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

Main RF module appendix for LTE Band 7

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) 5
1.3. Appendix C: 26dB Bandwidth and Occupied Bandwidth 24
1.4. Appendix D: Band Edge 34
1.5. Appendix E: Conducted Spurious Emission 53
1.6. Appendix F: Frequency Stability 81

1 Summary of Test Results Data and Graph

1.1. Appendix A: Conducted Power Output Data

Test Result

LTE Band 7				Actual output Power (dBm)		
Band-width	Modulation	RB allocation	RB offset	Low	Middle	High
5	QPSK	1	Low	22.28	21.98	22.17
			Middle	22.19	21.51	21.98
			High	22.23	21.52	22.06
		12	Low	20.92	21.45	20.58
			Middle	20.90	20.86	20.51
			High	20.87	21.01	20.48
		25	/	20.84	21.10	20.02
	16QAM	1	Low	22.01	21.65	21.80
			Middle	21.98	21.15	21.59
			High	21.92	21.16	21.71
		12	Low	20.29	21.18	20.06
			Middle	20.27	20.13	19.87
			High	20.21	20.56	19.98
		25	/	19.99	20.70	19.70
10	QPSK	1	Low	22.25	22.45	22.16
			Middle	22.16	22.42	21.97
			High	22.21	22.37	22.05
		25	Low	20.90	21.02	20.56
			Middle	20.88	21.07	20.49
			High	20.85	20.94	20.46
		50	/	20.82	20.67	20.00
	16QAM	1	Low	21.98	22.11	21.78
			Middle	21.96	22.05	21.57
			High	21.89	22.04	21.70
		25	Low	20.27	20.38	20.05
			Middle	20.24	20.32	19.85
			High	20.18	20.31	19.97
		50	/	19.97	20.12	19.69

15	QPSK	1	Low	22.30	22.43	22.18
			Middle	22.21	22.40	22.00
			High	22.25	22.34	22.07
		38	Low	20.94	20.99	20.59
			Middle	20.92	21.04	20.52
			High	20.89	20.91	20.49
		75	/	20.86	20.65	20.03
	16QAM	1	Low	22.03	22.09	21.81
			Middle	22.00	22.02	21.60
			High	21.94	22.01	21.72
		38	Low	20.31	20.35	20.07
			Middle	20.29	20.29	19.88
			High	20.23	20.29	19.99
		75	/	20.01	20.09	19.71
20	QPSK	1	Low	22.37	**22.50**	22.26
			Middle	22.28	22.47	22.07
			High	22.32	22.42	22.15
		50	Low	21.00	21.06	20.66
			Middle	20.99	21.11	20.59
			High	20.96	20.98	20.56
		100	/	20.93	20.71	20.10
	16QAM	1	Low	21.80	21.90	21.65
			Middle	21.77	21.83	21.44
			High	21.71	21.83	21.57
		50	Low	20.09	20.18	19.93
			Middle	20.07	20.12	19.74
			High	20.01	20.11	19.85
		100	/	19.80	19.92	19.57

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

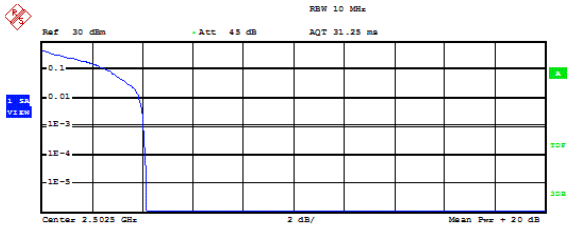
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	4.04	13	PASS
Band7	5MHz	QPSK	20775	25RB#0	5.06	13	PASS
Band7	5MHz	QPSK	21100	1RB#0	4.58	13	PASS
Band7	5MHz	QPSK	21100	25RB#0	5.32	13	PASS
Band7	5MHz	QPSK	21425	1RB#0	4.78	13	PASS
Band7	5MHz	QPSK	21425	25RB#0	5.45	13	PASS
Band7	5MHz	16QAM	20775	1RB#0	4.87	13	PASS
Band7	5MHz	16QAM	20775	25RB#0	5.83	13	PASS
Band7	5MHz	16QAM	21100	1RB#0	5.32	13	PASS
Band7	5MHz	16QAM	21100	25RB#0	6.12	13	PASS
Band7	5MHz	16QAM	21425	1RB#0	5.71	13	PASS
Band7	5MHz	16QAM	21425	25RB#0	6.35	13	PASS
Band7	10MHz	QPSK	20800	1RB#0	4.10	13	PASS
Band7	10MHz	QPSK	20800	50RB#0	5.22	13	PASS
Band7	10MHz	QPSK	21100	1RB#0	4.55	13	PASS
Band7	10MHz	QPSK	21100	50RB#0	5.26	13	PASS
Band7	10MHz	QPSK	21400	1RB#0	4.87	13	PASS
Band7	10MHz	QPSK	21400	50RB#0	5.35	13	PASS
Band7	10MHz	16QAM	20800	1RB#0	4.94	13	PASS
Band7	10MHz	16QAM	20800	50RB#0	6.22	13	PASS
Band7	10MHz	16QAM	21100	1RB#0	5.48	13	PASS
Band7	10MHz	16QAM	21100	50RB#0	6.28	13	PASS
Band7	10MHz	16QAM	21400	1RB#0	5.64	13	PASS
Band7	10MHz	16QAM	21400	50RB#0	6.28	13	PASS
Band7	15MHz	QPSK	20825	1RB#0	6.12	13	PASS
Band7	15MHz	QPSK	20825	75RB#0	5.80	13	PASS
Band7	15MHz	QPSK	21100	1RB#0	5.99	13	PASS
Band7	15MHz	QPSK	21100	75RB#0	5.74	13	PASS
Band7	15MHz	QPSK	21375	1RB#0	6.35	13	PASS
Band7	15MHz	QPSK	21375	75RB#0	5.83	13	PASS
Band7	15MHz	16QAM	20825	1RB#0	6.12	13	PASS
Band7	15MHz	16QAM	20825	75RB#0	6.73	13	PASS
Band7	15MHz	16QAM	21100	1RB#0	5.96	13	PASS
Band7	15MHz	16QAM	21100	75RB#0	6.79	13	PASS

Band7	15MHz	16QAM	21375	1RB#0	6.86	13	PASS
Band7	15MHz	16QAM	21375	75RB#0	6.83	13	PASS
Band7	20MHz	QPSK	20850	1RB#0	6.54	13	PASS
Band7	20MHz	QPSK	20850	100RB#0	6.41	13	PASS
Band7	20MHz	QPSK	21100	1RB#0	6.41	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	6.35	13	PASS
Band7	20MHz	QPSK	21350	1RB#0	6.76	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	6.44	13	PASS
Band7	20MHz	16QAM	20850	1RB#0	6.47	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	7.21	13	PASS
Band7	20MHz	16QAM	21100	1RB#0	6.38	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	7.21	13	PASS
Band7	20MHz	16QAM	21350	1RB#0	6.73	13	PASS
Band7	20MHz	16QAM	21350	100RB#0	7.15	13	PASS

Test Graphs

Band7-5MHz-QPSK-20775-1RB#0

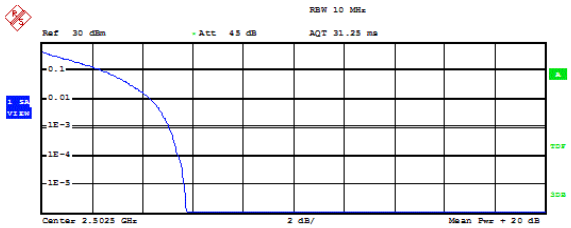


Complementary Cumulative Distribution Function (1000000 samples)

	Trace 1
Mean	23.19 dBm
Peak	27.35 dBm
Crest	4.16 dB
10 %	2.60 dB
1 %	3.88 dB
.1 %	4.04 dB
.01 %	4.10 dB

Date: 27.OCT.2020 03:56:36

Band7-5MHz-QPSK-20775-25RB#0

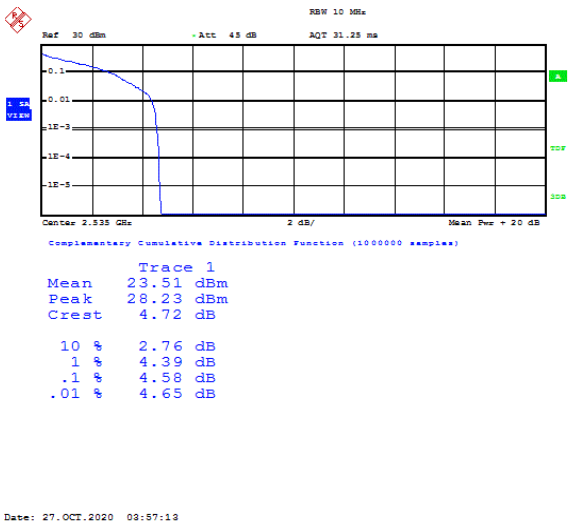


Complementary Cumulative Distribution Function (1000000 samples)

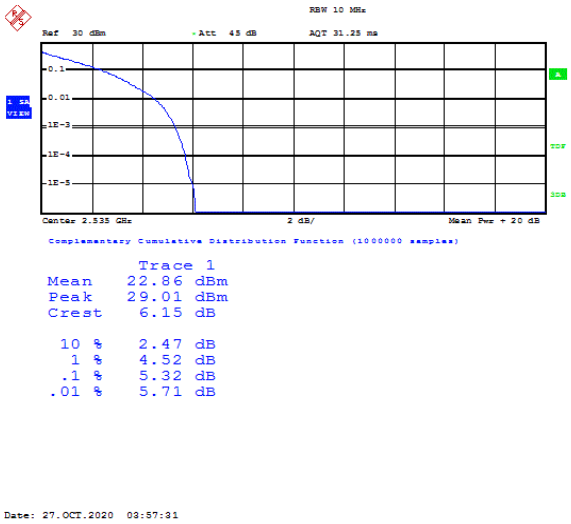
	Trace 1
Mean	22.58 dBm
Peak	28.33 dBm
Crest	5.76 dB
10 %	2.47 dB
1 %	4.33 dB
.1 %	5.06 dB
.01 %	5.42 dB

Date: 27.OCT.2020 03:56:53

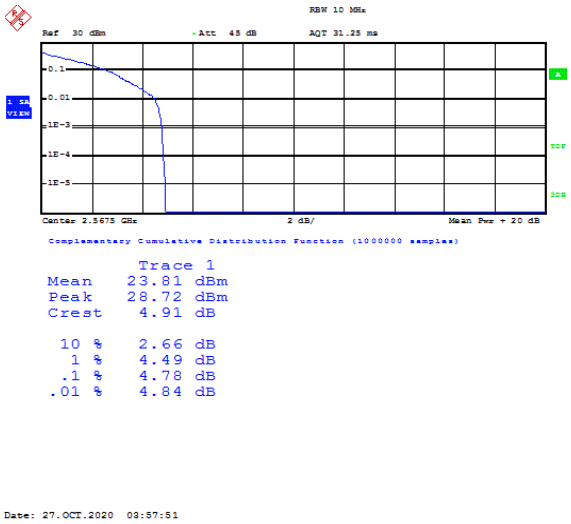
Band7-5MHz-QPSK-21100-1RB#0



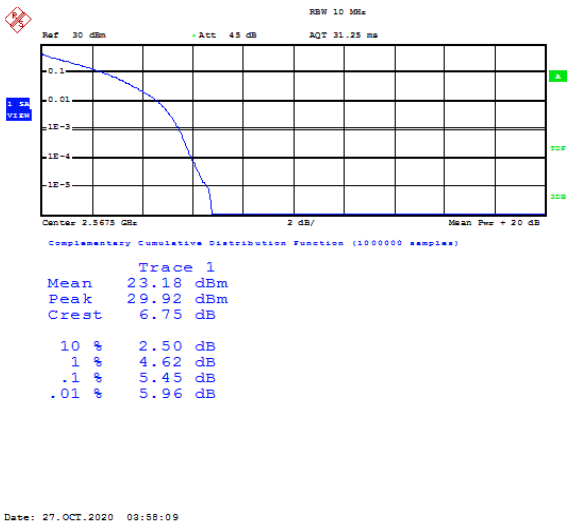
Band7-5MHz-QPSK-21100-25RB#0



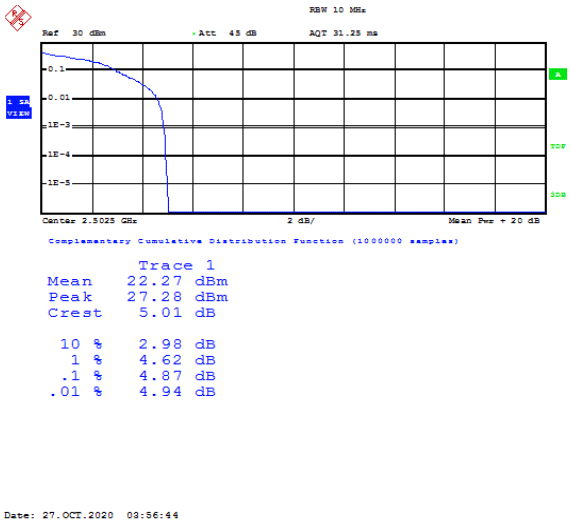
Band7-5MHz-QPSK-21425-1RB#0



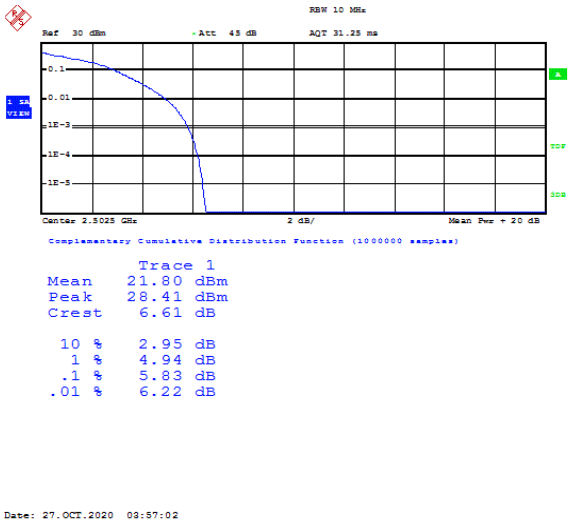
Band7-5MHz-QPSK-21425-25RB#0



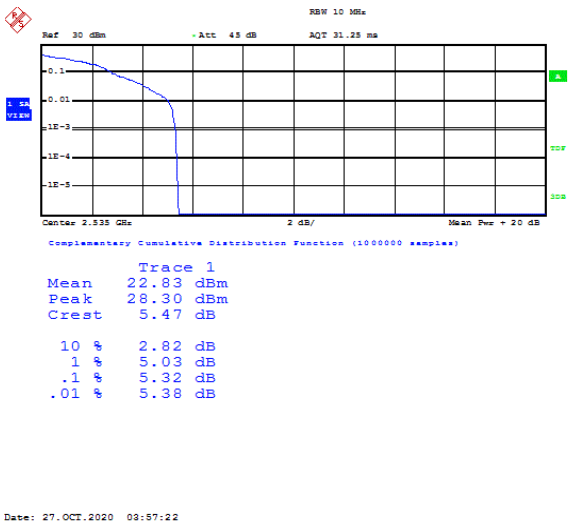
Band7-5MHz-16QAM-20775-1RB#0



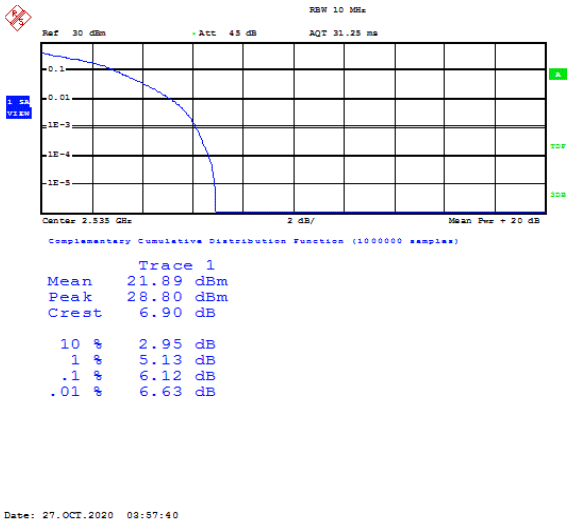
Band7-5MHz-16QAM-20775-25RB#0



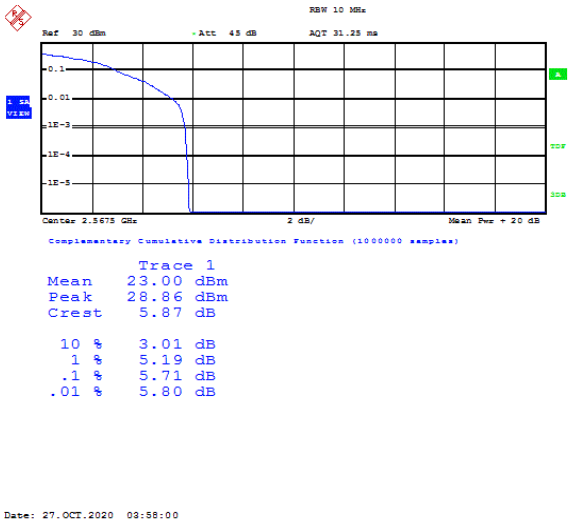
Band7-5MHz-16QAM-21100-1RB#0



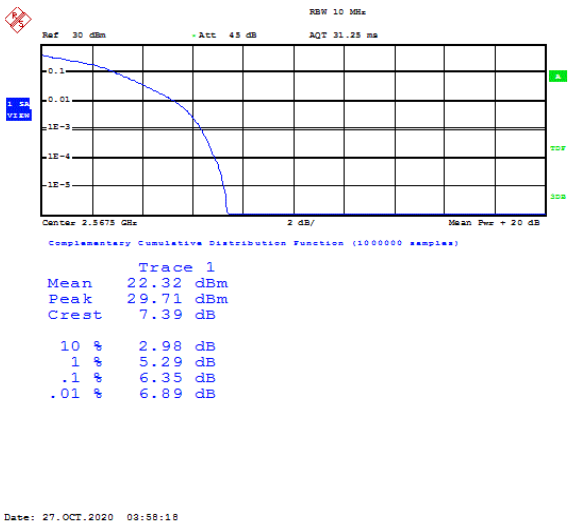
Band7-5MHz-16QAM-21100-25RB#0



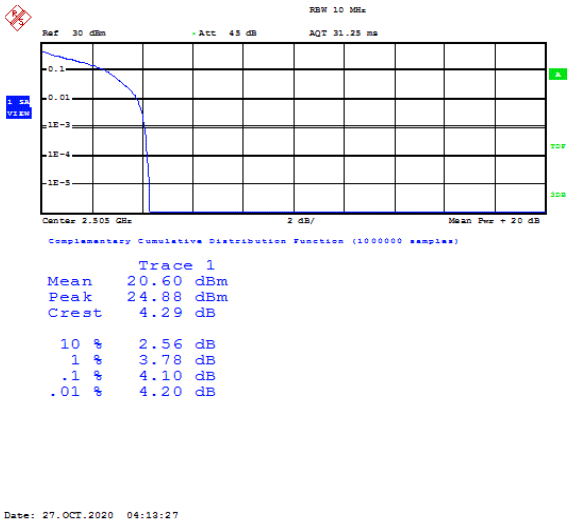
Band7-5MHz-16QAM-21425-1RB#0



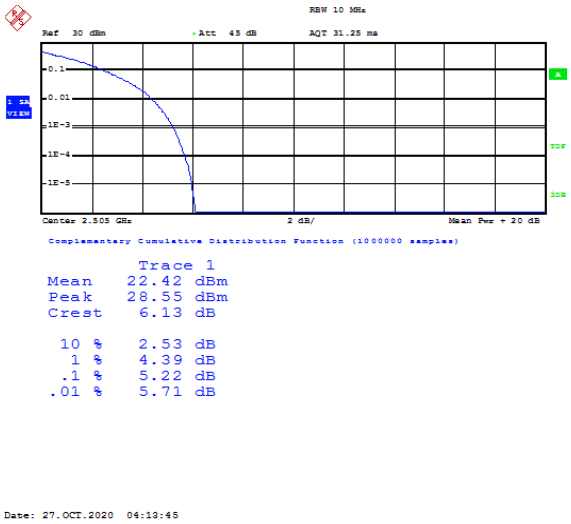
Band7-5MHz-16QAM-21425-25RB#0



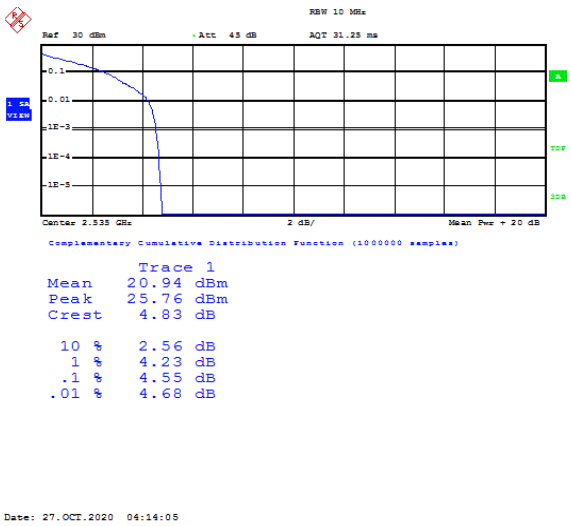
Band7-10MHz-QPSK-20800-1RB#0



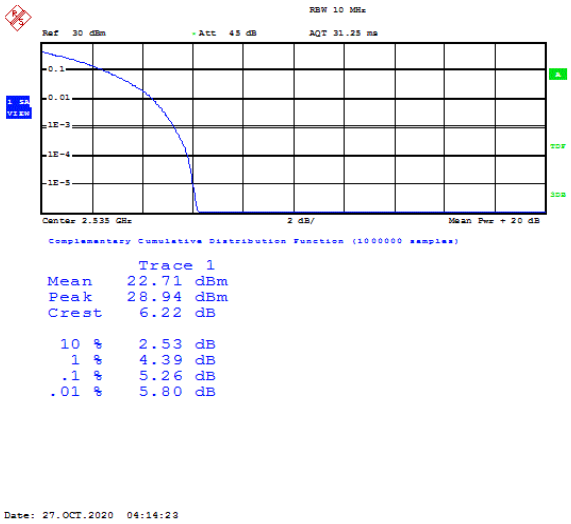
Band7-10MHz-QPSK-20800-50RB#0



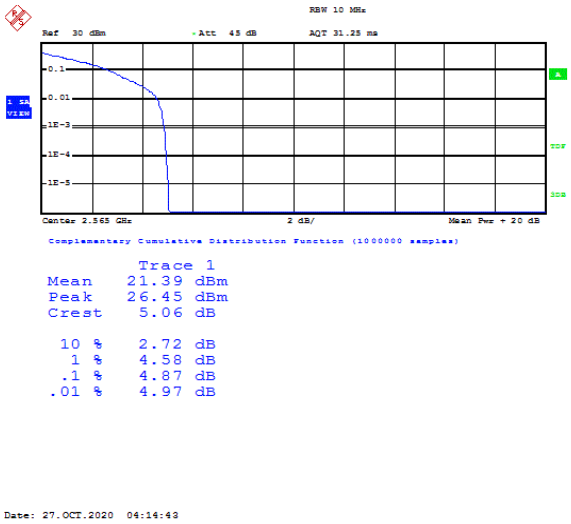
Band7-10MHz-QPSK-21100-1RB#0



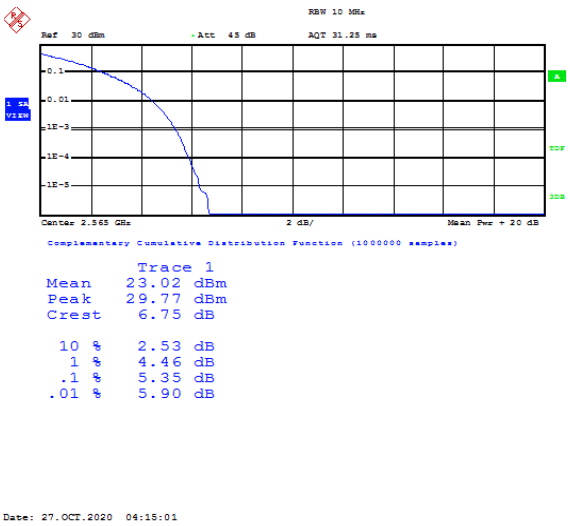
Band7-10MHz-QPSK-21100-50RB#0



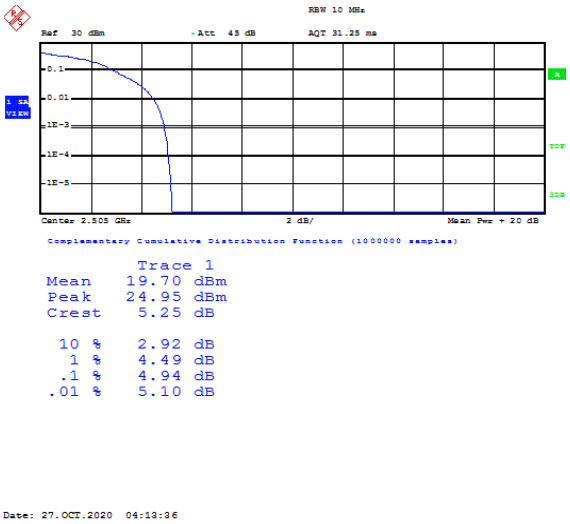
Band7-10MHz-QPSK-21400-1RB#0



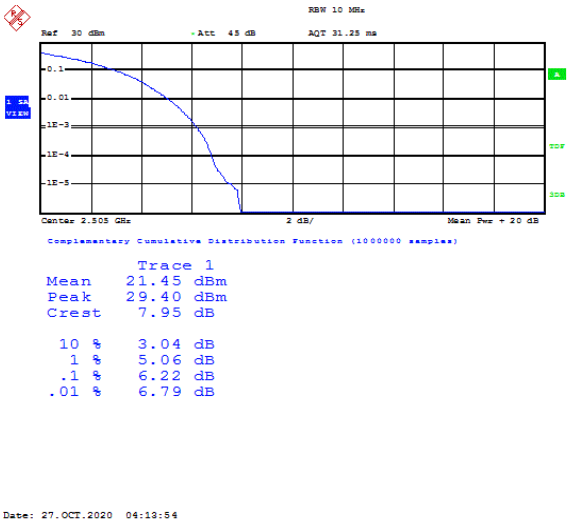
Band7-10MHz-QPSK-21400-50RB#0



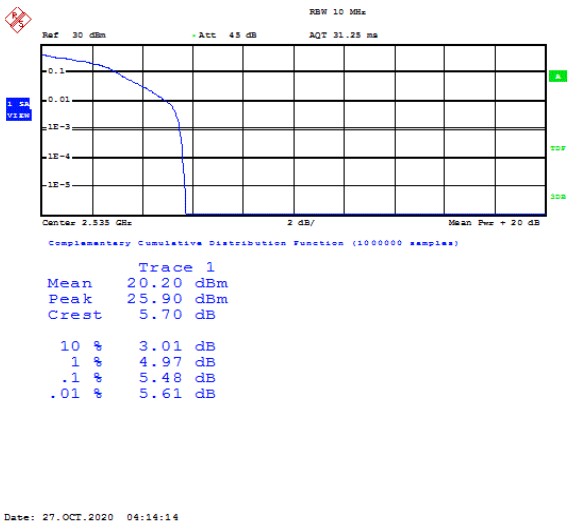
Band7-10MHz-16QAM-20800-1RB#0



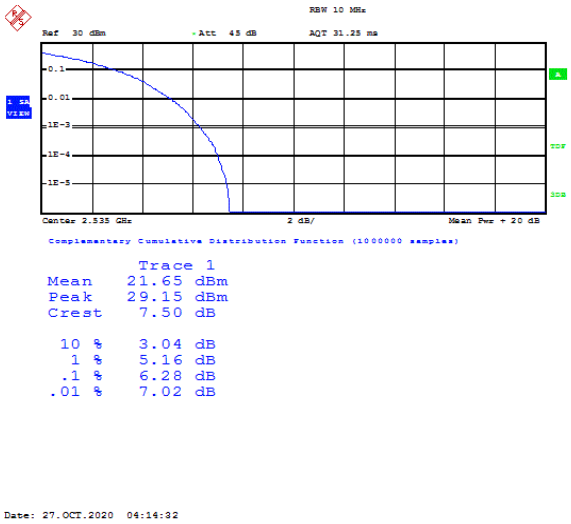
Band7-10MHz-16QAM-20800-50RB#0



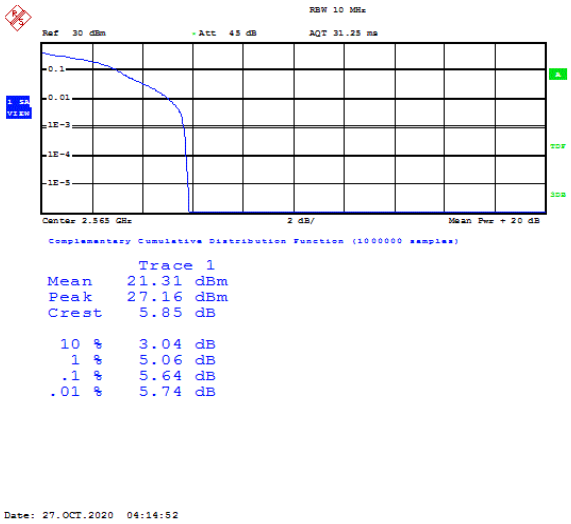
Band7-10MHz-16QAM-21100-1RB#0



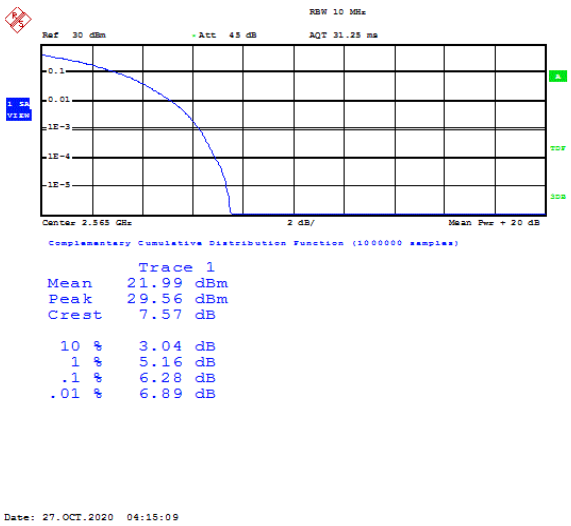
Band7-10MHz-16QAM-21100-50RB#0



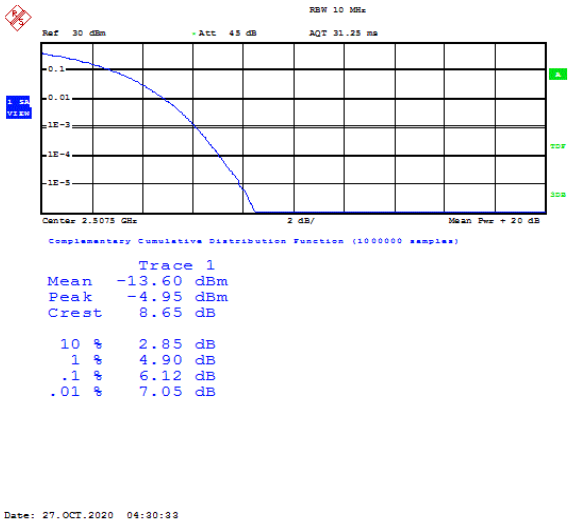
Band7-10MHz-16QAM-21400-1RB#0



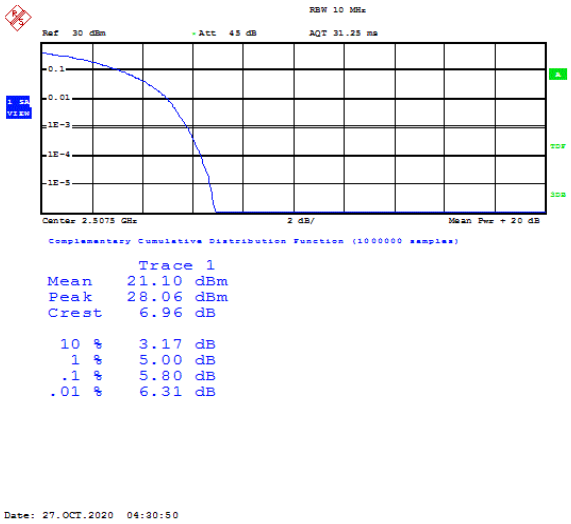
Band7-10MHz-16QAM-21400-50RB#0



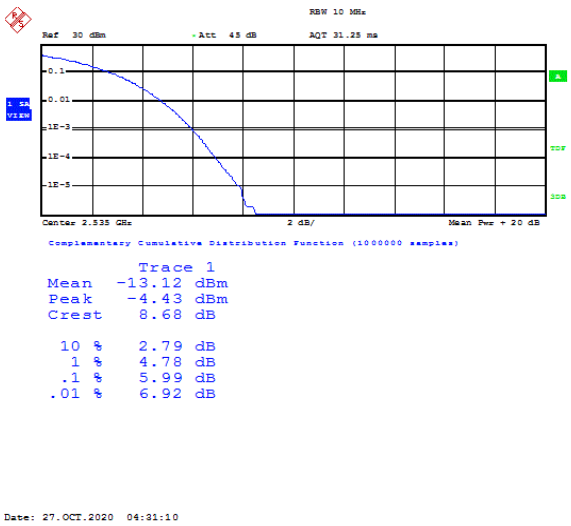
Band7-15MHz-QPSK-20825-1RB#0



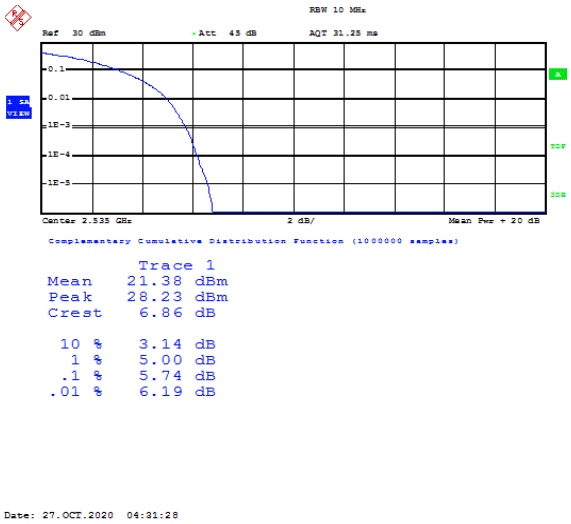
Band7-15MHz-QPSK-20825-75RB#0



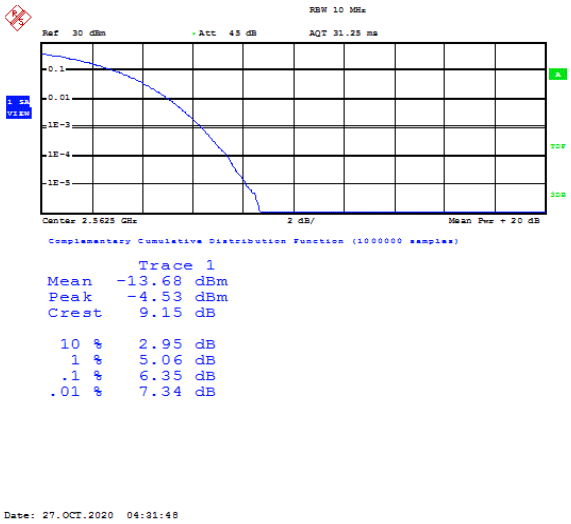
Band7-15MHz-QPSK-21100-1RB#0



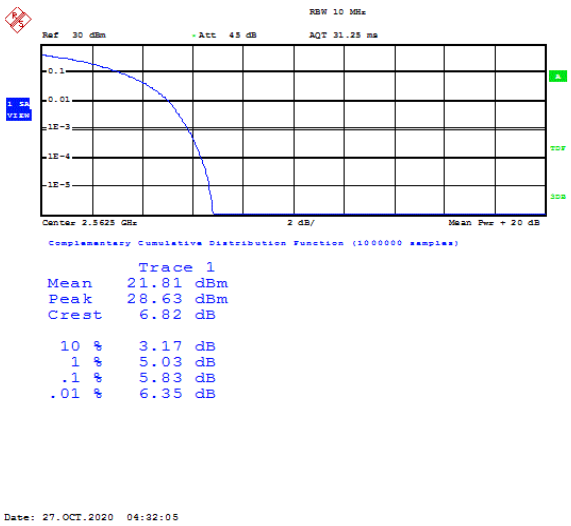
Band7-15MHz-QPSK-21100-75RB#0



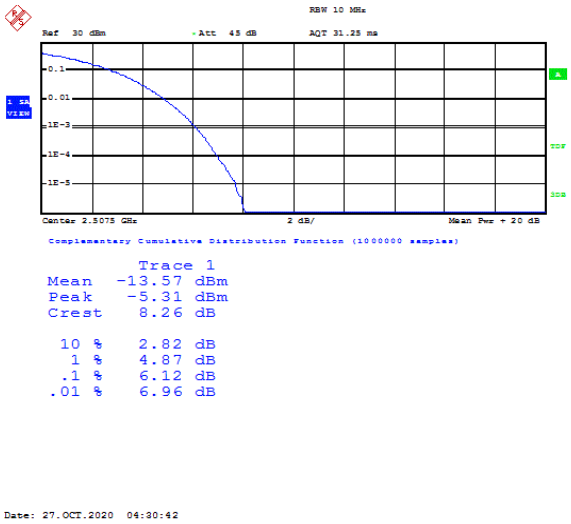
Band7-15MHz-QPSK-21375-1RB#0



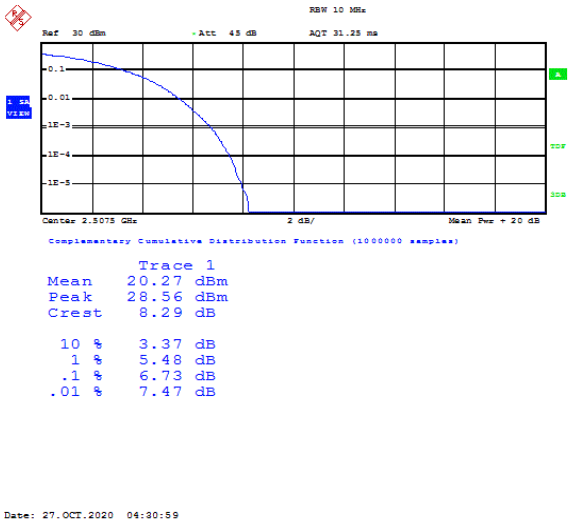
Band7-15MHz-QPSK-21375-75RB#0



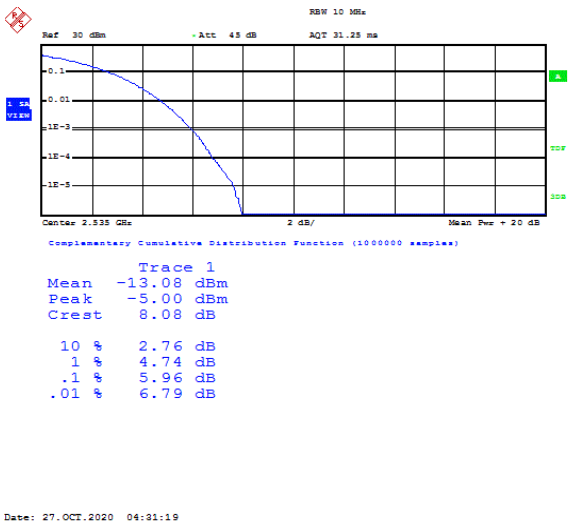
Band7-15MHz-16QAM-20825-1RB#0



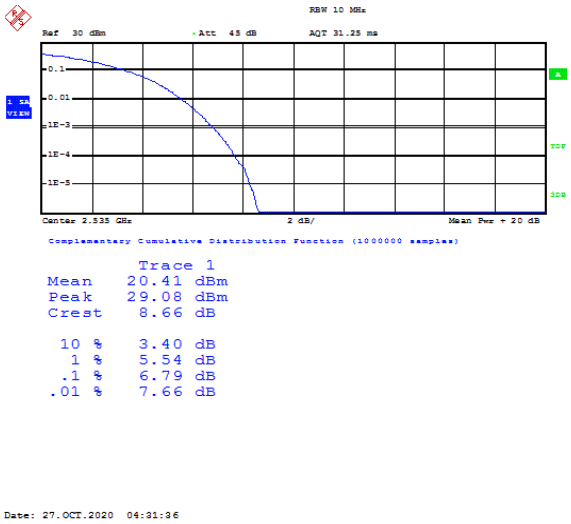
Band7-15MHz-16QAM-20825-75RB#0



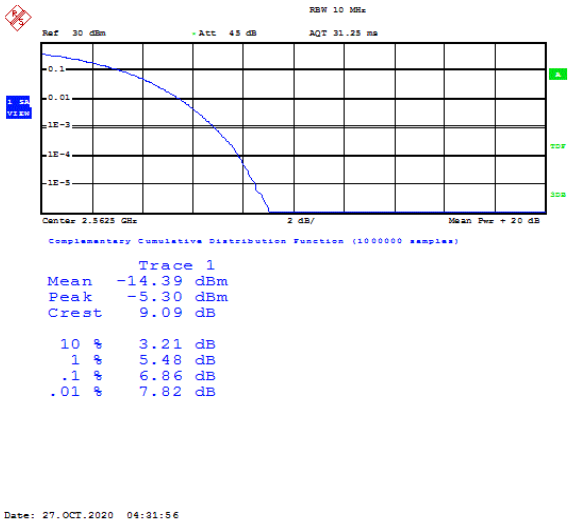
Band7-15MHz-16QAM-21100-1RB#0



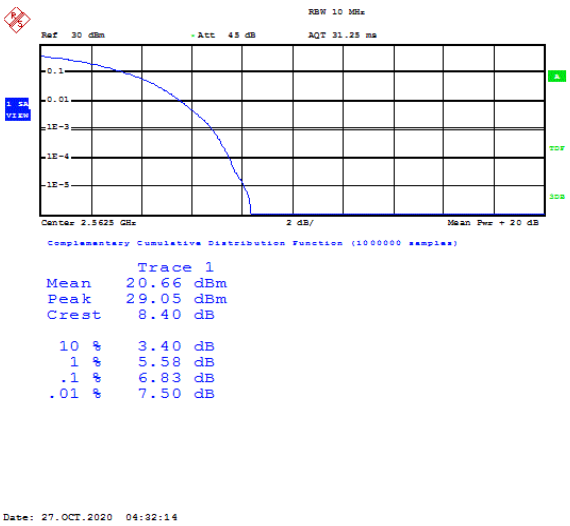
Band7-15MHz-16QAM-21100-75RB#0



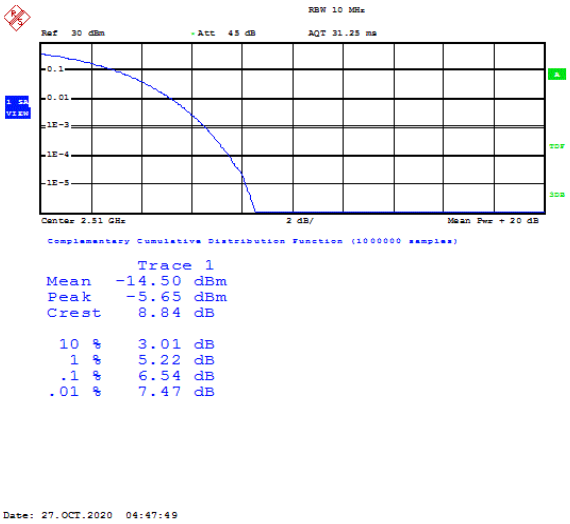
Band7-15MHz-16QAM-21375-1RB#0



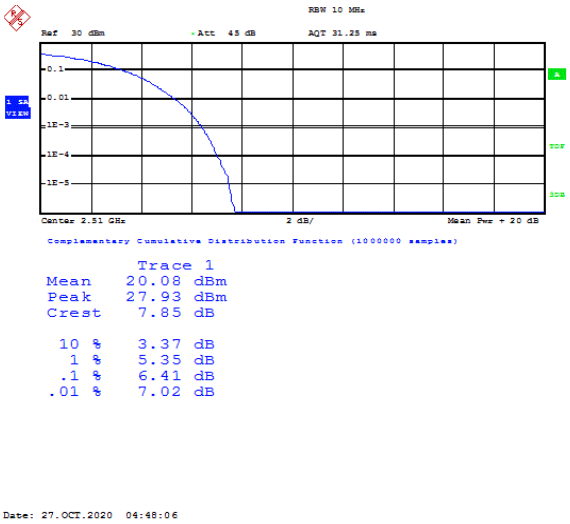
Band7-15MHz-16QAM-21375-75RB#0



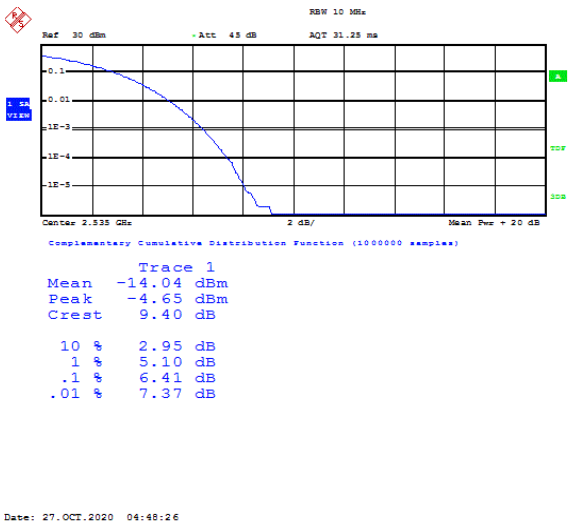
Band7-20MHz-QPSK-20850-1RB#0



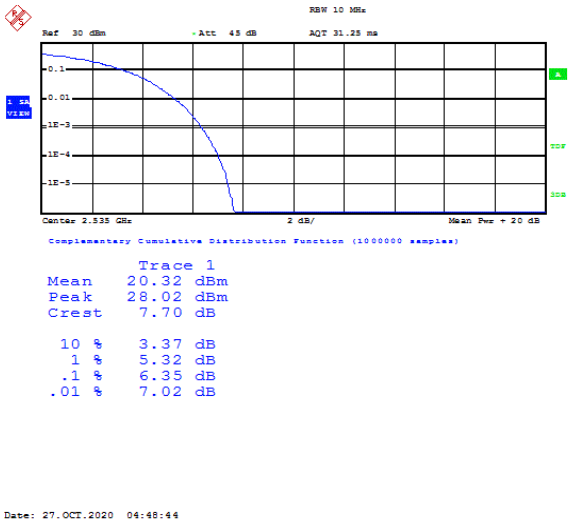
Band7-20MHz-QPSK-20850-100RB#0



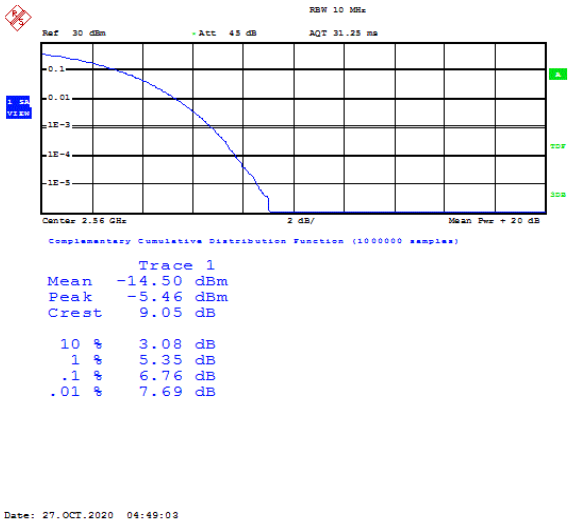
Band7-20MHz-QPSK-21100-1RB#0



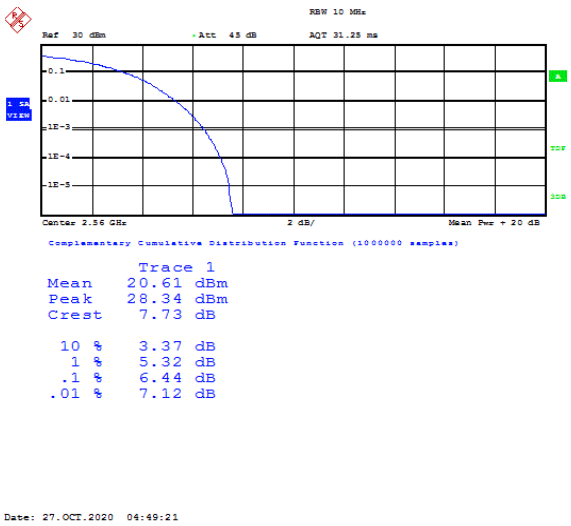
Band7-20MHz-QPSK-21100-100RB#0



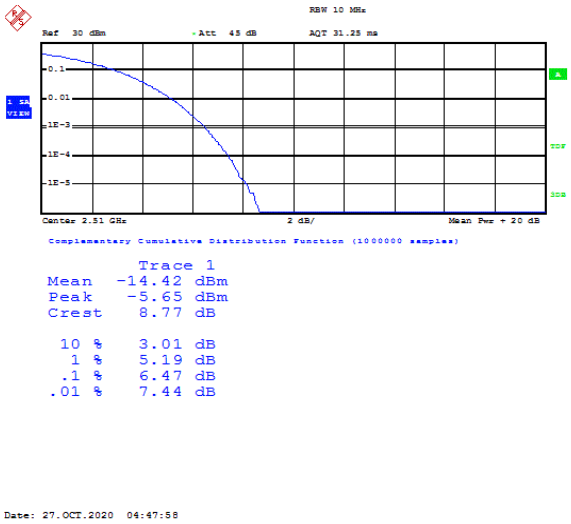
Band7-20MHz-QPSK-21350-1RB#0



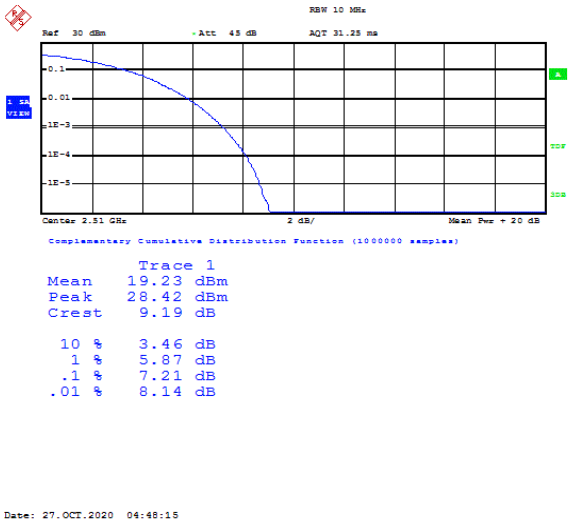
Band7-20MHz-QPSK-21350-100RB#0



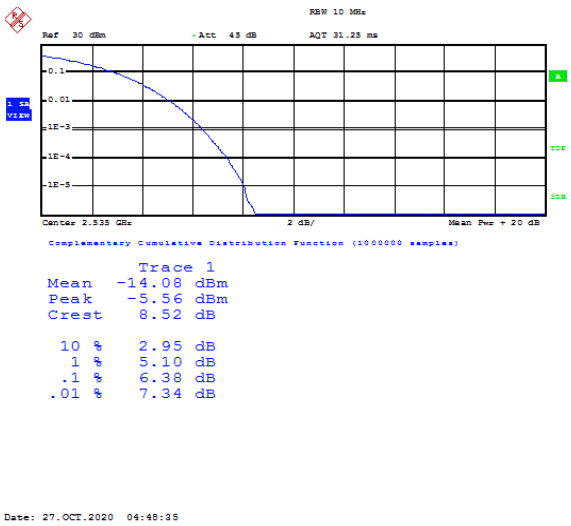
Band7-20MHz-16QAM-20850-1RB#0



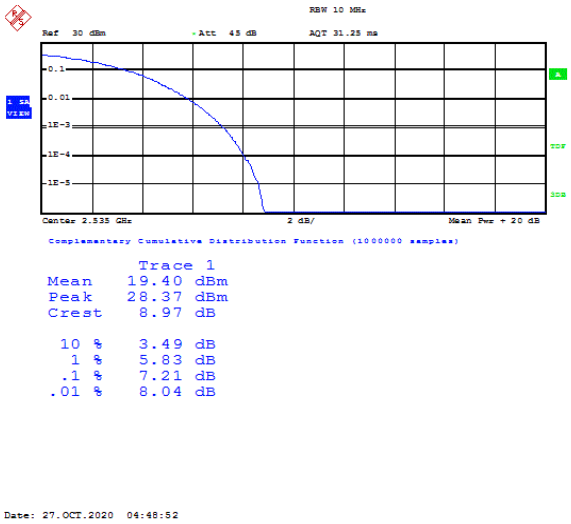
Band7-20MHz-16QAM-20850-100RB#0



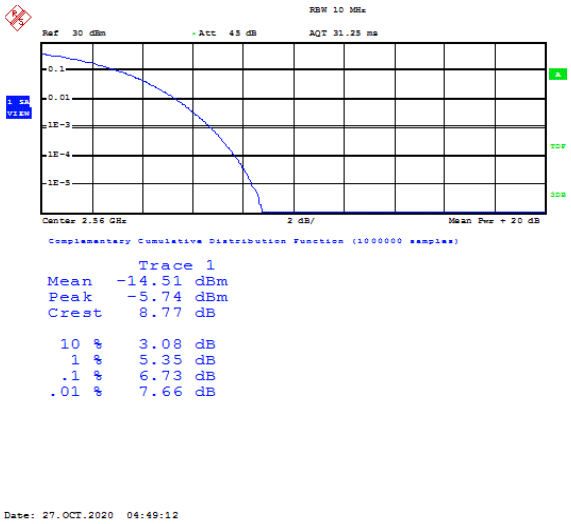
Band7-20MHz-16QAM-21100-1RB#0



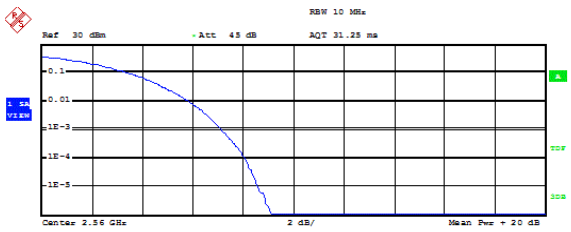
Band7-20MHz-16QAM-21100-100RB#0



Band7-20MHz-16QAM-21350-1RB#0



Band7-20MHz-16QAM-21350-100RB#0



Complementary Cumulative Distribution Function (1000000 samples)

	Trace 1
Mean	19.68 dBm
Peak	28.90 dBm
Crest	9.23 dB
10 %	3.46 dB
1 %	5.83 dB
.1 %	7.15 dB
.01 %	8.08 dB

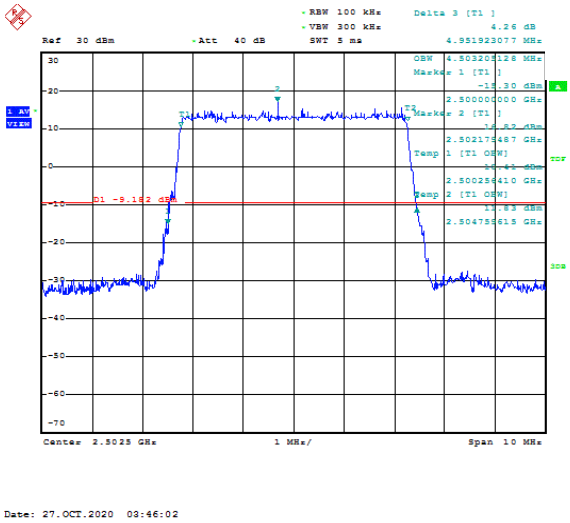
Date: 27.OCT.2020 04:49:30

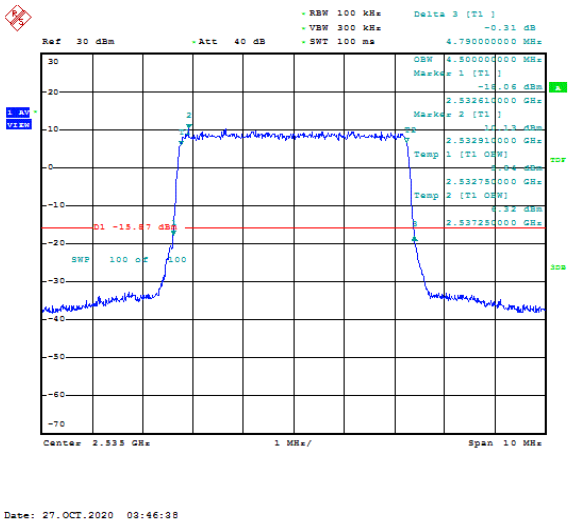
1.3. Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

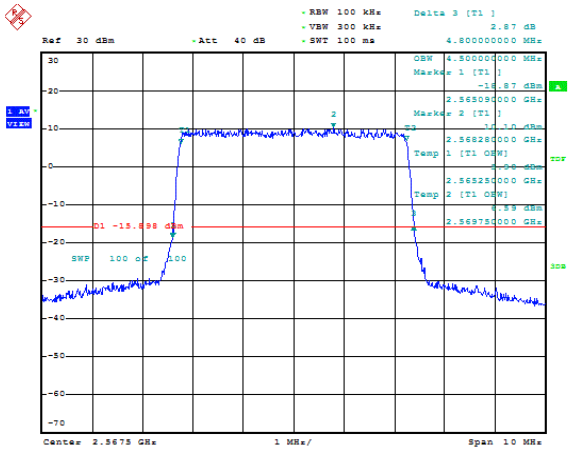
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	4.503	4.952	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.5	4.790	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.5	4.800	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.51	4.790	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.51	4.780	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.51	4.780	PASS
Band7	10MHz	QPSK	20800	50RB#0	9.006	9.808	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.967	9.667	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.967	9.667	PASS
Band7	10MHz	16QAM	20800	50RB#0	8.967	9.633	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.967	9.633	PASS
Band7	10MHz	16QAM	21400	50RB#0	8.967	9.633	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.51	14.615	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.5	14.500	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.45	14.500	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.45	14.500	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.45	14.550	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.45	14.450	PASS
Band7	20MHz	QPSK	20850	100RB#0	18.141	19.615	PASS
Band7	20MHz	QPSK	21100	100RB#0	18	19.600	PASS
Band7	20MHz	QPSK	21350	100RB#0	18	19.667	PASS
Band7	20MHz	16QAM	20850	100RB#0	18.067	19.533	PASS
Band7	20MHz	16QAM	21100	100RB#0	18	19.667	PASS
Band7	20MHz	16QAM	21350	100RB#0	18	19.533	PASS

Test Graphs

Band7-5MHz-QPSK-20775-25RB#0-4.503


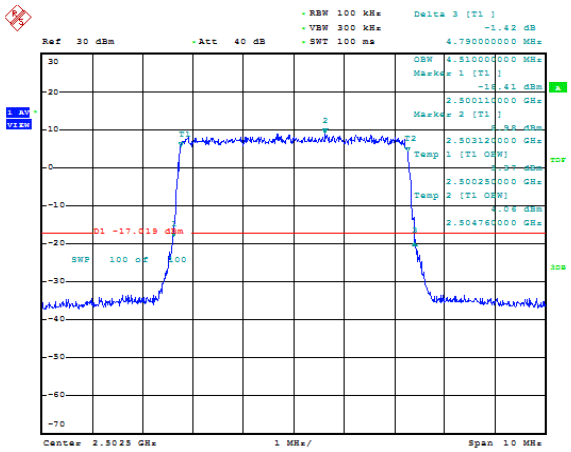
Band7-5MHz-QPSK-21100-25RB#0-4.5


Band7-5MHz-QPSK-21425-25RB#0-4.5



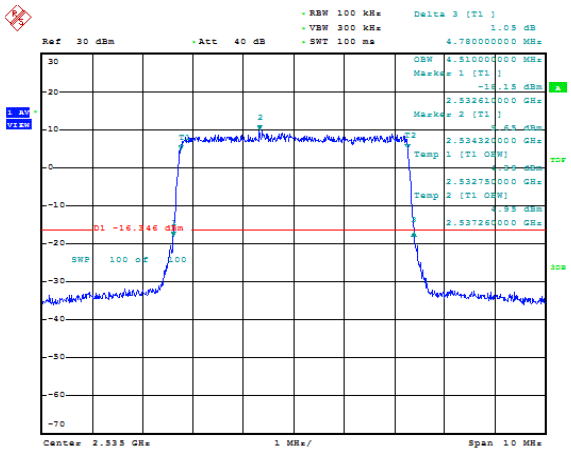
Date: 27.OCT.2020 03:47:15

Band7-5MHz-16QAM-20775-25RB#0-4.51



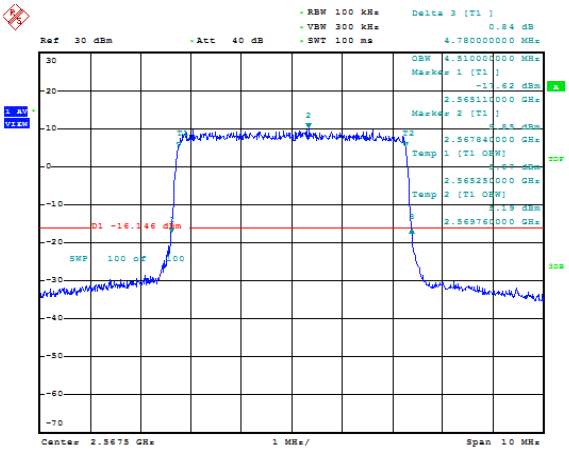
Date: 27.OCT.2020 03:46:19

Band7-5MHz-16QAM-21100-25RB#0-4.51

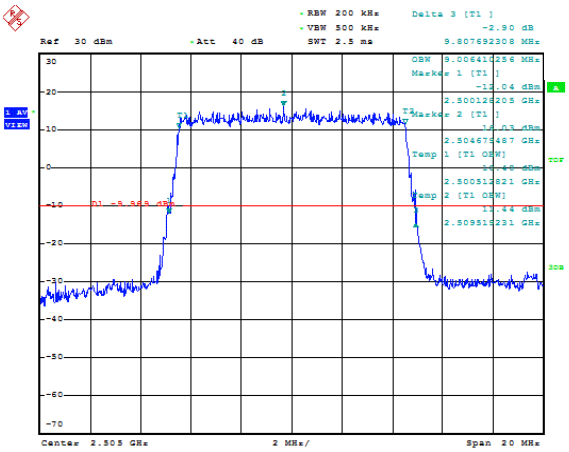


Date: 27.OCT.2020 03:46:56

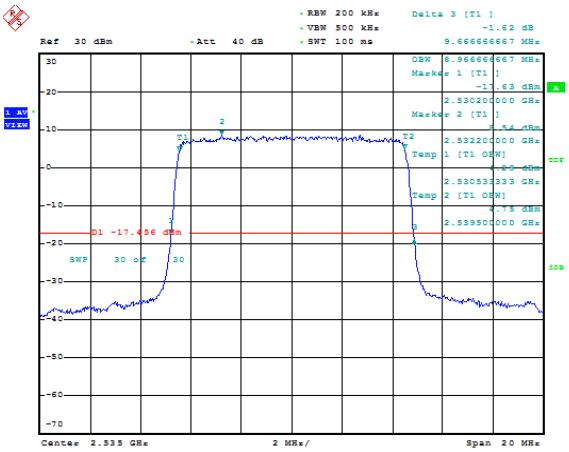
Band7-5MHz-16QAM-21425-25RB#0-4.51



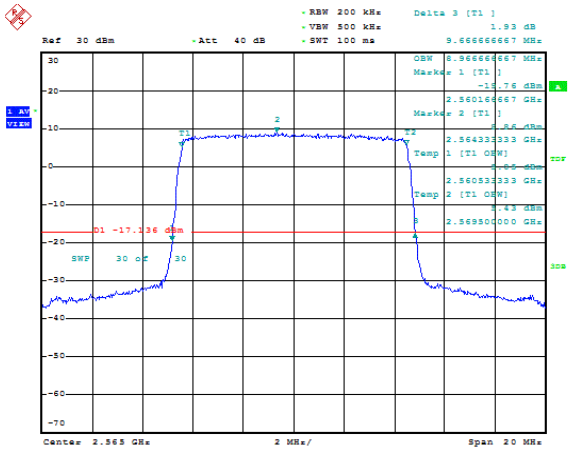
Band7-10MHz-QPSK-20800-50RB#0-9.006



Band7-10MHz-QPSK-21100-50RB#0-8.967

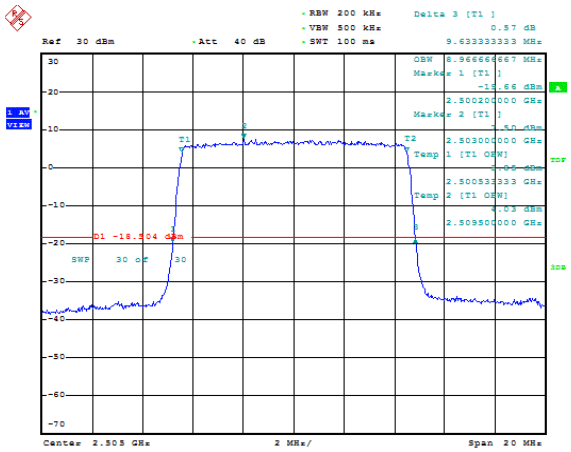


Band7-10MHz-QPSK-21400-50RB#0-8.967



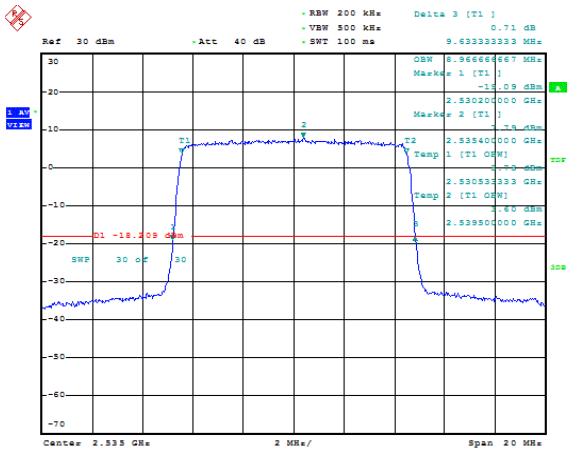
Date: 27.OCT.2020 04:03:59

Band7-10MHz-16QAM-20800-50RB#0-8.967



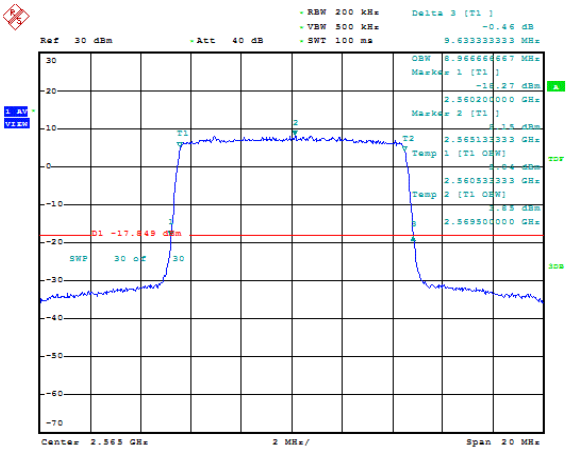
Date: 27.OCT.2020 04:03:23

Band7-10MHz-16QAM-21100-50RB#0-8.967



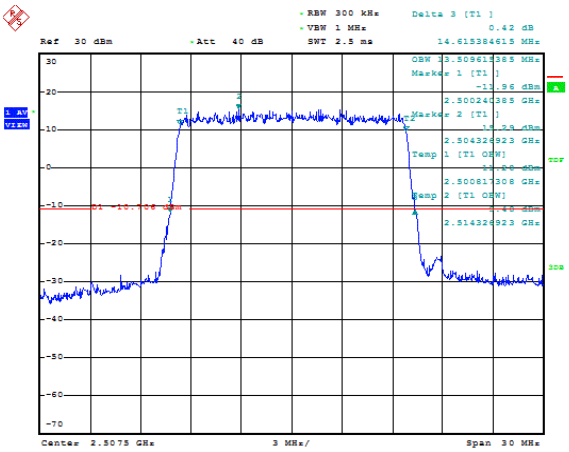
Date: 27.OCT.2020 04:03:46

Band7-10MHz-16QAM-21400-50RB#0-8.967



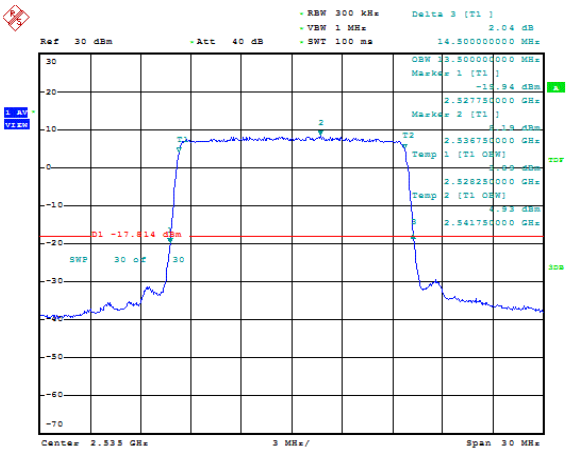
Date: 27.OCT.2020 04:04:09

Band7-15MHz-QPSK-20825-75RB#0-13.51



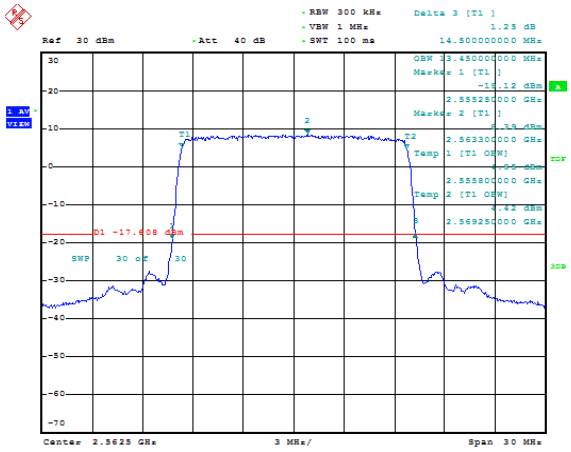
Date: 27.OCT.2020 04:20:05

Band7-15MHz-QPSK-21100-75RB#0-13.5



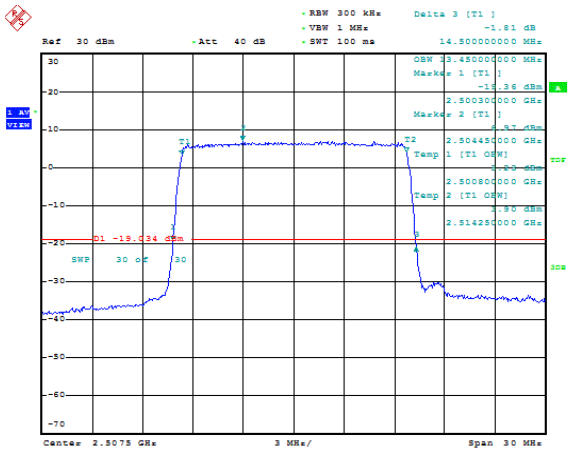
Date: 27.OCT.2020 04:20:28

Band7-15MHz-QPSK-21375-75RB#0-13.45



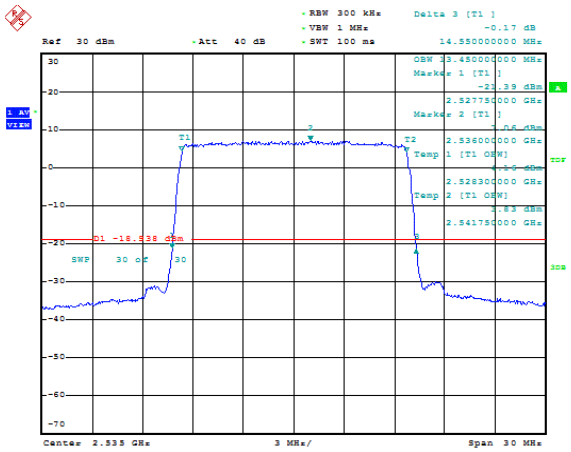
Date: 27.OCT.2020 04:20:51

Band7-15MHz-16QAM-20825-75RB#0-13.45



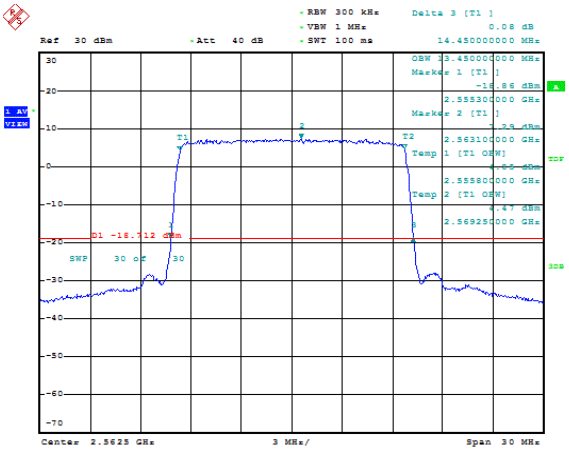
Date: 27.OCT.2020 04:20:16

Band7-15MHz-16QAM-21100-75RB#0-13.45



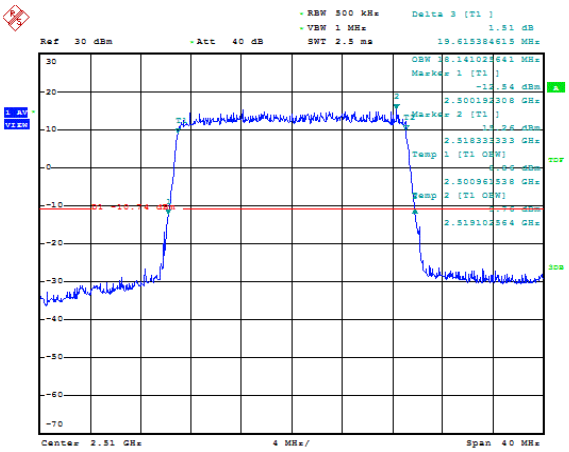
Date: 27.OCT.2020 04:20:38

Band7-15MHz-16QAM-21375-75RB#0-13.45



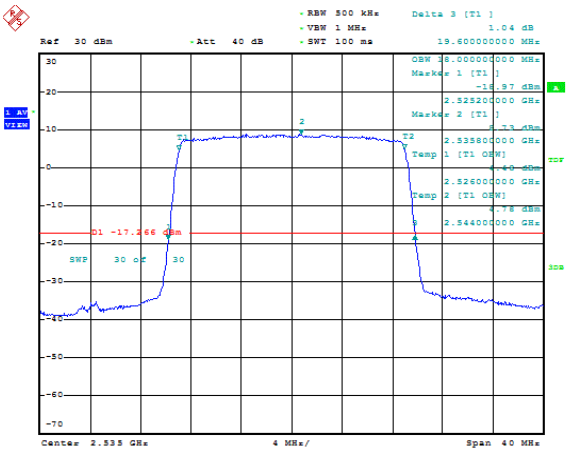
Date: 27.OCT.2020 04:21:01

Band7-20MHz-QPSK-20850-100RB#0-18.141



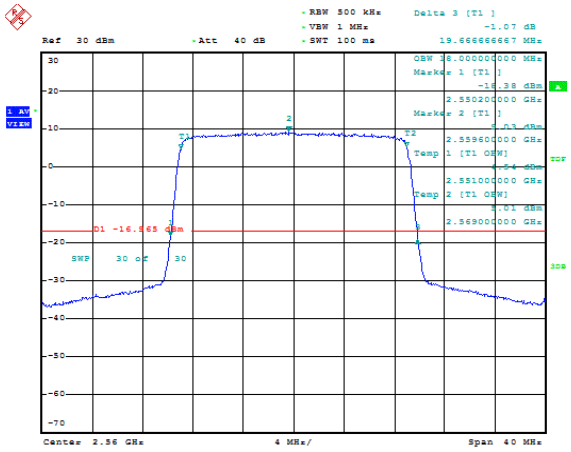
Date: 27.OCT.2020 04:37:13

Band7-20MHz-QPSK-21100-100RB#0-18

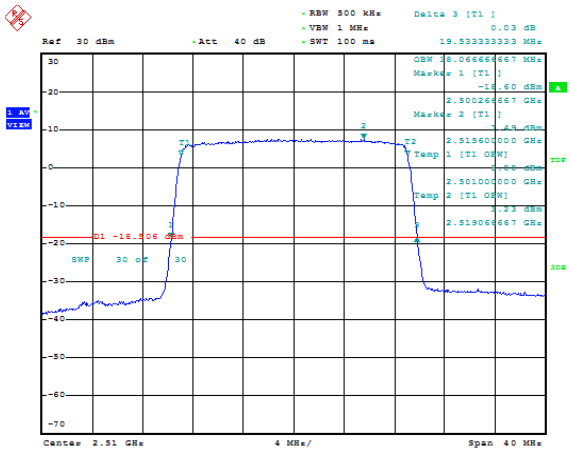


Date: 27.OCT.2020 04:37:36

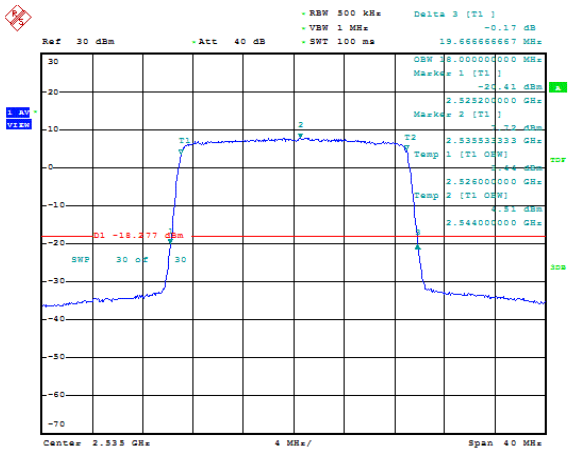
Band7-20MHz-QPSK-21350-100RB#0-18



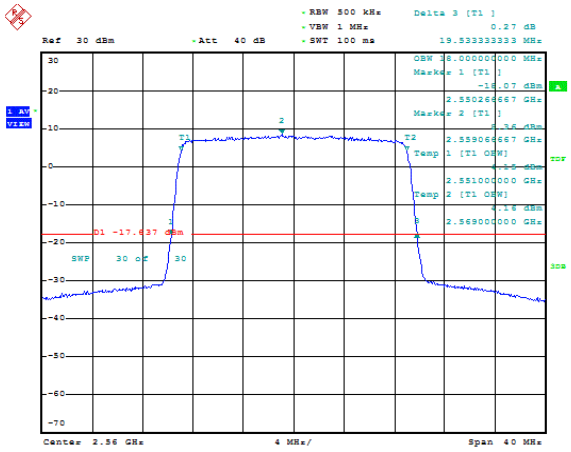
Band7-20MHz-16QAM-20850-100RB#0-18.067



Band7-20MHz-16QAM-21100-100RB#0-18



Band7-20MHz-16QAM-21350-100RB#0-18


RBW 500 kHz
VBW 1 MHz
SWT 100 ms
Delta 3 [T1]
0.27 dB
19.533333333 MHz
Ref 30 dBm
Att 40 dB
OBW 18.000000000 MHz
Marker 1 [T1]
-18.07 dBm
2.550266667 GHz
Marker 2 [T1]
-8.36 dBm
2.559066667 GHz
Temp 1 [T1 OBW]
-15 dBm
2.551000000 GHz
Temp 2 [T1 OBW]
-16 dBm
2.569000000 GHz
D1 -17.637 dBm
SWP 30 of 30
Center 2.56 GHz
4 MHz/
Span 40 MHz
Date: 27.OCT.2020 04:38:09

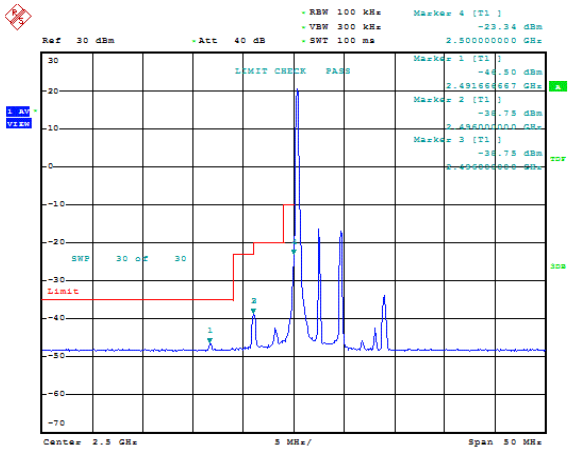
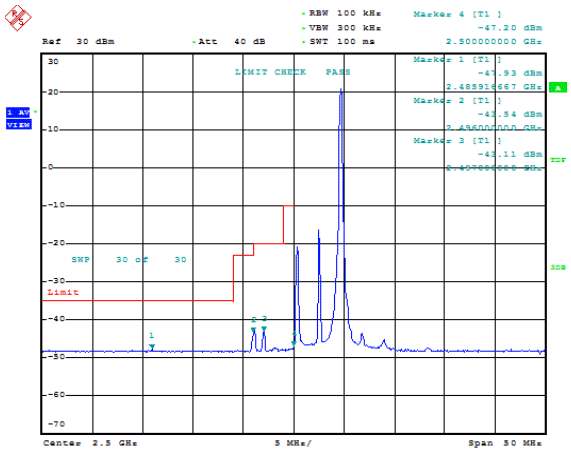
1.4. Appendix D: Band Edge

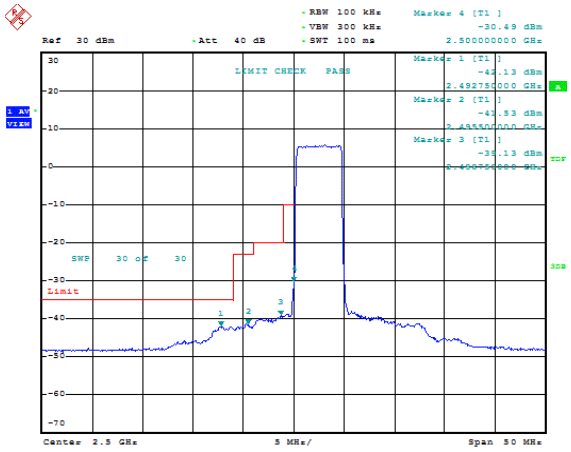
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	-46.50,-38.75,-38.75,-23.34	PASS
Band7	5MHz	QPSK	20775	1RB#24	-47.93,-43.54,-43.11,-47.20	PASS
Band7	5MHz	QPSK	20775	25RB#0	-42.13,-41.53,-39.13,-30.49	PASS
Band7	5MHz	QPSK	21425	1RB#0	-46.27,-32.05,-47.77,-47.65	PASS
Band7	5MHz	QPSK	21425	1RB#24	-21.61,-45.18,-47.49,-47.10	PASS
Band7	5MHz	QPSK	21425	25RB#0	-29.10,-35.20,-41.72,-41.75	PASS
Band7	5MHz	16QAM	20775	1RB#0	-46.91,-40.17,-40.17,-24.42	PASS
Band7	5MHz	16QAM	20775	1RB#24	-48.02,-44.56,-43.71,-47.38	PASS
Band7	5MHz	16QAM	20775	25RB#0	-42.69,-41.06,-38.14,-31.87	PASS
Band7	5MHz	16QAM	21425	1RB#0	-46.71,-33.58,-47.50,-47.70	PASS
Band7	5MHz	16QAM	21425	1RB#24	-21.57,-45.26,-47.44,-47.51	PASS
Band7	5MHz	16QAM	21425	25RB#0	-29.78,-34.90,-41.08,-41.92	PASS
Band7	10MHz	QPSK	20800	1RB#0	-46.93,-39.64,-41.50,-17.91	PASS
Band7	10MHz	QPSK	20800	1RB#49	-46.99,-33.68,-46.31,-46.00	PASS
Band7	10MHz	QPSK	20800	50RB#0	-42.39,-41.00,-38.62,-30.99	PASS
Band7	10MHz	QPSK	21400	1RB#0	-44.53,-45.46,-35.54,-46.56	PASS
Band7	10MHz	QPSK	21400	1RB#49	-13.36,-43.64,-45.13,-46.43	PASS
Band7	10MHz	QPSK	21400	50RB#0	-28.16,-33.47,-37.64,-42.24	PASS
Band7	10MHz	16QAM	20800	1RB#0	-47.01,-41.91,-42.18,-19.05	PASS
Band7	10MHz	16QAM	20800	1RB#49	-47.02,-35.65,-46.49,-46.37	PASS
Band7	10MHz	16QAM	20800	50RB#0	-42.01,-38.97,-37.49,-31.91	PASS
Band7	10MHz	16QAM	21400	1RB#0	-45.46,-44.62,-38.40,-46.52	PASS
Band7	10MHz	16QAM	21400	1RB#49	-14.26,-43.51,-43.26,-46.42	PASS
Band7	10MHz	16QAM	21400	50RB#0	-28.83,-33.05,-37.04,-41.66	PASS
Band7	15MHz	QPSK	20825	1RB#0	-40.93,-40.90,-42.65,-16.12	PASS
Band7	15MHz	QPSK	20825	1RB#74	-35.08,-45.95,-46.46,-45.73	PASS
Band7	15MHz	QPSK	20825	75RB#0	-40.82,-38.97,-36.66,-30.85	PASS
Band7	15MHz	QPSK	21375	1RB#0	-43.65,-45.81,-35.06,-45.92	PASS
Band7	15MHz	QPSK	21375	1RB#74	-12.34,-41.58,-43.98,-45.81	PASS
Band7	15MHz	QPSK	21375	75RB#0	-28.28,-30.58,-36.69,-41.37	PASS
Band7	15MHz	16QAM	20825	1RB#0	-41.63,-41.07,-43.08,-17.07	PASS
Band7	15MHz	16QAM	20825	1RB#74	-36.47,-46.03,-46.48,-45.65	PASS
Band7	15MHz	16QAM	20825	75RB#0	-40.11,-37.99,-36.18,-32.45	PASS

Band7	15MHz	16QAM	21375	1RB#0	-44.28,-45.91,-37.26,-45.91	PASS
Band7	15MHz	16QAM	21375	1RB#74	-12.71,-41.54,-43.67,-45.78	PASS
Band7	15MHz	16QAM	21375	75RB#0	-29.14,-30.39,-35.45,-40.76	PASS
Band7	20MHz	QPSK	20850	1RB#0	-50.94,-49.70,-42.12,-16.27	PASS
Band7	20MHz	QPSK	20850	1RB#99	-49.81,-53.58,-53.66,-52.34	PASS
Band7	20MHz	QPSK	20850	100RB#0	-40.96,-37.72,-35.11,-26.69	PASS
Band7	20MHz	QPSK	21350	1RB#0	-48.52,-53.31,-42.76,-53.30	PASS
Band7	20MHz	QPSK	21350	1RB#99	-13.51,-37.93,-49.86,-53.28	PASS
Band7	20MHz	QPSK	21350	100RB#0	-24.08,-31.84,-34.89,-41.94	PASS
Band7	20MHz	16QAM	20850	1RB#0	-51.00,-49.86,-42.82,-17.14	PASS
Band7	20MHz	16QAM	20850	1RB#99	-51.14,-53.40,-53.67,-52.64	PASS
Band7	20MHz	16QAM	20850	100RB#0	-38.90,-36.58,-35.59,-27.57	PASS
Band7	20MHz	16QAM	21350	1RB#0	-49.42,-53.32,-45.59,-53.29	PASS
Band7	20MHz	16QAM	21350	1RB#99	-14.75,-38.90,-50.40,-53.31	PASS
Band7	20MHz	16QAM	21350	100RB#0	-24.98,-31.79,-33.86,-41.11	PASS

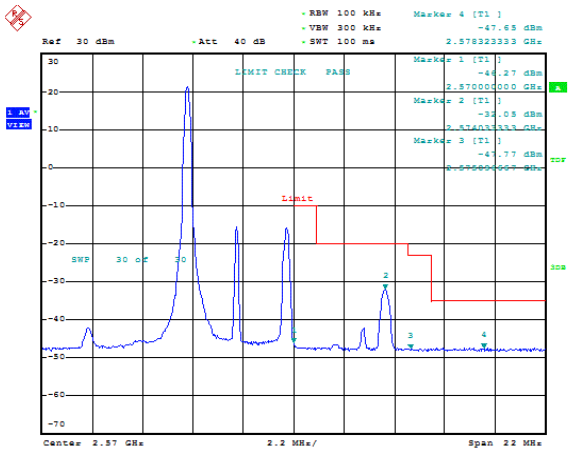
Test Graphs

Band7-5MHz-QPSK-20775-1RB#0
 Date: 27.OCT.2020 03:47:51
Band7-5MHz-QPSK-20775-1RB#24
 Date: 27.OCT.2020 03:48:14
Band7-5MHz-QPSK-20775-25RB#0



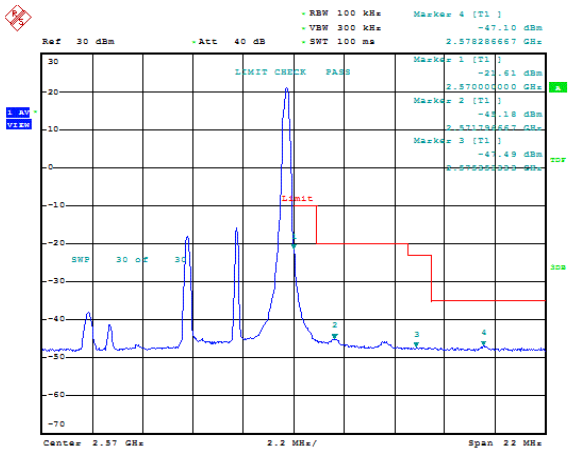
Date: 27.OCT.2020 03:48:38

Band7-5MHz-QPSK-21425-1RB#0



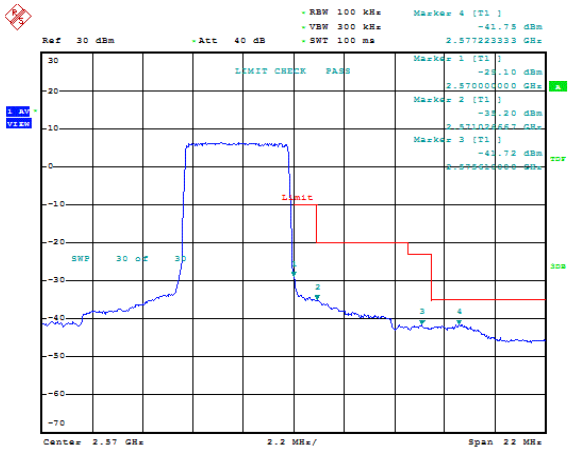
Date: 27.OCT.2020 03:49:14

Band7-5MHz-QPSK-21425-1RB#24



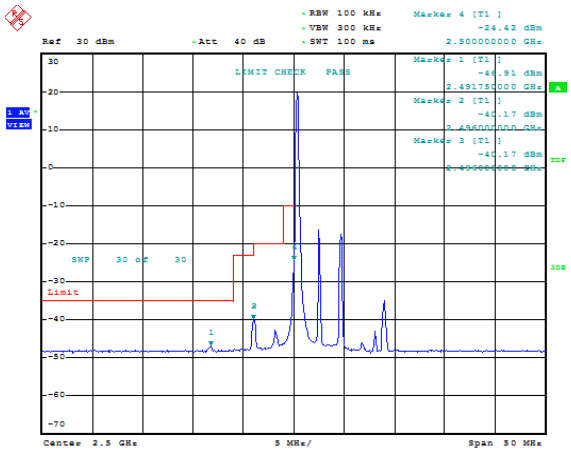
Date: 27.OCT.2020 03:49:37

Band7-5MHz-QPSK-21425-25RB#0



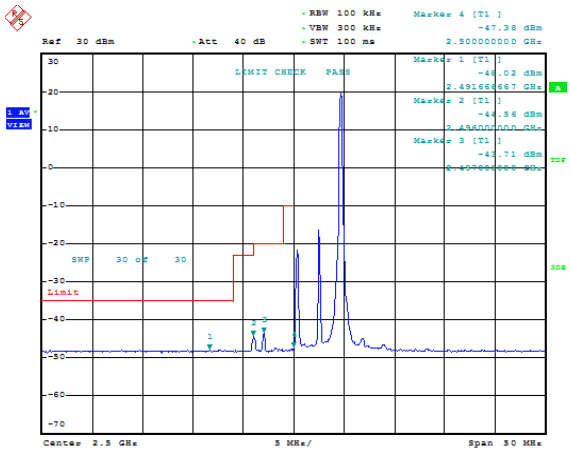
Date: 27.OCT.2020 03:50:01

Band7-5MHz-16QAM-20775-1RB#0



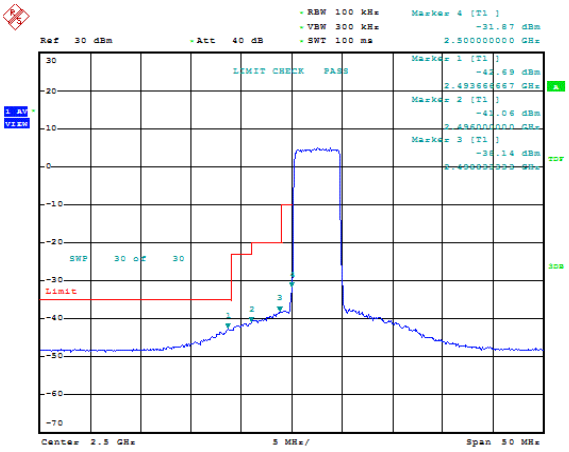
Date: 27.OCT.2020 03:48:03

Band7-5MHz-16QAM-20775-1RB#24



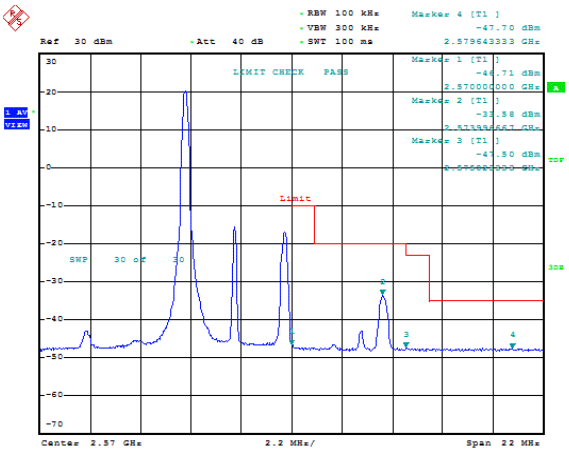
Date: 27.OCT.2020 03:48:26

Band7-5MHz-16QAM-20775-25RB#0



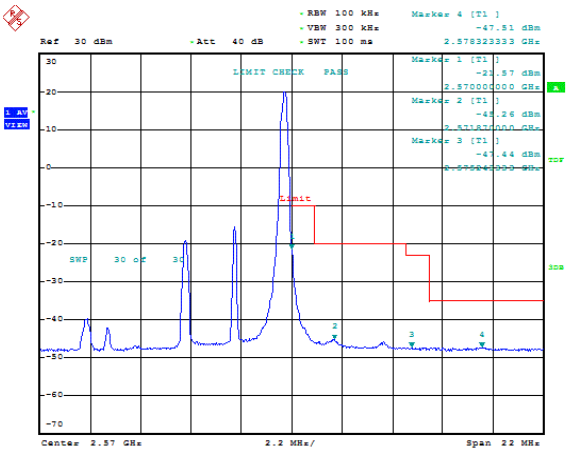
Date: 27.OCT.2020 03:48:49

Band7-5MHz-16QAM-21425-1RB#0



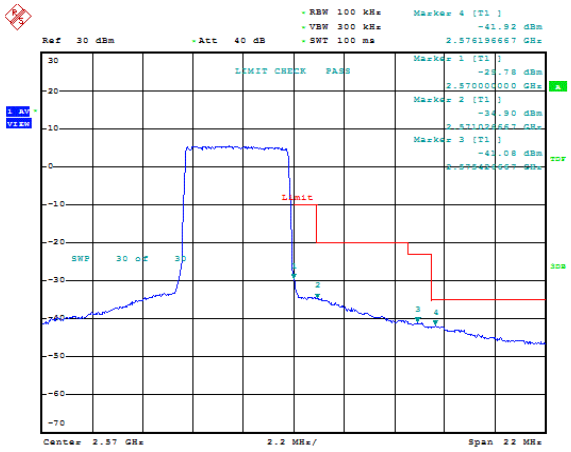
Date: 27.OCT.2020 03:49:26

Band7-5MHz-16QAM-21425-1RB#24



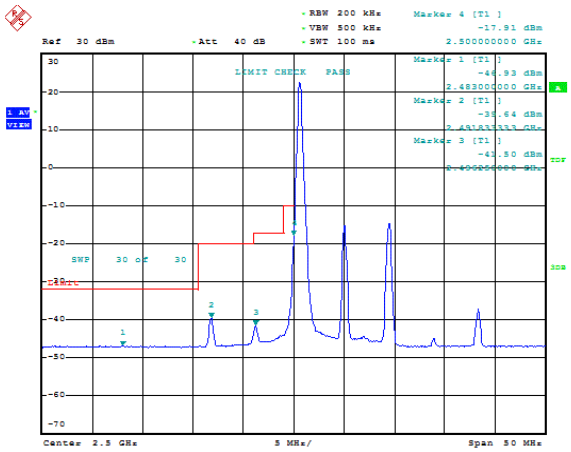
Date: 27.OCT.2020 03:49:49

Band7-5MHz-16QAM-21425-25RB#0



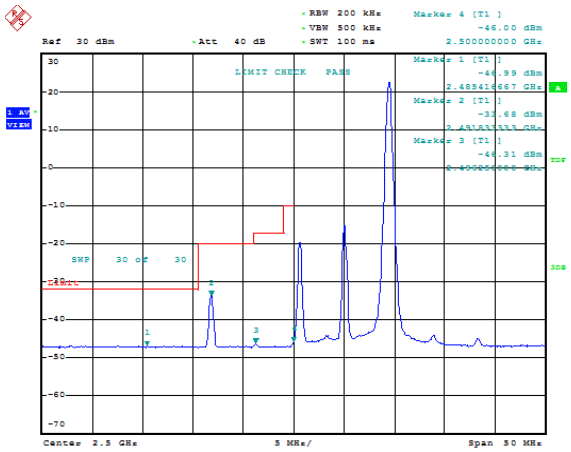
Date: 27.OCT.2020 03:50:12

Band7-10MHz-QPSK-20800-1RB#0



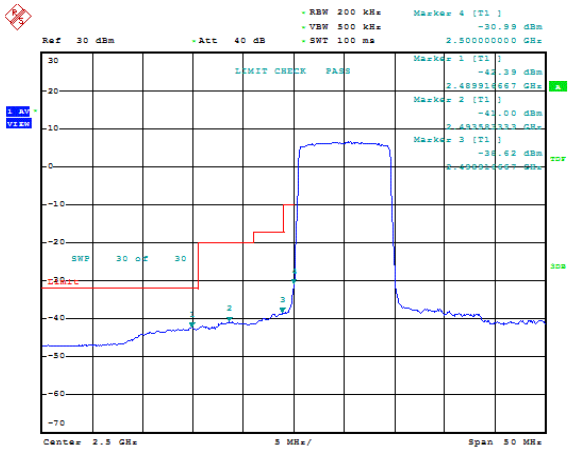
Date: 27.OCT.2020 04:04:28

Band7-10MHz-QPSK-20800-1RB#49



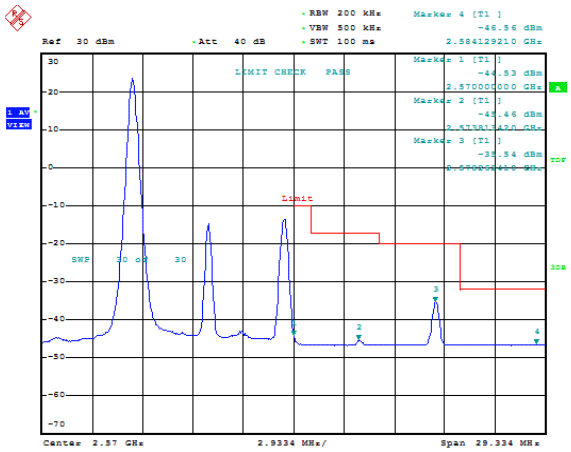
Date: 27.OCT.2020 04:04:51

Band7-10MHz-QPSK-20800-50RB#0



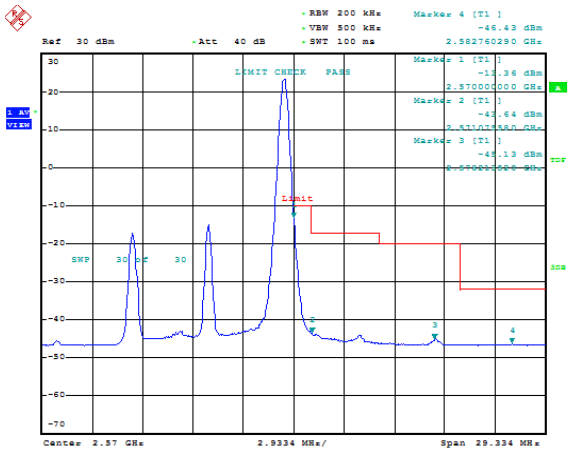
Date: 27.OCT.2020 04:05:14

Band7-10MHz-QPSK-21400-1RB#0



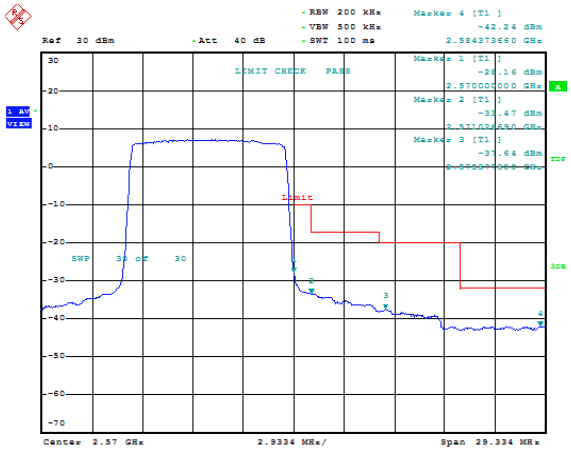
Date: 27.OCT.2020 04:05:51

Band7-10MHz-QPSK-21400-1RB#49



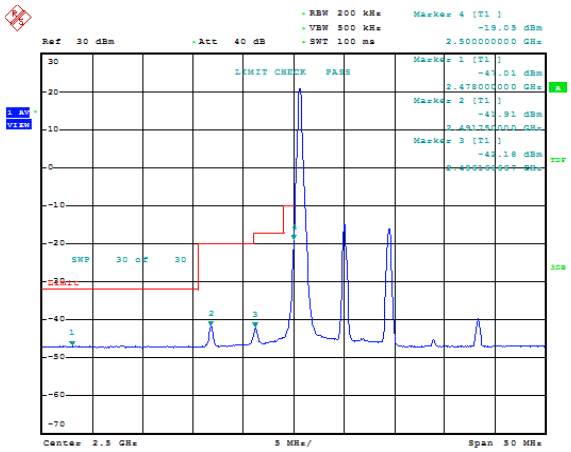
Date: 27.OCT.2020 04:06:14

Band7-10MHz-QPSK-21400-50RB#0



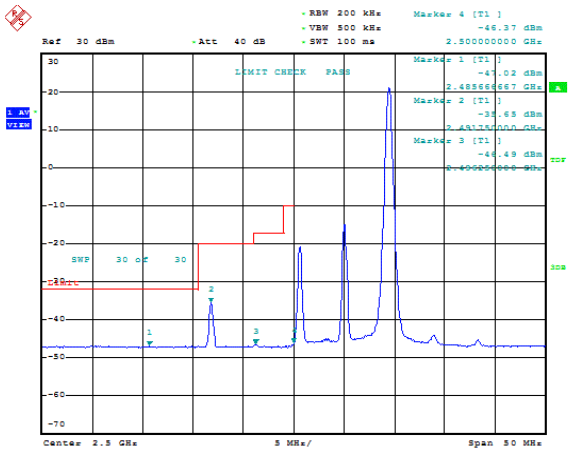
Date: 27.OCT.2020 04:06:38

Band7-10MHz-16QAM-20800-1RB#0



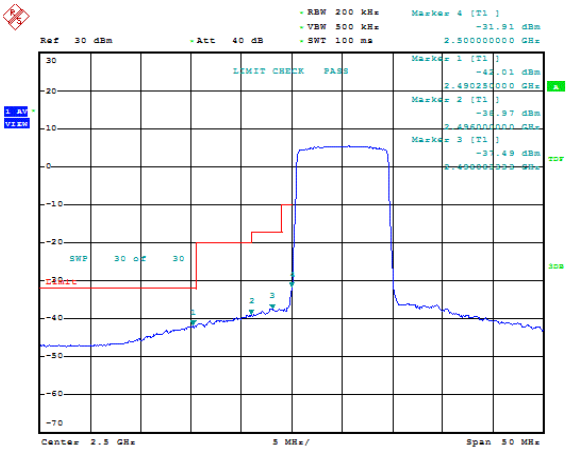
Date: 27.OCT.2020 04:04:39

Band7-10MHz-16QAM-20800-1RB#49



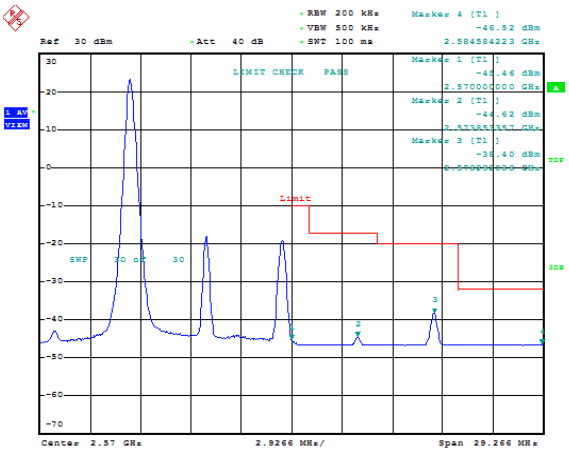
Date: 27.OCT.2020 04:05:02

Band7-10MHz-16QAM-20800-50RB#0



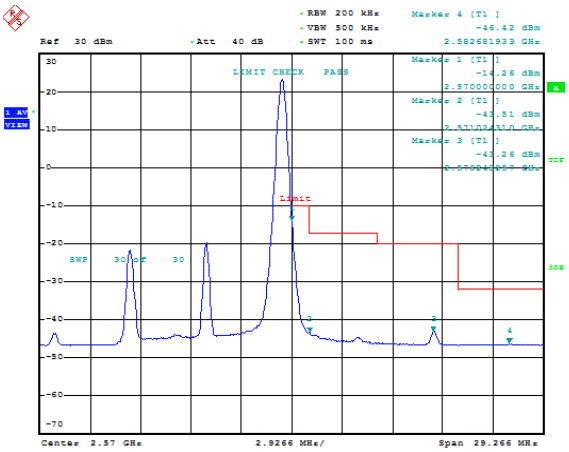
Date: 27.OCT.2020 04:05:26

Band7-10MHz-16QAM-21400-1RB#0



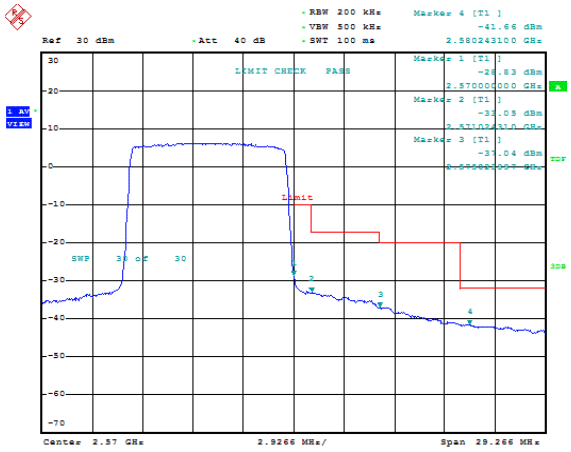
Date: 27.OCT.2020 04:06:03

Band7-10MHz-16QAM-21400-1RB#49



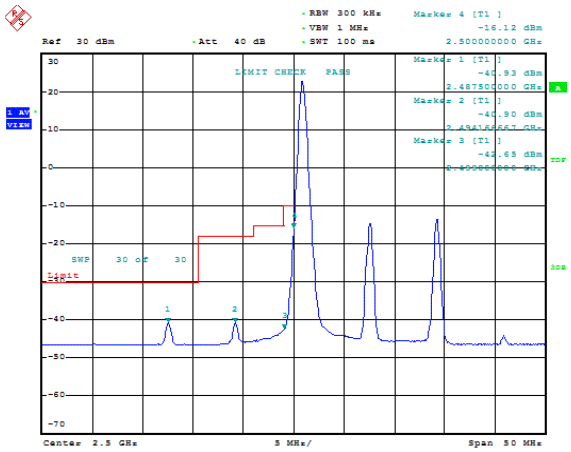
Date: 27.OCT.2020 04:06:26

Band7-10MHz-16QAM-21400-50RB#0



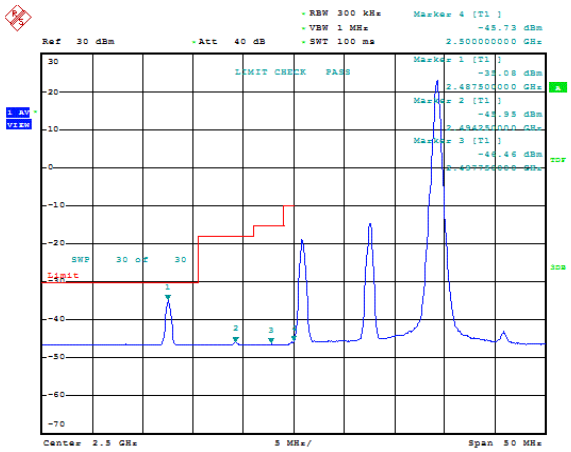
Date: 27.OCT.2020 04:06:49

Band7-15MHz-QPSK-20825-1RB#0



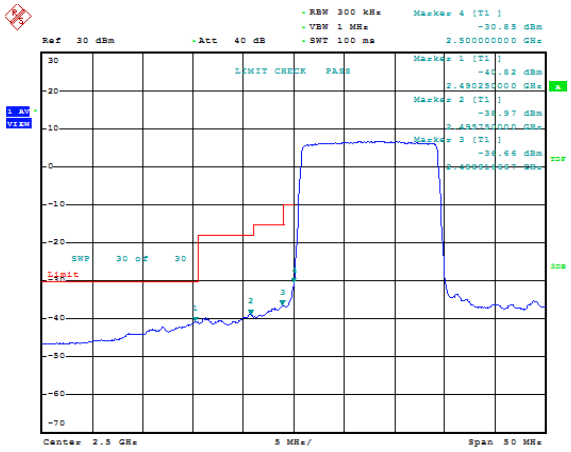
Date: 27.OCT.2020 04:21:19

Band7-15MHz-QPSK-20825-1RB#74



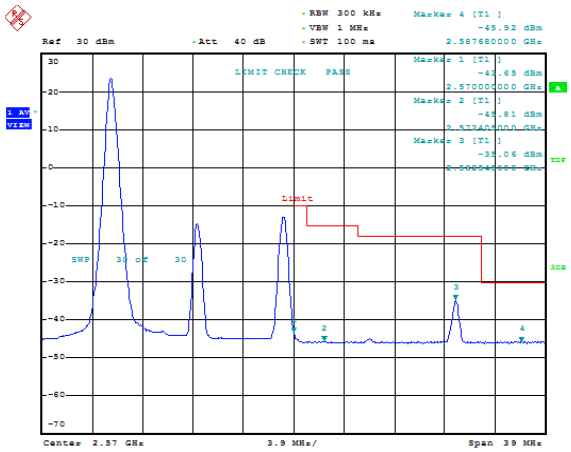
Date: 27.OCT.2020 04:21:43

Band7-15MHz-QPSK-20825-75RB#0



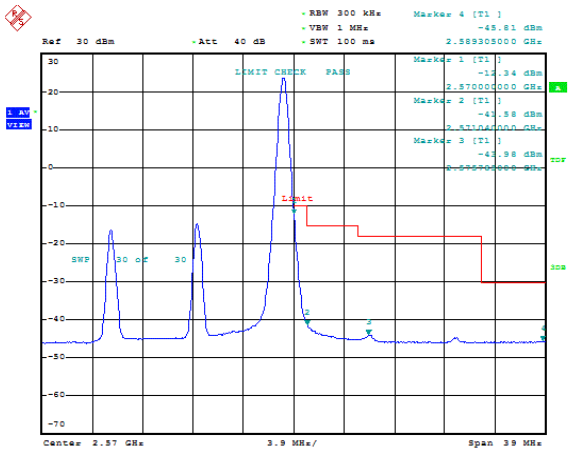
Date: 27.OCT.2020 04:22:06

Band7-15MHz-QPSK-21375-1RB#0



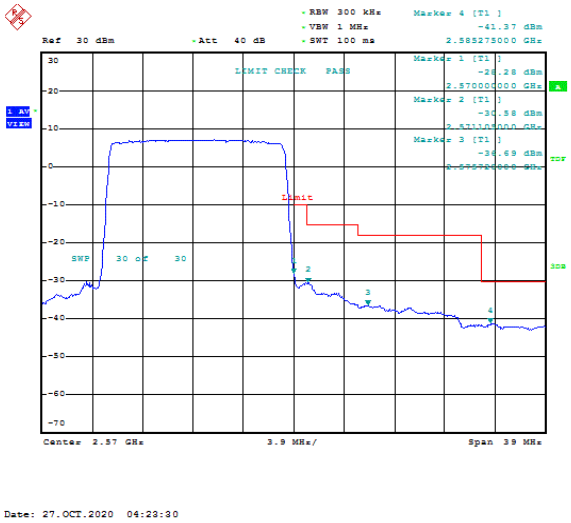
Date: 27.OCT.2020 04:22:43

Band7-15MHz-QPSK-21375-1RB#74

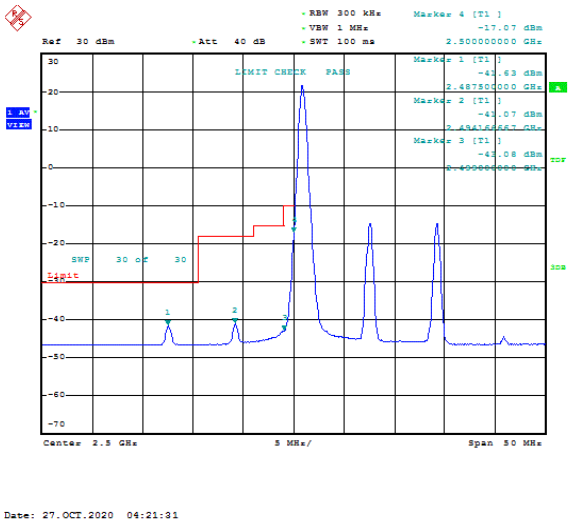


Date: 27.OCT.2020 04:23:07

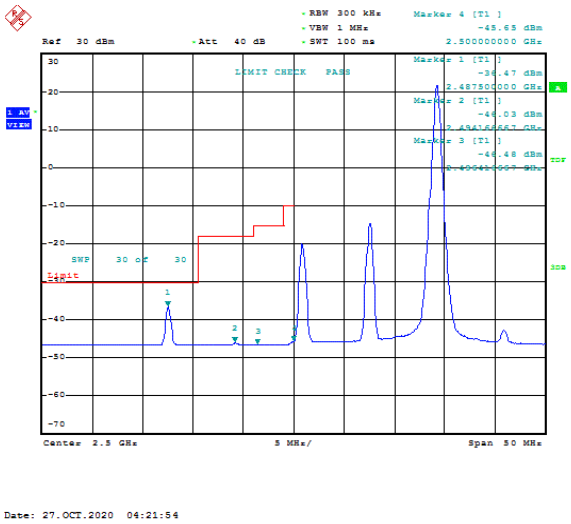
Band7-15MHz-QPSK-21375-75RB#0



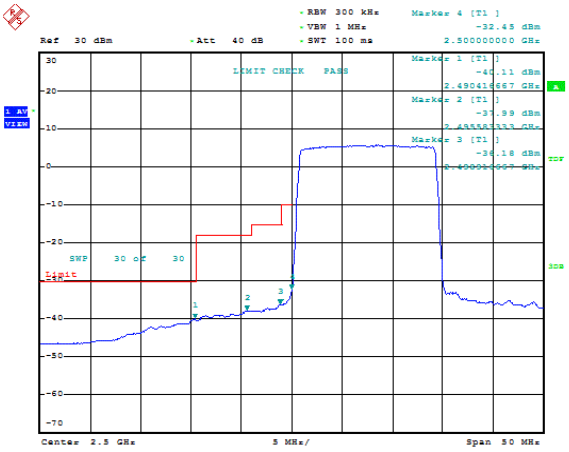
Band7-15MHz-16QAM-20825-1RB#0



Band7-15MHz-16QAM-20825-1RB#74

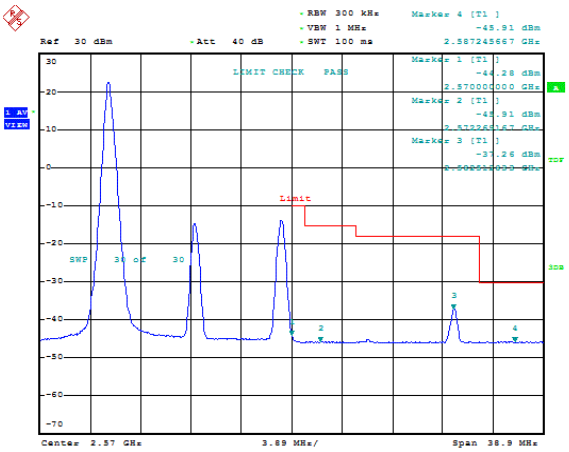


Band7-15MHz-16QAM-20825-75RB#0



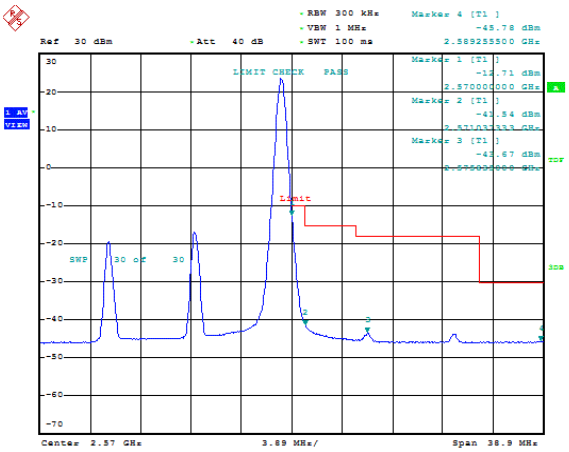
Date: 27.OCT.2020 04:22:18

Band7-15MHz-16QAM-21375-1RB#0



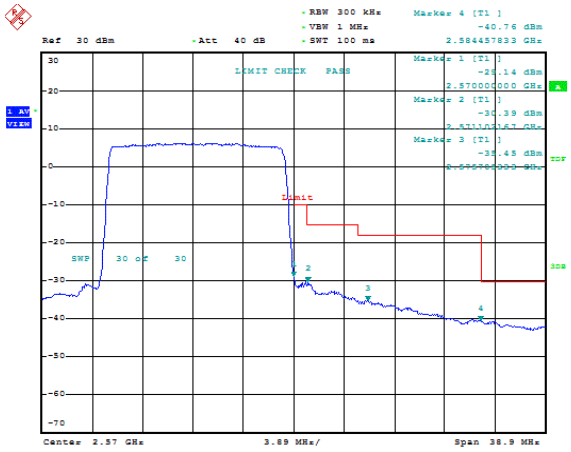
Date: 27.OCT.2020 04:22:55

Band7-15MHz-16QAM-21375-1RB#74



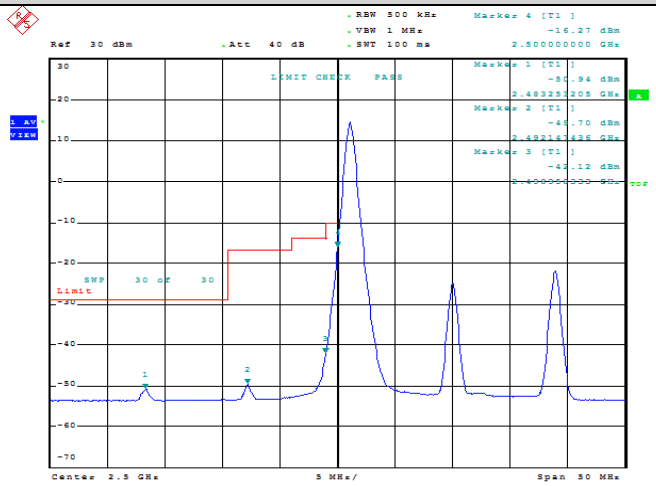
Date: 27.OCT.2020 04:23:18

Band7-15MHz-16QAM-21375-75RB#0



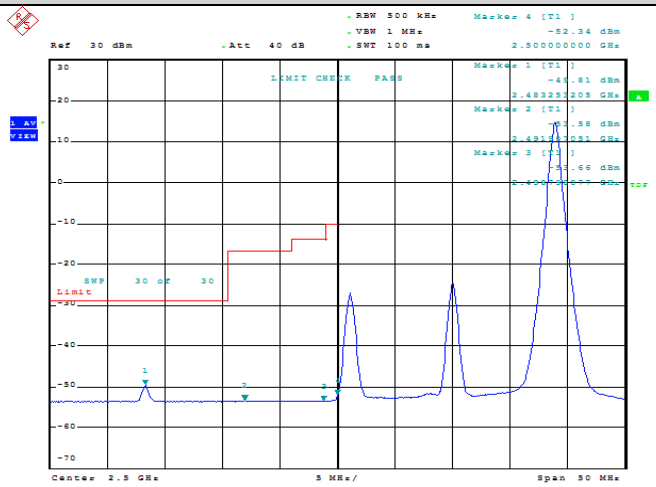
Date: 27.OCT.2020 04:23:42

Band7-20MHz-QPSK-20850-1RB#0



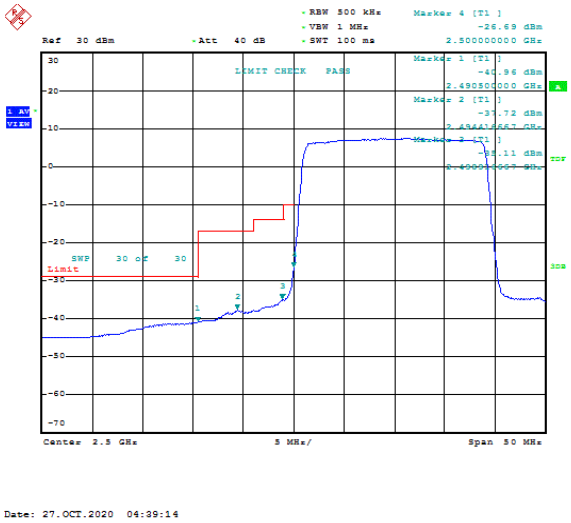
Date: 9.NOV.2020 08:38:04

Band7-20MHz-QPSK-20850-1RB#99

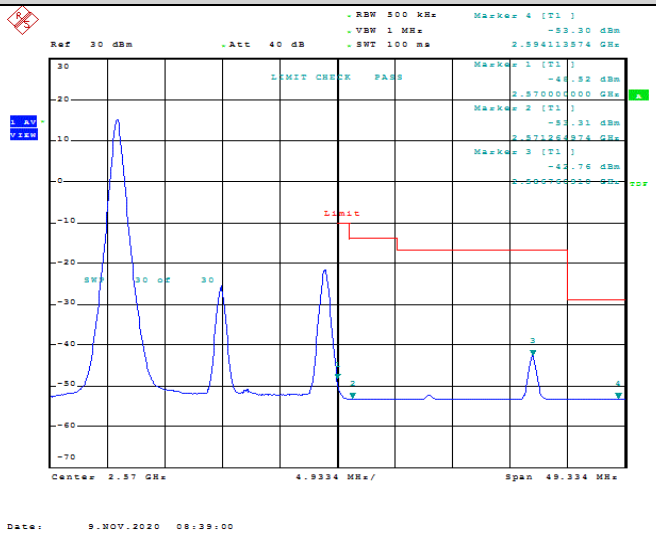


Date: 9.NOV.2020 08:38:31

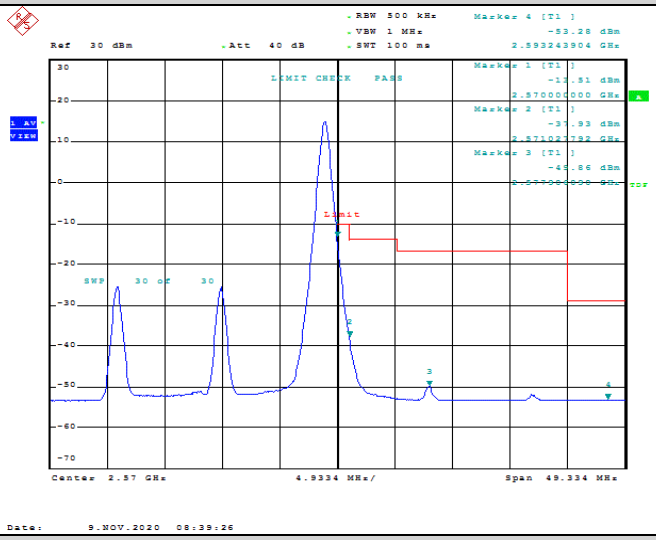
Band7-20MHz-QPSK-20850-100RB#0



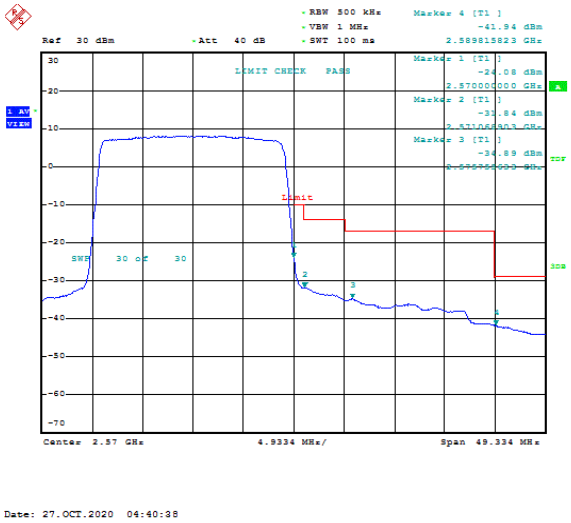
Band7-20MHz-QPSK-21350-1RB#0



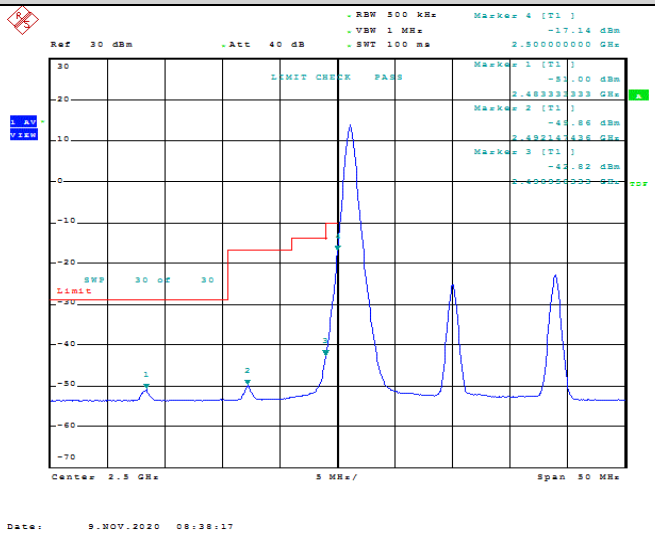
Band7-20MHz-QPSK-21350-1RB#99



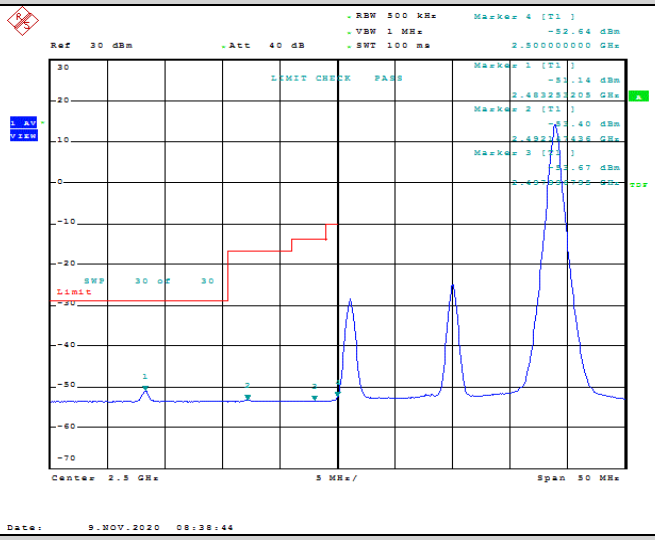
Band7-20MHz-QPSK-21350-100RB#0



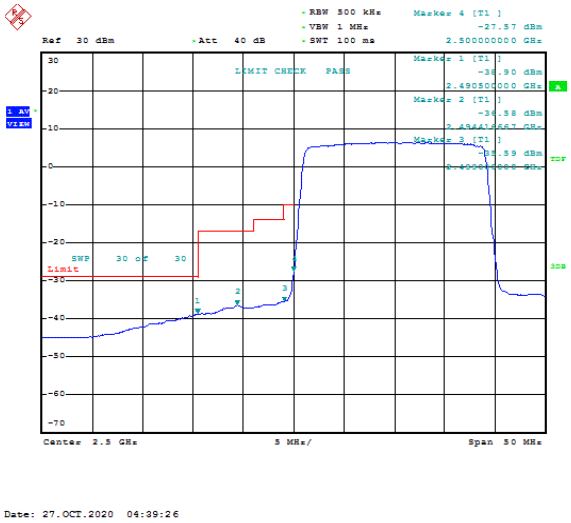
Band7-20MHz-16QAM-20850-1RB#0



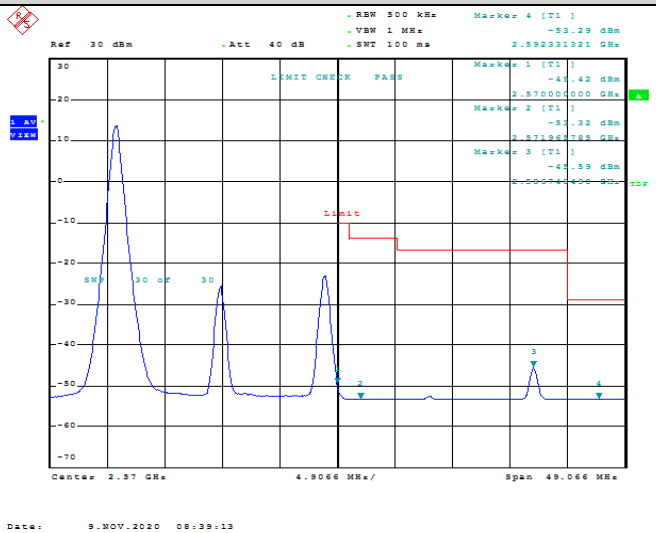
Band7-20MHz-16QAM-20850-1RB#99



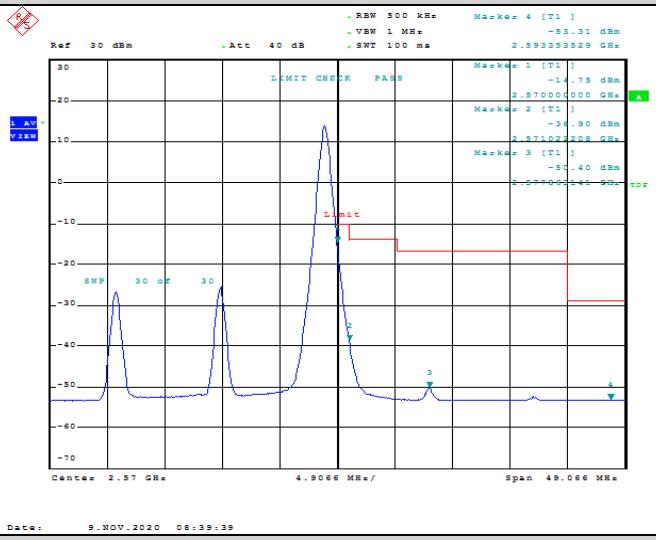
Band7-20MHz-16QAM-20850-100RB#0



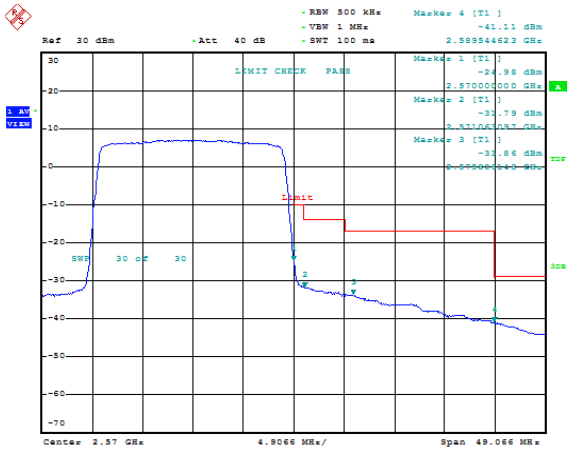
Band7-20MHz-16QAM-21350-1RB#0



Band7-20MHz-16QAM-21350-1RB#99



Band7-20MHz-16QAM-21350-100RB#0



Date: 27.OCT.2020 04:40:50

1.5. Appendix E: Conducted Spurious Emission

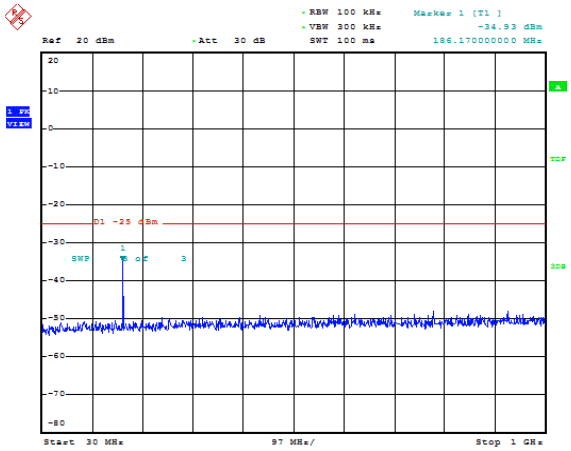
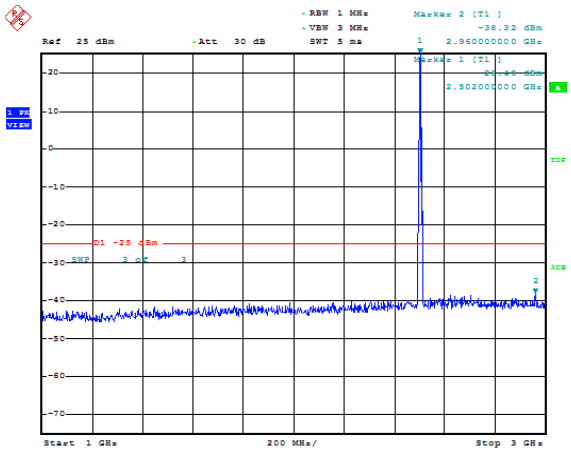
Test Result

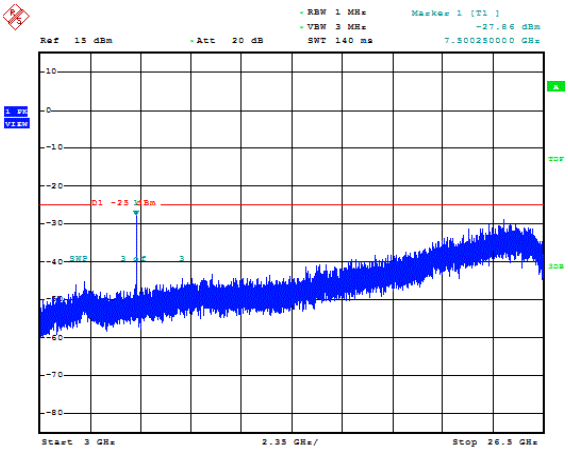
Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	Range1:30~1000MHz	-34.93	PASS
Band7	5MHz	QPSK	20775	1RB#0	Range2:1000~3000MHz	-38.32	PASS
Band7	5MHz	QPSK	20775	1RB#0	Range3:3000~26500MHz	-27.86	PASS
Band7	5MHz	QPSK	21100	1RB#0	Range1:30~1000MHz	-33.69	PASS
Band7	5MHz	QPSK	21100	1RB#0	Range2:1000~3000MHz	-39.01	PASS
Band7	5MHz	QPSK	21100	1RB#0	Range3:3000~26500MHz	-29.04	PASS
Band7	5MHz	QPSK	21425	1RB#0	Range1:30~1000MHz	-31.63	PASS
Band7	5MHz	QPSK	21425	1RB#0	Range2:1000~3000MHz	-39.11	PASS
Band7	5MHz	QPSK	21425	1RB#0	Range3:3000~26500MHz	-29.61	PASS
Band7	5MHz	16QAM	20775	1RB#0	Range1:30~1000MHz	-34.03	PASS
Band7	5MHz	16QAM	20775	1RB#0	Range2:1000~3000MHz	-38.31	PASS
Band7	5MHz	16QAM	20775	1RB#0	Range3:3000~26500MHz	-28.86	PASS
Band7	5MHz	16QAM	21100	1RB#0	Range1:30~1000MHz	-33.43	PASS
Band7	5MHz	16QAM	21100	1RB#0	Range2:1000~3000MHz	-38.7	PASS
Band7	5MHz	16QAM	21100	1RB#0	Range3:3000~26500MHz	-29.26	PASS
Band7	5MHz	16QAM	21425	1RB#0	Range1:30~1000MHz	-30.31	PASS
Band7	5MHz	16QAM	21425	1RB#0	Range2:1000~3000MHz	-38.32	PASS
Band7	5MHz	16QAM	21425	1RB#0	Range3:3000~26500MHz	-30.13	PASS
Band7	10MHz	QPSK	20800	1RB#0	Range1:30~1000MHz	-34.84	PASS
Band7	10MHz	QPSK	20800	1RB#0	Range2:1000~3000MHz	-39.02	PASS
Band7	10MHz	QPSK	20800	1RB#0	Range3:3000~26500MHz	-29.85	PASS
Band7	10MHz	QPSK	21100	1RB#0	Range1:30~1000MHz	-32.05	PASS
Band7	10MHz	QPSK	21100	1RB#0	Range2:1000~3000MHz	-38.32	PASS
Band7	10MHz	QPSK	21100	1RB#0	Range3:3000~26500MHz	-29.56	PASS
Band7	10MHz	QPSK	21400	1RB#0	Range1:30~1000MHz	-31.43	PASS
Band7	10MHz	QPSK	21400	1RB#0	Range2:1000~3000MHz	-38.92	PASS
Band7	10MHz	QPSK	21400	1RB#0	Range3:3000~26500MHz	-29.77	PASS
Band7	10MHz	16QAM	20800	1RB#0	Range1:30~1000MHz	-32.64	PASS
Band7	10MHz	16QAM	20800	1RB#0	Range2:1000~3000MHz	-38.16	PASS
Band7	10MHz	16QAM	20800	1RB#0	Range3:3000~26500MHz	-26.85	PASS
Band7	10MHz	16QAM	21100	1RB#0	Range1:30~1000MHz	-31.4	PASS
Band7	10MHz	16QAM	21100	1RB#0	Range2:1000~3000MHz	-38.9	PASS

Band7	10MHz	16QAM	21100	1RB#0	Range3:3000~26500MHz	-28.91	PASS
Band7	10MHz	16QAM	21400	1RB#0	Range1:30~1000MHz	-30.75	PASS
Band7	10MHz	16QAM	21400	1RB#0	Range2:1000~3000MHz	-38.63	PASS
Band7	10MHz	16QAM	21400	1RB#0	Range3:3000~26500MHz	-29.73	PASS
Band7	15MHz	QPSK	20825	1RB#0	Range1:30~1000MHz	-35.16	PASS
Band7	15MHz	QPSK	20825	1RB#0	Range2:1000~3000MHz	-38.6	PASS
Band7	15MHz	QPSK	20825	1RB#0	Range3:3000~26500MHz	-29.02	PASS
Band7	15MHz	QPSK	21100	1RB#0	Range1:30~1000MHz	-33.09	PASS
Band7	15MHz	QPSK	21100	1RB#0	Range2:1000~3000MHz	-38.91	PASS
Band7	15MHz	QPSK	21100	1RB#0	Range3:3000~26500MHz	-28.62	PASS
Band7	15MHz	QPSK	21375	1RB#0	Range1:30~1000MHz	-31.16	PASS
Band7	15MHz	QPSK	21375	1RB#0	Range2:1000~3000MHz	-38.23	PASS
Band7	15MHz	QPSK	21375	1RB#0	Range3:3000~26500MHz	-29.62	PASS
Band7	15MHz	16QAM	20825	1RB#0	Range1:30~1000MHz	-34.8	PASS
Band7	15MHz	16QAM	20825	1RB#0	Range2:1000~3000MHz	-37.91	PASS
Band7	15MHz	16QAM	20825	1RB#0	Range3:3000~26500MHz	-29.74	PASS
Band7	15MHz	16QAM	21100	1RB#0	Range1:30~1000MHz	-31.1	PASS
Band7	15MHz	16QAM	21100	1RB#0	Range2:1000~3000MHz	-38.27	PASS
Band7	15MHz	16QAM	21100	1RB#0	Range3:3000~26500MHz	-29.34	PASS
Band7	15MHz	16QAM	21375	1RB#0	Range1:30~1000MHz	-29.63	PASS
Band7	15MHz	16QAM	21375	1RB#0	Range2:1000~3000MHz	-39.01	PASS
Band7	15MHz	16QAM	21375	1RB#0	Range3:3000~26500MHz	-30.03	PASS
Band7	20MHz	QPSK	20850	1RB#0	Range1:30~1000MHz	-34.44	PASS
Band7	20MHz	QPSK	20850	1RB#0	Range2:1000~3000MHz	-38.41	PASS
Band7	20MHz	QPSK	20850	1RB#0	Range3:3000~26500MHz	-29.2	PASS
Band7	20MHz	QPSK	21100	1RB#0	Range1:30~1000MHz	-33.14	PASS
Band7	20MHz	QPSK	21100	1RB#0	Range2:1000~3000MHz	-38.91	PASS
Band7	20MHz	QPSK	21100	1RB#0	Range3:3000~26500MHz	-29.92	PASS
Band7	20MHz	QPSK	21350	1RB#0	Range1:30~1000MHz	-33.25	PASS
Band7	20MHz	QPSK	21350	1RB#0	Range2:1000~3000MHz	-38.64	PASS
Band7	20MHz	QPSK	21350	1RB#0	Range3:3000~26500MHz	-29.32	PASS
Band7	20MHz	16QAM	20850	1RB#0	Range1:30~1000MHz	-34.19	PASS
Band7	20MHz	16QAM	20850	1RB#0	Range2:1000~3000MHz	-38.37	PASS
Band7	20MHz	16QAM	20850	1RB#0	Range3:3000~26500MHz	-26.94	PASS
Band7	20MHz	16QAM	21100	1RB#0	Range1:30~1000MHz	-31.6	PASS
Band7	20MHz	16QAM	21100	1RB#0	Range2:1000~3000MHz	-38.07	PASS
Band7	20MHz	16QAM	21100	1RB#0	Range3:3000~26500MHz	-28.78	PASS
Band7	20MHz	16QAM	21350	1RB#0	Range1:30~1000MHz	-30.78	PASS

Band7	20MHz	16QAM	21350	1RB#0	Range2:1000~3000MHz	-39.06	PASS
Band7	20MHz	16QAM	21350	1RB#0	Range3:3000~26500MHz	-28.61	PASS

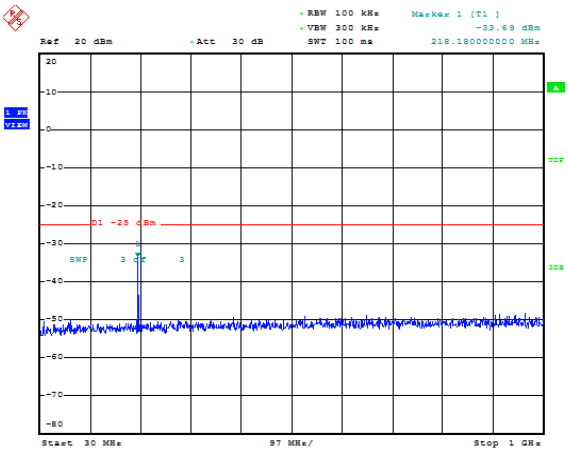
Test Graphs

Band7-5MHz-QPSK-20775-1RB#0-Range1:30~1000MHz
 Date: 31.OCT.2020 14:39:54
Band7-5MHz-QPSK-20775-1RB#0-Range2:1000~3000MHz
 Date: 31.OCT.2020 14:40:02
Band7-5MHz-QPSK-20775-1RB#0-Range3:3000~26500MHz



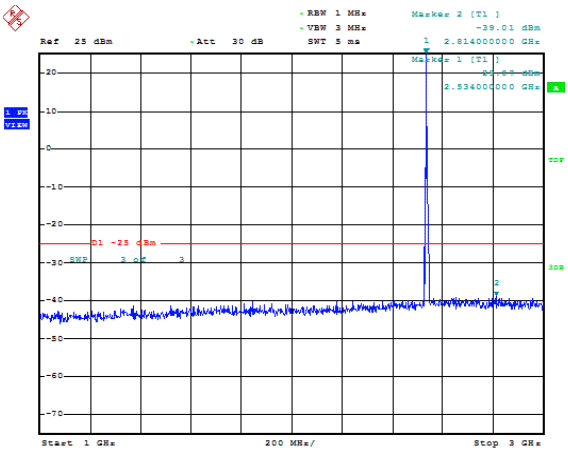
Date: 31.OCT.2020 14:40:10

Band7-5MHz-QPSK-21100-1RB#0-Range1:30~1000MHz



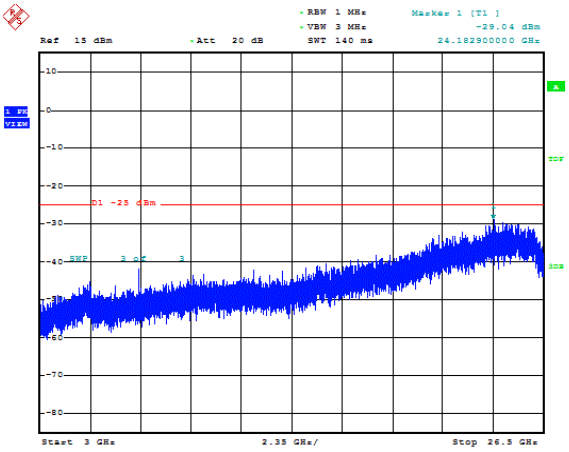
Date: 31.OCT.2020 14:40:47

Band7-5MHz-QPSK-21100-1RB#0-Range2:1000~3000MHz



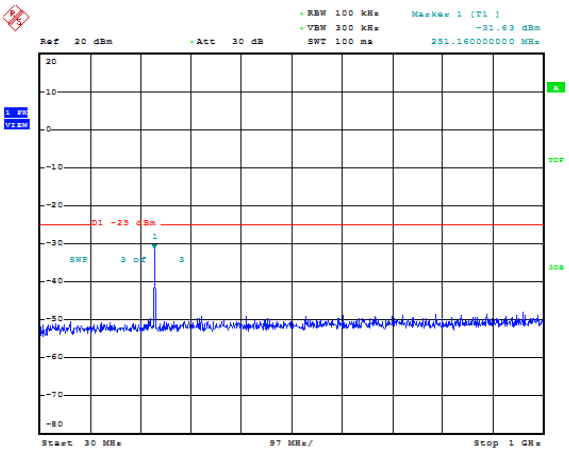
Date: 31.OCT.2020 14:40:55

Band7-5MHz-QPSK-21100-1RB#0-Range3:3000~26500MHz



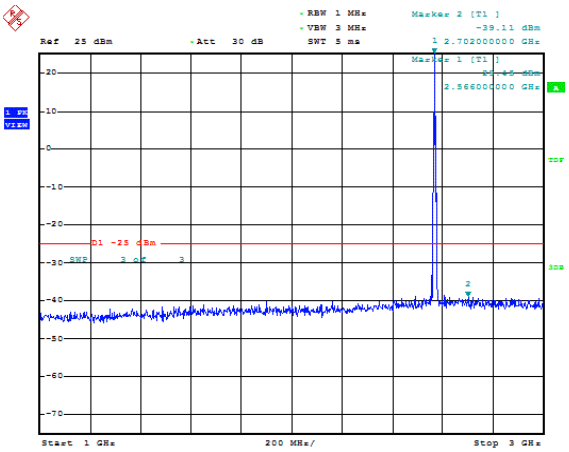
Date: 31.OCT.2020 14:41:03

Band7-5MHz-QPSK-21425-1RB#0-Range1:30~1000MHz



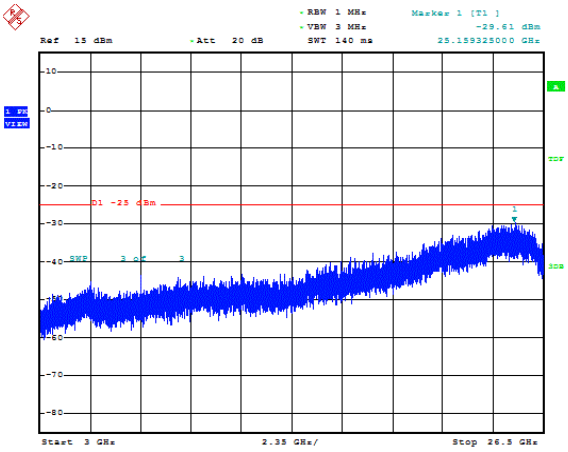
Date: 31.OCT.2020 14:41:40

Band7-5MHz-QPSK-21425-1RB#0-Range2:1000~3000MHz



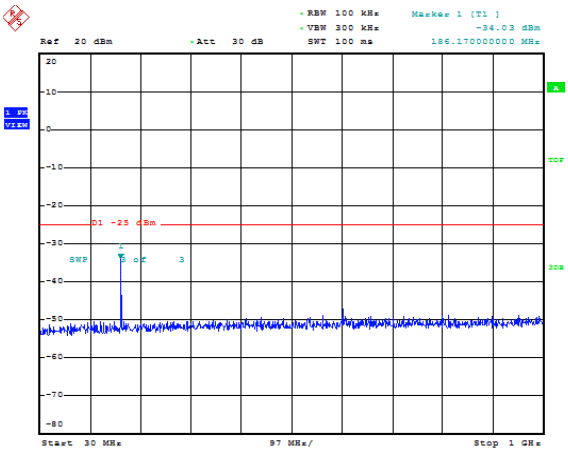
Date: 31.OCT.2020 14:41:48

Band7-5MHz-QPSK-21425-1RB#0-Range3:3000~26500MHz



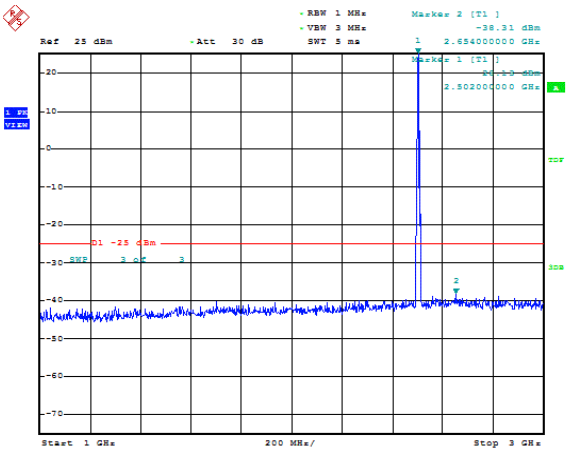
Date: 31.OCT.2020 14:41:56

Band7-5MHz-16QAM-20775-1RB#0-Range1:30~1000MHz



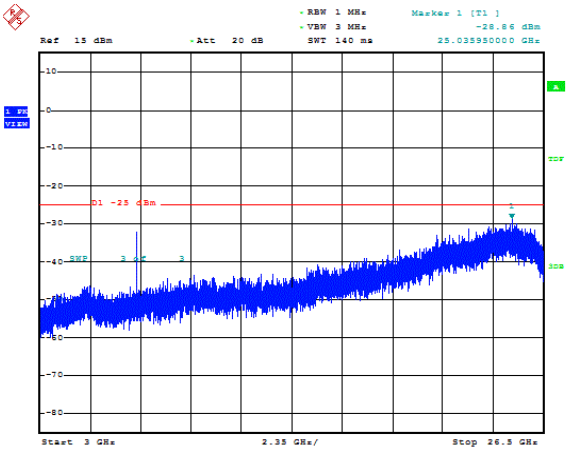
Date: 31.OCT.2020 14:40:19

Band7-5MHz-16QAM-20775-1RB#0-Range2:1000~3000MHz



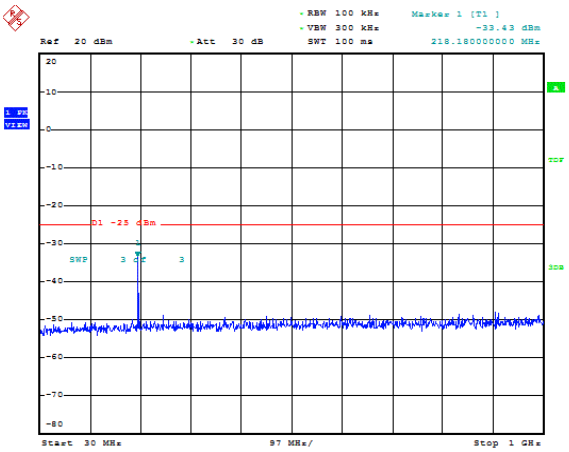
Date: 31.OCT.2020 14:40:27

Band7-5MHz-16QAM-20775-1RB#0-Range3:3000~26500MHz



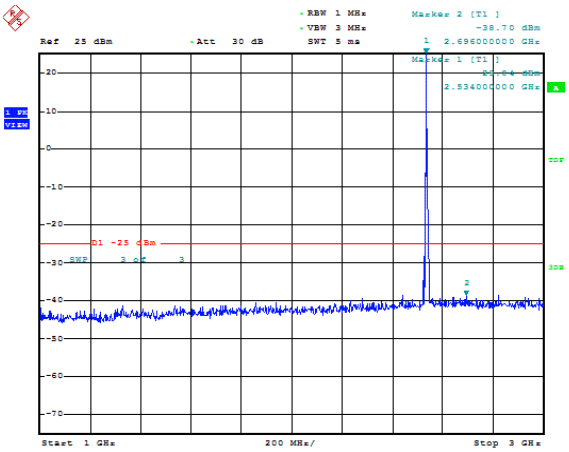
Date: 31.OCT.2020 14:40:35

Band7-5MHz-16QAM-21100-1RB#0-Range1:30~1000MHz



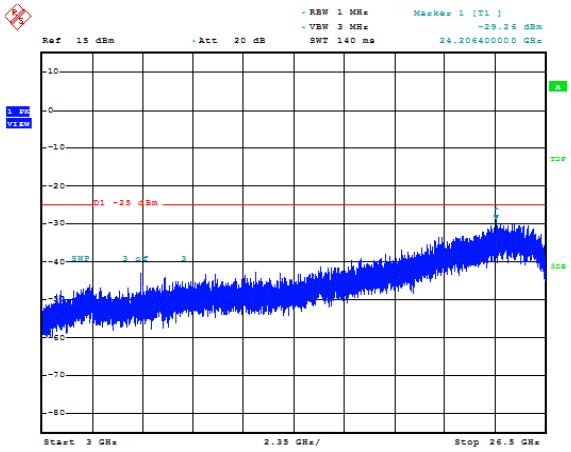
Date: 31.OCT.2020 14:41:12

Band7-5MHz-16QAM-21100-1RB#0-Range2:1000~3000MHz



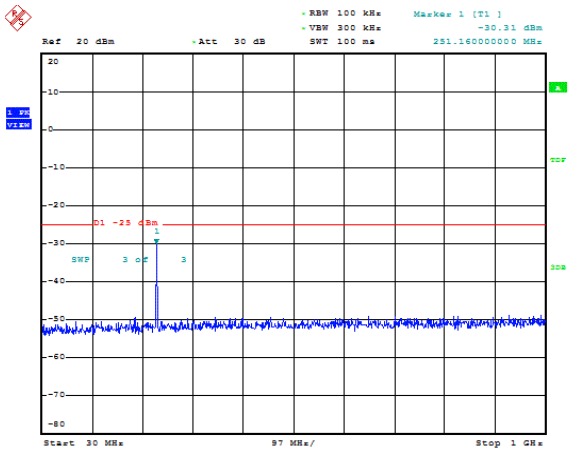
Date: 31.OCT.2020 14:41:20

Band7-5MHz-16QAM-21100-1RB#0-Range3:3000~26500MHz



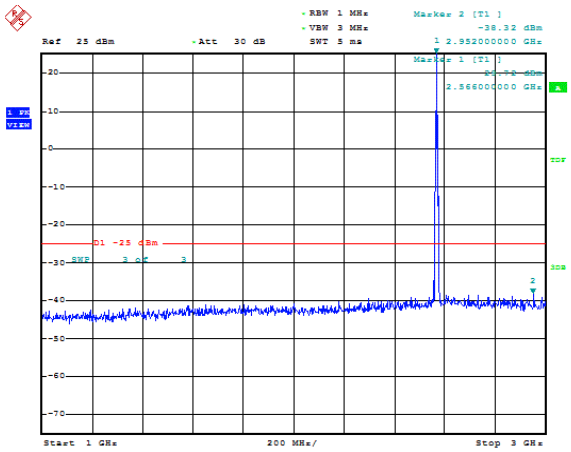
Date: 31.OCT.2020 14:41:28

Band7-5MHz-16QAM-21425-1RB#0-Range1:30~1000MHz



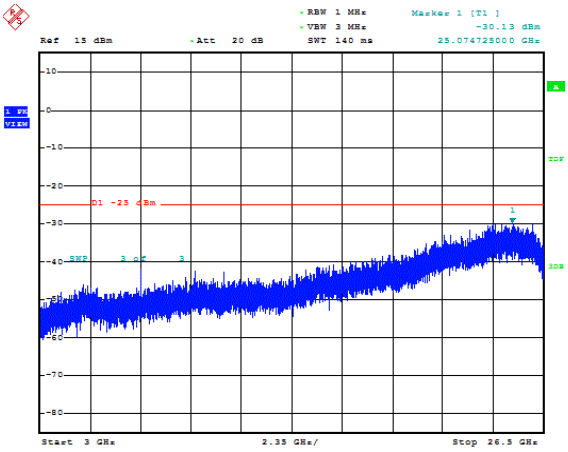
Date: 31.OCT.2020 14:42:05

Band7-5MHz-16QAM-21425-1RB#0-Range2:1000~3000MHz



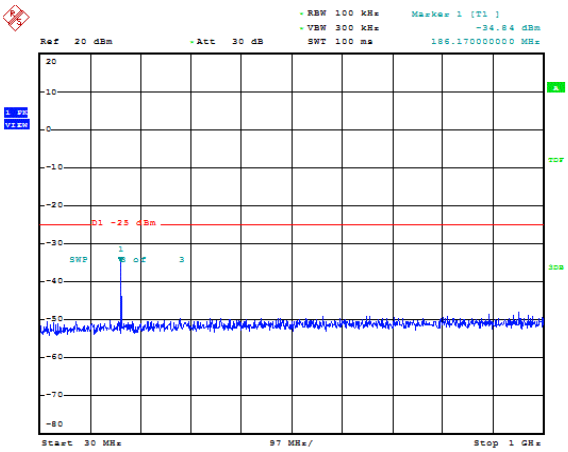
Date: 31.OCT.2020 14:42:13

Band7-5MHz-16QAM-21425-1RB#0-Range3:3000~26500MHz



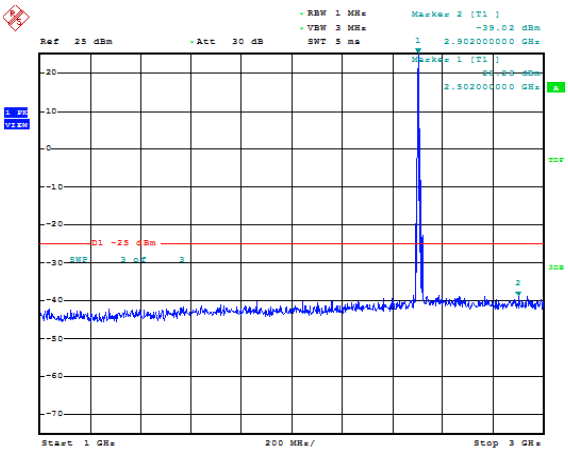
Date: 31.OCT.2020 14:42:21

Band7-10MHz-QPSK-20800-1RB#0-Range1:30~1000MHz



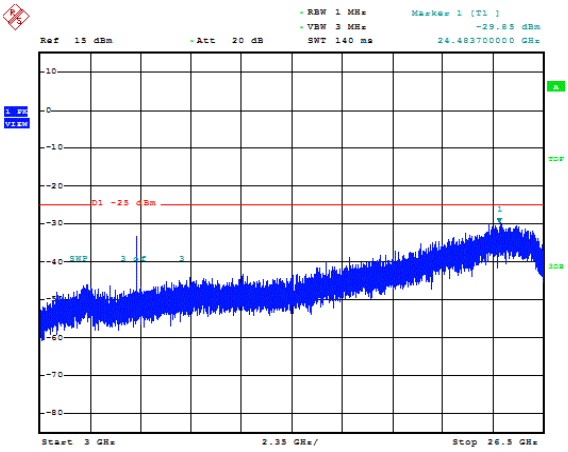
Date: 31.OCT.2020 14:44:21

Band7-10MHz-QPSK-20800-1RB#0-Range2:1000~3000MHz



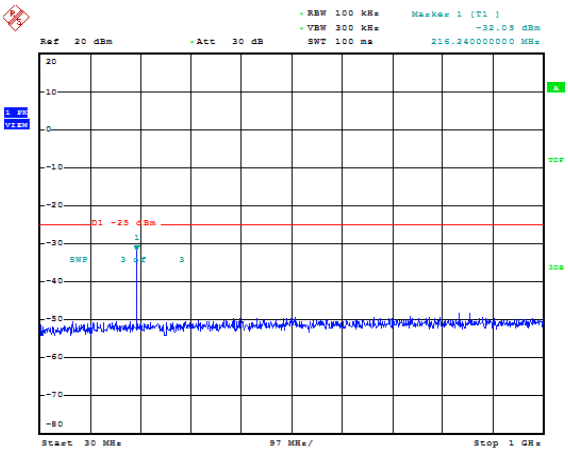
Date: 31.OCT.2020 14:44:29

Band7-10MHz-QPSK-20800-1RB#0-Range3:3000~26500MHz



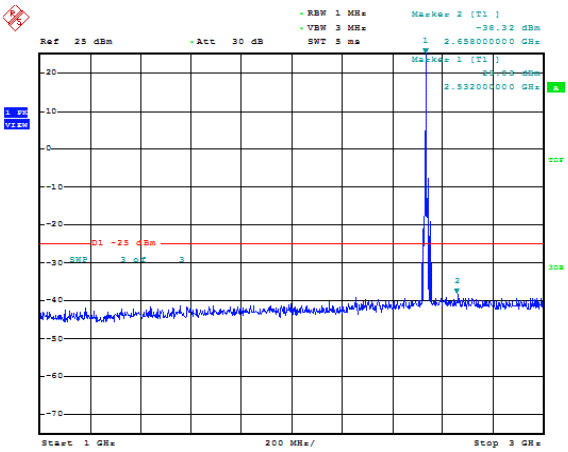
Date: 31.OCT.2020 14:44:37

Band7-10MHz-QPSK-21100-1RB#0-Range1:30~1000MHz



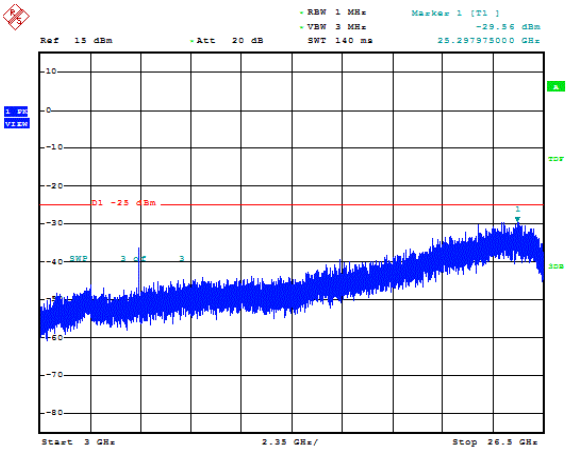
Date: 31.OCT.2020 14:45:14

Band7-10MHz-QPSK-21100-1RB#0-Range2:1000~3000MHz



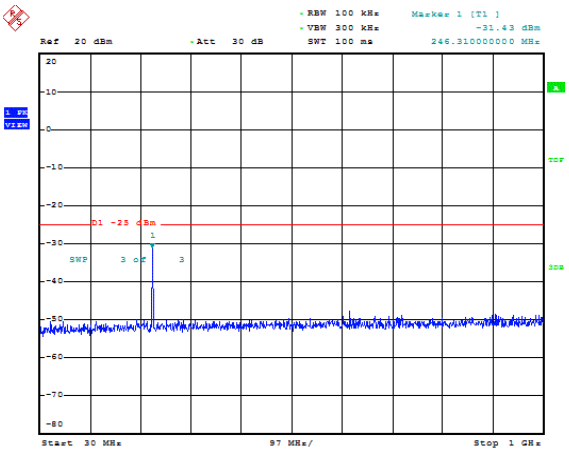
Date: 31.OCT.2020 14:45:22

Band7-10MHz-QPSK-21100-1RB#0-Range3:3000~26500MHz



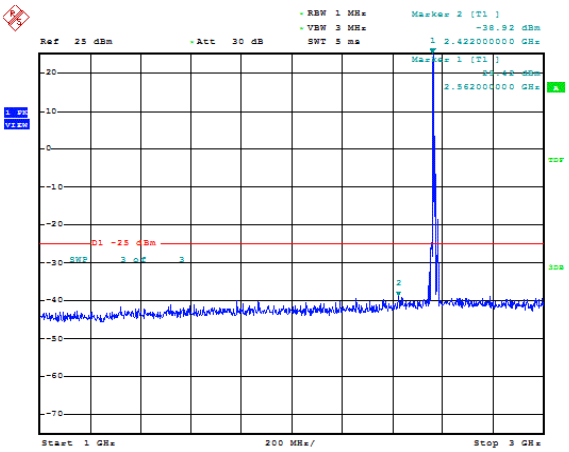
Date: 31.OCT.2020 14:45:30

Band7-10MHz-QPSK-21400-1RB#0-Range1:30~1000MHz



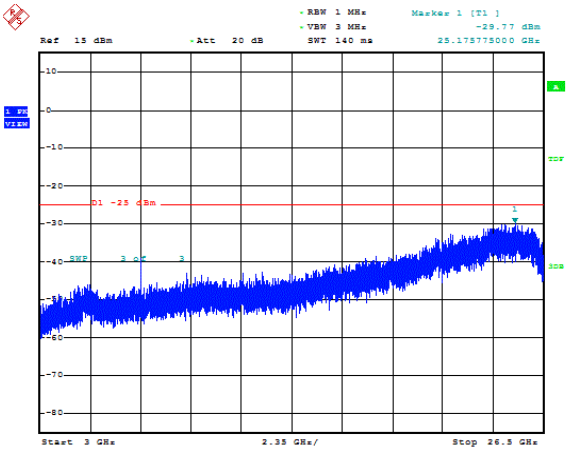
Date: 31.OCT.2020 14:46:07

Band7-10MHz-QPSK-21400-1RB#0-Range2:1000~3000MHz



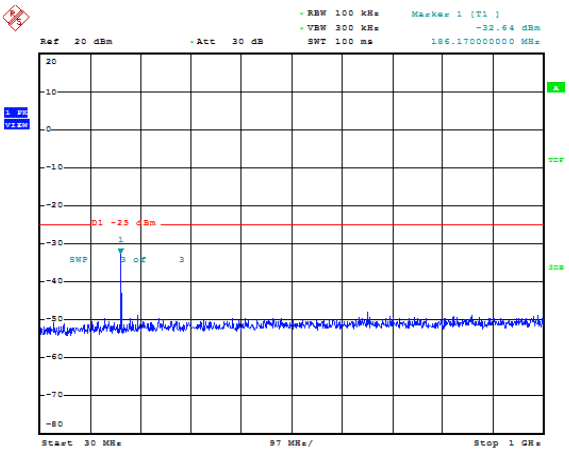
Date: 31.OCT.2020 14:46:15

Band7-10MHz-QPSK-21400-1RB#0-Range3:3000~26500MHz



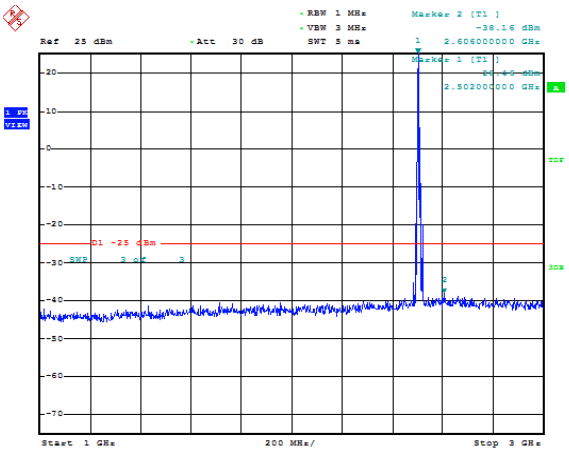
Date: 31.OCT.2020 14:46:23

Band7-10MHz-16QAM-20800-1RB#0-Range1:30~1000MHz



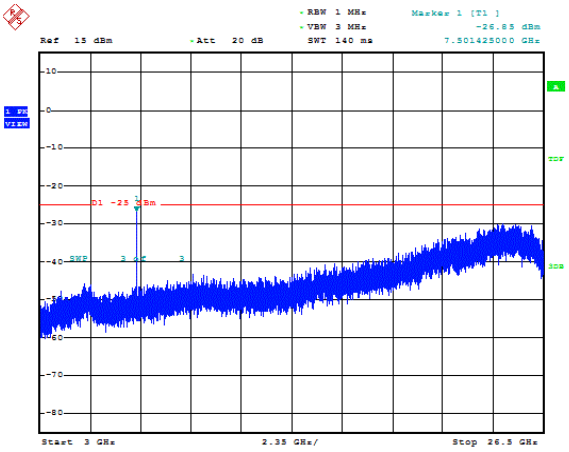
Date: 31.OCT.2020 14:44:46

Band7-10MHz-16QAM-20800-1RB#0-Range2:1000~3000MHz



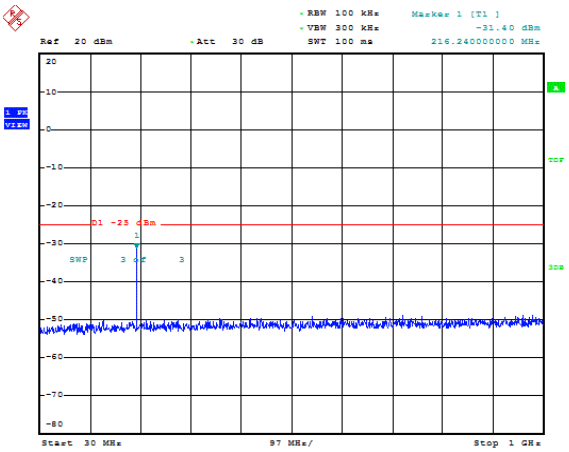
Date: 31.OCT.2020 14:44:55

Band7-10MHz-16QAM-20800-1RB#0-Range3:3000~26500MHz



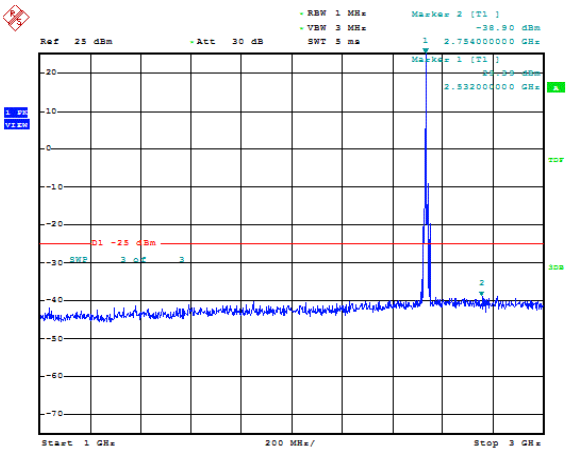
Date: 31.OCT.2020 14:45:03

Band7-10MHz-16QAM-21100-1RB#0-Range1:30~1000MHz



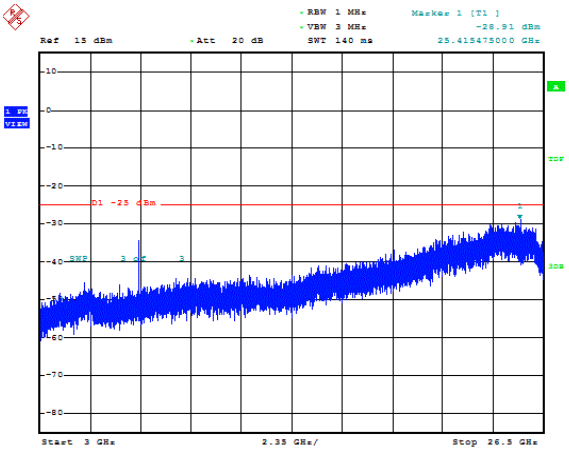
Date: 31.OCT.2020 14:45:39

Band7-10MHz-16QAM-21100-1RB#0-Range2:1000~3000MHz



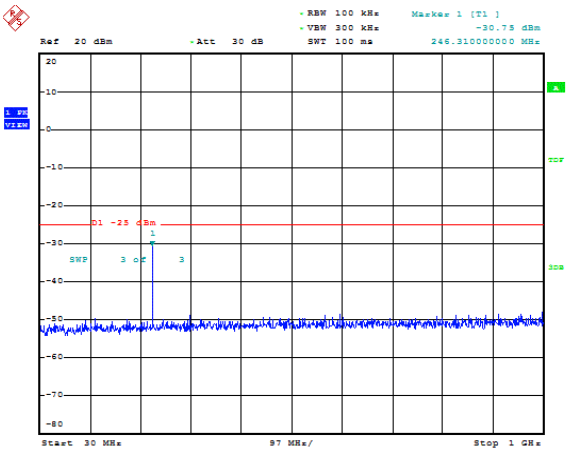
Date: 31.OCT.2020 14:45:48

Band7-10MHz-16QAM-21100-1RB#0-Range3:3000~26500MHz



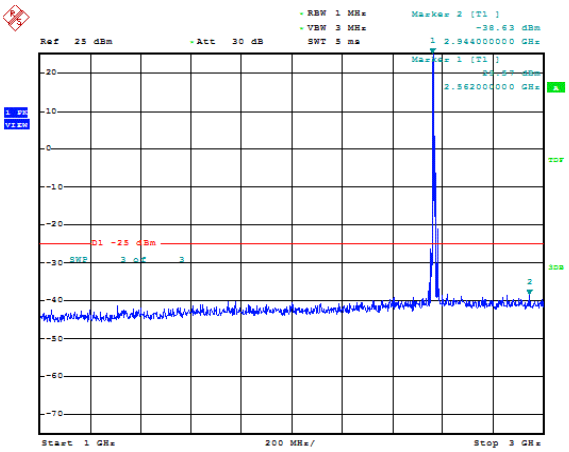
Date: 31.OCT.2020 14:45:56

Band7-10MHz-16QAM-21400-1RB#0-Range1:30~1000MHz



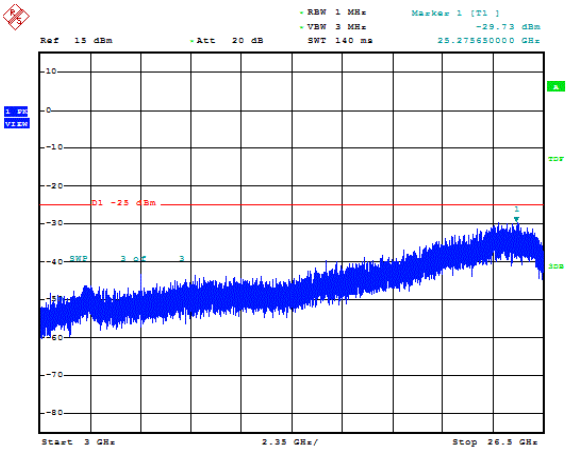
Date: 31.OCT.2020 14:46:32

Band7-10MHz-16QAM-21400-1RB#0-Range2:1000~3000MHz



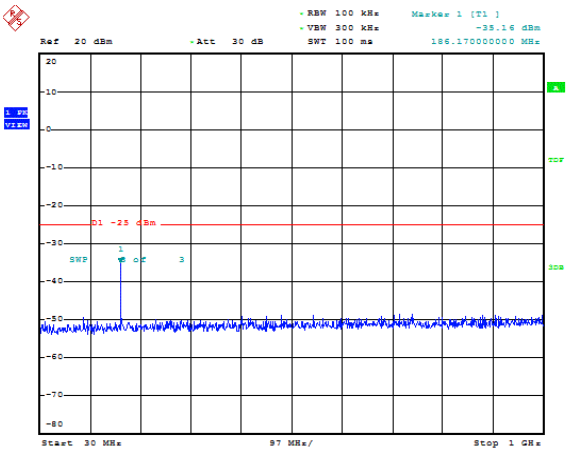
Date: 31.OCT.2020 14:46:41

Band7-10MHz-16QAM-21400-1RB#0-Range3:3000~26500MHz



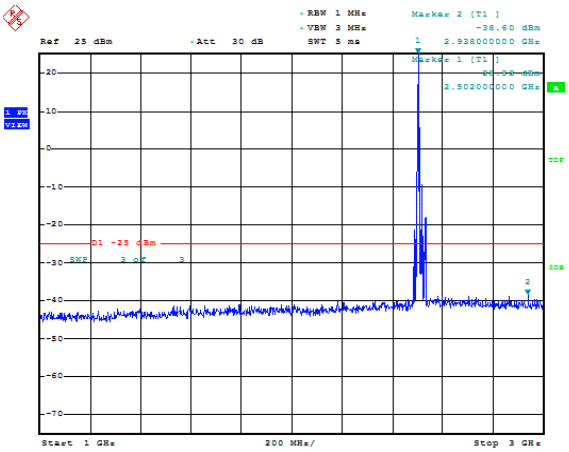
Date: 31.OCT.2020 14:46:49

Band7-15MHz-QPSK-20825-1RB#0-Range1:30~1000MHz



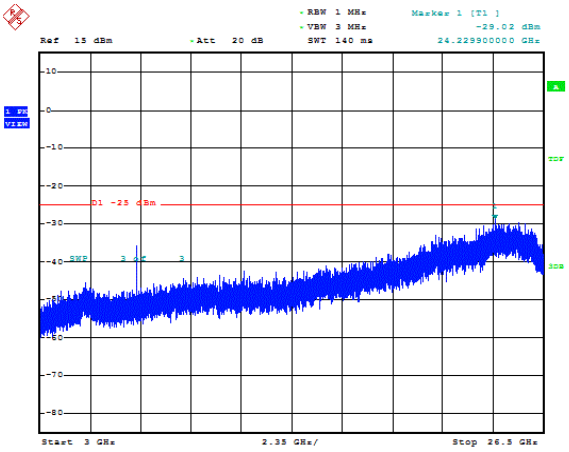
Date: 31.OCT.2020 14:48:52

Band7-15MHz-QPSK-20825-1RB#0-Range2:1000~3000MHz



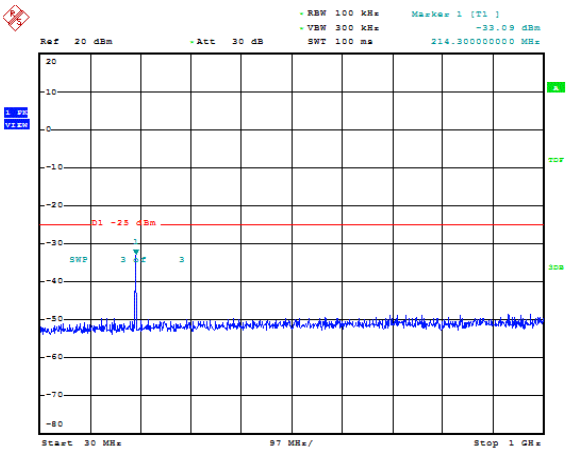
Date: 31.OCT.2020 14:49:00

Band7-15MHz-QPSK-20825-1RB#0-Range3:3000~26500MHz



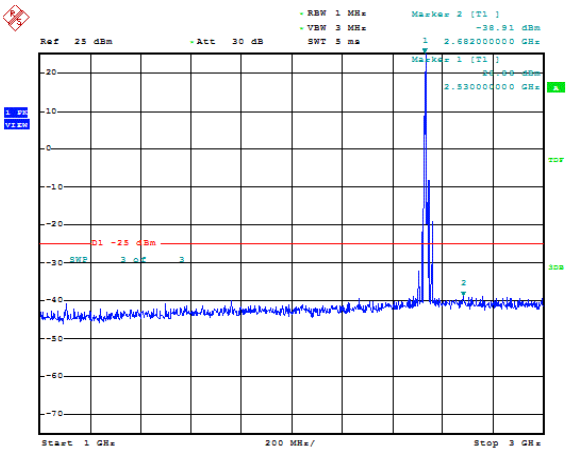
Date: 31.OCT.2020 14:49:08

Band7-15MHz-QPSK-21100-1RB#0-Range1:30~1000MHz



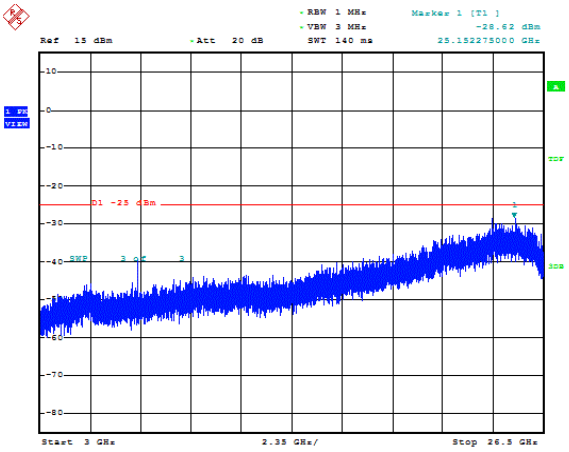
Date: 31.OCT.2020 14:49:44

Band7-15MHz-QPSK-21100-1RB#0-Range2:1000~3000MHz



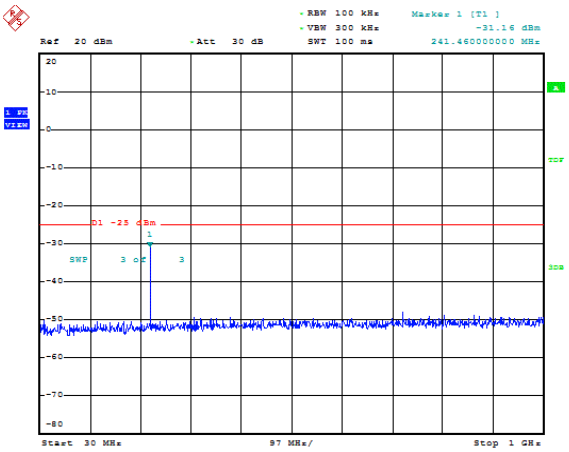
Date: 31.OCT.2020 14:49:52

Band7-15MHz-QPSK-21100-1RB#0-Range3:3000~26500MHz



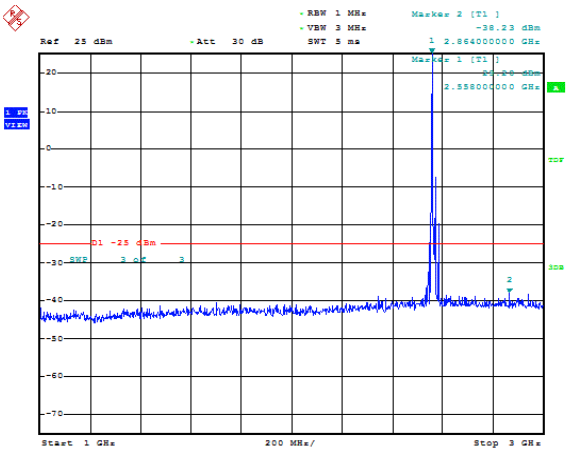
Date: 31.OCT.2020 14:50:00

Band7-15MHz-QPSK-21375-1RB#0-Range1:30~1000MHz



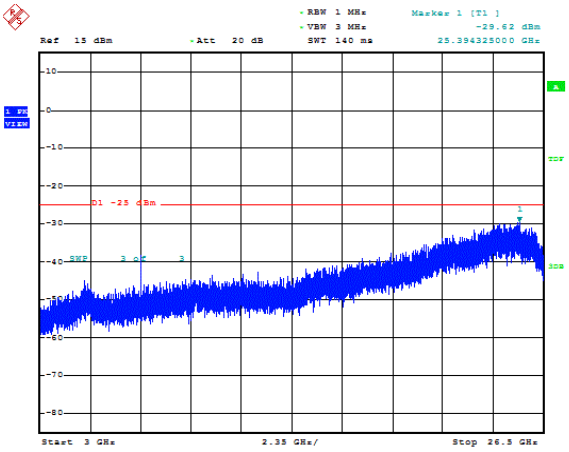
Date: 31.OCT.2020 14:50:37

Band7-15MHz-QPSK-21375-1RB#0-Range2:1000~3000MHz



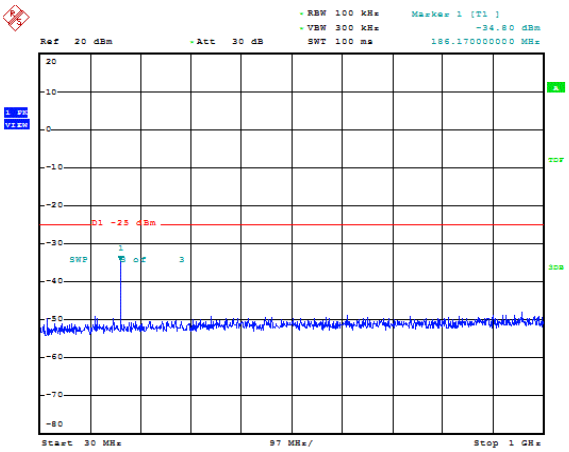
Date: 31.OCT.2020 14:50:45

Band7-15MHz-QPSK-21375-1RB#0-Range3:3000~26500MHz



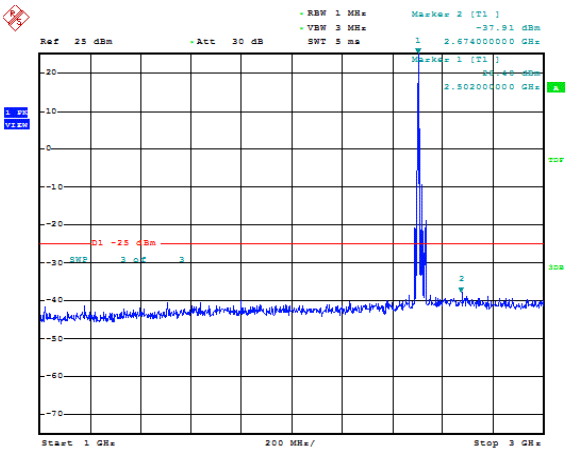
Date: 31.OCT.2020 14:50:53

Band7-15MHz-16QAM-20825-1RB#0-Range1:30~1000MHz



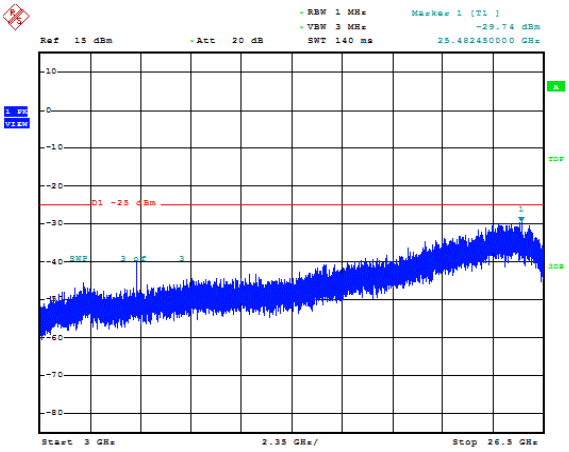
Date: 31.OCT.2020 14:49:17

Band7-15MHz-16QAM-20825-1RB#0-Range2:1000~3000MHz



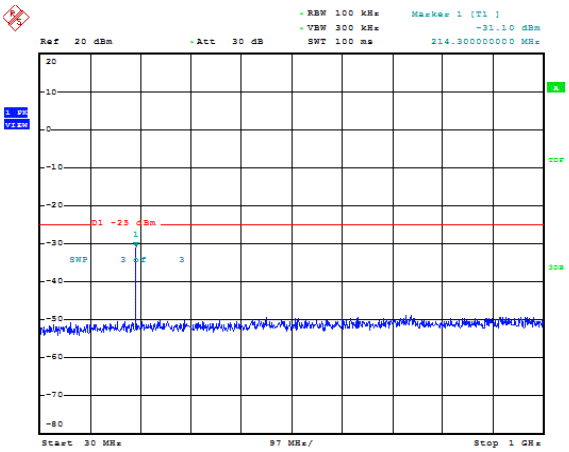
Date: 31.OCT.2020 14:49:25

Band7-15MHz-16QAM-20825-1RB#0-Range3:3000~26500MHz



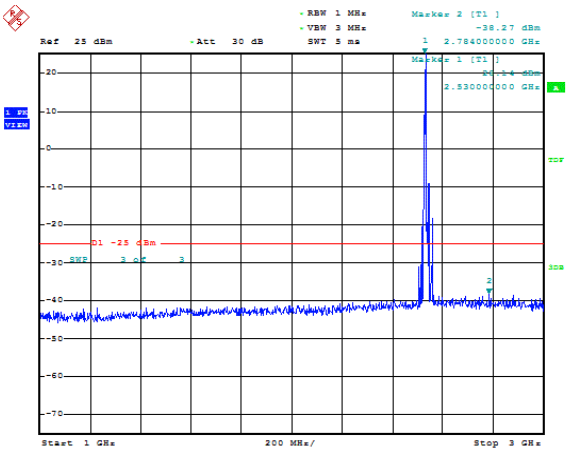
Date: 31.OCT.2020 14:49:33

Band7-15MHz-16QAM-21100-1RB#0-Range1:30~1000MHz



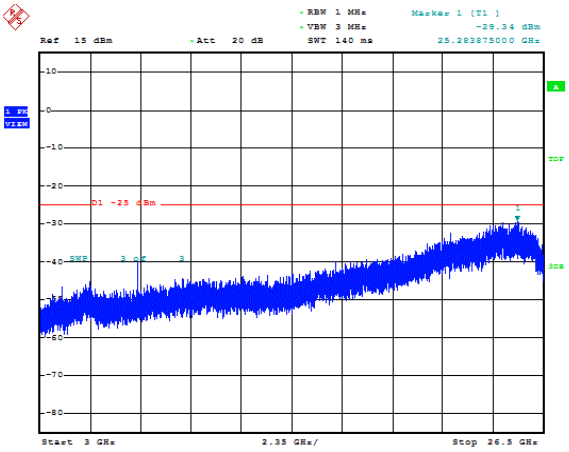
Date: 31.OCT.2020 14:50:09

Band7-15MHz-16QAM-21100-1RB#0-Range2:1000~3000MHz



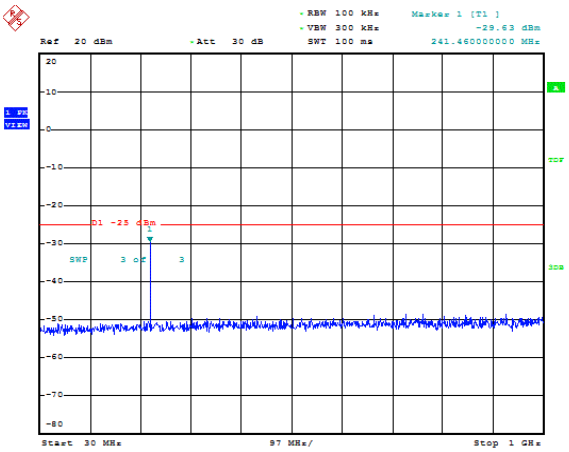
Date: 31.OCT.2020 14:50:18

Band7-15MHz-16QAM-21100-1RB#0-Range3:3000~26500MHz



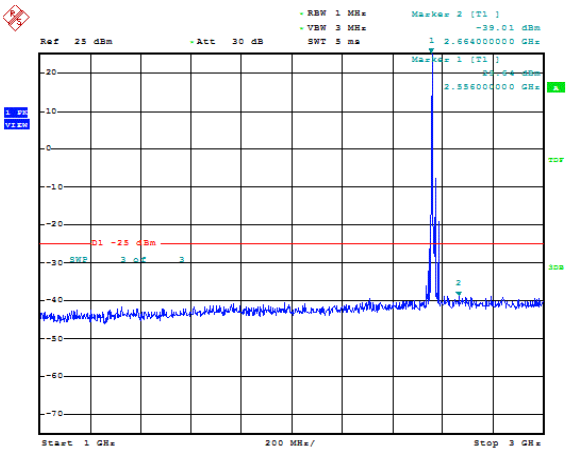
Date: 31.OCT.2020 14:50:26

Band7-15MHz-16QAM-21375-1RB#0-Range1:30~1000MHz



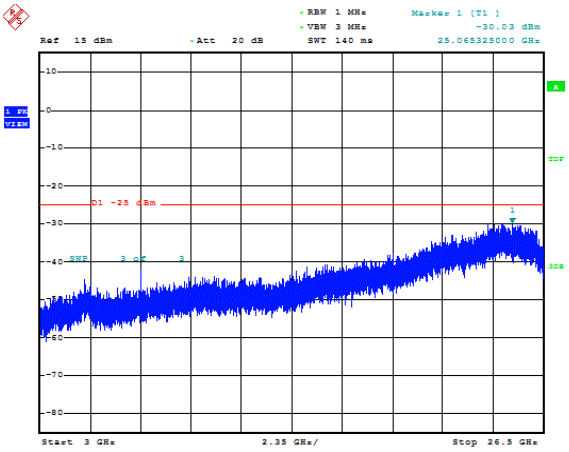
Date: 31.OCT.2020 14:51:02

Band7-15MHz-16QAM-21375-1RB#0-Range2:1000~3000MHz



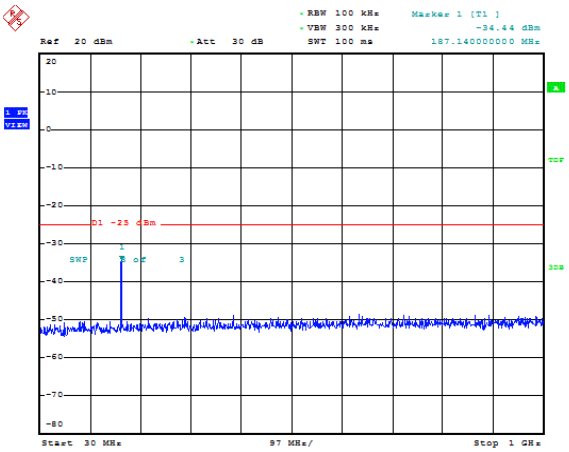
Date: 31.OCT.2020 14:51:10

Band7-15MHz-16QAM-21375-1RB#0-Range3:3000~26500MHz



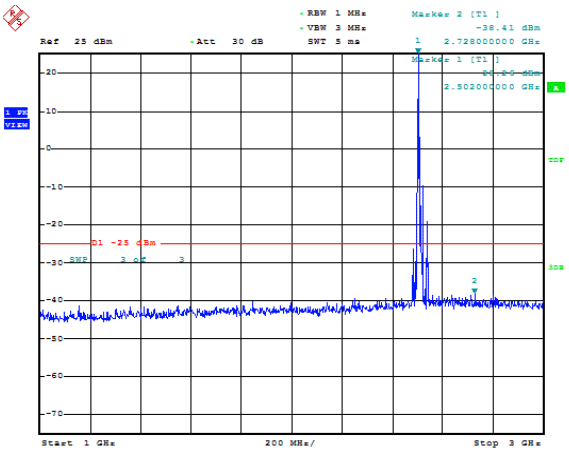
Date: 31.OCT.2020 14:51:18

Band7-20MHz-QPSK-20850-1RB#0-Range1:30~1000MHz



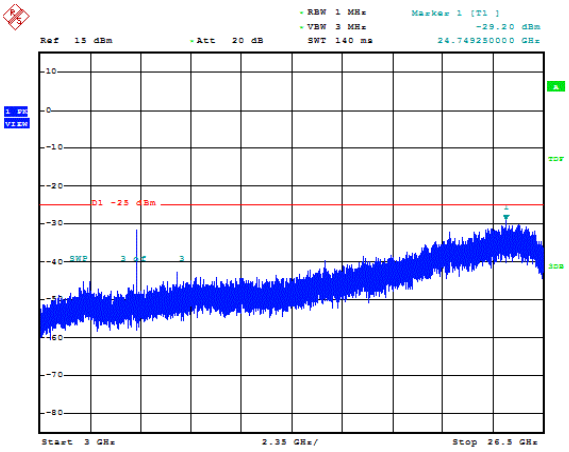
Date: 31.OCT.2020 14:53:19

Band7-20MHz-QPSK-20850-1RB#0-Range2:1000~3000MHz



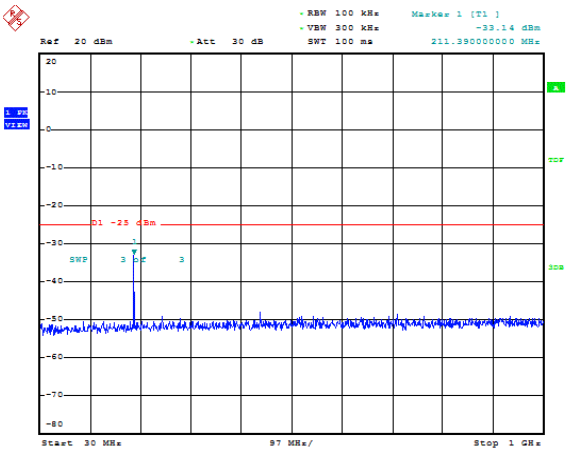
Date: 31.OCT.2020 14:53:27

Band7-20MHz-QPSK-20850-1RB#0-Range3:3000~26500MHz



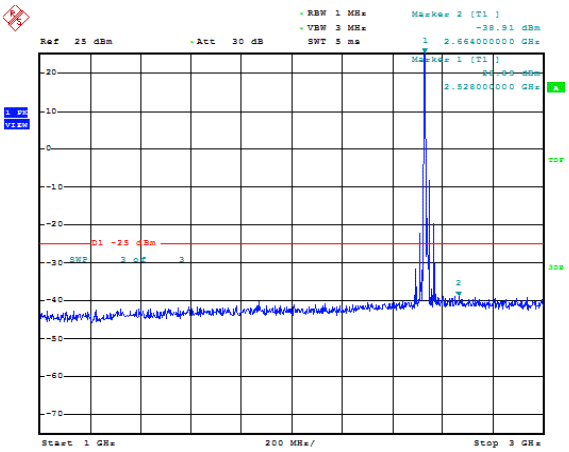
Date: 31.OCT.2020 14:53:35

Band7-20MHz-QPSK-21100-1RB#0-Range1:30~1000MHz



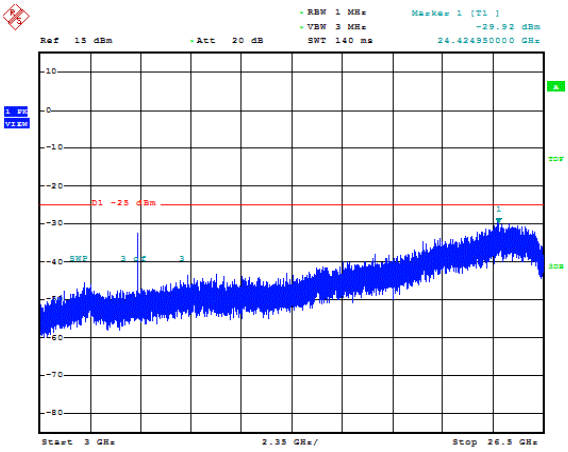
Date: 31.OCT.2020 14:54:11

Band7-20MHz-QPSK-21100-1RB#0-Range2:1000~3000MHz



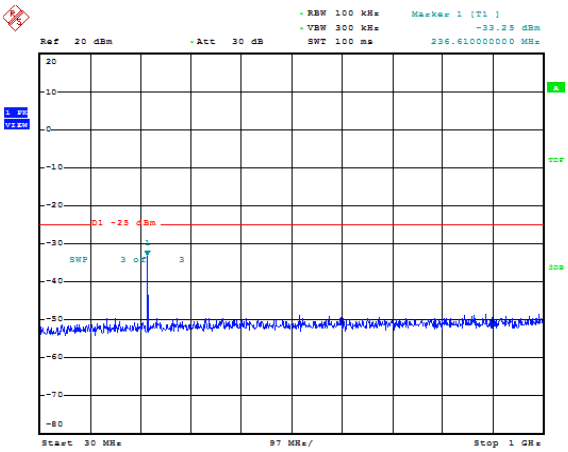
Date: 31.OCT.2020 14:54:20

Band7-20MHz-QPSK-21100-1RB#0-Range3:3000~26500MHz



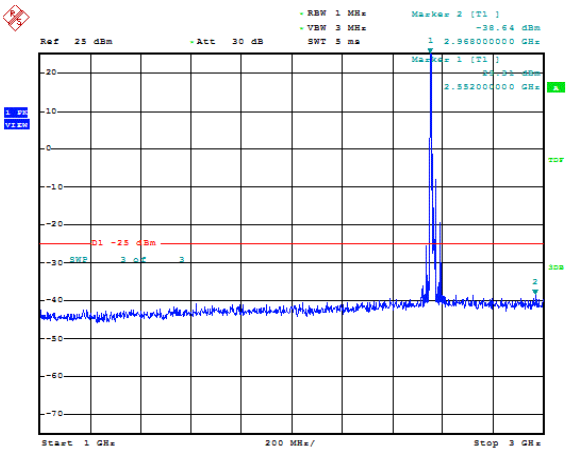
Date: 31.OCT.2020 14:54:28

Band7-20MHz-QPSK-21350-1RB#0-Range1:30~1000MHz



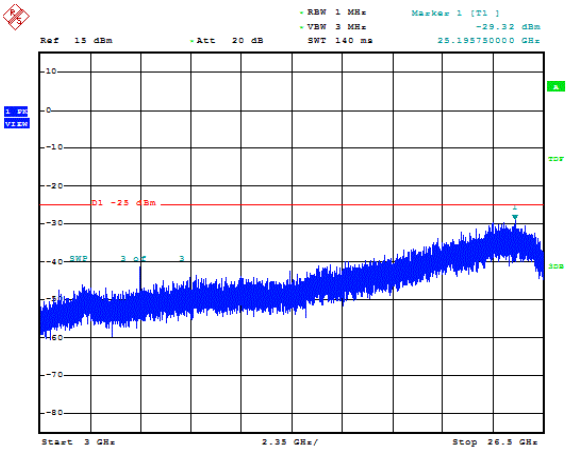
Date: 31.OCT.2020 14:55:04

Band7-20MHz-QPSK-21350-1RB#0-Range2:1000~3000MHz



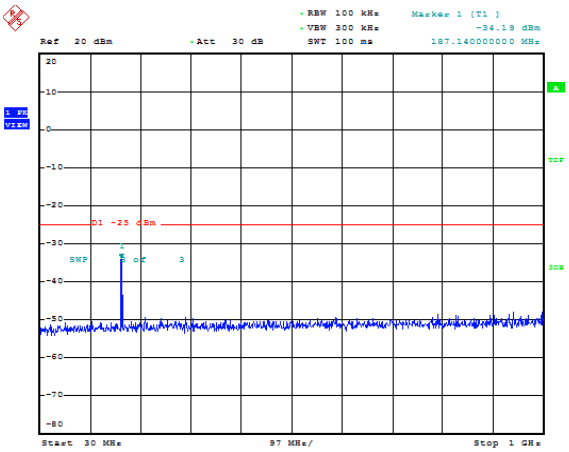
Date: 31.OCT.2020 14:55:12

Band7-20MHz-QPSK-21350-1RB#0-Range3:3000~26500MHz



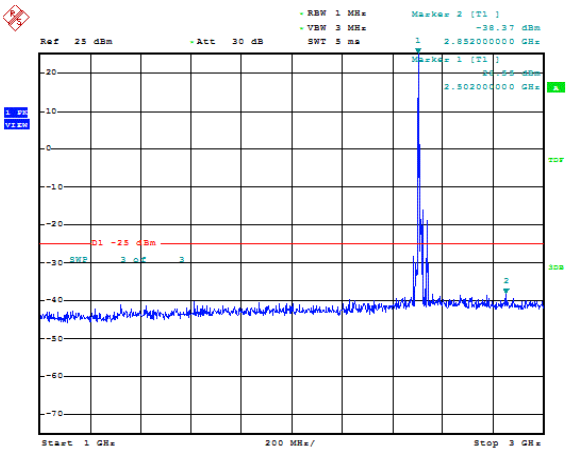
Date: 31.OCT.2020 14:55:20

Band7-20MHz-16QAM-20850-1RB#0-Range1:30~1000MHz



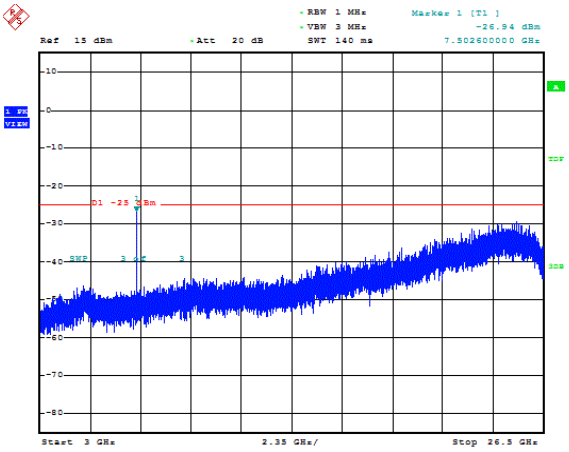
Date: 31.OCT.2020 14:53:44

Band7-20MHz-16QAM-20850-1RB#0-Range2:1000~3000MHz



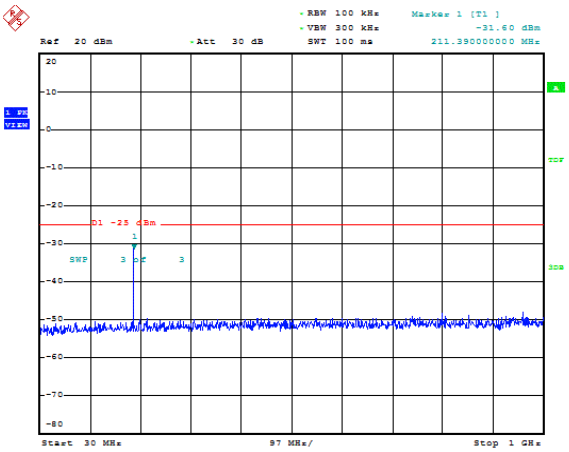
Date: 31.OCT.2020 14:53:52

Band7-20MHz-16QAM-20850-1RB#0-Range3:3000~26500MHz



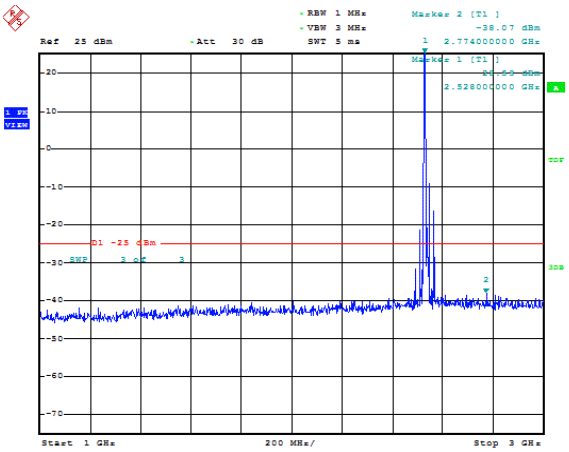
Date: 31.OCT.2020 14:54:00

Band7-20MHz-16QAM-21100-1RB#0-Range1:30~1000MHz



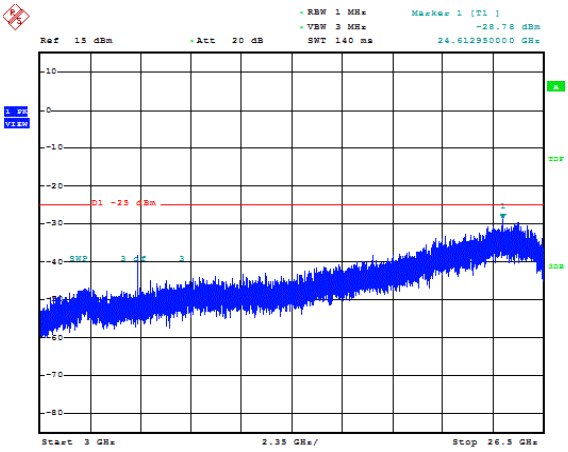
Date: 31.OCT.2020 14:54:37

Band7-20MHz-16QAM-21100-1RB#0-Range2:1000~3000MHz



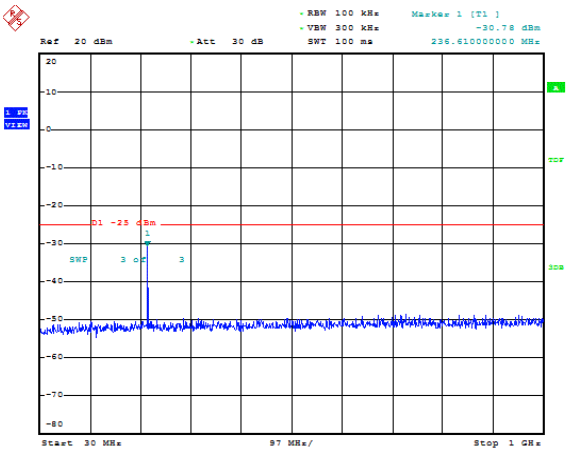
Date: 31.OCT.2020 14:54:45

Band7-20MHz-16QAM-21100-1RB#0-Range3:3000~26500MHz



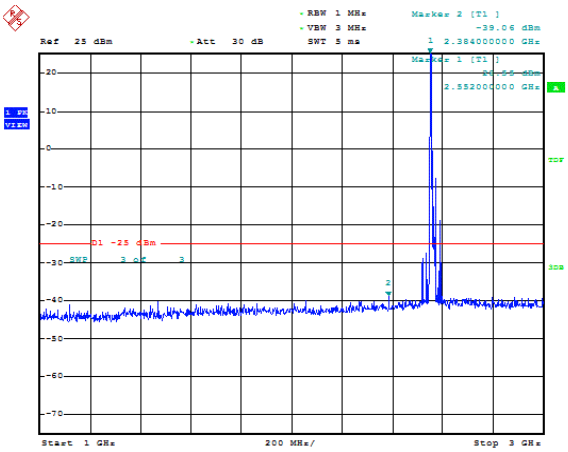
Date: 31.OCT.2020 14:54:53

Band7-20MHz-16QAM-21350-1RB#0-Range1:30~1000MHz



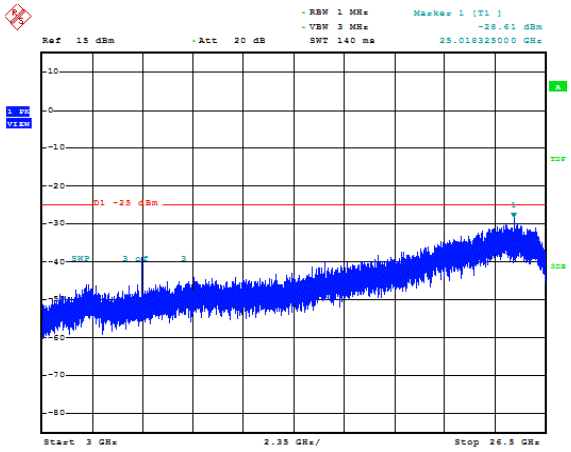
Date: 31.OCT.2020 14:55:29

Band7-20MHz-16QAM-21350-1RB#0-Range2:1000~3000MHz



Date: 31.OCT.2020 14:55:37

Band7-20MHz-16QAM-21350-1RB#0-Range3:3000~26500MHz



Date: 31.OCT.2020 14:55:45

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
Band7	5MHz	QPSK	20775	25RB#0	VL	NT	5.88	0.002350	±2.5	PASS
Band7	5MHz	QPSK	20775	25RB#0	VN	NT	-5.12	-0.002046	±2.5	PASS
Band7	5MHz	QPSK	20775	25RB#0	VH	NT	5.28	0.002110	±2.5	PASS
Band7	5MHz	QPSK	21100	25RB#0	VL	NT	-5.78	-0.002280	±2.5	PASS
Band7	5MHz	QPSK	21100	25RB#0	VN	NT	-5.94	-0.002343	±2.5	PASS
Band7	5MHz	QPSK	21100	25RB#0	VH	NT	-5.48	-0.002162	±2.5	PASS
Band7	5MHz	QPSK	21425	25RB#0	VL	NT	7.50	0.002921	±2.5	PASS
Band7	5MHz	QPSK	21425	25RB#0	VN	NT	-5.26	-0.002049	±2.5	PASS
Band7	5MHz	QPSK	21425	25RB#0	VH	NT	-2.60	-0.001013	±2.5	PASS
Band7	5MHz	16QAM	20775	25RB#0	VL	NT	4.73	0.001890	±2.5	PASS
Band7	5MHz	16QAM	20775	25RB#0	VN	NT	5.89	0.002354	±2.5	PASS
Band7	5MHz	16QAM	20775	25RB#0	VH	NT	3.33	0.001331	±2.5	PASS
Band7	5MHz	16QAM	21100	25RB#0	VL	NT	-3.25	-0.001282	±2.5	PASS
Band7	5MHz	16QAM	21100	25RB#0	VN	NT	-5.91	-0.002331	±2.5	PASS
Band7	5MHz	16QAM	21100	25RB#0	VH	NT	-5.97	-0.002355	±2.5	PASS
Band7	5MHz	16QAM	21425	25RB#0	VL	NT	-3.49	-0.001359	±2.5	PASS
Band7	5MHz	16QAM	21425	25RB#0	VN	NT	3.50	0.001363	±2.5	PASS
Band7	5MHz	16QAM	21425	25RB#0	VH	NT	5.44	0.002119	±2.5	PASS
Band7	10MHz	QPSK	20800	50RB#0	VL	NT	-6.97	-0.002782	±2.5	PASS
Band7	10MHz	QPSK	20800	50RB#0	VN	NT	-6.29	-0.002511	±2.5	PASS
Band7	10MHz	QPSK	20800	50RB#0	VH	NT	-6.48	-0.002587	±2.5	PASS
Band7	10MHz	QPSK	21100	50RB#0	VL	NT	-6.74	-0.002659	±2.5	PASS
Band7	10MHz	QPSK	21100	50RB#0	VN	NT	-7.10	-0.002801	±2.5	PASS
Band7	10MHz	QPSK	21100	50RB#0	VH	NT	-4.35	-0.001716	±2.5	PASS
Band7	10MHz	QPSK	21400	50RB#0	VL	NT	-8.87	-0.003458	±2.5	PASS
Band7	10MHz	QPSK	21400	50RB#0	VN	NT	-9.11	-0.003552	±2.5	PASS
Band7	10MHz	QPSK	21400	50RB#0	VH	NT	-6.01	-0.002343	±2.5	PASS
Band7	10MHz	16QAM	20800	50RB#0	VL	NT	-3.95	-0.001577	±2.5	PASS
Band7	10MHz	16QAM	20800	50RB#0	VN	NT	-7.65	-0.003054	±2.5	PASS
Band7	10MHz	16QAM	20800	50RB#0	VH	NT	-7.28	-0.002906	±2.5	PASS
Band7	10MHz	16QAM	21100	50RB#0	VL	NT	-8.33	-0.003286	±2.5	PASS

Band7	10MHz	16QAM	21100	50RB#0	VN	NT	-6.35	-0.002505	±2.5	PASS
Band7	10MHz	16QAM	21100	50RB#0	VH	NT	-5.62	-0.002217	±2.5	PASS
Band7	10MHz	16QAM	21400	50RB#0	VL	NT	-7.65	-0.002982	±2.5	PASS
Band7	10MHz	16QAM	21400	50RB#0	VN	NT	-4.19	-0.001634	±2.5	PASS
Band7	10MHz	16QAM	21400	50RB#0	VH	NT	-6.57	-0.002561	±2.5	PASS
Band7	15MHz	QPSK	20825	75RB#0	VL	NT	4.36	0.001739	±2.5	PASS
Band7	15MHz	QPSK	20825	75RB#0	VN	NT	3.08	0.001228	±2.5	PASS
Band7	15MHz	QPSK	20825	75RB#0	VH	NT	5.44	0.002169	±2.5	PASS
Band7	15MHz	QPSK	21100	75RB#0	VL	NT	-7.18	-0.002832	±2.5	PASS
Band7	15MHz	QPSK	21100	75RB#0	VN	NT	-7.32	-0.002888	±2.5	PASS
Band7	15MHz	QPSK	21100	75RB#0	VH	NT	-5.02	-0.001980	±2.5	PASS
Band7	15MHz	QPSK	21375	75RB#0	VL	NT	3.48	0.001358	±2.5	PASS
Band7	15MHz	QPSK	21375	75RB#0	VN	NT	3.35	0.001307	±2.5	PASS
Band7	15MHz	QPSK	21375	75RB#0	VH	NT	3.46	0.001350	±2.5	PASS
Band7	15MHz	16QAM	20825	75RB#0	VL	NT	4.84	0.001930	±2.5	PASS
Band7	15MHz	16QAM	20825	75RB#0	VN	NT	-2.80	-0.001117	±2.5	PASS
Band7	15MHz	16QAM	20825	75RB#0	VH	NT	3.91	0.001559	±2.5	PASS
Band7	15MHz	16QAM	21100	75RB#0	VL	NT	-6.98	-0.002753	±2.5	PASS
Band7	15MHz	16QAM	21100	75RB#0	VN	NT	-7.04	-0.002777	±2.5	PASS
Band7	15MHz	16QAM	21100	75RB#0	VH	NT	-10.07	-0.003972	±2.5	PASS
Band7	15MHz	16QAM	21375	75RB#0	VL	NT	-3.59	-0.001401	±2.5	PASS
Band7	15MHz	16QAM	21375	75RB#0	VN	NT	3.92	0.001530	±2.5	PASS
Band7	15MHz	16QAM	21375	75RB#0	VH	NT	3.02	0.001179	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	VL	NT	2.52	0.001004	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	VN	NT	5.84	0.002327	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	VH	NT	-2.65	-0.001056	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VL	NT	-6.77	-0.002671	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VN	NT	-5.64	-0.002225	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VH	NT	-7.04	-0.002777	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VL	NT	3.56	0.001391	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VN	NT	4.12	0.001609	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VH	NT	-3.86	-0.001508	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	VL	NT	4.43	0.001765	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	VN	NT	7.07	0.002817	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	VH	NT	2.79	0.001112	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VL	NT	-4.38	-0.001728	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VN	NT	-8.63	-0.003404	±2.5	PASS

Band7	20MHz	16QAM	21100	100RB#0	VH	NT	-6.68	-0.002635	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VL	NT	3.86	0.001508	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VN	NT	4.38	0.001711	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VH	NT	-4.01	-0.001566	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	NV	-10	7.07	0.002825	±2.5	PASS
Band7	5MHz	QPSK	20775	25RB#0	NV	0	2.98	0.001191	±2.5	PASS
Band7	5MHz	QPSK	20775	25RB#0	NV	10	3.59	0.001435	±2.5	PASS
Band7	5MHz	QPSK	20775	25RB#0	NV	20	4.56	0.001822	±2.5	PASS
Band7	5MHz	QPSK	20775	25RB#0	NV	30	5.22	0.002086	±2.5	PASS
Band7	5MHz	QPSK	20775	25RB#0	NV	40	6.25	0.002498	±2.5	PASS
Band7	5MHz	QPSK	20775	25RB#0	NV	50	6.02	0.002406	±2.5	PASS
Band7	5MHz	QPSK	21100	25RB#0	NV	-10	-7.58	-0.002990	±2.5	PASS
Band7	5MHz	QPSK	21100	25RB#0	NV	0	-7.78	-0.003069	±2.5	PASS
Band7	5MHz	QPSK	21100	25RB#0	NV	10	-4.13	-0.001629	±2.5	PASS
Band7	5MHz	QPSK	21100	25RB#0	NV	20	-8.24	-0.003250	±2.5	PASS
Band7	5MHz	QPSK	21100	25RB#0	NV	30	-8.00	-0.003156	±2.5	PASS
Band7	5MHz	QPSK	21100	25RB#0	NV	40	-8.11	-0.003199	±2.5	PASS
Band7	5MHz	QPSK	21100	25RB#0	NV	50	-9.18	-0.003621	±2.5	PASS
Band7	5MHz	QPSK	21425	25RB#0	NV	-10	2.73	0.001063	±2.5	PASS
Band7	5MHz	QPSK	21425	25RB#0	NV	0	4.85	0.001889	±2.5	PASS
Band7	5MHz	QPSK	21425	25RB#0	NV	10	4.99	0.001944	±2.5	PASS
Band7	5MHz	QPSK	21425	25RB#0	NV	20	3.86	0.001503	±2.5	PASS
Band7	5MHz	QPSK	21425	25RB#0	NV	30	-2.98	-0.001161	±2.5	PASS
Band7	5MHz	QPSK	21425	25RB#0	NV	40	5.08	0.001979	±2.5	PASS
Band7	5MHz	QPSK	21425	25RB#0	NV	50	3.12	0.001215	±2.5	PASS
Band7	5MHz	16QAM	20775	25RB#0	NV	-10	-2.32	-0.000927	±2.5	PASS
Band7	5MHz	16QAM	20775	25RB#0	NV	0	6.61	0.002641	±2.5	PASS
Band7	5MHz	16QAM	20775	25RB#0	NV	10	5.42	0.002166	±2.5	PASS
Band7	5MHz	16QAM	20775	25RB#0	NV	20	6.34	0.002533	±2.5	PASS
Band7	5MHz	16QAM	20775	25RB#0	NV	30	4.39	0.001754	±2.5	PASS
Band7	5MHz	16QAM	20775	25RB#0	NV	40	4.13	0.001650	±2.5	PASS
Band7	5MHz	16QAM	20775	25RB#0	NV	50	4.31	0.001722	±2.5	PASS
Band7	5MHz	16QAM	21100	25RB#0	NV	-10	-3.85	-0.001519	±2.5	PASS
Band7	5MHz	16QAM	21100	25RB#0	NV	0	-8.33	-0.003286	±2.5	PASS

Band7	5MHz	16QAM	21100	25RB#0	NV	10	-6.65	-0.002623	±2.5	PASS
Band7	5MHz	16QAM	21100	25RB#0	NV	20	-4.31	-0.001700	±2.5	PASS
Band7	5MHz	16QAM	21100	25RB#0	NV	30	-3.75	-0.001479	±2.5	PASS
Band7	5MHz	16QAM	21100	25RB#0	NV	40	-4.96	-0.001957	±2.5	PASS
Band7	5MHz	16QAM	21100	25RB#0	NV	50	-3.76	-0.001483	±2.5	PASS
Band7	5MHz	16QAM	21425	25RB#0	NV	-10	4.11	0.001601	±2.5	PASS
Band7	5MHz	16QAM	21425	25RB#0	NV	0	-3.93	-0.001531	±2.5	PASS
Band7	5MHz	16QAM	21425	25RB#0	NV	10	2.32	0.000904	±2.5	PASS
Band7	5MHz	16QAM	21425	25RB#0	NV	20	-2.65	-0.001032	±2.5	PASS
Band7	5MHz	16QAM	21425	25RB#0	NV	30	2.70	0.001052	±2.5	PASS
Band7	5MHz	16QAM	21425	25RB#0	NV	40	-2.23	-0.000869	±2.5	PASS
Band7	5MHz	16QAM	21425	25RB#0	NV	50	-3.98	-0.001550	±2.5	PASS
Band7	10MHz	QPSK	20800	50RB#0	NV	-10	-6.55	-0.002615	±2.5	PASS
Band7	10MHz	QPSK	20800	50RB#0	NV	0	-5.35	-0.002136	±2.5	PASS
Band7	10MHz	QPSK	20800	50RB#0	NV	10	-5.97	-0.002383	±2.5	PASS
Band7	10MHz	QPSK	20800	50RB#0	NV	20	-7.97	-0.003182	±2.5	PASS
Band7	10MHz	QPSK	20800	50RB#0	NV	30	-4.56	-0.001820	±2.5	PASS
Band7	10MHz	QPSK	20800	50RB#0	NV	40	-6.87	-0.002743	±2.5	PASS
Band7	10MHz	QPSK	20800	50RB#0	NV	50	-5.24	-0.002092	±2.5	PASS
Band7	10MHz	QPSK	21100	50RB#0	NV	-10	-10.33	-0.004075	±2.5	PASS
Band7	10MHz	QPSK	21100	50RB#0	NV	0	-7.35	-0.002899	±2.5	PASS
Band7	10MHz	QPSK	21100	50RB#0	NV	10	-4.76	-0.001878	±2.5	PASS
Band7	10MHz	QPSK	21100	50RB#0	NV	20	2.09	0.000824	±2.5	PASS
Band7	10MHz	QPSK	21100	50RB#0	NV	30	-5.11	-0.002016	±2.5	PASS
Band7	10MHz	QPSK	21100	50RB#0	NV	40	-5.01	-0.001976	±2.5	PASS
Band7	10MHz	QPSK	21100	50RB#0	NV	50	-6.68	-0.002635	±2.5	PASS
Band7	10MHz	QPSK	21400	50RB#0	NV	-10	-7.01	-0.002733	±2.5	PASS
Band7	10MHz	QPSK	21400	50RB#0	NV	0	-8.40	-0.003275	±2.5	PASS
Band7	10MHz	QPSK	21400	50RB#0	NV	10	-5.87	-0.002288	±2.5	PASS
Band7	10MHz	QPSK	21400	50RB#0	NV	20	-5.12	-0.001996	±2.5	PASS
Band7	10MHz	QPSK	21400	50RB#0	NV	30	-3.85	-0.001501	±2.5	PASS
Band7	10MHz	QPSK	21400	50RB#0	NV	40	-5.26	-0.002051	±2.5	PASS
Band7	10MHz	QPSK	21400	50RB#0	NV	50	-8.60	-0.003353	±2.5	PASS
Band7	10MHz	16QAM	20800	50RB#0	NV	-10	-8.35	-0.003333	±2.5	PASS
Band7	10MHz	16QAM	20800	50RB#0	NV	0	-8.98	-0.003585	±2.5	PASS
Band7	10MHz	16QAM	20800	50RB#0	NV	10	-4.48	-0.001788	±2.5	PASS
Band7	10MHz	16QAM	20800	50RB#0	NV	20	-6.01	-0.002399	±2.5	PASS

Band7	10MHz	16QAM	20800	50RB#0	NV	30	-6.82	-0.002723	±2.5	PASS
Band7	10MHz	16QAM	20800	50RB#0	NV	40	-6.39	-0.002551	±2.5	PASS
Band7	10MHz	16QAM	20800	50RB#0	NV	50	-4.63	-0.001848	±2.5	PASS
Band7	10MHz	16QAM	21100	50RB#0	NV	-10	-5.22	-0.002059	±2.5	PASS
Band7	10MHz	16QAM	21100	50RB#0	NV	0	-6.29	-0.002481	±2.5	PASS
Band7	10MHz	16QAM	21100	50RB#0	NV	10	-4.43	-0.001748	±2.5	PASS
Band7	10MHz	16QAM	21100	50RB#0	NV	20	-5.71	-0.002252	±2.5	PASS
Band7	10MHz	16QAM	21100	50RB#0	NV	30	-5.19	-0.002047	±2.5	PASS
Band7	10MHz	16QAM	21100	50RB#0	NV	40	-7.50	-0.002959	±2.5	PASS
Band7	10MHz	16QAM	21100	50RB#0	NV	50	19.27	0.007602	±2.5	PASS
Band7	10MHz	16QAM	21400	50RB#0	NV	-10	-7.28	-0.002838	±2.5	PASS
Band7	10MHz	16QAM	21400	50RB#0	NV	0	-8.47	-0.003302	±2.5	PASS
Band7	10MHz	16QAM	21400	50RB#0	NV	10	-6.79	-0.002647	±2.5	PASS
Band7	10MHz	16QAM	21400	50RB#0	NV	20	-4.61	-0.001797	±2.5	PASS
Band7	10MHz	16QAM	21400	50RB#0	NV	30	-3.16	-0.001232	±2.5	PASS
Band7	10MHz	16QAM	21400	50RB#0	NV	40	-3.56	-0.001388	±2.5	PASS
Band7	10MHz	16QAM	21400	50RB#0	NV	50	-5.16	-0.002012	±2.5	PASS
Band7	15MHz	QPSK	20825	75RB#0	NV	-10	-4.66	-0.001858	±2.5	PASS
Band7	15MHz	QPSK	20825	75RB#0	NV	0	4.35	0.001735	±2.5	PASS
Band7	15MHz	QPSK	20825	75RB#0	NV	10	4.31	0.001719	±2.5	PASS
Band7	15MHz	QPSK	20825	75RB#0	NV	20	-4.11	-0.001639	±2.5	PASS
Band7	15MHz	QPSK	20825	75RB#0	NV	30	-2.63	-0.001049	±2.5	PASS
Band7	15MHz	QPSK	20825	75RB#0	NV	40	2.59	0.001033	±2.5	PASS
Band7	15MHz	QPSK	20825	75RB#0	NV	50	3.68	0.001468	±2.5	PASS
Band7	15MHz	QPSK	21100	75RB#0	NV	-10	-3.22	-0.001270	±2.5	PASS
Band7	15MHz	QPSK	21100	75RB#0	NV	0	-7.05	-0.002781	±2.5	PASS
Band7	15MHz	QPSK	21100	75RB#0	NV	10	-5.85	-0.002308	±2.5	PASS
Band7	15MHz	QPSK	21100	75RB#0	NV	20	-4.55	-0.001795	±2.5	PASS
Band7	15MHz	QPSK	21100	75RB#0	NV	30	-6.42	-0.002533	±2.5	PASS
Band7	15MHz	QPSK	21100	75RB#0	NV	40	-3.38	-0.001333	±2.5	PASS
Band7	15MHz	QPSK	21100	75RB#0	NV	50	-8.37	-0.003302	±2.5	PASS
Band7	15MHz	QPSK	21375	75RB#0	NV	-10	3.79	0.001479	±2.5	PASS
Band7	15MHz	QPSK	21375	75RB#0	NV	0	5.62	0.002193	±2.5	PASS
Band7	15MHz	QPSK	21375	75RB#0	NV	10	5.99	0.002338	±2.5	PASS
Band7	15MHz	QPSK	21375	75RB#0	NV	20	4.36	0.001701	±2.5	PASS
Band7	15MHz	QPSK	21375	75RB#0	NV	30	4.41	0.001721	±2.5	PASS
Band7	15MHz	QPSK	21375	75RB#0	NV	40	4.21	0.001643	±2.5	PASS

Band7	15MHz	QPSK	21375	75RB#0	NV	50	4.15	0.001620	±2.5	PASS
Band7	15MHz	16QAM	20825	75RB#0	NV	-10	2.88	0.001149	±2.5	PASS
Band7	15MHz	16QAM	20825	75RB#0	NV	0	5.09	0.002030	±2.5	PASS
Band7	15MHz	16QAM	20825	75RB#0	NV	10	-2.36	-0.000941	±2.5	PASS
Band7	15MHz	16QAM	20825	75RB#0	NV	20	2.73	0.001089	±2.5	PASS
Band7	15MHz	16QAM	20825	75RB#0	NV	30	5.14	0.002050	±2.5	PASS
Band7	15MHz	16QAM	20825	75RB#0	NV	40	-3.10	-0.001236	±2.5	PASS
Band7	15MHz	16QAM	20825	75RB#0	NV	50	5.24	0.002090	±2.5	PASS
Band7	15MHz	16QAM	21100	75RB#0	NV	-10	-4.72	-0.001862	±2.5	PASS
Band7	15MHz	16QAM	21100	75RB#0	NV	0	-6.09	-0.002402	±2.5	PASS
Band7	15MHz	16QAM	21100	75RB#0	NV	10	-5.84	-0.002304	±2.5	PASS
Band7	15MHz	16QAM	21100	75RB#0	NV	20	-4.82	-0.001901	±2.5	PASS
Band7	15MHz	16QAM	21100	75RB#0	NV	30	-4.13	-0.001629	±2.5	PASS
Band7	15MHz	16QAM	21100	75RB#0	NV	40	-2.95	-0.001164	±2.5	PASS
Band7	15MHz	16QAM	21100	75RB#0	NV	50	-7.94	-0.003132	±2.5	PASS
Band7	15MHz	16QAM	21375	75RB#0	NV	-10	5.78	0.002256	±2.5	PASS
Band7	15MHz	16QAM	21375	75RB#0	NV	0	5.62	0.002193	±2.5	PASS
Band7	15MHz	16QAM	21375	75RB#0	NV	10	-64.49	-0.025167	±2.5	PASS
Band7	15MHz	16QAM	21375	75RB#0	NV	20	4.51	0.001760	±2.5	PASS
Band7	15MHz	16QAM	21375	75RB#0	NV	30	4.33	0.001690	±2.5	PASS
Band7	15MHz	16QAM	21375	75RB#0	NV	40	3.33	0.001300	±2.5	PASS
Band7	15MHz	16QAM	21375	75RB#0	NV	50	5.29	0.002064	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	-10	5.88	0.002343	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	0	4.56	0.001817	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	10	4.72	0.001880	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	20	3.38	0.001347	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	30	6.91	0.002753	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	40	7.77	0.003096	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	50	2.96	0.001179	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-10	-7.10	-0.002801	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	0	-6.54	-0.002580	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	10	-8.75	-0.003452	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	20	-5.09	-0.002008	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	30	-2.73	-0.001077	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	40	-5.11	-0.002016	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	50	-8.10	-0.003195	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	-10	2.35	0.000918	±2.5	PASS

Band7	20MHz	QPSK	21350	100RB#0	NV	0	4.78	0.001867	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	10	-65.63	-0.025637	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	20	3.52	0.001375	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	30	-3.63	-0.001418	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	40	4.11	0.001605	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	50	-3.72	-0.001453	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	-10	4.59	0.001829	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	0	3.48	0.001386	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	10	-5.94	-0.002367	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	20	4.18	0.001665	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	30	5.81	0.002315	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	40	4.96	0.001976	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	50	3.15	0.001255	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	-10	-7.37	-0.002907	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	0	-7.14	-0.002817	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	10	-4.21	-0.001661	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	20	-3.49	-0.001377	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	30	-7.51	-0.002963	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	40	-4.82	-0.001901	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	50	-4.09	-0.001613	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	-10	3.30	0.001289	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	0	3.69	0.001441	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	10	3.69	0.001441	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	20	4.13	0.001613	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	30	-2.03	-0.000793	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	40	2.22	0.000867	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	50	4.63	0.001809	±2.5	PASS

----------END----------