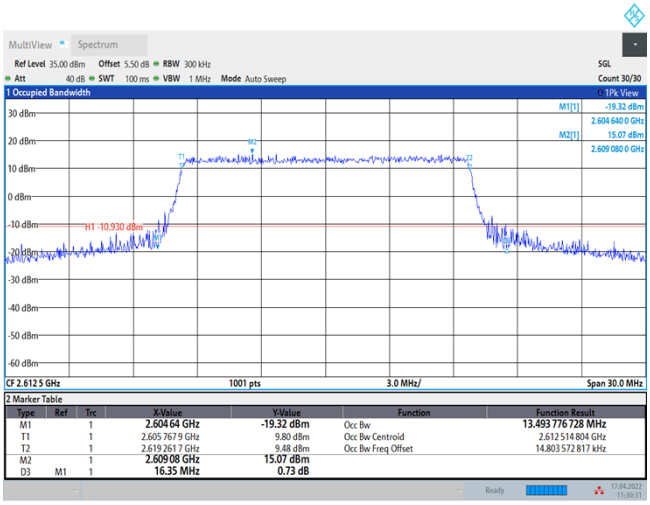
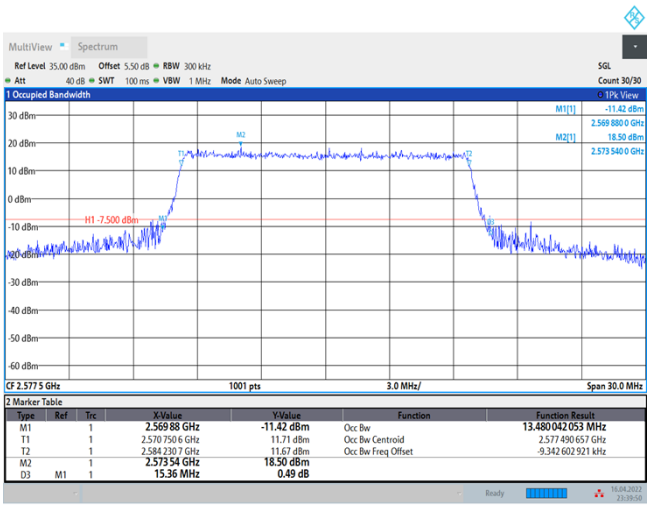
Band38-15MHz-QPSK-38175-75RB#0



Band38-15MHz-16QAM-37825-75RB#0



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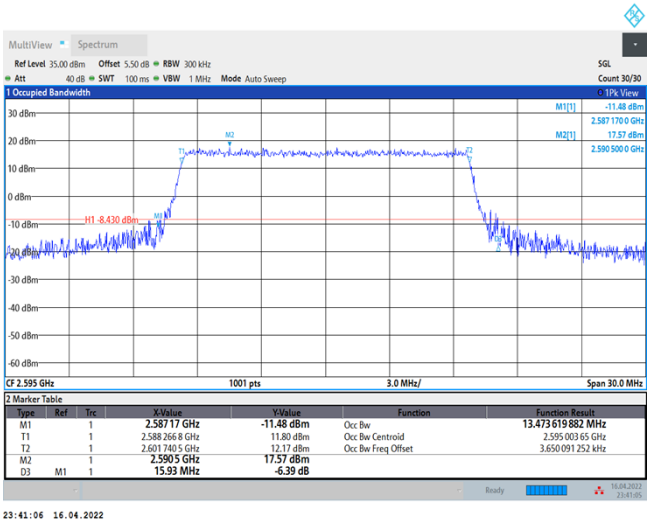
Band38-15MHz-16QAM-38000-75RB#0



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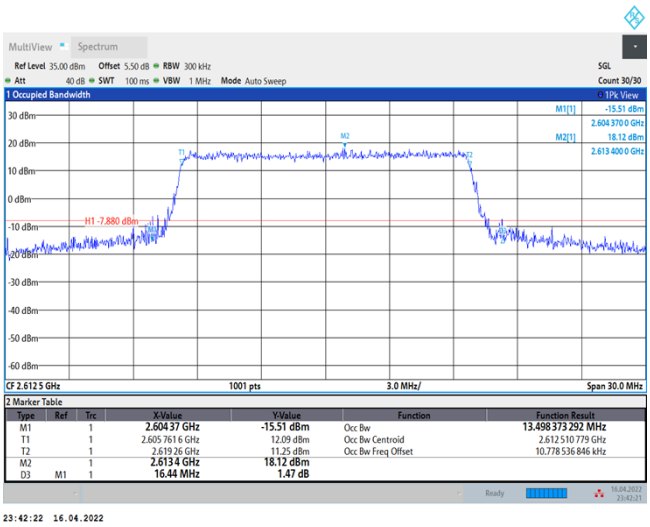

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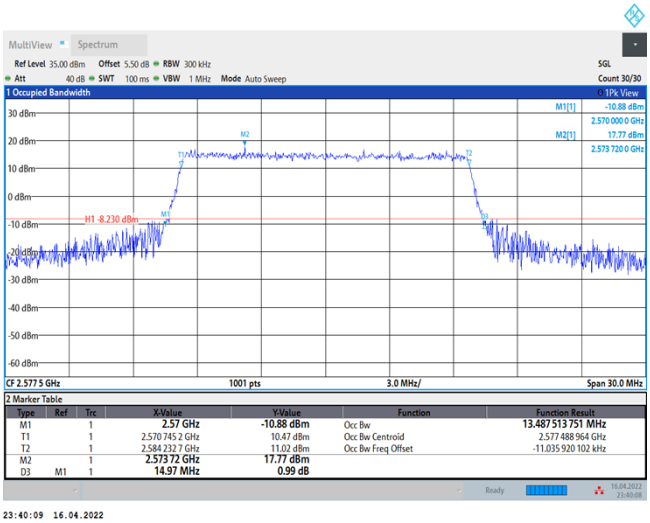
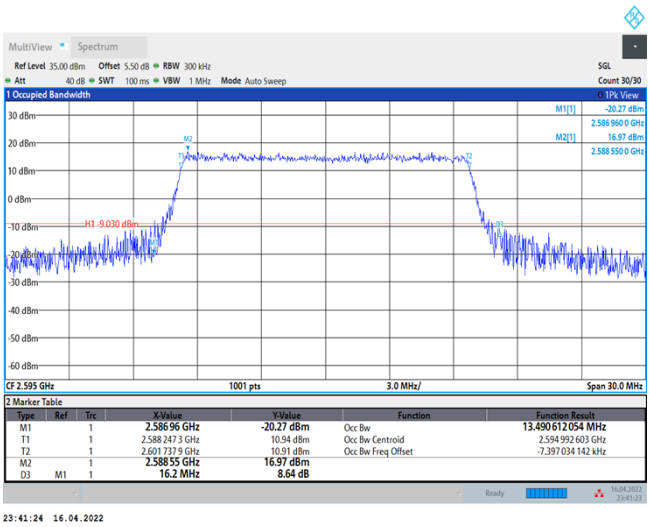
Band38-15MHz-64QAM-37825-75RB#0



Band38-15MHz-64QAM-38000-75RB#0



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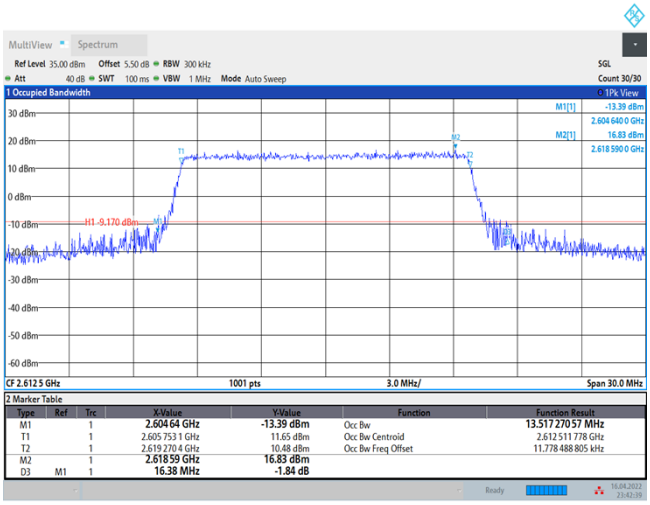
Band38-15MHz-64QAM-38175-75RB#0



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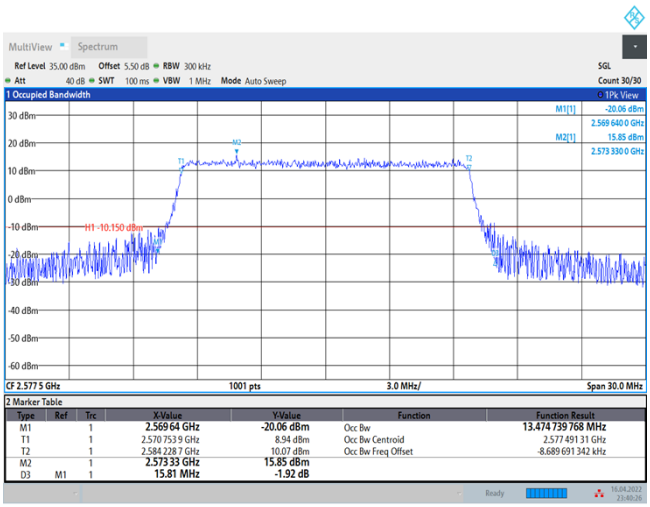
Band38-15MHz-256QAM-37825-75RB#0



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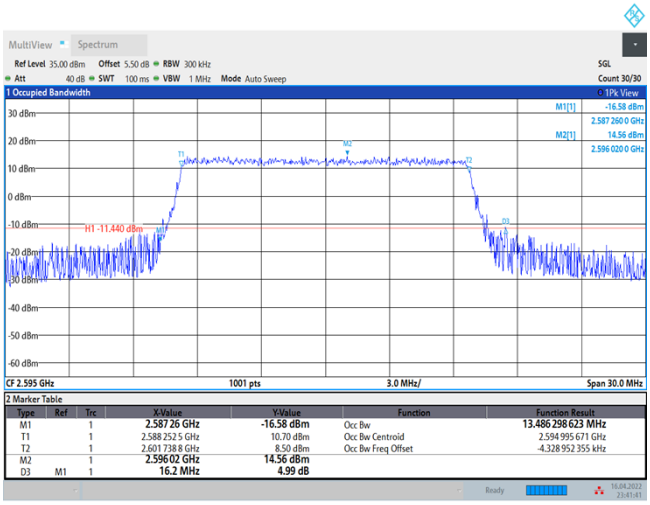
Band38-15MHz-256QAM-38000-75RB#0



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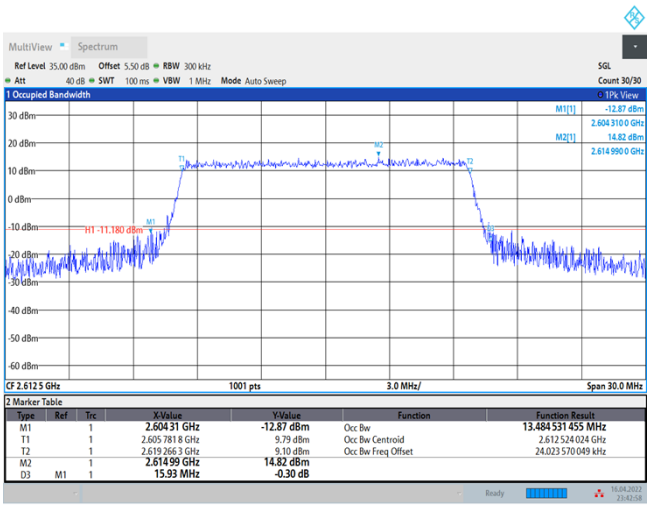
Band38-15MHz-256QAM-38175-75RB#0



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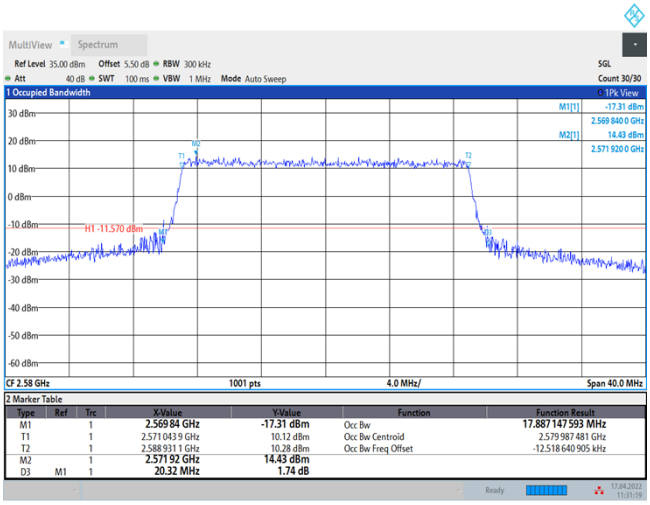
Band38-20MHz-QPSK-37850-100RB#0



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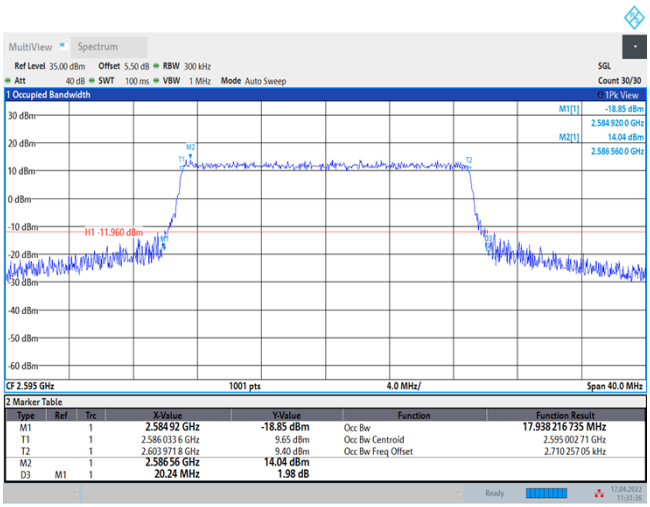
Band38-20MHz-QPSK-38000-100RB#0



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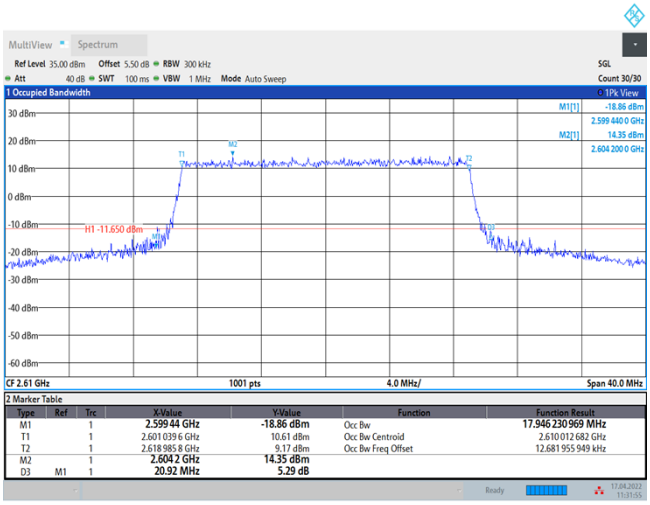
Band38-20MHz-QPSK-38150-100RB#0



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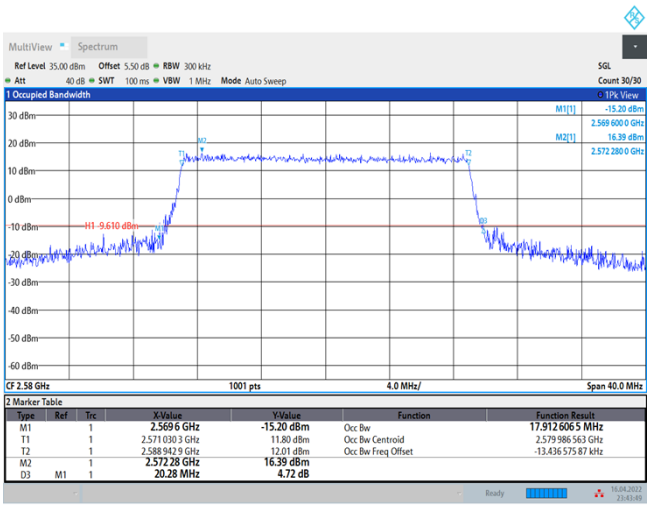
Band38-20MHz-16QAM-37850-100RB#0



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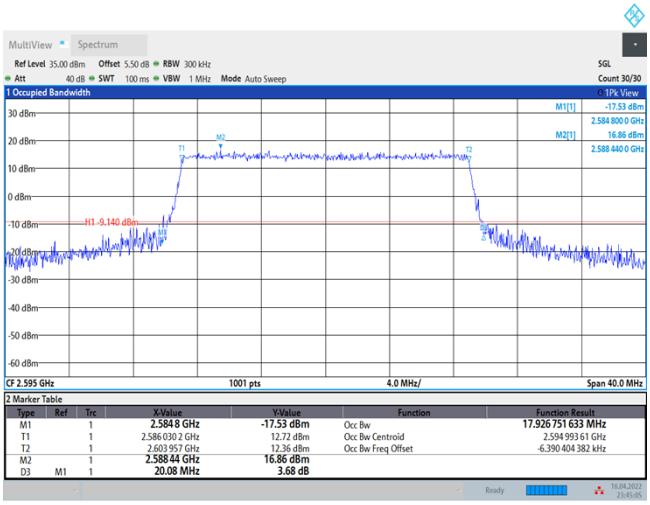
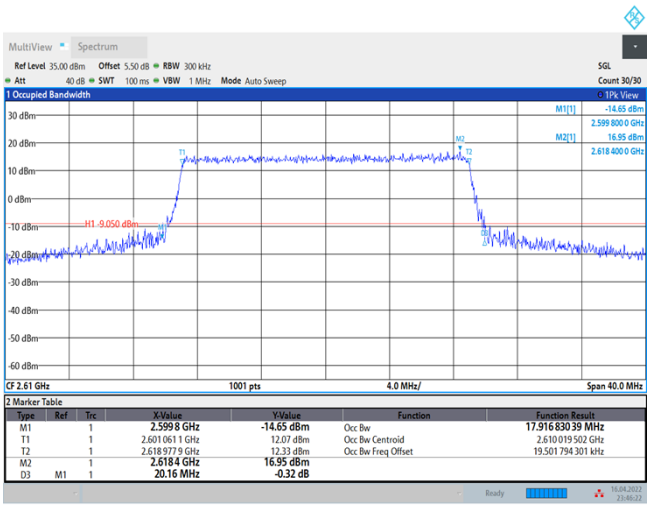
Band38-20MHz-16QAM-38000-100RB#0



Band38-20MHz-16QAM-38150-100RB#0



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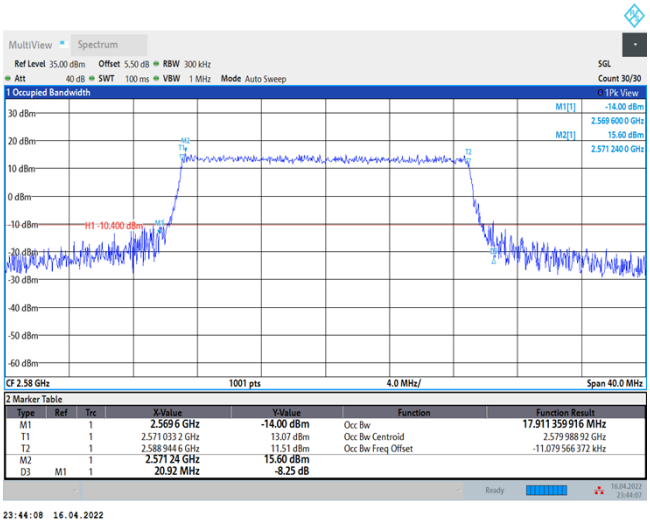
Band38-20MHz-64QAM-37850-100RB#0



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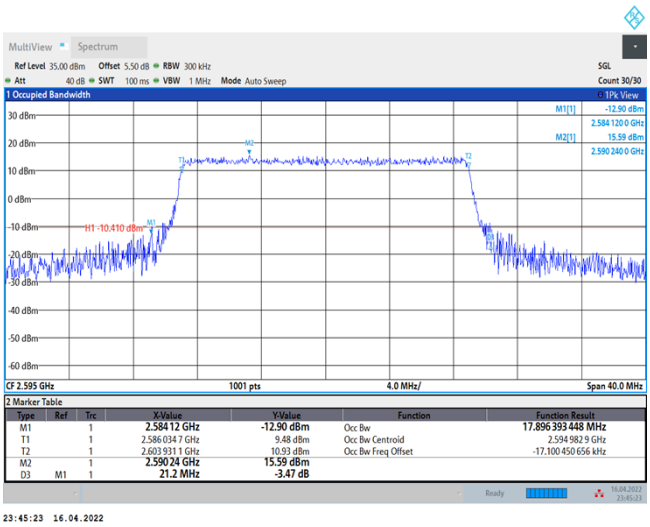

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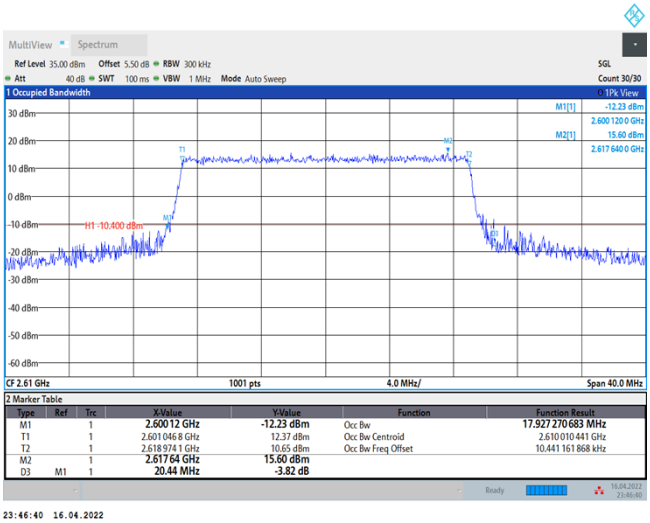
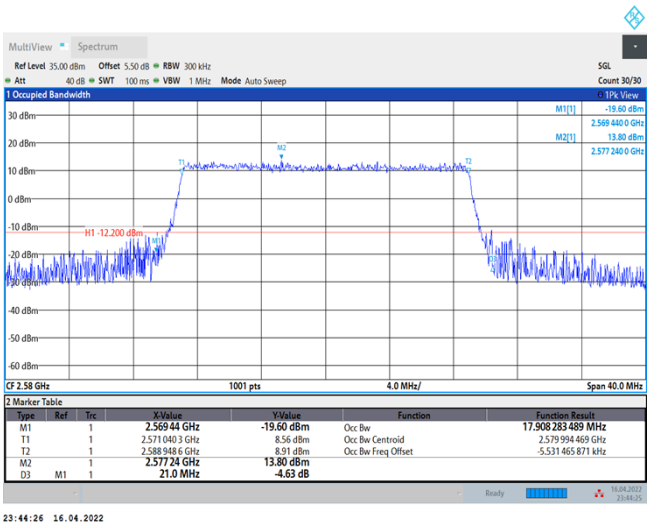
Band38-20MHz-64QAM-38150-100RB#0



Band38-20MHz-256QAM-37850-100RB#0



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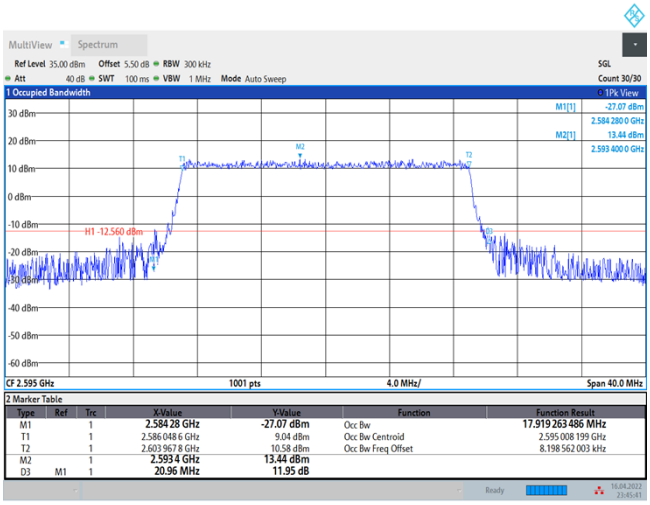
Band38-20MHz-256QAM-38000-100RB#0



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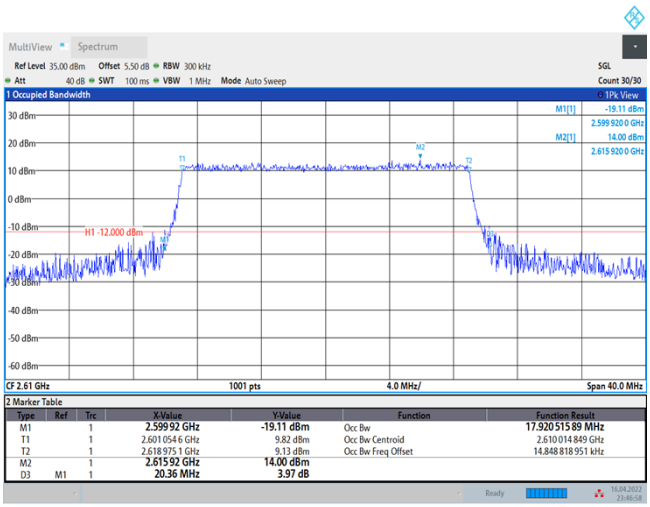
Band38-20MHz-256QAM-38150-100RB#0



23:46:58 16.04.2022

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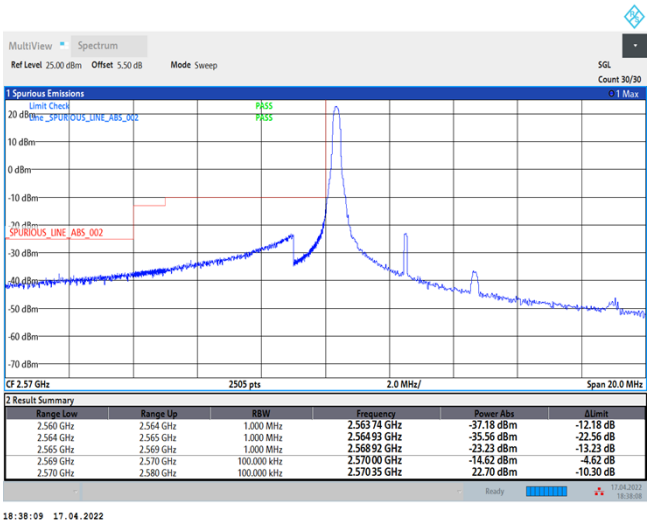
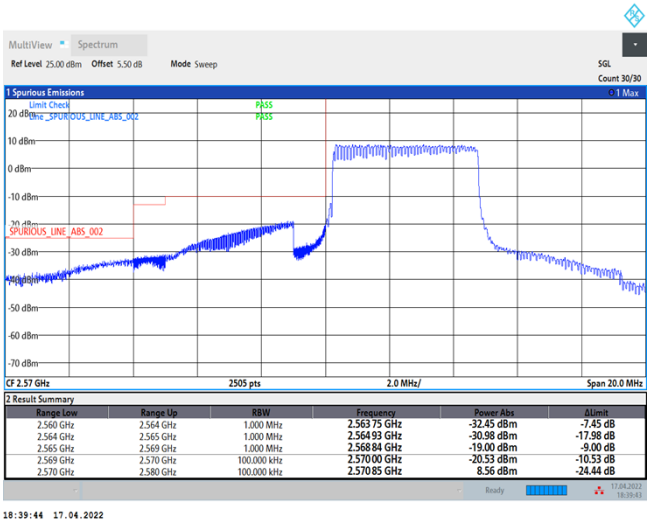
Band Edge

Test Graphs

Band38-5MHz-QPSK-37775-1RB#0



Band38-5MHz-QPSK-37775-25RB#0



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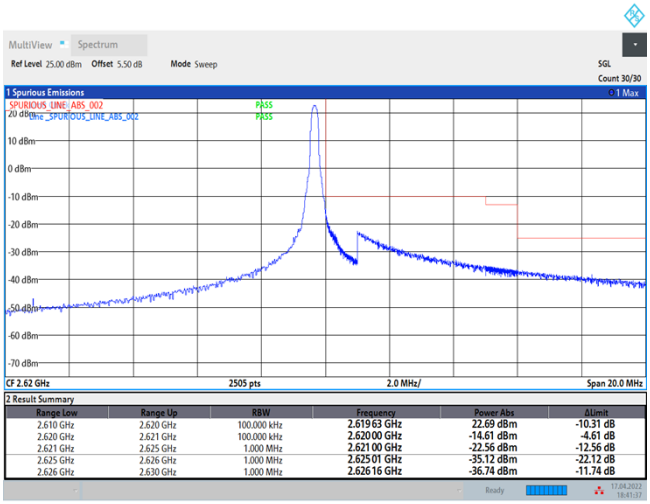
Band38-5MHz-QPSK-38225-1RB#24



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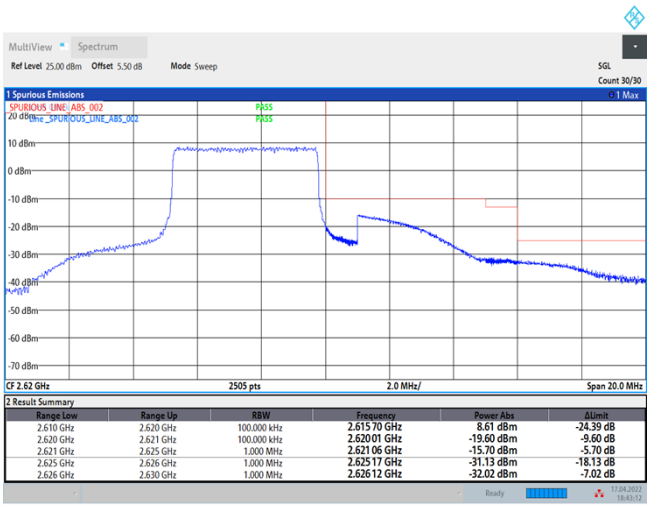
Band38-5MHz-QPSK-38225-25RB#0



18:43:12 17.04.2022

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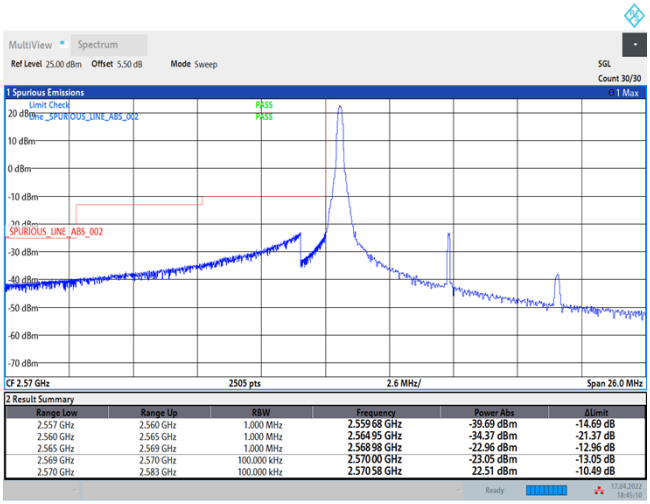
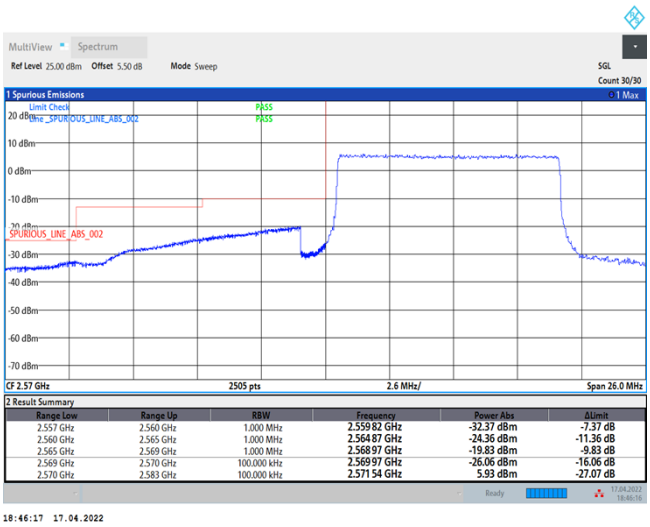
Band38-10MHz-QPSK-37800-1RB#0



Band38-10MHz-QPSK-37800-50RB#0



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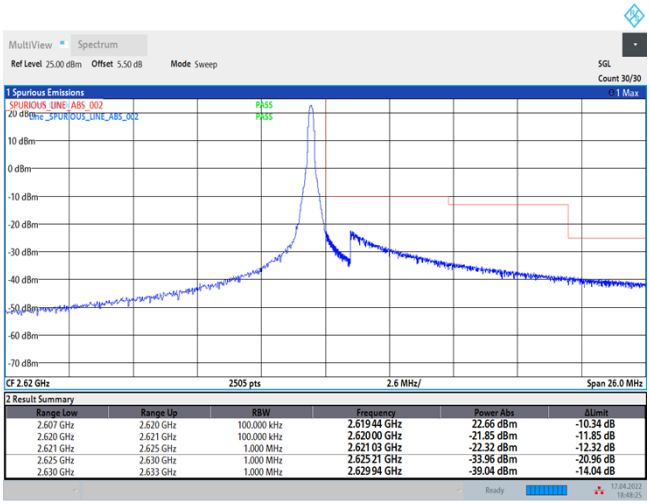
Band38-10MHz-QPSK-38200-1RB#49



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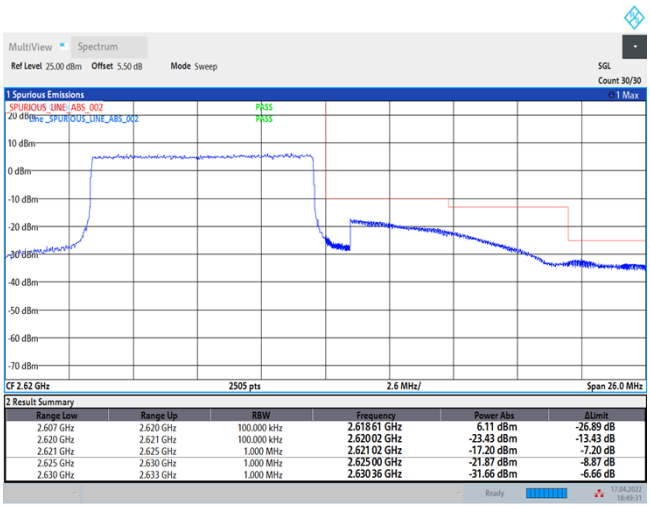
Band38-10MHz-QPSK-38200-50RB#0



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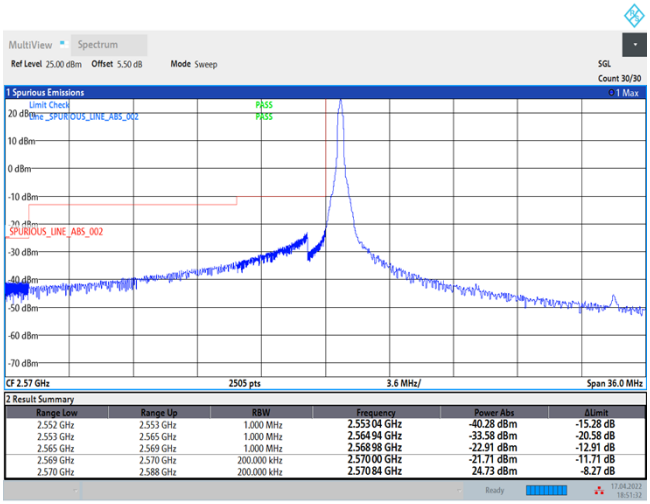
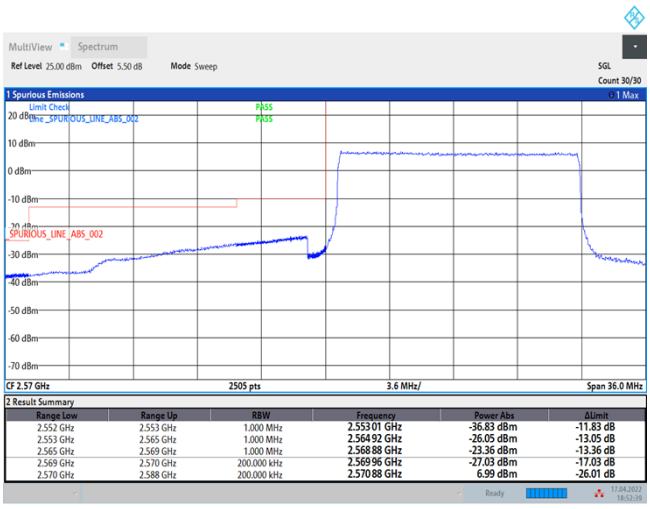
Band38-15MHz-QPSK-37825-1RB#0



Band38-15MHz-QPSK-37825-75RB#0



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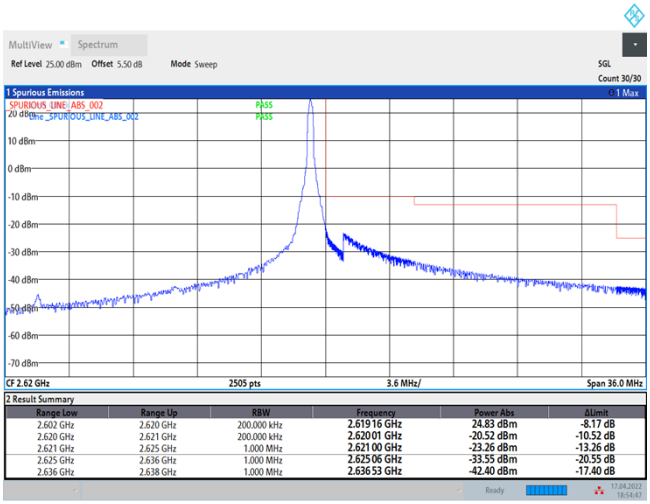
Band38-15MHz-QPSK-38175-1RB#74



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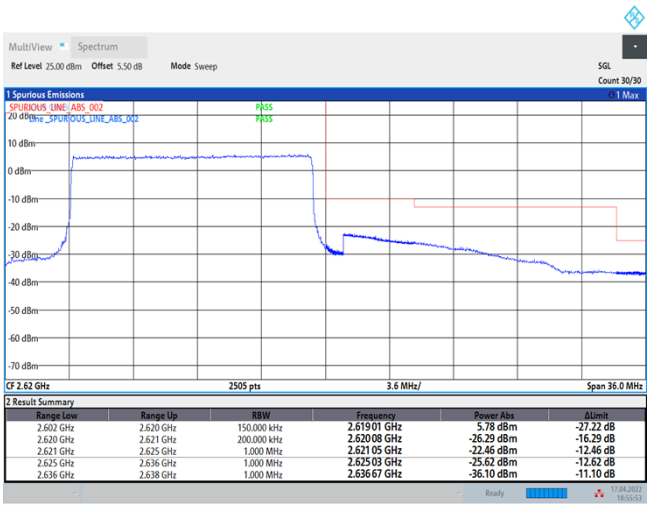
Band38-15MHz-QPSK-38175-75RB#0



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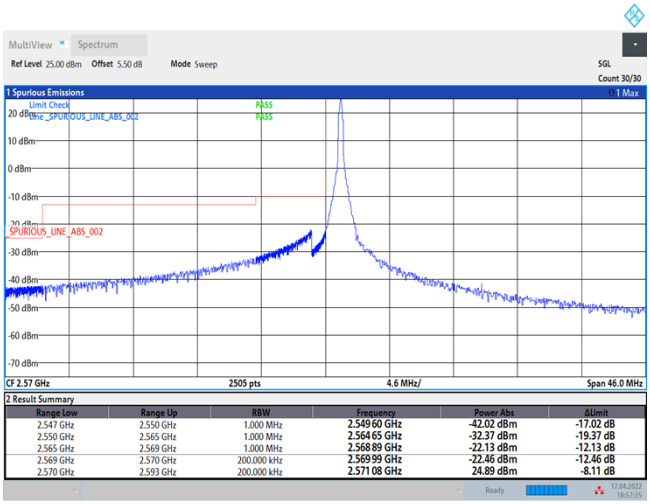
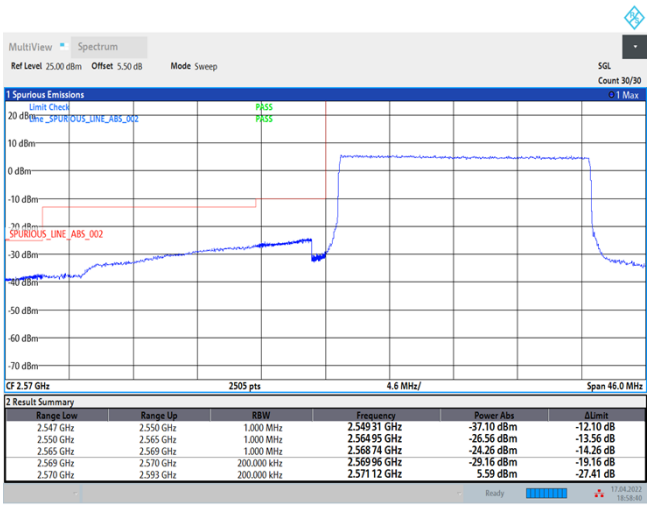
Band38-20MHz-QPSK-37850-1RB#0



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.547 GHz	2.550 GHz	1.000 MHz	2.549 60 GHz	-42.02 dBm	-17.02 dB
2.550 GHz	2.565 GHz	1.000 MHz	2.564 65 GHz	-32.37 dBm	-19.37 dB
2.565 GHz	2.569 GHz	1.000 MHz	2.568 89 GHz	-22.13 dBm	-12.13 dB
2.569 GHz	2.570 GHz	200.000 kHz	2.569 99 GHz	-22.46 dBm	-12.46 dB
2.570 GHz	2.593 GHz	200.000 kHz	2.571 08 GHz	24.89 dBm	-8.11 dB

18:57:35 17.04.2022

Band38-20MHz-QPSK-37850-100RB#0



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.547 GHz	2.550 GHz	1.000 MHz	2.549 31 GHz	-37.10 dBm	-12.10 dB
2.550 GHz	2.565 GHz	1.000 MHz	2.564 95 GHz	-26.56 dBm	-13.56 dB
2.565 GHz	2.569 GHz	1.000 MHz	2.568 74 GHz	-24.26 dBm	-14.26 dB
2.569 GHz	2.570 GHz	200.000 kHz	2.569 96 GHz	-29.16 dBm	-19.16 dB
2.570 GHz	2.593 GHz	200.000 kHz	2.571 12 GHz	5.59 dBm	-27.41 dB

18:58:41 17.04.2022

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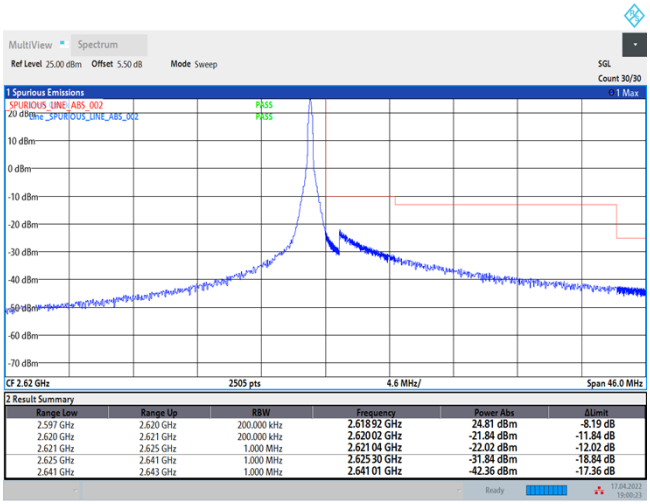
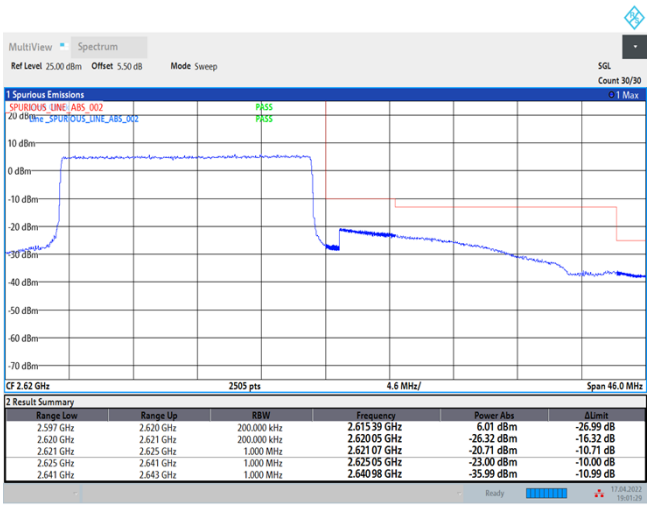
Band38-20MHz-QPSK-38150-1RB#99



19:00:23 17.04.2022

Band38-20MHz-QPSK-38150-100RB#0



19:01:29 17.04.2022

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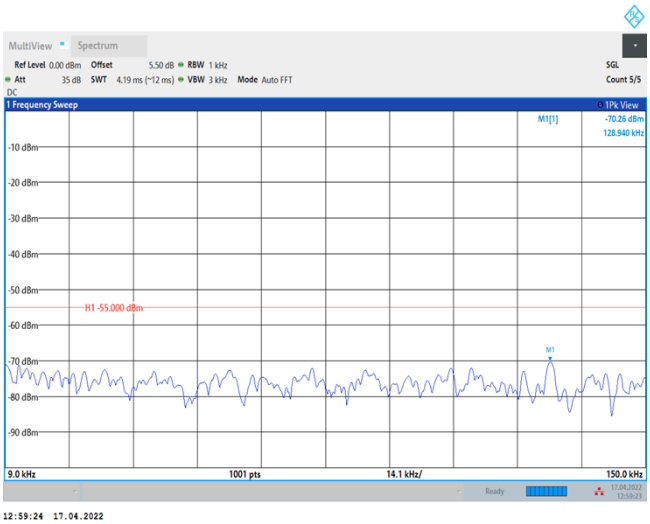
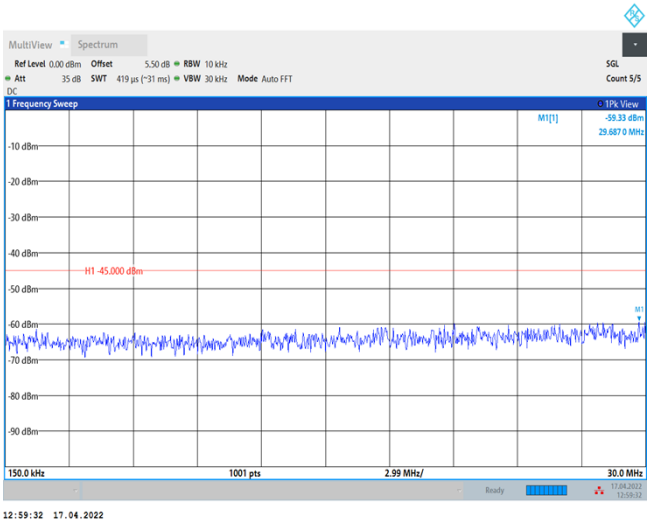
Conducted Spurious Emission

Test Graphs

Band38-20MHz-QPSK-37850-1RB#0-Range1:0.009~0.15MHz



Band38-20MHz-QPSK-37850-1RB#0-Range2:0.15~30MHz



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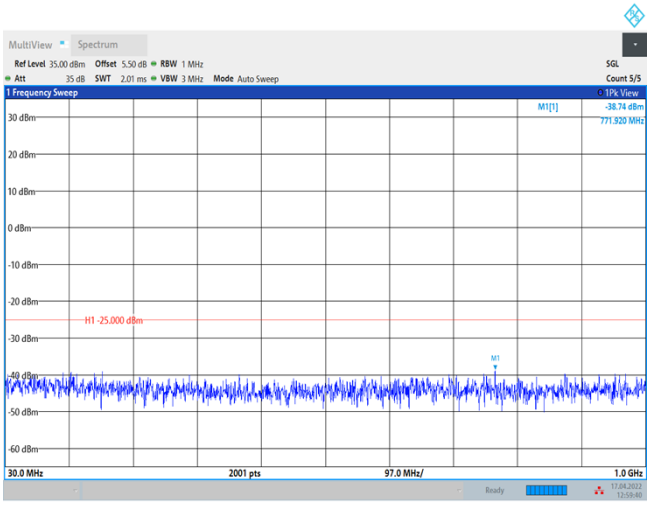
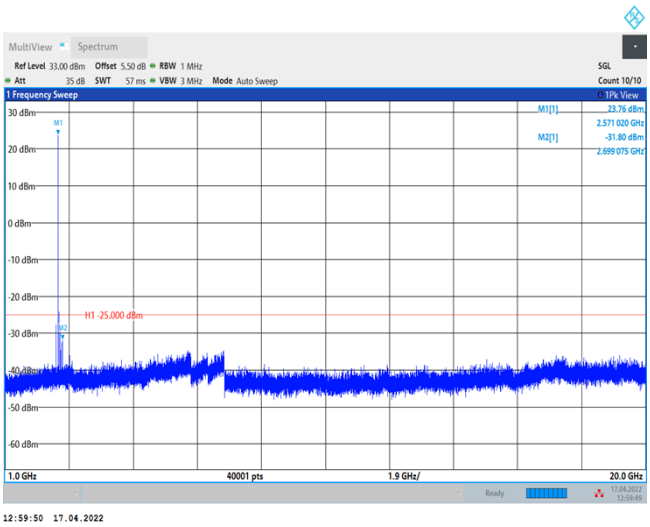
Band38-20MHz-QPSK-37850-1RB#0-Range3:30~1000MHz



Band38-20MHz-QPSK-37850-1RB#0-Range4:1000~20000MHz



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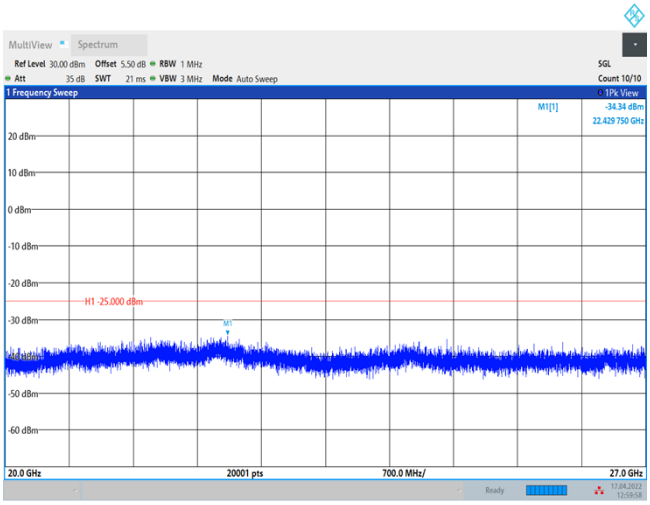
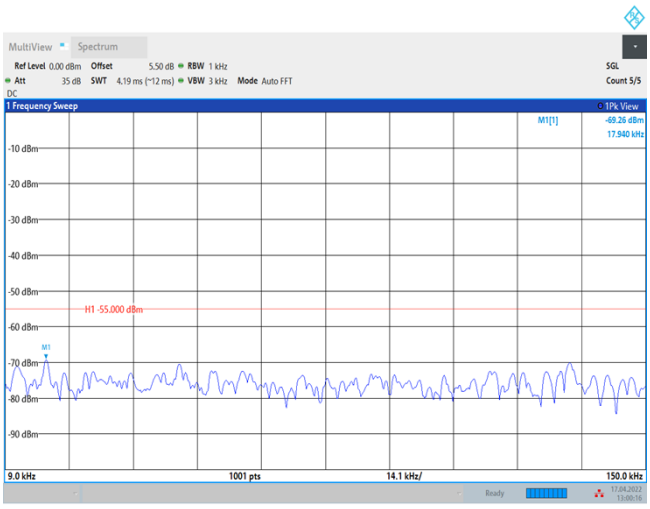
Band38-20MHz-QPSK-37850-1RB#0-Range5:20000~27000MHz



Band38-20MHz-QPSK-38000-1RB#0-Range1:0.009~0.15MHz



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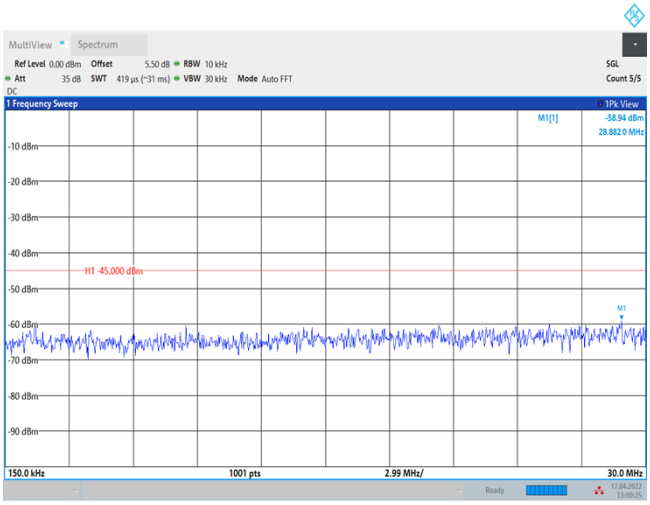
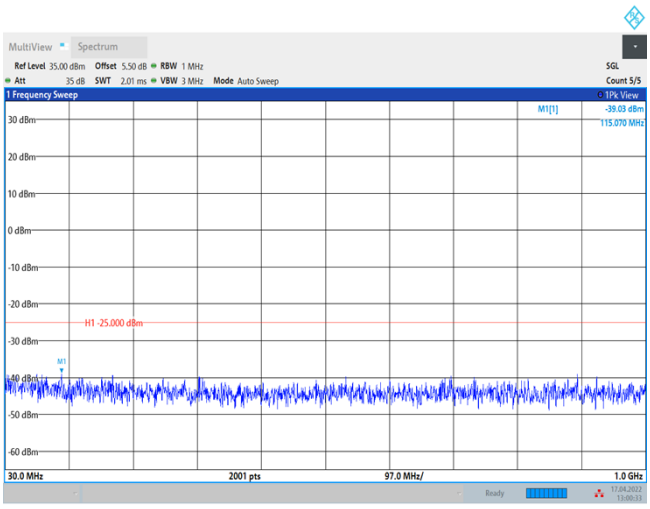
Band38-20MHz-QPSK-38000-1RB#0-Range2:0.15~30MHz



Band38-20MHz-QPSK-38000-1RB#0-Range3:30~1000MHz



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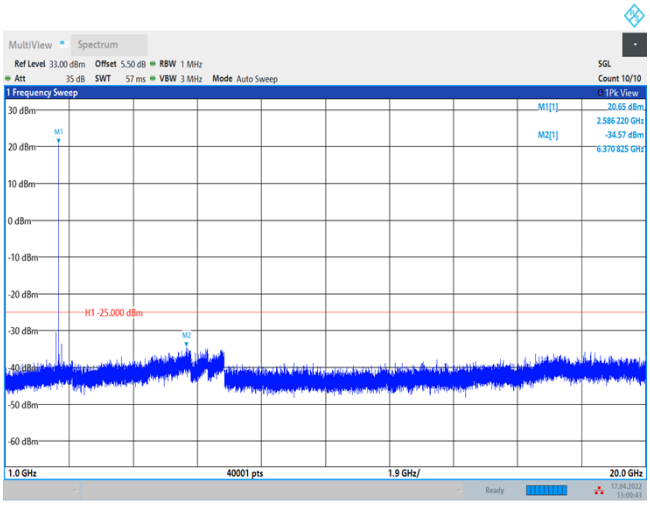
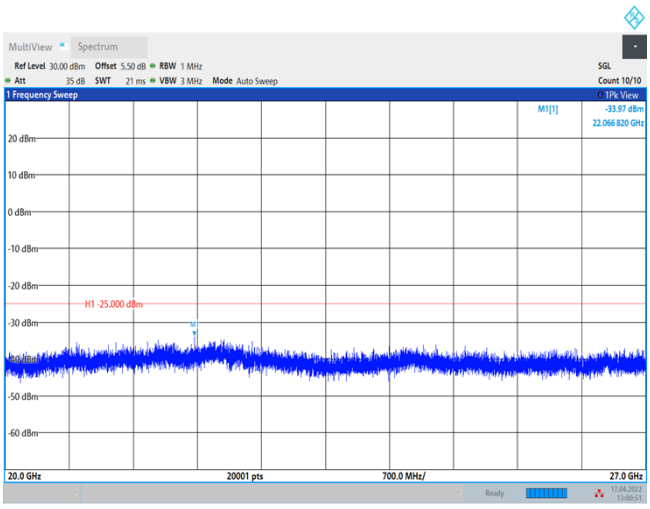
Band38-20MHz-QPSK-38000-1RB#0-Range4:1000~20000MHz



Band38-20MHz-QPSK-38000-1RB#0-Range5:20000~27000MHz



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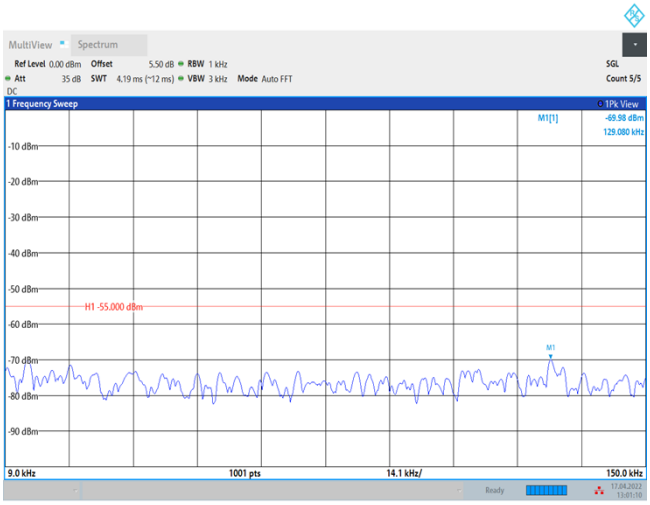
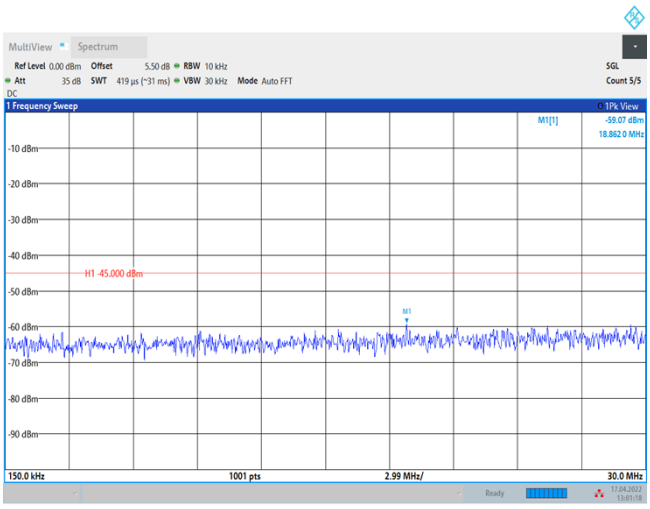
Band38-20MHz-QPSK-38150-1RB#0-Range1:0.009~0.15MHz



Band38-20MHz-QPSK-38150-1RB#0-Range2:0.15~30MHz



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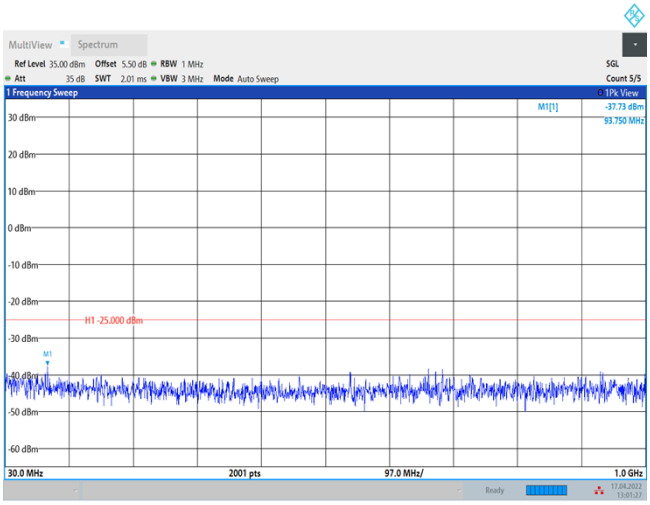
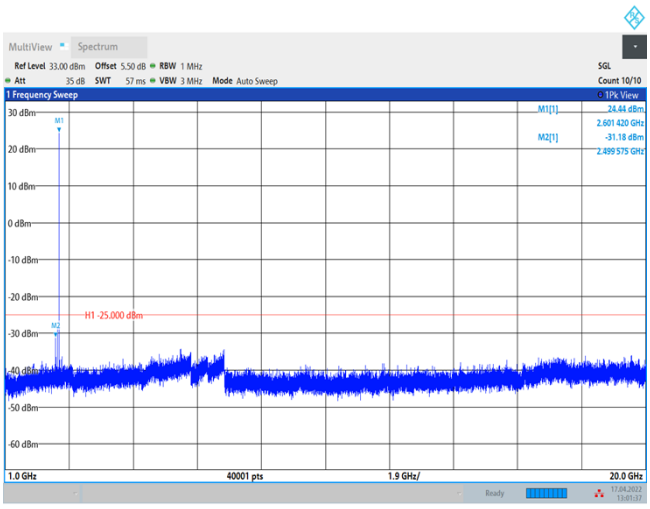
Band38-20MHz-QPSK-38150-1RB#0-Range3:30~1000MHz



Band38-20MHz-QPSK-38150-1RB#0-Range4:1000~20000MHz



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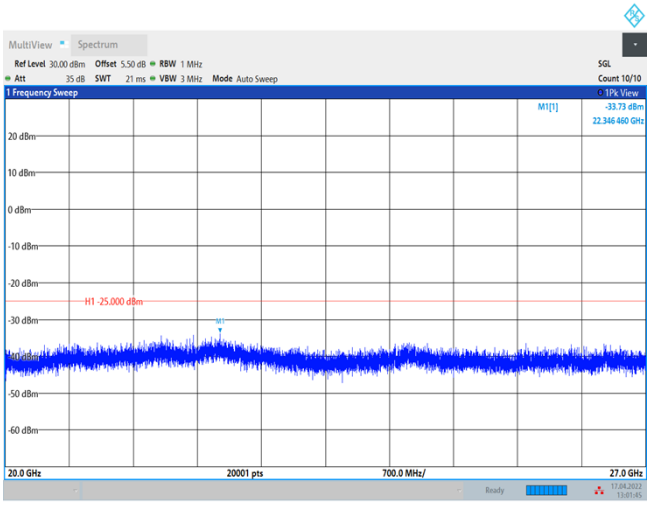
Band38-20MHz-QPSK-38150-1RB#0-Range5:20000~27000MHz



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Field Strength of Spurious Radiation

Test Band = LTE Band 38_ 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	5142.18	51.13	-106.89	-55.76	-25.00	30.76	263	142	Horizontal
2	7713.27	49.37	-99.56	-50.19	-25.00	25.19	251	223	Horizontal
3	10284.36	43.75	-93.24	-49.49	-25.00	24.49	174	9	Horizontal
4	12855.45	42.90	-90.76	-47.86	-25.00	22.86	162	84	Horizontal
5	15426.54	41.68	-90.57	-48.89	-25.00	23.89	241	2	Horizontal
6	17997.63	39.12	-84.09	-44.97	-25.00	19.97	263	270	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5142.18	51.91	-106.89	-54.98	-25.00	29.98	263	96	Vertical
2	7713.27	50.66	-99.56	-48.90	-25.00	23.90	241	57	Vertical
3	10284.36	44.40	-93.24	-48.84	-25.00	23.84	176	131	Vertical
4	12855.45	43.81	-90.76	-46.95	-25.00	21.95	264	294	Vertical
5	15426.54	41.23	-90.57	-49.34	-25.00	24.34	188	186	Vertical
6	17997.63	39.38	-84.09	-44.71	-25.00	19.71	183	255	Vertical

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Test Band = LTE Band 38_ 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	5172.18	49.85	-106.85	-57.00	-25.00	32.00	263	95	Horizontal
2	7758.27	49.00	-99.15	-50.15	-25.00	25.15	251	131	Horizontal
3	10344.36	42.36	-93.05	-50.69	-25.00	25.69	175	38	Horizontal
4	12930.45	43.00	-90.61	-47.61	-25.00	22.61	265	357	Horizontal
5	15516.54	42.11	-90.85	-48.74	-25.00	23.74	241	71	Horizontal
6	17865	42.41	-84.17	-41.76	-25.00	16.76	178	176	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5172.18	51.83	-106.85	-55.02	-25.00	30.02	362	127	Vertical
2	7758.27	47.96	-99.15	-51.19	-25.00	26.19	251	71	Vertical
3	10344.36	43.14	-93.05	-49.91	-25.00	24.91	186	9	Vertical
4	12930.45	42.69	-90.61	-47.92	-25.00	22.92	264	23	Vertical
5	15516.54	40.78	-90.85	-50.07	-25.00	25.07	176	178	Vertical
6	17907.8571	42.70	-84.12	-41.42	-25.00	16.42	263	94	Vertical

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Test Band = LTE Band 38_ 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	5202.18	50.20	-106.81	-56.61	-25.00	31.61	263	96	Horizontal
2	7803.27	49.20	-98.77	-49.57	-25.00	24.57	251	339	Horizontal
3	10404.36	42.63	-92.78	-50.15	-25.00	25.15	174	304	Horizontal
4	13005.45	43.96	-90.54	-46.58	-25.00	21.58	186	9	Horizontal
5	15606.54	42.97	-90.76	-47.79	-25.00	22.79	264	2	Horizontal
6	17865	42.58	-84.17	-41.59	-25.00	16.59	148	62	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5202.18	53.62	-106.81	-53.19	-25.00	28.19	263	96	Vertical
2	7803.27	48.79	-98.77	-49.98	-25.00	24.98	251	71	Vertical
3	10404.36	42.67	-92.78	-50.11	-25.00	25.11	174	338	Vertical
4	13005.45	42.88	-90.54	-47.66	-25.00	22.66	263	254	Vertical
5	15606.54	41.57	-90.76	-49.19	-25.00	24.19	241	178	Vertical
6	17854.2857	41.99	-84.19	-42.20	-25.00	17.20	268	164	Vertical

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Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Verdict
Band38	20MHz	QPSK	38000	100RB#0	VL	NT	-0.70	-0.000270	PASS
Band38	20MHz	QPSK	38000	100RB#0	VN	NT	-1.60	-0.000617	PASS
Band38	20MHz	QPSK	38000	100RB#0	VH	NT	-1.40	-0.000539	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Verdict
Band38	20MHz	QPSK	38000	100RB#0	NV	-30	-0.20	-0.000077	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-20	-1.90	-0.000732	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-10	0.90	0.000347	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	0	0.50	0.000193	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	10	-1.40	-0.000539	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	20	0.30	0.000116	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	30	-1.90	-0.000732	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	40	-2.50	-0.000963	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	50	0.00	0.000000	PASS

The End

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