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Vice RF module appendix for LTE Band 12

Applicant: HONGKONG UCLOUDLINK NETWORK TECHNOLOGY LIMITED

Address: Suite 603, 6/F, Laws Commercial Plaza, 788 Cheung Sha Wan Road, Kowloon, Hong Kong

Product Name: 4G Wireless Data Terminal

Model: GLMU20A02

FCC ID: 2AC88-GLMU20A02

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1 Summary of Test Results Data and Graph

1.1. Appendix A: Conducted Power Output Data

Test Result

LTE Band 12				Actual output Power (dBm)		
Band-width	Modulation	RB allocation	RB offset	Low	Middle	High
1.4	QPSK	1	Low	23.11	22.93	23.02
			Middle	23.02	22.44	22.82
			High	23.06	22.45	22.91
		3	Low	21.70	22.38	21.36
			Middle	21.68	21.75	21.29
			High	21.66	21.91	21.26
		6	/	21.63	22.01	20.78
	16QAM	1	Low	22.84	22.58	22.63
			Middle	22.81	22.06	22.41
			High	22.74	22.07	22.54
		3	Low	21.05	22.10	20.83
			Middle	21.03	20.99	20.63
			High	20.97	21.45	20.75
		6	/	20.74	21.59	20.45
3	QPSK	1	Low	23.09	23.42	23.00
			Middle	23.00	23.39	22.81
			High	23.04	23.34	22.89
		8	Low	21.68	21.92	21.35
			Middle	21.66	21.98	21.28
			High	21.63	21.84	21.24
		15	/	21.60	21.56	20.77
	16QAM	1	Low	22.81	23.07	22.62
			Middle	22.78	23.00	22.40
			High	22.72	22.99	22.53
		8	Low	21.03	21.26	20.81
			Middle	21.00	21.20	20.61
			High	20.94	21.19	20.73
		15	/	20.72	20.99	20.44

5	QPSK	1	Low	23.14	23.39	23.03
			Middle	23.04	23.36	22.84
			High	23.09	23.31	22.92
		12	Low	21.72	21.90	21.37
			Middle	21.70	21.95	21.30
			High	21.68	21.82	21.27
		25	/	21.65	21.54	20.79
	16QAM	1	Low	22.86	23.04	22.64
			Middle	22.83	22.97	22.42
			High	22.76	22.96	22.55
		12	Low	21.07	21.23	20.84
			Middle	21.05	21.17	20.64
			High	20.98	21.16	20.76
		25	/	20.76	20.96	20.46
10	QPSK	1	Low	23.21	**23.47**	23.11
			Middle	23.12	23.44	22.92
			High	23.16	23.38	23.00
		25	Low	21.79	21.97	21.45
			Middle	21.77	22.02	21.38
			High	21.75	21.89	21.34
		50	/	21.71	21.61	20.86
	16QAM	1	Low	22.62	22.84	22.48
			Middle	22.59	22.78	22.26
			High	22.52	22.77	22.39
		25	Low	20.85	21.05	20.69
			Middle	20.83	20.99	20.49
			High	20.76	20.98	20.61
		50	/	20.54	20.78	20.32

1.2. 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	1RB#0	4.78	13	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	5.42	13	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	4.84	13	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	5.42	13	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	4.68	13	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	5.35	13	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	5.87	13	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	6.38	13	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	5.99	13	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	6.41	13	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	5.48	13	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	6.22	13	PASS
Band12	3MHz	QPSK	23025	1RB#0	4.78	13	PASS
Band12	3MHz	QPSK	23025	15RB#0	5.58	13	PASS
Band12	3MHz	QPSK	23095	1RB#0	4.84	13	PASS
Band12	3MHz	QPSK	23095	15RB#0	5.61	13	PASS
Band12	3MHz	QPSK	23165	1RB#0	4.78	13	PASS
Band12	3MHz	QPSK	23165	15RB#0	5.42	13	PASS
Band12	3MHz	16QAM	23025	1RB#0	5.71	13	PASS
Band12	3MHz	16QAM	23025	15RB#0	6.47	13	PASS
Band12	3MHz	16QAM	23095	1RB#0	5.93	13	PASS
Band12	3MHz	16QAM	23095	15RB#0	6.44	13	PASS
Band12	3MHz	16QAM	23165	1RB#0	5.80	13	PASS
Band12	3MHz	16QAM	23165	15RB#0	6.41	13	PASS
Band12	5MHz	QPSK	23035	1RB#0	4.78	13	PASS
Band12	5MHz	QPSK	23035	25RB#0	5.45	13	PASS
Band12	5MHz	QPSK	23095	1RB#0	4.84	13	PASS
Band12	5MHz	QPSK	23095	25RB#0	5.48	13	PASS
Band12	5MHz	QPSK	23155	1RB#0	4.84	13	PASS
Band12	5MHz	QPSK	23155	25RB#0	5.42	13	PASS
Band12	5MHz	16QAM	23035	1RB#0	5.71	13	PASS
Band12	5MHz	16QAM	23035	25RB#0	6.35	13	PASS
Band12	5MHz	16QAM	23095	1RB#0	5.77	13	PASS
Band12	5MHz	16QAM	23095	25RB#0	6.38	13	PASS

Band12	5MHz	16QAM	23155	1RB#0	5.71	13	PASS
Band12	5MHz	16QAM	23155	25RB#0	6.28	13	PASS
Band12	10MHz	QPSK	23060	1RB#0	4.81	13	PASS
Band12	10MHz	QPSK	23060	50RB#0	5.35	13	PASS
Band12	10MHz	QPSK	23095	1RB#0	4.81	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.32	13	PASS
Band12	10MHz	QPSK	23130	1RB#0	4.78	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.32	13	PASS
Band12	10MHz	16QAM	23060	1RB#0	5.87	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	6.35	13	PASS
Band12	10MHz	16QAM	23095	1RB#0	5.93	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	6.38	13	PASS
Band12	10MHz	16QAM	23130	1RB#0	5.64	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	6.44	13	PASS

Test Graphs

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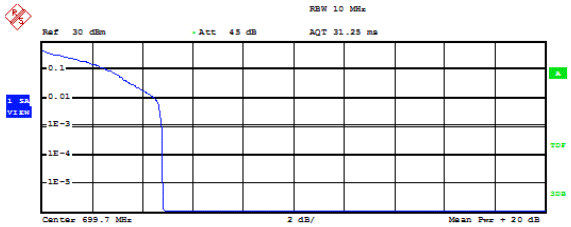

Complementary Cumulative Distribution Function (1000000 samples)

	Trace 1
Mean	23.91 dBm
Peak	28.79 dBm
Crest	4.87 dB
10 %	2.63 dB
1 %	4.46 dB
.1 %	4.78 dB
.01 %	4.81 dB

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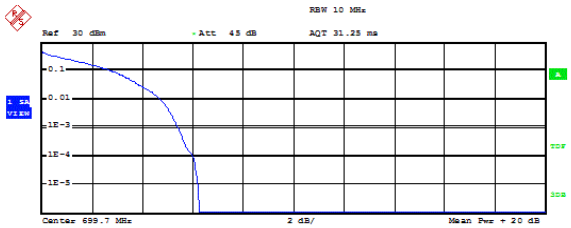
Band12-1.4MHz-QPSK-23017-6RB#0



Complementary Cumulative Distribution Function (1000000 samples)

	Trace 1
Mean	23.12 dBm
Peak	29.35 dBm
Crest	6.23 dB
10 %	2.79 dB
1 %	4.71 dB
.1 %	5.42 dB
.01 %	6.03 dB

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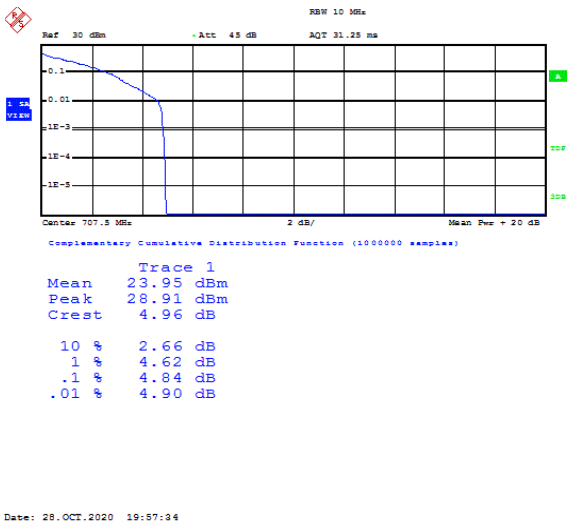

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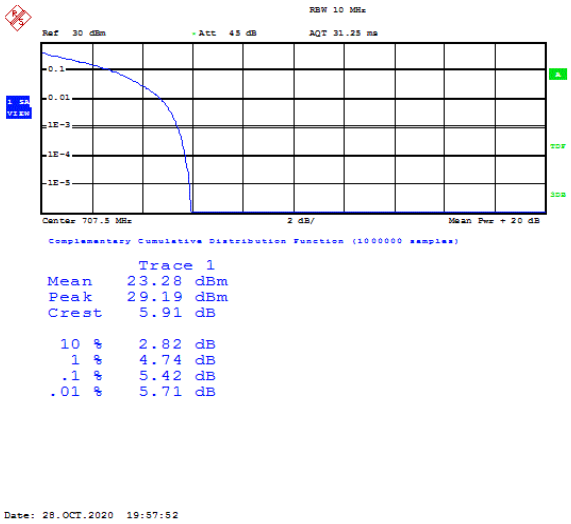

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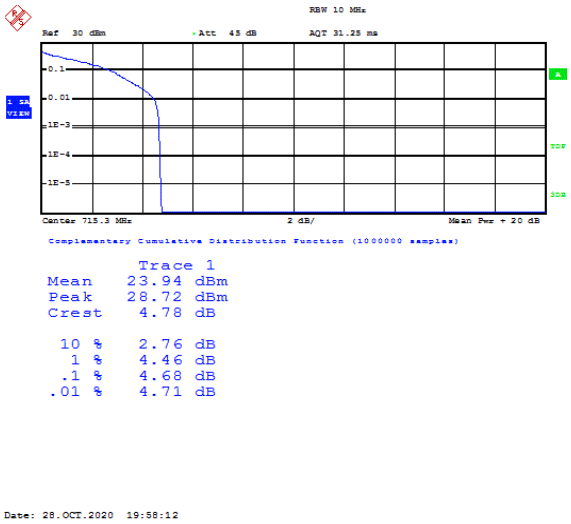

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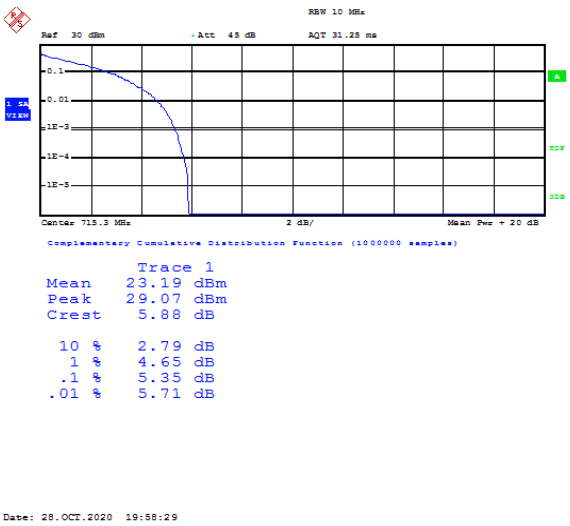

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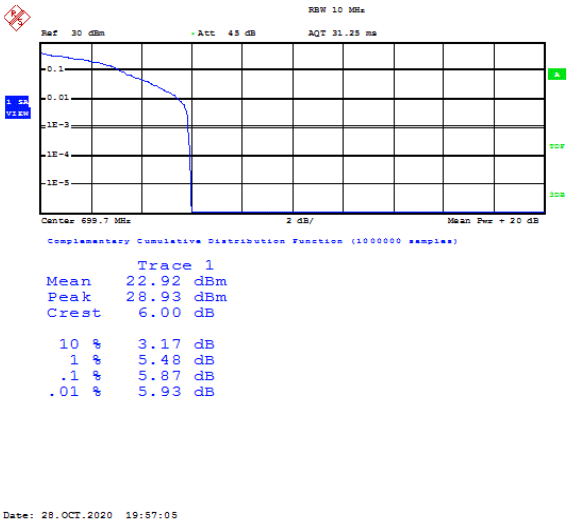

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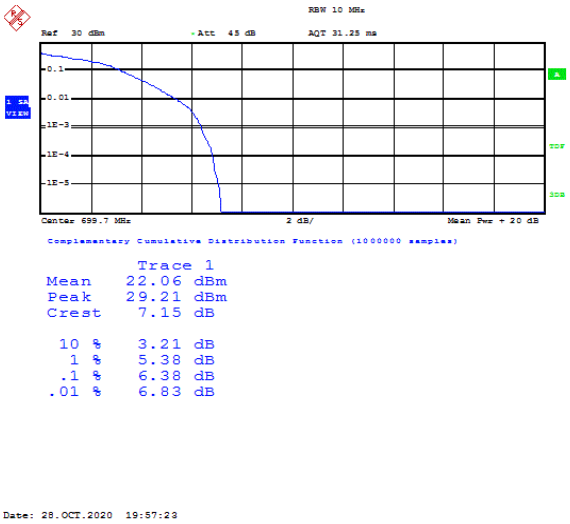

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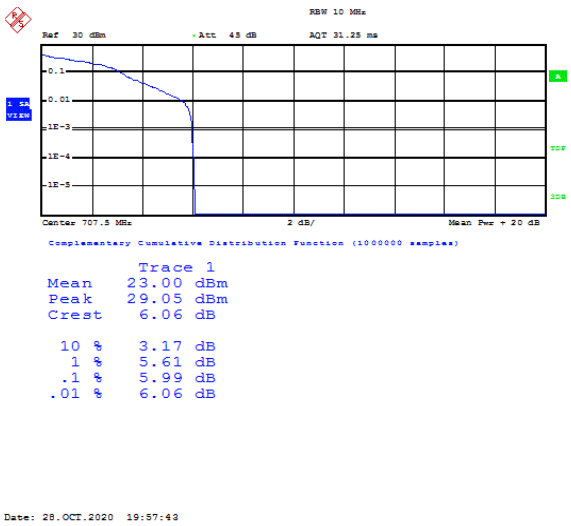

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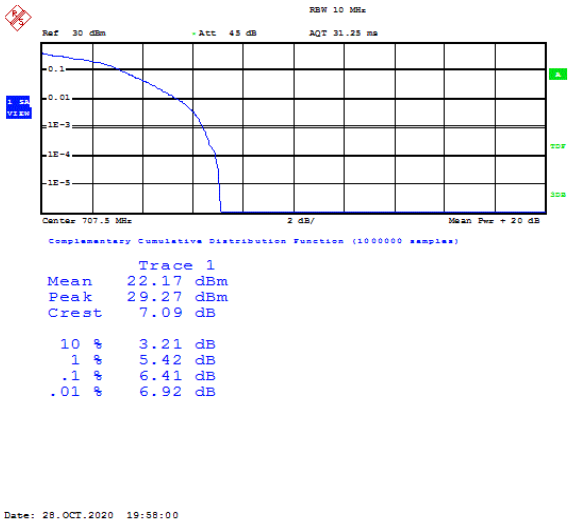

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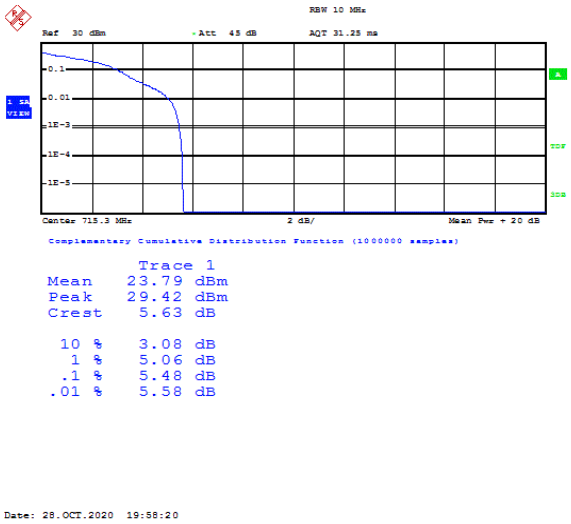

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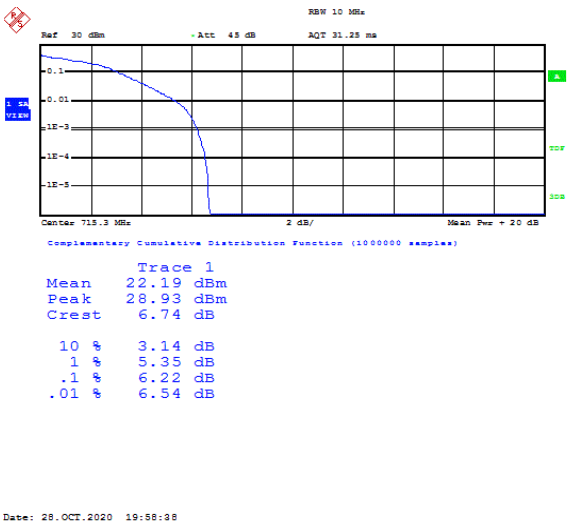

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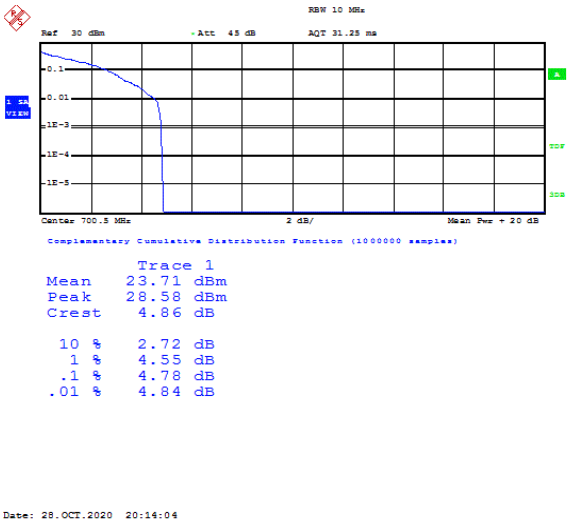

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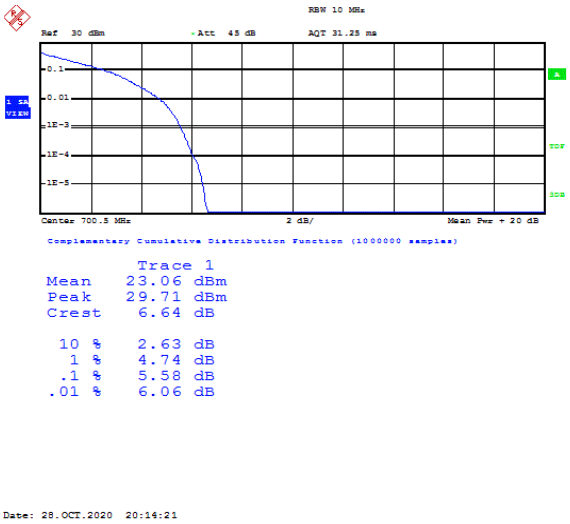

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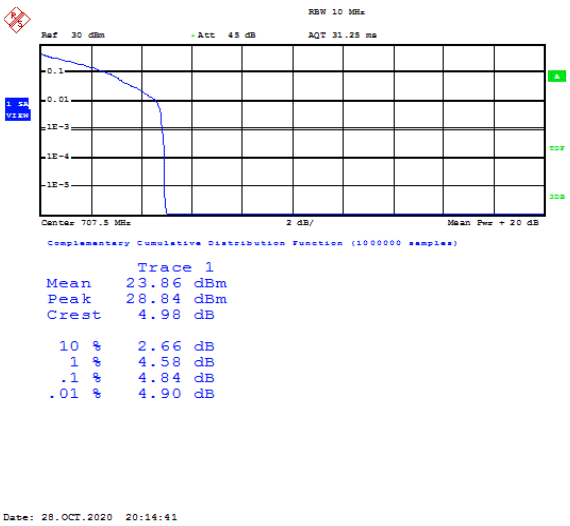

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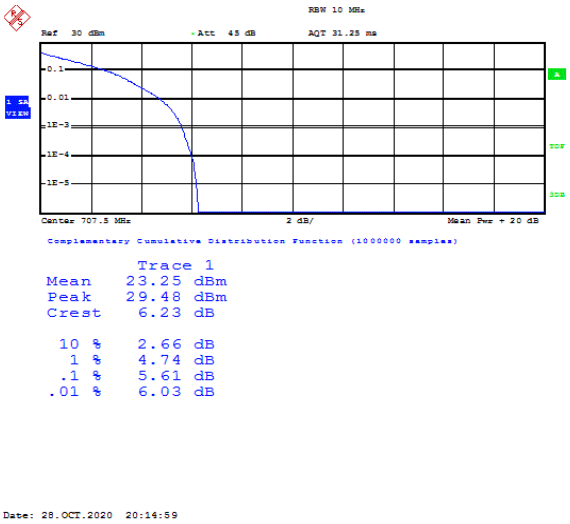

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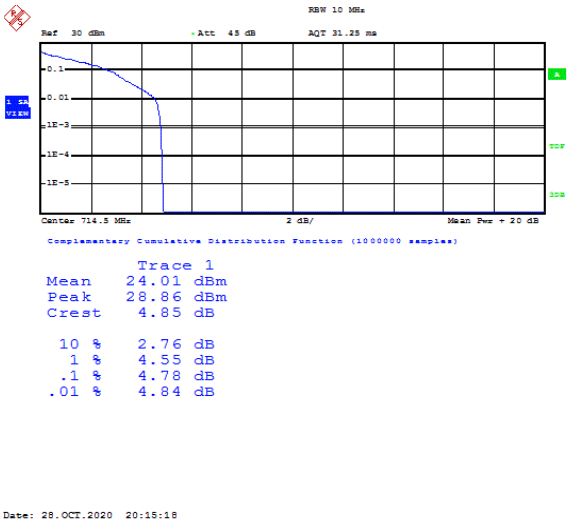

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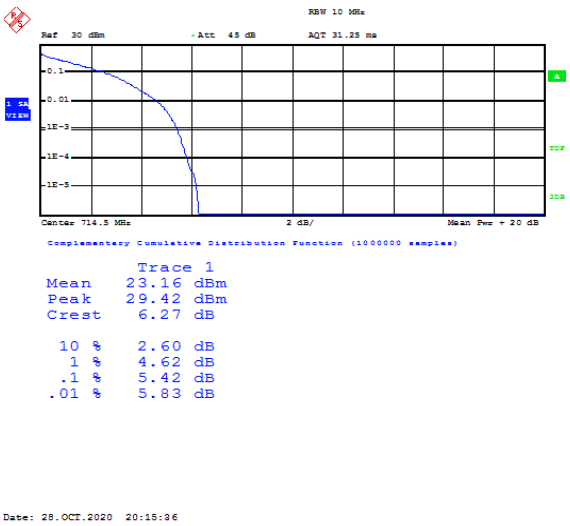

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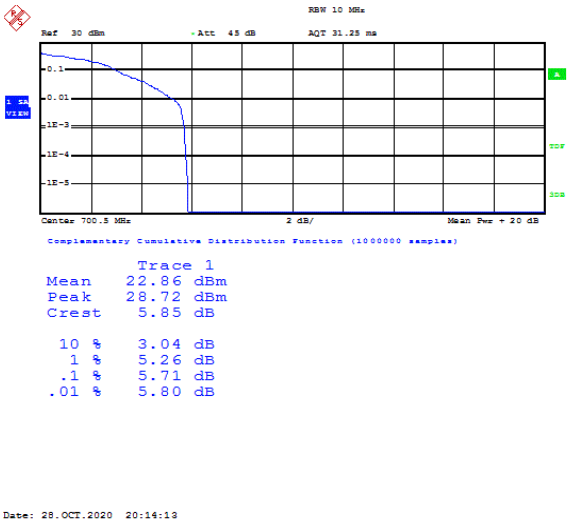

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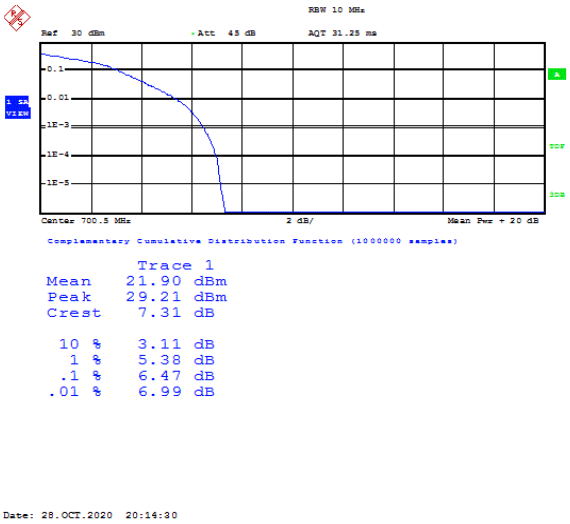

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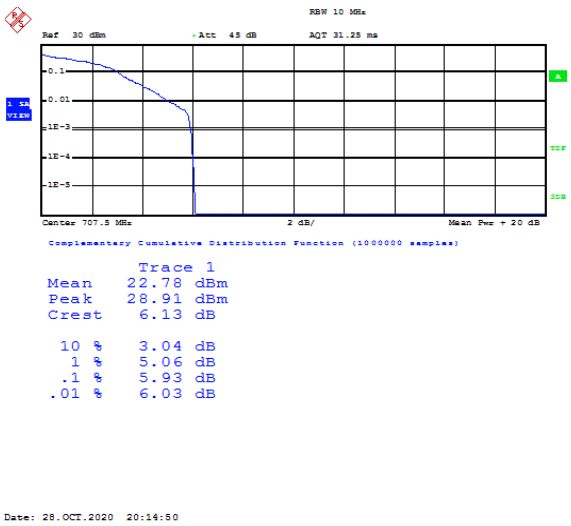

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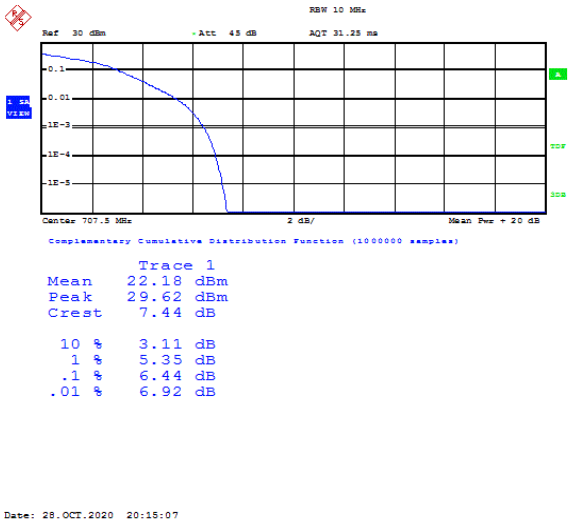

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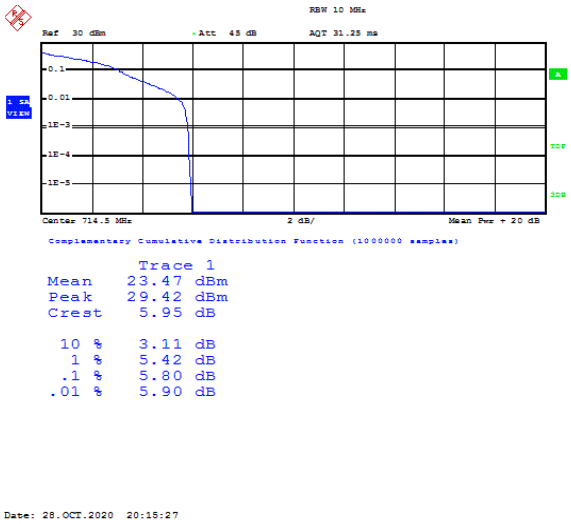

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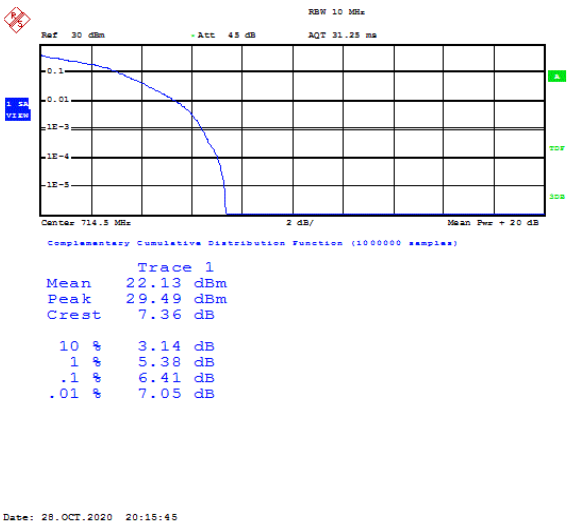

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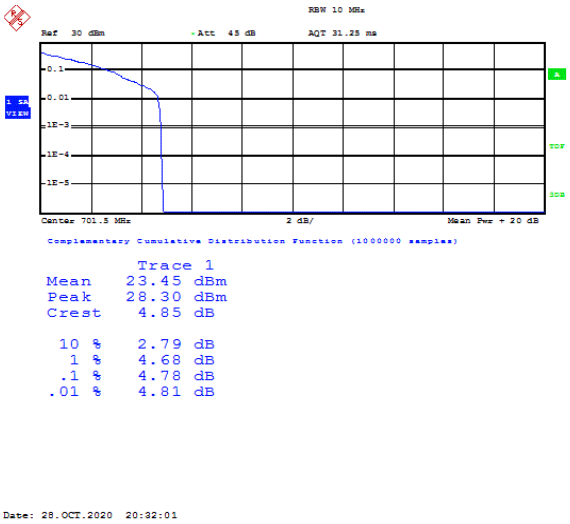

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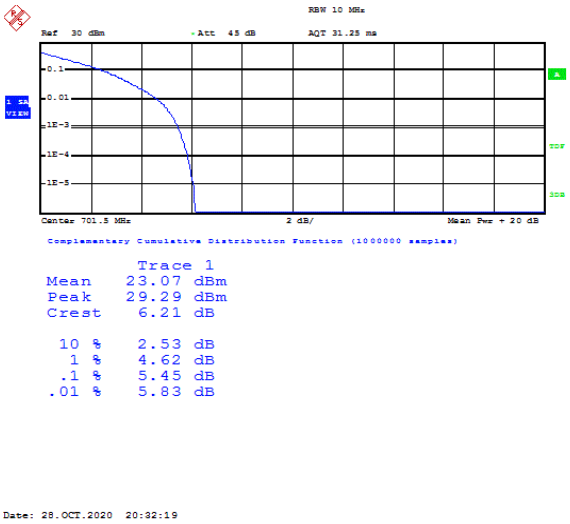

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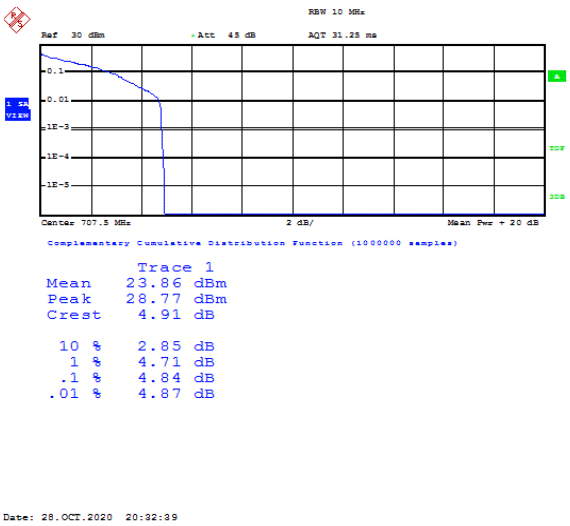

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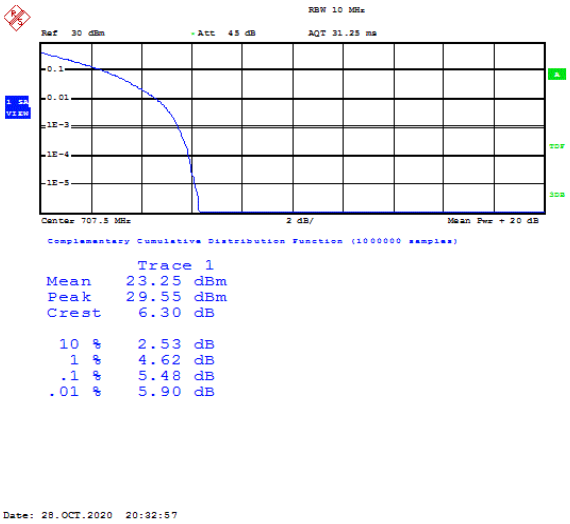

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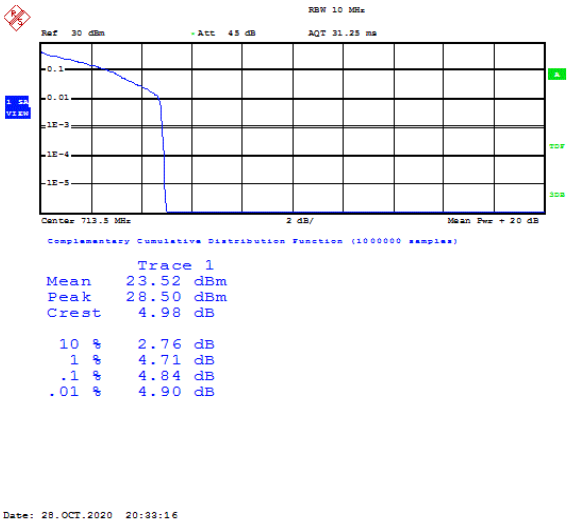

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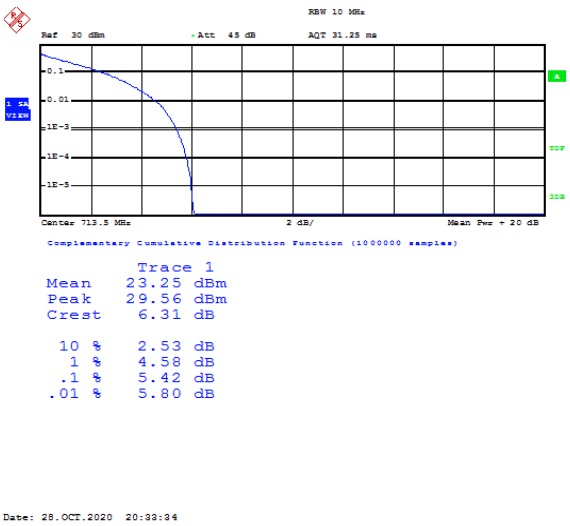

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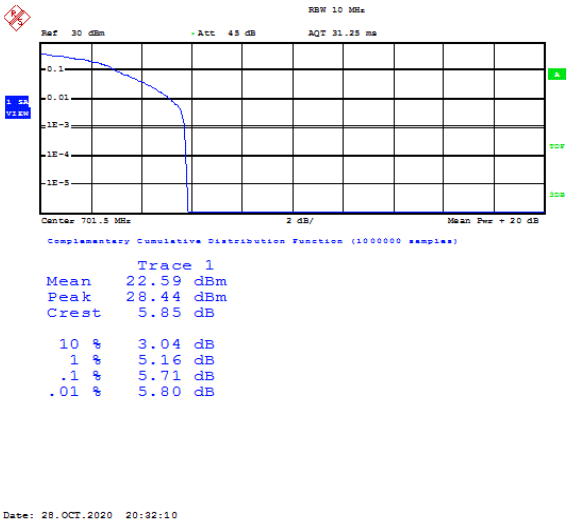

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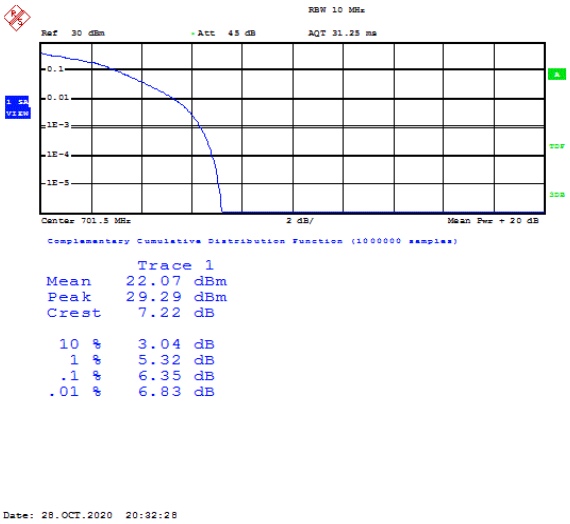

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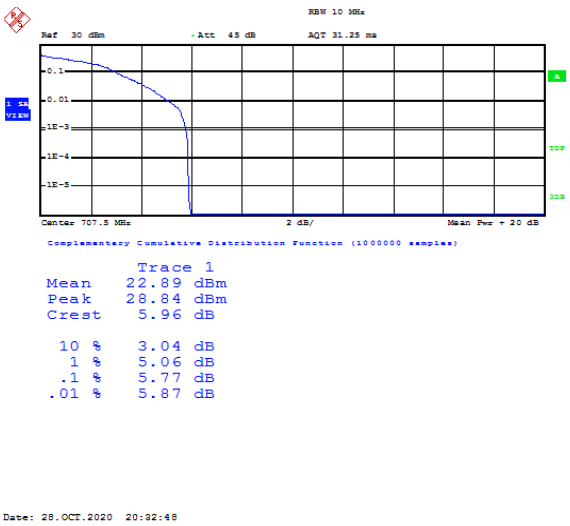

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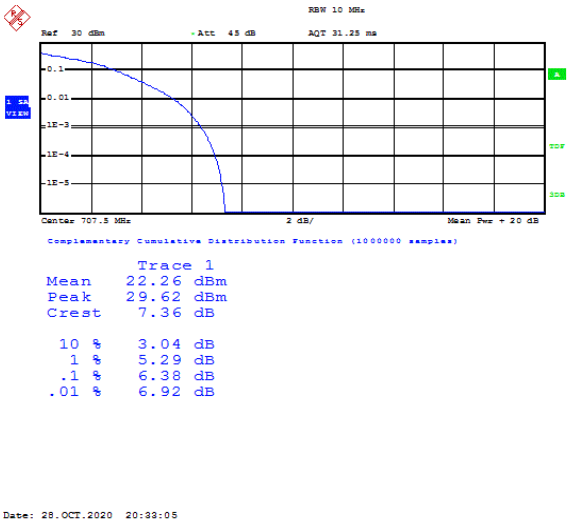

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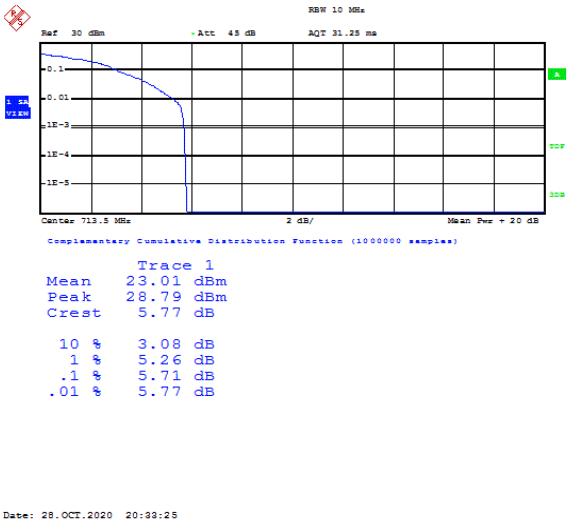

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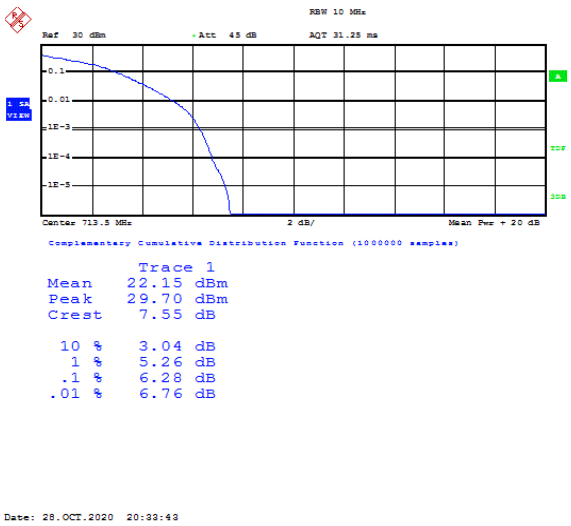

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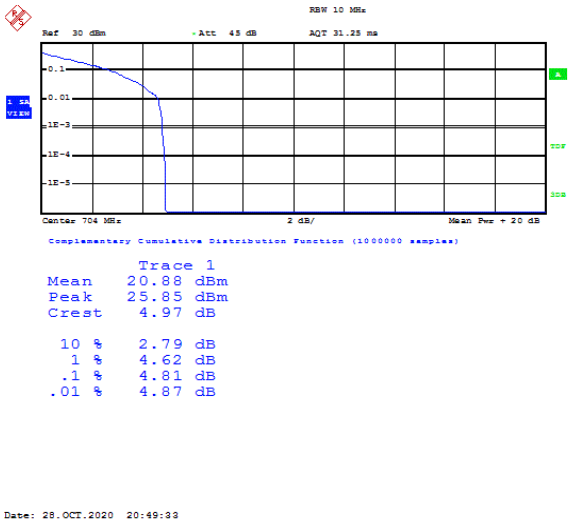

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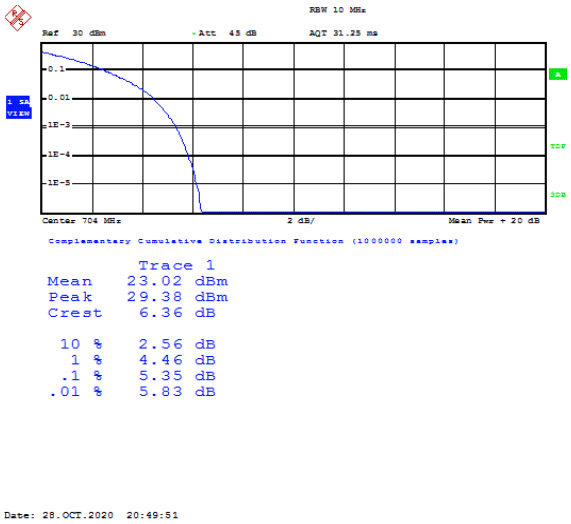

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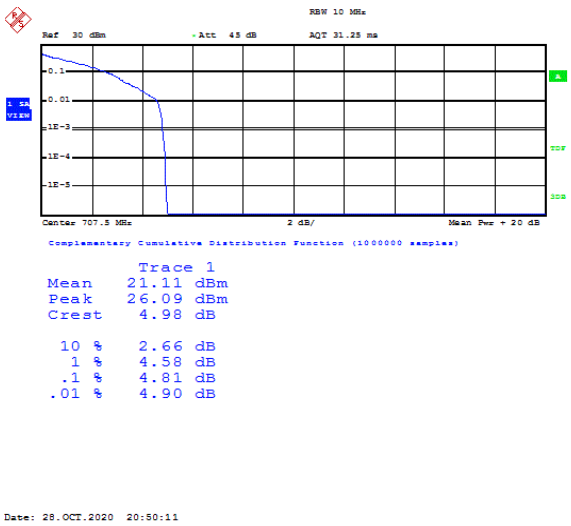

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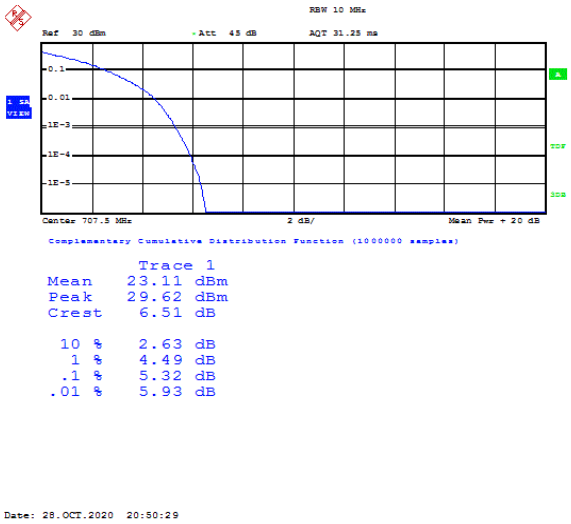

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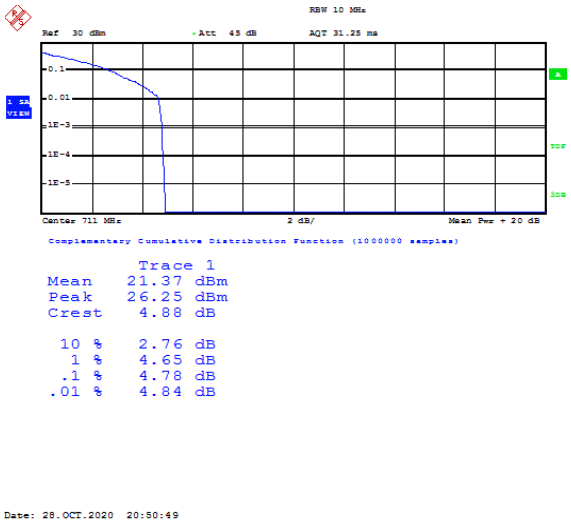

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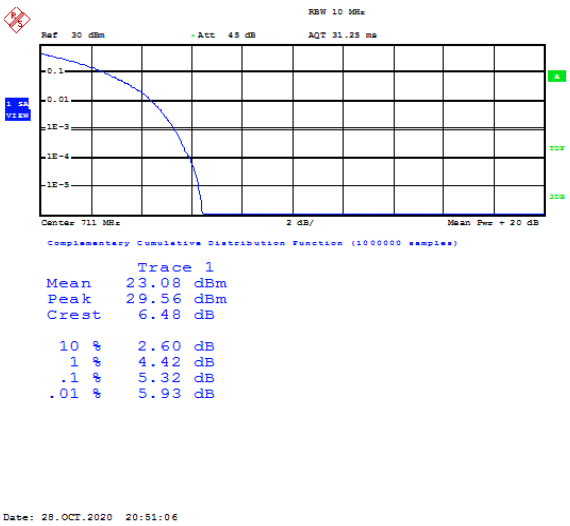

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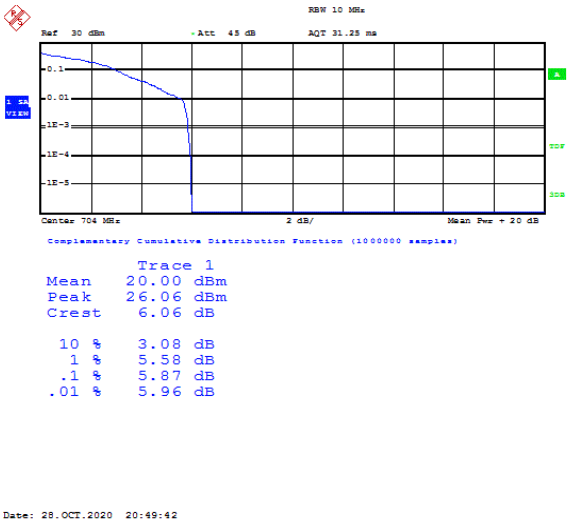

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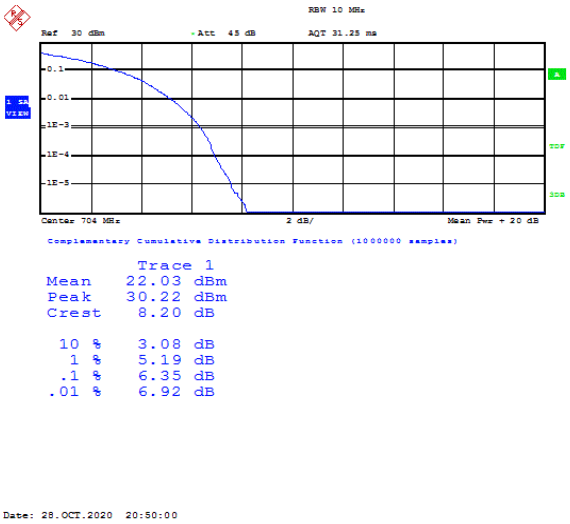

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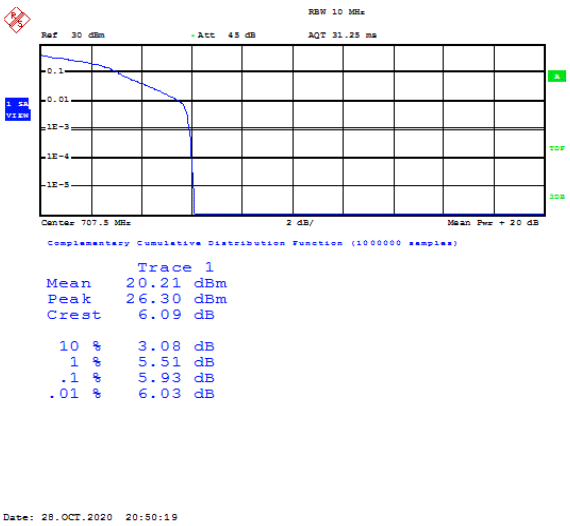

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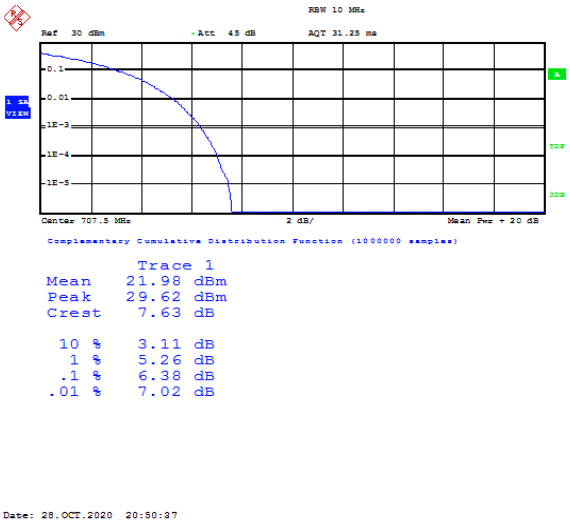

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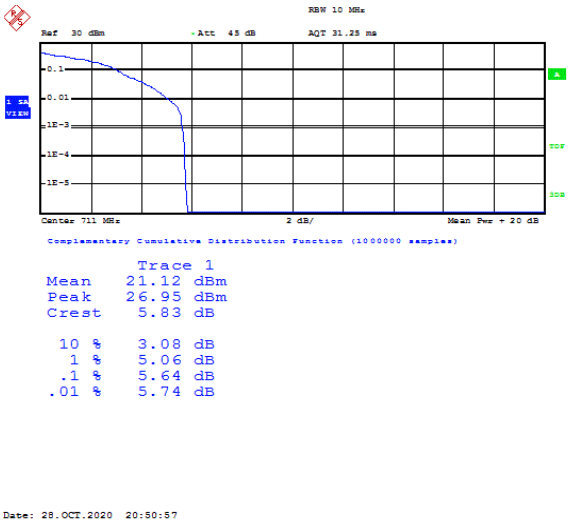
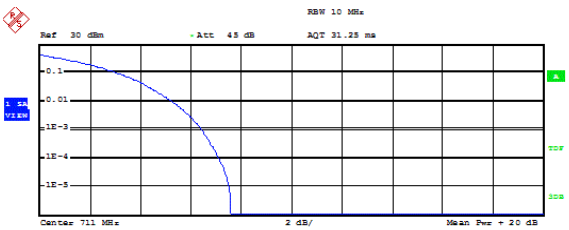


Band12-10MHz-16QAM-23130-50RB#0



Complementary Cumulative Distribution Function (1000000 samples)

	Trace 1
Mean	21.97 dBm
Peak	29.56 dBm
Crest	7.59 dB
10 %	3.08 dB
1 %	5.26 dB
.1 %	6.44 dB
.01 %	7.12 dB

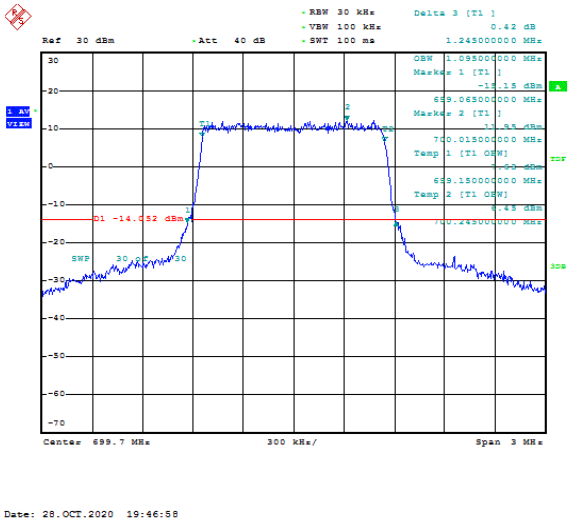
Date: 28.OCT.2020 20:51:15

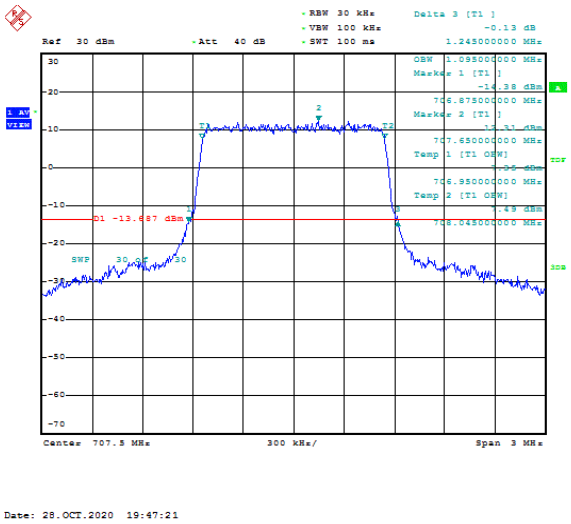
1.3. Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.095	1.245	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.095	1.245	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.095	1.220	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.09	1.230	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.095	1.205	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.09	1.230	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.683	2.971	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.7	2.880	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.7	2.860	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.7	2.870	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.7	2.870	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.7	2.880	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.503	4.904	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.5	4.800	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.5	4.800	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.51	4.780	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.52	4.780	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.52	4.780	PASS
Band12	10MHz	QPSK	23060	50RB#0	9.006	9.744	PASS
Band12	10MHz	QPSK	23095	50RB#0	9	9.667	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.967	9.667	PASS
Band12	10MHz	16QAM	23060	50RB#0	9	9.667	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.967	9.667	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.967	9.633	PASS

Test Graphs

Band12-1.4MHz-QPSK-23017-6RB#0-1.095


Band12-1.4MHz-QPSK-23095-6RB#0-1.095


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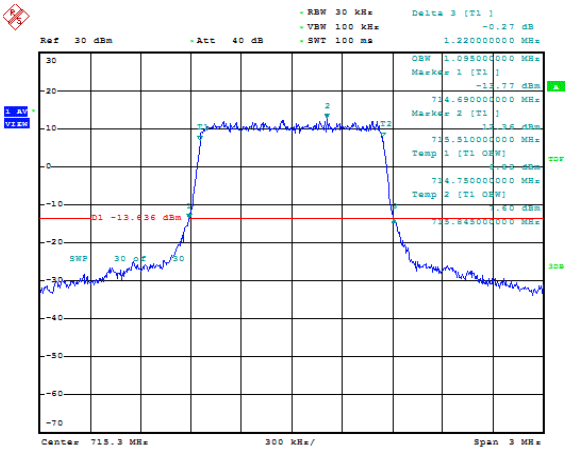

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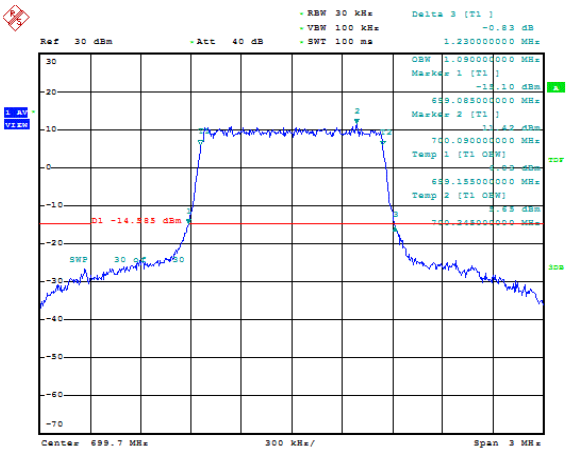

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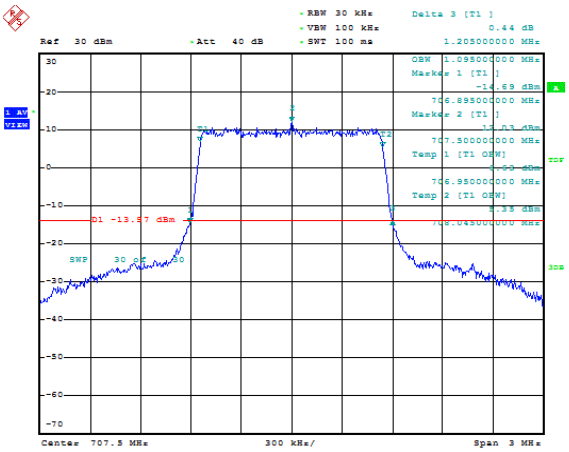

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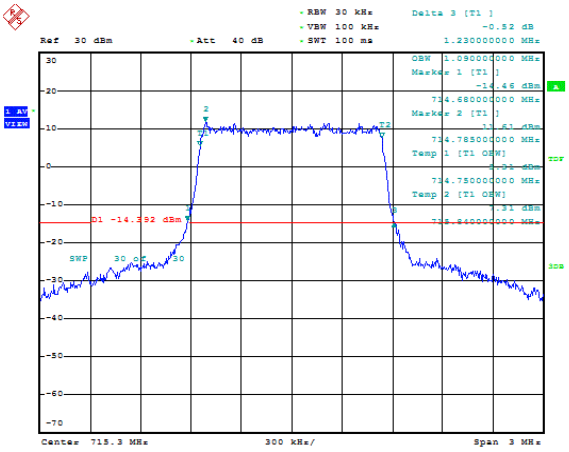

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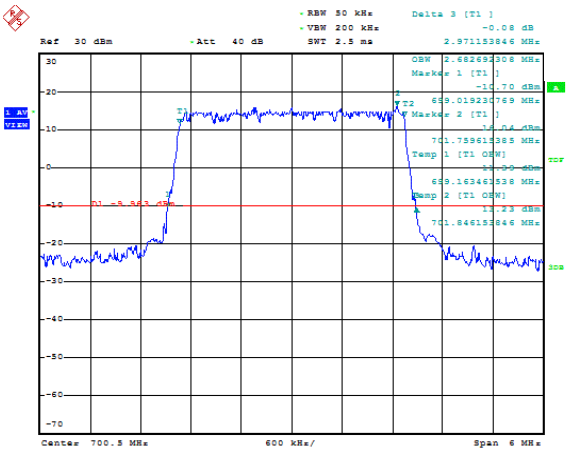

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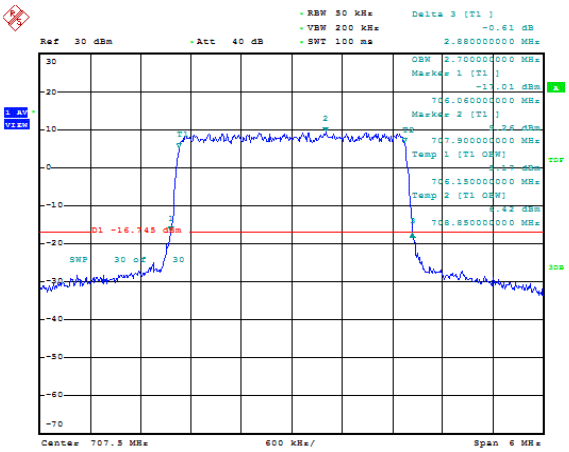

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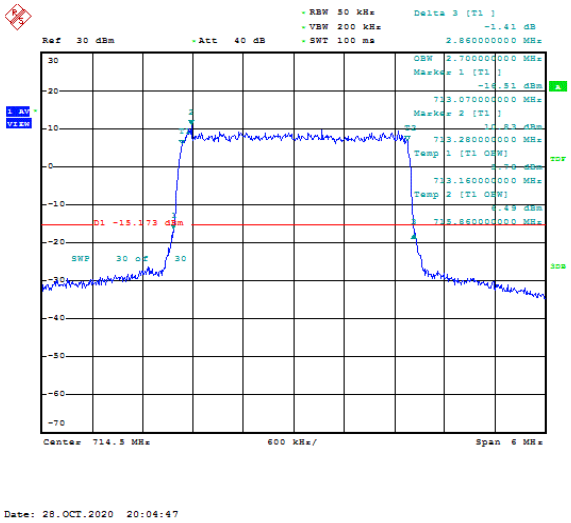

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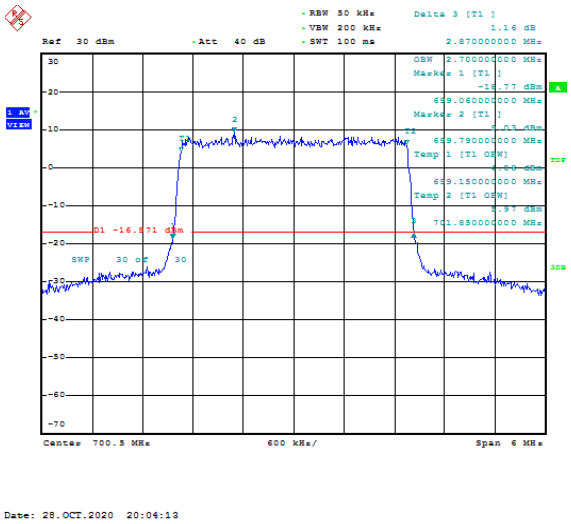

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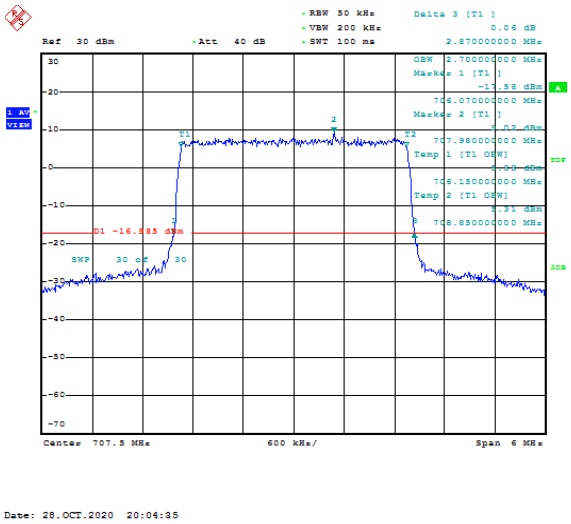

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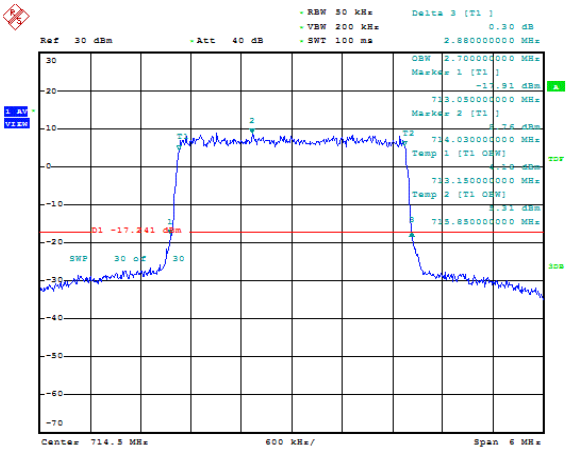

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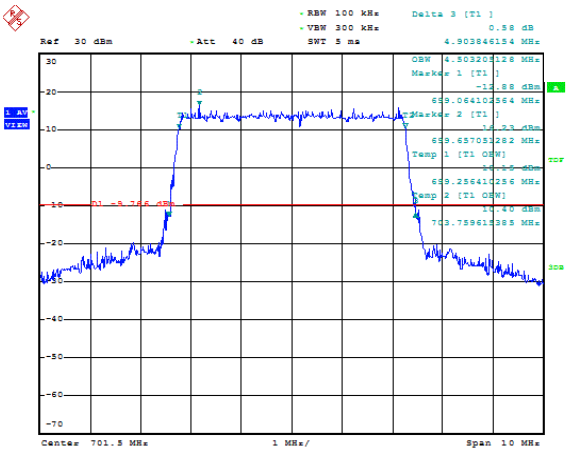

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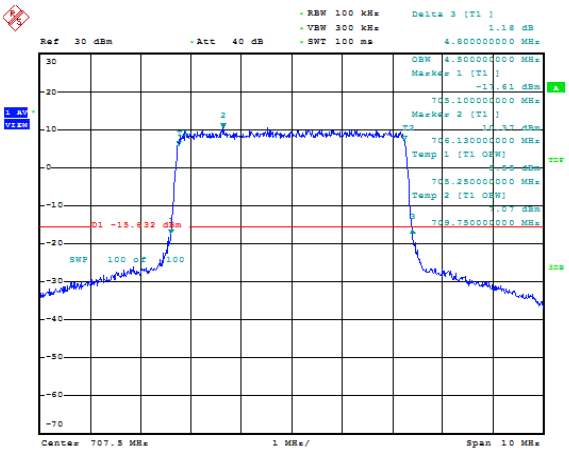

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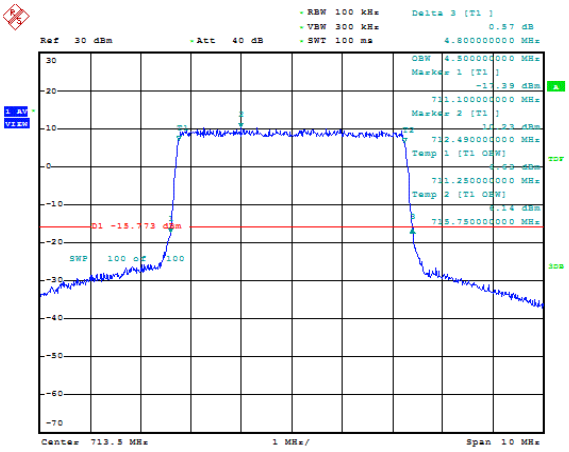
Band12-5MHz-QPSK-23155-25RB#0-4.5



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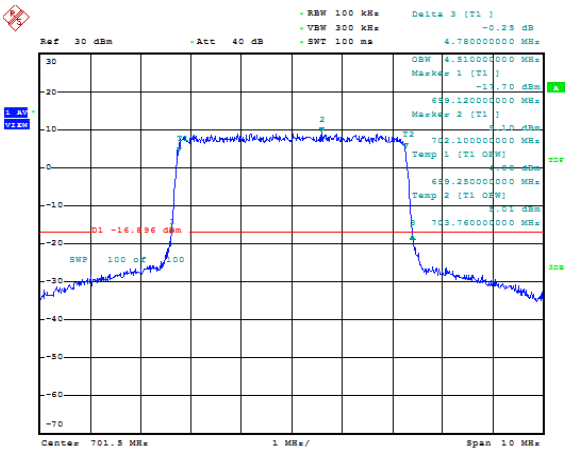

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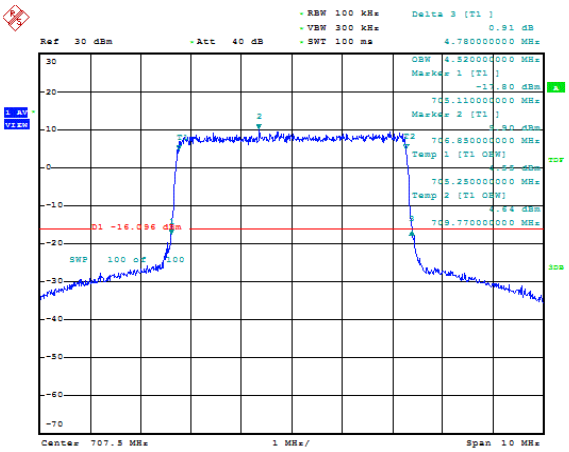

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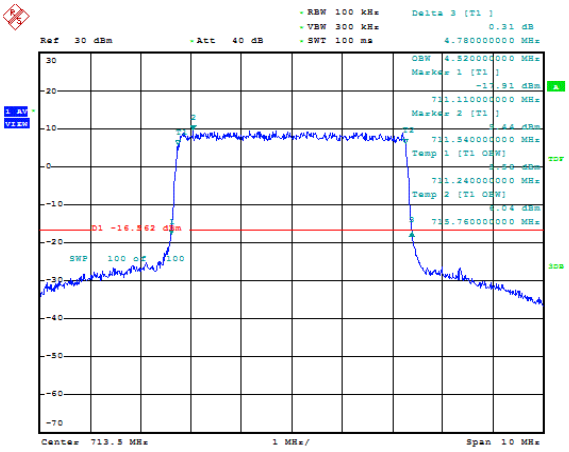

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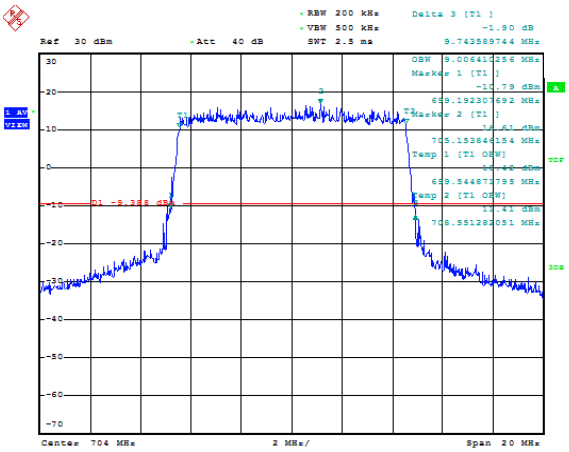

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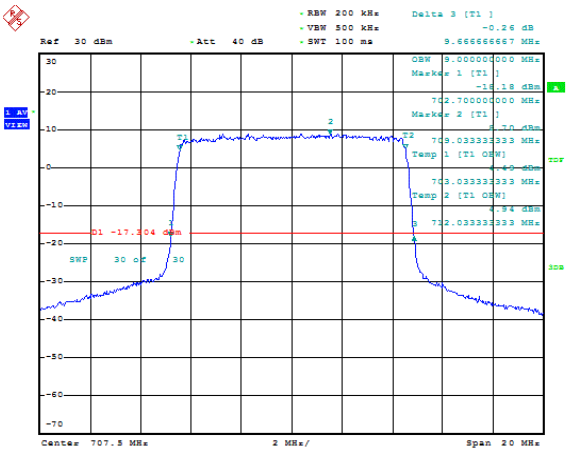
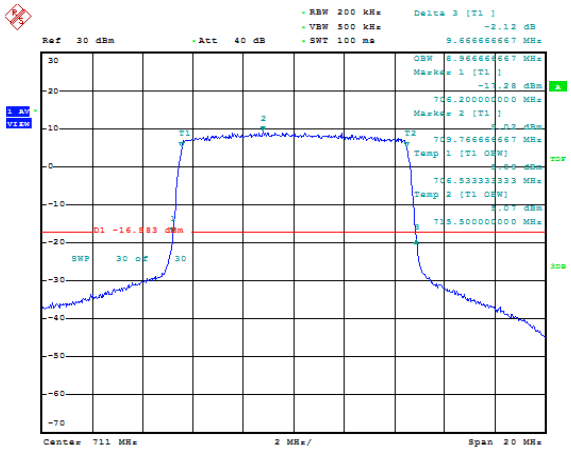


Band12-10MHz-QPSK-23130-50RB#0-8.967



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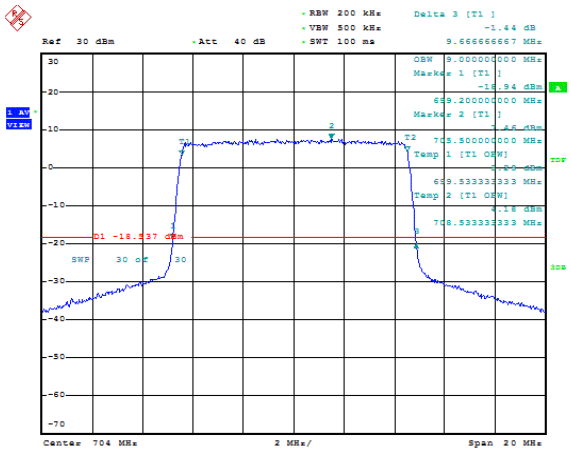

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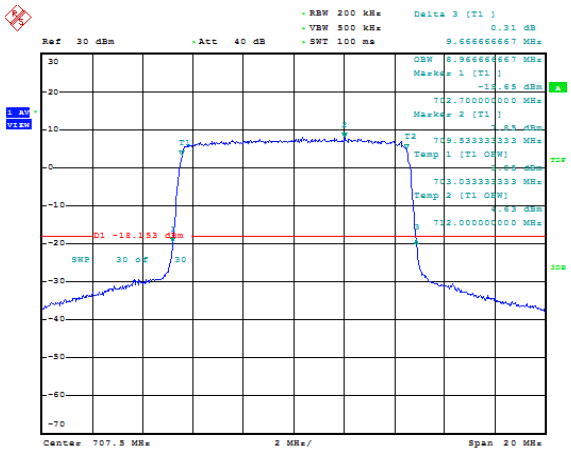
Band12-10MHz-16QAM-23095-50RB#0-8.967



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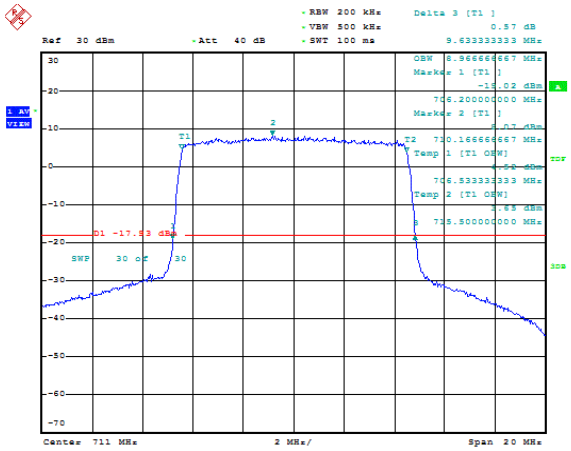
Band12-10MHz-16QAM-23130-50RB#0-8.967



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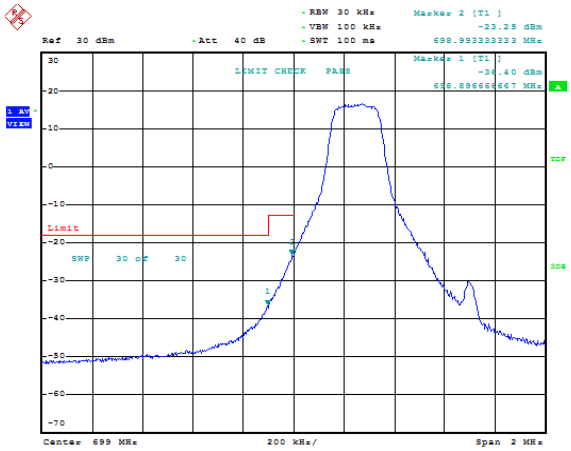
1.4. Appendix D: Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	-36.40,-23.25	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	-50.49,-50.27	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	-27.77,-25.61	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	-50.23,-43.26	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	-22.43,-31.38	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	-27.20,-29.66	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	-37.91,-23.89	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	-51.56,-50.84	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	-28.00,-26.17	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	-50.39,-43.55	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	-22.21,-30.75	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	-27.37,-28.97	PASS
Band12	3MHz	QPSK	23025	1RB#0	-33.65,-20.51	PASS
Band12	3MHz	QPSK	23025	1RB#14	-44.77,-50.64	PASS
Band12	3MHz	QPSK	23025	15RB#0	-29.05,-26.17	PASS
Band12	3MHz	QPSK	23165	1RB#0	-50.20,-44.87	PASS
Band12	3MHz	QPSK	23165	1RB#14	-19.61,-31.72	PASS
Band12	3MHz	QPSK	23165	15RB#0	-27.17,-30.71	PASS
Band12	3MHz	16QAM	23025	1RB#0	-34.59,-21.18	PASS
Band12	3MHz	16QAM	23025	1RB#14	-46.13,-51.20	PASS
Band12	3MHz	16QAM	23025	15RB#0	-29.68,-26.38	PASS
Band12	3MHz	16QAM	23165	1RB#0	-50.67,-44.77	PASS
Band12	3MHz	16QAM	23165	1RB#14	-19.86,-31.75	PASS
Band12	3MHz	16QAM	23165	15RB#0	-27.54,-30.30	PASS
Band12	5MHz	QPSK	23035	1RB#0	-34.15,-22.52	PASS
Band12	5MHz	QPSK	23035	1RB#24	-50.19,-49.80	PASS
Band12	5MHz	QPSK	23035	25RB#0	-28.27,-26.33	PASS
Band12	5MHz	QPSK	23155	1RB#0	-49.86,-50.27	PASS
Band12	5MHz	QPSK	23155	1RB#24	-22.51,-33.51	PASS
Band12	5MHz	QPSK	23155	25RB#0	-27.20,-29.94	PASS
Band12	5MHz	16QAM	23035	1RB#0	-35.97,-24.42	PASS
Band12	5MHz	16QAM	23035	1RB#24	-50.42,-50.00	PASS
Band12	5MHz	16QAM	23035	25RB#0	-28.89,-27.08	PASS

Band12	5MHz	16QAM	23155	1RB#0	-50.06,-50.34	PASS
Band12	5MHz	16QAM	23155	1RB#24	-22.65,-33.82	PASS
Band12	5MHz	16QAM	23155	25RB#0	-27.61,-29.56	PASS
Band12	10MHz	QPSK	23060	1RB#0	-24.06,-17.54	PASS
Band12	10MHz	QPSK	23060	1RB#49	-49.41,-48.48	PASS
Band12	10MHz	QPSK	23060	50RB#0	-28.72,-27.47	PASS
Band12	10MHz	QPSK	23130	1RB#0	-48.34,-49.13	PASS
Band12	10MHz	QPSK	23130	1RB#49	-14.19,-20.74	PASS
Band12	10MHz	QPSK	23130	50RB#0	-27.65,-29.44	PASS
Band12	10MHz	16QAM	23060	1RB#0	-24.97,-18.53	PASS
Band12	10MHz	16QAM	23060	1RB#49	-49.71,-48.95	PASS
Band12	10MHz	16QAM	23060	50RB#0	-29.23,-28.29	PASS
Band12	10MHz	16QAM	23130	1RB#0	-48.63,-49.43	PASS
Band12	10MHz	16QAM	23130	1RB#49	-14.42,-20.89	PASS
Band12	10MHz	16QAM	23130	50RB#0	-28.19,-29.56	PASS

Test Graphs

Band12-1.4MHz-QPSK-23017-1RB#0
 Date: 28.OCT.2020 19:48:11
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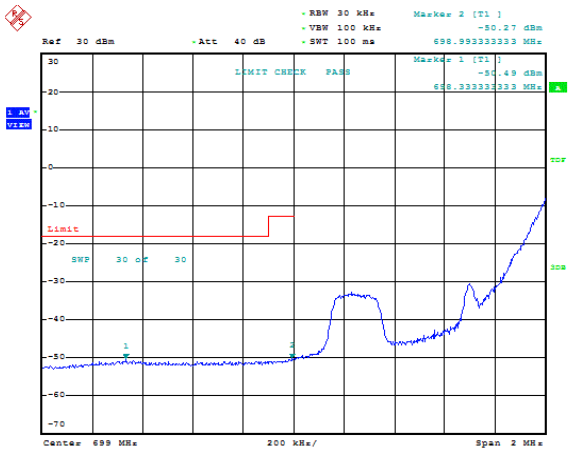 Date: 28.OCT.2020 19:48:32
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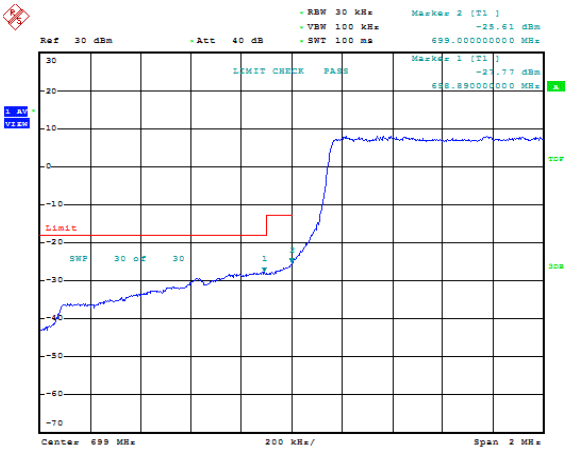

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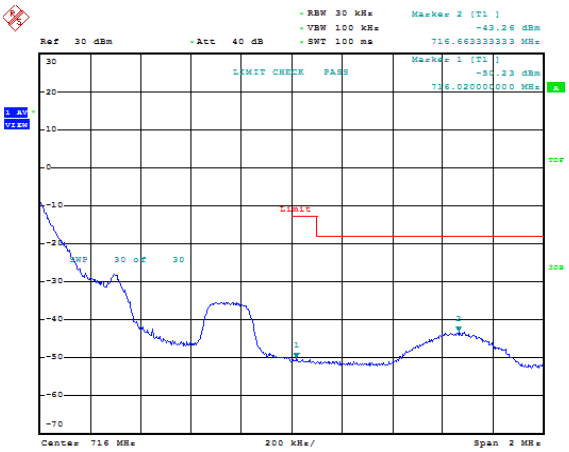

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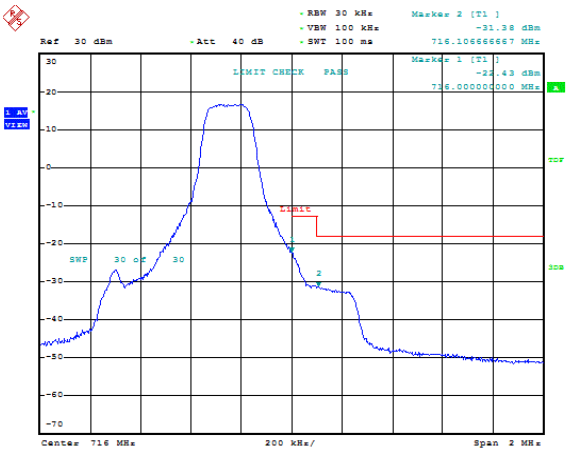

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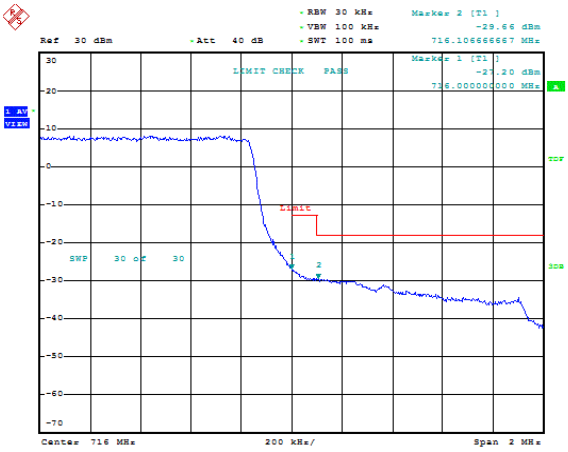

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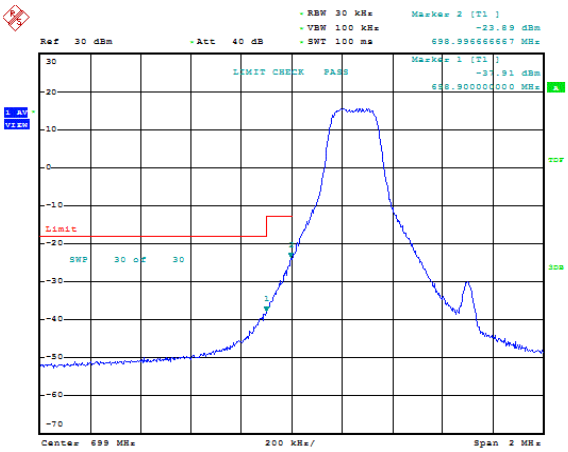

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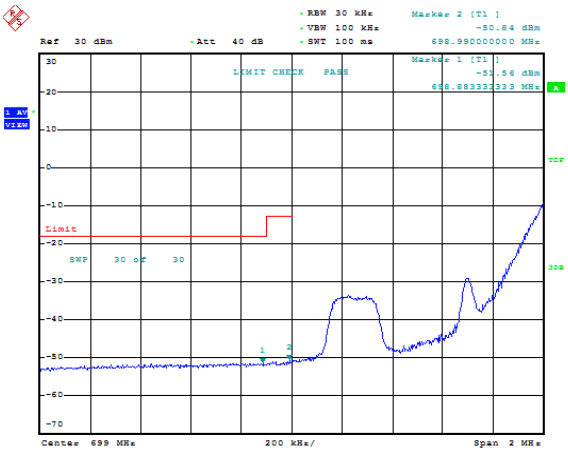

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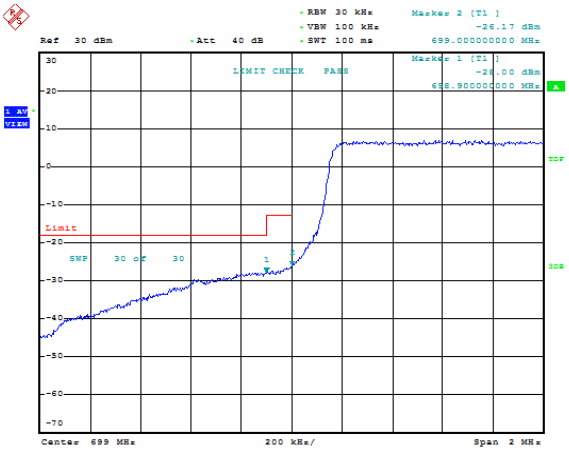

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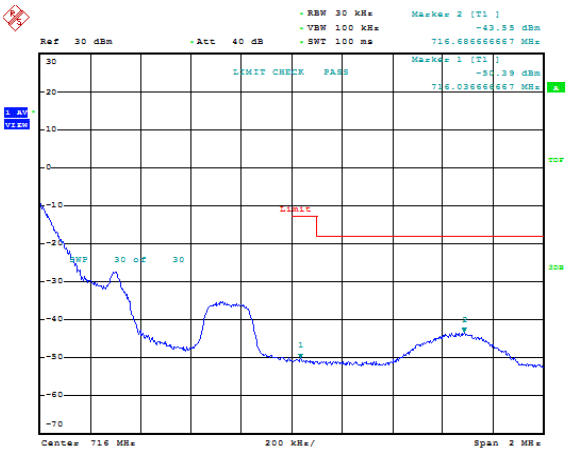

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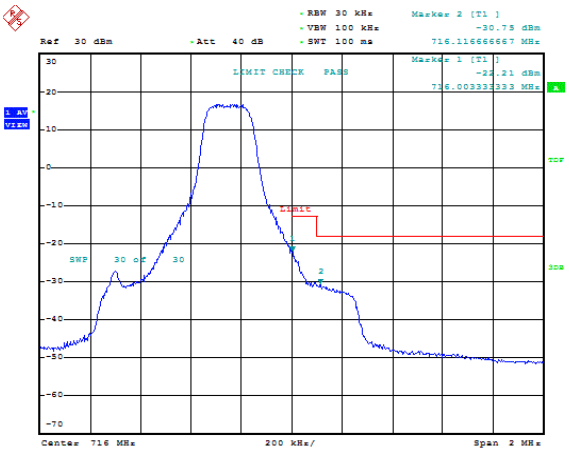

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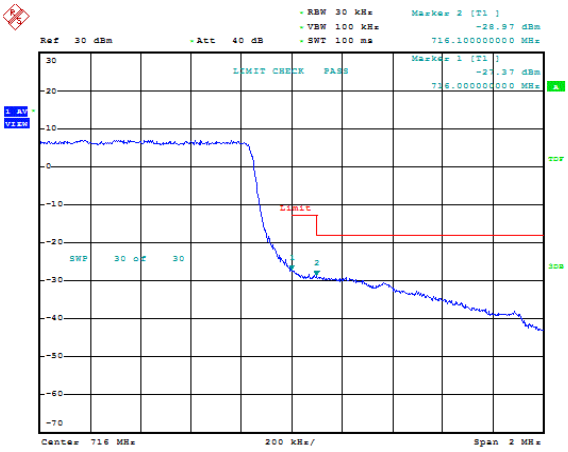

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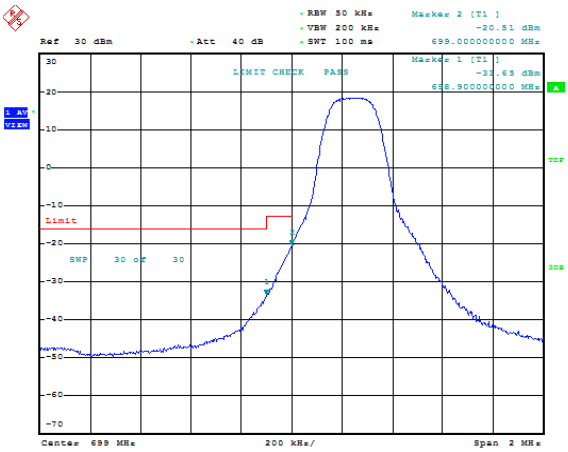

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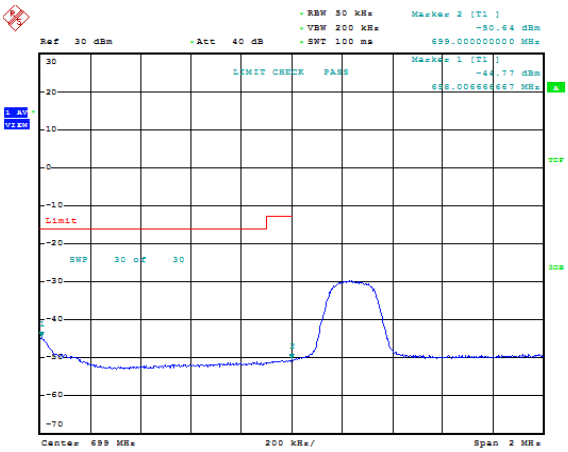

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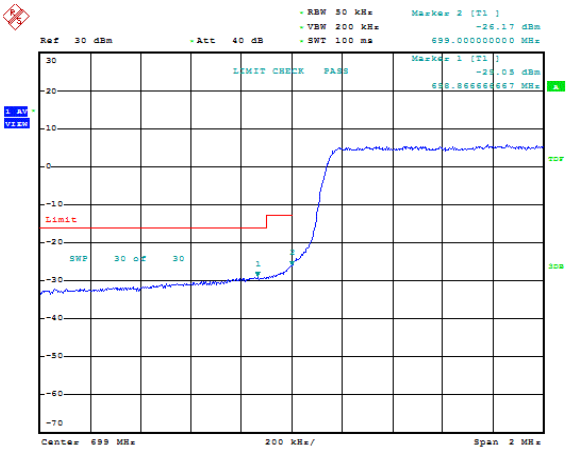

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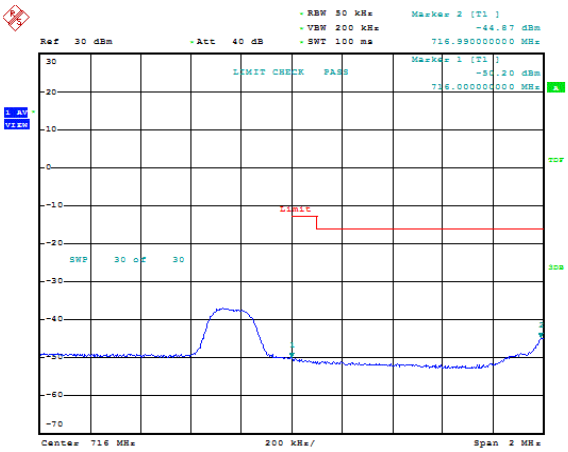

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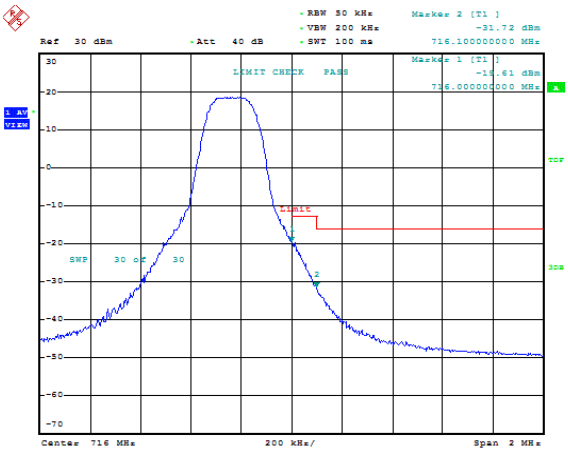

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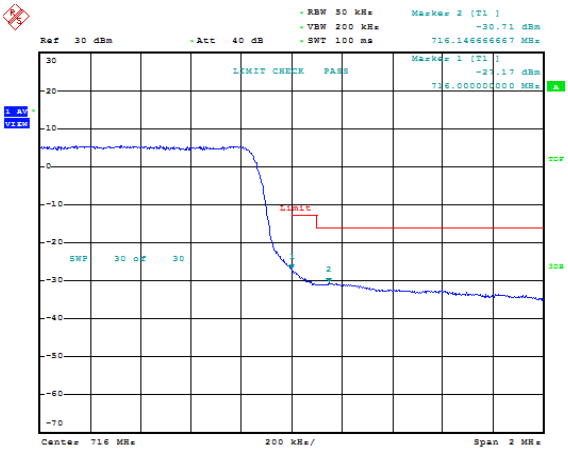

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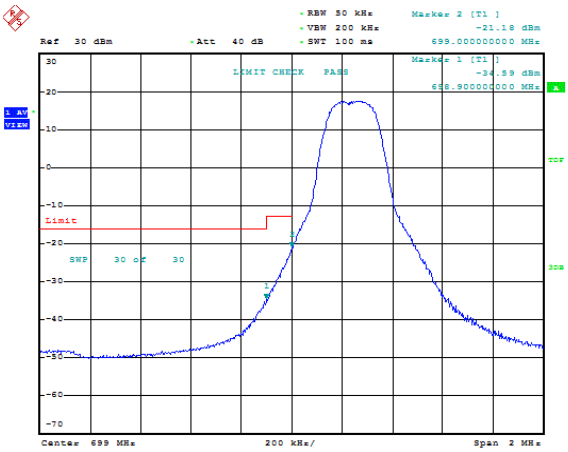

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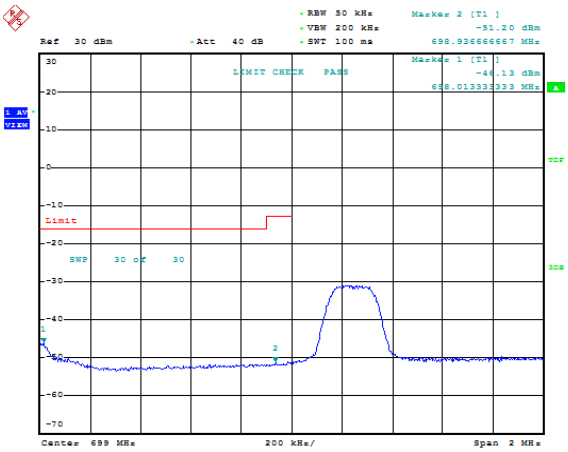

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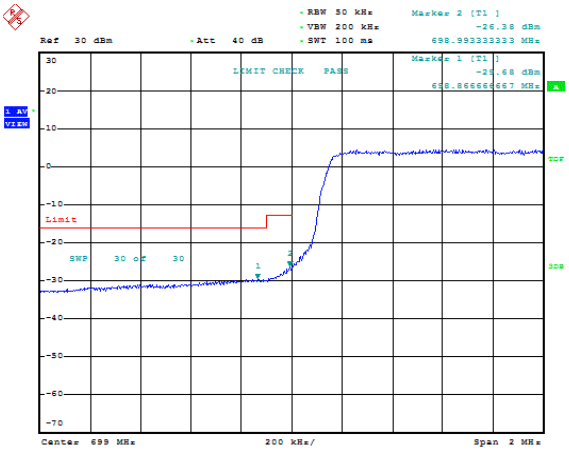

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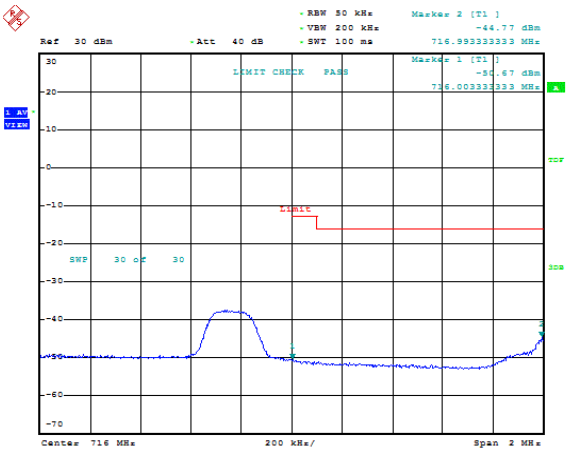

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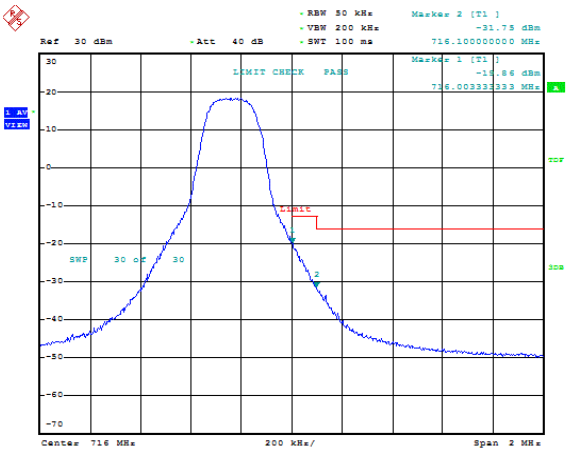

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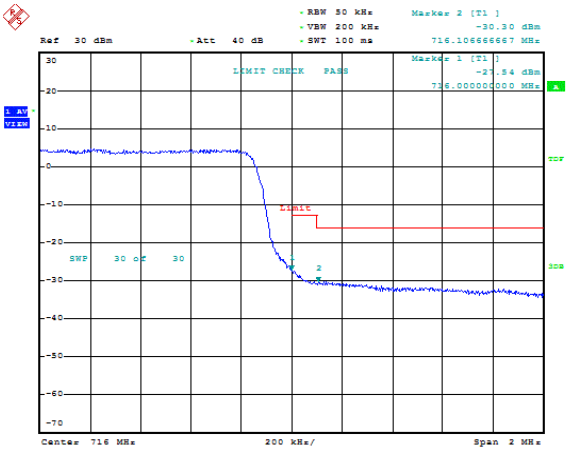

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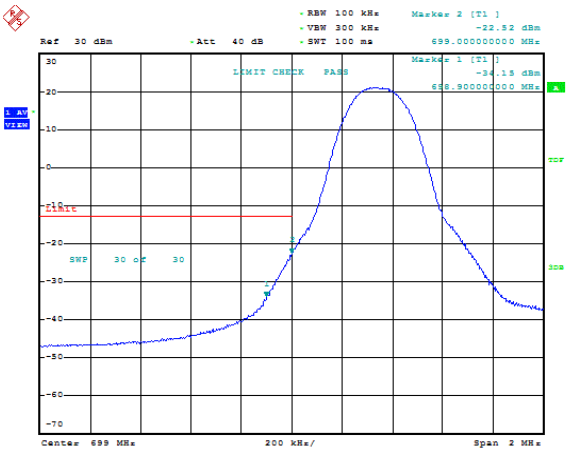

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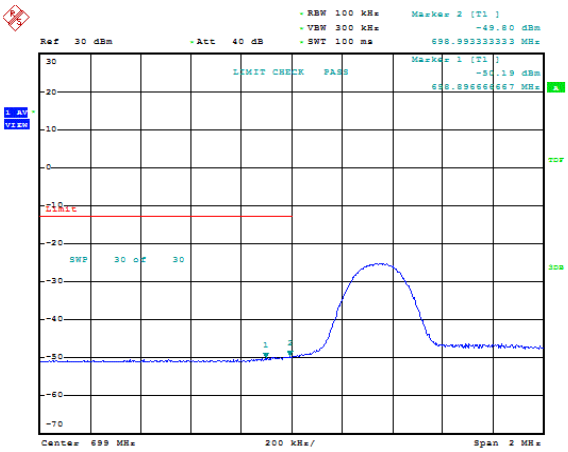

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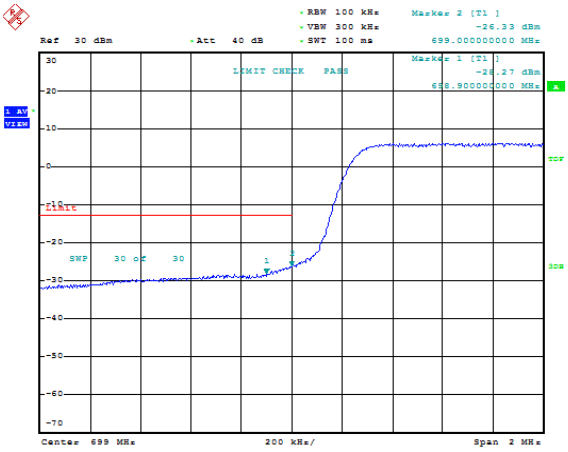

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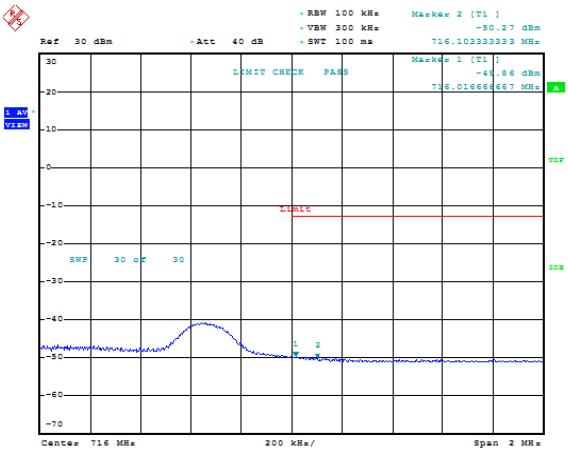

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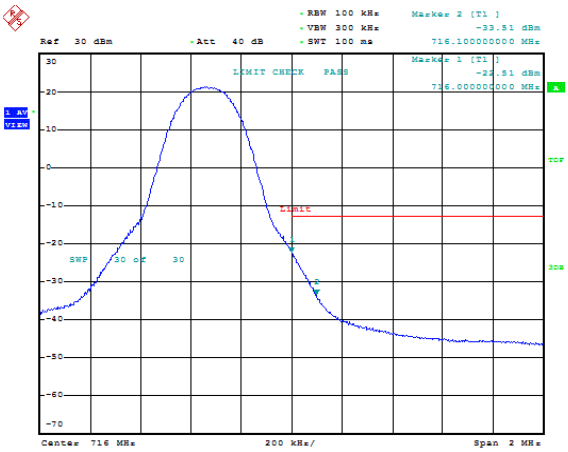

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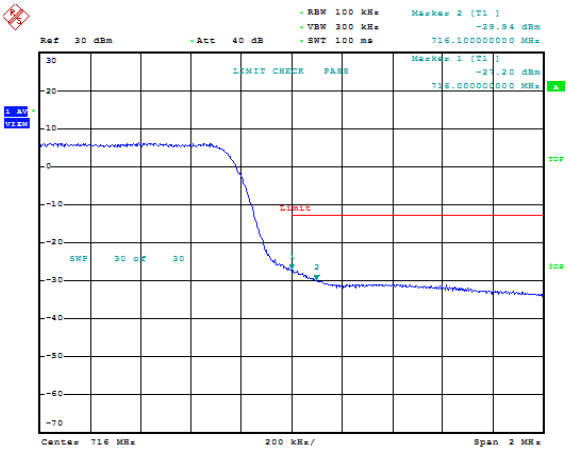

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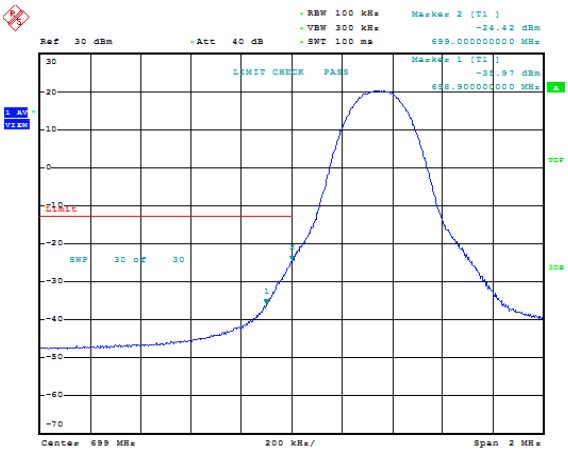

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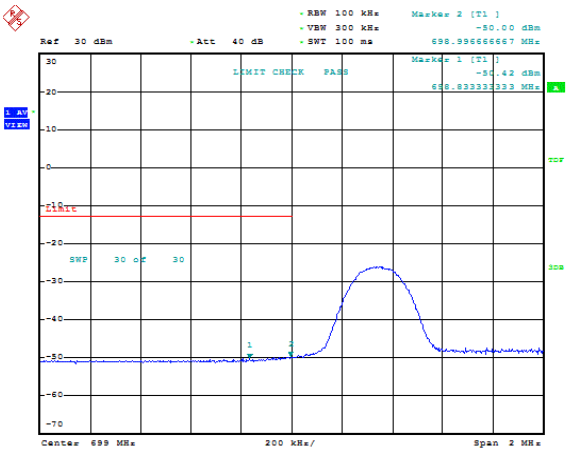

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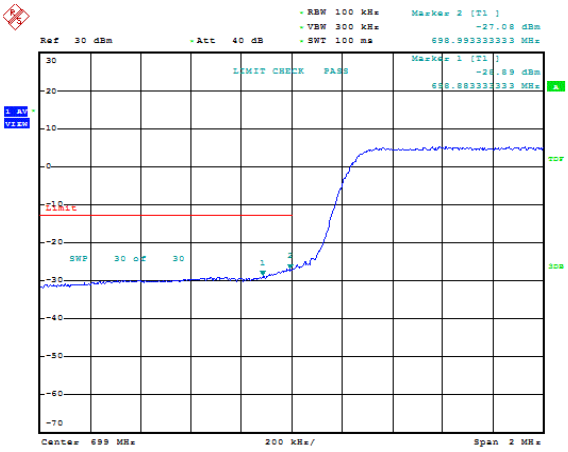

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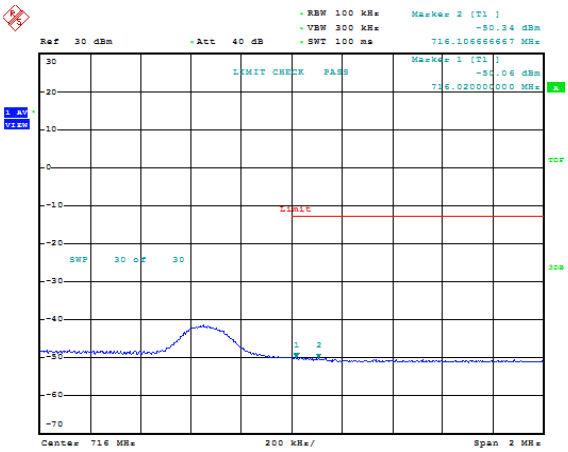

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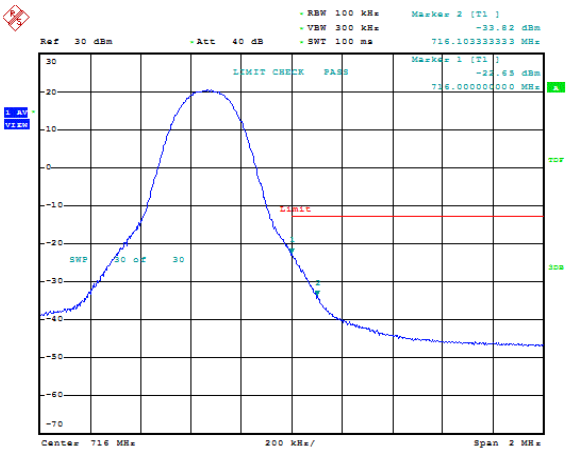

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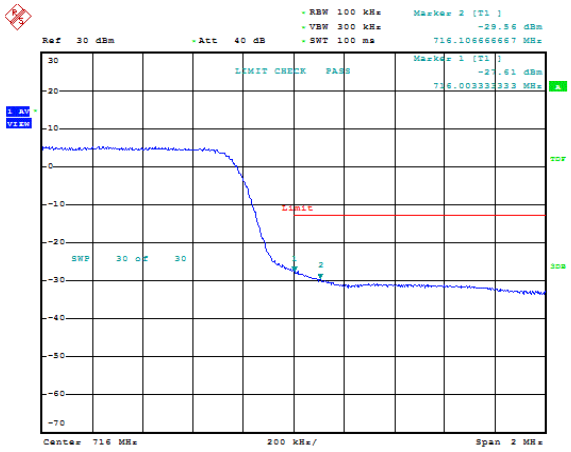

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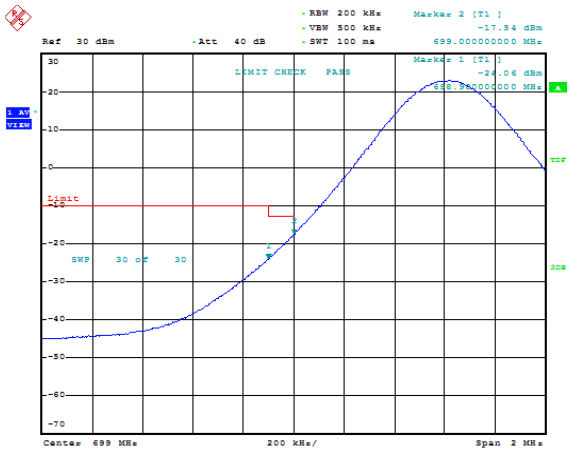

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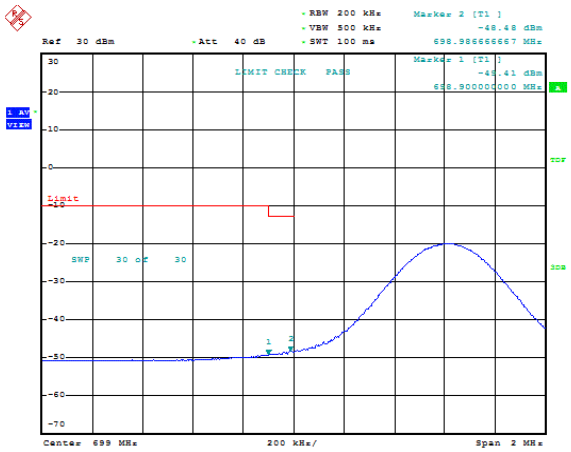

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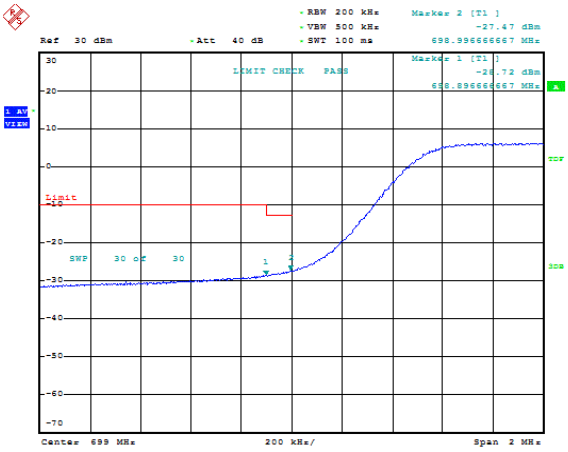

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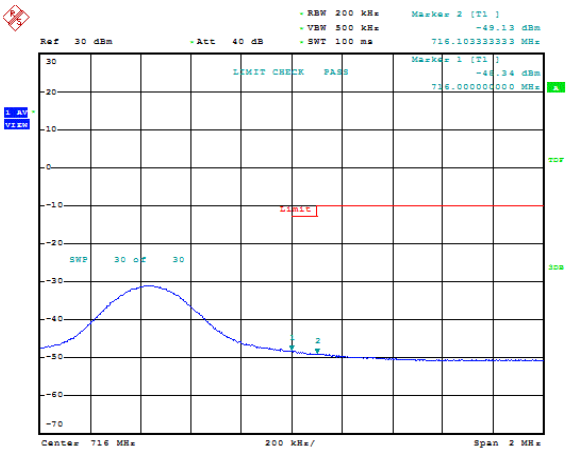

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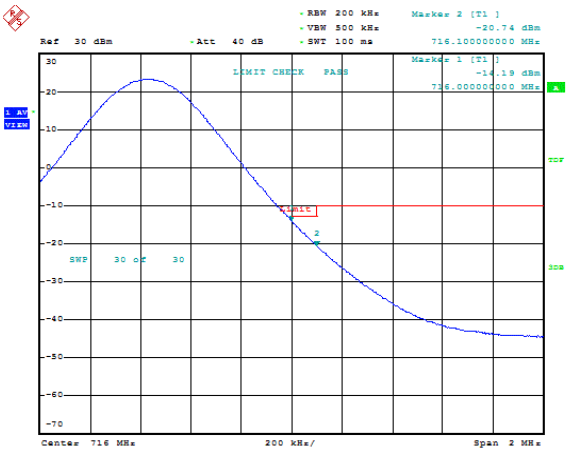

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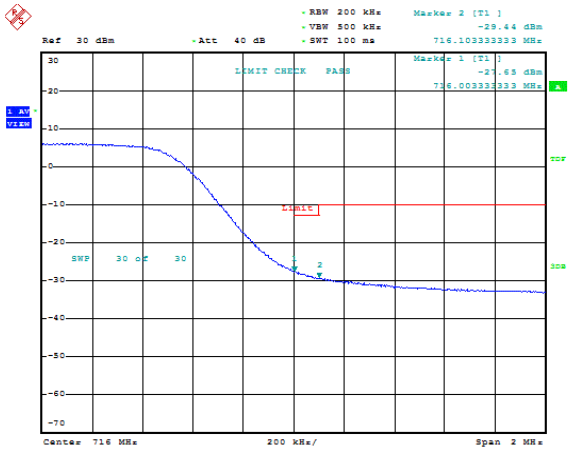
Band12-10MHz-QPSK-23130-50RB#0



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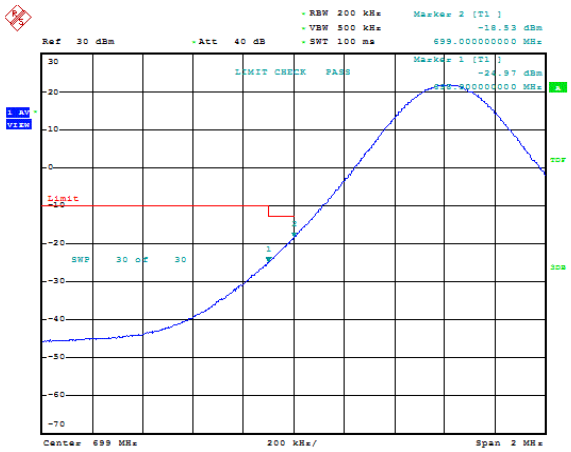
Band12-10MHz-16QAM-23060-1RB#0



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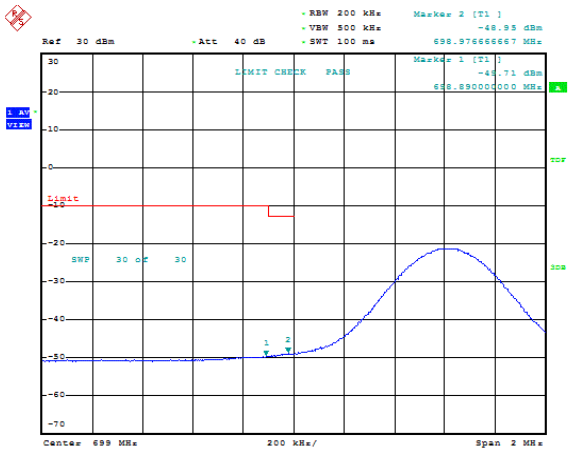
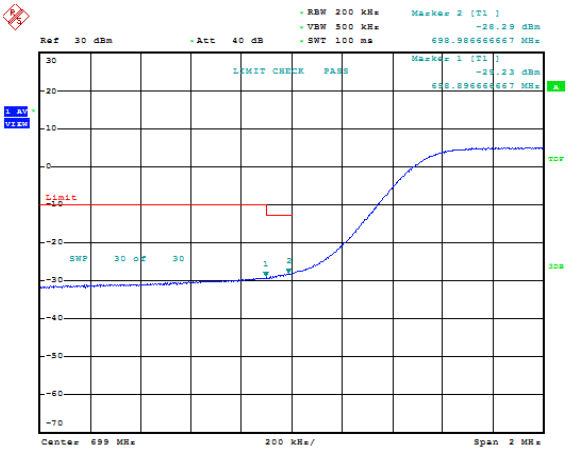
Band12-10MHz-16QAM-23060-1RB#49



Date: 28.OCT.2020 20:40:49

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



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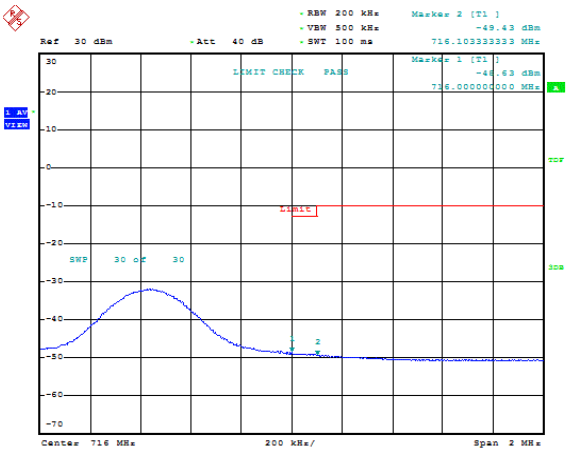
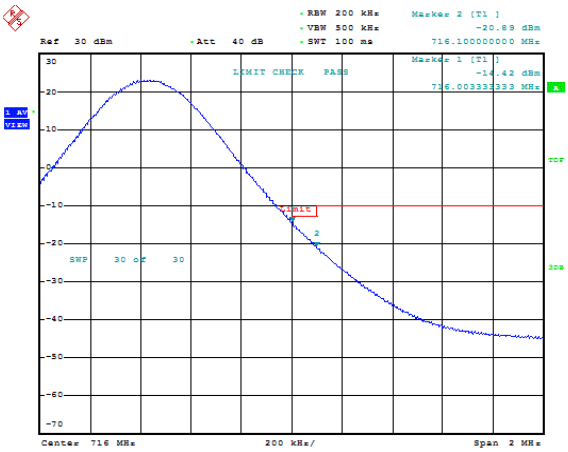


Date: 28.OCT.2020 20:41:45

Band12-10MHz-16QAM-23130-1RB#49



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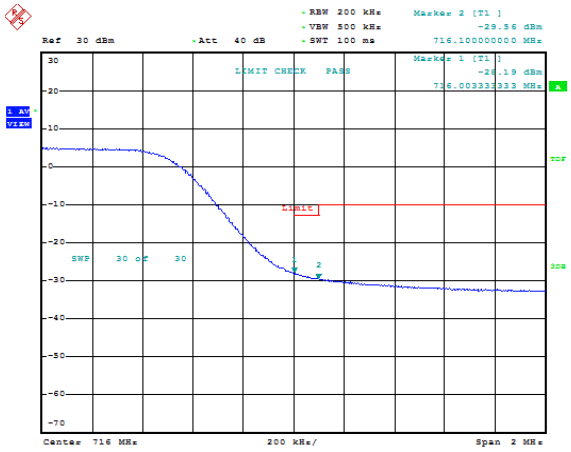
Band12-10MHz-16QAM-23130-50RB#0



Date: 28.OCT.2020 20:42:28

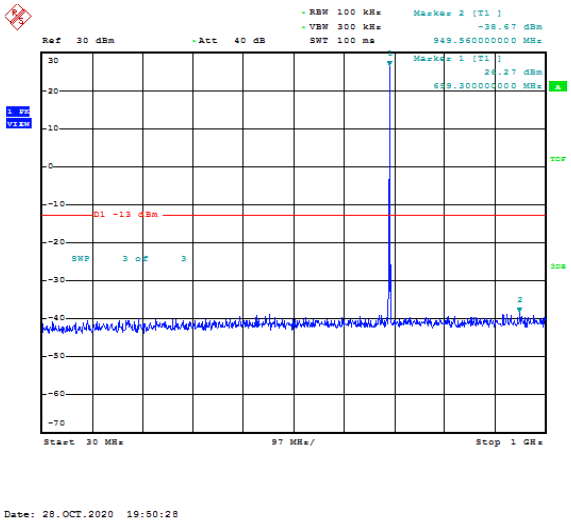
1.5. Appendix E: Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	Range1:30~1000MHz	-38.67	PASS
Band12	1.4MHz	QPSK	23017	1RB#0	Range2:1000~10000MHz	-33.1	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	Range1:30~1000MHz	-38.37	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	Range2:1000~10000MHz	-33.51	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	Range1:30~1000MHz	-38.59	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	Range2:1000~10000MHz	-33.79	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	Range1:30~1000MHz	-38.32	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	Range2:1000~10000MHz	-33.8	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	Range1:30~1000MHz	-38.61	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	Range2:1000~10000MHz	-33.31	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	Range1:30~1000MHz	-38.47	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	Range2:1000~10000MHz	-34.34	PASS
Band12	3MHz	QPSK	23025	1RB#0	Range1:30~1000MHz	-38.82	PASS
Band12	3MHz	QPSK	23025	1RB#0	Range2:1000~10000MHz	-33.79	PASS
Band12	3MHz	QPSK	23095	1RB#0	Range1:30~1000MHz	-38.53	PASS
Band12	3MHz	QPSK	23095	1RB#0	Range2:1000~10000MHz	-34.08	PASS
Band12	3MHz	QPSK	23165	1RB#0	Range1:30~1000MHz	-37.73	PASS
Band12	3MHz	QPSK	23165	1RB#0	Range2:1000~10000MHz	-33.92	PASS
Band12	3MHz	16QAM	23025	1RB#0	Range1:30~1000MHz	-38.82	PASS
Band12	3MHz	16QAM	23025	1RB#0	Range2:1000~10000MHz	-32.69	PASS
Band12	3MHz	16QAM	23095	1RB#0	Range1:30~1000MHz	-38.36	PASS
Band12	3MHz	16QAM	23095	1RB#0	Range2:1000~10000MHz	-33.95	PASS
Band12	3MHz	16QAM	23165	1RB#0	Range1:30~1000MHz	-38.17	PASS
Band12	3MHz	16QAM	23165	1RB#0	Range2:1000~10000MHz	-33.56	PASS
Band12	5MHz	QPSK	23035	1RB#0	Range1:30~1000MHz	-38.87	PASS
Band12	5MHz	QPSK	23035	1RB#0	Range2:1000~10000MHz	-33.66	PASS
Band12	5MHz	QPSK	23095	1RB#0	Range1:30~1000MHz	-38.57	PASS
Band12	5MHz	QPSK	23095	1RB#0	Range2:1000~10000MHz	-33.94	PASS
Band12	5MHz	QPSK	23155	1RB#0	Range1:30~1000MHz	-38.38	PASS
Band12	5MHz	QPSK	23155	1RB#0	Range2:1000~10000MHz	-33.64	PASS
Band12	5MHz	16QAM	23035	1RB#0	Range1:30~1000MHz	-38.92	PASS
Band12	5MHz	16QAM	23035	1RB#0	Range2:1000~10000MHz	-34.35	PASS

Band12	5MHz	16QAM	23095	1RB#0	Range1:30~1000MHz	-38.51	PASS
Band12	5MHz	16QAM	23095	1RB#0	Range2:1000~10000MHz	-33.44	PASS
Band12	5MHz	16QAM	23155	1RB#0	Range1:30~1000MHz	-38.84	PASS
Band12	5MHz	16QAM	23155	1RB#0	Range2:1000~10000MHz	-33.96	PASS
Band12	10MHz	QPSK	23060	1RB#0	Range1:30~1000MHz	-38.65	PASS
Band12	10MHz	QPSK	23060	1RB#0	Range2:1000~10000MHz	-34.13	PASS
Band12	10MHz	QPSK	23095	1RB#0	Range1:30~1000MHz	-37.15	PASS
Band12	10MHz	QPSK	23095	1RB#0	Range2:1000~10000MHz	-33.25	PASS
Band12	10MHz	QPSK	23130	1RB#0	Range1:30~1000MHz	-38.73	PASS
Band12	10MHz	QPSK	23130	1RB#0	Range2:1000~10000MHz	-34.66	PASS
Band12	10MHz	16QAM	23060	1RB#0	Range1:30~1000MHz	-38.03	PASS
Band12	10MHz	16QAM	23060	1RB#0	Range2:1000~10000MHz	-33.86	PASS
Band12	10MHz	16QAM	23095	1RB#0	Range1:30~1000MHz	-38.01	PASS
Band12	10MHz	16QAM	23095	1RB#0	Range2:1000~10000MHz	-34.06	PASS
Band12	10MHz	16QAM	23130	1RB#0	Range1:30~1000MHz	-38.74	PASS
Band12	10MHz	16QAM	23130	1RB#0	Range2:1000~10000MHz	-33.78	PASS

Test Graphs

Band12-1.4MHz-QPSK-23017-1RB#0-Range1:30~1000MHz


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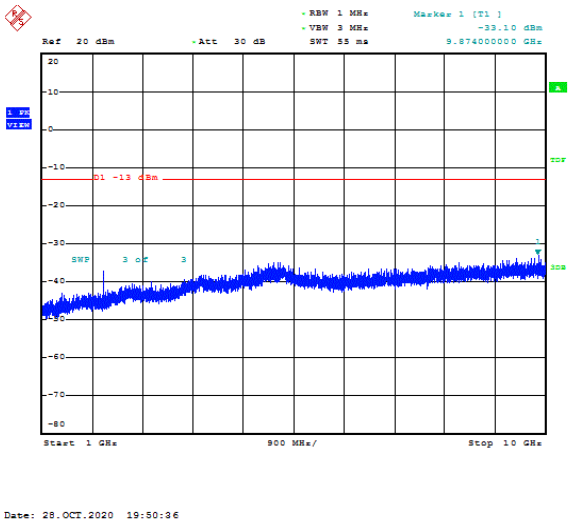

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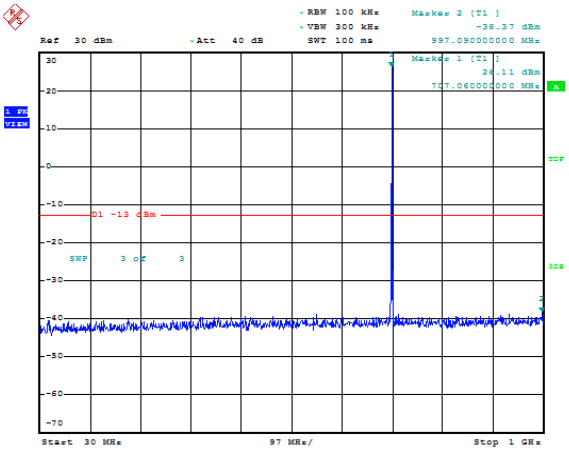

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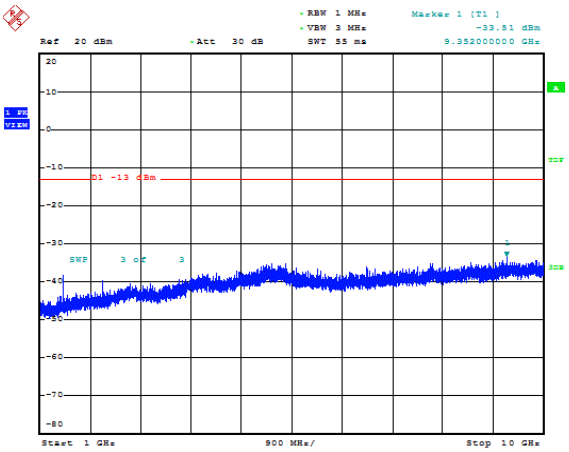

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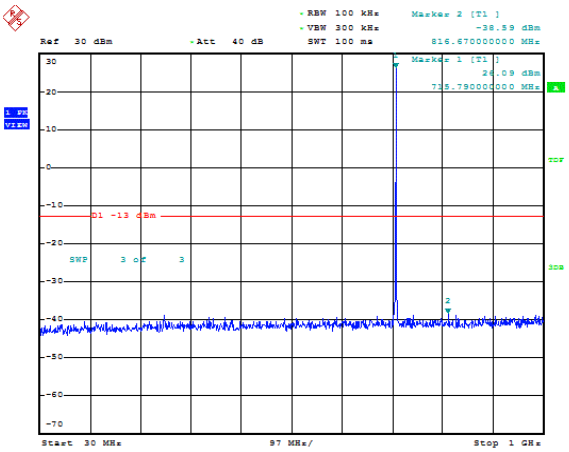

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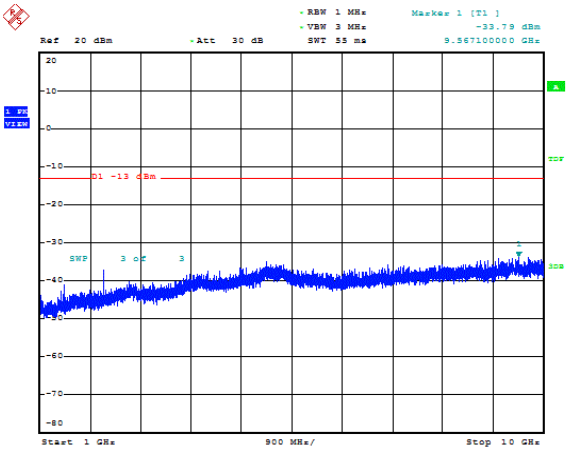

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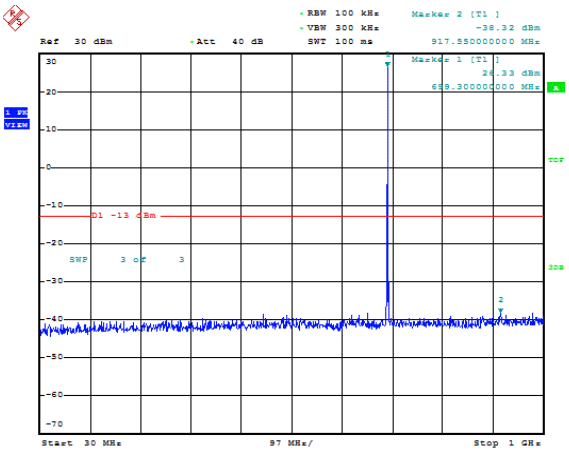

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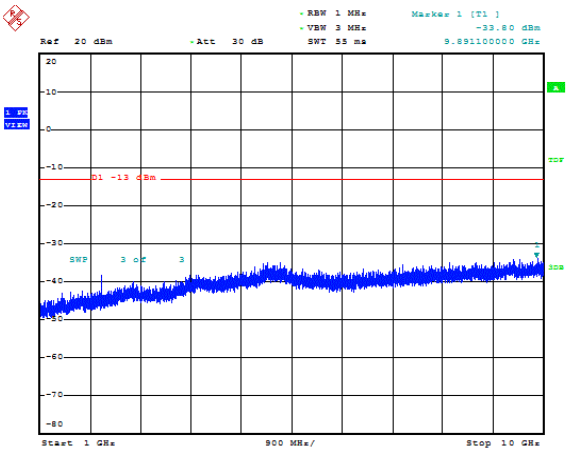

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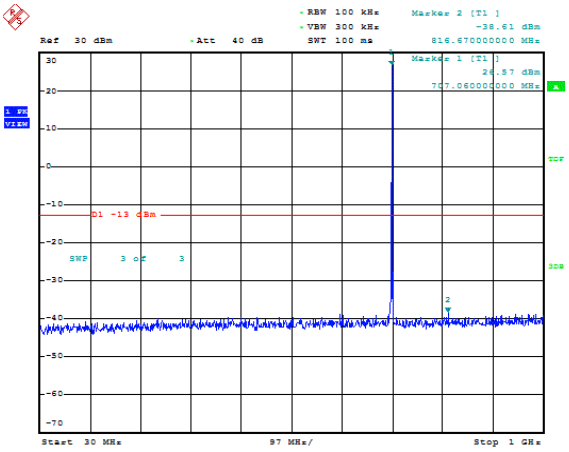

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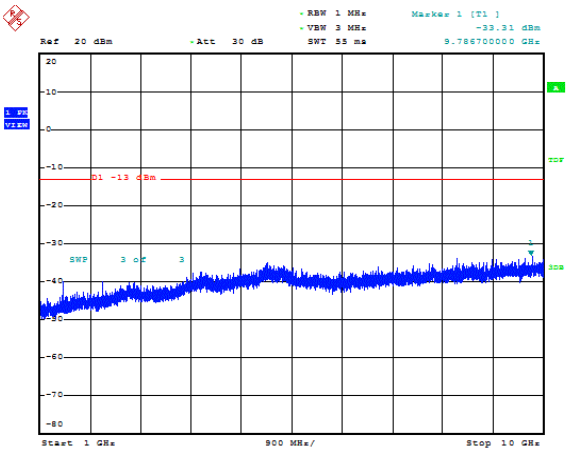

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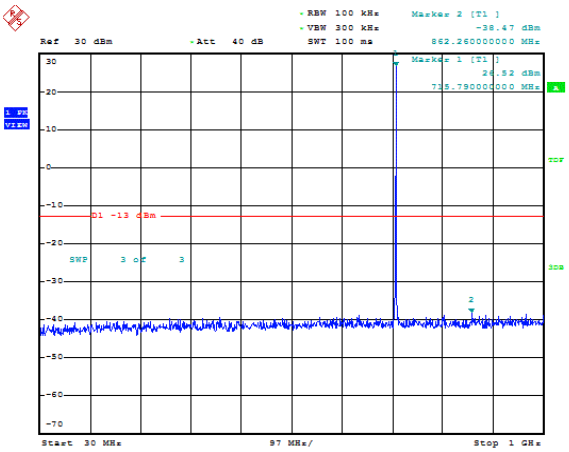
Band12-1.4MHz-16QAM-23173-1RB#0-Range1:30~1000MHz



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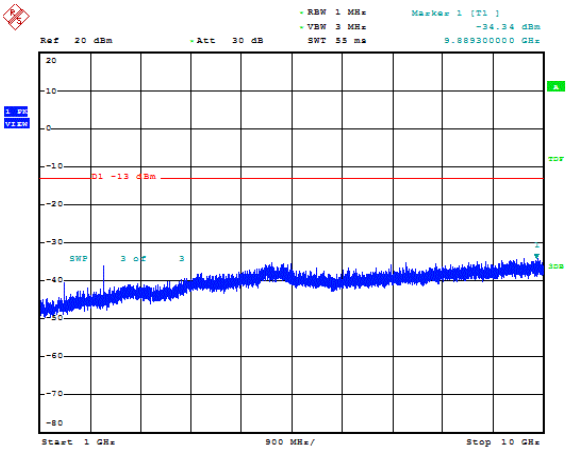
Band12-1.4MHz-16QAM-23173-1RB#0-Range2:1000~10000MHz



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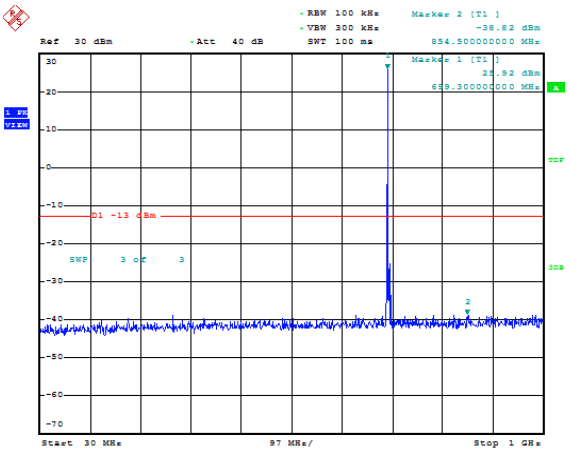

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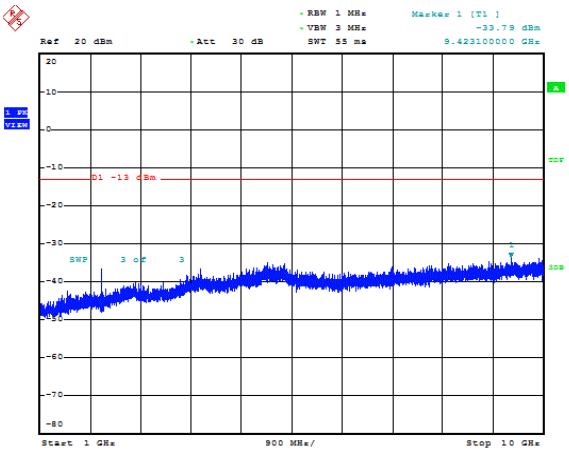
Band12-3MHz-QPSK-23025-1RB#0-Range2:1000~10000MHz



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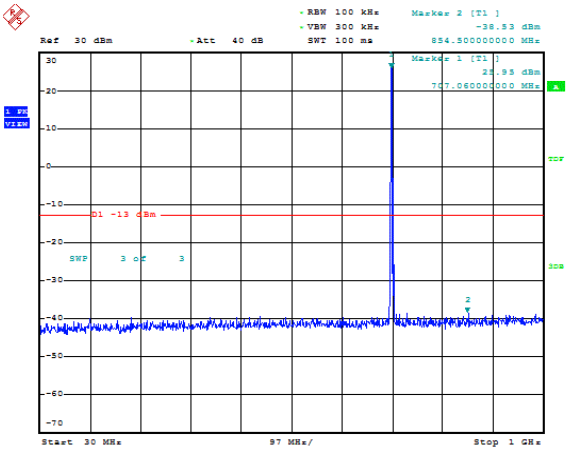
Band12-3MHz-QPSK-23095-1RB#0-Range1:30~1000MHz



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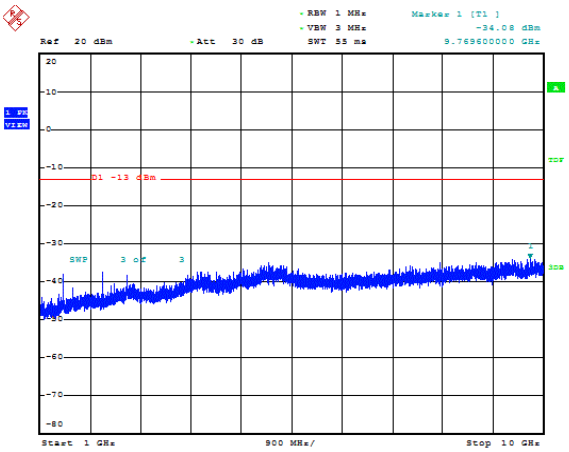

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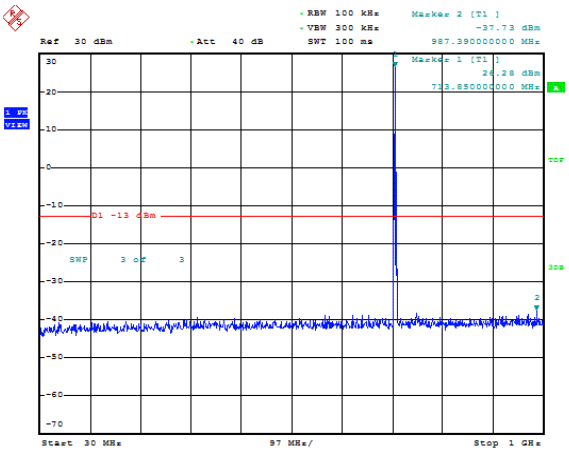
Band12-3MHz-QPSK-23165-1RB#0-Range1:30~1000MHz



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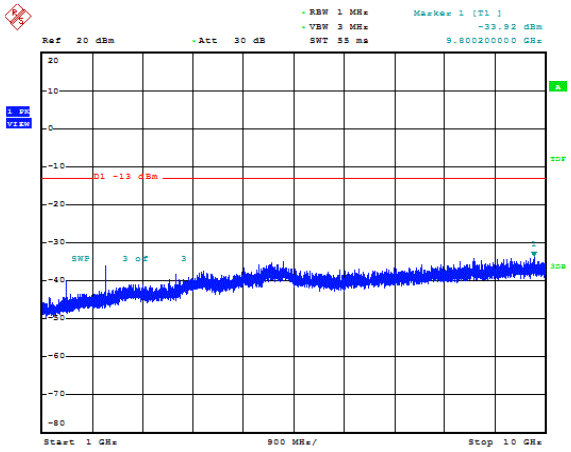
Band12-3MHz-QPSK-23165-1RB#0-Range2:1000~10000MHz



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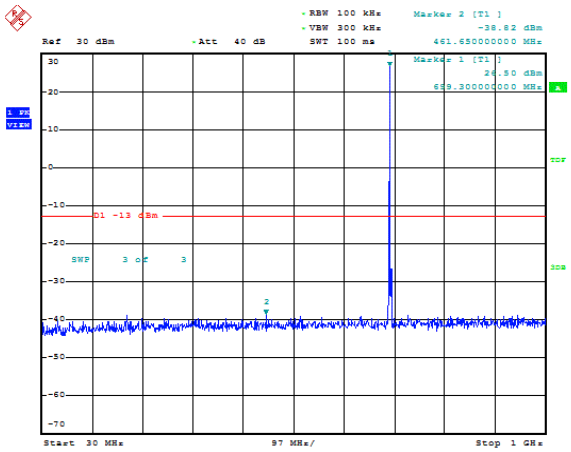
Band12-3MHz-16QAM-23025-1RB#0-Range1:30~1000MHz



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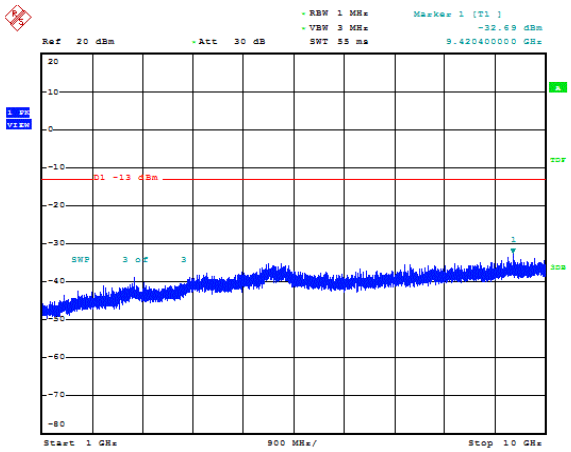
Band12-3MHz-16QAM-23025-1RB#0-Range2:1000~10000MHz



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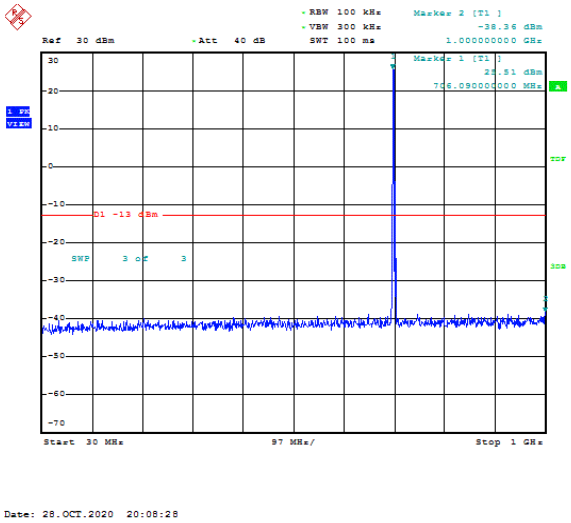
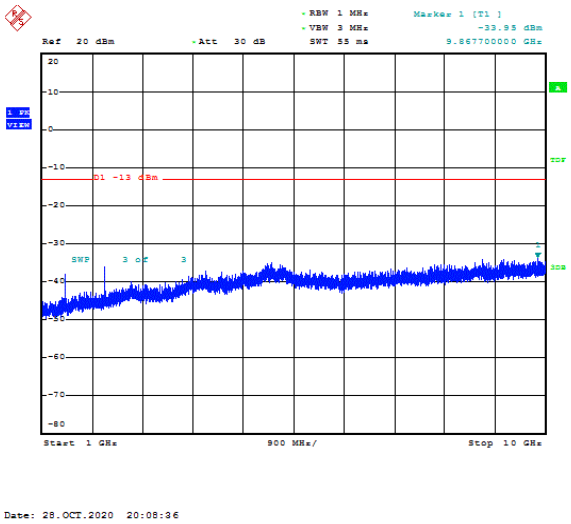
Band12-3MHz-16QAM-23095-1RB#0-Range1:30~1000MHz



Band12-3MHz-16QAM-23095-1RB#0-Range2:1000~10000MHz



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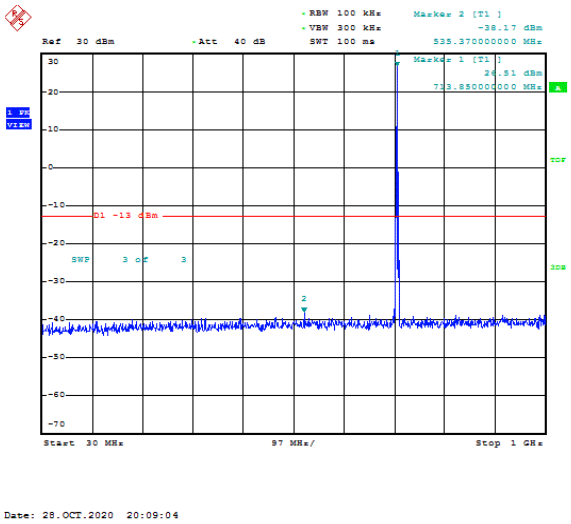
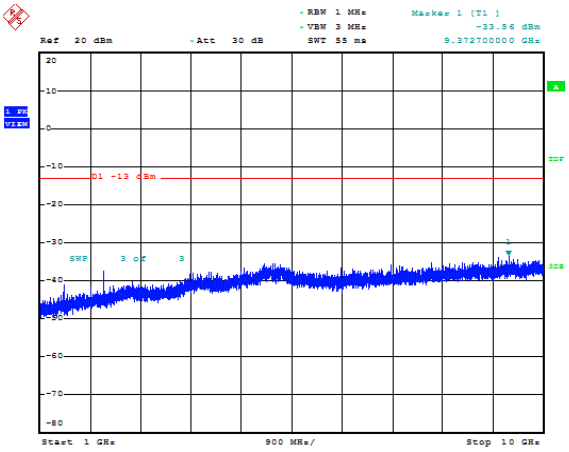


Band12-3MHz-16QAM-23165-1RB#0-Range2:1000~10000MHz



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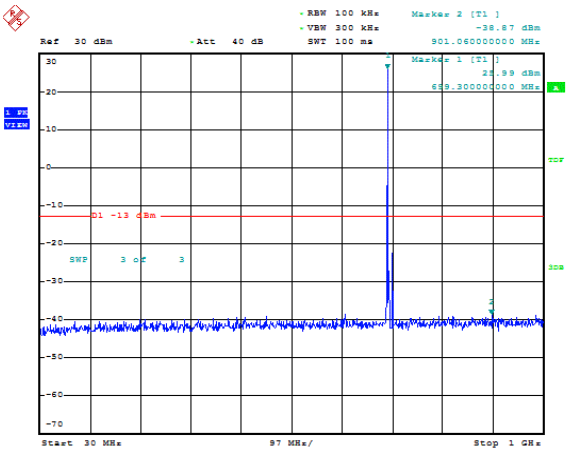

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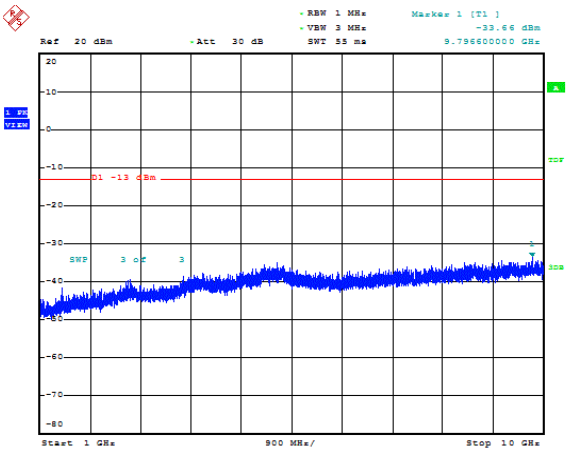
Band12-5MHz-QPSK-23035-1RB#0-Range2:1000~10000MHz



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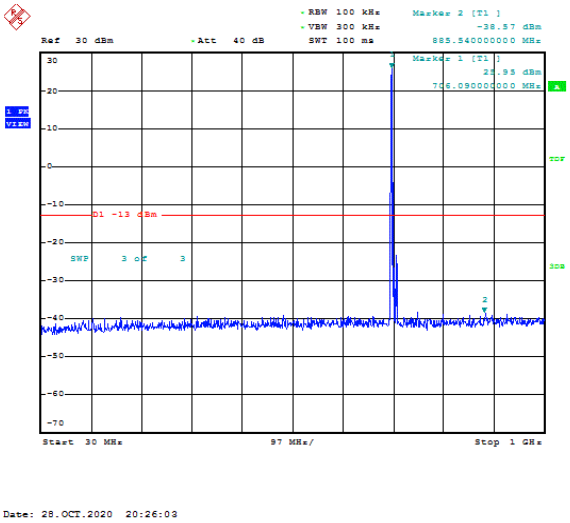
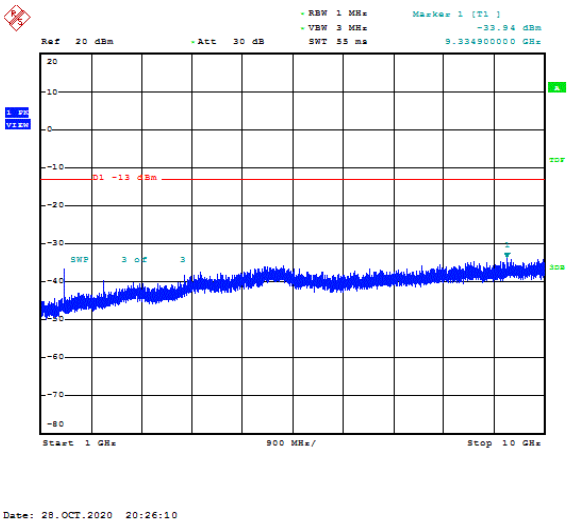
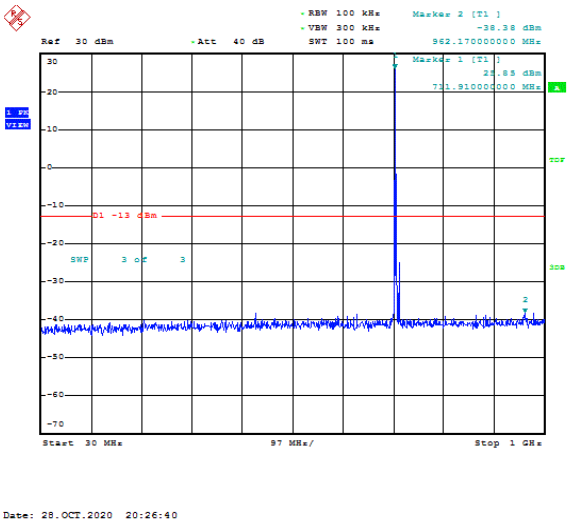


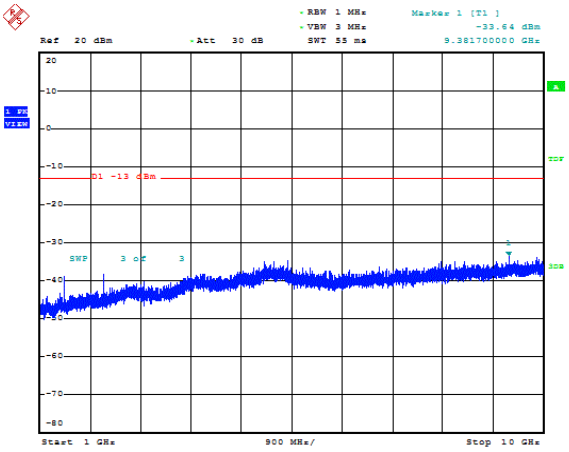
Band12-5MHz-QPSK-23095-1RB#0-Range2:1000~10000MHz



Band12-5MHz-QPSK-23155-1RB#0-Range1:30~1000MHz

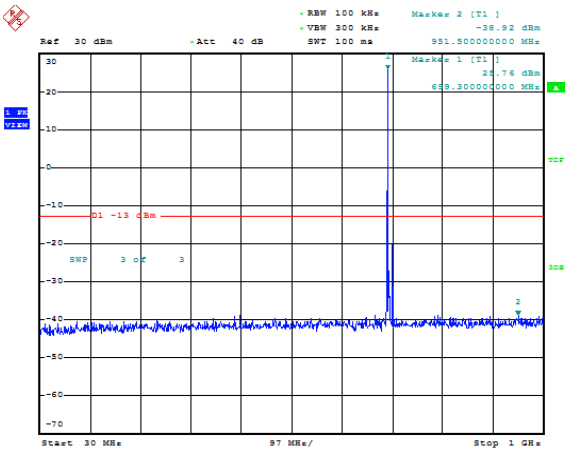


Band12-5MHz-QPSK-23155-1RB#0-Range2:1000~10000MHz



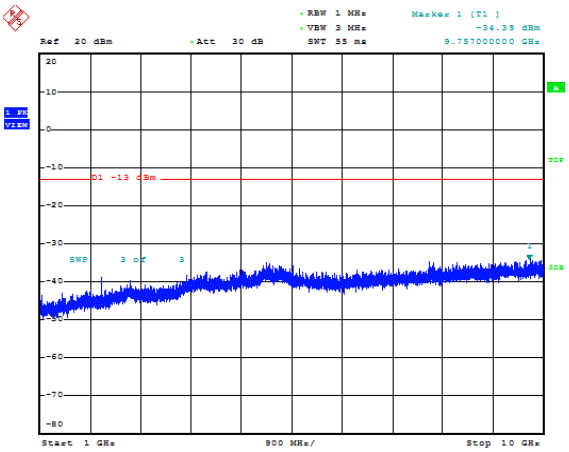
Date: 28.OCT.2020 20:26:47

Band12-5MHz-16QAM-23035-1RB#0-Range1:30~1000MHz



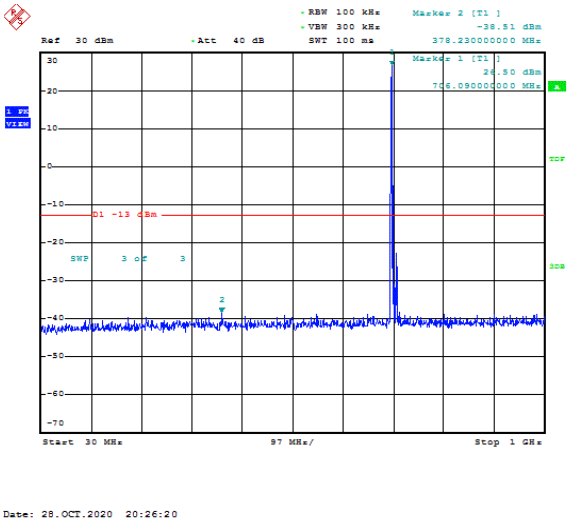
Date: 28.OCT.2020 20:25:43

Band12-5MHz-16QAM-23035-1RB#0-Range2:1000~10000MHz

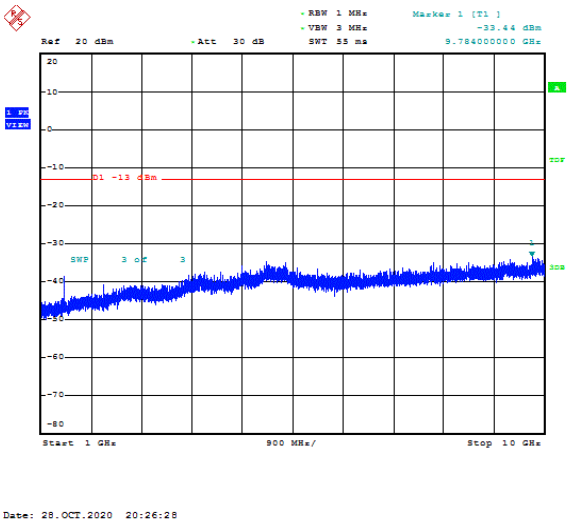


Date: 28.OCT.2020 20:25:51

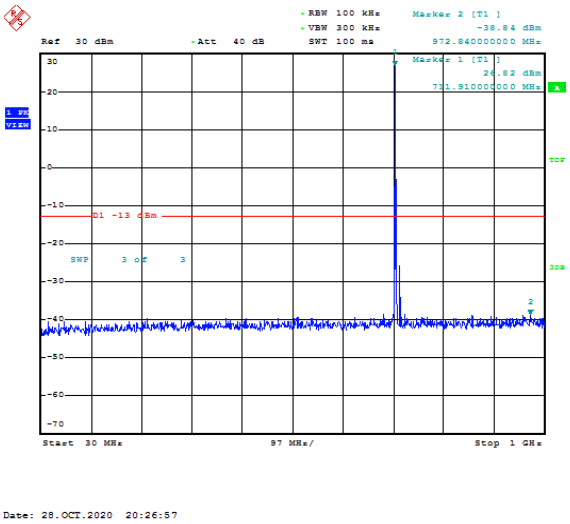
Band12-5MHz-16QAM-23095-1RB#0-Range1:30~1000MHz



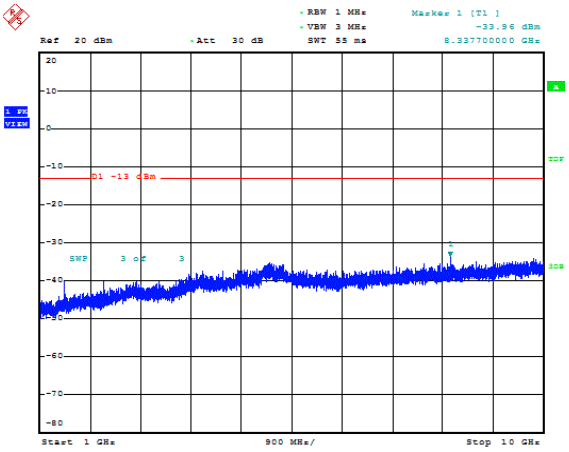
Band12-5MHz-16QAM-23095-1RB#0-Range2:1000~10000MHz



Band12-5MHz-16QAM-23155-1RB#0-Range1:30~1000MHz

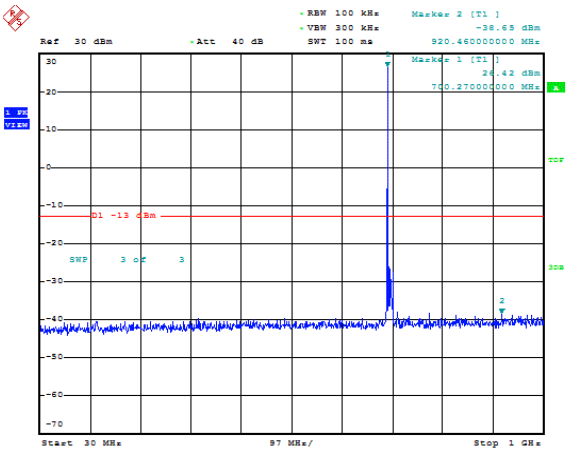


Band12-5MHz-16QAM-23155-1RB#0-Range2:1000~10000MHz



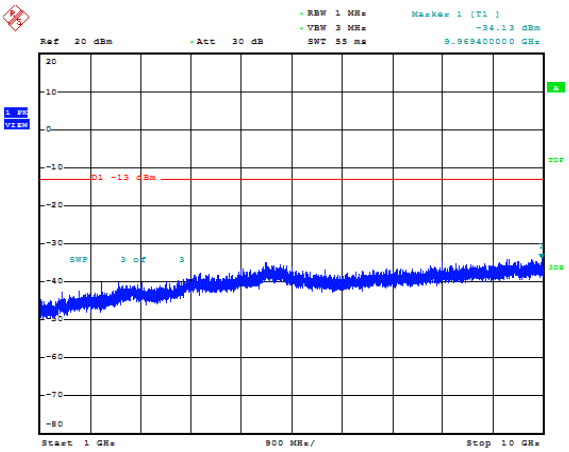
Date: 28.OCT.2020 20:27:05

Band12-10MHz-QPSK-23060-1RB#0-Range1:30~1000MHz



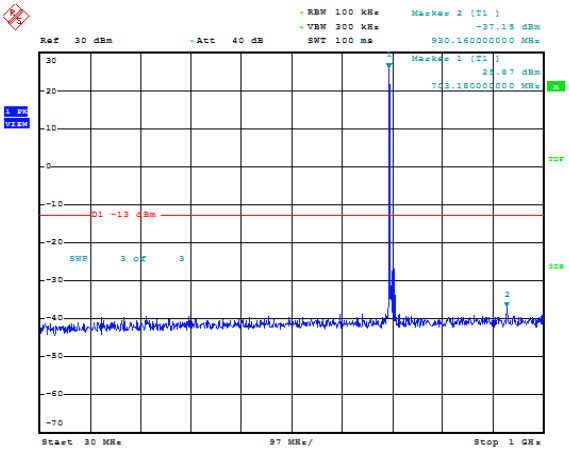
Date: 28.OCT.2020 20:42:40

Band12-10MHz-QPSK-23060-1RB#0-Range2:1000~10000MHz



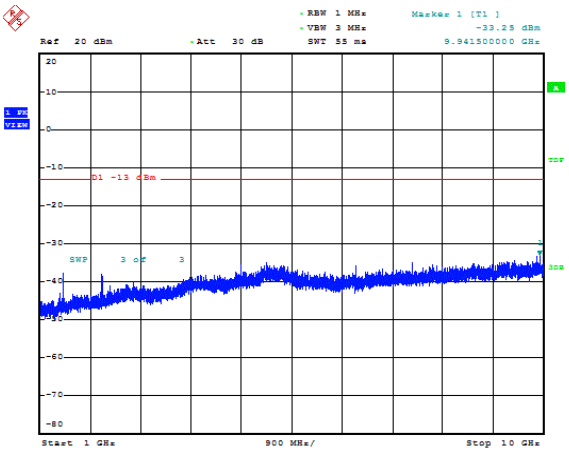
Date: 28.OCT.2020 20:42:48

Band12-10MHz-QPSK-23095-1RB#0-Range1:30~1000MHz



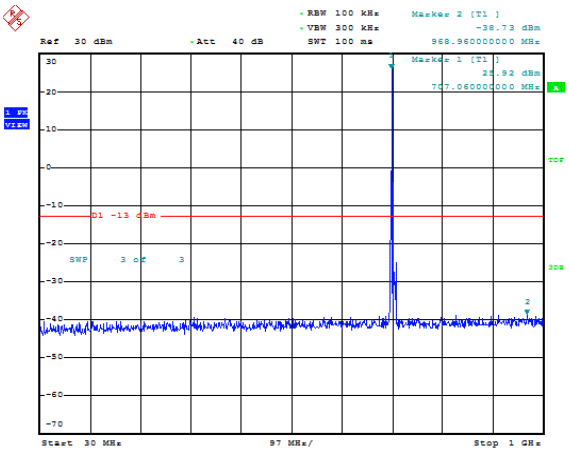
Date: 28.OCT.2020 20:43:17

Band12-10MHz-QPSK-23095-1RB#0-Range2:1000~10000MHz



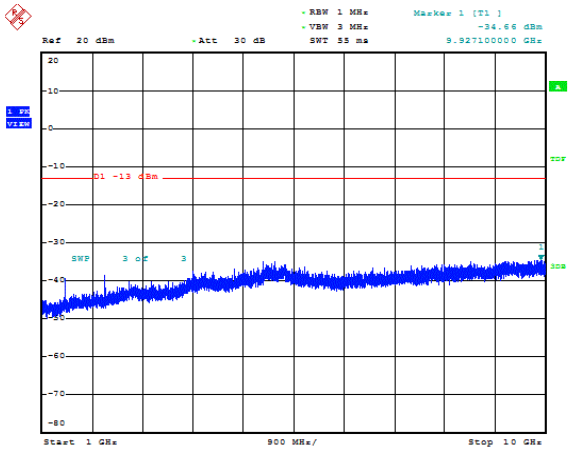
Date: 28.OCT.2020 20:43:25

Band12-10MHz-QPSK-23130-1RB#0-Range1:30~1000MHz



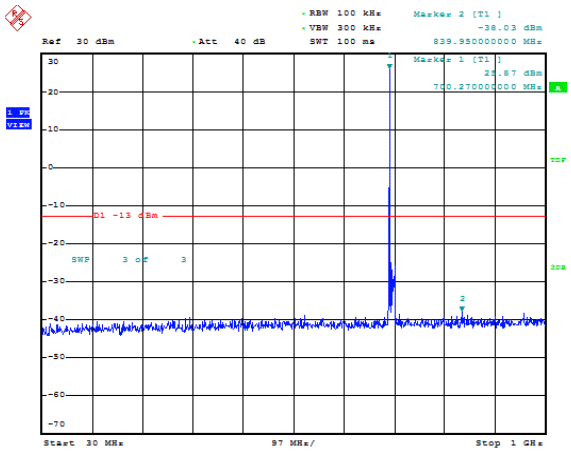
Date: 28.OCT.2020 20:43:54

Band12-10MHz-QPSK-23130-1RB#0-Range2:1000~10000MHz



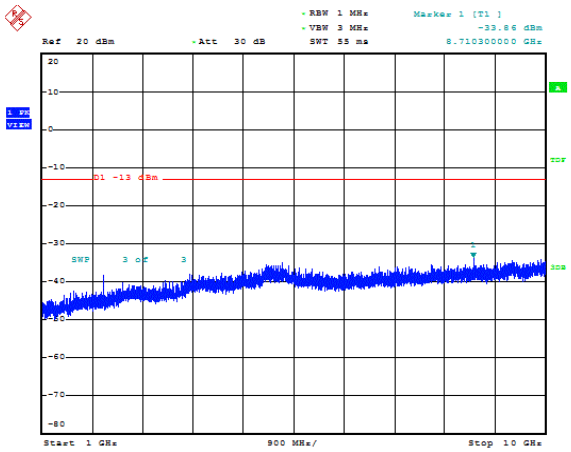
Date: 28.OCT.2020 20:44:02

Band12-10MHz-16QAM-23060-1RB#0-Range1:30~1000MHz



Date: 28.OCT.2020 20:42:57

Band12-10MHz-16QAM-23060-1RB#0-Range2:1000~10000MHz



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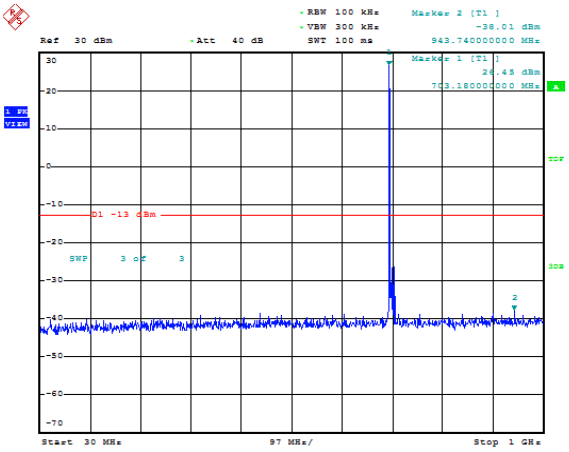
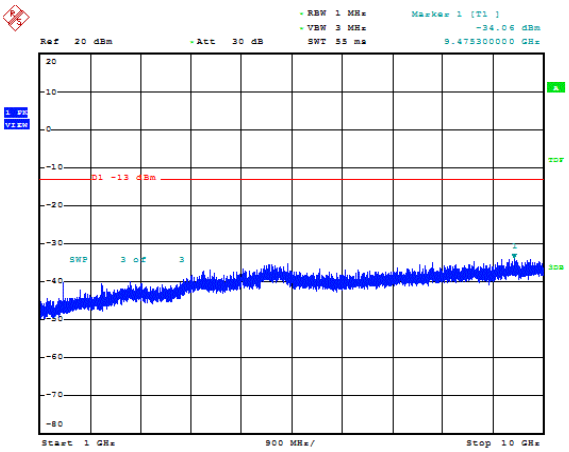
Band12-10MHz-16QAM-23095-1RB#0-Range1:30~1000MHz



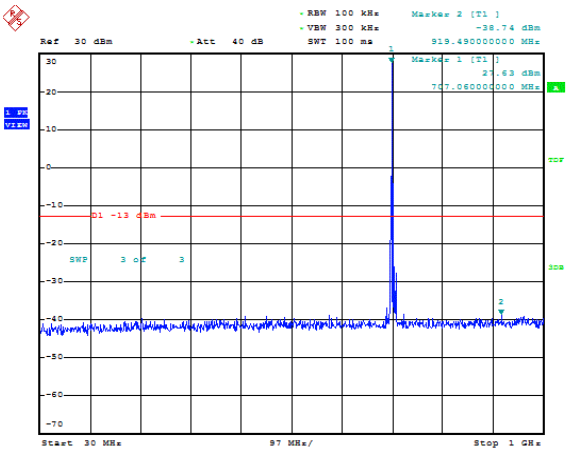
Date: 28.OCT.2020 20:43:34

Band12-10MHz-16QAM-23095-1RB#0-Range2:1000~10000MHz



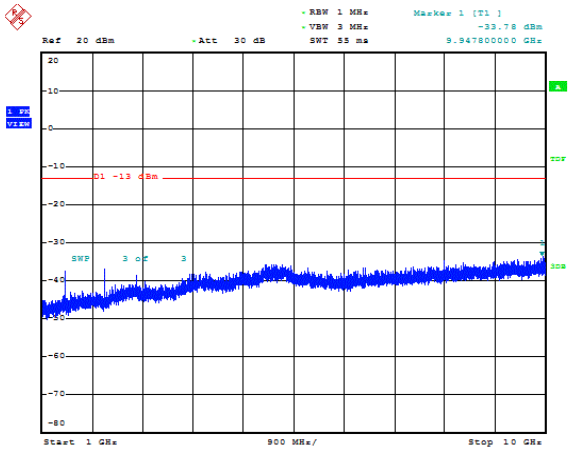
Date: 28.OCT.2020 20:43:42

Band12-10MHz-16QAM-23130-1RB#0-Range1:30~1000MHz



Date: 28.OCT.2020 20:44:11

Band12-10MHz-16QAM-23130-1RB#0-Range2:1000~10000MHz



Date: 28.OCT.2020 20:44:19

1.6. Appendix F: Frequency Stability

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	VL	NT	-2.46	-0.003516	±2.5	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	VN	NT	-2.42	-0.003459	±2.5	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	VH	NT	-2.27	-0.003244	±2.5	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	VL	NT	-1.80	-0.002544	±2.5	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	VN	NT	1.67	0.002360	±2.5	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	VH	NT	0.97	0.001371	±2.5	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	VL	NT	2.62	0.003663	±2.5	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	VN	NT	-3.02	-0.004222	±2.5	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	VH	NT	-3.33	-0.004655	±2.5	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	VL	NT	-1.73	-0.002472	±2.5	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	VN	NT	-1.30	-0.001858	±2.5	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	VH	NT	-1.17	-0.001672	±2.5	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	VL	NT	-3.12	-0.004410	±2.5	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	VN	NT	-2.36	-0.003336	±2.5	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	VH	NT	1.29	0.001823	±2.5	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	VL	NT	-1.75	-0.002447	±2.5	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	VN	NT	-2.65	-0.003705	±2.5	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	VH	NT	-2.56	-0.003579	±2.5	PASS
Band12	3MHz	QPSK	23025	15RB#0	VL	NT	-3.62	-0.005168	±2.5	PASS
Band12	3MHz	QPSK	23025	15RB#0	VN	NT	-3.76	-0.005368	±2.5	PASS
Band12	3MHz	QPSK	23025	15RB#0	VH	NT	-2.75	-0.003926	±2.5	PASS
Band12	3MHz	QPSK	23095	15RB#0	VL	NT	-2.07	-0.002926	±2.5	PASS
Band12	3MHz	QPSK	23095	15RB#0	VN	NT	1.70	0.002403	±2.5	PASS
Band12	3MHz	QPSK	23095	15RB#0	VH	NT	-1.33	-0.001880	±2.5	PASS
Band12	3MHz	QPSK	23165	15RB#0	VL	NT	-1.87	-0.002617	±2.5	PASS
Band12	3MHz	QPSK	23165	15RB#0	VN	NT	-2.15	-0.003009	±2.5	PASS
Band12	3MHz	QPSK	23165	15RB#0	VH	NT	1.19	0.001666	±2.5	PASS
Band12	3MHz	16QAM	23025	15RB#0	VL	NT	-3.62	-0.005168	±2.5	PASS
Band12	3MHz	16QAM	23025	15RB#0	VN	NT	-4.01	-0.005724	±2.5	PASS
Band12	3MHz	16QAM	23025	15RB#0	VH	NT	-2.32	-0.003312	±2.5	PASS
Band12	3MHz	16QAM	23095	15RB#0	VL	NT	-1.60	-0.002261	±2.5	PASS
Band12	3MHz	16QAM	23095	15RB#0	VN	NT	2.15	0.003039	±2.5	PASS

Band12	3MHz	16QAM	23095	15RB#0	VH	NT	1.30	0.001837	±2.5	PASS
Band12	3MHz	16QAM	23165	15RB#0	VL	NT	-3.45	-0.004829	±2.5	PASS
Band12	3MHz	16QAM	23165	15RB#0	VN	NT	-3.36	-0.004703	±2.5	PASS
Band12	3MHz	16QAM	23165	15RB#0	VH	NT	2.47	0.003457	±2.5	PASS
Band12	5MHz	QPSK	23035	25RB#0	VL	NT	2.05	0.002922	±2.5	PASS
Band12	5MHz	QPSK	23035	25RB#0	VN	NT	1.80	0.002566	±2.5	PASS
Band12	5MHz	QPSK	23035	25RB#0	VH	NT	-1.56	-0.002224	±2.5	PASS
Band12	5MHz	QPSK	23095	25RB#0	VL	NT	-1.80	-0.002544	±2.5	PASS
Band12	5MHz	QPSK	23095	25RB#0	VN	NT	-3.83	-0.005413	±2.5	PASS
Band12	5MHz	QPSK	23095	25RB#0	VH	NT	-1.33	-0.001880	±2.5	PASS
Band12	5MHz	QPSK	23155	25RB#0	VL	NT	-3.72	-0.005214	±2.5	PASS
Band12	5MHz	QPSK	23155	25RB#0	VN	NT	-1.52	-0.002130	±2.5	PASS
Band12	5MHz	QPSK	23155	25RB#0	VH	NT	-2.39	-0.003350	±2.5	PASS
Band12	5MHz	16QAM	23035	25RB#0	VL	NT	-1.62	-0.002309	±2.5	PASS
Band12	5MHz	16QAM	23035	25RB#0	VN	NT	-2.68	-0.003820	±2.5	PASS
Band12	5MHz	16QAM	23035	25RB#0	VH	NT	-2.55	-0.003635	±2.5	PASS
Band12	5MHz	16QAM	23095	25RB#0	VL	NT	-3.32	-0.004693	±2.5	PASS
Band12	5MHz	16QAM	23095	25RB#0	VN	NT	-2.07	-0.002926	±2.5	PASS
Band12	5MHz	16QAM	23095	25RB#0	VH	NT	1.26	0.001781	±2.5	PASS
Band12	5MHz	16QAM	23155	25RB#0	VL	NT	-2.50	-0.003504	±2.5	PASS
Band12	5MHz	16QAM	23155	25RB#0	VN	NT	-2.88	-0.004036	±2.5	PASS
Band12	5MHz	16QAM	23155	25RB#0	VH	NT	-1.43	-0.002004	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	VL	NT	-1.87	-0.002656	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	VN	NT	-2.47	-0.003509	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	VH	NT	-2.49	-0.003537	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	VL	NT	-1.54	-0.002177	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	VN	NT	2.32	0.003279	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	VH	NT	-3.32	-0.004693	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	VL	NT	-3.46	-0.004866	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	VN	NT	1.53	0.002152	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	VH	NT	-2.65	-0.003727	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	VL	NT	-2.82	-0.004006	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	VN	NT	-2.06	-0.002926	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	VH	NT	1.93	0.002741	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	VL	NT	-1.42	-0.002007	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	VN	NT	-2.22	-0.003138	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	VH	NT	-1.95	-0.002756	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	VL	NT	-2.49	-0.003502	±2.5	PASS

Band12	10MHz	16QAM	23130	50RB#0	VN	NT	-3.10	-0.004360	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	VH	NT	-3.29	-0.004627	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	NV	-10	-2.20	-0.003144	±2.5	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	NV	0	-3.52	-0.005031	±2.5	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	NV	10	-2.52	-0.003602	±2.5	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	NV	20	-2.75	-0.003930	±2.5	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	NV	30	-2.66	-0.003802	±2.5	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	NV	40	-3.92	-0.005602	±2.5	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	NV	50	2.26	0.003230	±2.5	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	NV	-10	-1.72	-0.002431	±2.5	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	NV	0	-1.70	-0.002403	±2.5	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	NV	10	-2.47	-0.003491	±2.5	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	NV	20	-2.69	-0.003802	±2.5	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	NV	30	-2.83	-0.004000	±2.5	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	NV	40	-2.07	-0.002926	±2.5	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	NV	50	-3.73	-0.005272	±2.5	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	NV	-10	-2.86	-0.003998	±2.5	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	NV	0	-2.93	-0.004096	±2.5	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	NV	10	1.83	0.002558	±2.5	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	NV	20	-2.22	-0.003104	±2.5	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	NV	30	0.83	0.001160	±2.5	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	NV	40	1.66	0.002321	±2.5	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	NV	50	0.94	0.001314	±2.5	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	NV	-10	-3.15	-0.004502	±2.5	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	NV	0	1.82	0.002601	±2.5	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	NV	10	-0.87	-0.001243	±2.5	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	NV	20	0.90	0.001286	±2.5	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	NV	30	-2.92	-0.004173	±2.5	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	NV	40	-1.30	-0.001858	±2.5	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	NV	50	-2.26	-0.003230	±2.5	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	NV	-10	-2.40	-0.003392	±2.5	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	NV	0	-1.83	-0.002587	±2.5	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	NV	10	-2.78	-0.003929	±2.5	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	NV	20	-2.80	-0.003958	±2.5	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	NV	30	1.29	0.001823	±2.5	PASS

Band12	1.4MHz	16QAM	23095	6RB#0	NV	40	-2.52	-0.003562	±2.5	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	NV	50	-2.50	-0.003534	±2.5	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	NV	-10	-1.27	-0.001775	±2.5	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	NV	0	-2.69	-0.003761	±2.5	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	NV	10	-2.96	-0.004138	±2.5	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	NV	20	-2.57	-0.003593	±2.5	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	NV	30	-2.56	-0.003579	±2.5	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	NV	40	-1.44	-0.002013	±2.5	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	NV	50	-1.86	-0.002600	±2.5	PASS
Band12	3MHz	QPSK	23025	15RB#0	NV	-10	-3.85	-0.005496	±2.5	PASS
Band12	3MHz	QPSK	23025	15RB#0	NV	0	-3.93	-0.005610	±2.5	PASS
Band12	3MHz	QPSK	23025	15RB#0	NV	10	-2.66	-0.003797	±2.5	PASS
Band12	3MHz	QPSK	23025	15RB#0	NV	20	-2.16	-0.003084	±2.5	PASS
Band12	3MHz	QPSK	23025	15RB#0	NV	30	-2.96	-0.004226	±2.5	PASS
Band12	3MHz	QPSK	23025	15RB#0	NV	40	-3.15	-0.004497	±2.5	PASS
Band12	3MHz	QPSK	23025	15RB#0	NV	50	-3.23	-0.004611	±2.5	PASS
Band12	3MHz	QPSK	23095	15RB#0	NV	-10	1.97	0.002784	±2.5	PASS
Band12	3MHz	QPSK	23095	15RB#0	NV	0	-0.67	-0.000947	±2.5	PASS
Band12	3MHz	QPSK	23095	15RB#0	NV	10	1.33	0.001880	±2.5	PASS
Band12	3MHz	QPSK	23095	15RB#0	NV	20	-2.23	-0.003152	±2.5	PASS
Band12	3MHz	QPSK	23095	15RB#0	NV	30	-2.30	-0.003251	±2.5	PASS
Band12	3MHz	QPSK	23095	15RB#0	NV	40	-1.47	-0.002078	±2.5	PASS
Band12	3MHz	QPSK	23095	15RB#0	NV	50	-2.60	-0.003675	±2.5	PASS
Band12	3MHz	QPSK	23165	15RB#0	NV	-10	-3.25	-0.004549	±2.5	PASS
Band12	3MHz	QPSK	23165	15RB#0	NV	0	1.26	0.001763	±2.5	PASS
Band12	3MHz	QPSK	23165	15RB#0	NV	10	-2.00	-0.002799	±2.5	PASS
Band12	3MHz	QPSK	23165	15RB#0	NV	20	2.36	0.003303	±2.5	PASS
Band12	3MHz	QPSK	23165	15RB#0	NV	30	-2.36	-0.003303	±2.5	PASS
Band12	3MHz	QPSK	23165	15RB#0	NV	40	-1.65	-0.002309	±2.5	PASS
Band12	3MHz	QPSK	23165	15RB#0	NV	50	-2.92	-0.004087	±2.5	PASS
Band12	3MHz	16QAM	23025	15RB#0	NV	-10	-1.54	-0.002198	±2.5	PASS
Band12	3MHz	16QAM	23025	15RB#0	NV	0	-1.77	-0.002527	±2.5	PASS
Band12	3MHz	16QAM	23025	15RB#0	NV	10	-2.20	-0.003141	±2.5	PASS
Band12	3MHz	16QAM	23025	15RB#0	NV	20	-4.59	-0.006552	±2.5	PASS
Band12	3MHz	16QAM	23025	15RB#0	NV	30	-1.67	-0.002384	±2.5	PASS
Band12	3MHz	16QAM	23025	15RB#0	NV	40	-3.33	-0.004754	±2.5	PASS
Band12	3MHz	16QAM	23025	15RB#0	NV	50	-1.66	-0.002370	±2.5	PASS
Band12	3MHz	16QAM	23095	15RB#0	NV	-10	-2.07	-0.002926	±2.5	PASS

Band12	3MHz	16QAM	23095	15RB#0	NV	0	2.70	0.003816	±2.5	PASS
Band12	3MHz	16QAM	23095	15RB#0	NV	10	-2.95	-0.004170	±2.5	PASS
Band12	3MHz	16QAM	23095	15RB#0	NV	20	1.42	0.002007	±2.5	PASS
Band12	3MHz	16QAM	23095	15RB#0	NV	30	-1.49	-0.002106	±2.5	PASS
Band12	3MHz	16QAM	23095	15RB#0	NV	40	1.27	0.001795	±2.5	PASS
Band12	3MHz	16QAM	23095	15RB#0	NV	50	1.57	0.002219	±2.5	PASS
Band12	3MHz	16QAM	23165	15RB#0	NV	-10	1.70	0.002379	±2.5	PASS
Band12	3MHz	16QAM	23165	15RB#0	NV	0	1.75	0.002449	±2.5	PASS
Band12	3MHz	16QAM	23165	15RB#0	NV	10	2.27	0.003177	±2.5	PASS
Band12	3MHz	16QAM	23165	15RB#0	NV	20	-2.93	-0.004101	±2.5	PASS
Band12	3MHz	16QAM	23165	15RB#0	NV	30	-2.23	-0.003121	±2.5	PASS
Band12	3MHz	16QAM	23165	15RB#0	NV	40	-2.12	-0.002967	±2.5	PASS
Band12	3MHz	16QAM	23165	15RB#0	NV	50	1.67	0.002337	±2.5	PASS
Band12	5MHz	QPSK	23035	25RB#0	NV	-10	2.10	0.002994	±2.5	PASS
Band12	5MHz	QPSK	23035	25RB#0	NV	0	1.54	0.002195	±2.5	PASS
Band12	5MHz	QPSK	23035	25RB#0	NV	10	1.66	0.002366	±2.5	PASS
Band12	5MHz	QPSK	23035	25RB#0	NV	20	-2.19	-0.003122	±2.5	PASS
Band12	5MHz	QPSK	23035	25RB#0	NV	30	-2.15	-0.003065	±2.5	PASS
Band12	5MHz	QPSK	23035	25RB#0	NV	40	-2.72	-0.003877	±2.5	PASS
Band12	5MHz	QPSK	23035	25RB#0	NV	50	-3.02	-0.004305	±2.5	PASS
Band12	5MHz	QPSK	23095	25RB#0	NV	-10	-2.56	-0.003618	±2.5	PASS
Band12	5MHz	QPSK	23095	25RB#0	NV	0	-2.37	-0.003350	±2.5	PASS
Band12	5MHz	QPSK	23095	25RB#0	NV	10	-3.63	-0.005131	±2.5	PASS
Band12	5MHz	QPSK	23095	25RB#0	NV	20	-3.46	-0.004890	±2.5	PASS
Band12	5MHz	QPSK	23095	25RB#0	NV	30	-1.19	-0.001682	±2.5	PASS
Band12	5MHz	QPSK	23095	25RB#0	NV	40	-2.65	-0.003746	±2.5	PASS
Band12	5MHz	QPSK	23095	25RB#0	NV	50	-1.95	-0.002756	±2.5	PASS
Band12	5MHz	QPSK	23155	25RB#0	NV	-10	-2.39	-0.003350	±2.5	PASS
Band12	5MHz	QPSK	23155	25RB#0	NV	0	-3.83	-0.005368	±2.5	PASS
Band12	5MHz	QPSK	23155	25RB#0	NV	10	-1.75	-0.002453	±2.5	PASS
Band12	5MHz	QPSK	23155	25RB#0	NV	20	-2.63	-0.003686	±2.5	PASS
Band12	5MHz	QPSK	23155	25RB#0	NV	30	-3.32	-0.004653	±2.5	PASS
Band12	5MHz	QPSK	23155	25RB#0	NV	40	-1.04	-0.001458	±2.5	PASS
Band12	5MHz	QPSK	23155	25RB#0	NV	50	-1.46	-0.002046	±2.5	PASS
Band12	5MHz	16QAM	23035	25RB#0	NV	-10	-1.93	-0.002751	±2.5	PASS
Band12	5MHz	16QAM	23035	25RB#0	NV	0	-1.67	-0.002381	±2.5	PASS
Band12	5MHz	16QAM	23035	25RB#0	NV	10	1.95	0.002780	±2.5	PASS
Band12	5MHz	16QAM	23035	25RB#0	NV	20	2.40	0.003421	±2.5	PASS

Band12	5MHz	16QAM	23035	25RB#0	NV	30	-1.97	-0.002808	±2.5	PASS
Band12	5MHz	16QAM	23035	25RB#0	NV	40	1.52	0.002167	±2.5	PASS
Band12	5MHz	16QAM	23035	25RB#0	NV	50	-1.77	-0.002523	±2.5	PASS
Band12	5MHz	16QAM	23095	25RB#0	NV	-10	-2.23	-0.003152	±2.5	PASS
Band12	5MHz	16QAM	23095	25RB#0	NV	0	1.27	0.001795	±2.5	PASS
Band12	5MHz	16QAM	23095	25RB#0	NV	10	-2.80	-0.003958	±2.5	PASS
Band12	5MHz	16QAM	23095	25RB#0	NV	20	-2.23	-0.003152	±2.5	PASS
Band12	5MHz	16QAM	23095	25RB#0	NV	30	-0.92	-0.001300	±2.5	PASS
Band12	5MHz	16QAM	23095	25RB#0	NV	40	-1.47	-0.002078	±2.5	PASS
Band12	5MHz	16QAM	23095	25RB#0	NV	50	1.06	0.001498	±2.5	PASS
Band12	5MHz	16QAM	23155	25RB#0	NV	-10	-2.25	-0.003153	±2.5	PASS
Band12	5MHz	16QAM	23155	25RB#0	NV	0	-2.02	-0.002831	±2.5	PASS
Band12	5MHz	16QAM	23155	25RB#0	NV	10	-1.30	-0.001822	±2.5	PASS
Band12	5MHz	16QAM	23155	25RB#0	NV	20	-1.33	-0.001864	±2.5	PASS
Band12	5MHz	16QAM	23155	25RB#0	NV	30	-1.09	-0.001528	±2.5	PASS
Band12	5MHz	16QAM	23155	25RB#0	NV	40	-1.20	-0.001682	±2.5	PASS
Band12	5MHz	16QAM	23155	25RB#0	NV	50	1.12	0.001570	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	-10	-1.50	-0.002131	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	0	-2.68	-0.003807	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	10	-2.05	-0.002912	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	20	-1.82	-0.002585	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	30	-2.98	-0.004233	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	40	1.93	0.002741	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	50	-3.12	-0.004432	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-10	-1.72	-0.002431	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	0	-2.35	-0.003322	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	10	-4.09	-0.005781	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	20	-2.42	-0.003420	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	30	-2.93	-0.004141	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	40	-2.45	-0.003463	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	50	-3.32	-0.004693	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	-10	-2.22	-0.003122	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	0	-3.99	-0.005612	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	10	-3.68	-0.005176	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	20	-1.60	-0.002250	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	30	-1.85	-0.002602	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	40	-2.25	-0.003165	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	50	-1.87	-0.002630	±2.5	PASS

Band12	10MHz	16QAM	23060	50RB#0	NV	-10	2.00	0.002841	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	0	2.57	0.003651	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	10	3.10	0.004403	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	20	3.52	0.005000	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	30	2.52	0.003580	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	40	2.29	0.003253	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	50	2.49	0.003537	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	-10	1.24	0.001753	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	0	-1.69	-0.002389	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	10	-1.60	-0.002261	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	20	-2.22	-0.003138	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	30	-1.90	-0.002686	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	40	-2.86	-0.004042	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	50	-2.10	-0.002968	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	-10	-3.88	-0.005457	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	0	-3.50	-0.004923	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	10	-3.33	-0.004684	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	20	-3.29	-0.004627	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	30	-3.15	-0.004430	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	40	-1.66	-0.002335	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	50	-4.15	-0.005837	±2.5	PASS

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