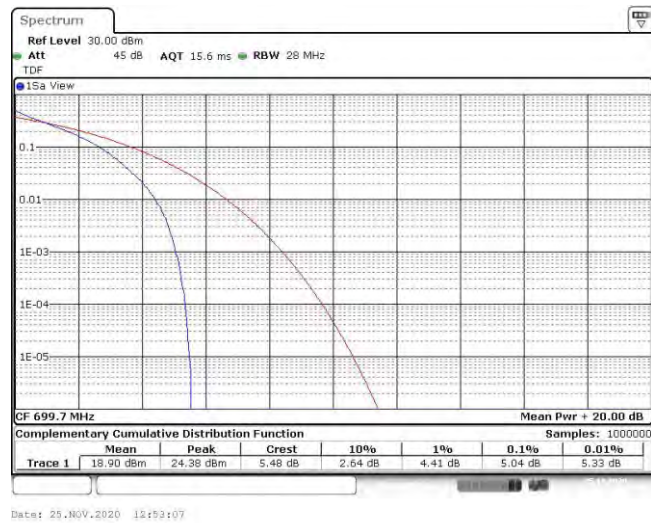


Product Name: GEM-OX-GU**Model: TE-304B-A12****Appendix B: Peak-to-Average Ratio(CCDF)****Test Result**

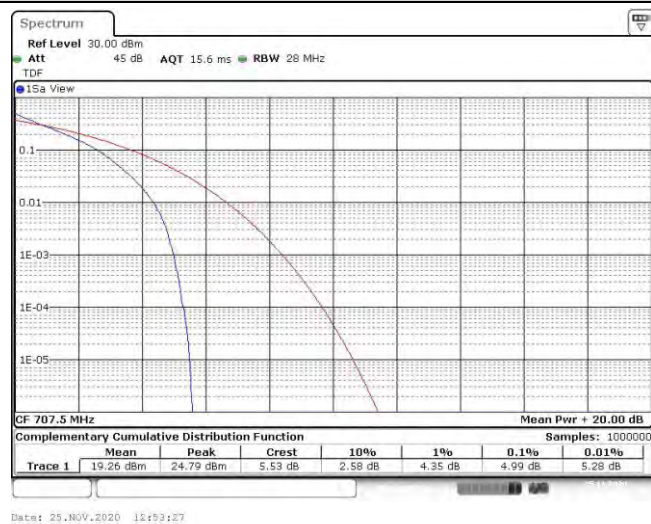
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	5.04	13	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	4.99	13	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	4.90	13	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	5.91	13	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	5.86	13	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	5.74	13	PASS
Band12	3MHz	QPSK	23025	15RB#0	5.16	13	PASS
Band12	3MHz	QPSK	23095	15RB#0	5.04	13	PASS
Band12	3MHz	QPSK	23165	15RB#0	5.19	13	PASS
Band12	3MHz	16QAM	23025	15RB#0	6.00	13	PASS
Band12	3MHz	16QAM	23095	15RB#0	5.88	13	PASS
Band12	3MHz	16QAM	23165	15RB#0	6.03	13	PASS
Band12	5MHz	QPSK	23035	25RB#0	5.30	13	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.93	13	PASS
Band12	5MHz	QPSK	23155	25RB#0	5.30	13	PASS
Band12	5MHz	16QAM	23035	25RB#0	6.06	13	PASS
Band12	5MHz	16QAM	23095	25RB#0	5.86	13	PASS
Band12	5MHz	16QAM	23155	25RB#0	6.12	13	PASS
Band12	10MHz	QPSK	23060	50RB#0	5.16	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	4.75	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.45	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	6.17	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	5.83	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	6.17	13	PASS

Test Graphs

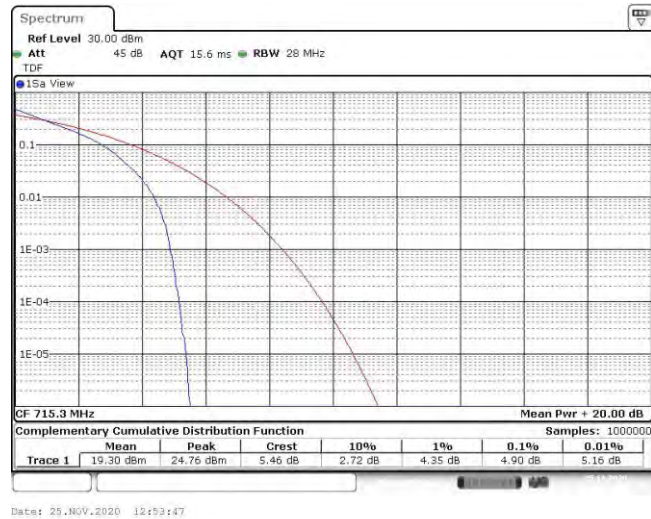
Band12-1.4MHz-QPSK-23017-6RB#0



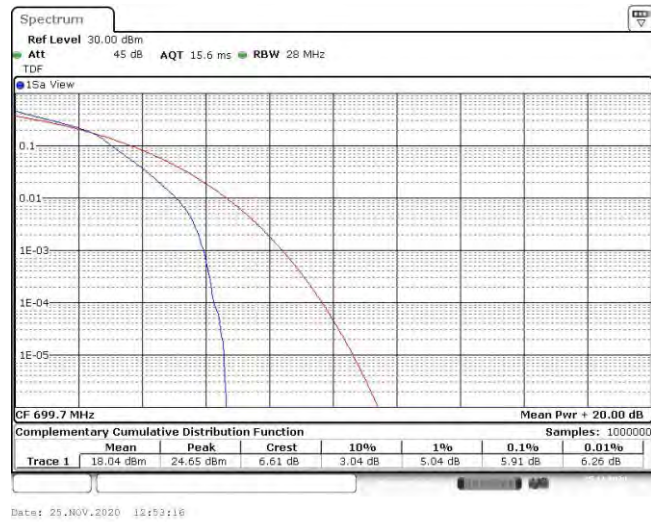
Band12-1.4MHz-QPSK-23095-6RB#0



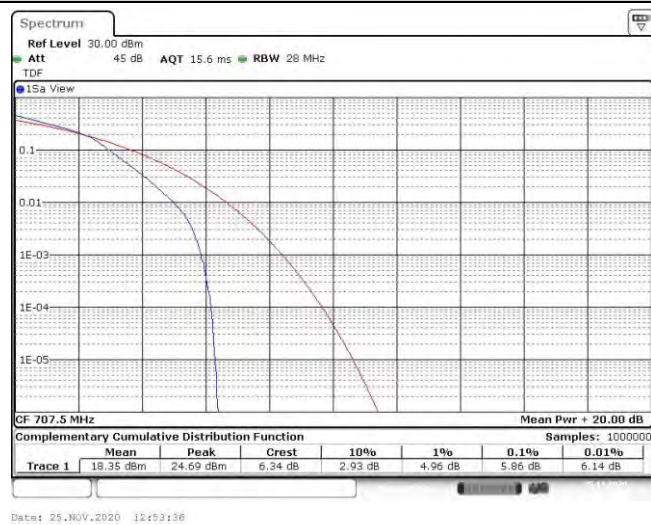
Band12-1.4MHz-QPSK-23173-6RB#0



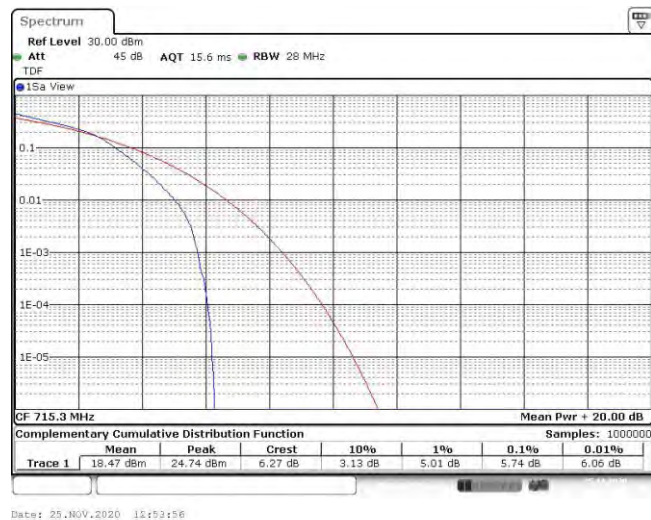
Band12-1.4MHz-16QAM-23017-6RB#0



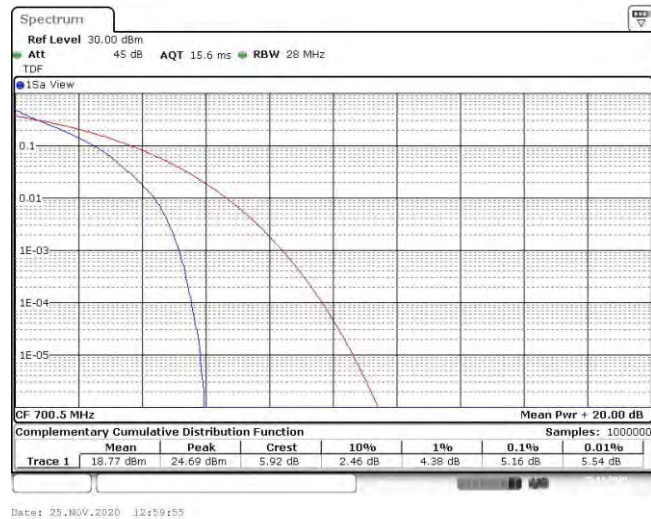
Band12-1.4MHz-16QAM-23095-6RB#0



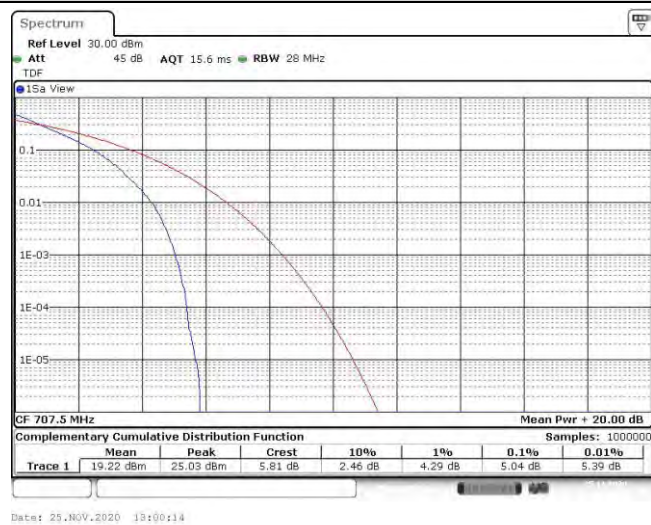
Band12-1.4MHz-16QAM-23173-6RB#0



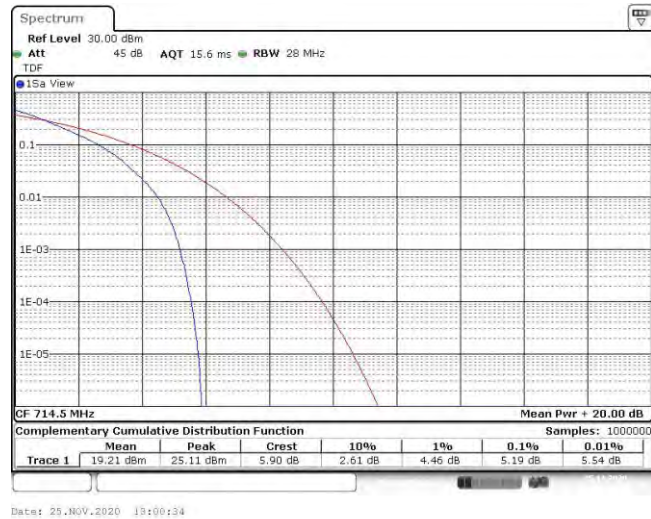
Band12-3MHz-QPSK-23025-15RB#0



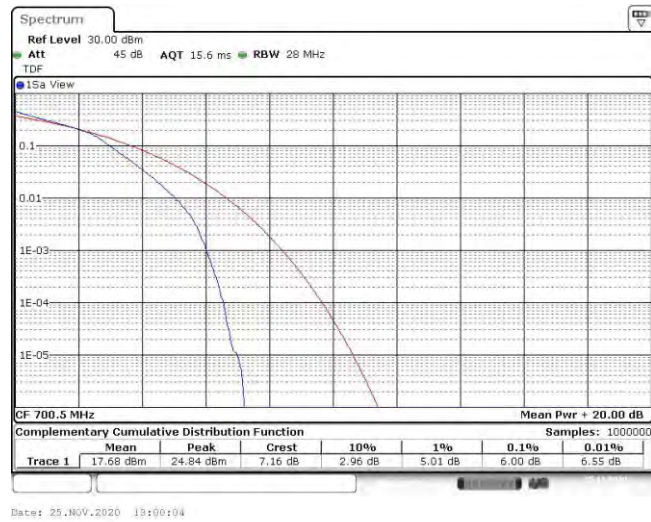
Band12-3MHz-QPSK-23095-15RB#0



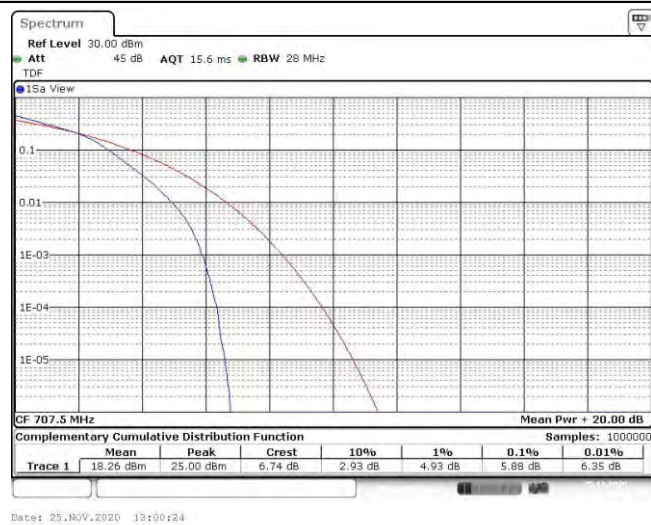
Band12-3MHz-QPSK-23165-15RB#0



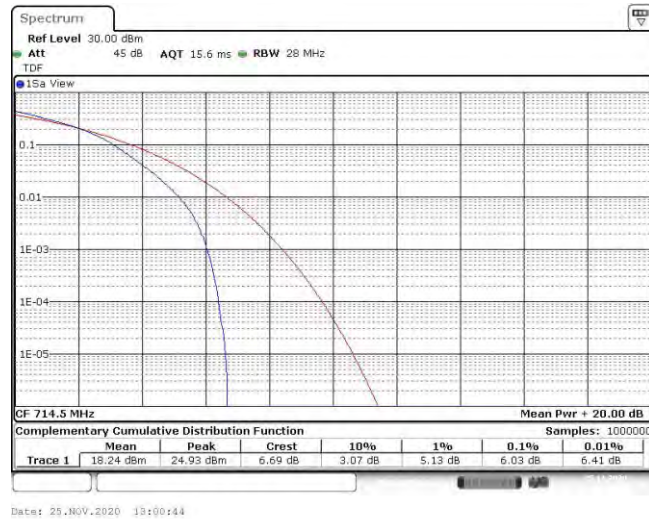
Band12-3MHz-16QAM-23025-15RB#0



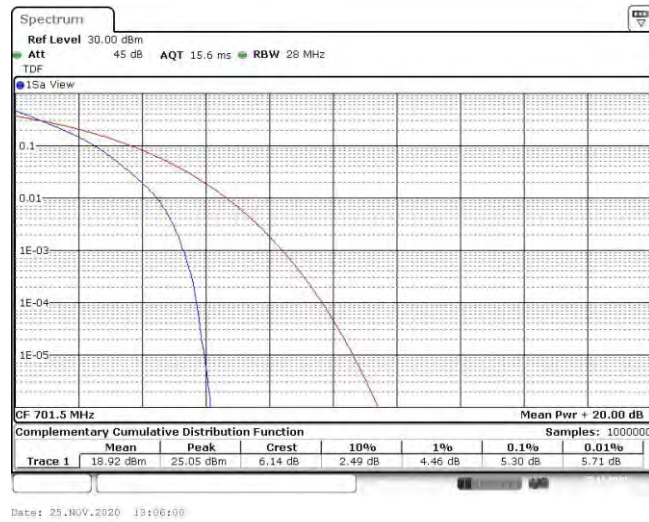
Band12-3MHz-16QAM-23095-15RB#0



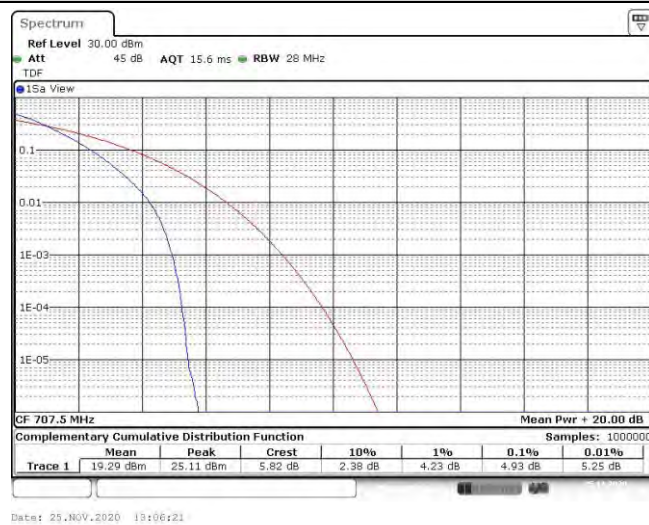
Band12-3MHz-16QAM-23165-15RB#0



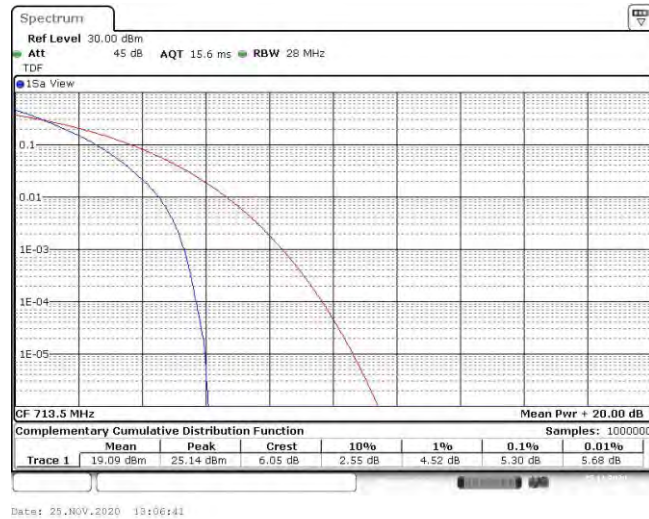
Band12-5MHz-QPSK-23035-25RB#0



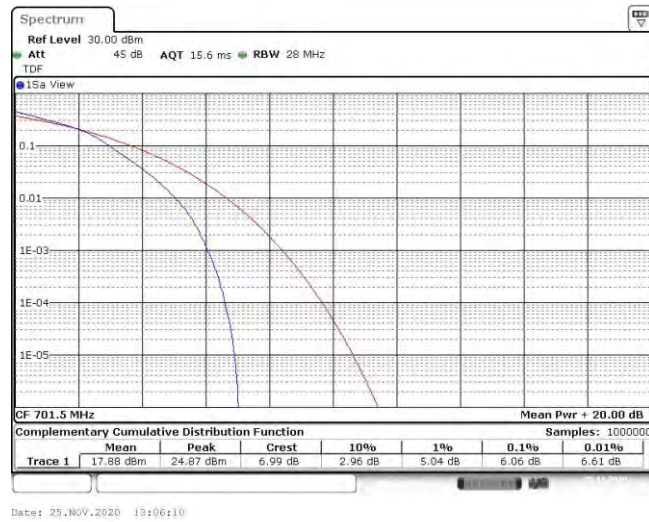
Band12-5MHz-QPSK-23095-25RB#0



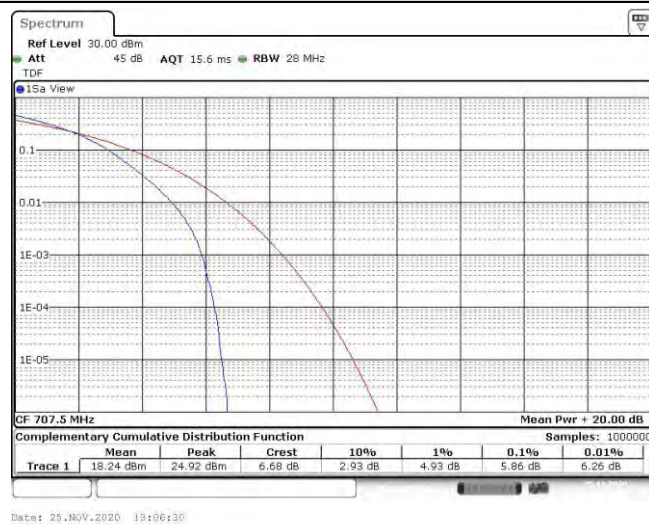
Band12-5MHz-QPSK-23155-25RB#0



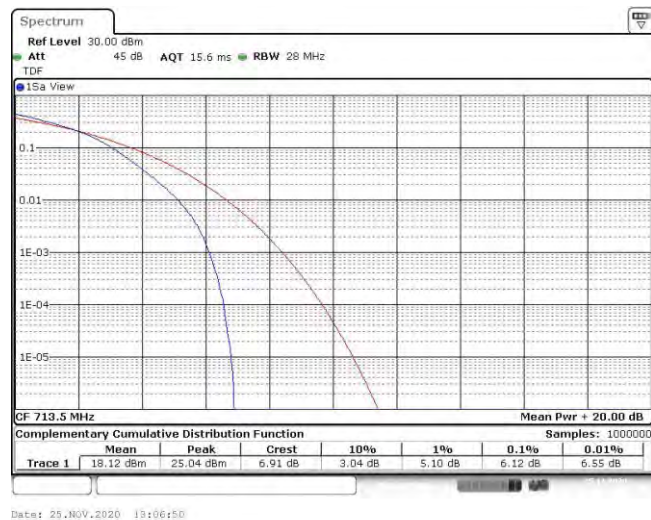
Band12-5MHz-16QAM-23035-25RB#0



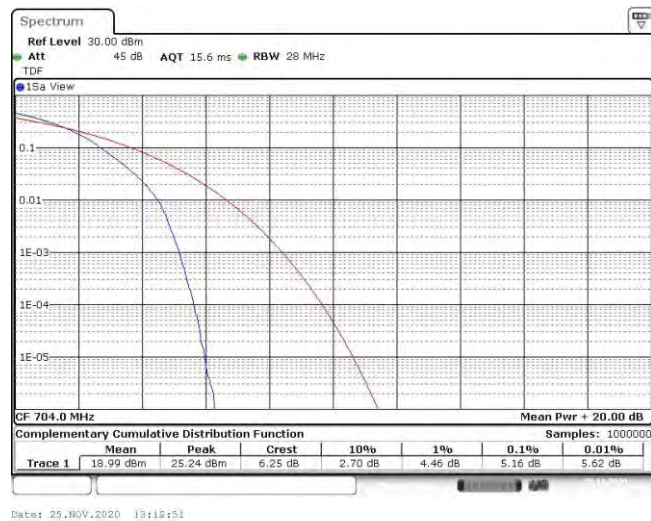
Band12-5MHz-16QAM-23095-25RB#0



Band12-5MHz-16QAM-23155-25RB#0



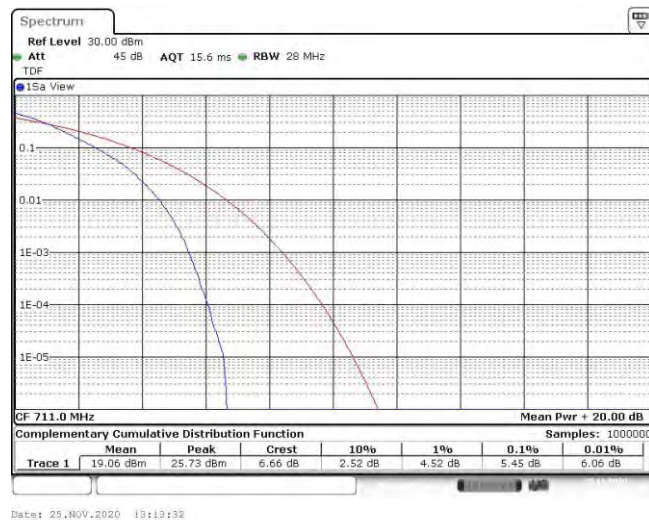
Band12-10MHz-QPSK-23060-50RB#0



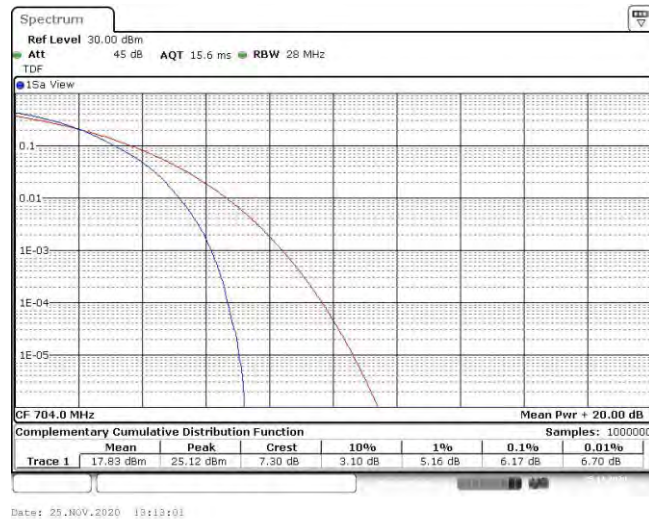
Band12-10MHz-QPSK-23095-50RB#0



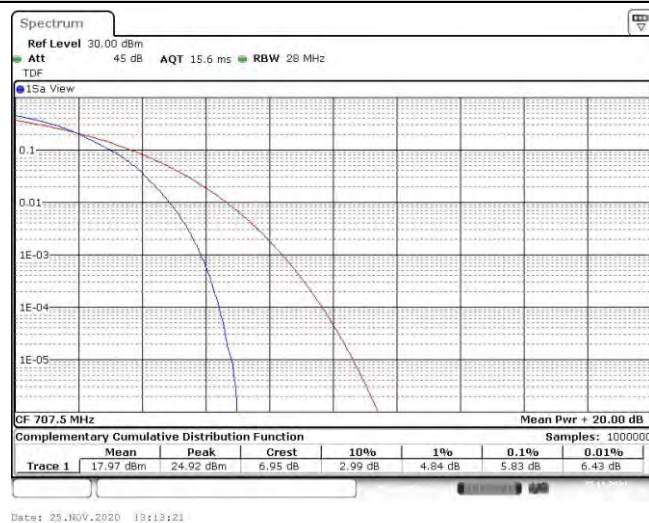
Band12-10MHz-QPSK-23130-50RB#0



Band12-10MHz-16QAM-23060-50RB#0



Band12-10MHz-16QAM-23095-50RB#0



Band12-10MHz-16QAM-23130-50RB#0



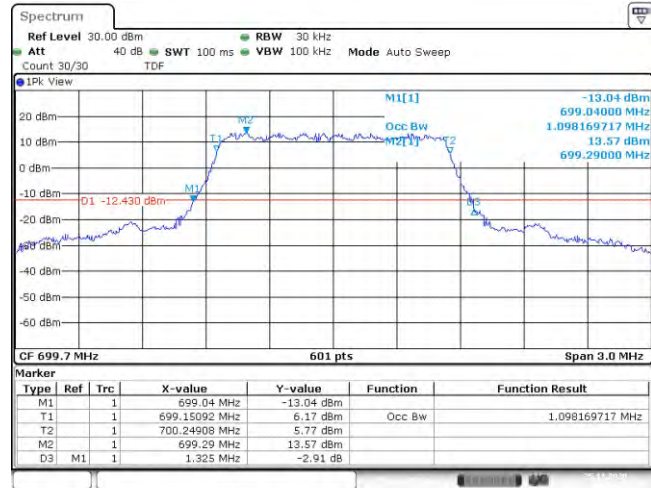
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.098	1.325	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.098	1.295	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.093	1.305	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.098	1.320	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.093	1.295	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.098	1.310	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.705	2.980	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.686	2.960	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.715	3.070	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.696	3.000	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.686	2.980	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.686	2.980	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.535	5.090	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.486	5.000	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.515	5.010	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.525	5.060	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.476	4.950	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.535	5.070	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.952	9.867	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.852	9.767	PASS
Band12	10MHz	QPSK	23130	50RB#0	9.018	9.933	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.952	9.800	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.852	9.767	PASS
Band12	10MHz	16QAM	23130	50RB#0	9.018	9.900	PASS

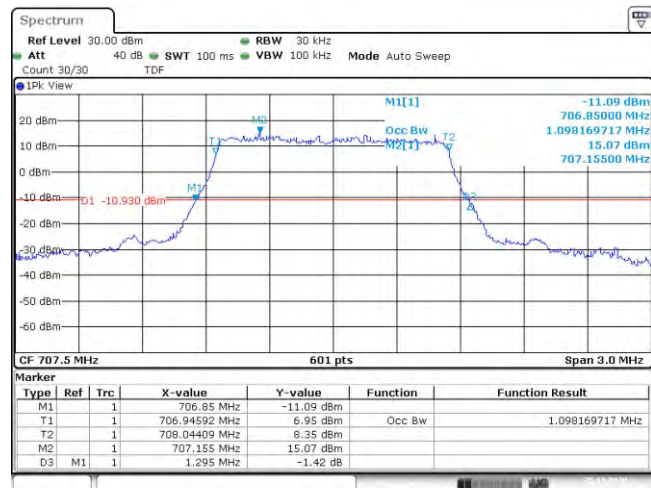
Test Graphs

Band12-1.4MHz-QPSK-23017-6RB#0-1.098



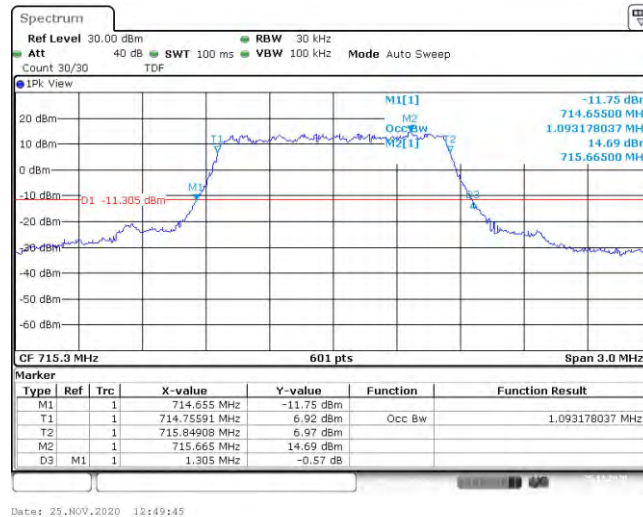
Date: 25.NOV.2020 12:48:58

Band12-1.4MHz-QPSK-23095-6RB#0-1.098

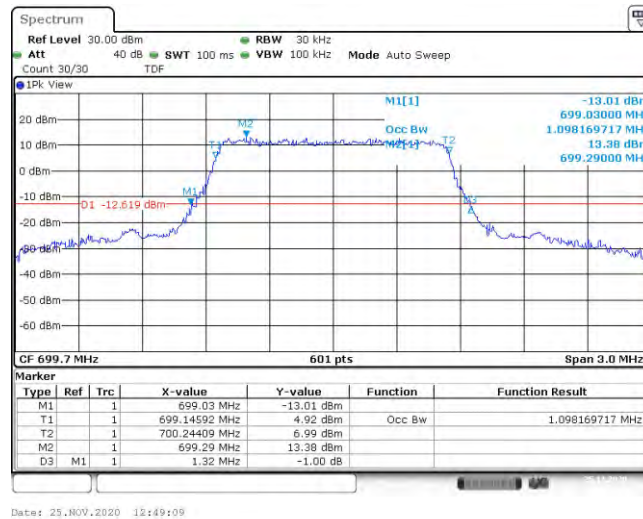


Date: 25.NOV.2020 12:49:22

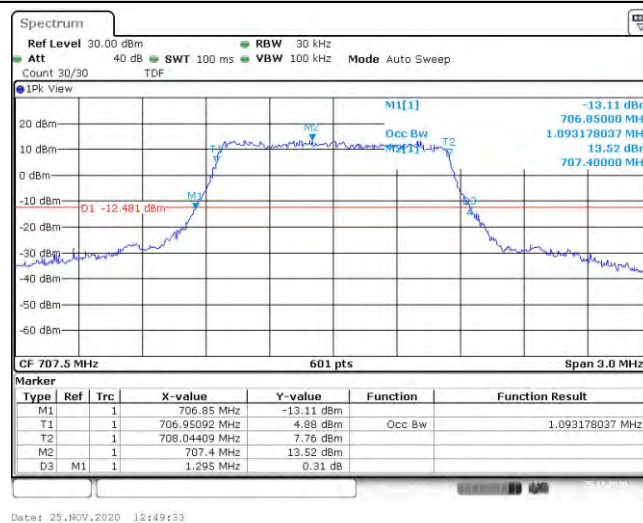
Band12-1.4MHz-QPSK-23173-6RB#0-1.093



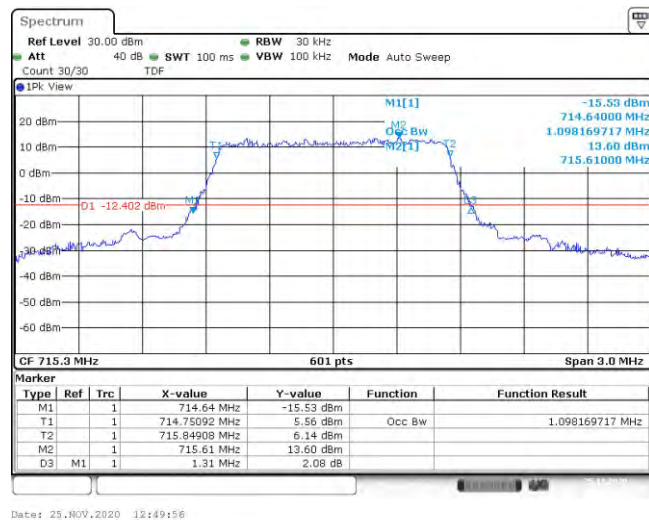
Band12-1.4MHz-16QAM-23017-6RB#0-1.098



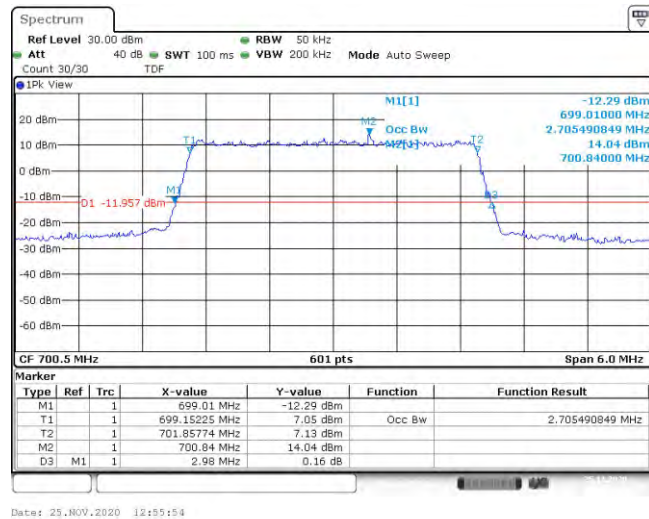
Band12-1.4MHz-16QAM-23095-6RB#0-1.093



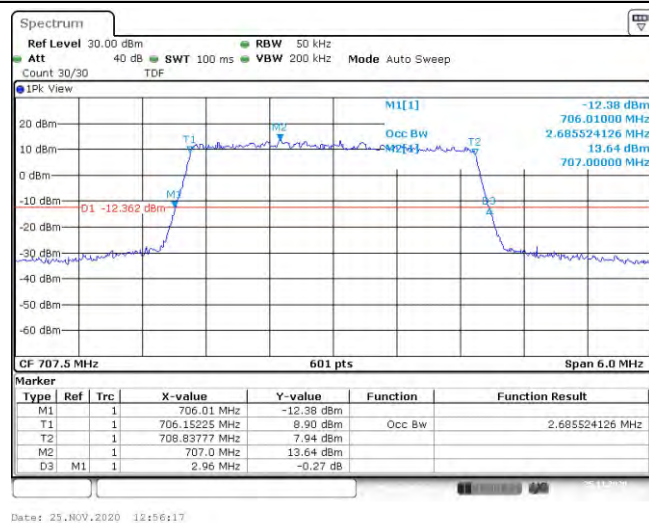
Band12-1.4MHz-16QAM-23173-6RB#0-1.098



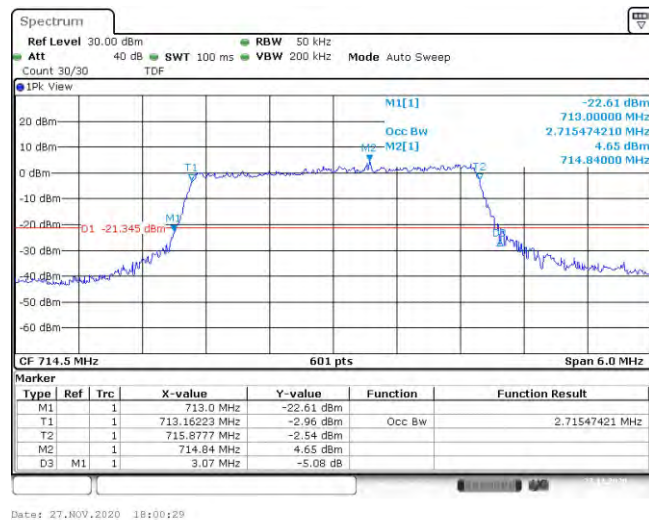
Band12-3MHz-QPSK-23025-15RB#0-2.705



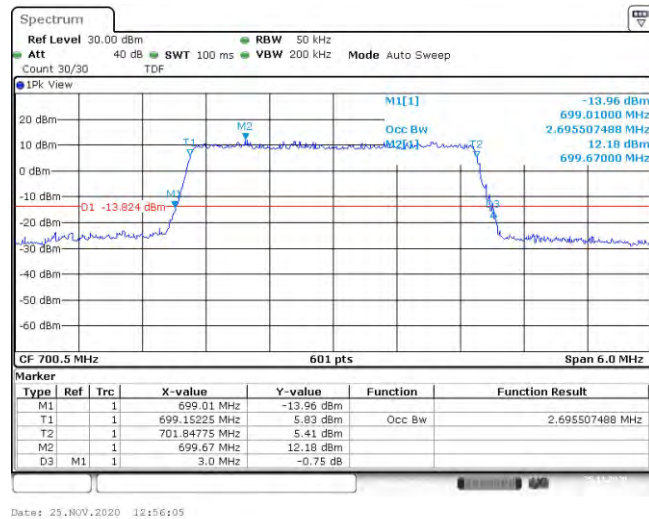
Band12-3MHz-QPSK-23095-15RB#0-2.686



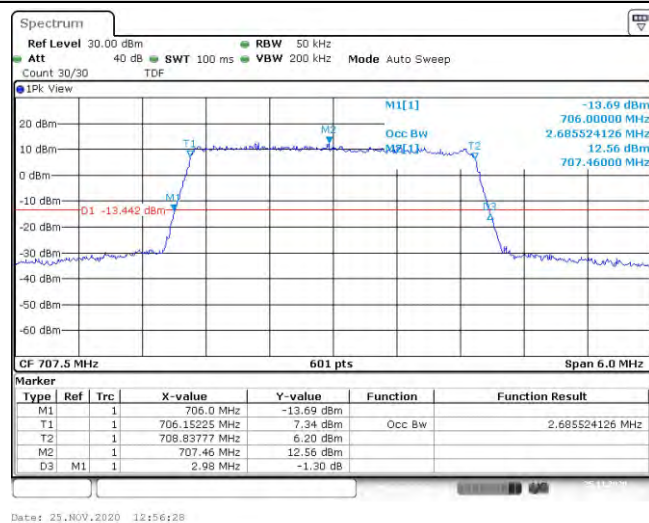
Band12-3MHz-QPSK-23165-15RB#0-2.715



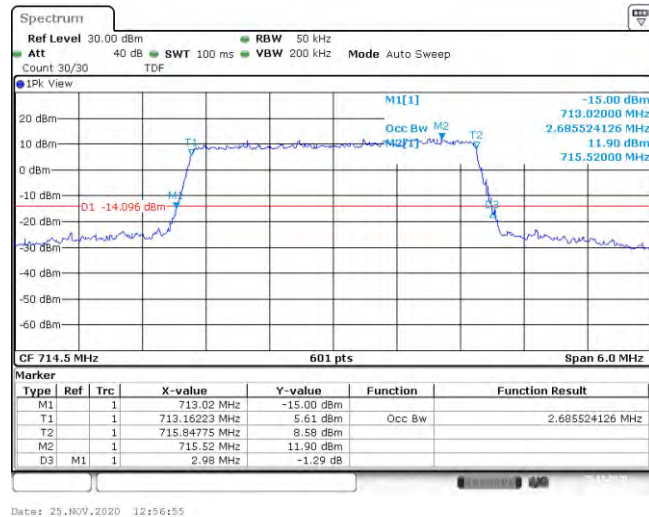
Band12-3MHz-16QAM-23025-15RB#0-2.696



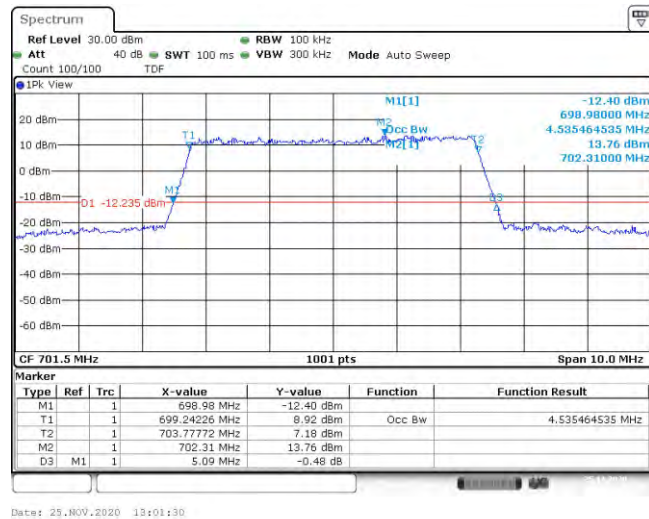
Band12-3MHz-16QAM-23095-15RB#0-2.686



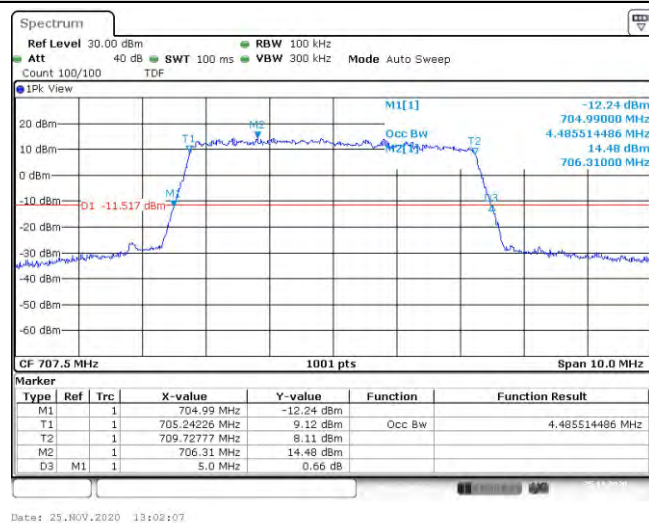
Band12-3MHz-16QAM-23165-15RB#0-2.686



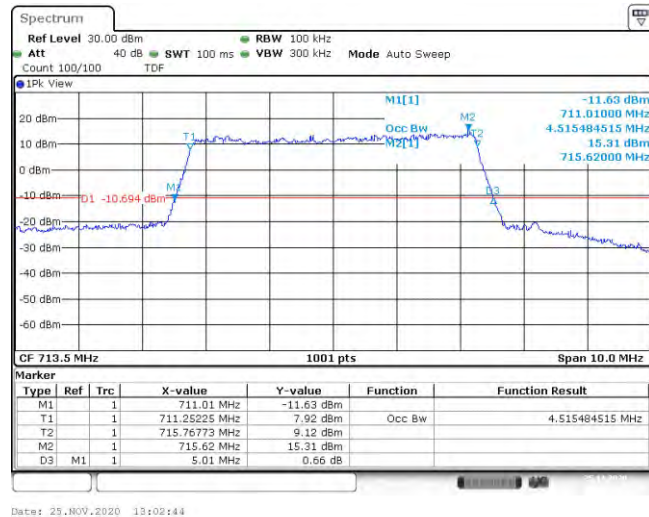
Band12-5MHz-QPSK-23035-25RB#0-4.535



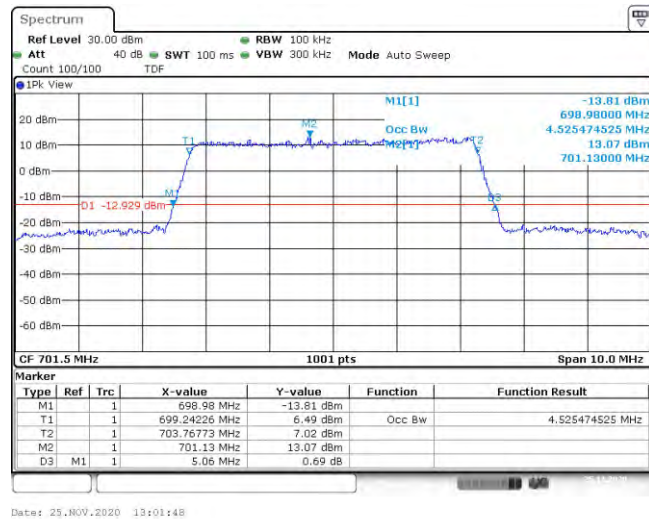
Band12-5MHz-QPSK-23095-25RB#0-4.486



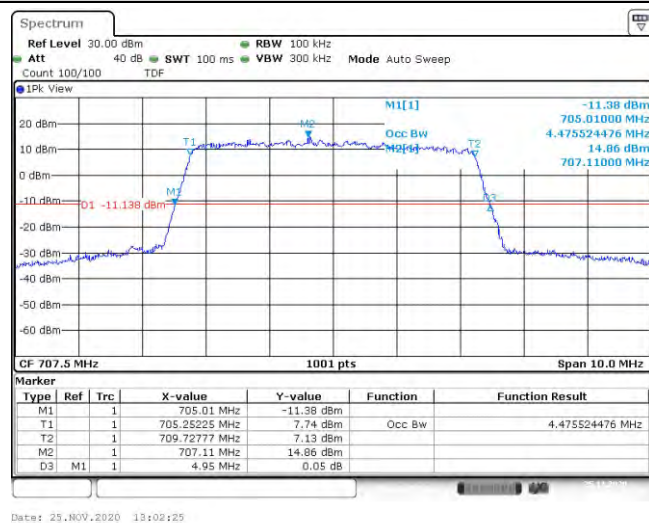
Band12-5MHz-QPSK-23155-25RB#0-4.515



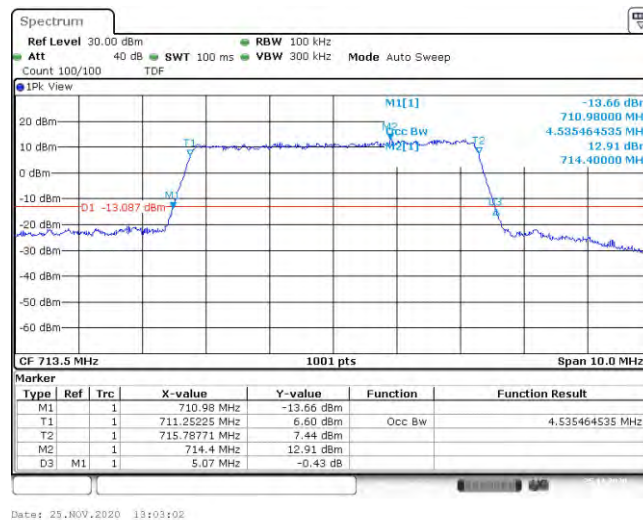
Band12-5MHz-16QAM-23035-25RB#0-4.525



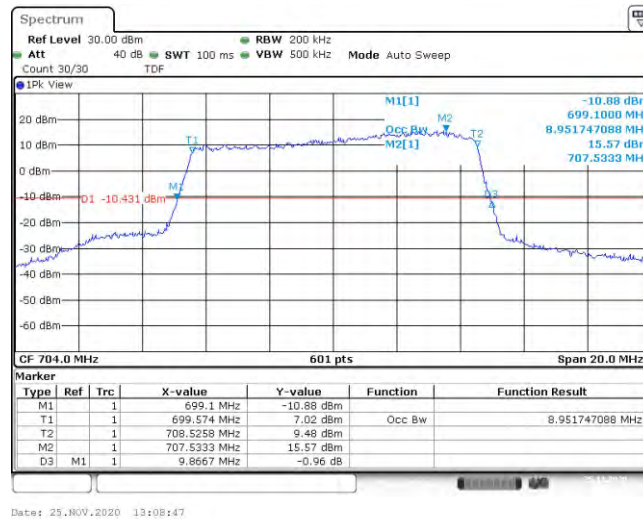
Band12-5MHz-16QAM-23095-25RB#0-4.476



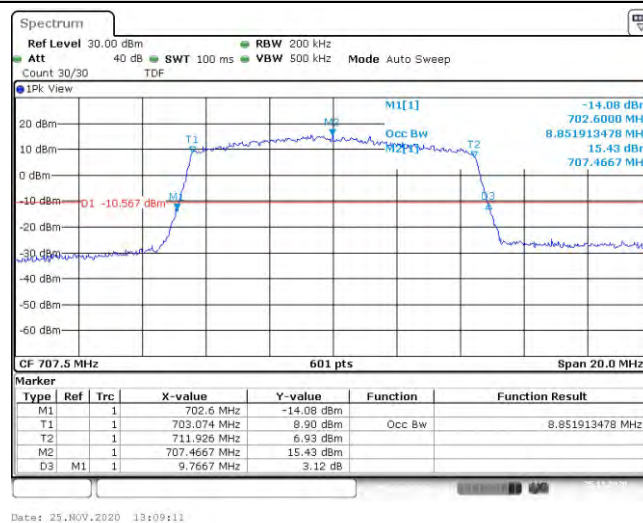
Band12-5MHz-16QAM-23155-25RB#0-4.535



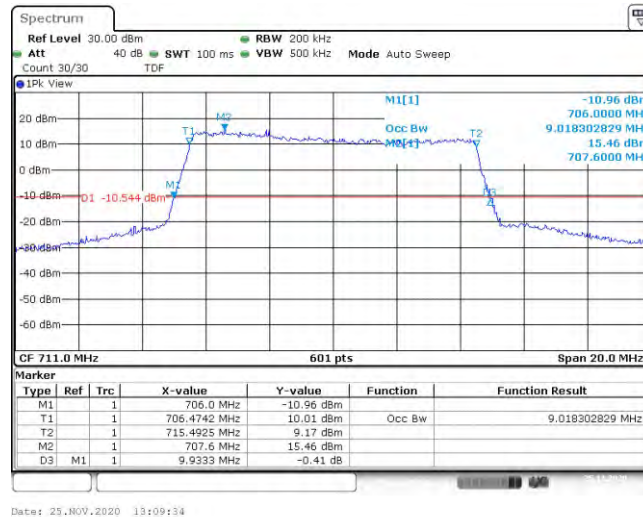
Band12-10MHz-QPSK-23060-50RB#0-8.952



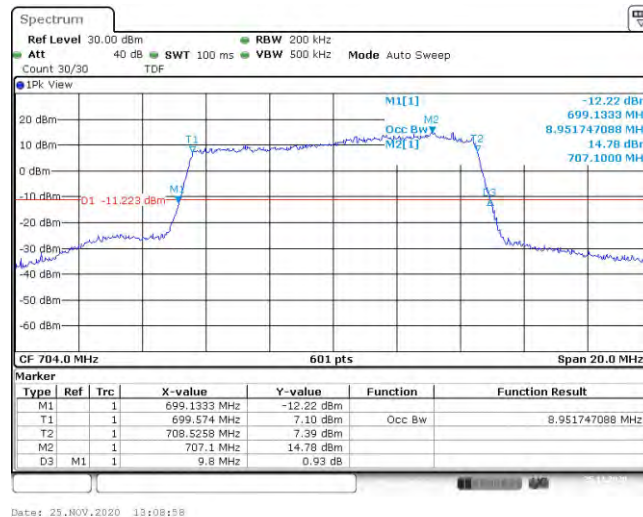
Band12-10MHz-QPSK-23095-50RB#0-8.852



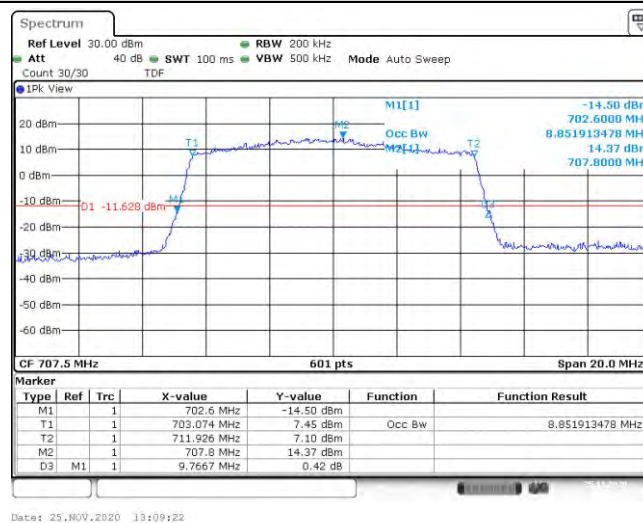
Band12-10MHz-QPSK-23130-50RB#0-9.018



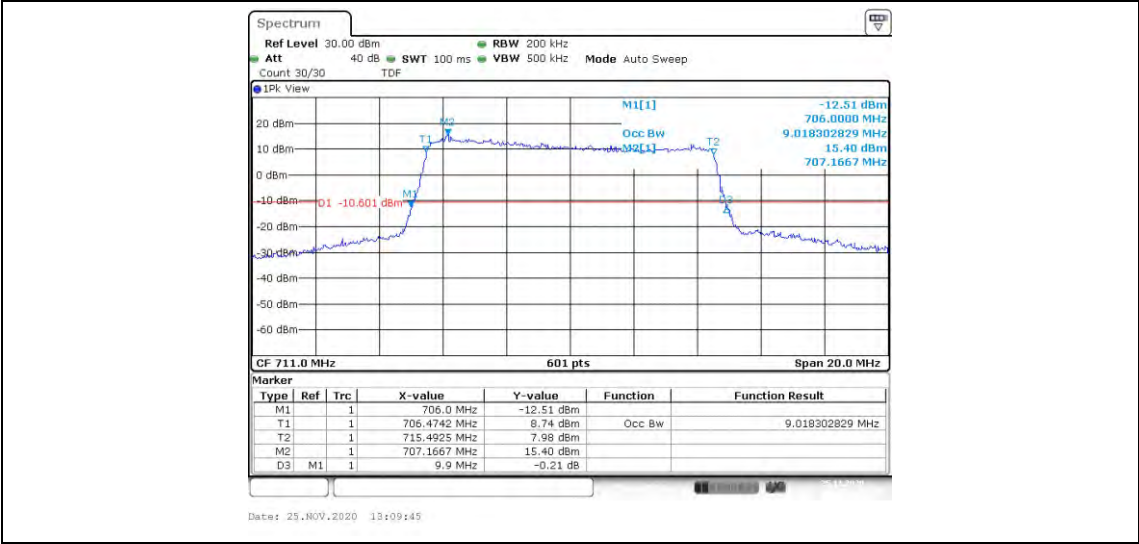
Band12-10MHz-16QAM-23060-50RB#0-8.952



Band12-10MHz-16QAM-23095-50RB#0-8.852



Band12-10MHz-16QAM-23130-50RB#0-9.018

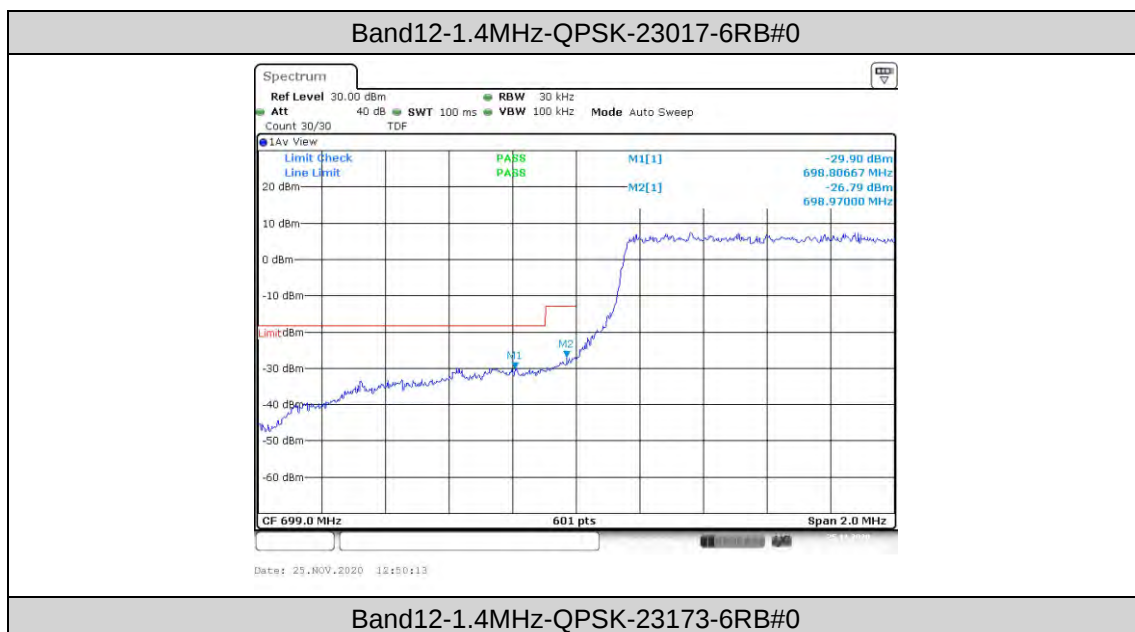


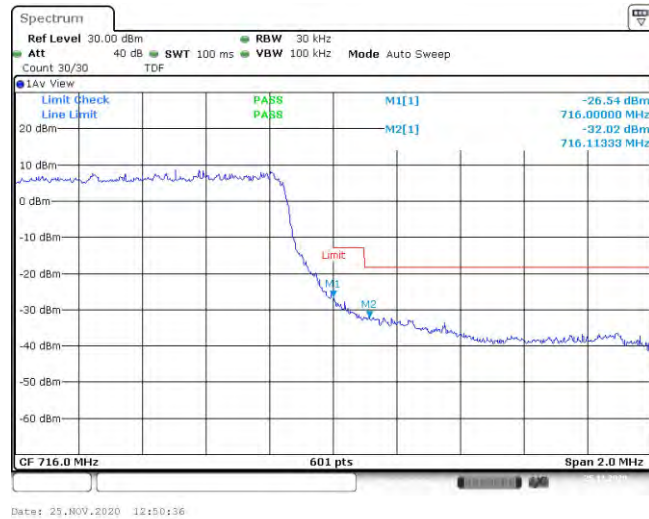
Appendix D: Band Edge

Test Result

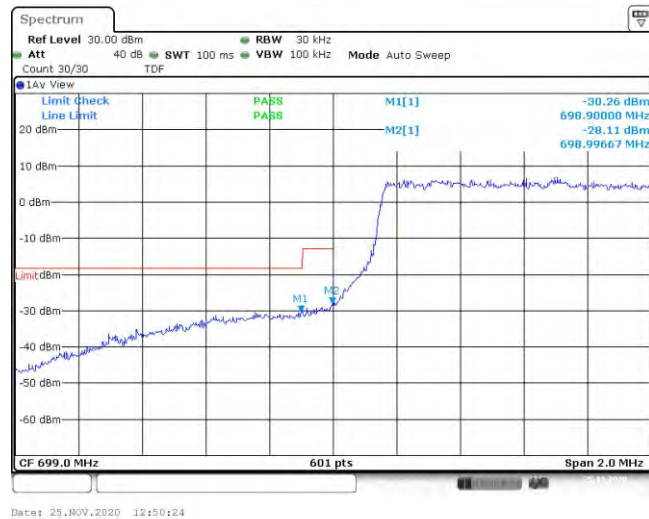
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	-29.90,-26.79	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	-26.54,-32.02	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	-30.26,-28.11	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	-27.27,-31.58	PASS
Band12	3MHz	QPSK	23025	15RB#0	-30.21,-26.12	PASS
Band12	3MHz	QPSK	23165	15RB#0	-25.22,-29.93	PASS
Band12	3MHz	16QAM	23025	15RB#0	-30.58,-26.95	PASS
Band12	3MHz	16QAM	23165	15RB#0	-27.81,-31.84	PASS
Band12	5MHz	QPSK	23035	25RB#0		PASS
Band12	5MHz	QPSK	23155	25RB#0		PASS
Band12	5MHz	16QAM	23035	25RB#0		PASS
Band12	5MHz	16QAM	23155	25RB#0		PASS
Band12	10MHz	QPSK	23060	50RB#0	-31.78,-31.22	PASS
Band12	10MHz	QPSK	23130	50RB#0	-28.36,-28.81	PASS
Band12	10MHz	16QAM	23060	50RB#0	-33.90,-33.16	PASS
Band12	10MHz	16QAM	23130	50RB#0	-30.29,-31.07	PASS

Test Graphs

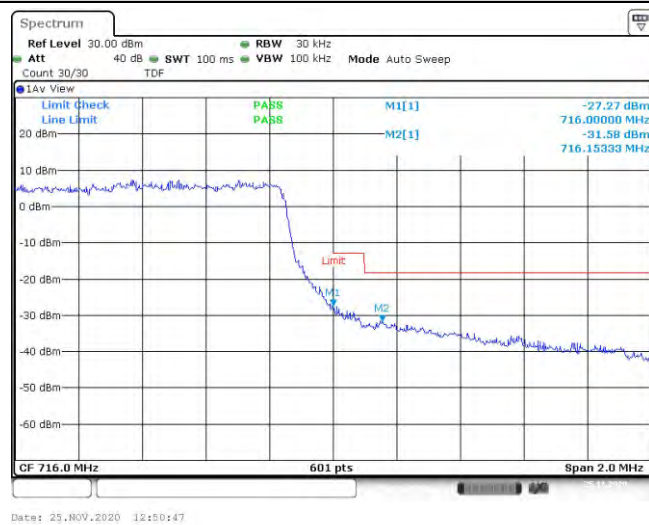




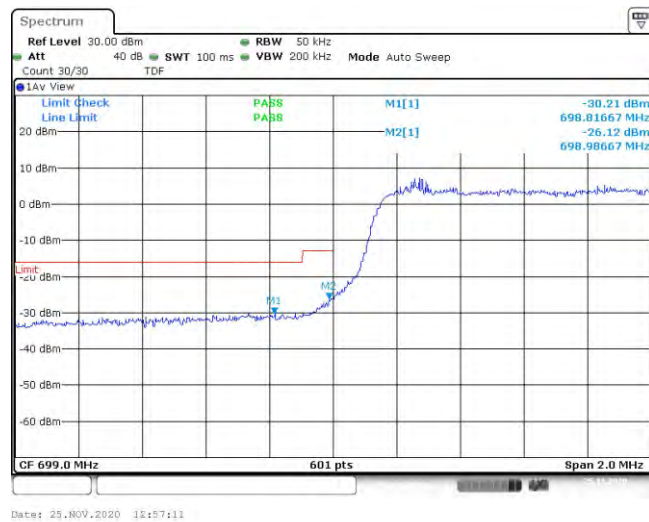
Band12-1.4MHz-16QAM-23017-6RB#0



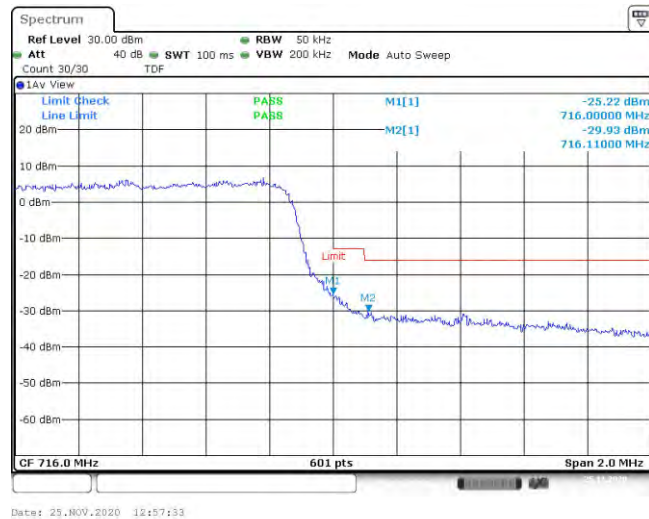
Band12-1.4MHz-16QAM-23173-6RB#0



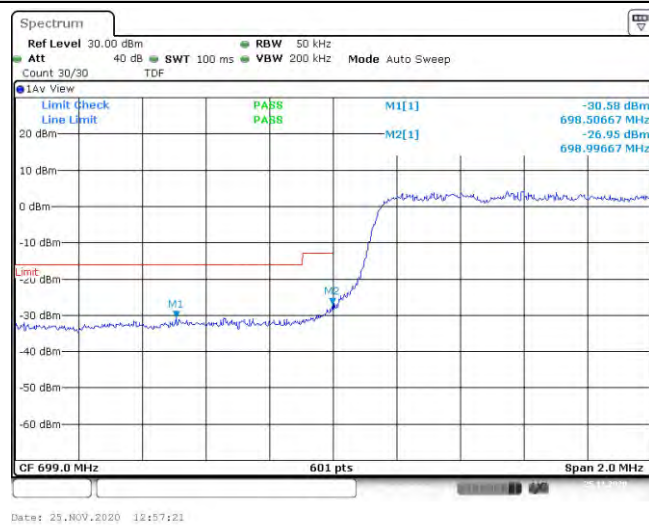
Band12-3MHz-QPSK-23025-15RB#0



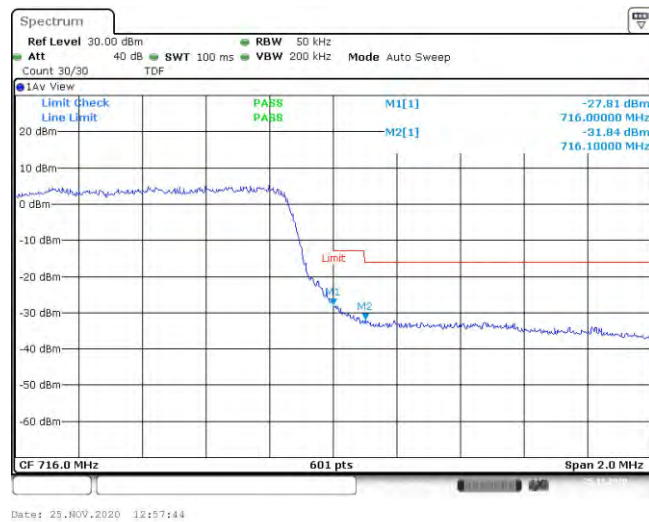
Band12-3MHz-QPSK-23165-15RB#0



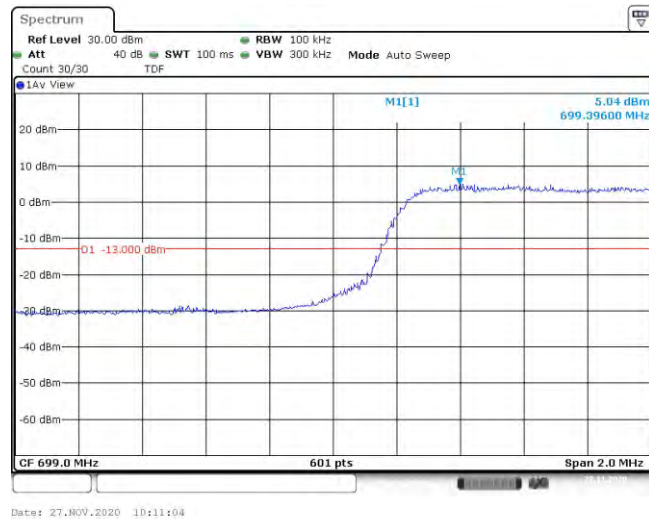
Band12-3MHz-16QAM-23025-15RB#0



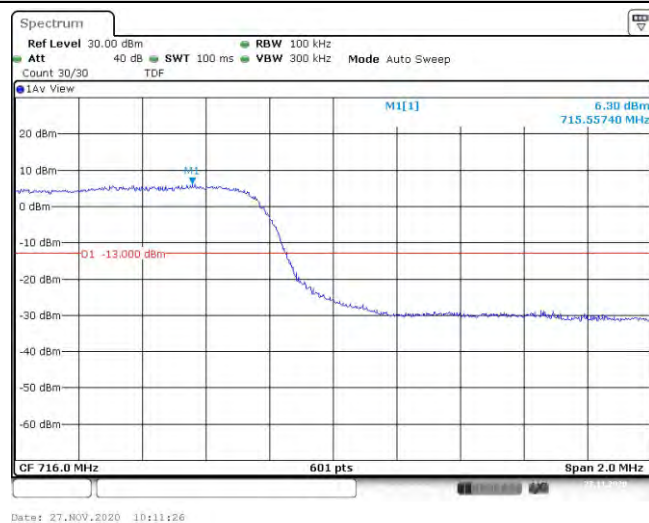
Band12-3MHz-16QAM-23165-15RB#0



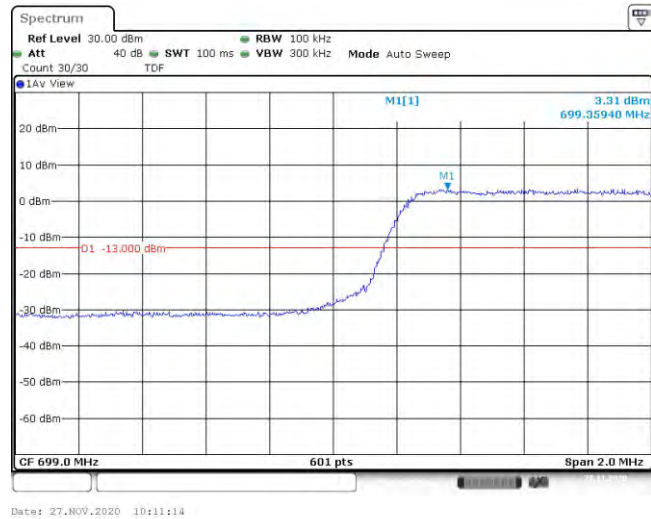
Band12-5MHz-QPSK-23035-25RB#0



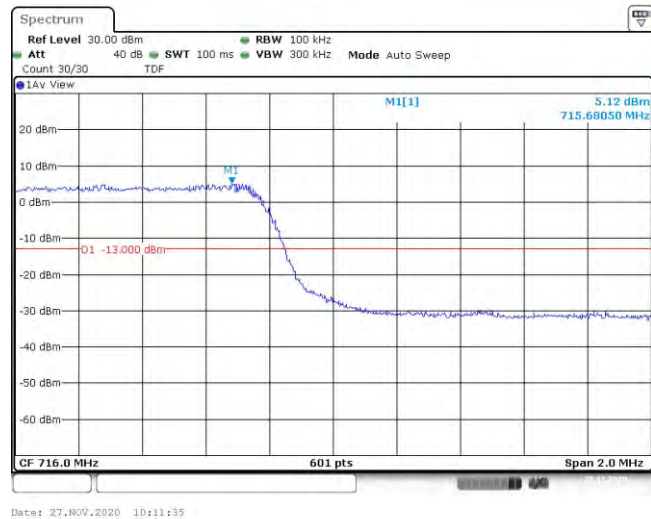
Band12-5MHz-QPSK-23155-25RB#0



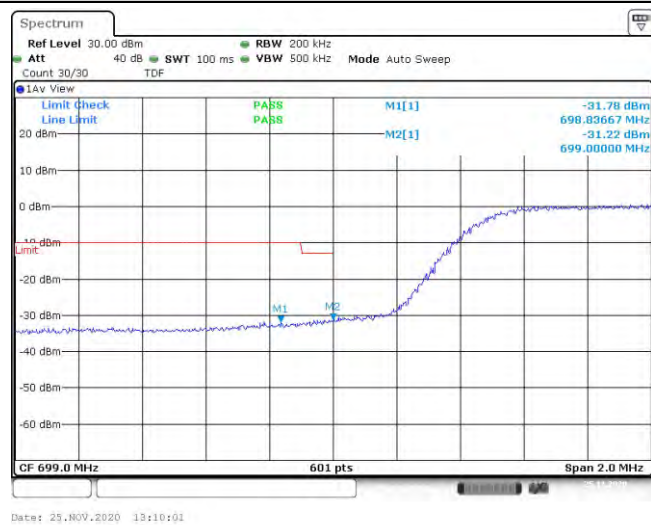
Band12-5MHz-16QAM-23035-25RB#0



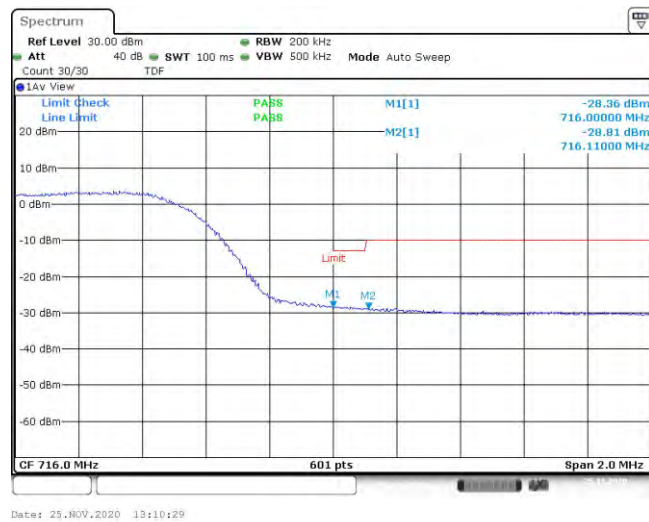
Band12-5MHz-16QAM-23155-25RB#0



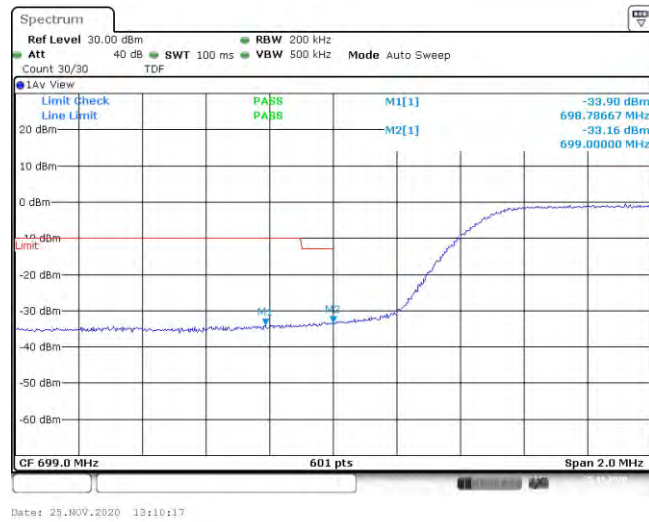
Band12-10MHz-QPSK-23060-50RB#0



Band12-10MHz-QPSK-23130-50RB#0



Band12-10MHz-16QAM-23060-50RB#0



Band12-10MHz-16QAM-23130-50RB#0



Appendix E: Conducted Spurious Emission

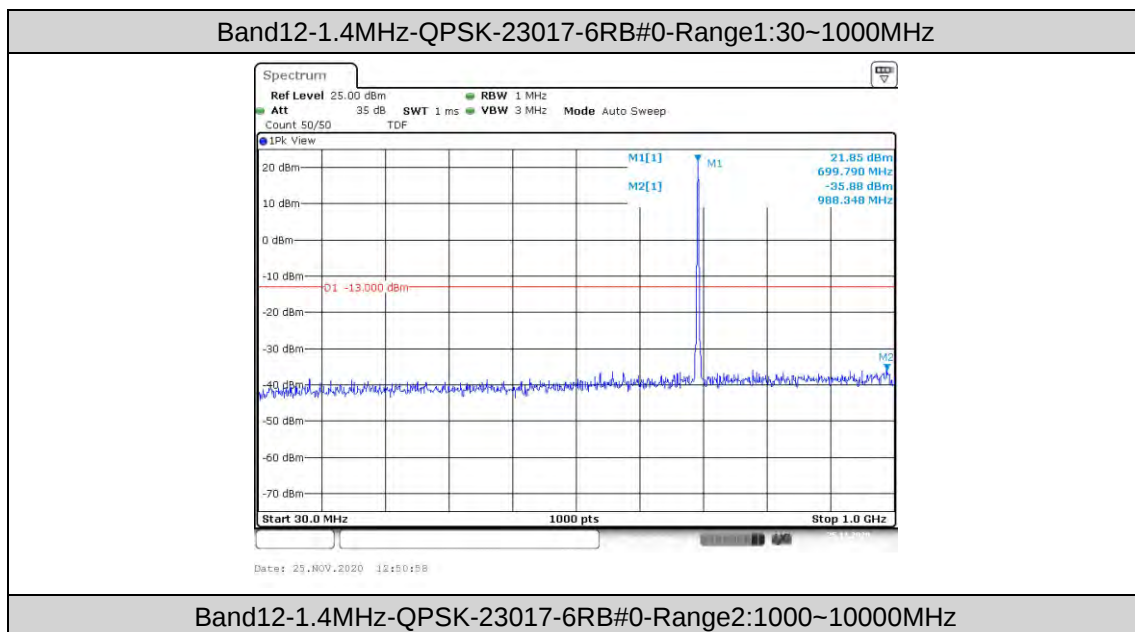
Test Result

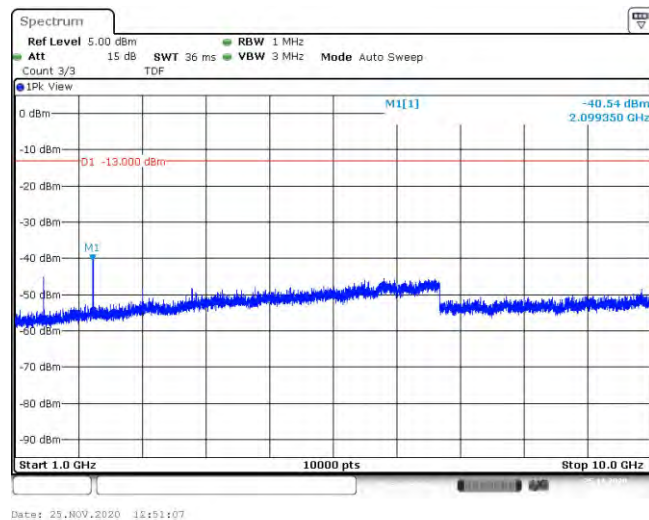
Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band1 2	1.4MHz	QPSK	23017	6RB#0	Range1:30~1000MHz	-35.8 8	PAS S
Band1 2	1.4MHz	QPSK	23017	6RB#0	Range2:1000~10000M Hz	-40.5 4	PAS S
Band1 2	1.4MHz	QPSK	23095	6RB#0	Range1:30~1000MHz	-35.3 6	PAS S
Band1 2	1.4MHz	QPSK	23095	6RB#0	Range2:1000~10000M Hz	-40.7 1	PAS S
Band1 2	1.4MHz	QPSK	23173	6RB#0	Range1:30~1000MHz	-34.9 7	PAS S
Band1 2	1.4MHz	QPSK	23173	6RB#0	Range2:1000~10000M Hz	-38.4 5	PAS S
Band1 2	1.4MHz	16QAM	23017	6RB#0	Range1:30~1000MHz	-35.6 3	PAS S
Band1 2	1.4MHz	16QAM	23017	6RB#0	Range2:1000~10000M Hz	-40.8 3	PAS S
Band1 2	1.4MHz	16QAM	23095	6RB#0	Range1:30~1000MHz	-35.8 1	PAS S
Band1 2	1.4MHz	16QAM	23095	6RB#0	Range2:1000~10000M Hz	-40.1 1	PAS S
Band1 2	1.4MHz	16QAM	23173	6RB#0	Range1:30~1000MHz	-36.1 7	PAS S
Band1 2	1.4MHz	16QAM	23173	6RB#0	Range2:1000~10000M Hz	-38.1 5	PAS S
Band1 2	3MHz	QPSK	23025	15RB#0	Range1:30~1000MHz	-35.3 8	PAS S
Band1 2	3MHz	QPSK	23025	15RB#0	Range2:1000~10000M Hz	-44.5 4	PAS S
Band1 2	3MHz	QPSK	23095	15RB#0	Range1:30~1000MHz	-35.5 9	PAS S
Band1 2	3MHz	QPSK	23095	15RB#0	Range2:1000~10000M Hz	-41.7	PAS S
Band1 2	3MHz	QPSK	23165	15RB#0	Range1:30~1000MHz	-35.0 3	PAS S
Band1	3MHz	QPSK	23165	15RB#0	Range2:1000~10000M	-41.5	PAS

2					Hz	2	S
Band1 2	3MHz	16QAM	23025	15RB#0	Range1:30~1000MHz	-35.6 3	PAS S
Band1 2	3MHz	16QAM	23025	15RB#0	Range2:1000~10000M Hz	-43.5 2	PAS S
Band1 2	3MHz	16QAM	23095	15RB#0	Range1:30~1000MHz	-35.9 2	PAS S
Band1 2	3MHz	16QAM	23095	15RB#0	Range2:1000~10000M Hz	-43.5	PAS S
Band1 2	3MHz	16QAM	23165	15RB#0	Range1:30~1000MHz	-35.6 9	PAS S
Band1 2	3MHz	16QAM	23165	15RB#0	Range2:1000~10000M Hz	-41.1 4	PAS S
Band1 2	5MHz	QPSK	23035	25RB#0	Range1:30~1000MHz	-35.9 9	PAS S
Band1 2	5MHz	QPSK	23035	25RB#0	Range2:1000~10000M Hz	-45.0 2	PAS S
Band1 2	5MHz	QPSK	23095	25RB#0	Range1:30~1000MHz	-35.8 2	PAS S
Band1 2	5MHz	QPSK	23095	25RB#0	Range2:1000~10000M Hz	-43.6	PAS S
Band1 2	5MHz	QPSK	23155	25RB#0	Range1:30~1000MHz	-35.1 3	PAS S
Band1 2	5MHz	QPSK	23155	25RB#0	Range2:1000~10000M Hz	-42.6 9	PAS S
Band1 2	5MHz	16QAM	23035	25RB#0	Range1:30~1000MHz	-35.0 5	PAS S
Band1 2	5MHz	16QAM	23035	25RB#0	Range2:1000~10000M Hz	-42.4 2	PAS S
Band1 2	5MHz	16QAM	23095	25RB#0	Range1:30~1000MHz	-36.4 3	PAS S
Band1 2	5MHz	16QAM	23095	25RB#0	Range2:1000~10000M Hz	-42.1 2	PAS S
Band1 2	5MHz	16QAM	23155	25RB#0	Range1:30~1000MHz	-36.1 2	PAS S
Band1 2	5MHz	16QAM	23155	25RB#0	Range2:1000~10000M Hz	-43.7 4	PAS S
Band1 2	10MHz	QPSK	23060	50RB#0	Range1:30~1000MHz	-35.4 4	PAS S
Band1 2	10MHz	QPSK	23060	50RB#0	Range2:1000~10000M Hz	-41.2	PAS S
Band1 2	10MHz	QPSK	23095	50RB#0	Range1:30~1000MHz	-35.9 4	PAS S

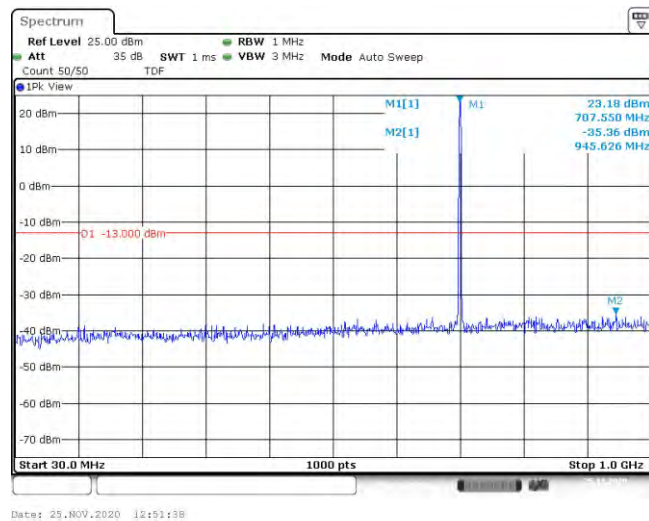
Band1 2	10MHz	QPSK	23095	50RB#0	Range2:1000~10000M Hz	-44.8 5	PAS S
Band1 2	10MHz	QPSK	23130	50RB#0	Range1:30~1000MHz	-35.6 7	PAS S
Band1 2	10MHz	QPSK	23130	50RB#0	Range2:1000~10000M Hz	-44.5 3	PAS S
Band1 2	10MHz	16QAM	23060	50RB#0	Range1:30~1000MHz	-35.6 1	PAS S
Band1 2	10MHz	16QAM	23060	50RB#0	Range2:1000~10000M Hz	-45.0 8	PAS S
Band1 2	10MHz	16QAM	23095	50RB#0	Range1:30~1000MHz	-35.2 1	PAS S
Band1 2	10MHz	16QAM	23095	50RB#0	Range2:1000~10000M Hz	-44.7 3	PAS S
Band1 2	10MHz	16QAM	23130	50RB#0	Range1:30~1000MHz	-35.9 2	PAS S
Band1 2	10MHz	16QAM	23130	50RB#0	Range2:1000~10000M Hz	-44.8 5	PAS S

Test Graphs

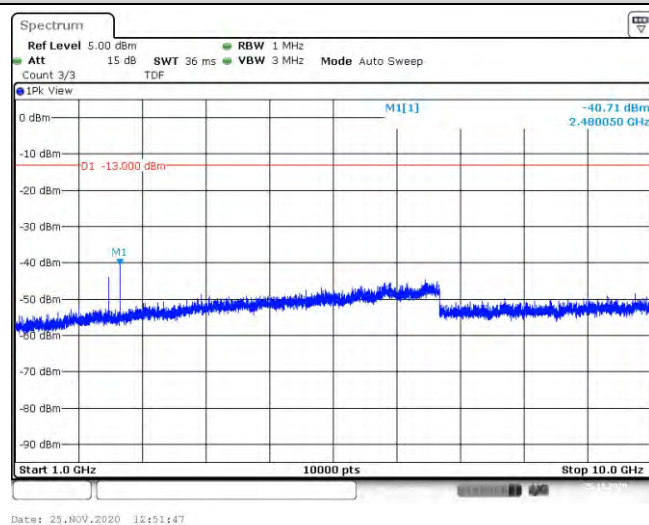




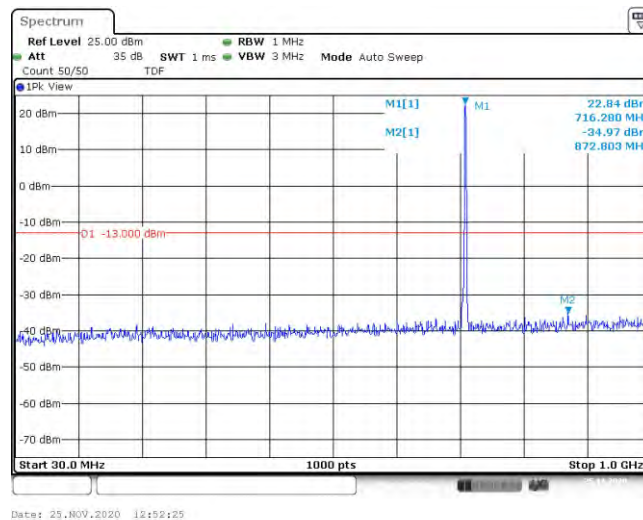
Band12-1.4MHz-QPSK-23095-6RB#0-Range1:30~1000MHz



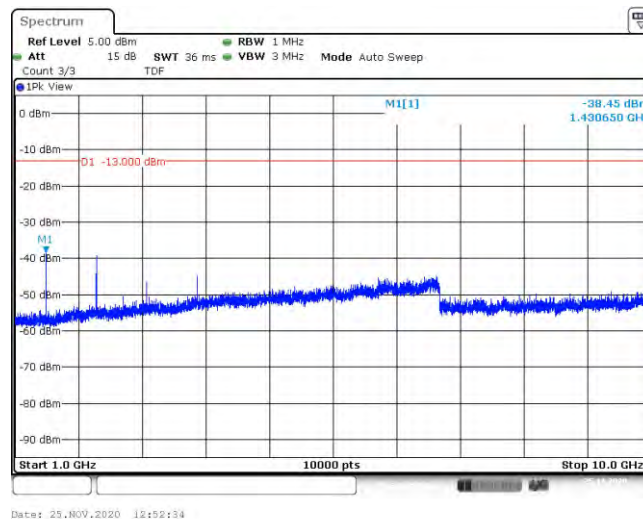
Band12-1.4MHz-QPSK-23095-6RB#0-Range2:1000~10000MHz



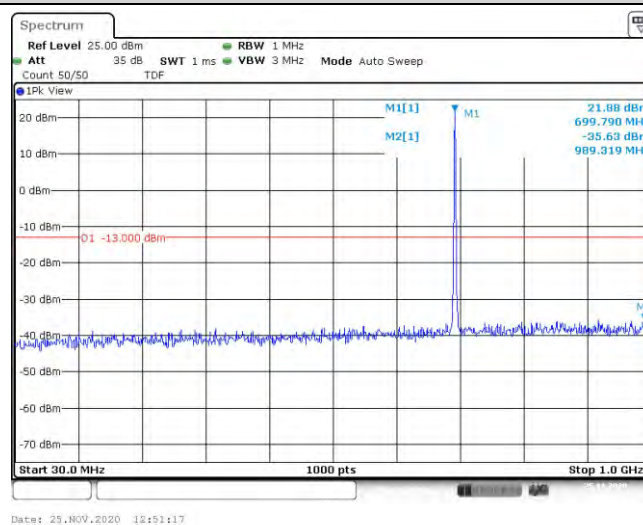
Band12-1.4MHz-QPSK-23173-6RB#0-Range1:30~1000MHz



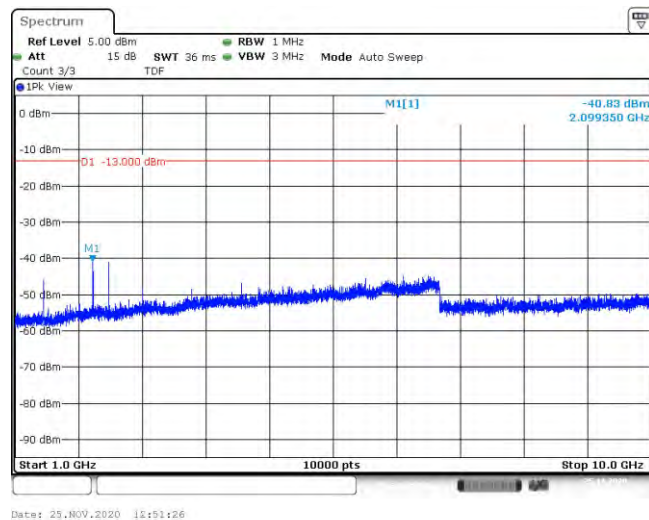
Band12-1.4MHz-QPSK-23173-6RB#0-Range2:1000~10000MHz



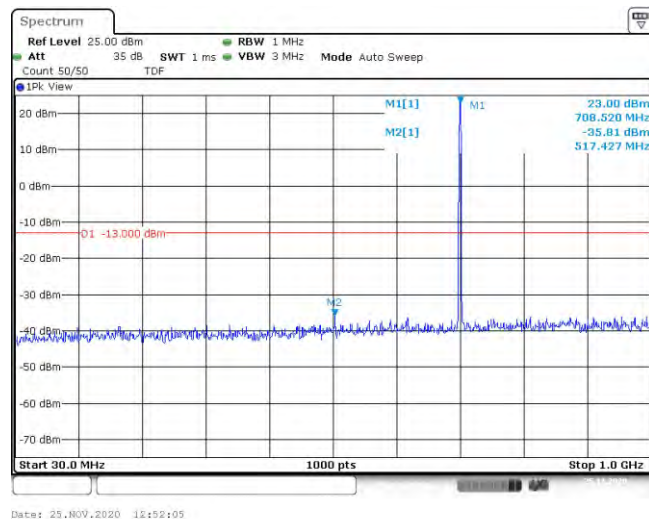
Band12-1.4MHz-16QAM-23017-6RB#0-Range1:30~1000MHz



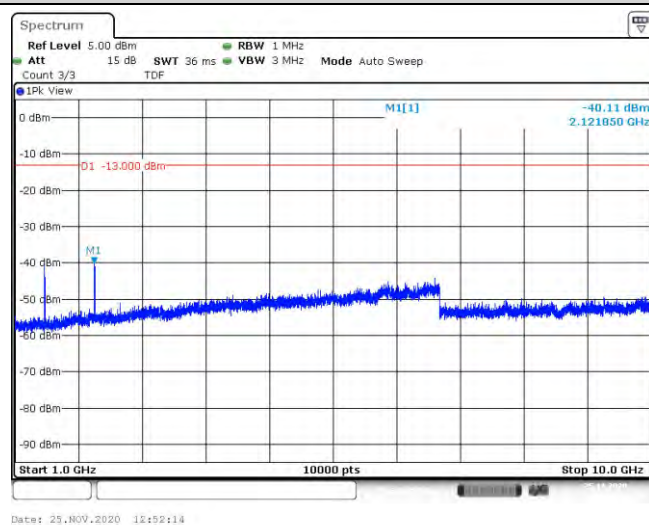
Band12-1.4MHz-16QAM-23017-6RB#0-Range2:1000~10000MHz



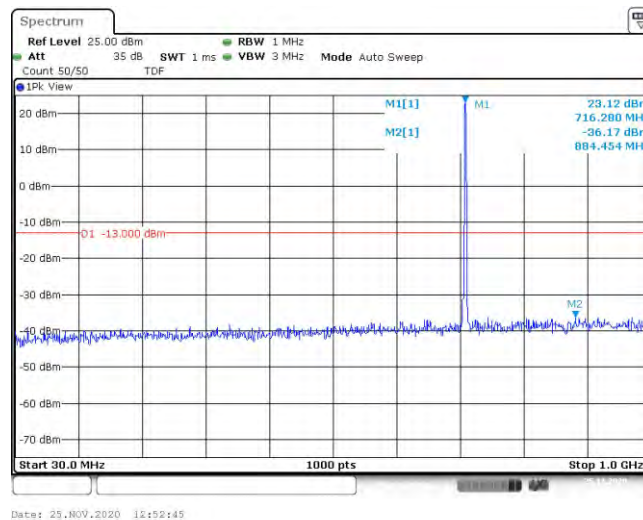
Band12-1.4MHz-16QAM-23095-6RB#0-Range1:30~1000MHz



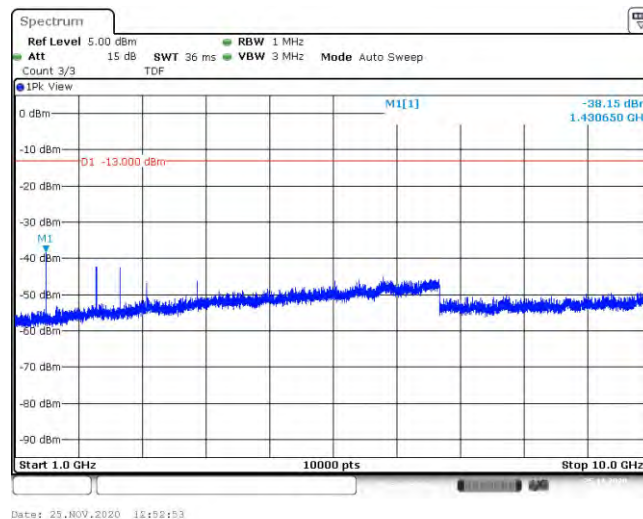
Band12-1.4MHz-16QAM-23095-6RB#0-Range2:1000~10000MHz



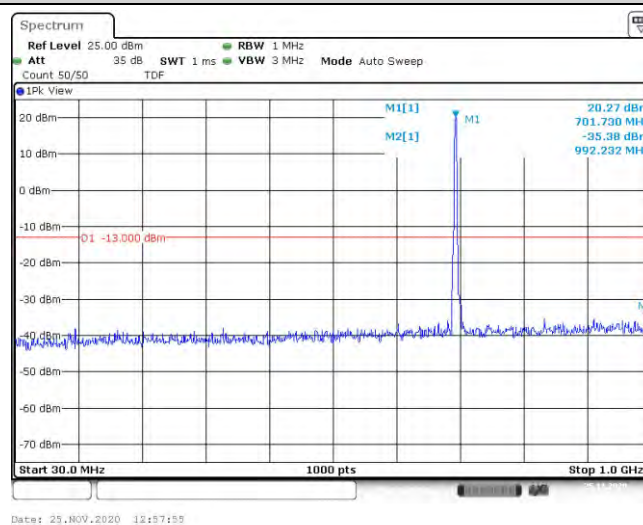
Band12-1.4MHz-16QAM-23173-6RB#0-Range1:30~1000MHz



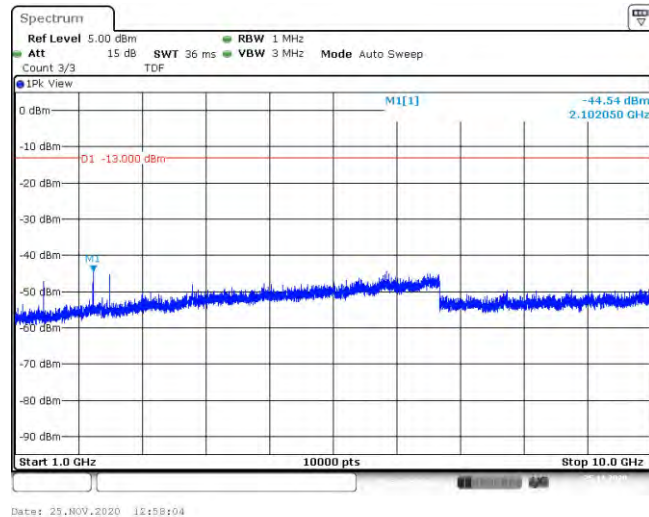
Band12-1.4MHz-16QAM-23173-6RB#0-Range2:1000~10000MHz



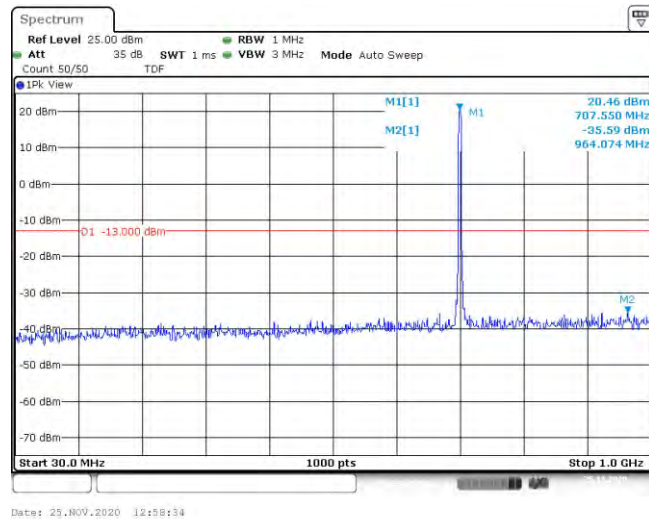
Band12-3MHz-QPSK-23025-15RB#0-Range1:30~1000MHz



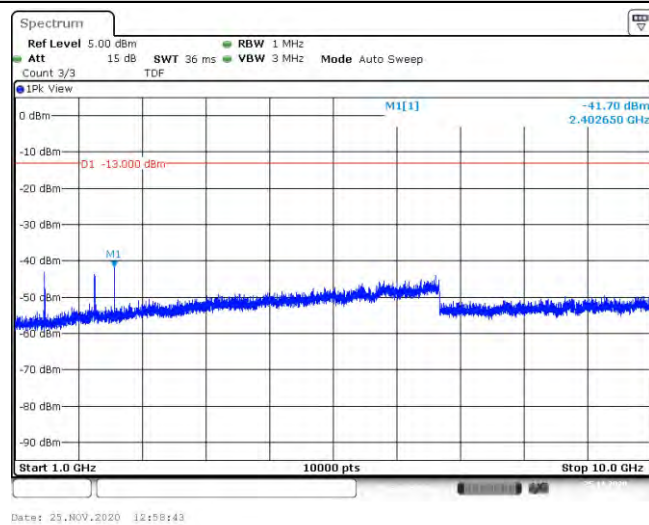
Band12-3MHz-QPSK-23025-15RB#0-Range2:1000~10000MHz



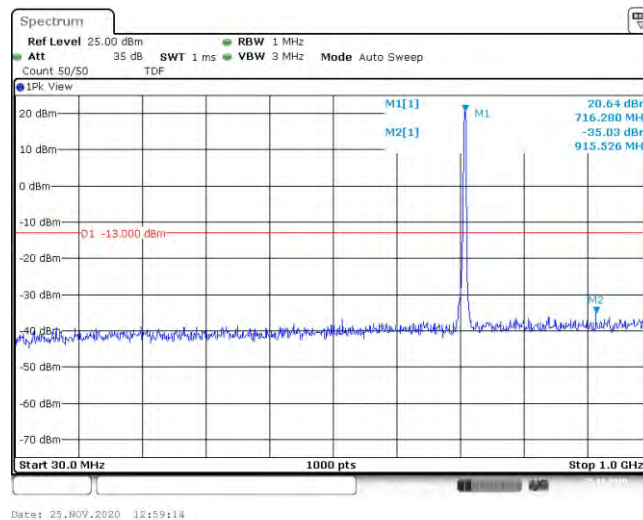
Band12-3MHz-QPSK-23095-15RB#0-Range1:30~1000MHz



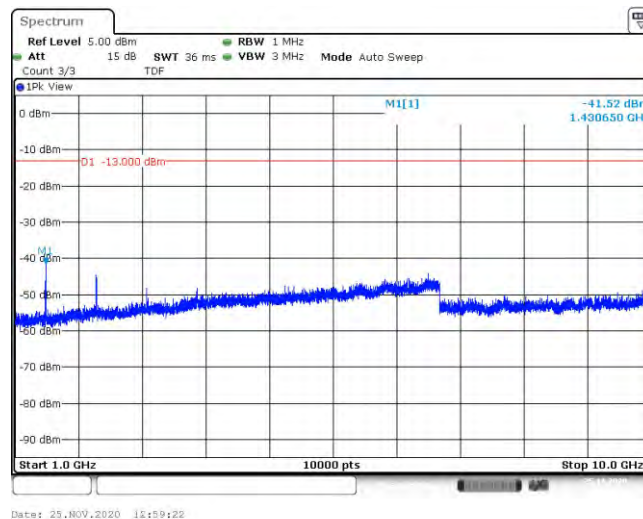
Band12-3MHz-QPSK-23095-15RB#0-Range2:1000~10000MHz



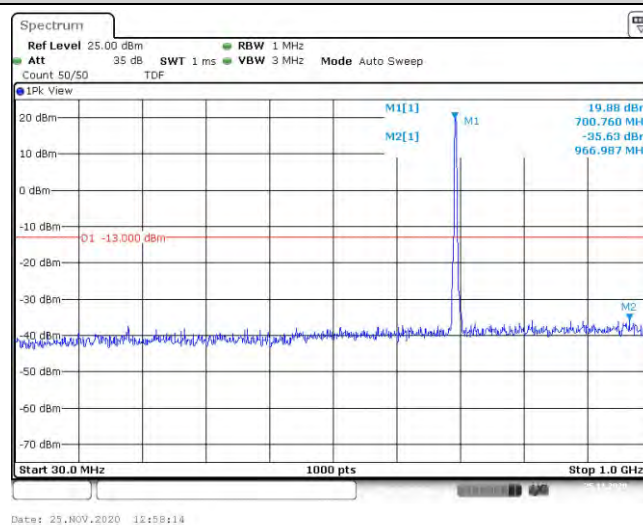
Band12-3MHz-QPSK-23165-15RB#0-Range1:30~1000MHz



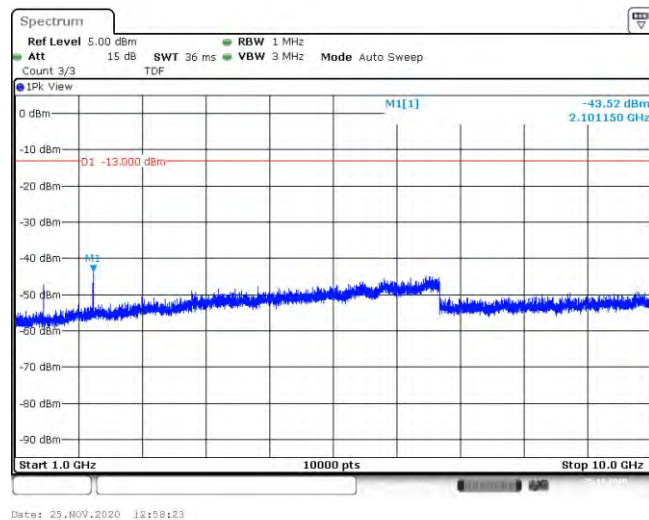
Band12-3MHz-QPSK-23165-15RB#0-Range2:1000~10000MHz



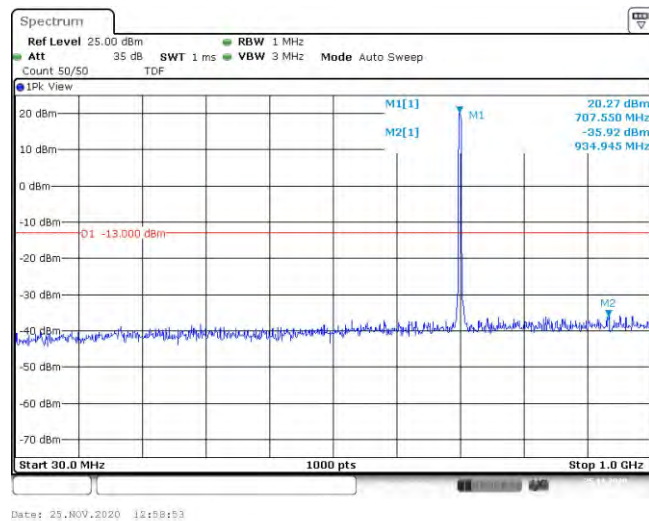
Band12-3MHz-16QAM-23025-15RB#0-Range1:30~1000MHz



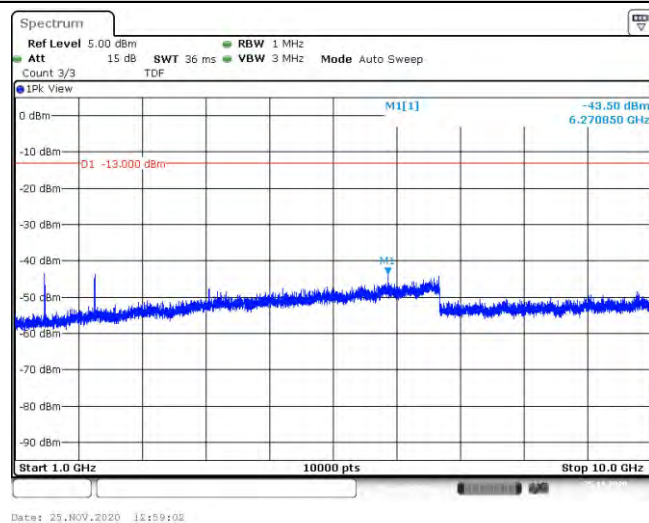
Band12-3MHz-16QAM-23025-15RB#0-Range2:1000~10000MHz



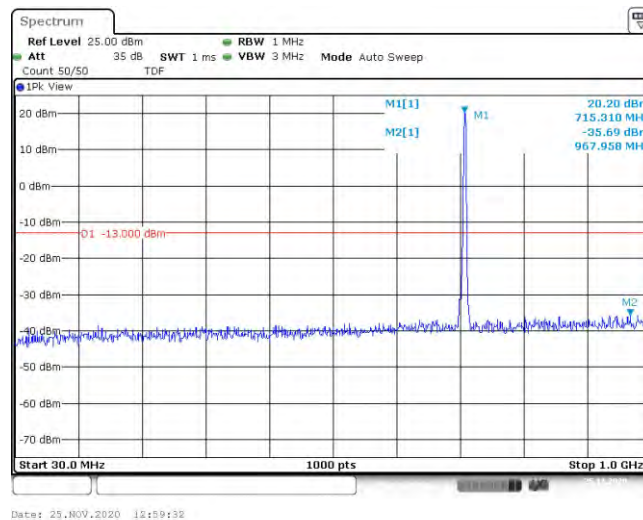
Band12-3MHz-16QAM-23095-15RB#0-Range1:30~1000MHz



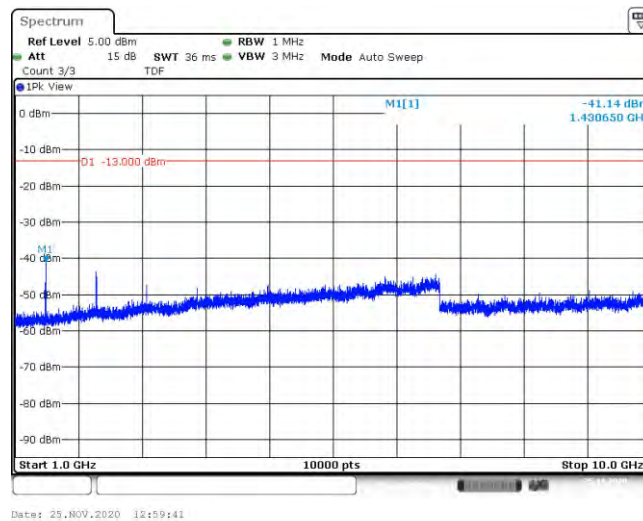
Band12-3MHz-16QAM-23095-15RB#0-Range2:1000~10000MHz



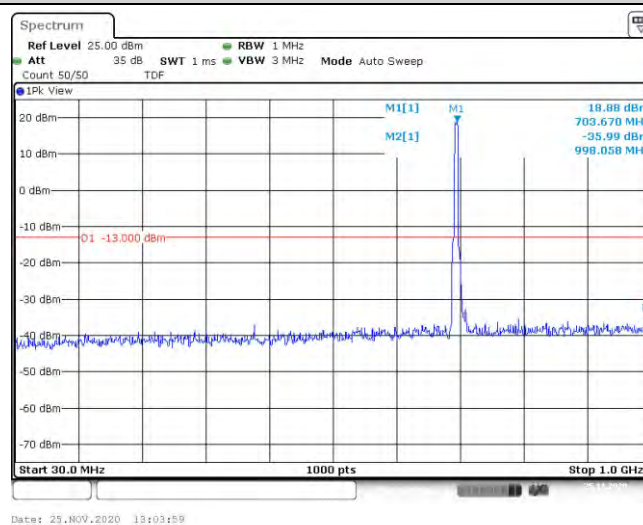
Band12-3MHz-16QAM-23165-15RB#0-Range1:30~1000MHz



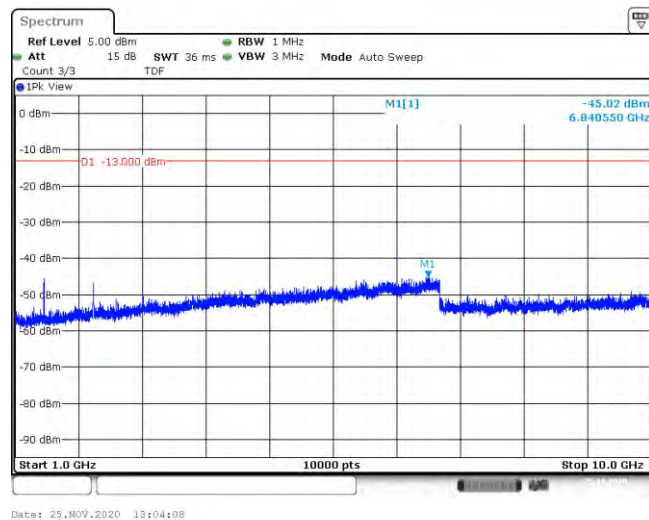
Band12-3MHz-16QAM-23165-15RB#0-Range2:1000~10000MHz



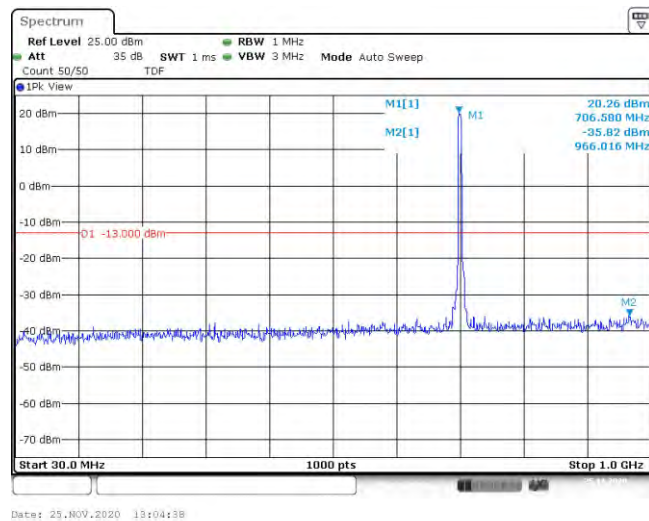
Band12-5MHz-QPSK-23035-25RB#0-Range1:30~1000MHz



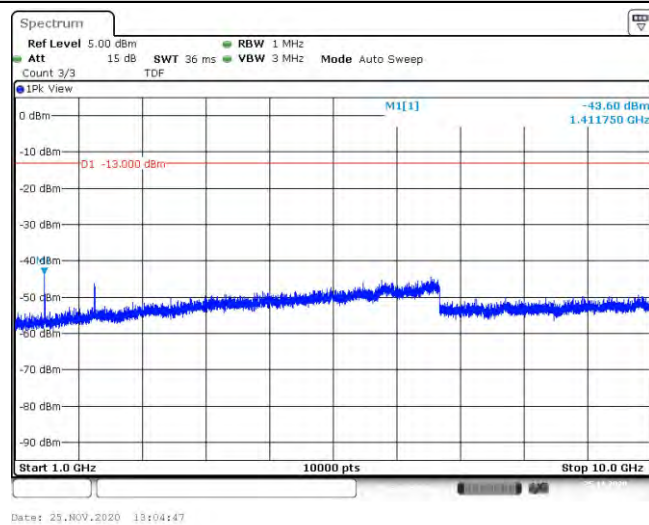
Band12-5MHz-QPSK-23035-25RB#0-Range2:1000~10000MHz



Band12-5MHz-QPSK-23095-25RB#0-Range1:30~1000MHz



Band12-5MHz-QPSK-23095-25RB#0-Range2:1000~10000MHz



Band12-5MHz-QPSK-23155-25RB#0-Range1:30~1000MHz

The screenshot shows a Spectrum Analyzer interface. At the top, the title is "Spectrum". Below it, the settings are: Ref Level 5.00 dBm, Att 15 dB, RBW 1 MHz, SWT 36 ms, VBW 3 MHz, Mode Auto Sweep, and Count 3/3. The main display area shows a "1Pk View" of the spectrum. The y-axis represents power in dBm, ranging from 0 to -90. The x-axis represents frequency in GHz, ranging from 1.0 to 10.0. A blue trace shows the spectrum, which is mostly flat with some noise. A red horizontal line is drawn at -13.000 dBm, labeled "D1". A blue peak is labeled "M1[1]" at -42.69 dBm and 1.431550 GHz. The bottom status bar shows "Start 1.0 GHz", "10000 pts", and "Stop 10.0 GHz". The date and time at the bottom are "Date: 25, NOV. 2020 13:05:26".

Spectrum

Ref Level 25.00 dBm RBW 1 MHz
 Att 35 dB SWT 1 ms VBW 3 MHz Mode Auto Sweep
 Count 50/50 TDF

1Pk View

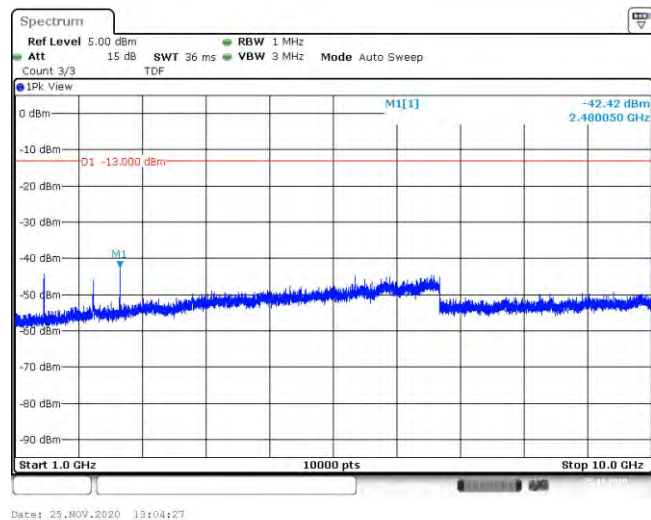
20 dBm
 10 dBm
 0 dBm
 -10 dBm
 -20 dBm
 -30 dBm
 -40 dBm
 -50 dBm
 -60 dBm
 -70 dBm

M1[1] M1 19.61 dBm
 703.670 MHz
 M2[1] -35.05 dBm
 955.335 MHz

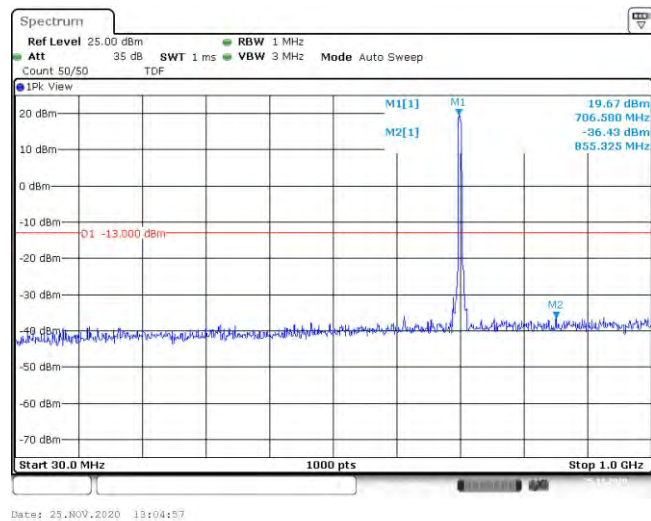
01 -13.000 dBm

Start 30.0 MHz 1000 pts Stop 1.0 GHz

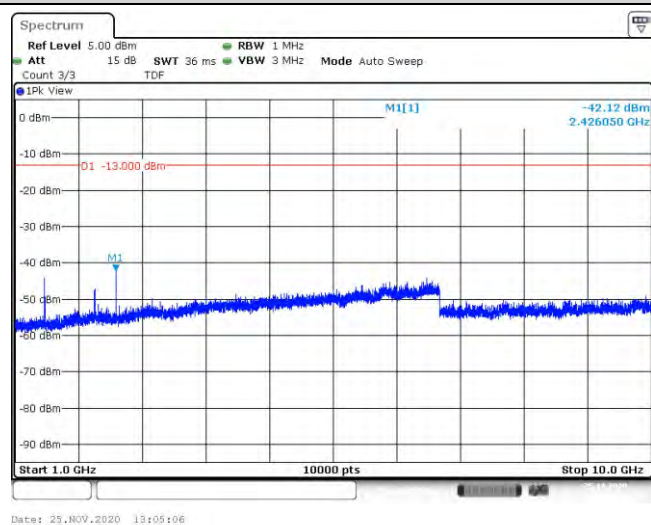
Date: 25.NOV.2020 13:04:18



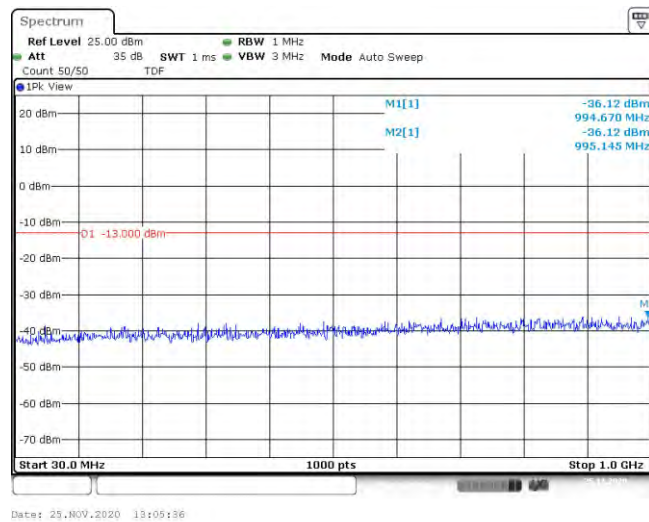
Band12-5MHz-16QAM-23095-25RB#0-Range1:30~1000MHz



Band12-5MHz-16QAM-23095-25RB#0-Range2:1000~10000MHz

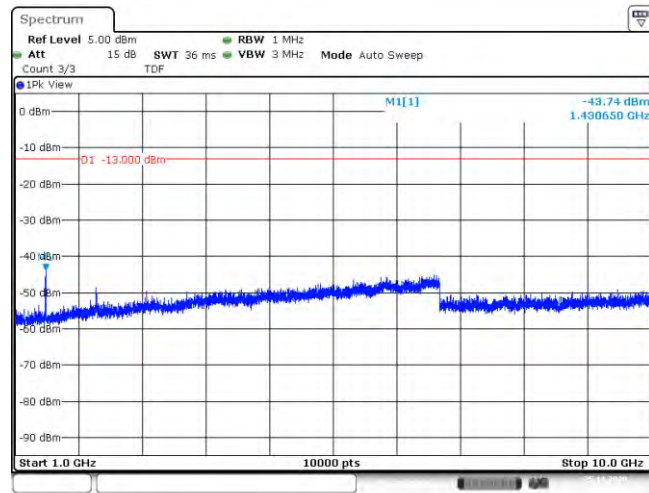


Band12-5MHz-16QAM-23155-25RB#0-Range1:30~1000MHz



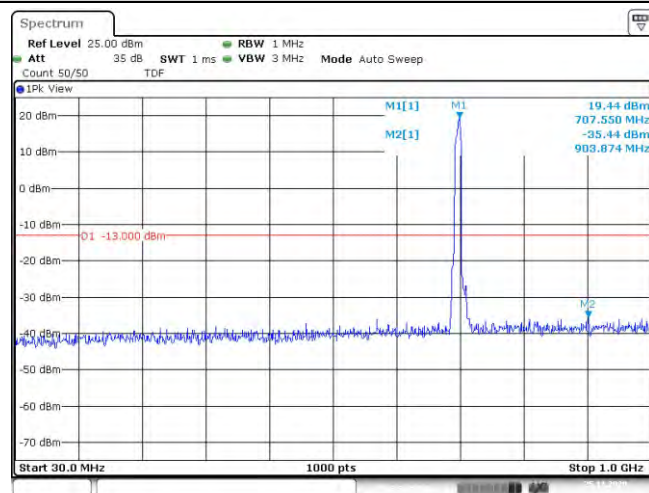
Date: 25.NOV.2020 13:09:36

Band12-5MHz-16QAM-23155-25RB#0-Range2:1000~10000MHz



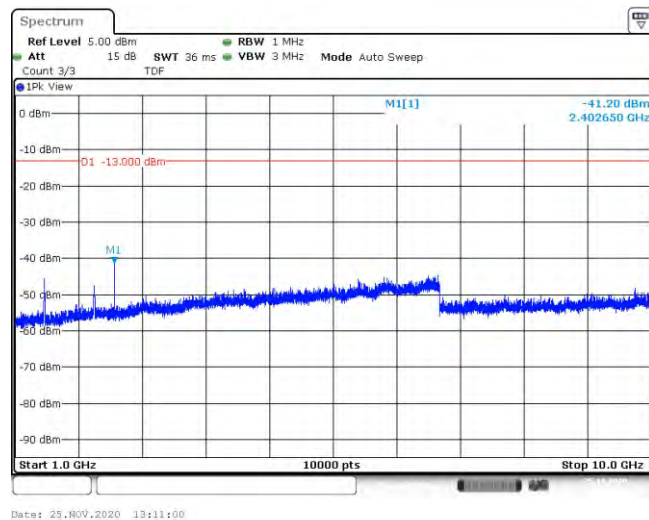
Date: 25.NOV.2020 13:09:45

Band12-10MHz-QPSK-23060-50RB#0-Range1:30~1000MHz

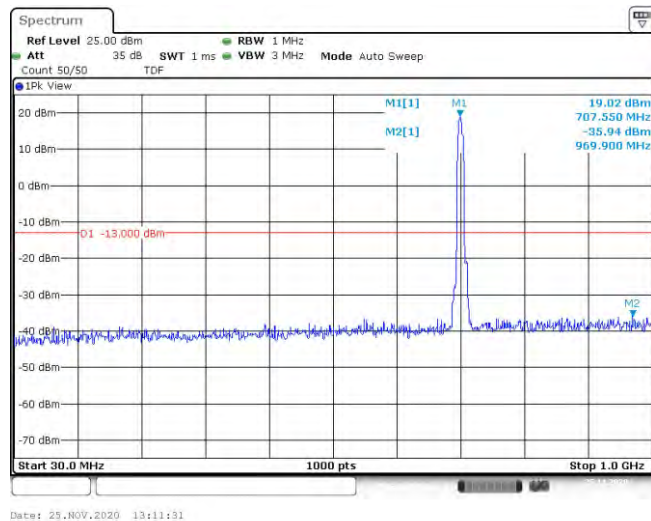


Date: 25.NOV.2020 13:10:51

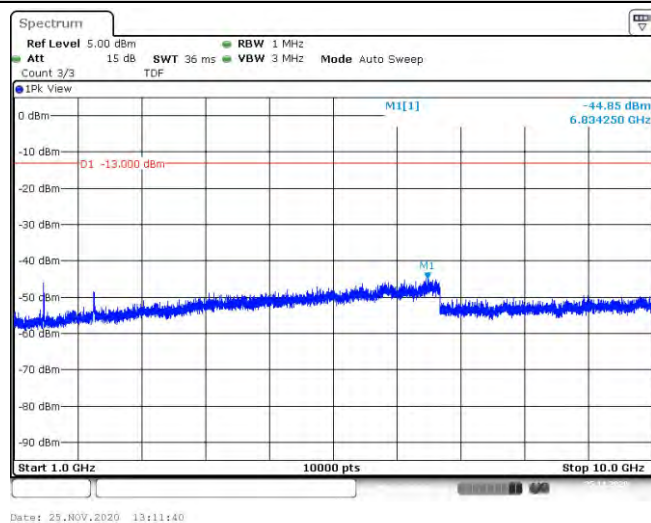
Band12-10MHz-QPSK-23060-50RB#0-Range2:1000~10000MHz



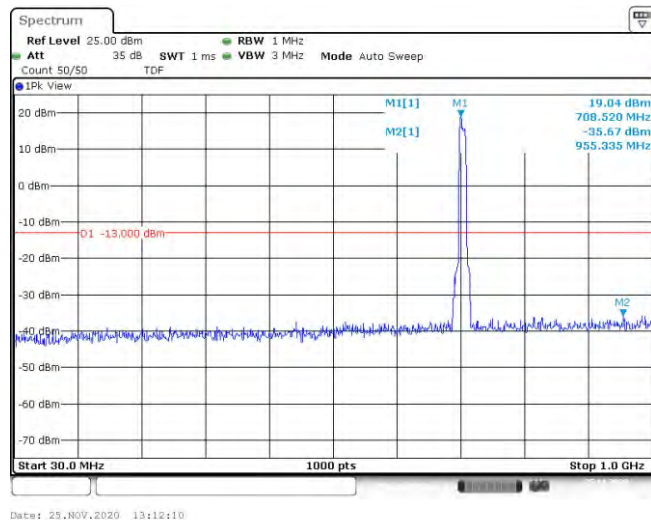
Band12-10MHz-QPSK-23095-50RB#0-Range1:30~1000MHz



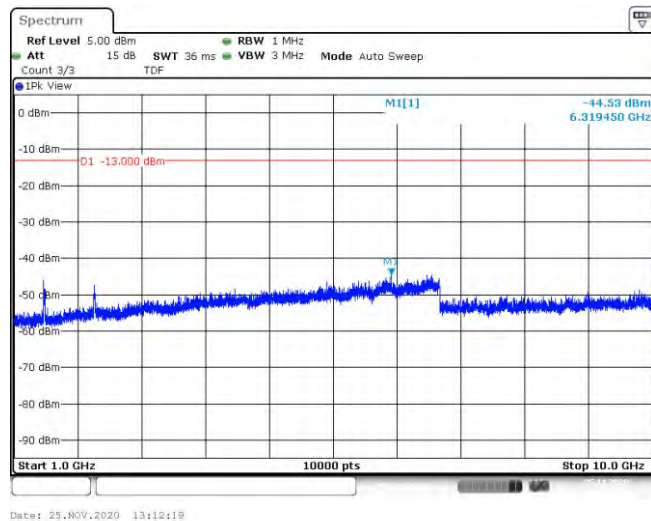
Band12-10MHz-QPSK-23095-50RB#0-Range2:1000~10000MHz



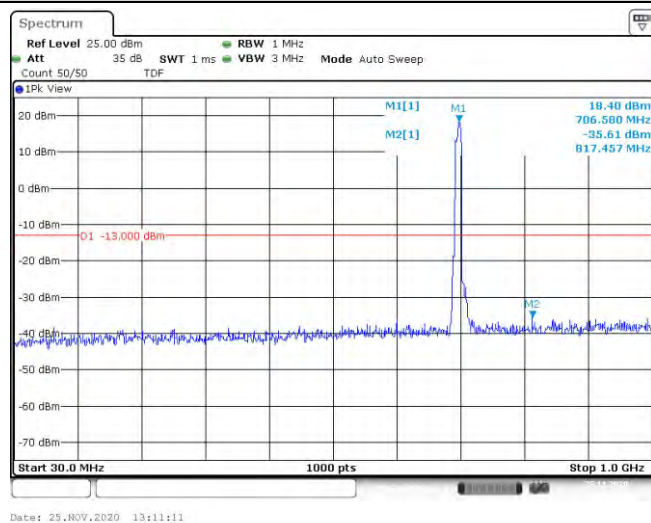
Band12-10MHz-QPSK-23130-50RB#0-Range1:30~1000MHz



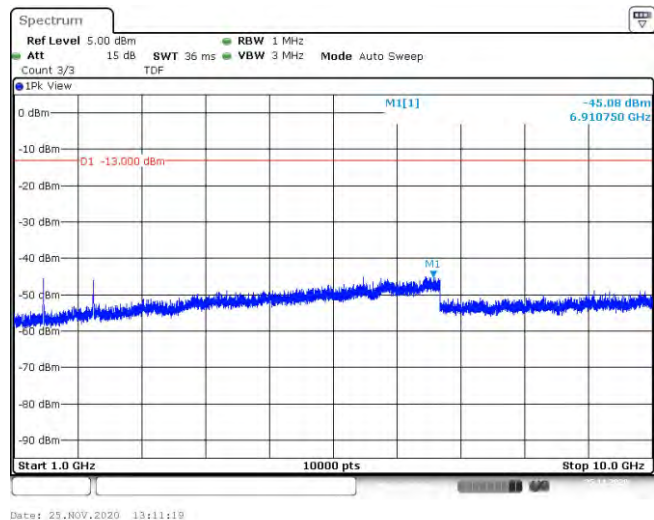
Band12-10MHz-QPSK-23130-50RB#0-Range2:1000~10000MHz



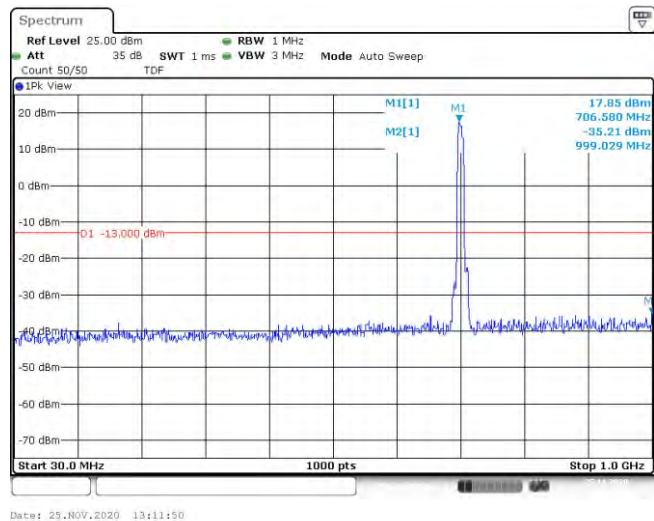
Band12-10MHz-16QAM-23060-50RB#0-Range1:30~1000MHz



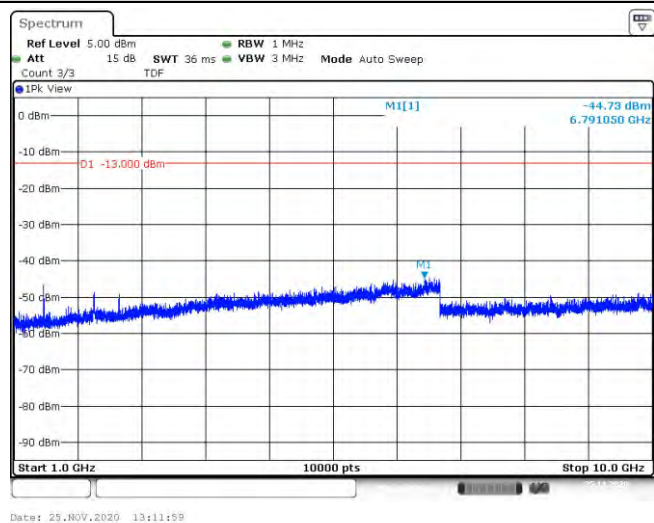
Band12-10MHz-16QAM-23060-50RB#0-Range2:1000~10000MHz



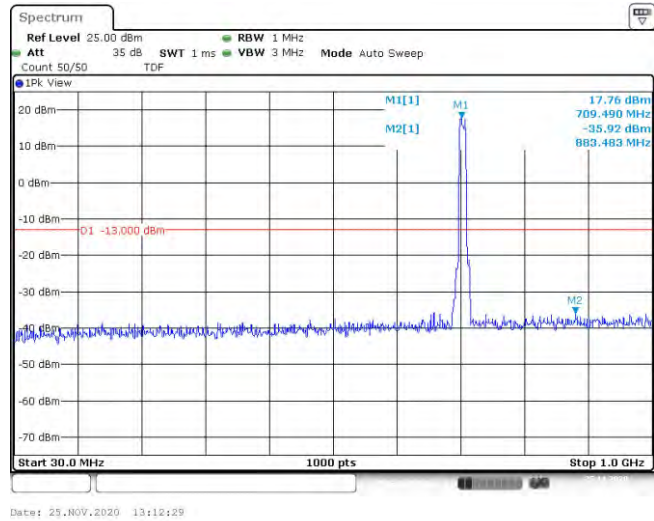
Band12-10MHz-16QAM-23095-50RB#0-Range1:30~1000MHz



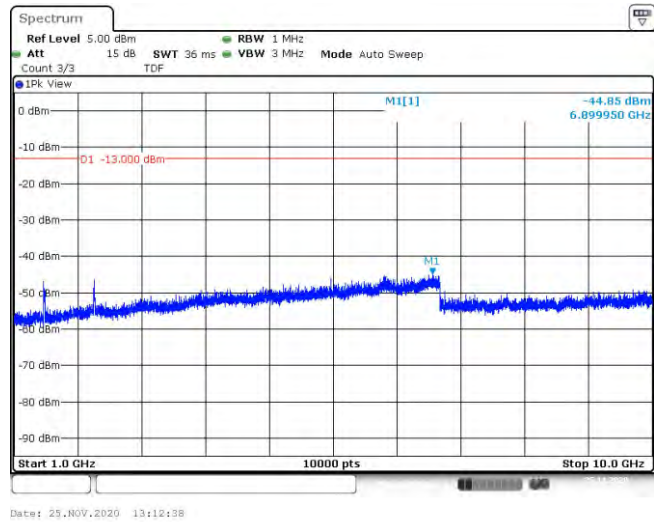
Band12-10MHz-16QAM-23095-50RB#0-Range2:1000~10000MHz



Band12-10MHz-16QAM-23130-50RB#0-Range1:30~1000MHz



Band12-10MHz-16QAM-23130-50RB#0-Range2:1000~10000MHz



Appendix F: Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Voltage		Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
					Voltage [Vdc]	Temperature (°C)				
Band1 2	1.4MHz	QPSK	23017	6RB#0	VL	NT	-5.59	-0.007989	±2.5	PASS
Band1 2	1.4MHz	QPSK	23017	6RB#0	VN	NT	11.97	0.017107	±2.5	PASS
Band1 2	1.4MHz	QPSK	23017	6RB#0	VH	NT	-27.94	-0.039931	±2.5	PASS
Band1 2	1.4MHz	QPSK	23095	6RB#0	VL	NT	38.44	0.054332	±2.5	PASS
Band1 2	1.4MHz	QPSK	23095	6RB#0	VN	NT	14.09	0.019915	±2.5	PASS
Band1 2	1.4MHz	QPSK	23095	6RB#0	VH	NT	7.25	0.010247	±2.5	PASS
Band1 2	1.4MHz	QPSK	23173	6RB#0	VL	NT	34.09	0.047658	±2.5	PASS
Band1 2	1.4MHz	QPSK	23173	6RB#0	VN	NT	22.02	0.030784	±2.5	PASS
Band1 2	1.4MHz	QPSK	23173	6RB#0	VH	NT	24.16	0.033776	±2.5	PASS
Band1 2	1.4MHz	16QAM	23017	6RB#0	VL	NT	-11.06	-0.015807	±2.5	PASS
Band1 2	1.4MHz	16QAM	23017	6RB#0	VN	NT	-3.93	-0.005617	±2.5	PASS
Band1 2	1.4MHz	16QAM	23017	6RB#0	VH	NT	-17.19	-0.024568	±2.5	PASS
Band1 2	1.4MHz	16QAM	23095	6RB#0	VL	NT	23.09	0.032636	±2.5	PASS
Band1 2	1.4MHz	16QAM	23095	6RB#0	VN	NT	7.95	0.011237	±2.5	PASS
Band1 2	1.4MHz	16QAM	23095	6RB#0	VH	NT	41.33	0.058417	±2.5	PASS
Band1 2	1.4MHz	16QAM	23173	6RB#0	VL	NT	-32.29	-0.045142	±2.5	PASS
Band1 2	1.4MHz	16QAM	23173	6RB#0	VN	NT	-30.27	-0.042318	±2.5	PASS
Band1	1.4MHz	16QAM	23173	6RB#0	VH	NT	-31.84	-0.044513	±2.5	PASS

2										
Band1 2	3MHz	QPSK	23025	15RB#0	VL	NT	11.10	0.015846	±2.5	PASS
Band1 2	3MHz	QPSK	23025	15RB#0	VN	NT	22.47	0.032077	±2.5	PASS
Band1 2	3MHz	QPSK	23025	15RB#0	VH	NT	-17.85	-0.025482	±2.5	PASS
Band1 2	3MHz	QPSK	23095	15RB#0	VL	NT	21.37	0.030205	±2.5	PASS
Band1 2	3MHz	QPSK	23095	15RB#0	VN	NT	2.46	0.003477	±2.5	PASS
Band1 2	3MHz	QPSK	23095	15RB#0	VH	NT	38.65	0.054629	±2.5	PASS
Band1 2	3MHz	QPSK	23165	15RB#0	VL	NT	15.81	0.022127	±2.5	PASS
Band1 2	3MHz	QPSK	23165	15RB#0	VN	NT	9.50	0.013296	±2.5	PASS
Band1 2	3MHz	QPSK	23165	15RB#0	VH	NT	2.99	0.004185	±2.5	PASS
Band1 2	3MHz	16QAM	23025	15RB#0	VL	NT	-11.54	-0.016474	±2.5	PASS
Band1 2	3MHz	16QAM	23025	15RB#0	VN	NT	-48.32	-0.068979	±2.5	PASS
Band1 2	3MHz	16QAM	23025	15RB#0	VH	NT	-19.11	-0.027281	±2.5	PASS
Band1 2	3MHz	16QAM	23095	15RB#0	VL	NT	36.15	0.051095	±2.5	PASS
Band1 2	3MHz	16QAM	23095	15RB#0	VN	NT	21.77	0.030770	±2.5	PASS
Band1 2	3MHz	16QAM	23095	15RB#0	VH	NT	12.77	0.018049	±2.5	PASS
Band1 2	3MHz	16QAM	23165	15RB#0	VL	NT	-25.82	-0.036137	±2.5	PASS
Band1 2	3MHz	16QAM	23165	15RB#0	VN	NT	-25.82	-0.036137	±2.5	PASS
Band1 2	3MHz	16QAM	23165	15RB#0	VH	NT	-27.82	-0.038936	±2.5	PASS
Band1 2	5MHz	QPSK	23035	25RB#0	VL	NT	2.72	0.003877	±2.5	PASS
Band1 2	5MHz	QPSK	23035	25RB#0	VN	NT	17.77	0.025331	±2.5	PASS
Band1 2	5MHz	QPSK	23035	25RB#0	VH	NT	-26.08	-0.037177	±2.5	PASS

Band1 2	5MHz	QPSK	23095	25RB#0	VL	NT	10.61	0.014996	±2.5	PASS
Band1 2	5MHz	QPSK	23095	25RB#0	VN	NT	-4.91	-0.006940	±2.5	PASS
Band1 2	5MHz	QPSK	23095	25RB#0	VH	NT	27.71	0.039166	±2.5	PASS
Band1 2	5MHz	QPSK	23155	25RB#0	VL	NT	11.26	0.015781	±2.5	PASS
Band1 2	5MHz	QPSK	23155	25RB#0	VN	NT	8.37	0.011731	±2.5	PASS
Band1 2	5MHz	QPSK	23155	25RB#0	VH	NT	-6.11	-0.008563	±2.5	PASS
Band1 2	5MHz	16QAM	23035	25RB#0	VL	NT	-35.38	-0.050435	±2.5	PASS
Band1 2	5MHz	16QAM	23035	25RB#0	VN	NT	-25.55	-0.036422	±2.5	PASS
Band1 2	5MHz	16QAM	23035	25RB#0	VH	NT	-38.98	-0.055567	±2.5	PASS
Band1 2	5MHz	16QAM	23095	25RB#0	VL	NT	8.77	0.012396	±2.5	PASS
Band1 2	5MHz	16QAM	23095	25RB#0	VN	NT	2.86	0.004042	±2.5	PASS
Band1 2	5MHz	16QAM	23095	25RB#0	VH	NT	22.07	0.031194	±2.5	PASS
Band1 2	5MHz	16QAM	23155	25RB#0	VL	NT	-47.11	-0.066027	±2.5	PASS
Band1 2	5MHz	16QAM	23155	25RB#0	VN	NT	-37.34	-0.052334	±2.5	PASS
Band1 2	5MHz	16QAM	23155	25RB#0	VH	NT	-49.34	-0.069152	±2.5	PASS
Band1 2	10MHz	QPSK	23060	50RB#0	VL	NT	39.24	0.055739	±2.5	PASS
Band1 2	10MHz	QPSK	23060	50RB#0	VN	NT	27.77	0.039446	±2.5	PASS
Band1 2	10MHz	QPSK	23060	50RB#0	VH	NT	45.19	0.064190	±2.5	PASS
Band1 2	10MHz	QPSK	23095	50RB#0	VL	NT	33.36	0.047152	±2.5	PASS
Band1 2	10MHz	QPSK	23095	50RB#0	VN	NT	16.78	0.023717	±2.5	PASS
Band1 2	10MHz	QPSK	23095	50RB#0	VH	NT	37.59	0.053131	±2.5	PASS
Band1	10MHz	QPSK	23130	50RB#0	VL	NT	25.82	0.036315	±2.5	PASS

2										
Band1 2	10MHz	QPSK	23130	50RB#0	VN	NT	11.83	0.016639	±2.5	PASS
Band1 2	10MHz	QPSK	23130	50RB#0	VH	NT	20.63	0.029015	±2.5	PASS
Band1 2	10MHz	16QAM	23060	50RB#0	VL	NT	37.64	0.053466	±2.5	PASS
Band1 2	10MHz	16QAM	23060	50RB#0	VN	NT	26.34	0.037415	±2.5	PASS
Band1 2	10MHz	16QAM	23060	50RB#0	VH	NT	7.84	0.011136	±2.5	PASS
Band1 2	10MHz	16QAM	23095	50RB#0	VL	NT	28.51	0.040297	±2.5	PASS
Band1 2	10MHz	16QAM	23095	50RB#0	VN	NT	21.01	0.029696	±2.5	PASS
Band1 2	10MHz	16QAM	23095	50RB#0	VH	NT	41.97	0.059322	±2.5	PASS
Band1 2	10MHz	16QAM	23130	50RB#0	VL	NT	15.18	0.021350	±2.5	PASS
Band1 2	10MHz	16QAM	23130	50RB#0	VN	NT	5.89	0.008284	±2.5	PASS
Band1 2	10MHz	16QAM	23130	50RB#0	VH	NT	26.69	0.037539	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configuration	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band1 2	1.4MHz	QPSK	23017	6RB#0	NV	-30	-4.82	-0.006889	±2.5	PASS
Band1 2	1.4MHz	QPSK	23017	6RB#0	NV	-20	-26.56	-0.037959	±2.5	PASS
Band1 2	1.4MHz	QPSK	23017	6RB#0	NV	0	-48.41	-0.069187	±2.5	PASS
Band1 2	1.4MHz	QPSK	23017	6RB#0	NV	10	-23.42	-0.033471	±2.5	PASS
Band1 2	1.4MHz	QPSK	23017	6RB#0	NV	20	-40.28	-0.057568	±2.5	PASS
Band1 2	1.4MHz	QPSK	23095	6RB#0	NV	-30	25.05	0.035406	±2.5	PASS
Band1 2	1.4MHz	QPSK	23095	6RB#0	NV	-20	45.96	0.064961	±2.5	PASS
Band1 2	1.4MHz	QPSK	23095	6RB#0	NV	0	16.75	0.023675	±2.5	PASS

Band1 2	1.4MHz	QPSK	23095	6RB#0	NV	10	30.54	0.043166	±2.5	PASS
Band1 2	1.4MHz	QPSK	23095	6RB#0	NV	20	43.97	0.062148	±2.5	PASS
Band1 2	1.4MHz	QPSK	23173	6RB#0	NV	-30	14.05	0.019642	±2.5	PASS
Band1 2	1.4MHz	QPSK	23173	6RB#0	NV	-20	5.49	0.007675	±2.5	PASS
Band1 2	1.4MHz	QPSK	23173	6RB#0	NV	0	-6.25	-0.008738	±2.5	PASS
Band1 2	1.4MHz	QPSK	23173	6RB#0	NV	10	-14.08	-0.019684	±2.5	PASS
Band1 2	1.4MHz	QPSK	23173	6RB#0	NV	20	-24.75	-0.034601	±2.5	PASS
Band1 2	1.4MHz	16QAM	23017	6RB#0	NV	-30	-19.04	-0.027212	±2.5	PASS
Band1 2	1.4MHz	16QAM	23017	6RB#0	NV	-20	-23.25	-0.033229	±2.5	PASS
Band1 2	1.4MHz	16QAM	23017	6RB#0	NV	0	-25.15	-0.035944	±2.5	PASS
Band1 2	1.4MHz	16QAM	23017	6RB#0	NV	10	-30.27	-0.043261	±2.5	PASS
Band1 2	1.4MHz	16QAM	23017	6RB#0	NV	20	-33.42	-0.047763	±2.5	PASS
Band1 2	1.4MHz	16QAM	23095	6RB#0	NV	-30	15.02	0.021230	±2.5	PASS
Band1 2	1.4MHz	16QAM	23095	6RB#0	NV	-20	30.71	0.043406	±2.5	PASS
Band1 2	1.4MHz	16QAM	23095	6RB#0	NV	0	43.82	0.061936	±2.5	PASS
Band1 2	1.4MHz	16QAM	23095	6RB#0	NV	10	9.77	0.013809	±2.5	PASS
Band1 2	1.4MHz	16QAM	23095	6RB#0	NV	20	23.75	0.033569	±2.5	PASS
Band1 2	1.4MHz	16QAM	23173	6RB#0	NV	-30	-31.19	-0.043604	±2.5	PASS
Band1 2	1.4MHz	16QAM	23173	6RB#0	NV	-20	-30.83	-0.043101	±2.5	PASS
Band1 2	1.4MHz	16QAM	23173	6RB#0	NV	0	-30.63	-0.042821	±2.5	PASS
Band1 2	1.4MHz	16QAM	23173	6RB#0	NV	10	-31.49	-0.044023	±2.5	PASS
Band1	1.4MHz	16QAM	23173	6RB#0	NV	20	-31.57	-0.044135	±2.5	PASS

2										
Band1 2	3MHz	QPSK	23025	15RB#0	NV	-30	-43.17	-0.061627	±2.5	PASS
Band1 2	3MHz	QPSK	23025	15RB#0	NV	-20	-21.97	-0.031363	±2.5	PASS
Band1 2	3MHz	QPSK	23025	15RB#0	NV	0	-42.53	-0.060714	±2.5	PASS
Band1 2	3MHz	QPSK	23025	15RB#0	NV	10	-10.09	-0.014404	±2.5	PASS
Band1 2	3MHz	QPSK	23025	15RB#0	NV	20	-29.75	-0.042470	±2.5	PASS
Band1 2	3MHz	QPSK	23095	15RB#0	NV	-30	3.10	0.004382	±2.5	PASS
Band1 2	3MHz	QPSK	23095	15RB#0	NV	-20	18.55	0.026219	±2.5	PASS
Band1 2	3MHz	QPSK	23095	15RB#0	NV	0	33.30	0.047067	±2.5	PASS
Band1 2	3MHz	QPSK	23095	15RB#0	NV	10	46.85	0.066219	±2.5	PASS
Band1 2	3MHz	QPSK	23095	15RB#0	NV	20	7.55	0.010671	±2.5	PASS
Band1 2	3MHz	QPSK	23165	15RB#0	NV	-30	-17.28	-0.024185	±2.5	PASS
Band1 2	3MHz	QPSK	23165	15RB#0	NV	-20	-32.82	-0.045934	±2.5	PASS
Band1 2	3MHz	QPSK	23165	15RB#0	NV	0	-46.11	-0.064535	±2.5	PASS
Band1 2	3MHz	QPSK	23165	15RB#0	NV	10	-8.64	-0.012092	±2.5	PASS
Band1 2	3MHz	QPSK	23165	15RB#0	NV	20	-17.48	-0.024465	±2.5	PASS
Band1 2	3MHz	16QAM	23025	15RB#0	NV	-30	-27.78	-0.039657	±2.5	PASS
Band1 2	3MHz	16QAM	23025	15RB#0	NV	-20	-33.83	-0.048294	±2.5	PASS
Band1 2	3MHz	16QAM	23025	15RB#0	NV	0	-37.85	-0.054033	±2.5	PASS
Band1 2	3MHz	16QAM	23025	15RB#0	NV	10	-42.23	-0.060286	±2.5	PASS
Band1 2	3MHz	16QAM	23025	15RB#0	NV	20	-44.76	-0.063897	±2.5	PASS
Band1 2	3MHz	16QAM	23095	15RB#0	NV	-30	28.61	0.040438	±2.5	PASS

Band1 2	3MHz	16QAM	23095	15RB#0	NV	-20	43.57	0.061583	±2.5	PASS
Band1 2	3MHz	16QAM	23095	15RB#0	NV	0	3.05	0.004311	±2.5	PASS
Band1 2	3MHz	16QAM	23095	15RB#0	NV	10	14.58	0.020608	±2.5	PASS
Band1 2	3MHz	16QAM	23095	15RB#0	NV	20	26.41	0.037329	±2.5	PASS
Band1 2	3MHz	16QAM	23165	15RB#0	NV	-30	-30.04	-0.042043	±2.5	PASS
Band1 2	3MHz	16QAM	23165	15RB#0	NV	-20	-30.24	-0.042323	±2.5	PASS
Band1 2	3MHz	16QAM	23165	15RB#0	NV	0	-29.88	-0.041819	±2.5	PASS
Band1 2	3MHz	16QAM	23165	15RB#0	NV	10	-31.39	-0.043933	±2.5	PASS
Band1 2	3MHz	16QAM	23165	15RB#0	NV	20	-33.45	-0.046816	±2.5	PASS
Band1 2	5MHz	QPSK	23035	25RB#0	NV	-30	-46.79	-0.066700	±2.5	PASS
Band1 2	5MHz	QPSK	23035	25RB#0	NV	-20	-18.75	-0.026728	±2.5	PASS
Band1 2	5MHz	QPSK	23035	25RB#0	NV	0	-31.46	-0.044847	±2.5	PASS
Band1 2	5MHz	QPSK	23035	25RB#0	NV	10	-45.39	-0.064704	±2.5	PASS
Band1 2	5MHz	QPSK	23035	25RB#0	NV	20	-12.26	-0.017477	±2.5	PASS
Band1 2	5MHz	QPSK	23095	25RB#0	NV	-30	44.42	0.062784	±2.5	PASS
Band1 2	5MHz	QPSK	23095	25RB#0	NV	-20	8.27	0.011689	±2.5	PASS
Band1 2	5MHz	QPSK	23095	25RB#0	NV	0	23.36	0.033018	±2.5	PASS
Band1 2	5MHz	QPSK	23095	25RB#0	NV	10	33.86	0.047859	±2.5	PASS
Band1 2	5MHz	QPSK	23095	25RB#0	NV	20	42.66	0.060297	±2.5	PASS
Band1 2	5MHz	QPSK	23155	25RB#0	NV	-30	-23.90	-0.033497	±2.5	PASS
Band1 2	5MHz	QPSK	23155	25RB#0	NV	-20	-40.44	-0.056678	±2.5	PASS
Band1	5MHz	QPSK	23155	25RB#0	NV	0	-5.38	-0.007540	±2.5	PASS

2										
Band1 2	5MHz	QPSK	23155	25RB#0	NV	10	-17.51	-0.024541	±2.5	PASS
Band1 2	5MHz	QPSK	23155	25RB#0	NV	20	-28.20	-0.039523	±2.5	PASS
Band1 2	5MHz	16QAM	23035	25RB#0	NV	-30	-42.54	-0.060641	±2.5	PASS
Band1 2	5MHz	16QAM	23035	25RB#0	NV	-20	-42.53	-0.060627	±2.5	PASS
Band1 2	5MHz	16QAM	23035	25RB#0	NV	0	-39.93	-0.056921	±2.5	PASS
Band1 2	5MHz	16QAM	23035	25RB#0	NV	10	-39.37	-0.056123	±2.5	PASS
Band1 2	5MHz	16QAM	23035	25RB#0	NV	20	-41.31	-0.058888	±2.5	PASS
Band1 2	5MHz	16QAM	23095	25RB#0	NV	-30	37.62	0.053173	±2.5	PASS
Band1 2	5MHz	16QAM	23095	25RB#0	NV	-20	9.36	0.013230	±2.5	PASS
Band1 2	5MHz	16QAM	23095	25RB#0	NV	0	23.00	0.032509	±2.5	PASS
Band1 2	5MHz	16QAM	23095	25RB#0	NV	10	31.71	0.044820	±2.5	PASS
Band1 2	5MHz	16QAM	23095	25RB#0	NV	20	44.16	0.062417	±2.5	PASS
Band1 2	5MHz	16QAM	23155	25RB#0	NV	-30	-48.34	-0.067751	±2.5	PASS
Band1 2	5MHz	16QAM	23155	25RB#0	NV	-20	-6.08	-0.008521	±2.5	PASS
Band1 2	5MHz	16QAM	23155	25RB#0	NV	0	-6.11	-0.008563	±2.5	PASS
Band1 2	5MHz	16QAM	23155	25RB#0	NV	10	-6.81	-0.009544	±2.5	PASS
Band1 2	5MHz	16QAM	23155	25RB#0	NV	20	-11.23	-0.015739	±2.5	PASS
Band1 2	10MHz	QPSK	23060	50RB#0	NV	-30	-6.62	-0.009403	±2.5	PASS
Band1 2	10MHz	QPSK	23060	50RB#0	NV	-20	2.70	0.003835	±2.5	PASS
Band1 2	10MHz	QPSK	23060	50RB#0	NV	0	7.24	0.010284	±2.5	PASS
Band1 2	10MHz	QPSK	23060	50RB#0	NV	10	13.69	0.019446	±2.5	PASS

Band1 2	10MHz	QPSK	23060	50RB#0	NV	20	19.71	0.027997	±2.5	PASS
Band1 2	10MHz	QPSK	23095	50RB#0	NV	-30	38.50	0.054417	±2.5	PASS
Band1 2	10MHz	QPSK	23095	50RB#0	NV	-20	40.90	0.057809	±2.5	PASS
Band1 2	10MHz	QPSK	23095	50RB#0	NV	0	45.28	0.064000	±2.5	PASS
Band1 2	10MHz	QPSK	23095	50RB#0	NV	10	4.55	0.006431	±2.5	PASS
Band1 2	10MHz	QPSK	23095	50RB#0	NV	20	12.29	0.017371	±2.5	PASS
Band1 2	10MHz	QPSK	23130	50RB#0	NV	-30	18.07	0.025415	±2.5	PASS
Band1 2	10MHz	QPSK	23130	50RB#0	NV	-20	15.12	0.021266	±2.5	PASS
Band1 2	10MHz	QPSK	23130	50RB#0	NV	0	13.99	0.019677	±2.5	PASS
Band1 2	10MHz	QPSK	23130	50RB#0	NV	10	10.07	0.014163	±2.5	PASS
Band1 2	10MHz	QPSK	23130	50RB#0	NV	20	8.17	0.011491	±2.5	PASS
Band1 2	10MHz	16QAM	23060	50RB#0	NV	-30	21.87	0.031065	±2.5	PASS
Band1 2	10MHz	16QAM	23060	50RB#0	NV	-20	33.95	0.048224	±2.5	PASS
Band1 2	10MHz	16QAM	23060	50RB#0	NV	0	45.88	0.065170	±2.5	PASS
Band1 2	10MHz	16QAM	23060	50RB#0	NV	10	8.53	0.012116	±2.5	PASS
Band1 2	10MHz	16QAM	23060	50RB#0	NV	20	21.07	0.029929	±2.5	PASS
Band1 2	10MHz	16QAM	23095	50RB#0	NV	-30	6.72	0.009498	±2.5	PASS
Band1 2	10MHz	16QAM	23095	50RB#0	NV	-20	12.13	0.017145	±2.5	PASS
Band1 2	10MHz	16QAM	23095	50RB#0	NV	0	26.74	0.037795	±2.5	PASS
Band1 2	10MHz	16QAM	23095	50RB#0	NV	10	38.09	0.053837	±2.5	PASS
Band1 2	10MHz	16QAM	23095	50RB#0	NV	20	-2.13	-0.003011	±2.5	PASS
Band1	10MHz	16QAM	23130	50RB#0	NV	-30	39.80	0.055977	±2.5	PASS

2										
Band1 2	10MHz	16QAM	23130	50RB#0	NV	-20	49.07	0.069015	±2.5	PASS
Band1 2	10MHz	16QAM	23130	50RB#0	NV	0	7.32	0.010295	±2.5	PASS
Band1 2	10MHz	16QAM	23130	50RB#0	NV	10	18.50	0.026020	±2.5	PASS
Band1 2	10MHz	16QAM	23130	50RB#0	NV	20	24.05	0.033826	±2.5	PASS