



CTC Laboratories, Inc.

1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China
Tel: +86-755-27521059 Fax: +86-755-27521011 [Http://www.sz-ctc.org.cn](http://www.sz-ctc.org.cn)

Main RF module appendix for LTE Band 13

**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

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)	4
1.3.	Appendix C: 26dB Bandwidth and Occupied Bandwidth	11
1.4.	Appendix D: Band Edge	15
1.5.	Appendix E: Conducted Spurious Emission	21
1.6.	Appendix F: Frequency Stability	37

1 Summary of Test Results Data and Graph

1.1. Appendix A: Conducted Power Output Data

Test Result

LTE Band 13				Actual output Power (dBm)		
Band-width	Modulation	RB allocation	RB offset	Low	Middle	High
5	QPSK	1	Low	23.07	23.38	23.14
			Middle	22.97	23.35	22.94
			High	23.02	23.30	23.03
		12	Low	21.66	21.89	21.47
			Middle	21.64	21.94	21.40
			High	21.61	21.81	21.37
	25	/	21.58	21.53	20.89	
	16QAM	1	Low	22.79	23.03	22.75
			Middle	22.76	22.96	22.53
			High	22.69	22.95	22.66
		12	Low	21.01	21.22	20.94
			Middle	20.98	21.16	20.73
High			20.92	21.15	20.85	
25	/	20.70	20.95	20.56		
10	QPSK	1	Low	/	23.46	/
			Middle	/	23.43	/
			High	/	23.37	/
		25	Low	/	21.96	/
			Middle	/	22.01	/
			High	/	21.88	/
	50	/	/	21.60	/	
	16QAM	1	Low	/	22.83	/
			Middle	/	22.77	/
			High	/	22.76	/
		25	Low	/	21.04	/
			Middle	/	20.98	/
			High	/	20.97	/
		50	/	/	20.77	/

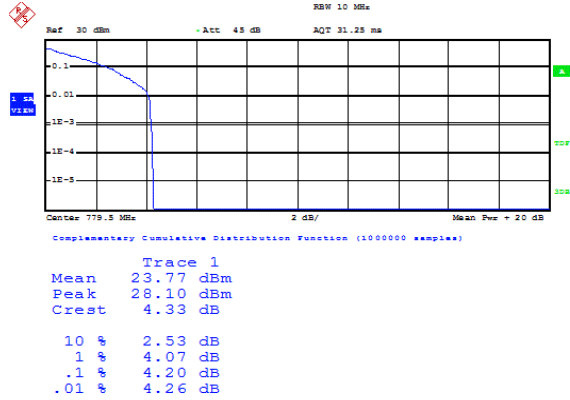
1.2. Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	4.20	13	PASS
Band13	5MHz	QPSK	23205	25RB#0	5.10	13	PASS
Band13	5MHz	QPSK	23230	1RB#0	4.42	13	PASS
Band13	5MHz	QPSK	23230	25RB#0	5.13	13	PASS
Band13	5MHz	QPSK	23255	1RB#0	4.49	13	PASS
Band13	5MHz	QPSK	23255	25RB#0	5.16	13	PASS
Band13	5MHz	16QAM	23205	1RB#0	5.13	13	PASS
Band13	5MHz	16QAM	23205	25RB#0	5.96	13	PASS
Band13	5MHz	16QAM	23230	1RB#0	5.26	13	PASS
Band13	5MHz	16QAM	23230	25RB#0	5.99	13	PASS
Band13	5MHz	16QAM	23255	1RB#0	5.38	13	PASS
Band13	5MHz	16QAM	23255	25RB#0	6.03	13	PASS
Band13	10MHz	QPSK	23230	1RB#0	4.29	13	PASS
Band13	10MHz	QPSK	23230	50RB#0	5.06	13	PASS
Band13	10MHz	16QAM	23230	1RB#0	5.26	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	6.12	13	PASS

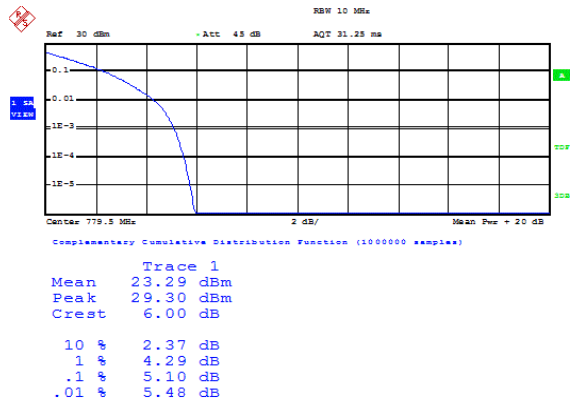
Test Graphs

Band13-5MHz-QPSK-23205-1RB#0



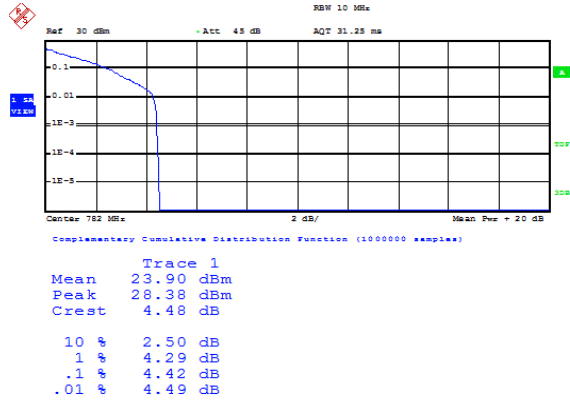
Date: 20.OCT.2020 19:45:17

Band13-5MHz-QPSK-23205-25RB#0



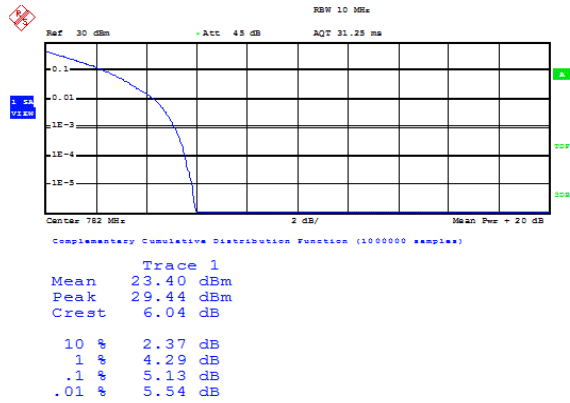
Date: 20.OCT.2020 19:45:25

Band13-5MHz-QPSK-23230-1RB#0



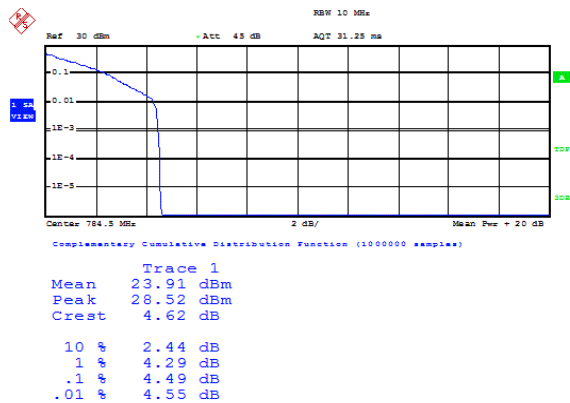
Date: 30.OCT.2020 19:45:55

Band13-5MHz-QPSK-23230-25RB#0



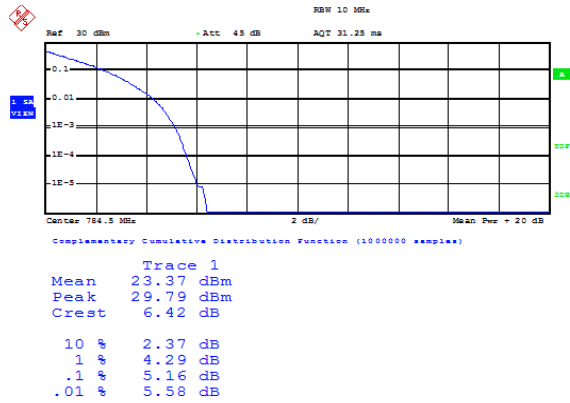
Date: 30.OCT.2020 19:46:13

Band13-5MHz-QPSK-23255-1RB#0



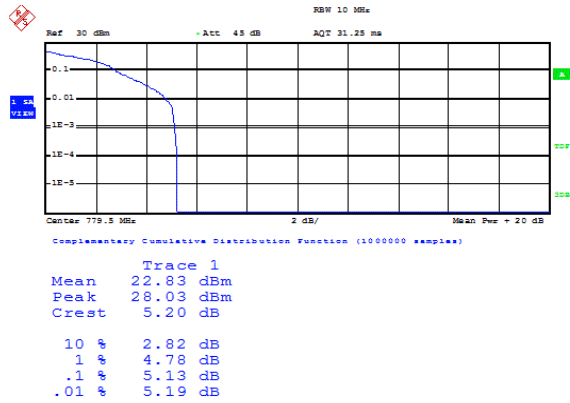
Date: 30.OCT.2020 19:46:33

Band13-5MHz-QPSK-23255-25RB#0



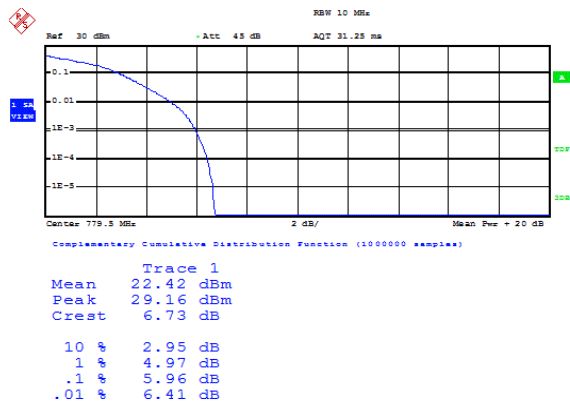
Date: 30.OCT.2020 19:46:51

Band13-5MHz-16QAM-23205-1RB#0



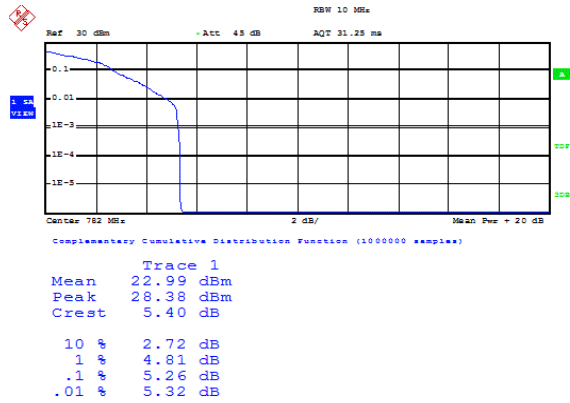
Date: 30.OCT.2020 19:45:26

Band13-5MHz-16QAM-23205-25RB#0



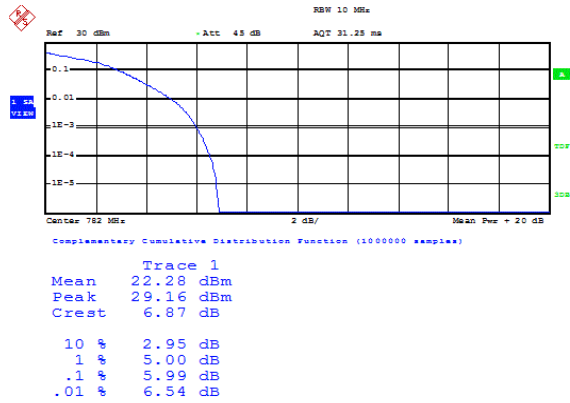
Date: 30.OCT.2020 19:45:44

Band13-5MHz-16QAM-23230-1RB#0



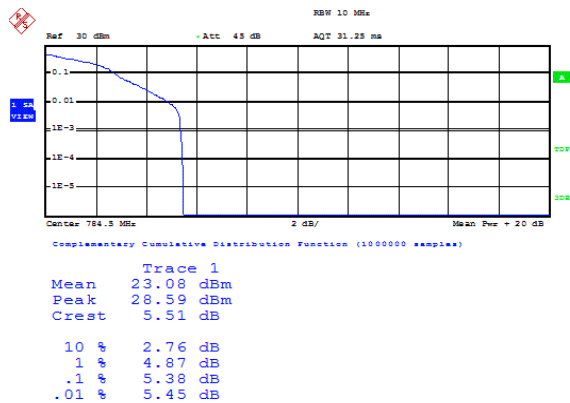
Date: 30.OCT.2020 19:46:04

Band13-5MHz-16QAM-23230-25RB#0



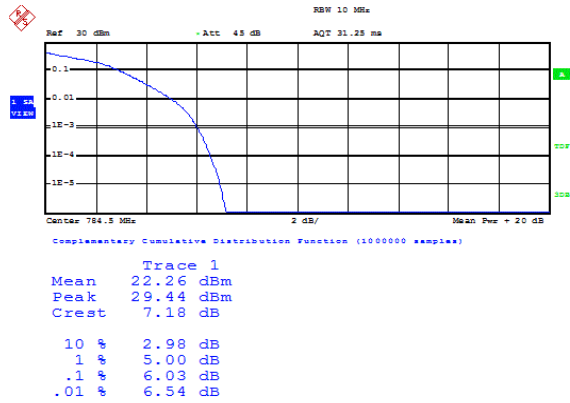
Date: 30.OCT.2020 19:46:22

Band13-5MHz-16QAM-23255-1RB#0



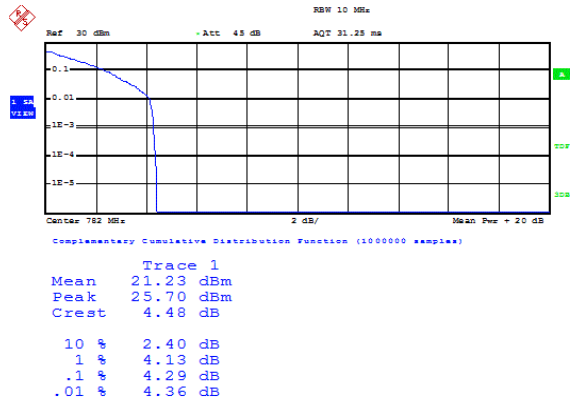
Date: 30.OCT.2020 19:46:42

Band13-5MHz-16QAM-23255-25RB#0



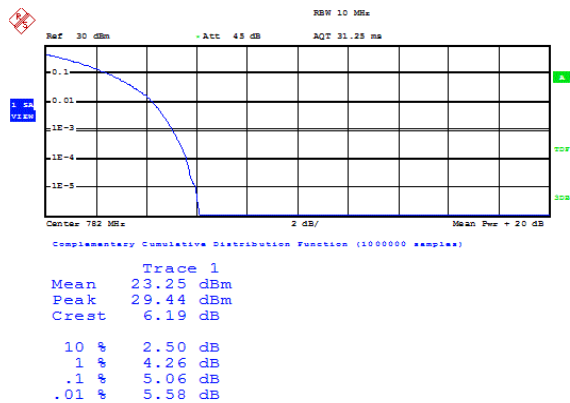
Date: 30.OCT.2020 19:46:59

Band13-10MHz-QPSK-23230-1RB#0



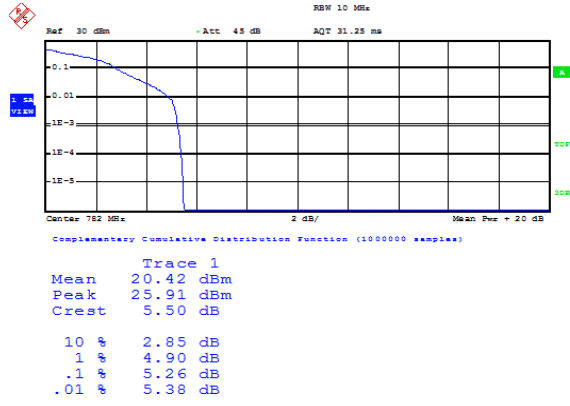
Date: 30.OCT.2020 20:02:30

Band13-10MHz-QPSK-23230-50RB#0



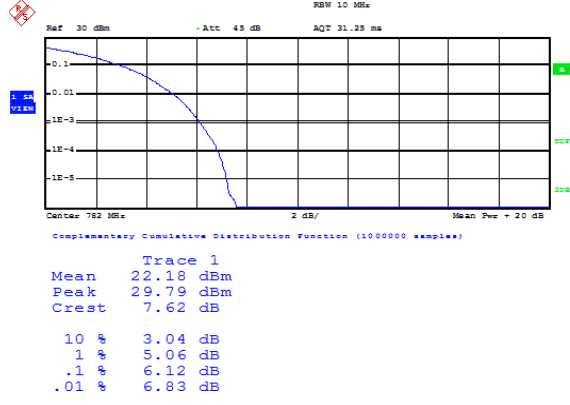
Date: 30.OCT.2020 20:02:48

Band13-10MHz-16QAM-23230-1RB#0



Date: 30.OCT.2020 20:02:39

Band13-10MHz-16QAM-23230-50RB#0



Date: 30.OCT.2020 20:02:57

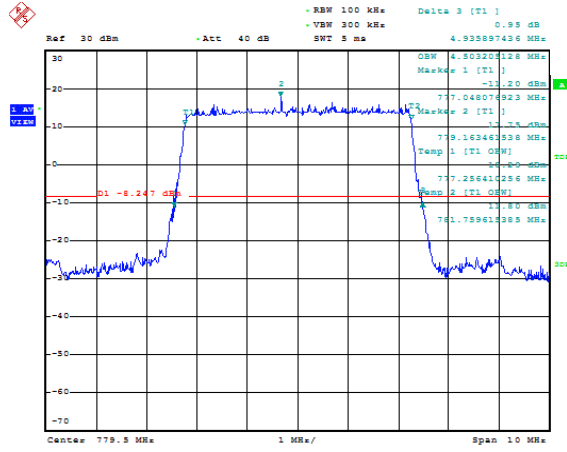
1.3. Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

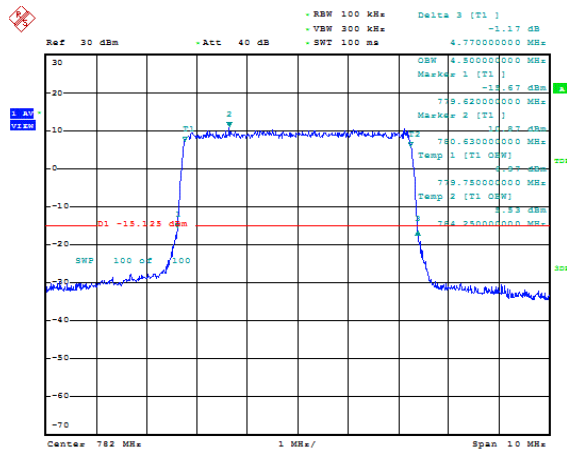
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.503	4.936	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.5	4.770	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.5	4.800	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.5	4.820	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.51	4.790	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.51	4.790	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.967	9.633	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.967	9.633	PASS

Test Graphs

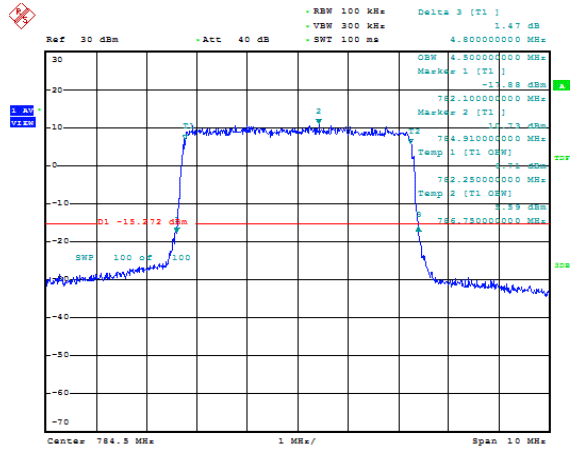
Band13-5MHz-QPSK-23205-25RB#0-4.503



Band13-5MHz-QPSK-23230-25RB#0-4.5

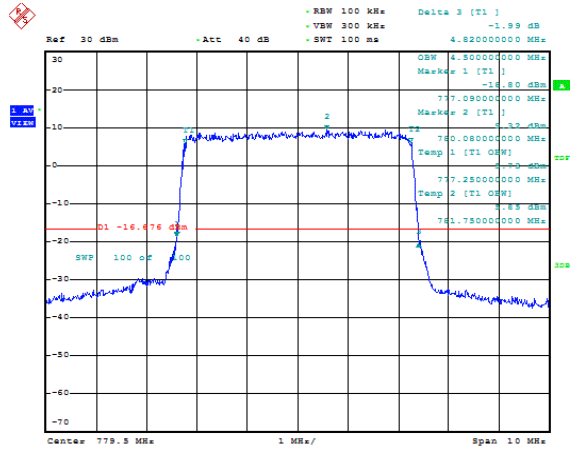


Band13-5MHz-QPSK-23255-25RB#0-4.5



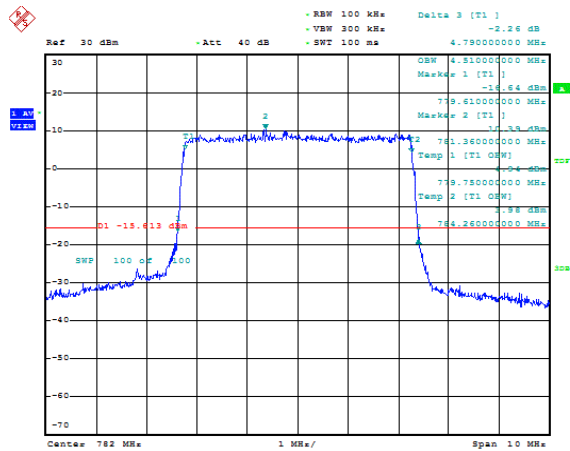
Date: 30.OCT.2020 19:34:10

Band13-5MHz-16QAM-23205-25RB#0-4.5



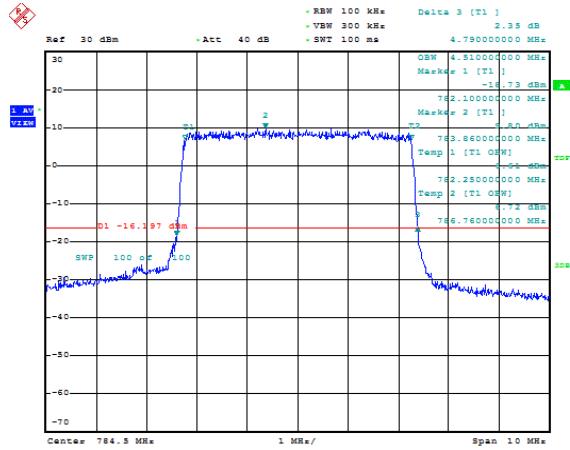
Date: 30.OCT.2020 19:33:14

Band13-5MHz-16QAM-23230-25RB#0-4.51



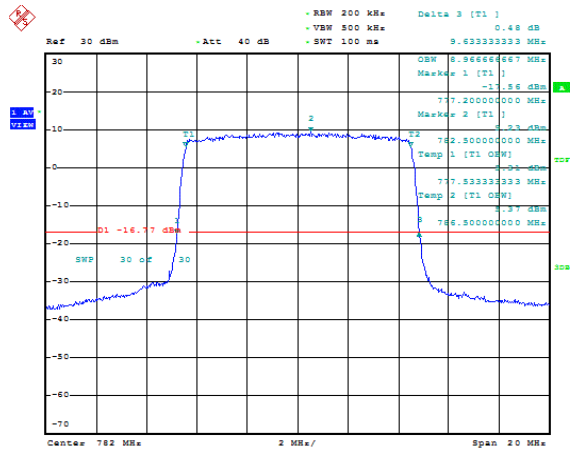
Date: 30.OCT.2020 19:33:51

Band13-5MHz-16QAM-23255-25RB#0-4.51



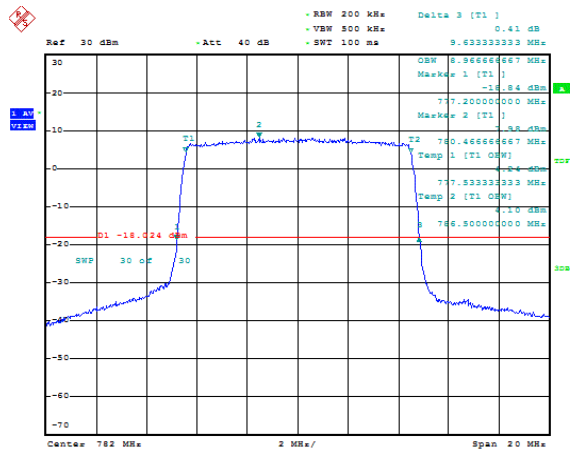
Date: 30.OCT.2020 19:34:28

Band13-10MHz-QPSK-23230-50RB#0-8.967



Date: 30.OCT.2020 19:51:58

Band13-10MHz-16QAM-23230-50RB#0-8.967



Date: 30.OCT.2020 19:52:08

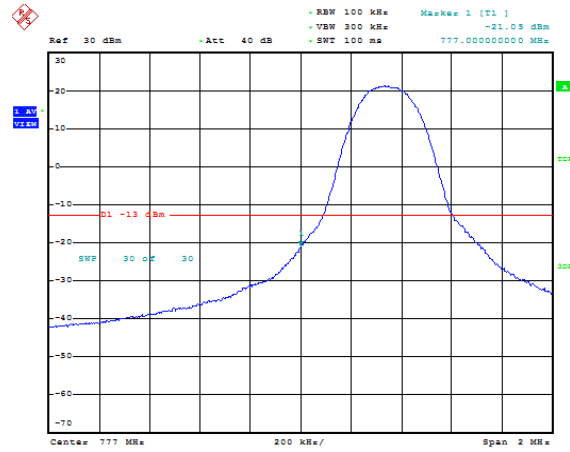
1.4. Appendix D: Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	-21.05	PASS
Band13	5MHz	QPSK	23205	1RB#24	-49.03	PASS
Band13	5MHz	QPSK	23205	25RB#0	-27.91	PASS
Band13	5MHz	QPSK	23255	1RB#0	-49.48	PASS
Band13	5MHz	QPSK	23255	1RB#24	-20.17	PASS
Band13	5MHz	QPSK	23255	25RB#0	-28.15	PASS
Band13	5MHz	16QAM	23205	1RB#0	-22.14	PASS
Band13	5MHz	16QAM	23205	1RB#24	-49.20	PASS
Band13	5MHz	16QAM	23205	25RB#0	-29.16	PASS
Band13	5MHz	16QAM	23255	1RB#0	-49.65	PASS
Band13	5MHz	16QAM	23255	1RB#24	-20.10	PASS
Band13	5MHz	16QAM	23255	25RB#0	-29.30	PASS

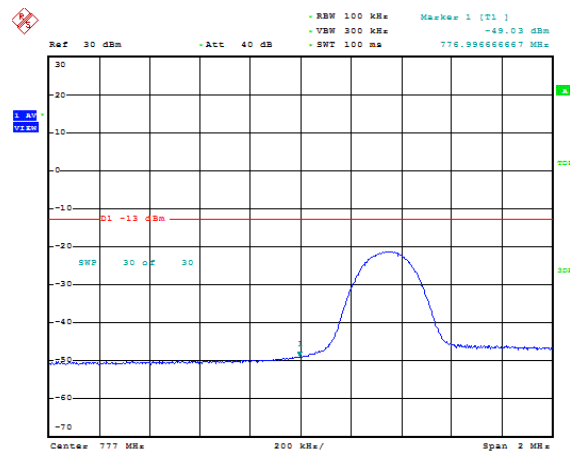
Test Graphs

Band13-5MHz-QPSK-23205-1RB#0



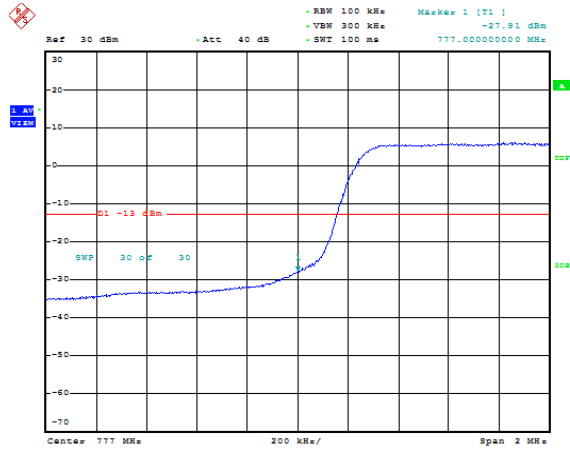
Date: 30.OCT.2020 19:34:44

Band13-5MHz-QPSK-23205-1RB#24



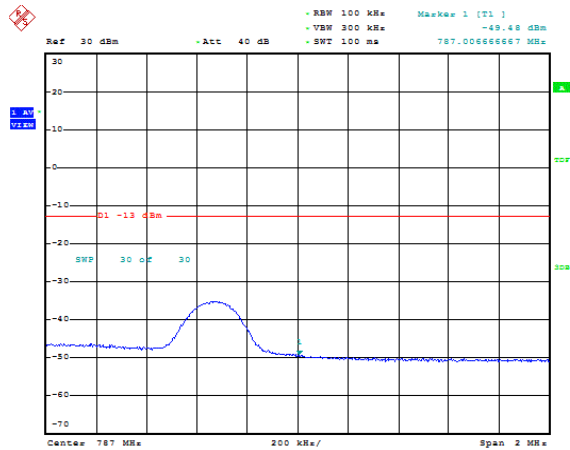
Date: 30.OCT.2020 19:35:02

Band13-5MHz-QPSK-23205-25RB#0



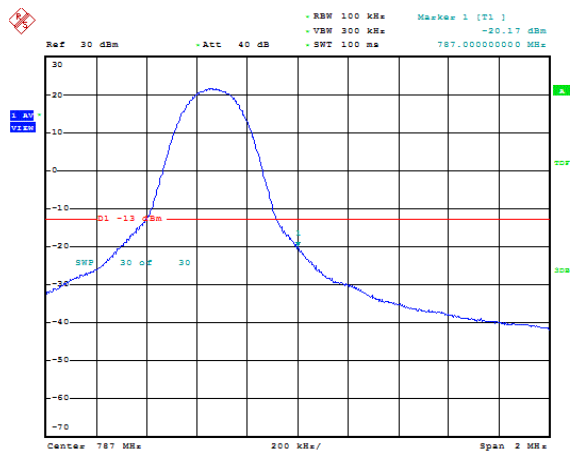
Date: 30.OCT.2020 19:35:22

Band13-5MHz-QPSK-23255-1RB#0



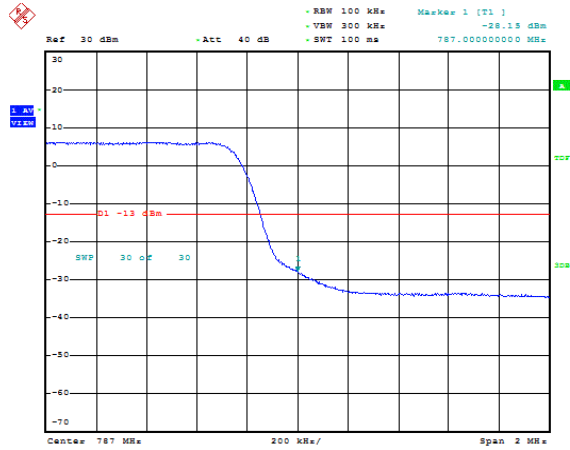
Date: 30.OCT.2020 19:35:55

Band13-5MHz-QPSK-23255-1RB#24



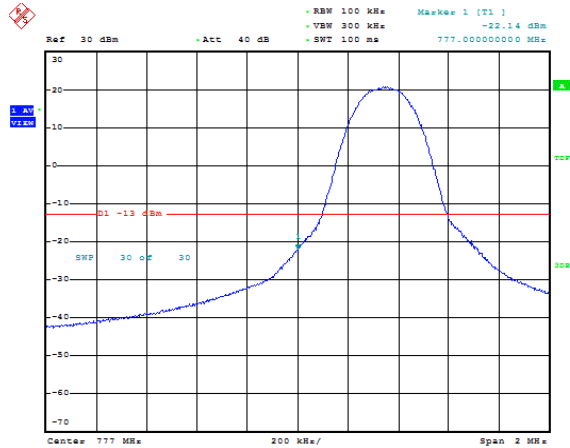
Date: 30.OCT.2020 19:36:14

Band13-5MHz-QPSK-23255-25RB#0



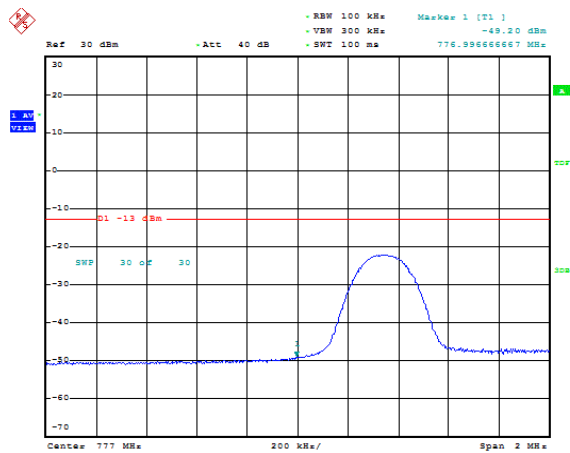
Date: 30.OCT.2020 19:36:24

Band13-5MHz-16QAM-23205-1RB#0



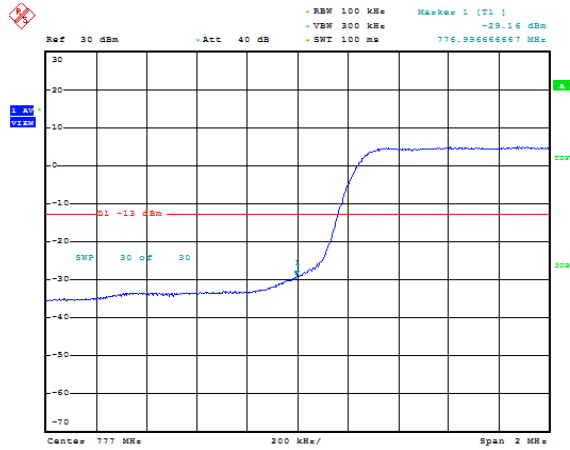
Date: 30.OCT.2020 19:34:53

Band13-5MHz-16QAM-23205-1RB#24



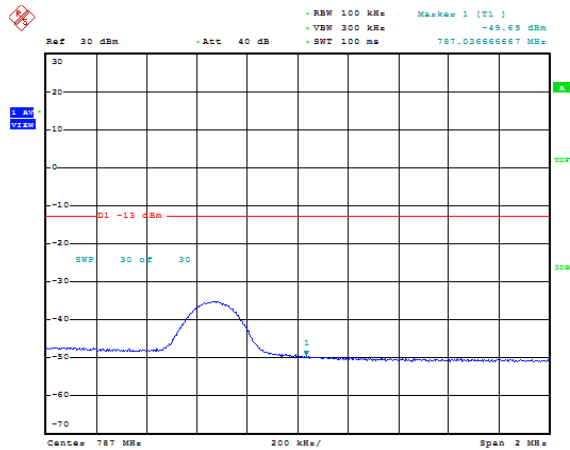
Date: 30.OCT.2020 19:35:13

Band13-5MHz-16QAM-23205-25RB#0



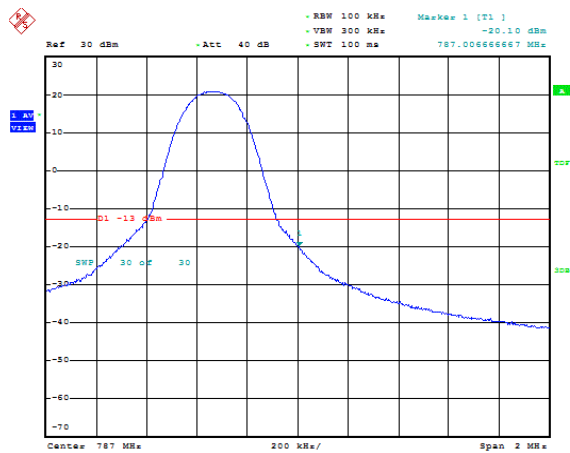
Date: 30.OCT.2020 19:35:32

Band13-5MHz-16QAM-23255-1RB#0



Date: 30.OCT.2020 19:36:05

Band13-5MHz-16QAM-23255-1RB#24



Date: 30.OCT.2020 19:36:24

Band13-5MHz-16QAM-23255-25RB#0

1.5. Appendix E: Conducted Spurious Emission

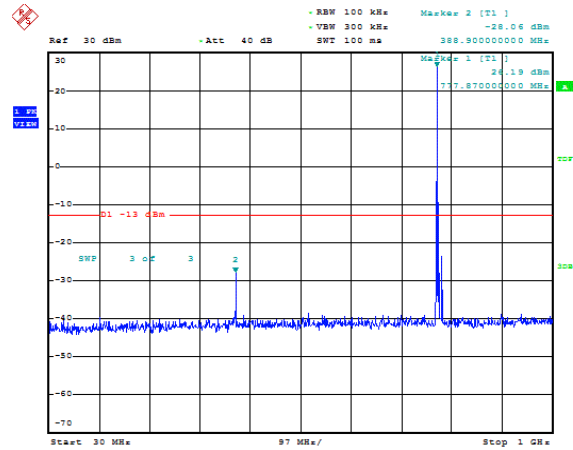
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	Range1:30~1000MHz	-28.06	PASS
Band13	5MHz	QPSK	23205	1RB#0	Range3:763~775MHz	-51.82	PASS
Band13	5MHz	QPSK	23205	1RB#0	Range4:793~805MHz	-72.69	PASS
Band13	5MHz	QPSK	23205	1RB#0	Range2:1000~10000MHz	-34.07	PASS
Band13	5MHz	QPSK	23205	1RB#0	Range5:1559~1610MHz	-52.14	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range1:30~1000MHz	-26.66	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range3:763~775MHz	-57.65	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range4:793~805MHz	-72.55	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range2:1000~10000MHz	-33.8	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range5:1559~1610MHz	-36.45	FAIL
Band13	5MHz	QPSK	23255	1RB#0	Range1:30~1000MHz	-26.27	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range3:763~775MHz	-56.89	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range4:793~805MHz	-72.17	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range2:1000~10000MHz	-33.56	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range5:1559~1610MHz	-36.84	FAIL
Band13	5MHz	16QAM	23205	1RB#0	Range1:30~1000MHz	-28.15	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range3:763~775MHz	-52.16	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range4:793~805MHz	-72.16	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range2:1000~10000MHz	-33.87	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range5:1559~1610MHz	-52.37	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range1:30~1000MHz	-26.4	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range3:763~775MHz	-59.58	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range4:793~805MHz	-72.03	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range2:1000~10000MHz	-34.82	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range5:1559~1610MHz	-36.5	FAIL
Band13	5MHz	16QAM	23255	1RB#0	Range1:30~1000MHz	-26.53	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range3:763~775MHz	-57.52	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range4:793~805MHz	-71.23	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range2:1000~10000MHz	-33.83	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range5:1559~1610MHz	-36.52	FAIL
Band13	10MHz	QPSK	23230	1RB#0	Range1:30~1000MHz	-27.2	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range3:763~775MHz	-51.95	PASS

Band13	10MHz	QPSK	23230	1RB#0	Range4:793~805MHz	-49.17	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range2:1000~10000MHz	-33.89	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range5:1559~1610MHz	-52.31	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range1:30~1000MHz	-28.61	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range3:763~775MHz	-49.16	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range4:793~805MHz	-49.52	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range2:1000~10000MHz	-33.56	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range5:1559~1610MHz	-51.77	PASS

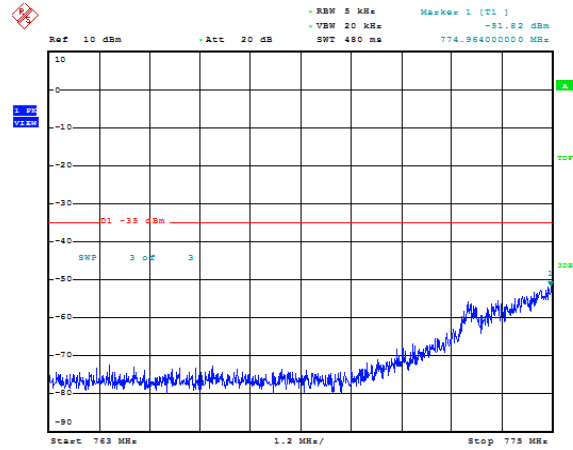
Test Graphs

Band13-5MHz-QPSK-23205-1RB#0-Range1:30~1000MHz



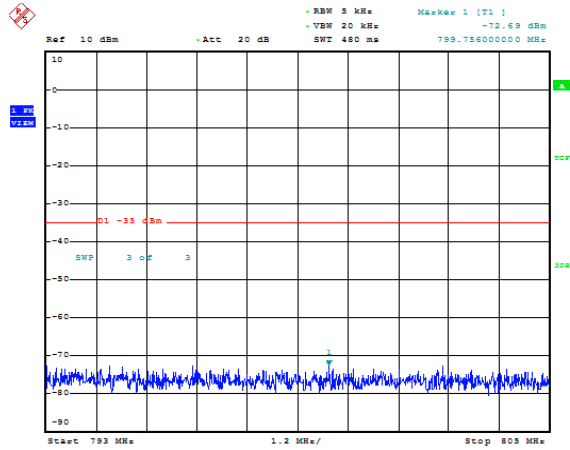
Date: 30.OCT.2020 19:36:55

Band13-5MHz-QPSK-23205-1RB#0-Range3:763~775MHz



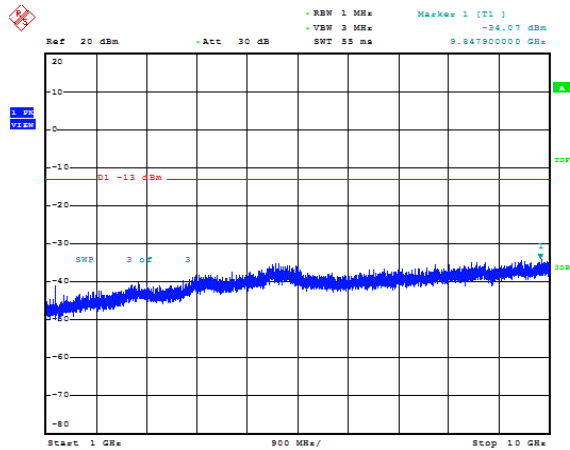
Date: 30.OCT.2020 19:37:09

Band13-5MHz-QPSK-23205-1RB#0-Range4:793~805MHz



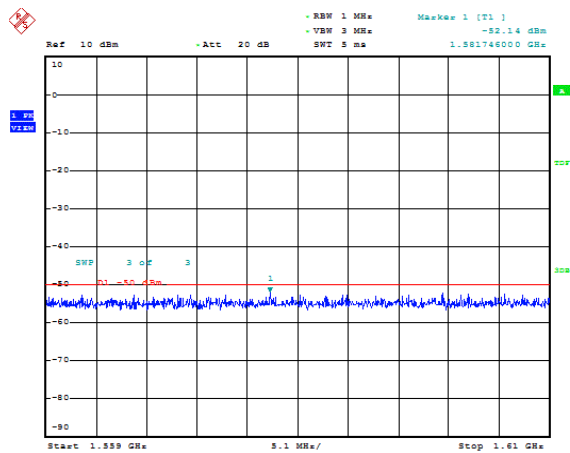
Date: 30.OCT.2020 19:37:15

Band13-5MHz-QPSK-23205-1RB#0-Range2:1000~10000MHz



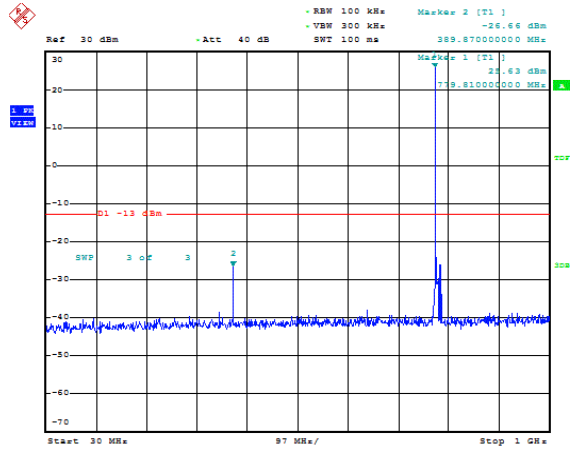
Date: 30.OCT.2020 19:37:03

Band13-5MHz-QPSK-23205-1RB#0-Range5:1559~1610MHz



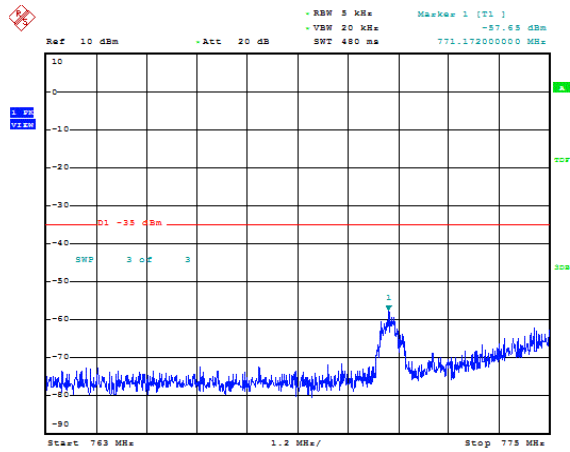
Date: 30.OCT.2020 19:37:20

Band13-5MHz-QPSK-23230-1RB#0-Range1:30~1000MHz



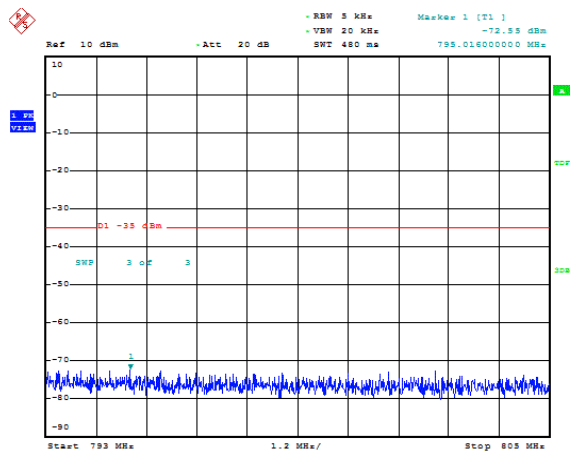
Date: 30.OCT.2020 19:38:06

Band13-5MHz-QPSK-23230-1RB#0-Range3:763~775MHz



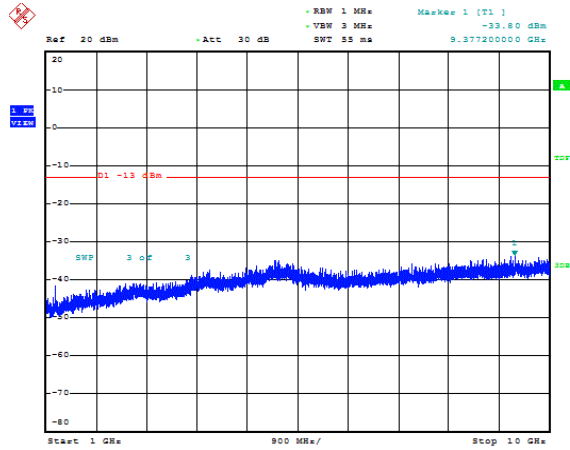
Date: 30.OCT.2020 19:38:20

Band13-5MHz-QPSK-23230-1RB#0-Range4:793~805MHz



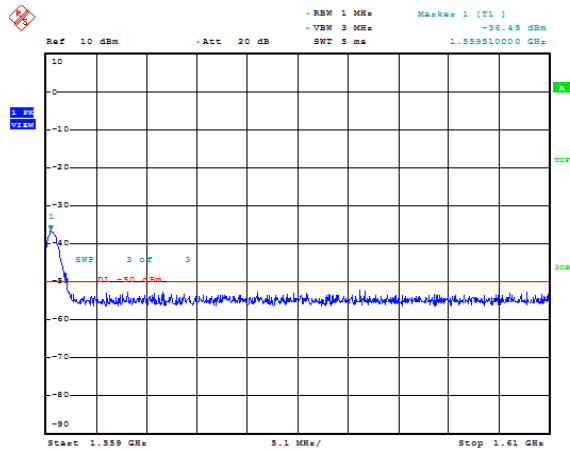
Date: 30.OCT.2020 19:38:26

Band13-5MHz-QPSK-23230-1RB#0-Range2:1000~10000MHz



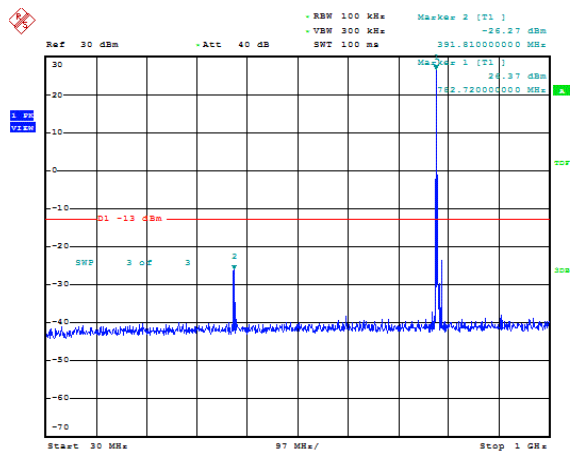
Date: 30.OCT.2020 19:38:14

Band13-5MHz-QPSK-23230-1RB#0-Range5:1559~1610MHz



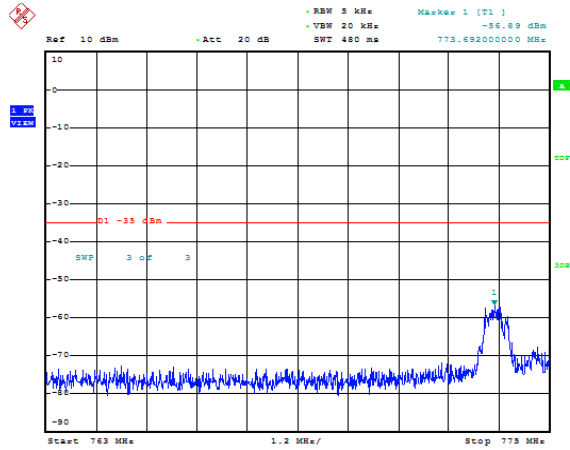
Date: 30.OCT.2020 19:38:31

Band13-5MHz-QPSK-23255-1RB#0-Range1:30~1000MHz



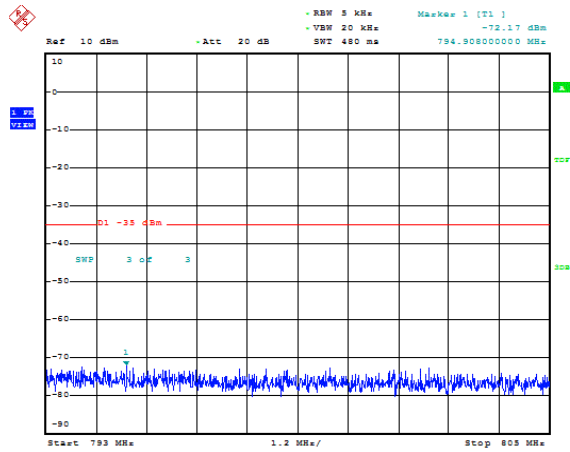
Date: 30.OCT.2020 19:39:17

Band13-5MHz-QPSK-23255-1RB#0-Range3:763~775MHz



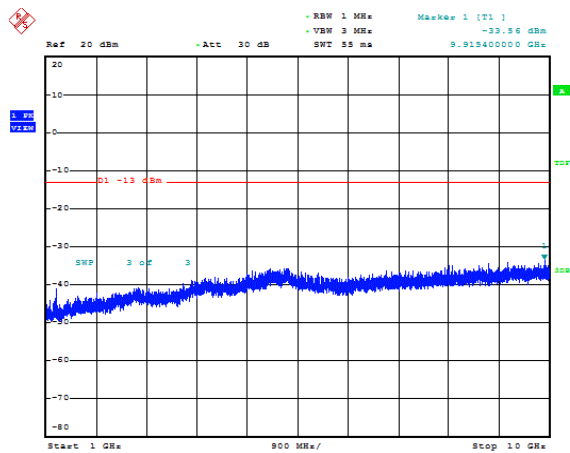
Date: 30.OCT.2020 19:39:21

Band13-5MHz-QPSK-23255-1RB#0-Range4:793~805MHz



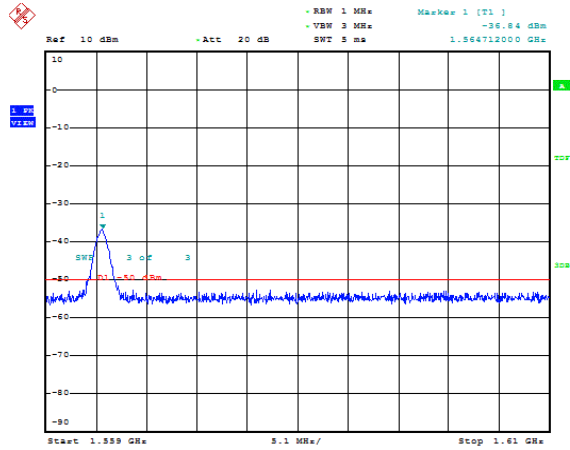
Date: 30.OCT.2020 19:39:27

Band13-5MHz-QPSK-23255-1RB#0-Range2:1000~10000MHz



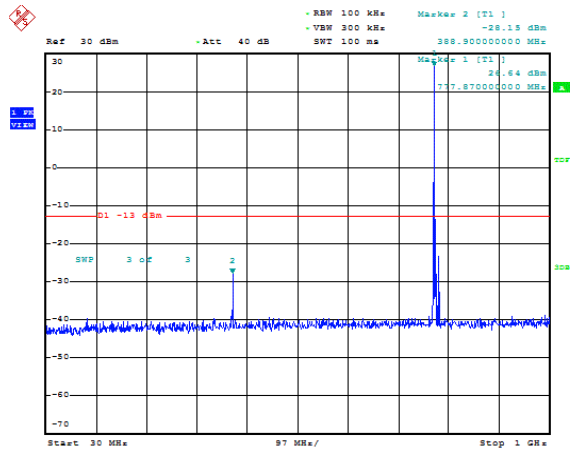
Date: 30.OCT.2020 19:39:25

Band13-5MHz-QPSK-23255-1RB#0-Range5:1559~1610MHz



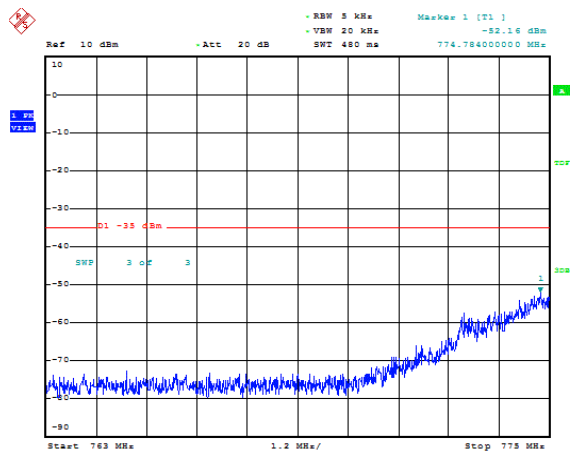
Date: 30.OCT.2020 19:39:42

Band13-5MHz-16QAM-23205-1RB#0-Range1:30~1000MHz



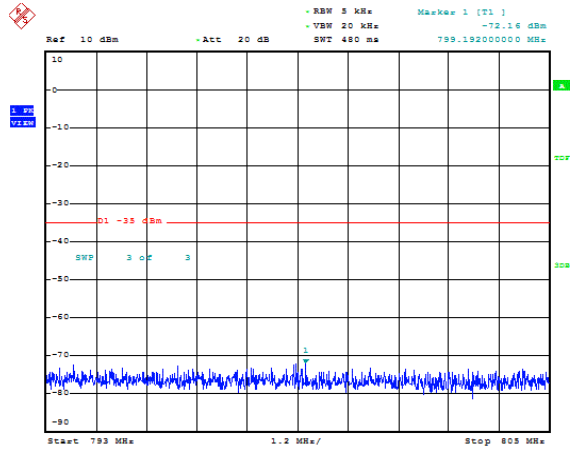
Date: 30.OCT.2020 19:37:30

Band13-5MHz-16QAM-23205-1RB#0-Range3:763~775MHz



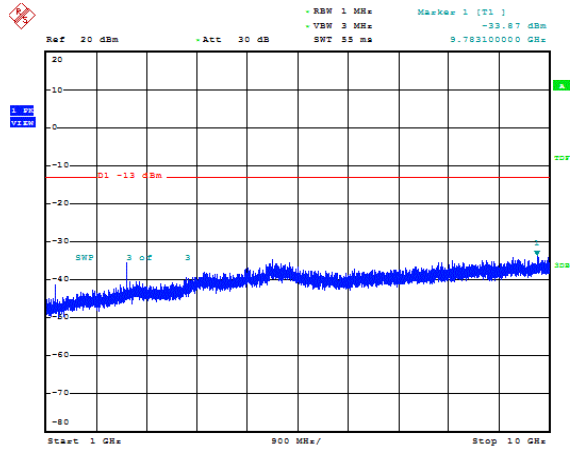
Date: 30.OCT.2020 19:37:43

Band13-5MHz-16QAM-23205-1RB#0-Range4:793~805MHz



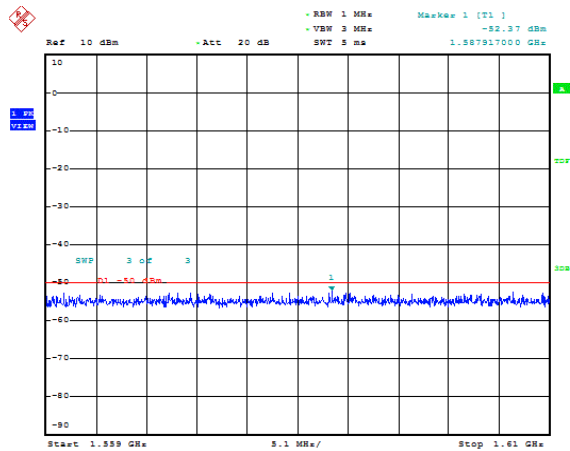
Date: 30.OCT.2020 19:37:49

Band13-5MHz-16QAM-23205-1RB#0-Range2:1000~10000MHz



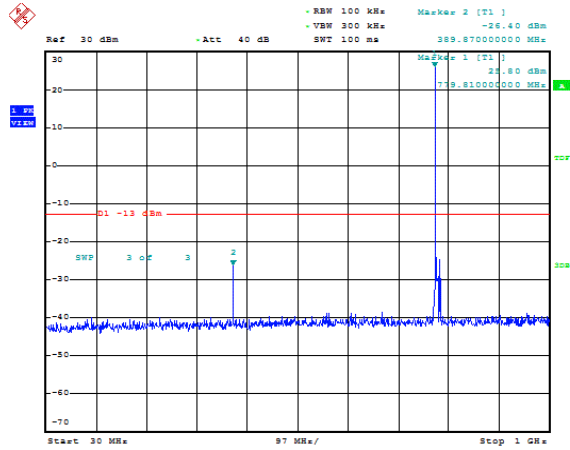
Date: 30.OCT.2020 19:37:38

Band13-5MHz-16QAM-23205-1RB#0-Range5:1559~1610MHz



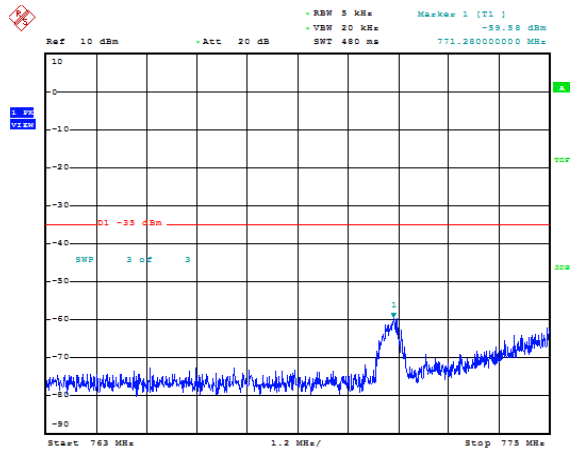
Date: 30.OCT.2020 19:37:55

Band13-5MHz-16QAM-23230-1RB#0-Range1:30~1000MHz



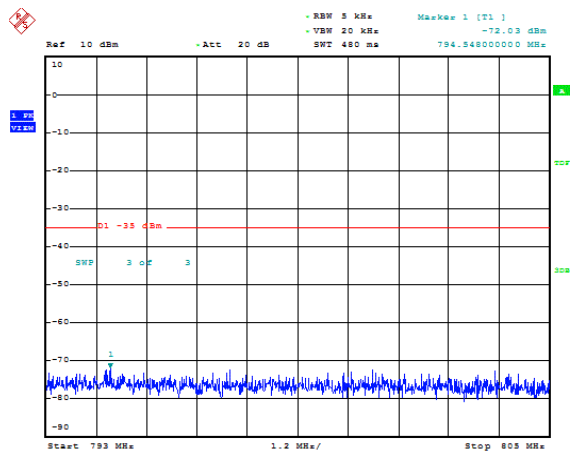
Date: 30.OCT.2020 19:38:41

Band13-5MHz-16QAM-23230-1RB#0-Range3:763~775MHz



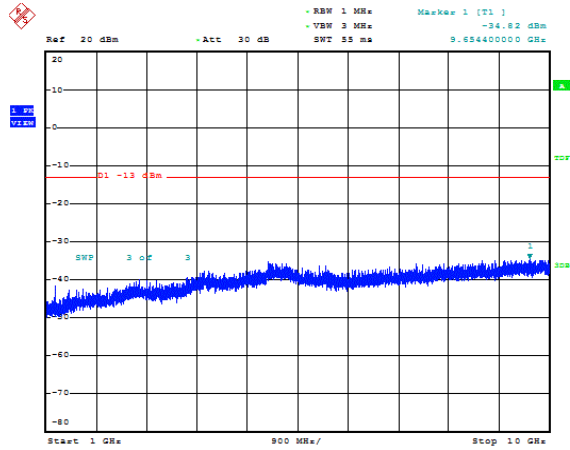
Date: 30.OCT.2020 19:38:54

Band13-5MHz-16QAM-23230-1RB#0-Range4:793~805MHz



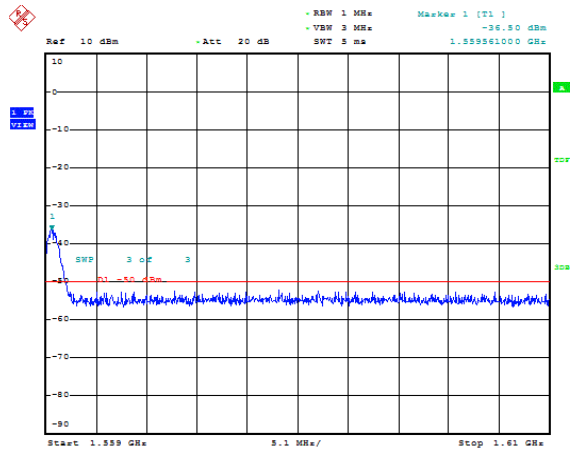
Date: 30.OCT.2020 19:39:00

Band13-5MHz-16QAM-23230-1RB#0-Range2:1000~10000MHz



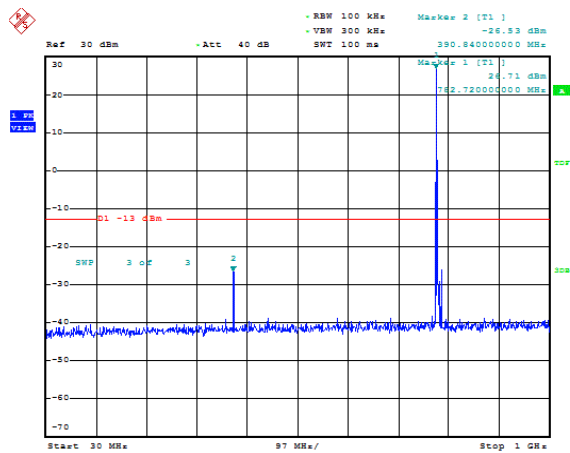
Date: 30.OCT.2020 19:38:49

Band13-5MHz-16QAM-23230-1RB#0-Range5:1559~1610MHz



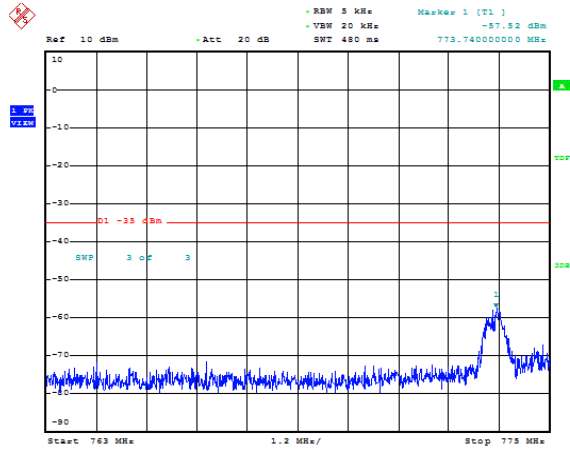
Date: 30.OCT.2020 19:39:05

Band13-5MHz-16QAM-23255-1RB#0-Range1:30~1000MHz



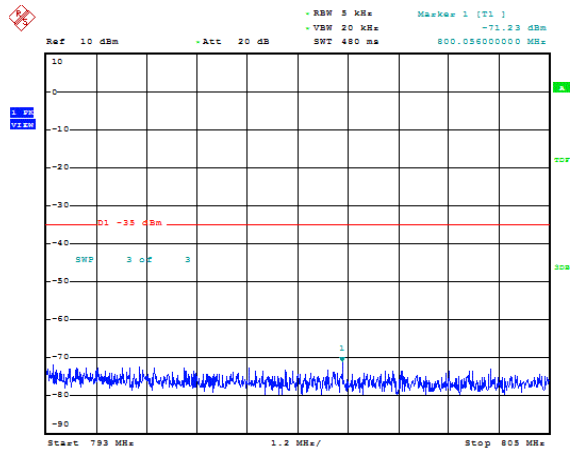
Date: 30.OCT.2020 19:39:51

Band13-5MHz-16QAM-23255-1RB#0-Range3:763~775MHz



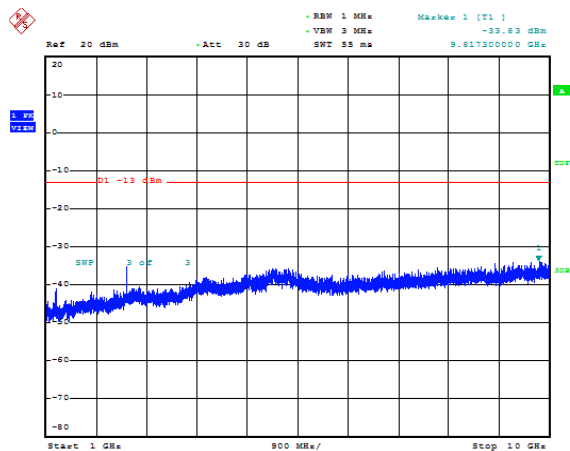
Date: 30.OCT.2020 19:40:05

Band13-5MHz-16QAM-23255-1RB#0-Range4:793~805MHz



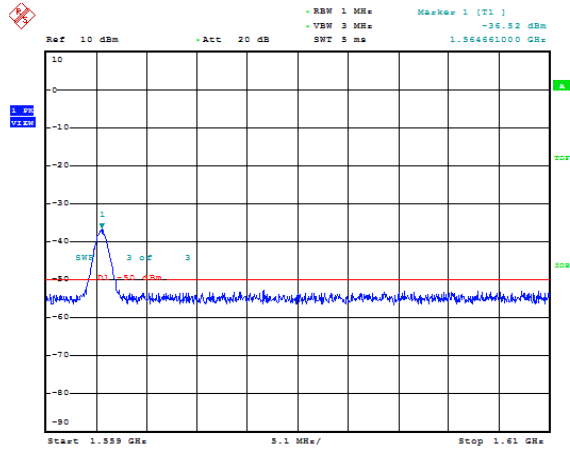
Date: 30.OCT.2020 19:40:11

Band13-5MHz-16QAM-23255-1RB#0-Range2:1000~10000MHz



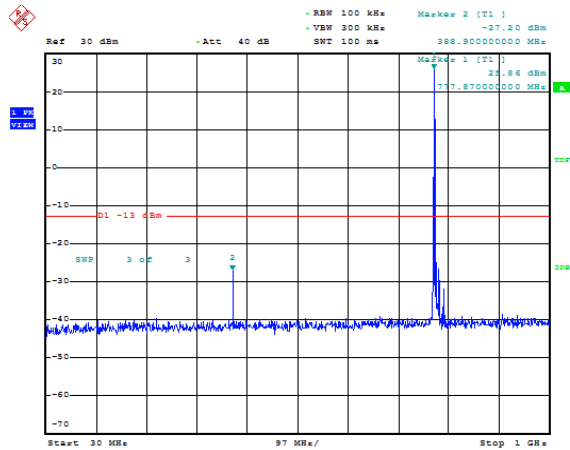
Date: 30.OCT.2020 19:39:59

Band13-5MHz-16QAM-23255-1RB#0-Range5:1559~1610MHz



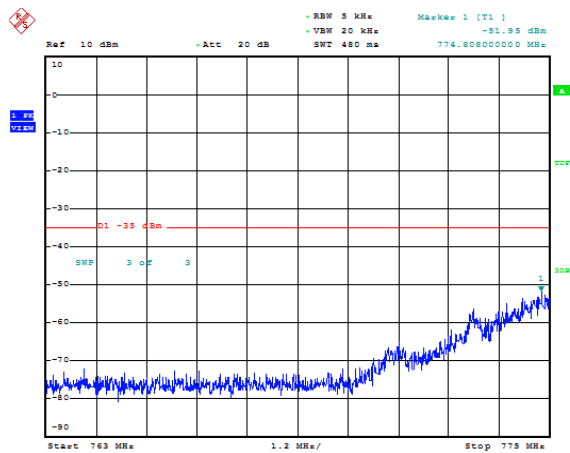
Date: 30.OCT.2020 19:40:16

Band13-10MHz-QPSK-23230-1RB#0-Range1:30~1000MHz



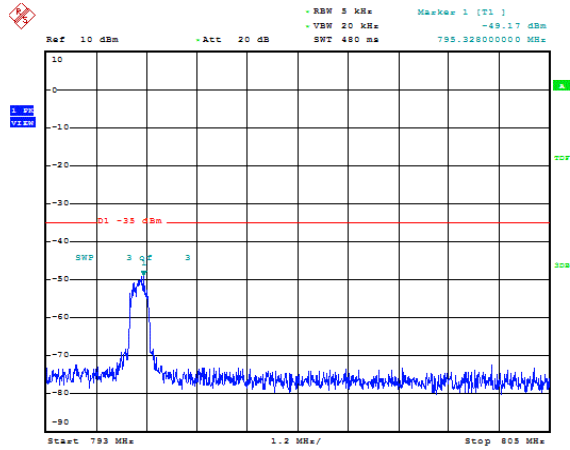
Date: 30.OCT.2020 19:55:12

Band13-10MHz-QPSK-23230-1RB#0-Range3:763~775MHz



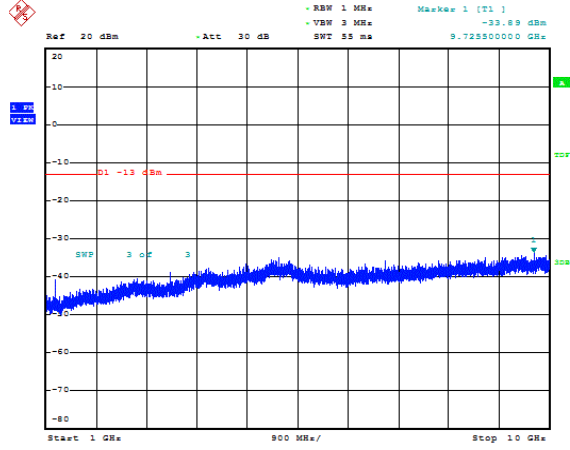
Date: 30.OCT.2020 19:55:26

Band13-10MHz-QPSK-23230-1RB#0-Range4:793~805MHz



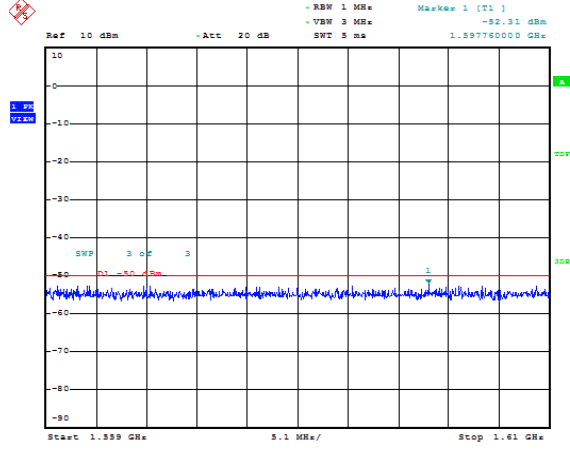
Date: 30.OCT.2020 19:55:21

Band13-10MHz-QPSK-23230-1RB#0-Range2:1000~10000MHz



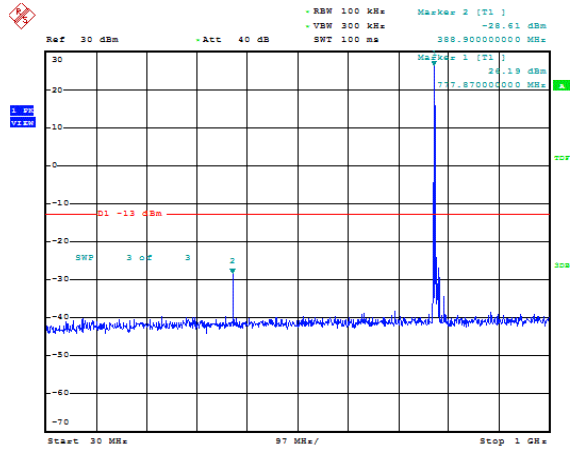
Date: 30.OCT.2020 19:55:20

Band13-10MHz-QPSK-23230-1RB#0-Range5:1559~1610MHz



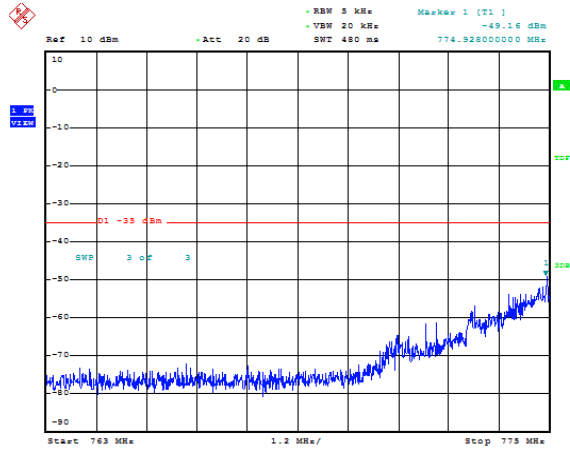
Date: 30.OCT.2020 19:55:27

Band13-10MHz-16QAM-23230-1RB#0-Range1:30~1000MHz



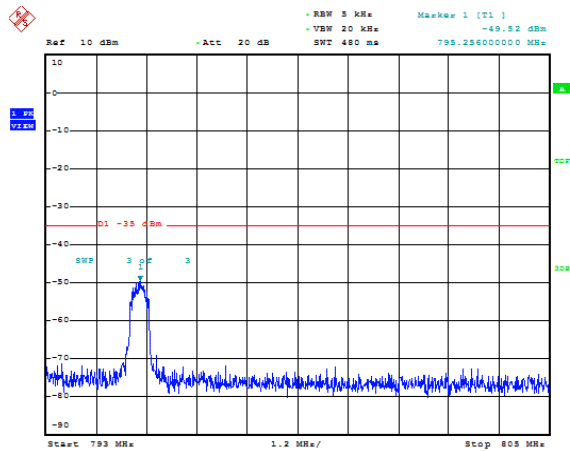
Date: 30.OCT.2020 19:55:46

Band13-10MHz-16QAM-23230-1RB#0-Range3:763~775MHz



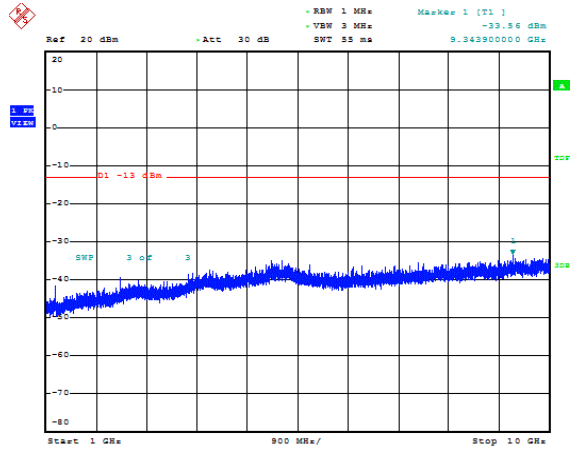
Date: 30.OCT.2020 19:56:00

Band13-10MHz-16QAM-23230-1RB#0-Range4:793~805MHz



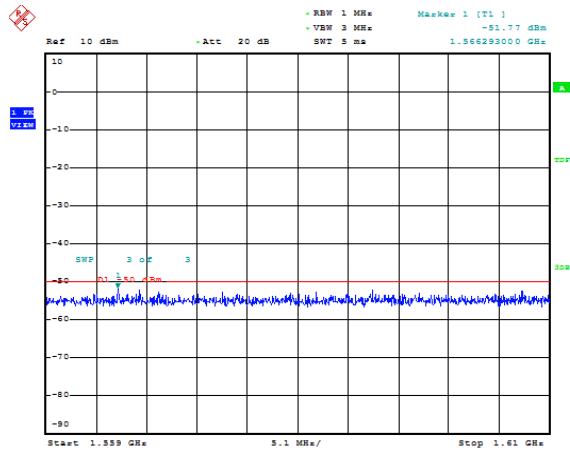
Date: 30.OCT.2020 19:56:06

Band13-10MHz-16QAM-23230-1RB#0-Range2:1000~10000MHz



Date: 30.OCT.2020 19:55:54

Band13-10MHz-16QAM-23230-1RB#0-Range5:1559~1610MHz



Date: 30.OCT.2020 19:56:11

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
Band13	5MHz	QPSK	23205	25RB#0	VL	NT	2.16	0.002771	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	VN	NT	1.83	0.002348	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	VH	NT	-2.05	-0.002630	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	VL	NT	-2.06	-0.002634	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	VN	NT	1.90	0.002430	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	VH	NT	1.97	0.002519	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	VL	NT	-2.40	-0.003059	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	VN	NT	3.23	0.004117	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	VH	NT	-3.09	-0.003939	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	VL	NT	-1.13	-0.001450	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	VN	NT	2.02	0.002591	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	VH	NT	2.39	0.003066	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	VL	NT	3.28	0.004194	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	VN	NT	-2.60	-0.003325	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	VH	NT	3.40	0.004348	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	VL	NT	2.02	0.002575	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	VN	NT	2.16	0.002753	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	VH	NT	-1.14	-0.001453	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	VL	NT	-1.37	-0.001752	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	VN	NT	-1.63	-0.002084	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	VH	NT	-2.47	-0.003159	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	VL	NT	-2.27	-0.002903	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	VN	NT	-1.53	-0.001957	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	VH	NT	-3.82	-0.004885	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	NV	-10	2.86	0.003669	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	0	1.07	0.001373	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	10	2.39	0.003066	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	20	1.93	0.002476	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	30	1.83	0.002348	±2.5	PASS

Band13	5MHz	QPSK	23205	25RB#0	NV	40	2.37	0.003040	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	50	2.52	0.003233	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	-10	1.37	0.001752	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	0	1.99	0.002545	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	10	-2.03	-0.002596	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	20	2.13	0.002724	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	30	2.00	0.002558	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	40	2.03	0.002596	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	50	-1.27	-0.001624	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	-10	-1.62	-0.002065	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	0	1.56	0.001989	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	10	-2.13	-0.002715	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	20	-2.62	-0.003340	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	30	-1.93	-0.002460	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	40	1.89	0.002409	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	50	-1.90	-0.002422	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	-10	1.86	0.002386	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	0	-2.19	-0.002809	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	10	-1.30	-0.001668	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	20	-2.63	-0.003374	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	30	-2.69	-0.003451	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	40	-1.65	-0.002117	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	50	-4.22	-0.005414	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	-10	1.86	0.002379	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	0	1.37	0.001752	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	10	1.87	0.002391	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	20	1.57	0.002008	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	30	-1.06	-0.001355	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	40	-1.85	-0.002366	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	50	1.82	0.002327	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	-10	2.75	0.003505	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	0	-1.53	-0.001950	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	10	1.67	0.002129	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	20	1.70	0.002167	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	30	2.56	0.003263	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	40	2.02	0.002575	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	50	-1.49	-0.001899	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-10	-1.12	-0.001432	±2.5	PASS

Band13	10MHz	QPSK	23230	50RB#0	NV	0	-3.16	-0.004041	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	10	-2.05	-0.002621	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	20	-0.97	-0.001240	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	30	-2.22	-0.002839	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	40	2.36	0.003018	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	50	2.22	0.002839	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	-10	1.10	0.001407	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	0	0.94	0.001202	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	10	1.93	0.002468	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	20	0.94	0.001202	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	30	-1.67	-0.002136	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	40	-3.60	-0.004604	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	50	-2.39	-0.003056	±2.5	PASS

-----END-----