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Appendix for LTE Band 17

Applicant: AIR-U Co., Ltd

**Address: Yamaki 2nd BLDG, 8F, 3-4-2, Nishishinbashi, Minato-ku,
Tokyo, Japan**

Product Name: 4G Wireless Data Terminal

Model: CAW20A101

FCC ID: 2ATHM-CAW20A101

TABLE OF CONTENTS

1	Summary of Test Results Data and Graph	3
1.1.	Appendix A: Conducted Power Output Data	3
1.2.	Appendix B: Peak-to-Average Ratio(CCDF)	6
1.3.	Appendix C: 26dB Bandwidth and Occupied Bandwidth	16
1.4.	Appendix D: Band Edge	22
1.5.	Appendix E: Conducted Spurious Emission	31
1.6.	Appendix F: Frequency Stability	41

1 Summary of Test Results Data and Graph

1.1. Appendix A: Conducted Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	23.11	PASS
Band17	5MHz	QPSK	23755	1RB#12	23.30	PASS
Band17	5MHz	QPSK	23755	1RB#24	23.00	PASS
Band17	5MHz	QPSK	23755	12RB#0	22.12	PASS
Band17	5MHz	QPSK	23755	12RB#6	22.11	PASS
Band17	5MHz	QPSK	23755	12RB#13	22.10	PASS
Band17	5MHz	QPSK	23755	25RB#0	22.13	PASS
Band17	5MHz	QPSK	23790	1RB#0	23.31	PASS
Band17	5MHz	QPSK	23790	1RB#12	23.06	PASS
Band17	5MHz	QPSK	23790	1RB#24	22.90	PASS
Band17	5MHz	QPSK	23790	12RB#0	22.10	PASS
Band17	5MHz	QPSK	23790	12RB#6	22.11	PASS
Band17	5MHz	QPSK	23790	12RB#13	22.16	PASS
Band17	5MHz	QPSK	23790	25RB#0	22.11	PASS
Band17	5MHz	QPSK	23825	1RB#0	23.07	PASS
Band17	5MHz	QPSK	23825	1RB#12	23.47	PASS
Band17	5MHz	QPSK	23825	1RB#24	22.90	PASS
Band17	5MHz	QPSK	23825	12RB#0	22.16	PASS
Band17	5MHz	QPSK	23825	12RB#6	22.15	PASS
Band17	5MHz	QPSK	23825	12RB#13	22.16	PASS
Band17	5MHz	QPSK	23825	25RB#0	22.08	PASS
Band17	5MHz	16QAM	23755	1RB#0	22.33	PASS
Band17	5MHz	16QAM	23755	1RB#12	22.34	PASS
Band17	5MHz	16QAM	23755	1RB#24	21.95	PASS
Band17	5MHz	16QAM	23755	12RB#0	22.11	PASS
Band17	5MHz	16QAM	23755	12RB#6	22.10	PASS
Band17	5MHz	16QAM	23755	12RB#13	22.19	PASS
Band17	5MHz	16QAM	23755	25RB#0	20.98	PASS
Band17	5MHz	16QAM	23790	1RB#0	22.10	PASS
Band17	5MHz	16QAM	23790	1RB#12	22.03	PASS
Band17	5MHz	16QAM	23790	1RB#24	22.20	PASS
Band17	5MHz	16QAM	23790	12RB#0	22.11	PASS
Band17	5MHz	16QAM	23790	12RB#6	22.11	PASS

Band17	5MHz	16QAM	23790	12RB#13	22.15	PASS
Band17	5MHz	16QAM	23790	25RB#0	21.14	PASS
Band17	5MHz	16QAM	23825	1RB#0	22.10	PASS
Band17	5MHz	16QAM	23825	1RB#12	22.07	PASS
Band17	5MHz	16QAM	23825	1RB#24	21.82	PASS
Band17	5MHz	16QAM	23825	12RB#0	22.15	PASS
Band17	5MHz	16QAM	23825	12RB#6	22.15	PASS
Band17	5MHz	16QAM	23825	12RB#13	22.16	PASS
Band17	5MHz	16QAM	23825	25RB#0	21.19	PASS
Band17	10MHz	QPSK	23780	1RB#0	23.00	PASS
Band17	10MHz	QPSK	23780	1RB#24	23.20	PASS
Band17	10MHz	QPSK	23780	1RB#49	23.10	PASS
Band17	10MHz	QPSK	23780	25RB#0	22.24	PASS
Band17	10MHz	QPSK	23780	25RB#12	22.23	PASS
Band17	10MHz	QPSK	23780	25RB#25	22.18	PASS
Band17	10MHz	QPSK	23780	50RB#0	22.17	PASS
Band17	10MHz	QPSK	23790	1RB#0	23.32	PASS
Band17	10MHz	QPSK	23790	1RB#24	23.45	PASS
Band17	10MHz	QPSK	23790	1RB#49	22.94	PASS
Band17	10MHz	QPSK	23790	25RB#0	22.29	PASS
Band17	10MHz	QPSK	23790	25RB#12	22.20	PASS
Band17	10MHz	QPSK	23790	25RB#25	22.11	PASS
Band17	10MHz	QPSK	23790	50RB#0	22.19	PASS
Band17	10MHz	QPSK	23800	1RB#0	23.04	PASS
Band17	10MHz	QPSK	23800	1RB#24	23.42	PASS
Band17	10MHz	QPSK	23800	1RB#49	22.93	PASS
Band17	10MHz	QPSK	23800	25RB#0	22.16	PASS
Band17	10MHz	QPSK	23800	25RB#12	22.27	PASS
Band17	10MHz	QPSK	23800	25RB#25	22.17	PASS
Band17	10MHz	QPSK	23800	50RB#0	22.15	PASS
Band17	10MHz	16QAM	23780	1RB#0	22.03	PASS
Band17	10MHz	16QAM	23780	1RB#24	22.03	PASS
Band17	10MHz	16QAM	23780	1RB#49	22.21	PASS
Band17	10MHz	16QAM	23780	25RB#0	22.24	PASS
Band17	10MHz	16QAM	23780	25RB#12	22.23	PASS
Band17	10MHz	16QAM	23780	25RB#25	22.18	PASS
Band17	10MHz	16QAM	23780	50RB#0	21.18	PASS
Band17	10MHz	16QAM	23790	1RB#0	22.58	PASS

Band17	10MHz	16QAM	23790	1RB#24	22.85	PASS
Band17	10MHz	16QAM	23790	1RB#49	22.44	PASS
Band17	10MHz	16QAM	23790	25RB#0	22.19	PASS
Band17	10MHz	16QAM	23790	25RB#12	23.20	PASS
Band17	10MHz	16QAM	23790	25RB#25	22.10	PASS
Band17	10MHz	16QAM	23790	50RB#0	21.19	PASS
Band17	10MHz	16QAM	23800	1RB#0	21.98	PASS
Band17	10MHz	16QAM	23800	1RB#24	22.42	PASS
Band17	10MHz	16QAM	23800	1RB#49	22.00	PASS
Band17	10MHz	16QAM	23800	25RB#0	22.27	PASS
Band17	10MHz	16QAM	23800	25RB#12	22.27	PASS
Band17	10MHz	16QAM	23800	25RB#25	22.16	PASS
Band17	10MHz	16QAM	23800	50RB#0	21.12	PASS

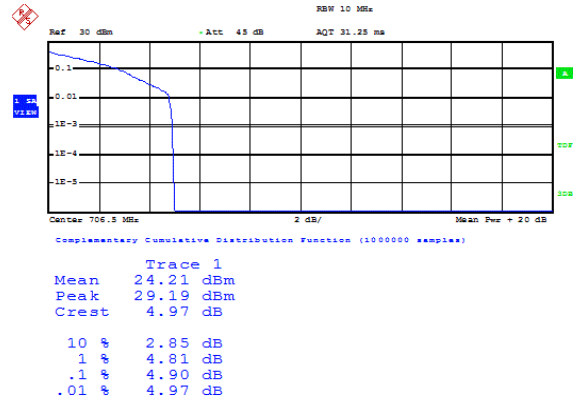
1.2. Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	4.90	13	PASS
Band17	5MHz	QPSK	23755	25RB#0	5.54	13	PASS
Band17	5MHz	QPSK	23790	1RB#0	4.81	13	PASS
Band17	5MHz	QPSK	23790	25RB#0	5.51	13	PASS
Band17	5MHz	QPSK	23825	1RB#0	4.90	13	PASS
Band17	5MHz	QPSK	23825	25RB#0	5.51	13	PASS
Band17	5MHz	16QAM	23755	1RB#0	5.93	13	PASS
Band17	5MHz	16QAM	23755	25RB#0	6.41	13	PASS
Band17	5MHz	16QAM	23790	1RB#0	5.74	13	PASS
Band17	5MHz	16QAM	23790	25RB#0	6.47	13	PASS
Band17	5MHz	16QAM	23825	1RB#0	5.90	13	PASS
Band17	5MHz	16QAM	23825	25RB#0	6.38	13	PASS
Band17	10MHz	QPSK	23780	1RB#0	4.81	13	PASS
Band17	10MHz	QPSK	23780	50RB#0	5.38	13	PASS
Band17	10MHz	QPSK	23790	1RB#0	4.78	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	5.32	13	PASS
Band17	10MHz	QPSK	23800	1RB#0	4.68	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	5.32	13	PASS
Band17	10MHz	16QAM	23780	1RB#0	5.74	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	6.41	13	PASS
Band17	10MHz	16QAM	23790	1RB#0	5.83	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	6.38	13	PASS
Band17	10MHz	16QAM	23800	1RB#0	5.54	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	6.38	13	PASS

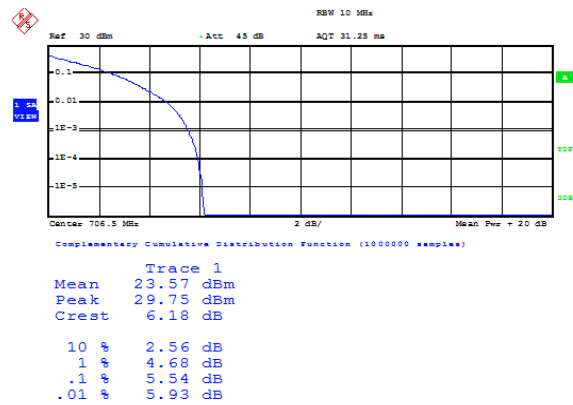
Test Graphs

Band17-5MHz-QPSK-23755-1RB#0



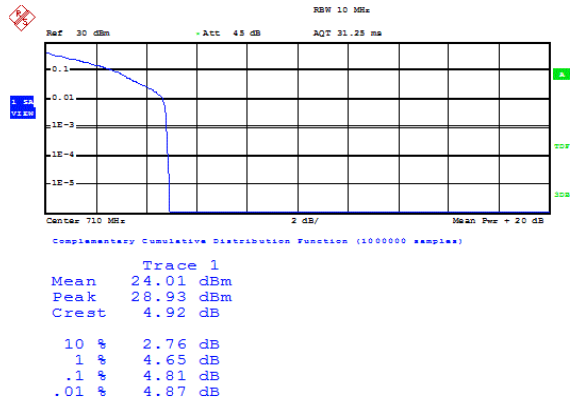
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Band17-5MHz-QPSK-23755-25RB#0



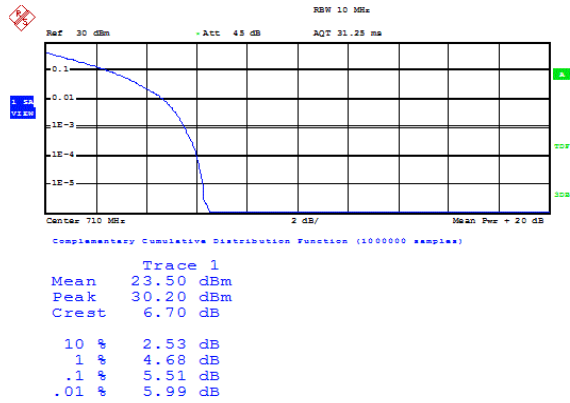
Date: 11.NOV.2020 10:39:22

Band17-5MHz-QPSK-23790-1RB#0



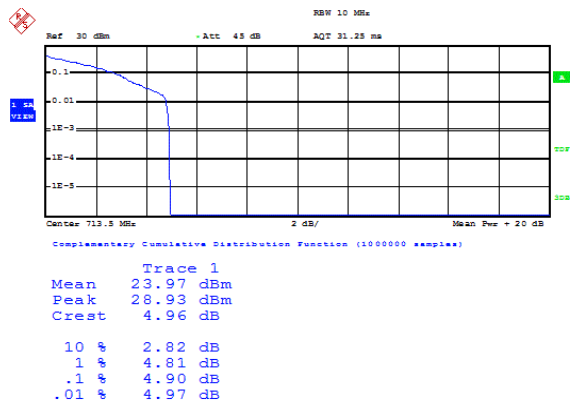
Date: 11.NOV.2020 10:39:42

Band17-5MHz-QPSK-23790-25RB#0



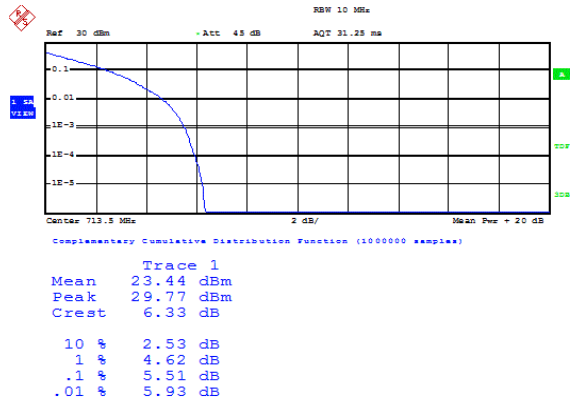
Date: 11.NOV.2020 10:39:59

Band17-5MHz-QPSK-23825-1RB#0



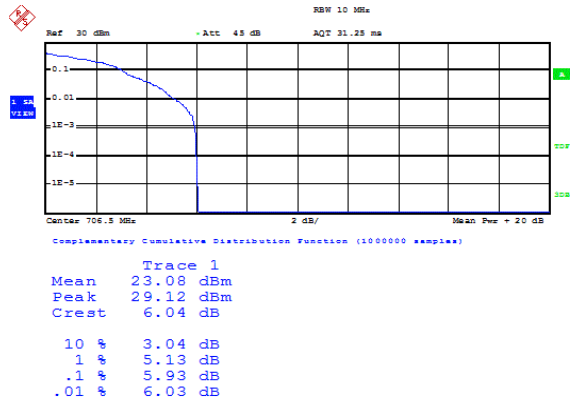
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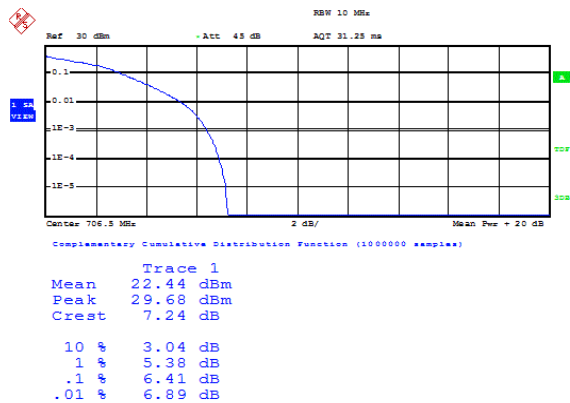
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Band17-5MHz-16QAM-23755-1RB#0



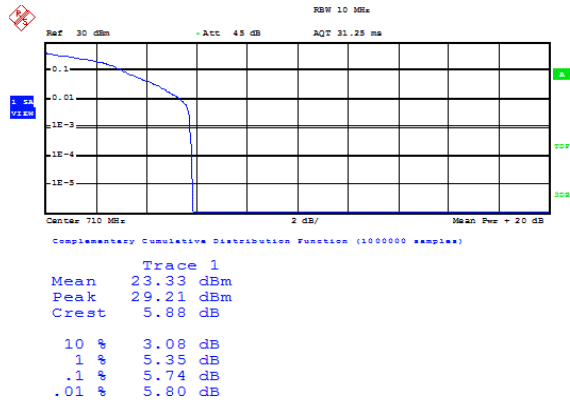
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Band17-5MHz-16QAM-23755-25RB#0



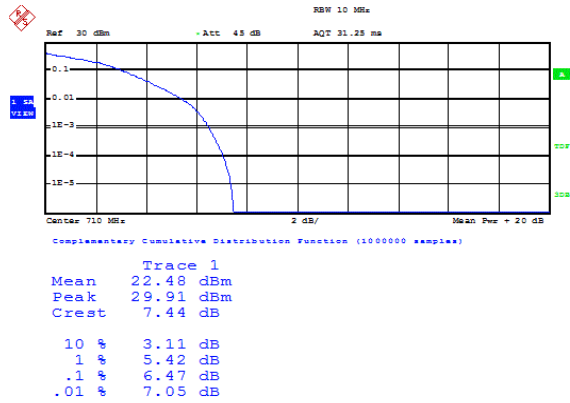
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Band17-5MHz-16QAM-23790-1RB#0



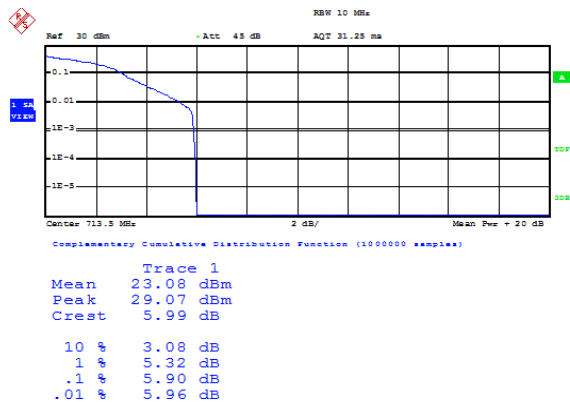
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Band17-5MHz-16QAM-23790-25RB#0



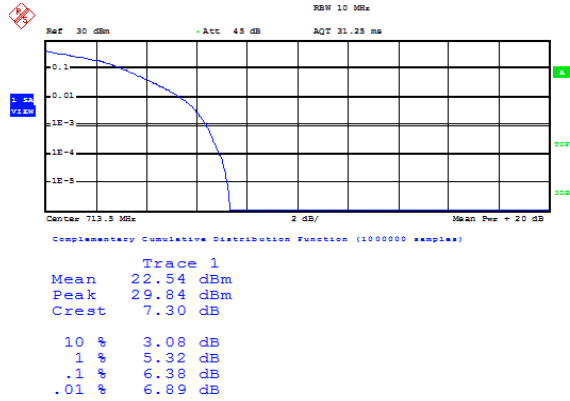
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Band17-5MHz-16QAM-23825-1RB#0



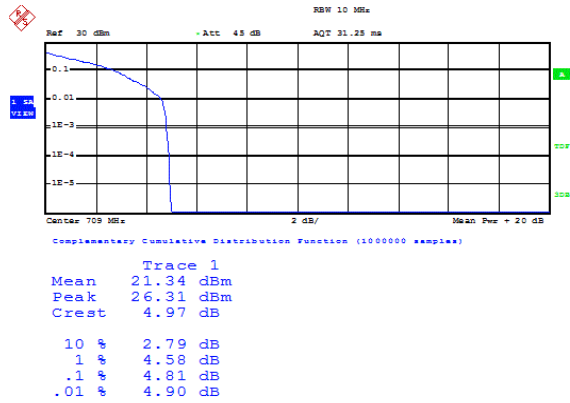
Date: 11.NOV.2020 10:40:28

Band17-5MHz-16QAM-23825-25RB#0



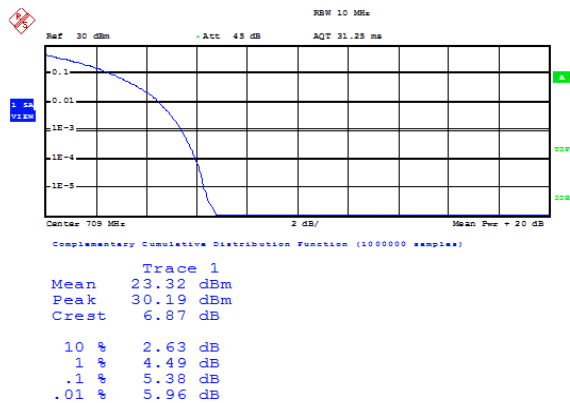
Date: 11.NOV.2020 10:40:46

Band17-10MHz-QPSK-23780-1RB#0



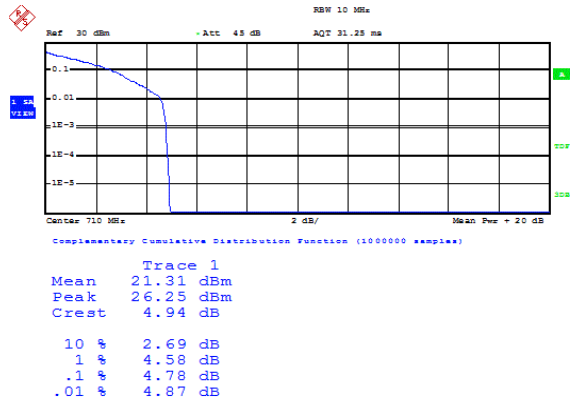
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Band17-10MHz-QPSK-23780-50RB#0



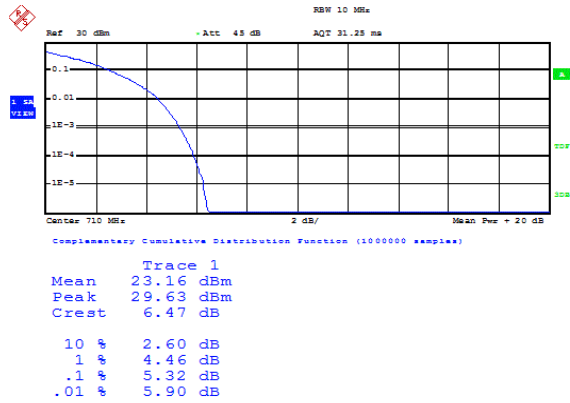
Date: 19.NOV.2020 16:32:07

Band17-10MHz-QPSK-23790-1RB#0



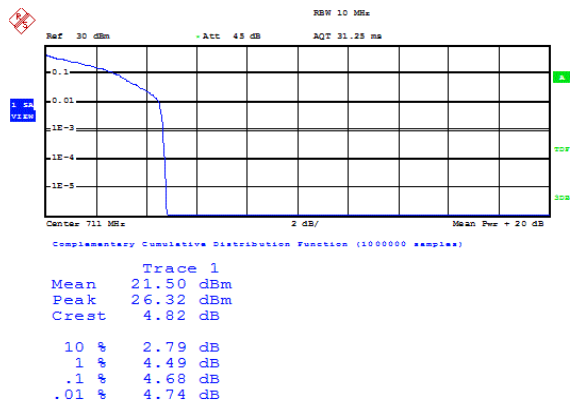
Date: 19.NOV.2020 16:32:27

Band17-10MHz-QPSK-23790-50RB#0



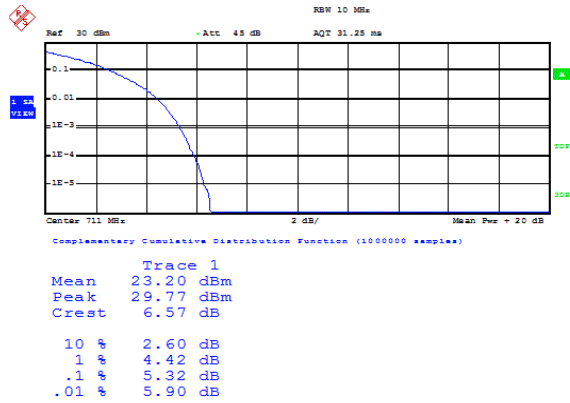
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Band17-10MHz-QPSK-23800-1RB#0



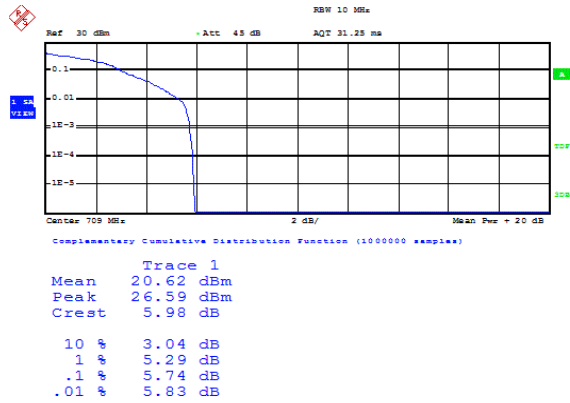
Date: 19.NOV.2020 16:33:05

Band17-10MHz-QPSK-23800-50RB#0



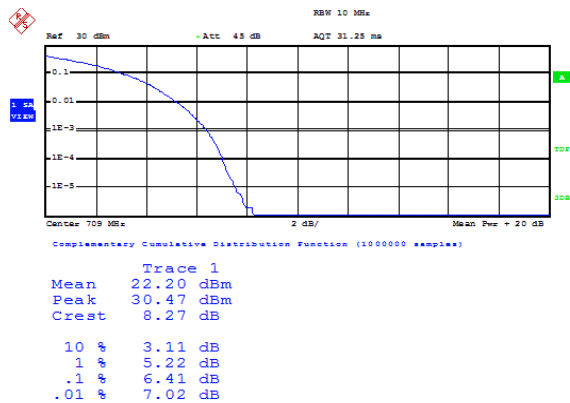
Date: 19.NOV.2020 16:33:22

Band17-10MHz-16QAM-23780-1RB#0



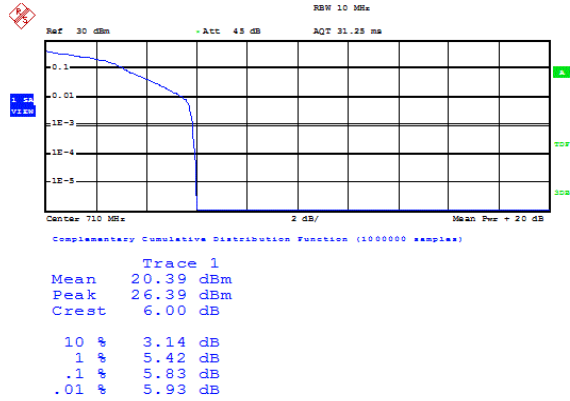
Date: 19.NOV.2020 16:31:58

Band17-10MHz-16QAM-23780-50RB#0



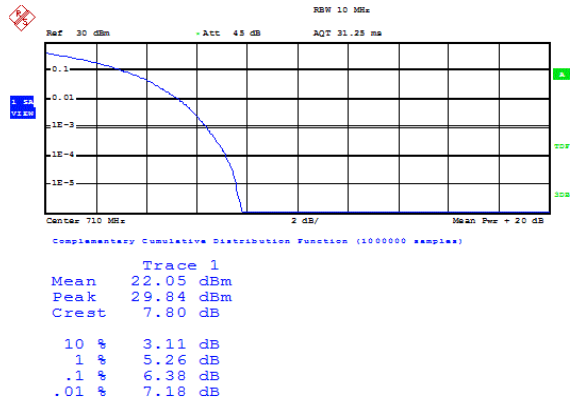
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Band17-10MHz-16QAM-23790-1RB#0



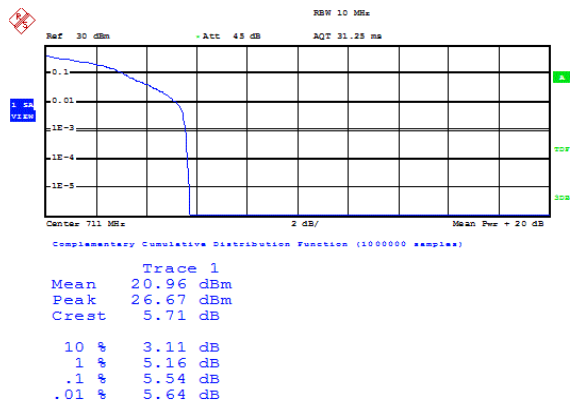
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Band17-10MHz-16QAM-23790-50RB#0



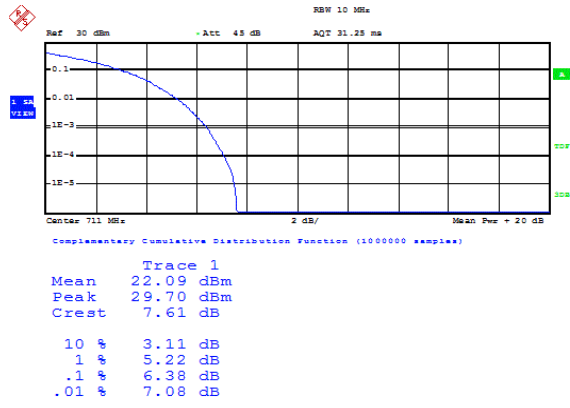
Date: 19.NOV.2020 16:32:54

Band17-10MHz-16QAM-23800-1RB#0



Date: 19.NOV.2020 16:33:14

Band17-10MHz-16QAM-23800-50RB#0



Date: 19.NOV.2020 16:33:31

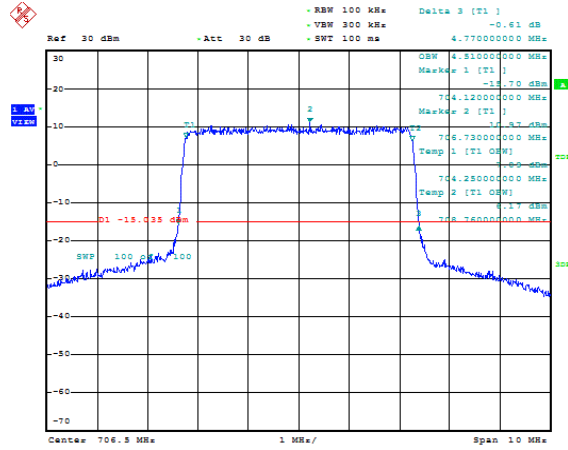
1.3. Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	4.51	4.770	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.5	4.780	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.51	4.800	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.5	4.810	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.51	4.770	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.52	4.790	PASS
Band17	10MHz	QPSK	23780	50RB#0	9	9.667	PASS
Band17	10MHz	QPSK	23790	50RB#0	9	9.667	PASS
Band17	10MHz	QPSK	23800	50RB#0	8.967	9.667	PASS
Band17	10MHz	16QAM	23780	50RB#0	8.967	9.667	PASS
Band17	10MHz	16QAM	23790	50RB#0	9	9.667	PASS
Band17	10MHz	16QAM	23800	50RB#0	8.967	9.667	PASS

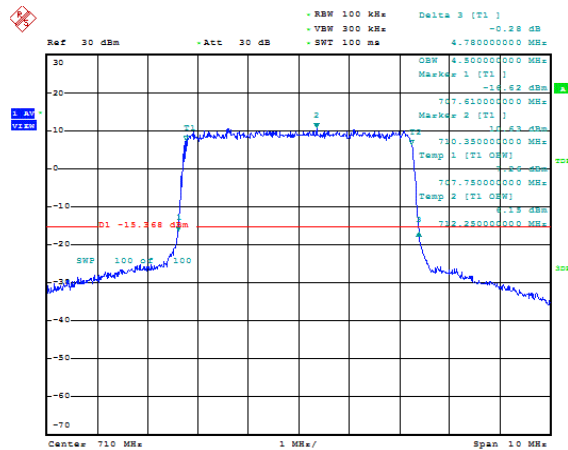
Test Graphs

Band17-5MHz-QPSK-23755-25RB#0-4.51



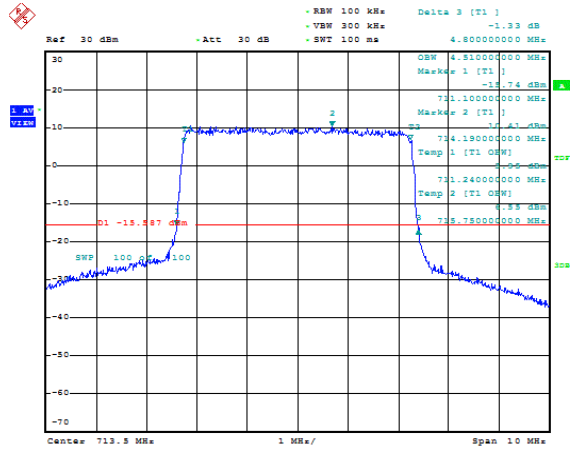
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Band17-5MHz-QPSK-23790-25RB#0-4.5



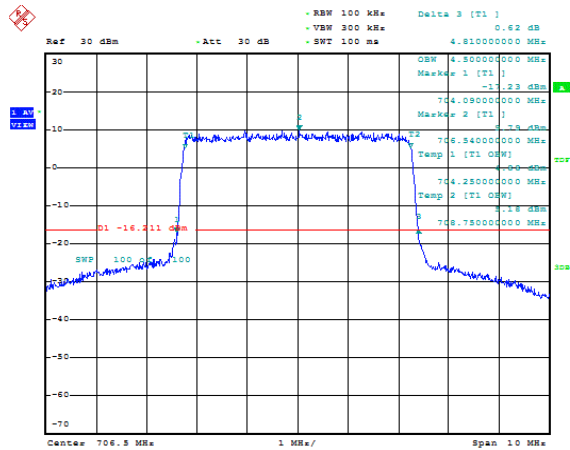
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Band17-5MHz-QPSK-23825-25RB#0-4.51



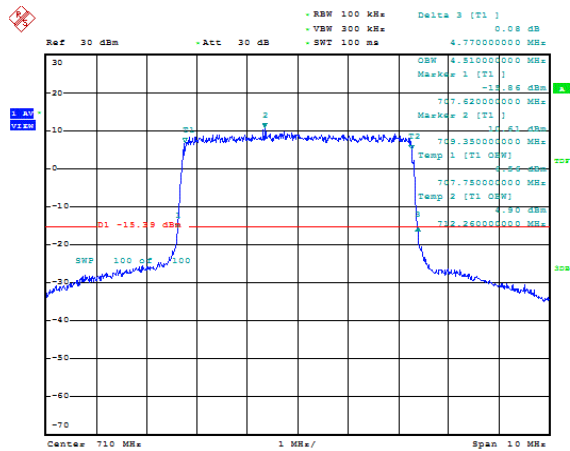
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Band17-5MHz-16QAM-23755-25RB#0-4.5



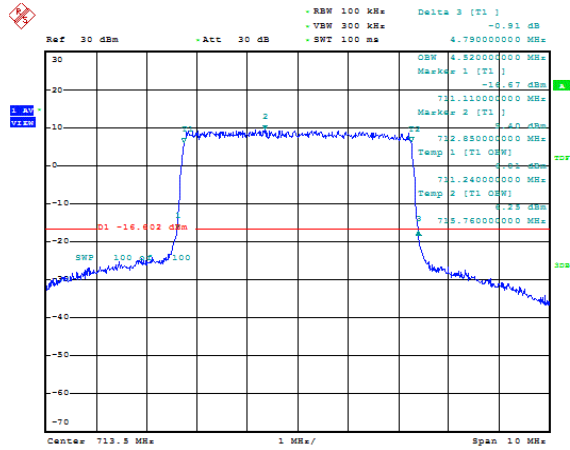
Date: 19.NOV.2020 16:37:51

Band17-5MHz-16QAM-23790-25RB#0-4.51



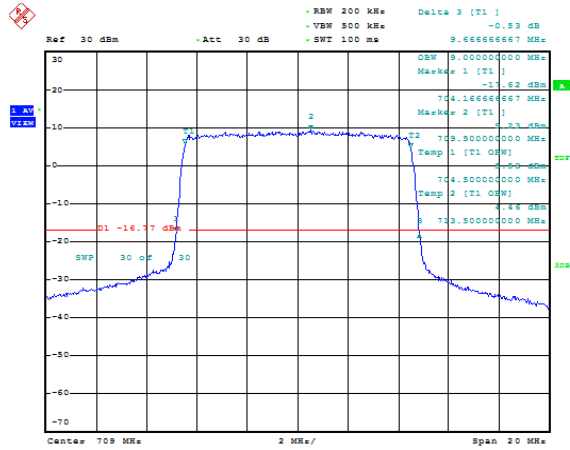
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Band17-5MHz-16QAM-23825-25RB#0-4.52



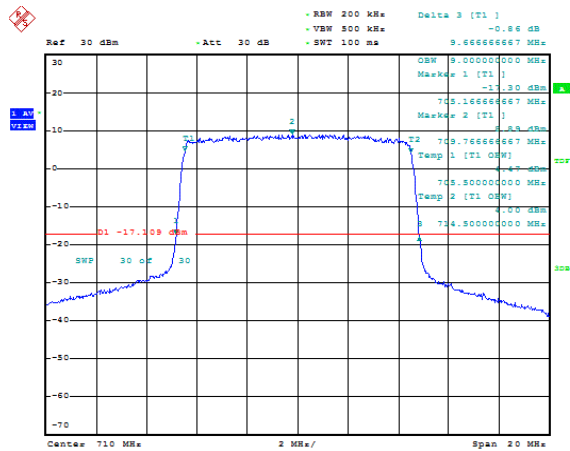
Date: 19.NOV.2020 16:39:05

Band17-10MHz-QPSK-23780-50RB#0-9



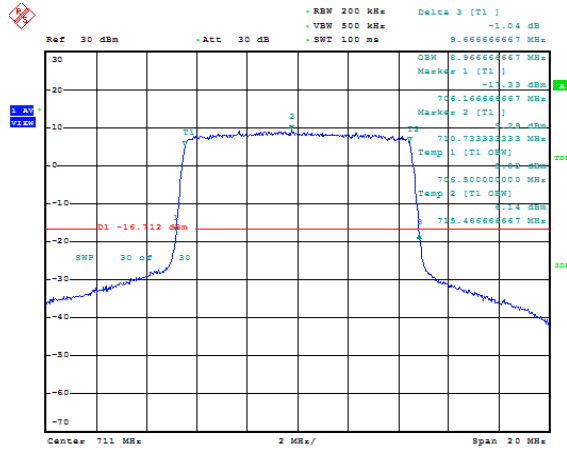
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Band17-10MHz-QPSK-23790-50RB#0-9



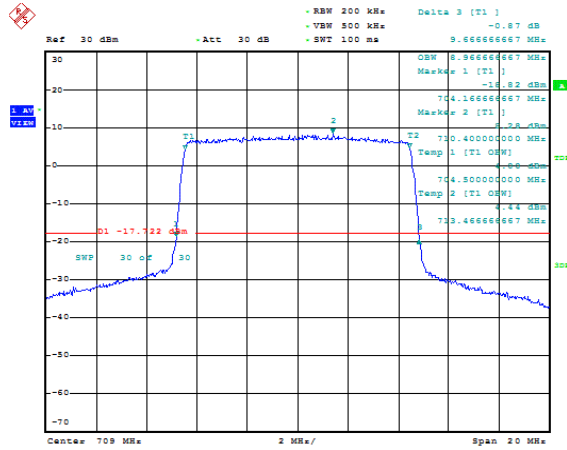
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Band17-10MHz-QPSK-23800-50RB#0-8.967



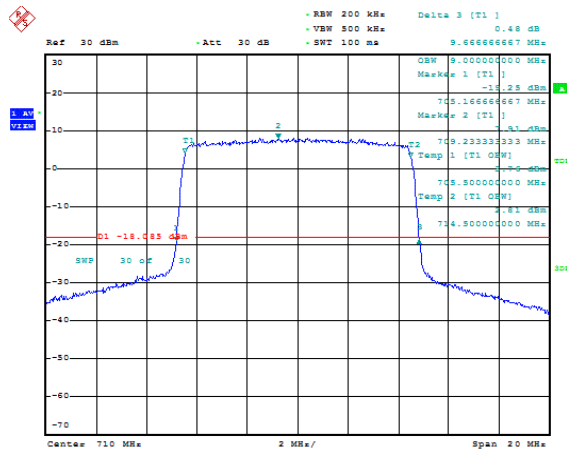
Date: 19.NOV.2020 16:40:22

Band17-10MHz-16QAM-23780-50RB#0-8.967



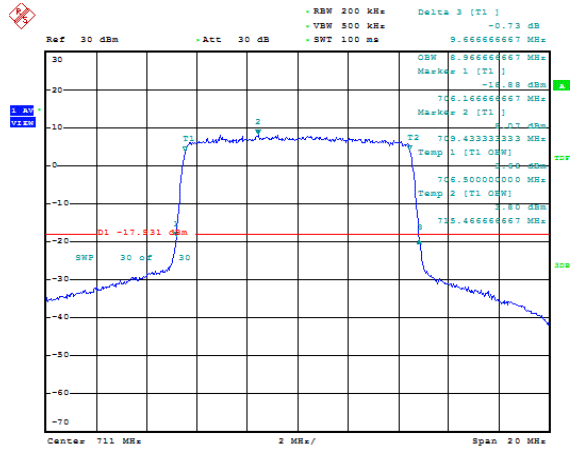
Date: 19.NOV.2020 16:39:56

Band17-10MHz-16QAM-23790-50RB#0-9



Date: 19.NOV.2020 16:40:20

Band17-10MHz-16QAM-23800-50RB#0-8.967



Date: 19.NOV.2020 16:40:42

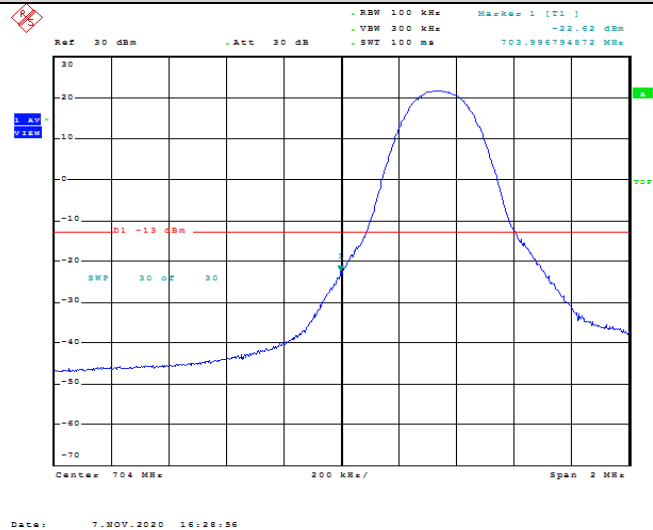
1.4. Appendix D: Band Edge

Test Result

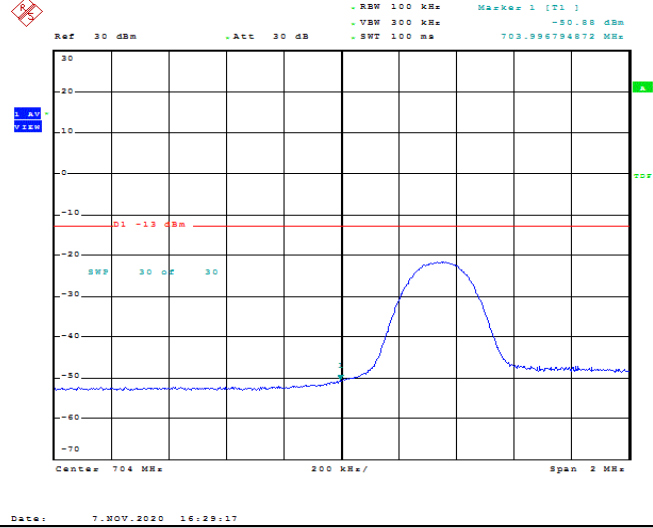
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	-22.62	PASS
Band17	5MHz	QPSK	23755	1RB#24	-50.88	PASS
Band17	5MHz	QPSK	23755	25RB#0	-26.58	PASS
Band17	5MHz	QPSK	23825	1RB#0	-51.08	PASS
Band17	5MHz	QPSK	23825	1RB#24	-22.76	PASS
Band17	5MHz	QPSK	23825	25RB#0	-27.15	PASS
Band17	5MHz	16QAM	23755	1RB#0	-24.51	PASS
Band17	5MHz	16QAM	23755	1RB#24	-51.29	PASS
Band17	5MHz	16QAM	23755	25RB#0	-26.87	PASS
Band17	5MHz	16QAM	23825	1RB#0	-51.21	PASS
Band17	5MHz	16QAM	23825	1RB#24	-22.92	PASS
Band17	5MHz	16QAM	23825	25RB#0	-27.51	PASS
Band17	10MHz	QPSK	23780	1RB#0	-22.88,-16.29	PASS
Band17	10MHz	QPSK	23780	1RB#49	-50.24,-48.77	PASS
Band17	10MHz	QPSK	23780	50RB#0	-29.03,-27.65	PASS
Band17	10MHz	QPSK	23800	1RB#0	-49.24,-50.32	PASS
Band17	10MHz	QPSK	23800	1RB#49	-14.77,-21.24	PASS
Band17	10MHz	QPSK	23800	50RB#0	-27.70,-29.39	PASS
Band17	10MHz	16QAM	23780	1RB#0	-24.05,-17.48	PASS
Band17	10MHz	16QAM	23780	1RB#49	-50.63,-49.70	PASS
Band17	10MHz	16QAM	23780	50RB#0	-29.31,-28.30	PASS
Band17	10MHz	16QAM	23800	1RB#0	-49.83,-50.54	PASS
Band17	10MHz	16QAM	23800	1RB#49	-15.03,-21.64	PASS
Band17	10MHz	16QAM	23800	50RB#0	-28.43,-29.73	PASS

Test Graphs

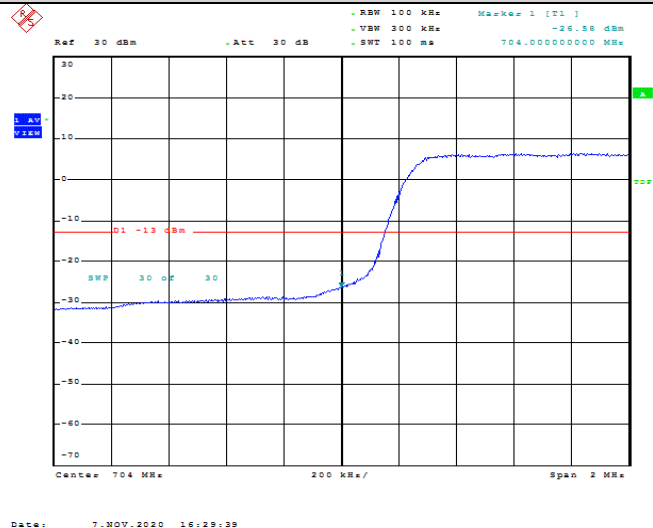
Band17-5MHz-QPSK-23755-1RB#0



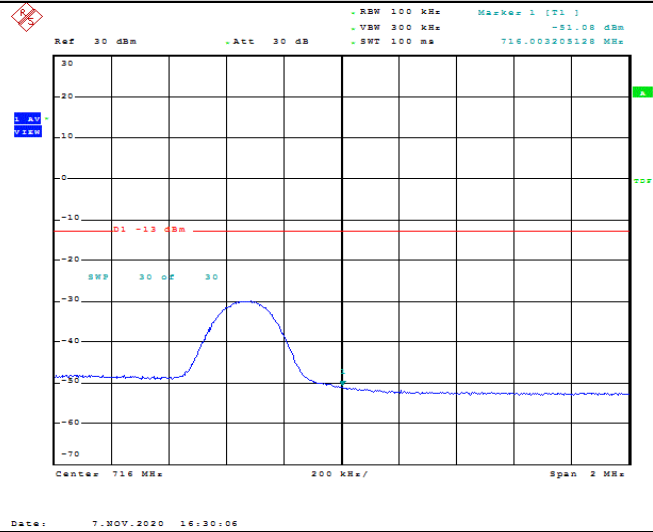
Band17-5MHz-QPSK-23755-1RB#24



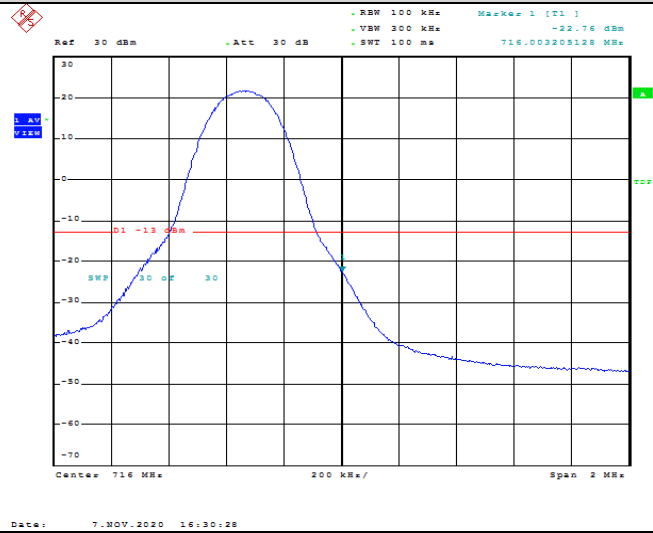
Band17-5MHz-QPSK-23755-25RB#0



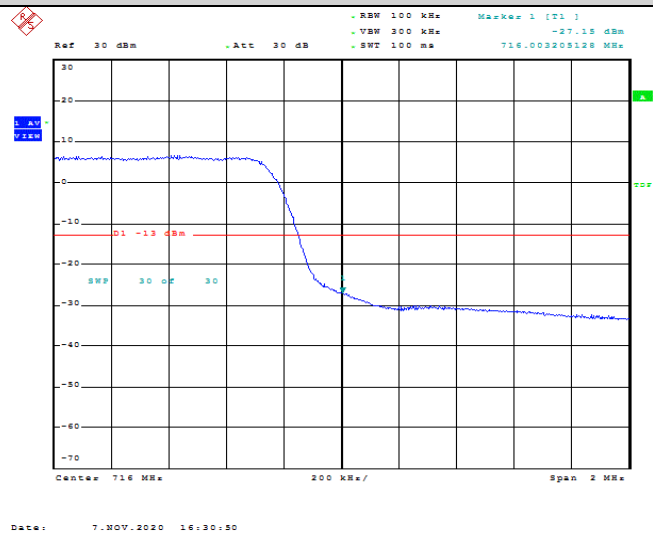
Band17-5MHz-QPSK-23825-1RB#0



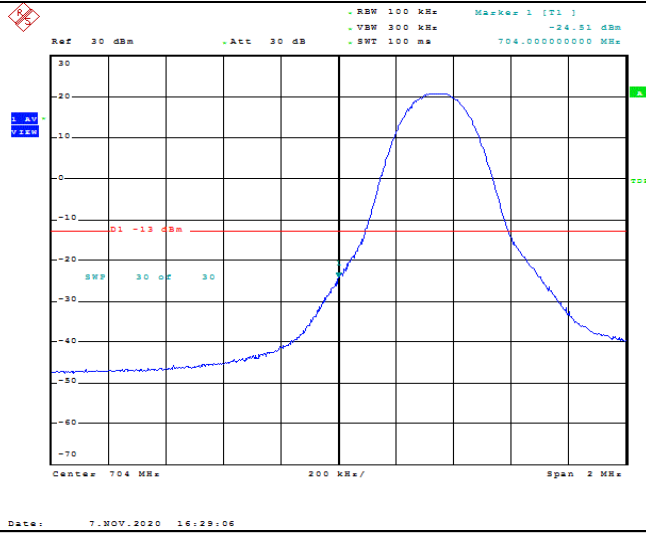
Band17-5MHz-QPSK-23825-1RB#24



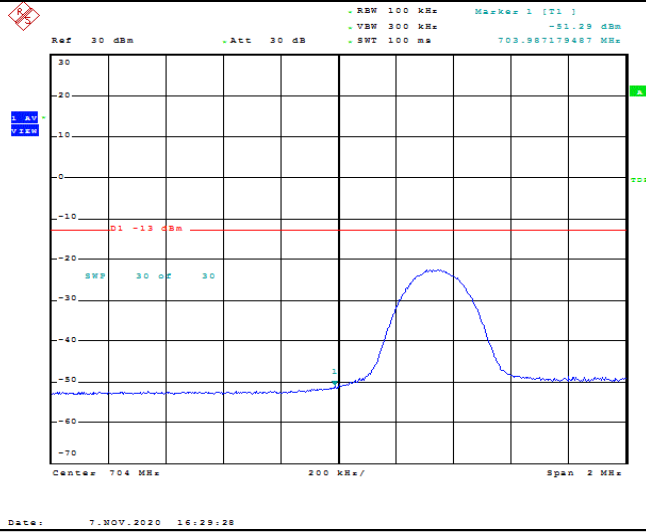
Band17-5MHz-QPSK-23825-25RB#0



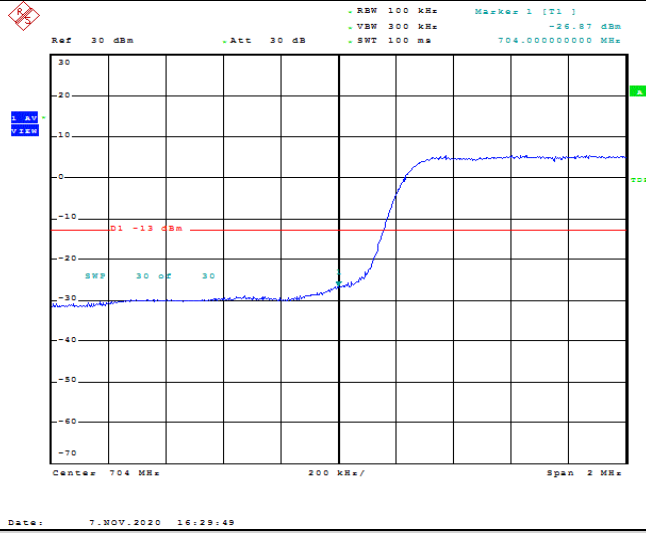
Band17-5MHz-16QAM-23755-1RB#0



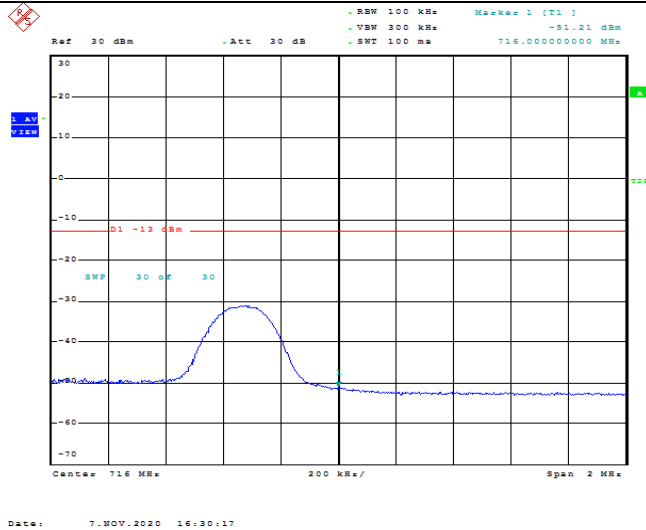
Band17-5MHz-16QAM-23755-1RB#24



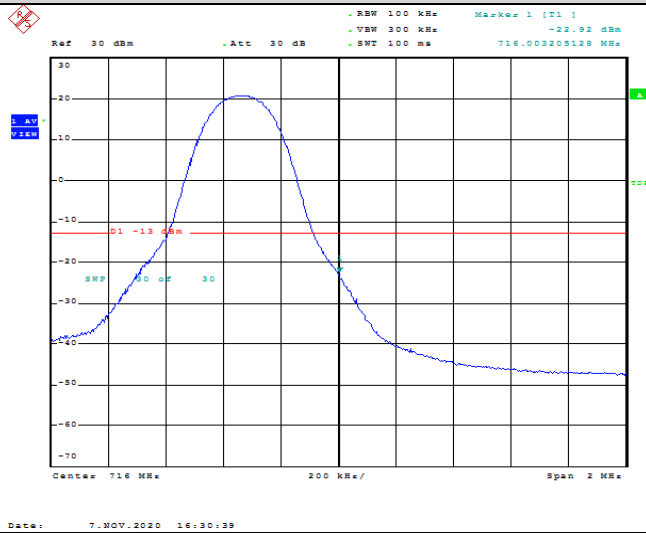
Band17-5MHz-16QAM-23755-25RB#0



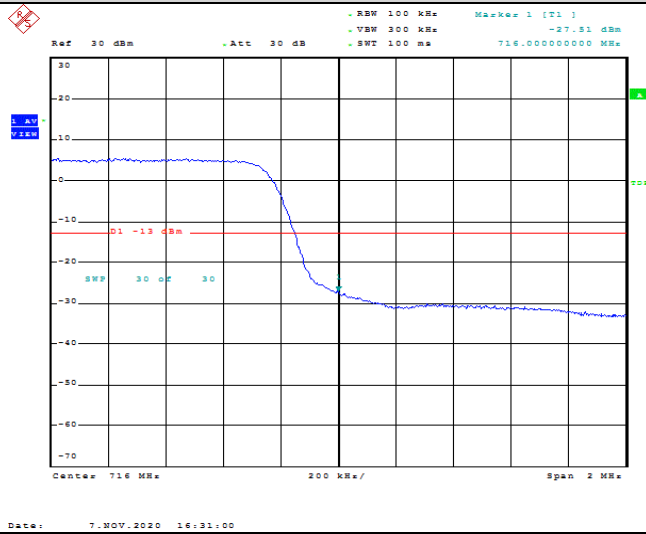
Band17-5MHz-16QAM-23825-1RB#0



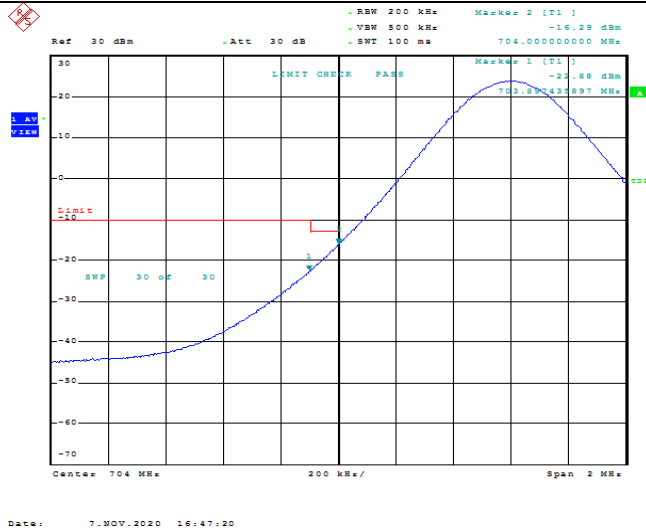
Band17-5MHz-16QAM-23825-1RB#24



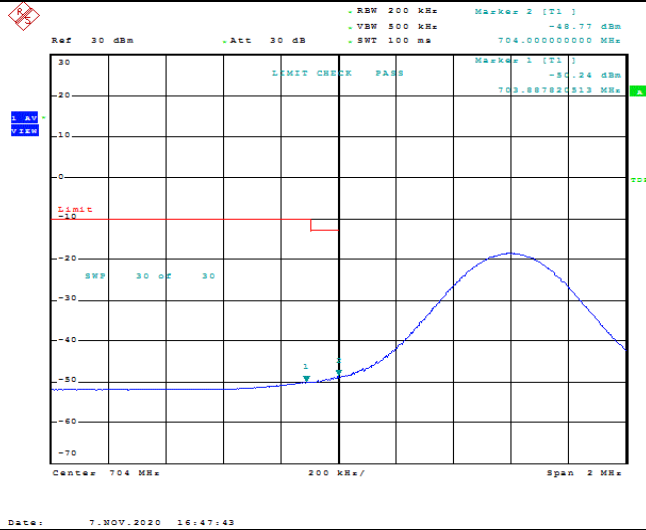
Band17-5MHz-16QAM-23825-25RB#0



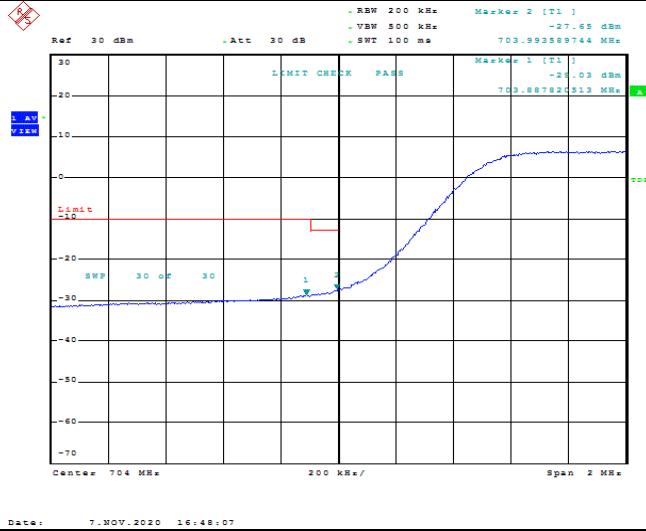
Band17-10MHz-QPSK-23780-1RB#0



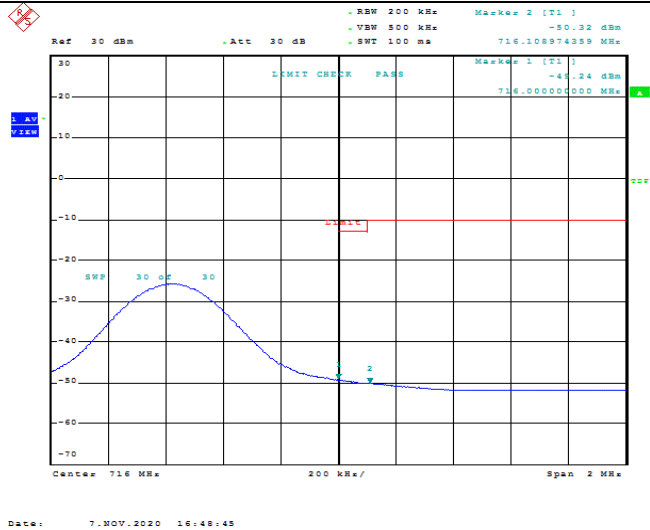
Band17-10MHz-QPSK-23780-1RB#49



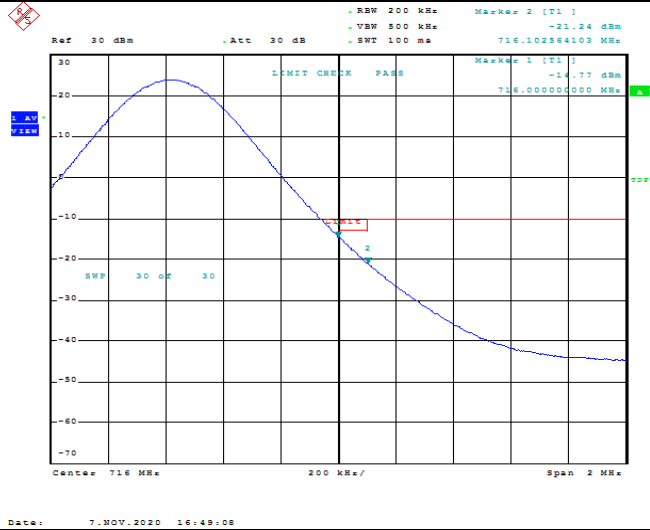
Band17-10MHz-QPSK-23780-50RB#0



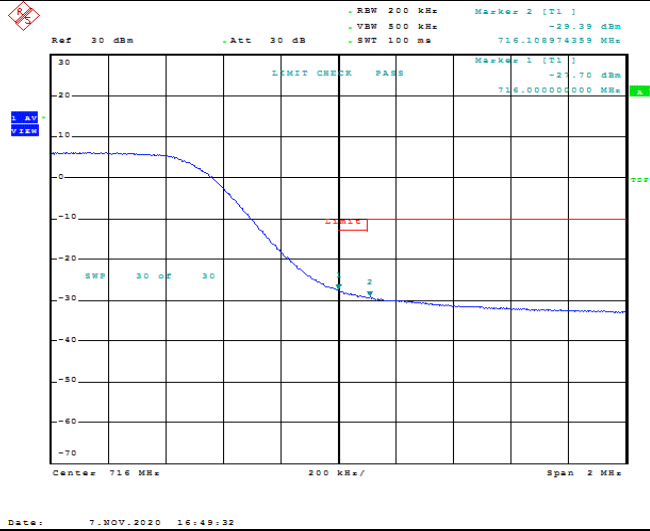
Band17-10MHz-QPSK-23800-1RB#0



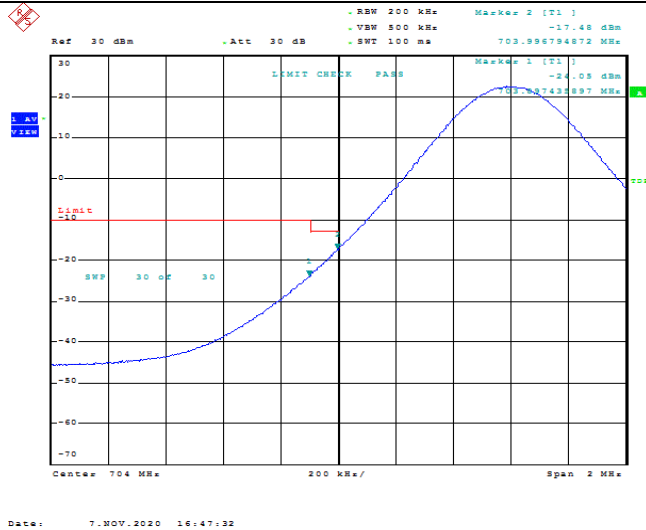
Band17-10MHz-QPSK-23800-1RB#49



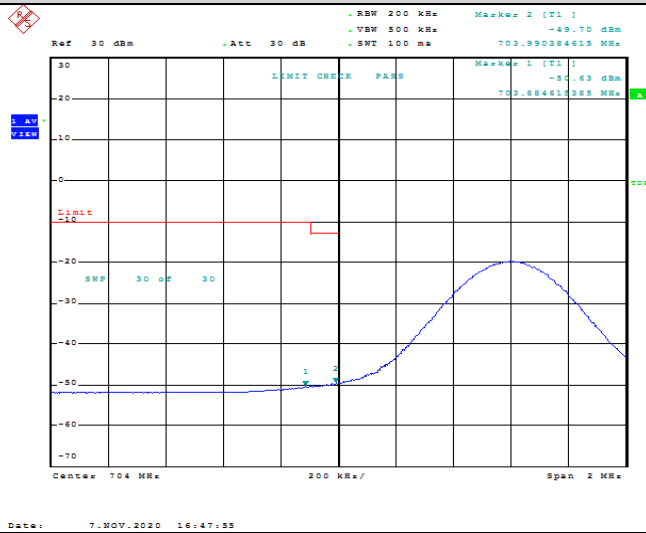
Band17-10MHz-QPSK-23800-50RB#0



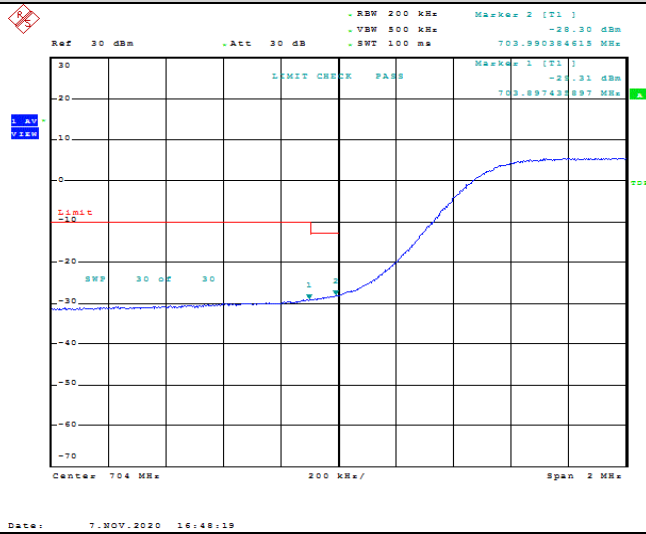
Band17-10MHz-16QAM-23780-1RB#0



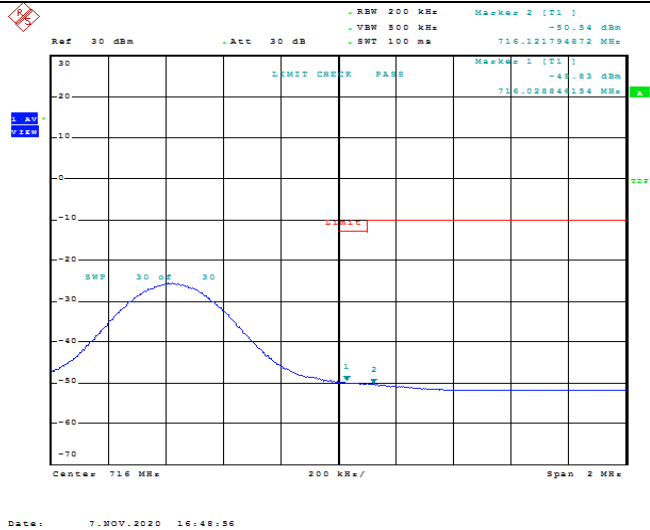
Band17-10MHz-16QAM-23780-1RB#49



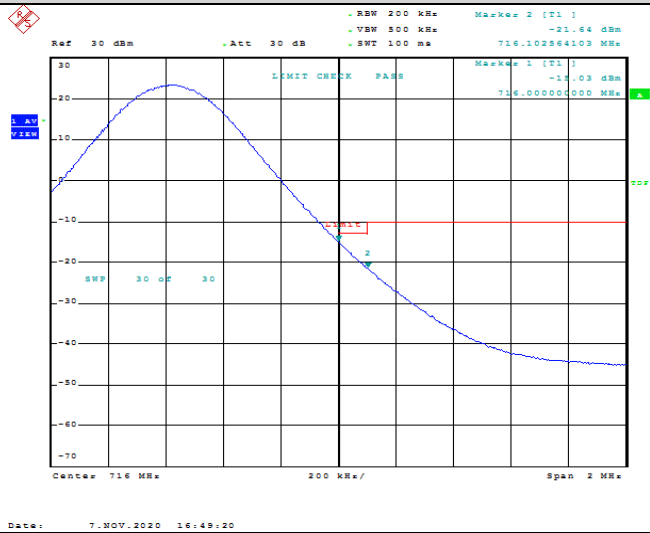
Band17-10MHz-16QAM-23780-50RB#0



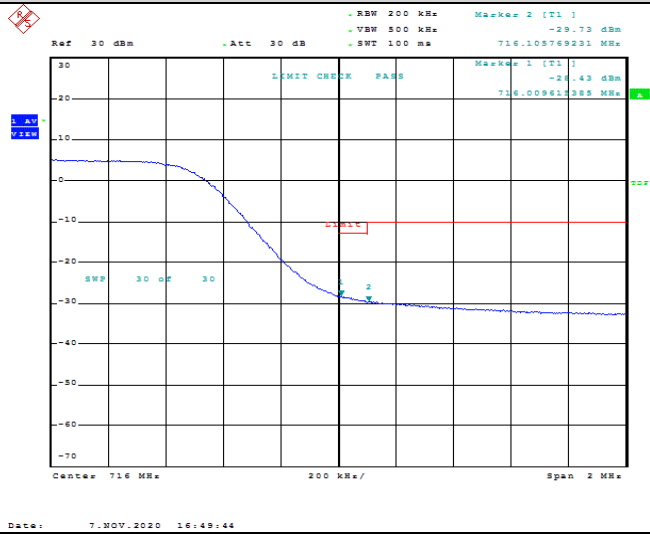
Band17-10MHz-16QAM-23800-1RB#0



Band17-10MHz-16QAM-23800-1RB#49



Band17-10MHz-16QAM-23800-50RB#0



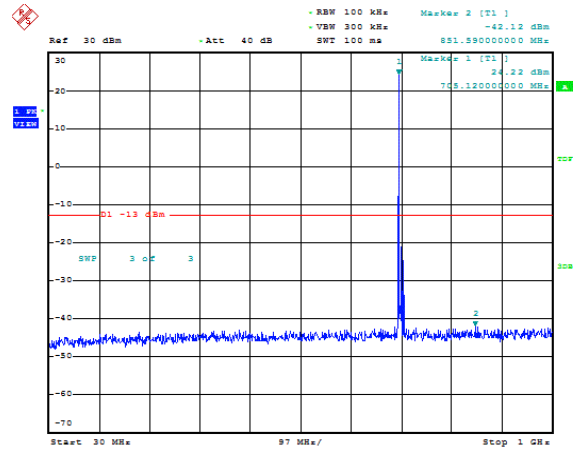
1.5. Appendix E: Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	Range1:30~1000MHz	-42.12	PASS
Band17	5MHz	QPSK	23755	1RB#0	Range2:1000~10000MHz	-34.87	PASS
Band17	5MHz	QPSK	23790	1RB#0	Range1:30~1000MHz	-42.48	PASS
Band17	5MHz	QPSK	23790	1RB#0	Range2:1000~10000MHz	-34.57	PASS
Band17	5MHz	QPSK	23825	1RB#0	Range1:30~1000MHz	-41.59	PASS
Band17	5MHz	QPSK	23825	1RB#0	Range2:1000~10000MHz	-35.12	PASS
Band17	5MHz	16QAM	23755	1RB#0	Range1:30~1000MHz	-42.23	PASS
Band17	5MHz	16QAM	23755	1RB#0	Range2:1000~10000MHz	-34.67	PASS
Band17	5MHz	16QAM	23790	1RB#0	Range1:30~1000MHz	-41.05	PASS
Band17	5MHz	16QAM	23790	1RB#0	Range2:1000~10000MHz	-34.56	PASS
Band17	5MHz	16QAM	23825	1RB#0	Range1:30~1000MHz	-41.98	PASS
Band17	5MHz	16QAM	23825	1RB#0	Range2:1000~10000MHz	-34.64	PASS
Band17	10MHz	QPSK	23780	1RB#0	Range1:30~1000MHz	-42.27	PASS
Band17	10MHz	QPSK	23780	1RB#0	Range2:1000~10000MHz	-34.07	PASS
Band17	10MHz	QPSK	23790	1RB#0	Range1:30~1000MHz	-42.39	PASS
Band17	10MHz	QPSK	23790	1RB#0	Range2:1000~10000MHz	-34.12	PASS
Band17	10MHz	QPSK	23800	1RB#0	Range1:30~1000MHz	-42.67	PASS
Band17	10MHz	QPSK	23800	1RB#0	Range2:1000~10000MHz	-35.02	PASS
Band17	10MHz	16QAM	23780	1RB#0	Range1:30~1000MHz	-41.81	PASS
Band17	10MHz	16QAM	23780	1RB#0	Range2:1000~10000MHz	-34.62	PASS
Band17	10MHz	16QAM	23790	1RB#0	Range1:30~1000MHz	-42.36	PASS
Band17	10MHz	16QAM	23790	1RB#0	Range2:1000~10000MHz	-34.42	PASS
Band17	10MHz	16QAM	23800	1RB#0	Range1:30~1000MHz	-42.33	PASS
Band17	10MHz	16QAM	23800	1RB#0	Range2:1000~10000MHz	-34.73	PASS

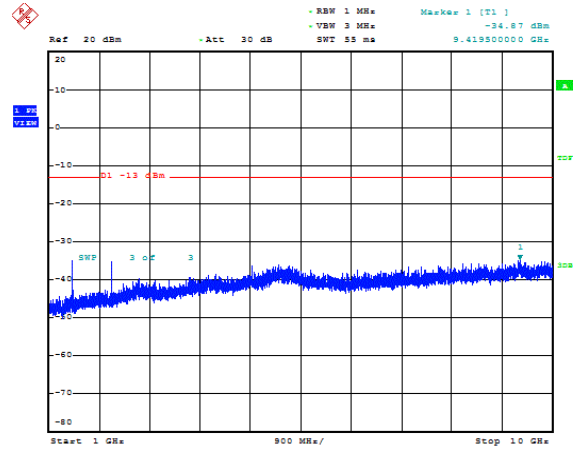
Test Graphs

Band17-5MHz-QPSK-23755-1RB#0-Range1:30~1000MHz



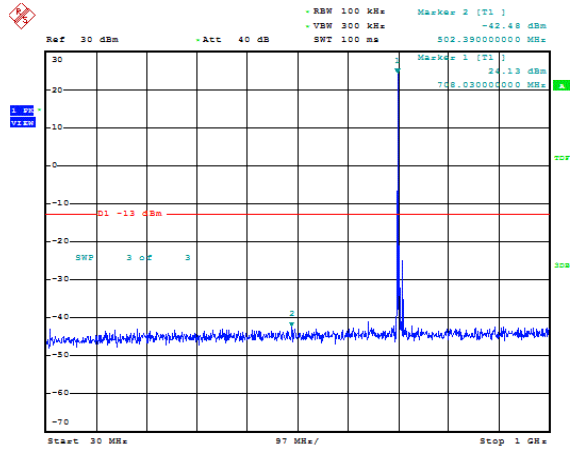
Date: 19.NOV.2020 16:44:39

Band17-5MHz-QPSK-23755-1RB#0-Range2:1000~10000MHz



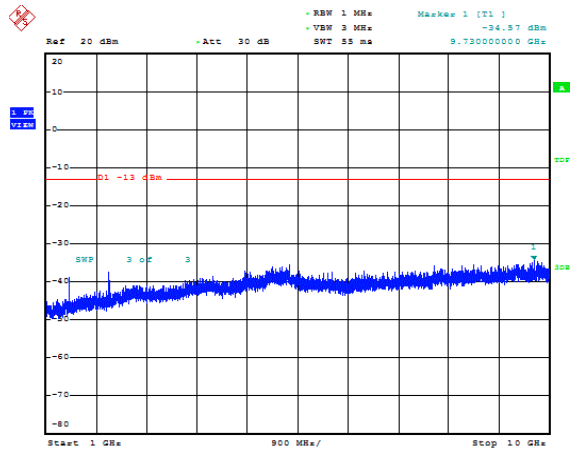
Date: 19.NOV.2020 16:44:47

Band17-5MHz-QPSK-23790-1RB#0-Range1:30~1000MHz



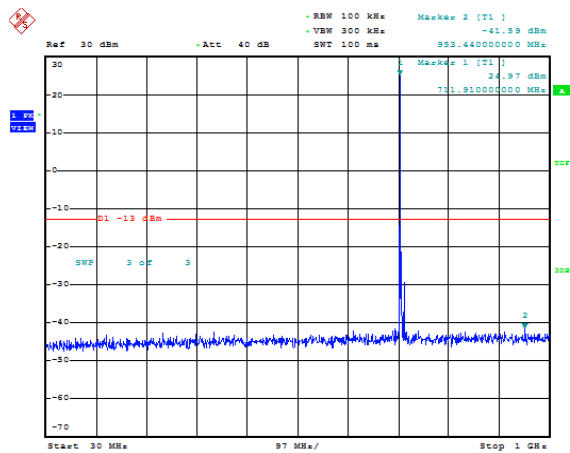
Date: 19.NOV.2020 16:45:16

Band17-5MHz-QPSK-23790-1RB#0-Range2:1000~10000MHz



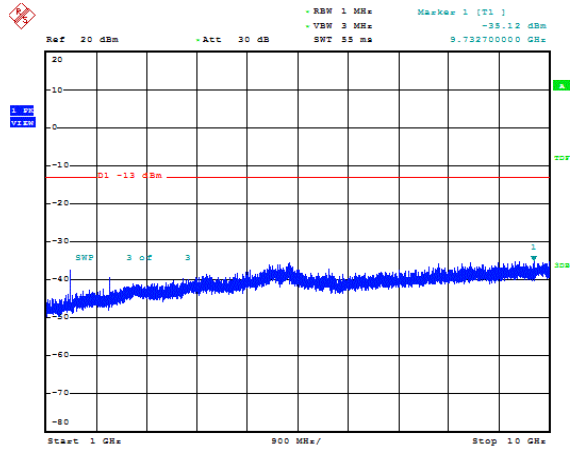
Date: 19.NOV.2020 16:45:24

Band17-5MHz-QPSK-23825-1RB#0-Range1:30~1000MHz



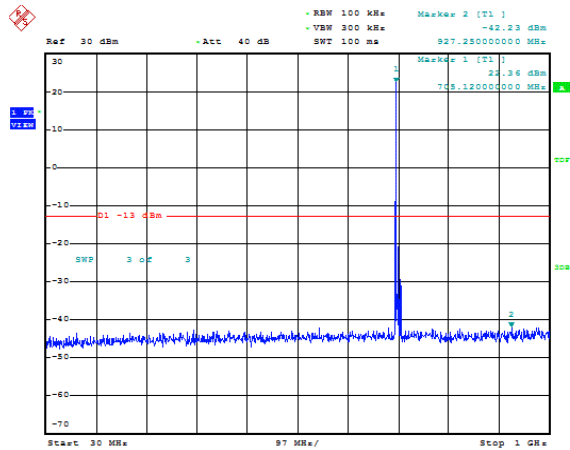
Date: 19.NOV.2020 16:45:53

Band17-5MHz-QPSK-23825-1RB#0-Range2:1000~10000MHz



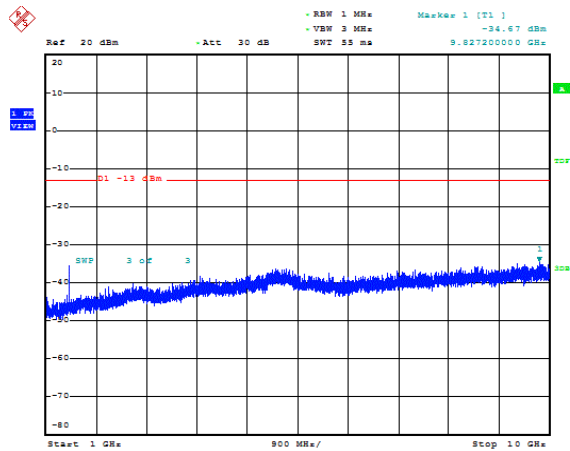
Date: 19.NOV.2020 16:46:01

Band17-5MHz-16QAM-23755-1RB#0-Range1:30~1000MHz



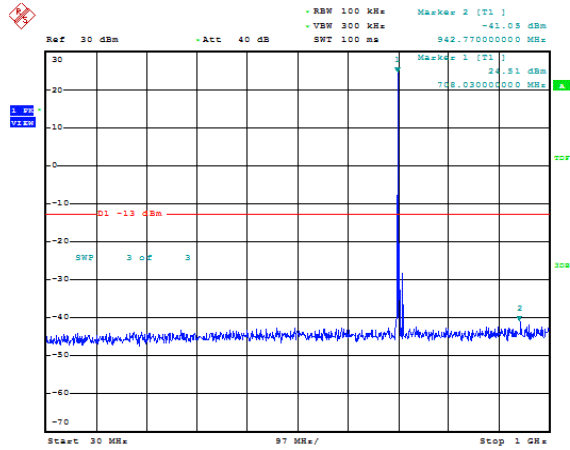
Date: 19.NOV.2020 16:44:56

Band17-5MHz-16QAM-23755-1RB#0-Range2:1000~10000MHz



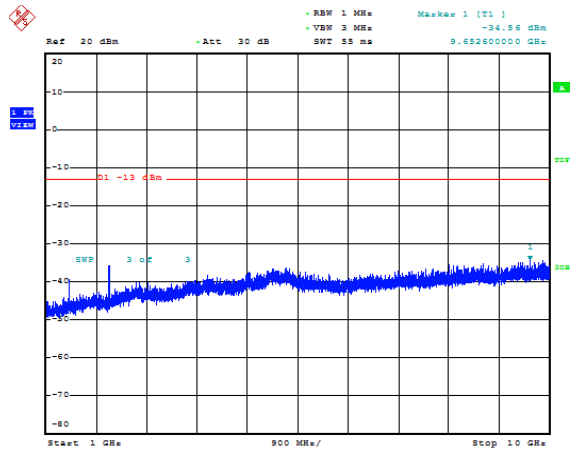
Date: 19.NOV.2020 16:45:04

Band17-5MHz-16QAM-23790-1RB#0-Range1:30~1000MHz



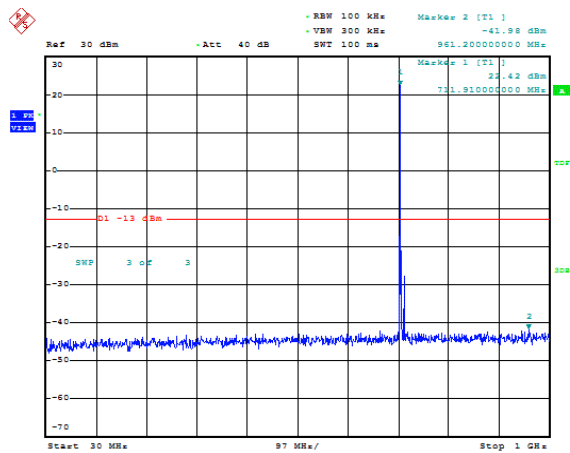
Date: 19.NOV.2020 16:45:24

Band17-5MHz-16QAM-23790-1RB#0-Range2:1000~10000MHz



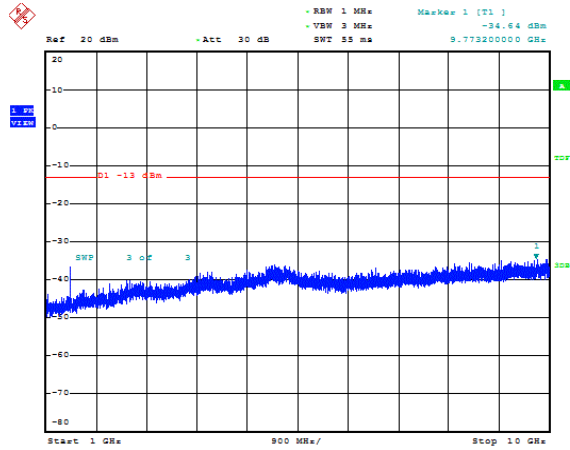
Date: 19.NOV.2020 16:45:42

Band17-5MHz-16QAM-23825-1RB#0-Range1:30~1000MHz



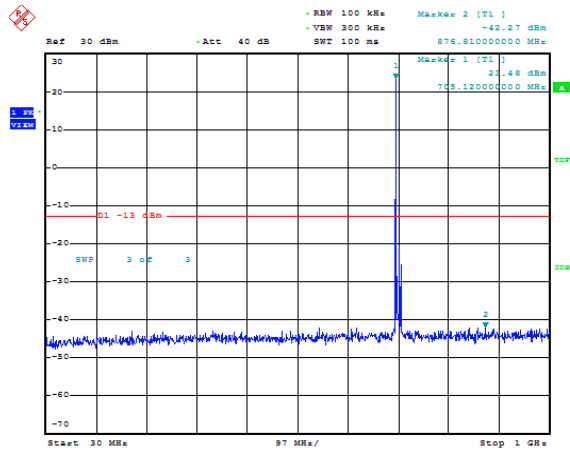
Date: 19.NOV.2020 16:46:11

Band17-5MHz-16QAM-23825-1RB#0-Range2:1000~10000MHz



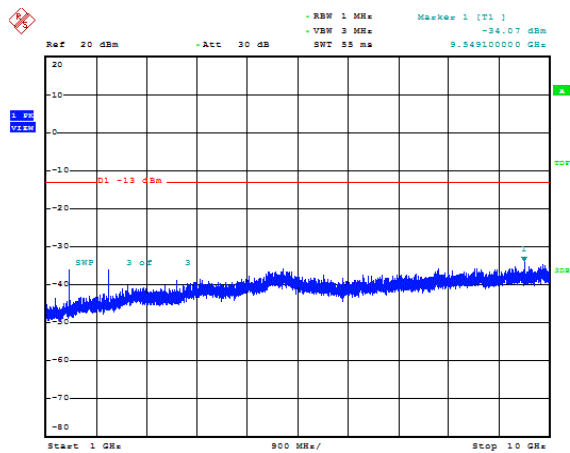
Date: 19.NOV.2020 16:46:19

Band17-10MHz-QPSK-23780-1RB#0-Range1:30~1000MHz



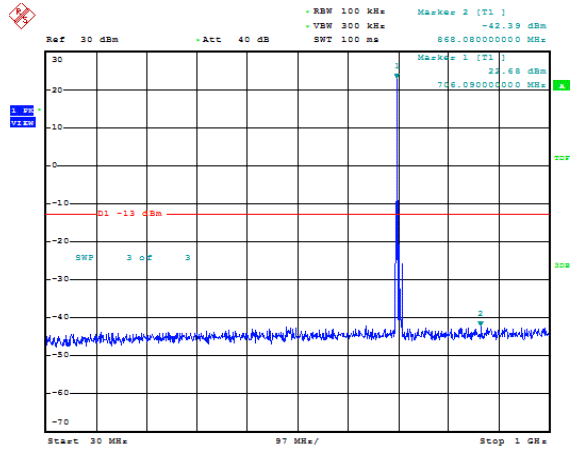
Date: 19.NOV.2020 16:46:59

Band17-10MHz-QPSK-23780-1RB#0-Range2:1000~10000MHz



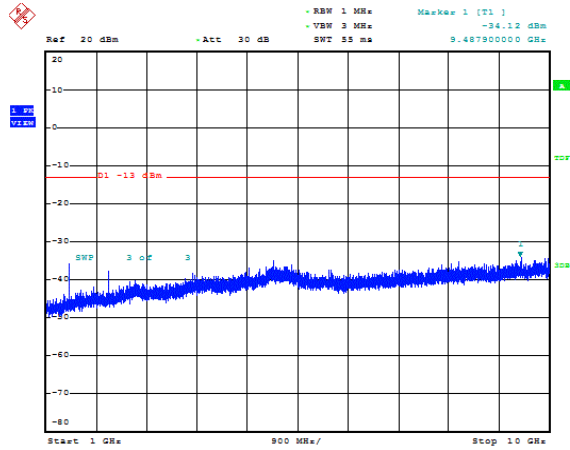
Date: 19.NOV.2020 16:47:07

Band17-10MHz-QPSK-23790-1RB#0-Range1:30~1000MHz



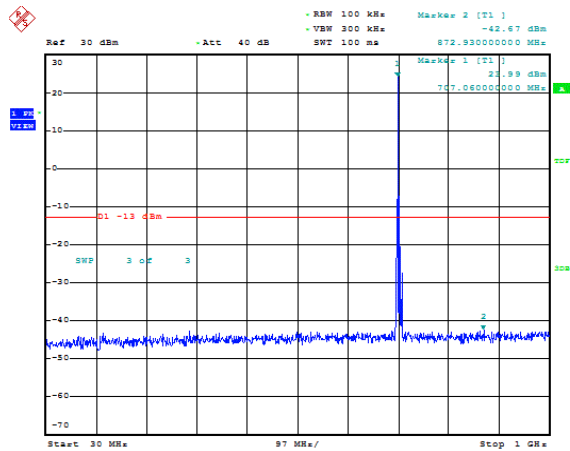
Date: 19.NOV.2020 16:47:37

Band17-10MHz-QPSK-23790-1RB#0-Range2:1000~10000MHz



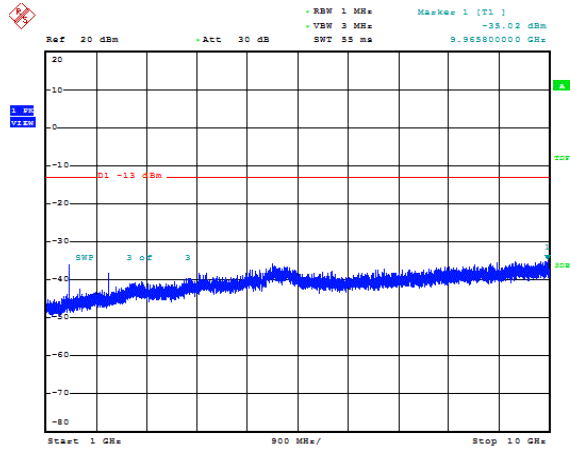
Date: 19.NOV.2020 16:47:45

Band17-10MHz-QPSK-23800-1RB#0-Range1:30~1000MHz



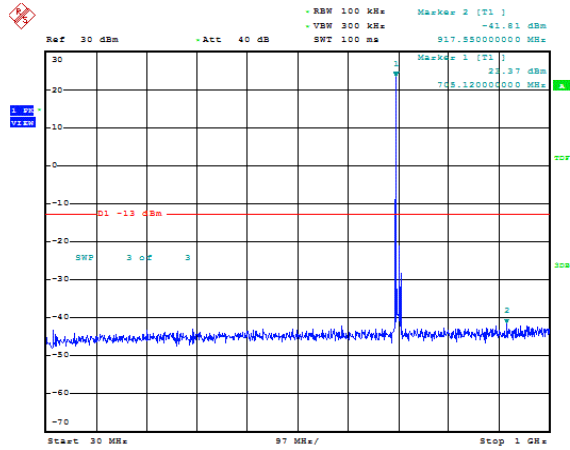
Date: 19.NOV.2020 16:48:14

Band17-10MHz-QPSK-23800-1RB#0-Range2:1000~10000MHz



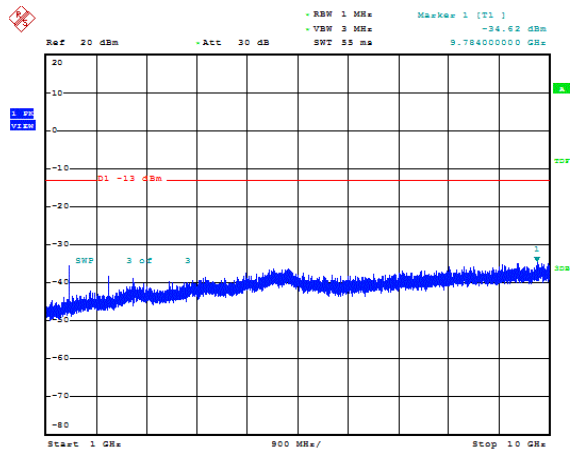
Date: 19.NOV.2020 16:48:22

Band17-10MHz-16QAM-23780-1RB#0-Range1:30~1000MHz



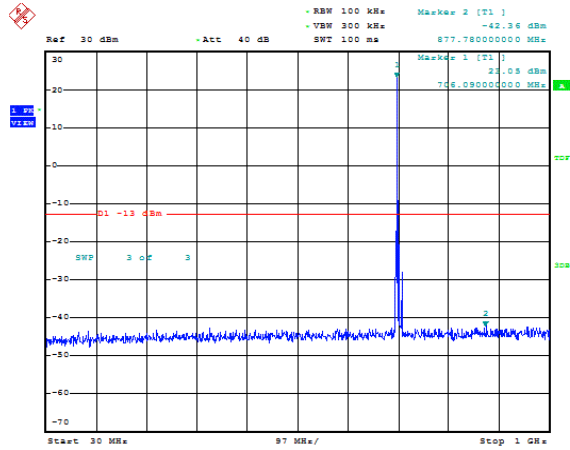
Date: 19.NOV.2020 16:47:17

Band17-10MHz-16QAM-23780-1RB#0-Range2:1000~10000MHz



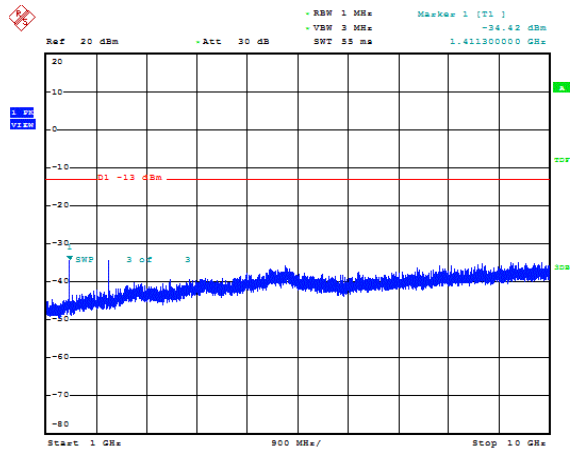
Date: 19.NOV.2020 16:47:25

Band17-10MHz-16QAM-23790-1RB#0-Range1:30~1000MHz



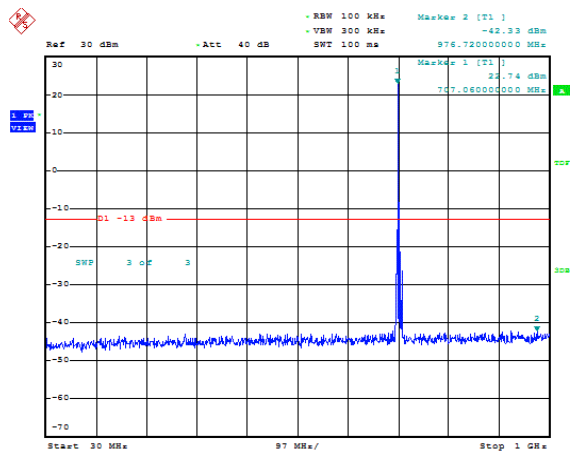
Date: 19.NOV.2020 16:47:55

Band17-10MHz-16QAM-23790-1RB#0-Range2:1000~10000MHz



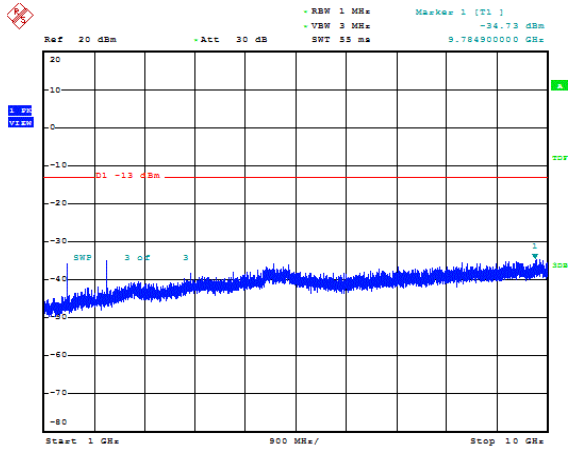
Date: 19.NOV.2020 16:48:03

Band17-10MHz-16QAM-23800-1RB#0-Range1:30~1000MHz



Date: 19.NOV.2020 16:48:32

Band17-10MHz-16QAM-23800-1RB#0-Range2:1000~10000MHz



Date: 19.NOV.2020 16:48:40

1.6. Appendix F: Frequency Stability

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	VL	NT	-2.50	-0.003539	±2.5	PASS
Band17	5MHz	QPSK	23755	25RB#0	VN	NT	-3.48	-0.004926	±2.5	PASS
Band17	5MHz	QPSK	23755	25RB#0	VH	NT	-1.79	-0.002534	±2.5	PASS
Band17	5MHz	QPSK	23790	25RB#0	VL	NT	1.76	0.002479	±2.5	PASS
Band17	5MHz	QPSK	23790	25RB#0	VN	NT	1.39	0.001958	±2.5	PASS
Band17	5MHz	QPSK	23790	25RB#0	VH	NT	-1.13	-0.001592	±2.5	PASS
Band17	5MHz	QPSK	23825	25RB#0	VL	NT	-2.37	-0.003322	±2.5	PASS
Band17	5MHz	QPSK	23825	25RB#0	VN	NT	-2.57	-0.003602	±2.5	PASS
Band17	5MHz	QPSK	23825	25RB#0	VH	NT	-1.33	-0.001864	±2.5	PASS
Band17	5MHz	16QAM	23755	25RB#0	VL	NT	-1.34	-0.001897	±2.5	PASS
Band17	5MHz	16QAM	23755	25RB#0	VN	NT	-4.11	-0.005817	±2.5	PASS
Band17	5MHz	16QAM	23755	25RB#0	VH	NT	-2.59	-0.003666	±2.5	PASS
Band17	5MHz	16QAM	23790	25RB#0	VL	NT	2.15	0.003028	±2.5	PASS
Band17	5MHz	16QAM	23790	25RB#0	VN	NT	-2.66	-0.003746	±2.5	PASS
Band17	5MHz	16QAM	23790	25RB#0	VH	NT	2.56	0.003606	±2.5	PASS
Band17	5MHz	16QAM	23825	25RB#0	VL	NT	-2.99	-0.004191	±2.5	PASS
Band17	5MHz	16QAM	23825	25RB#0	VN	NT	-1.34	-0.001878	±2.5	PASS
Band17	5MHz	16QAM	23825	25RB#0	VH	NT	-2.43	-0.003406	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	VL	NT	1.79	0.002525	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	VN	NT	-3.02	-0.004260	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	VH	NT	-2.86	-0.004034	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	VL	NT	-1.66	-0.002338	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	VN	NT	-1.86	-0.002620	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	VH	NT	-1.70	-0.002394	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	VL	NT	-2.13	-0.002996	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	VN	NT	-1.87	-0.002630	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	VH	NT	-1.80	-0.002532	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	VL	NT	1.54	0.002172	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	VN	NT	-1.13	-0.001594	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	VH	NT	-1.54	-0.002172	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	VL	NT	2.35	0.003310	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	VN	NT	-2.39	-0.003366	±2.5	PASS

Band17	10MHz	16QAM	23790	50RB#0	VH	NT	-2.33	-0.003282	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	VL	NT	-3.39	-0.004768	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	VN	NT	2.32	0.003263	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	VH	NT	-2.78	-0.003910	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	NV	-20	-1.62	-0.002293	±2.5	PASS
Band17	5MHz	QPSK	23755	25RB#0	NV	-10	-1.87	-0.002647	±2.5	PASS
Band17	5MHz	QPSK	23755	25RB#0	NV	0	-3.43	-0.004855	±2.5	PASS
Band17	5MHz	QPSK	23755	25RB#0	NV	10	-3.66	-0.005180	±2.5	PASS
Band17	5MHz	QPSK	23755	25RB#0	NV	20	-1.72	-0.002435	±2.5	PASS
Band17	5MHz	QPSK	23755	25RB#0	NV	30	-1.95	-0.002760	±2.5	PASS
Band17	5MHz	QPSK	23755	25RB#0	NV	40	-2.99	-0.004232	±2.5	PASS
Band17	5MHz	QPSK	23755	25RB#0	NV	50	-3.71	-0.005251	±2.5	PASS
Band17	5MHz	QPSK	23755	25RB#0	NV	60	-1.79	-0.002534	±2.5	PASS
Band17	5MHz	QPSK	23790	25RB#0	NV	-20	1.27	0.001789	±2.5	PASS
Band17	5MHz	QPSK	23790	25RB#0	NV	-10	-1.04	-0.001465	±2.5	PASS
Band17	5MHz	QPSK	23790	25RB#0	NV	0	-1.69	-0.002380	±2.5	PASS
Band17	5MHz	QPSK	23790	25RB#0	NV	10	-2.56	-0.003606	±2.5	PASS
Band17	5MHz	QPSK	23790	25RB#0	NV	20	-2.19	-0.003085	±2.5	PASS
Band17	5MHz	QPSK	23790	25RB#0	NV	30	1.82	0.002563	±2.5	PASS
Band17	5MHz	QPSK	23790	25RB#0	NV	40	-0.96	-0.001352	±2.5	PASS
Band17	5MHz	QPSK	23790	25RB#0	NV	50	1.77	0.002493	±2.5	PASS
Band17	5MHz	QPSK	23790	25RB#0	NV	60	-2.26	-0.003183	±2.5	PASS
Band17	5MHz	QPSK	23825	25RB#0	NV	-20	-3.50	-0.004905	±2.5	PASS
Band17	5MHz	QPSK	23825	25RB#0	NV	-10	-2.46	-0.003448	±2.5	PASS
Band17	5MHz	QPSK	23825	25RB#0	NV	0	-1.57	-0.002200	±2.5	PASS
Band17	5MHz	QPSK	23825	25RB#0	NV	10	-3.20	-0.004485	±2.5	PASS
Band17	5MHz	QPSK	23825	25RB#0	NV	20	-1.93	-0.002705	±2.5	PASS
Band17	5MHz	QPSK	23825	25RB#0	NV	30	-2.96	-0.004149	±2.5	PASS
Band17	5MHz	QPSK	23825	25RB#0	NV	40	1.77	0.002481	±2.5	PASS
Band17	5MHz	QPSK	23825	25RB#0	NV	50	-2.50	-0.003504	±2.5	PASS
Band17	5MHz	QPSK	23825	25RB#0	NV	60	1.66	0.002327	±2.5	PASS
Band17	5MHz	16QAM	23755	25RB#0	NV	-20	-2.06	-0.002916	±2.5	PASS
Band17	5MHz	16QAM	23755	25RB#0	NV	-10	-1.90	-0.002689	±2.5	PASS
Band17	5MHz	16QAM	23755	25RB#0	NV	0	-1.69	-0.002392	±2.5	PASS
Band17	5MHz	16QAM	23755	25RB#0	NV	10	-2.66	-0.003765	±2.5	PASS

Band17	5MHz	16QAM	23755	25RB#0	NV	20	-1.77	-0.002505	±2.5	PASS
Band17	5MHz	16QAM	23755	25RB#0	NV	30	-4.39	-0.006214	±2.5	PASS
Band17	5MHz	16QAM	23755	25RB#0	NV	40	-4.05	-0.005732	±2.5	PASS
Band17	5MHz	16QAM	23755	25RB#0	NV	50	-3.62	-0.005124	±2.5	PASS
Band17	5MHz	16QAM	23755	25RB#0	NV	60	-3.69	-0.005223	±2.5	PASS
Band17	5MHz	16QAM	23790	25RB#0	NV	-20	2.69	0.003789	±2.5	PASS
Band17	5MHz	16QAM	23790	25RB#0	NV	-10	-1.80	-0.002535	±2.5	PASS
Band17	5MHz	16QAM	23790	25RB#0	NV	0	1.24	0.001746	±2.5	PASS
Band17	5MHz	16QAM	23790	25RB#0	NV	10	2.30	0.003239	±2.5	PASS
Band17	5MHz	16QAM	23790	25RB#0	NV	20	-3.13	-0.004408	±2.5	PASS
Band17	5MHz	16QAM	23790	25RB#0	NV	30	-1.44	-0.002028	±2.5	PASS
Band17	5MHz	16QAM	23790	25RB#0	NV	40	0.99	0.001394	±2.5	PASS
Band17	5MHz	16QAM	23790	25RB#0	NV	50	2.42	0.003408	±2.5	PASS
Band17	5MHz	16QAM	23790	25RB#0	NV	60	1.75	0.002465	±2.5	PASS
Band17	5MHz	16QAM	23825	25RB#0	NV	-20	2.03	0.002845	±2.5	PASS
Band17	5MHz	16QAM	23825	25RB#0	NV	-10	-3.12	-0.004373	±2.5	PASS
Band17	5MHz	16QAM	23825	25RB#0	NV	0	-2.70	-0.003784	±2.5	PASS
Band17	5MHz	16QAM	23825	25RB#0	NV	10	-3.00	-0.004205	±2.5	PASS
Band17	5MHz	16QAM	23825	25RB#0	NV	20	-2.86	-0.004008	±2.5	PASS
Band17	5MHz	16QAM	23825	25RB#0	NV	30	-2.19	-0.003069	±2.5	PASS
Band17	5MHz	16QAM	23825	25RB#0	NV	40	-3.15	-0.004415	±2.5	PASS
Band17	5MHz	16QAM	23825	25RB#0	NV	50	-2.17	-0.003041	±2.5	PASS
Band17	5MHz	16QAM	23825	25RB#0	NV	60	-2.39	-0.003350	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	-20	-2.22	-0.003131	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	-10	-2.30	-0.003244	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	0	-2.56	-0.003611	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	10	-2.50	-0.003526	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	20	-2.95	-0.004161	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	30	-2.39	-0.003371	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	40	-1.37	-0.001932	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	50	-2.50	-0.003526	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	60	-3.58	-0.005049	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-20	1.52	0.002141	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-10	-1.03	-0.001451	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	0	-2.82	-0.003972	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	10	-1.53	-0.002155	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	20	-1.75	-0.002465	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	30	-1.14	-0.001606	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	40	-1.87	-0.002634	±2.5	PASS

Band17	10MHz	QPSK	23790	50RB#0	NV	50	-1.87	-0.002634	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	60	-3.55	-0.005000	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	-20	-2.99	-0.004205	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	-10	-4.01	-0.005640	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	0	-2.90	-0.004079	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	10	-3.83	-0.005387	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	20	-4.11	-0.005781	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	30	-2.73	-0.003840	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	40	-2.98	-0.004191	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	50	-3.98	-0.005598	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	60	-3.32	-0.004669	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	-20	-1.72	-0.002426	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	-10	-2.42	-0.003413	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	0	-3.09	-0.004358	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	10	-1.92	-0.002708	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	20	-1.59	-0.002243	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	30	-2.56	-0.003611	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	40	-1.65	-0.002327	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	50	-2.82	-0.003977	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	60	-2.52	-0.003554	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	-20	2.72	0.003831	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	-10	-2.25	-0.003169	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	0	1.63	0.002296	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	10	2.86	0.004028	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	20	2.02	0.002845	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	30	2.46	0.003465	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	40	1.59	0.002239	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	50	-0.93	-0.001310	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	60	1.16	0.001634	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	-20	-2.43	-0.003418	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	-10	-3.71	-0.005218	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	0	-2.57	-0.003615	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	10	-3.82	-0.005373	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	20	-1.54	-0.002166	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	30	-2.46	-0.003460	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	40	-3.39	-0.004768	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	50	-2.57	-0.003615	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	60	-1.53	-0.002152	±2.5	PASS

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