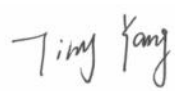


FCC RF Test Report

For

Beijing InHand Networks Technology Co., Ltd.

Test Standards:	<u>FCC 47 CFR Part 2, 22(H), 24(E), 27(C), 90(S), RSS-130 Issue 2, RSS-132 Issue 4, RSS-133 Issue 6, RSS-139 Issue 4</u>
Product Name:	<u>Vehicle Telematics</u>
Model Name:	<u>VT200</u>
P/N or HVIN:	<u>FQ02,FQ02-BAT,FQ02-ANT,FQ02-ANT-BAT</u>
Brand Name:	
FCC ID:	<u>2AANY-VT2FQ02</u>
IC:	<u>11594A-VT2FQ02</u>
Classification	<u>PCS Licensed Transmitter (PCB)</u>
Report No.:	<u>EC2303008RF01</u>
Tested Date:	<u>2023-03-10 to 2023-04-25</u>
Issued Date:	<u>2023-04-25</u>
Prepared By:	 Jerry Wang / Engineer
Approved By:	 Tiny Yang / RF Manager
Testing laboratory:	Hunan Ecloud Testing Technology Co., Ltd. Building A1, Changsha E Center, No. 18 Xiangtai Avenue, Liuyang Economic and Technological Development Zone, Hunan, P.R.C Tel.: +86-731-89634887 Fax.: +86-731-89634887 www.hn-ecloud.com

Note: The test results in this report apply exclusively to the tested model / sample. Without written approval of Hunan Ecloud Testing Technology Co., Ltd., the test report shall not be reproduced except in full.

Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	2023.04.25	Valid	Original Report

TABLE OF CONTENTS

Summary Of Test Result	4
1 TEST LABORATORY	6
1.1 Test facility	6
2 GENERAL DESCRIPTION	7
2.1 Applicant	7
2.2 Manufacturer	7
2.3 Product Feature of Equipment Under Test	7
2.4 Product Specification of Equipment Under Test	8
2.5 Modification of EUT	9
2.6 Applicable Standards	9
3 TEST CONFIGURATION OF EQUIPMENT UNDER TEST	10
3.1 Test Mode	10
3.2 Frequency List of Low/Middle/High Channels	13
3.3 Connection Diagram of Test System	18
3.4 Support Unit used in test configuration	19
3.5 Measurement Results Explanation Example	19
4 CONDUCTED TEST RESULT	20
4.1 Measuring Instruments	20
4.2 Conducted Output Power and E.R.P./E.I.R.P.	20
4.3 Peak-to-Average Ratio	50
4.4 99% Occupied Bandwidth and 26dB Bandwidth Measurement	68
4.5 Conducted Band Edge and Emission Mask	169
4.6 Conducted Spurious Emission	302
4.7 Frequency Stability	773
4.8 AC Conducted Emission Measurement	823
5 RADIATED TEST ITEMS	824
5.1 Radiated Spurious Emission	824
5.2 Receiver Spurious Emission	828
6 LIST OF MEASURING EQUIPMENT	833
7 UNCERTAINTY OF EVALUATION	834
APPENDIX A. TEST RESULTS OF RADIATED TEST	
APPENDIX B. TEST SETUP PHOTOGRAPHS	

Summary Of Test Result

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
4.2	§2.1046	RSS-130 4.6 RSS-132 5.4 RSS-133 6.4 RSS-139 6.5	Conducted Output Power	Reporting Only	PASS	Test Engineer: Luo Xiang
	§22.913(a)(5)	RSS-132 5.4	Effective Radiated Power GSM 850 LTE(Band 5) (Band 26)	ERP < 7 Watt	PASS	Test Engineer: Luo Xiang
	§27.50(c)(10)	RSS-130 4.6	Effective Radiated Power LTE(Band 12) (Band 85)	ERP < 3 Watt	PASS	Test Engineer: Luo Xiang
	§27.50(b)(10)	RSS-130 4.6	Effective Radiated Power LTE (Band 13)	ERP < 3 Watt	PASS	Test Engineer: Luo Xiang
	§24.232(c)	RSS-133 6.4	Equivalent Isotropic Radiated Power GSM 1900 LTE (Band 2)(Band 25)	EIRP < 2Watt	PASS	Test Engineer: Luo Xiang
	§27.50(d)(4)	RSS-130 4.6 RSS-139 6.5	Equivalent Isotropic Radiated Power LTE(Band 4) (Band 66)	EIRP < 1Watt	PASS	Test Engineer: Luo Xiang
	§90.635(d)	N/A	Effective Radiated Power LTE (Band 26)	< 100Watt	PASS	Test Engineer: Luo Xiang
4.3	§22.913(d) §24.232(d) §27.50(d) KDB 971168 D01(5.7)	RSS-130 4.6 RSS-132 5.4 RSS-133 6.4 RSS-139 6.5	Peak-to-Average Ratio	< 13 dB	PASS	Test Engineer: Luo Xiang
4.4	§2.1049	RSS-Gen 6.7	Occupied Bandwidth	Reporting Only	PASS	Test Engineer: Luo Xiang

4.5	§2.1051 §22.917(a) §24.238(a) §27.53(c) §27.53(g) §27.53(h) §27.53(f)	RSS-133 6.5 RSS-130 4.7 RSS-139 6.6 RSS-132 5.5	Conducted Band Edge Measurement	$< 43+10\log_{10}(P[\text{Watts}])$	PASS	Test Engineer: Luo Xiang
	§90.691(a)	N/A		$< 116\log_{10}(f/6.1)\text{or}$ $50+10\log_{10}(P[\text{Watts}])$	PASS	Test Engineer: Luo Xiang
4.6	§2.1051 §22.917(a) §24.238(a) §27.53(g) §27.53(h)	RSS-133 6.5 RSS-130 4.7 RSS-139 6.6 RSS-132 5.5	Conducted Spurious Emission	$< 43+10\log_{10}(P[\text{Watts}])$	PASS	Test Engineer: Luo Xiang
4.7	§2.1055 §22.355	RSS-Gen 6.11	Frequency Stability for Temperature & Voltage	$< 2.5 \text{ ppm}$	PASS	Test Engineer: Luo Xiang
	§2.1055 §22.355 §24.235 §27.54 §90.213	RSS-130 4.5 RSS-139 6.4 RSS-132 5.3 RSS-133 6.3		Within Authorized Band		
4.8	N/A	RSS-Gen 7.2	AC Conducted Emission	RSS-Gen 7.2	N/A	-
5.1	§2.1053 §22.917(a) §24.238(a) §27.53(g) §27.53(h) §27.53(f)	RSS-133 6.5 RSS-130 4.7 RSS-139 6.6 RSS-132 5.5	Radiated Spurious Emission	$< 43+10\log_{10}(P[\text{Watts}])$	PASS	Under limit 13.35 dB at 17940 MHz Test Engineer: Jack Liu
5.2	N/A	RSS-Gen 7.3	Receiver Spurious Emissions	RSS-Gen 7.3	PASS	Under limit 11.87 dB at 389.355 MHz Test Engineer: Jack Liu

1 Test Laboratory

1.1 Test facility

CNAS (accreditation number: L11138)

Hunan Ecloud Testing Technology Co., Ltd. has obtained the accreditation of China National Accreditation Service for Conformity Assessment (CNAS).

FCC (Designation number: CN1244 , Test Firm Registration Number: 793308)

Hunan Ecloud Testing Technology Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

ISED(CAB identifier: CN0012, ISED# :24347)

Hunan Ecloud Testing Technology Co., Ltd. has been listed on the Wireless Device Testing Laboratories list of innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements.

A2LA (Certificate Code : 4895.01)

Hunan Ecloud Testing Technology Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.

2 General Description

2.1 Applicant

Beijing InHand Networks Technology Co., Ltd.

Room 501, floor 5, building 3, yard 18, ziyue road, chaoyang district, Beijing

2.2 Manufacturer

Beijing InHand Networks Technology Co., Ltd.

Room 501, floor 5, building 3, yard 18, ziyue road, chaoyang district, Beijing

2.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Vehicle Telematics
Model Name	VT200
P/N or HVIN:	FQ02,FQ02-BAT,FQ02-ANT,FQ02-ANT-BAT
Difference Description	-ANT represents external antenna, without adding - ANT represents internal antenna, - BAT represents internal battery, without adding - BAT represents no battery
Power Supply	9~36Vdc
FCC ID	2AANY-VT2FQ02
IC	11594A-VT2FQ02
EUT supports Radios application	GPRS/EGPRS/LTE Cat M1
IMEI Code	869084065930822 for External Antenna 869084065935474 for Internal Antenna
HW Version	V1.1
SW Version	V1.2
EUT Stage	Production Unit
Sample no.	2303008R-1/2~2/2
Sample Received Date	2023-03-10

Remark:

1. The above EUT information is declared by manufacturer. Our laboratory is not responsible for the information provided by the manufacturer.
2. Pre-scan all voltages, the report only lists the worst voltage DC12V test results.
3. There are four types of EUT, FQ02 is an internal antenna without a battery, FQ02-BAT is an internal antenna with a battery, FQ02-ANT is an external antenna without a battery, and FQ02-ANT-BAT is an external antenna with a battery. The conduction item in the report only lists the worst data of FQ02-ANT-BAT type, and the radiation item only lists the test data of FQ02-BAT and FQ02-ANT-BAT types. Please refer to Appendix A for radiation difference data
4. Built in battery, only supplying power to the communication module, and DC power supply is required for normal operation mode
5. The EUT was investigated in three orthogonal orientations X/Y/Z on antennas. For antenna, it was determined that worst-case orientation Y (Landscape) orientation for EUT.

2.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	GSM 850: 824.4 MHz ~ 848.8MHz GSM 1900: 1850.2 MHz ~ 1909.8MHz LTE Band 2: 1850.7 MHz ~ 1909.3MHz LTE Band 4 : 1710.7 MHz ~ 1754.3 MHz LTE Band 5 : 824.7 MHz ~ 848.3 MHz LTE Band 12 : 699.7 MHz ~ 715.3 MHz LTE Band 13 : 779.5 MHz ~ 784.5 MHz LTE Band 25 : 1850.7MHz ~ 1914.3 MHz LTE Band 26 : 814.7MHz ~ 823.3 MHz LTE Band 26 : 824.7MHz ~ 848.3 MHz LTE Band 66 : 1710.7 MHz ~ 1779.3 MHz LTE Band 85 : 700.5MHz ~ 713.5 MHz
Rx Frequency	GSM 850: 869.2MHz ~ 893.8MHz GSM 1900: 1930.2 MHz ~ 1989.8MHz LTE Band 2: 1930.7 MHz ~ 1989.3 MHz LTE Band 4 : 2110.7 MHz ~ 2154.3 MHz LTE Band 5 : 869.7 MHz ~ 893.3 MHz LTE Band 12 : 729.7 MHz ~ 745.3 MHz LTE Band 13 : 748.5 MHz ~ 753.5 MHz LTE Band 25 : 1930.7 MHz ~ 1994.3 MHz LTE Band 26 : 859.7MHz ~ 868.3 MHz LTE Band 26 : 869.7 MHz ~ 893.3 MHz LTE Band 66 : 2110.7 MHz~ 2199.3 MHz LTE Band 85 : 730.5 MHz~ 743.5 MHz
Bandwidth	GSM850: 200kHz GSM1900: 200kHz LTE Band 2 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 4 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 5 : 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 12 : 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 13 : 5MHz / 10MHz LTE Band 25 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 26 : 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 26 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz LTE Band 66 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 85 : 5MHz / 10MHz
Maximum EIRP Power	LTE Band 2: 23.65 dBm LTE Band 4: 23.49 dBm LTE Band 25: 23.86 dBm LTE Band 66: 23.67 dBm GSM1900: 32.68 dBm
Maximum ERP Power	GSM850: 32.96 dBm LTE Band 5: 21.58 dBm LTE Band 12: 22.04 dBm LTE Band 13: 21.82 dBm LTE Band 26@22: 22.05 dBm

	LTE Band 26@90: 22.05 dBm LTE Band 85: 21.97 dBm
Antenna Type	Patch Antenna for External Antenna Ceramic Chip Antenna for Internal Antenna
Antenna Gain (Main)	Patch Antenna 1.23 dBi Ceramic Chip Antenna 3.2 dBi
Type of Modulation	GSM: GMSK/8PSK LTE: QPSK/16QAM
LTE Category	M1

Note:

The maximum antenna gain 3.2dBi is used in the report to evaluate Conducted and Radiated tests
For LTE Band 26 : 814.7MHz ~ 823.3 MHz is limited to FCC use only. IC Canada does not support this frequency band, and the firmware of products sold in this region will block this frequency band.

2.5 Modification of EUT

No modifications are made to the EUT during all test items.

2.6 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR Part 2, 22(H), 24(E), 27(C), 90(S)
- ♦ RSS-Gen Issue 5, Amendment 2, February 2021
- ♦ RSS-130 Issue 2, February 2019
- ♦ RSS-132 Issue 4 January 2023
- ♦ RSS-133 Issue 6, Amendment 1 January 2018
- ♦ RSS-139 Issue 4, September 2022
- ♦ ANSI C63.4-2014
- ♦ ANSI / TIA / EIA-603-E-2016
- ♦ ANSI C63.26-2015

FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, and ICES-003 recorded in a separate test report.

3 Test Configuration of Equipment Under Test

3.1 Test Mode

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

Radiated measurements were performed with rotating EUT in different three orthogonal test planes to find the maximum emission.

Radiated emissions were investigated from 30 MHz to 10th harmonic.

Test modes are chosen to be reported as the worst case configuration below:

Test Modes		
Band	Radiated TCs	Conducted TCs
GSM 850	■ GPRS Link ■ EDGE class 8 Link	■ GPRS Link ■ EDGE class 8 Link
GSM 1900	■ GPRS Link ■ EDGE class 8 Link	■ GPRS Link ■ EDGE class 8 Link

Test Items	Band	Bandwidth(MHz)						Modulation		RB#			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full	L	M	H
Max. Output Power and E.R.P./ E.I.R.P.	2	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	4	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	5	•	•	•	•	-	-	•	•	•	•	•	•	•	•
	12	•	•	•	•	-	-	•	•	•	•	•	•	•	•
	13	-	-	•	•	-	-	•	•	•	•	•	•	•	•
	25	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	26@22	•	•	•	•	•	-	•	•	•	•	•	•	•	•
	26@90	•	•	•	•	-	-	•	•	•	•	•	•	•	•
	66	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Peak-to-Average Ratio	85	-	-	•	•	-	-	•	•	•	•	•	•	•	•
	2	•	•	•	•	•	•	•	•	•	-	•	•	•	•
	4	•	•	•	•	•	•	•	•	•	-	•	•	•	•
	5	•	•	•	•	-	-	•	•	•	-	•	•	•	•
	12	•	•	•	•	-	-	•	•	•	-	•	•	•	•
	13	-	-	•	•	-	-	•	•	•	-	•	•	•	•
	25	•	•	•	•	•	•	•	•	•	-	•	•	•	•
	26@22	•	•	•	•	•	-	•	•	•	-	•	•	•	•
	26@90	•	•	•	•	-	-	•	•	•	-	•	•	•	•

	66	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	85	-	-	•	•	-	-	•	•	•	-	•	•	•	•	•
26dB and 99% Bandwidth	2	•	•	•	•	•	•	•	•	•	-	-	•	•	•	•
	4	•	•	•	•	•	•	•	•	•	-	-	•	•	•	•
	5	•	•	•	•	-	-	•	•	•	-	-	•	•	•	•
	12	•	•	•	•	-	-	•	•	•	-	-	•	•	•	•
	13	-	-	•	•	-	-	•	•	•	-	-	•	•	•	•
	25	•	•	•	•	•	•	•	•	•	-	-	•	•	•	•
	26@22	•	•	•	•	•	-	•	•	•	-	-	•	•	•	•
	26@90	•	•	•	•	-	-	•	•	•	-	-	•	•	•	•
	66	•	•	•	•	•	•	•	•	•	-	-	•	•	•	•
	85	-	-	•	•	-	-	•	•	•	-	-	•	•	•	•
Conducted Band Edge	2	•	•	•	•	•	•	•	•	•	•	-	•	•	•	•
	4	•	•	•	•	•	•	•	•	•	•	-	•	•	•	•
	5	•	•	•	•	-	-	•	•	•	•	-	•	•	•	•
	12	•	•	•	•	-	-	•	•	•	•	-	•	•	•	•
	13	-	-	•	•	-	-	•	•	•	•	-	•	•	•	•
	25	•	•	•	•	•	•	•	•	•	•	-	•	•	•	•
	26@22	•	•	•	•	•	-	•	•	•	•	-	•	•	•	•
	26@90	•	•	•	•	-	-	•	•	•	•	-	•	•	•	•
	66	•	•	•	•	•	•	•	•	•	•	-	•	•	•	•
	85	-	-	•	•	-	-	•	•	•	•	-	•	•	•	•
Conducted Spurious Emission	2	•	•	•	•	•	•	•	•	•	•	-	•	•	•	•
	4	•	•	•	•	•	•	•	•	•	-	-	•	•	•	•
	5	•	•	•	•	-	-	•	•	•	-	-	•	•	•	•
	12	•	•	•	•	-	-	•	•	•	-	-	•	•	•	•
	13	-	-	•	•	-	-	•	•	•	-	-	•	•	•	•
	25	•	•	•	•	•	•	•	•	•	-	-	•	•	•	•
	26@22	•	•	•	•	•	-	•	•	•	-	-	•	•	•	•
	26@90	•	•	•	•	-	-	•	•	•	-	-	•	•	•	•
	66	•	•	•	•	•	•	•	•	•	-	-	•	•	•	•
	85	-	-	•	•	-	-	•	•	•	-	-	•	•	•	•
Frequency Stability	2	•	•	•	•	•	•	•	•	•	-	-	•	•	•	•
	4	•	•	•	•	•	•	•	•	•	-	-	•	•	•	•
	5	•	•	•	•	-	-	•	•	•	-	-	•	•	•	•
	12	•	•	•	•	-	-	•	•	•	-	-	•	•	•	•
	13	-	-	•	•	-	-	•	•	•	-	-	•	•	•	•

	25	•	•	•	•	•	•	•	•	-	-	•	•	•	•
	26@22	•	•	•	•	•	-	•	•	-	-	•	•	•	•
	26@90	•	•	•	•	-	-	•	•	-	-	•	•	•	•
	66	•	•	•	•	•	•	•	•	-	-	•	•	•	•
	85	-	-	•	•	-	-	•	•	-	-	•	•	•	•
Radiated Spurious Emission	2	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	4	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	5	•	•	•	•	-	-	•	•	•	•	•	•	•	•
	12	•	•	•	•	-	-	•	•	•	•	•	•	•	•
	13	-	-	•	•	-	-	•	•	•	•	•	•	•	•
	25	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	26@22	•	•	•	•	•	-	•	•	•	•	•	•	•	•
	26@90	•	•	•	•	-	-	•	•	•	•	•	•	•	•
	66	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	85	-	-	•	•	-	-	•	•	•	•	•	•	•	•
Note	1. The mark "•" means that this configuration is chosen for testing. 2. The mark "-" means that this bandwidth is not supported. 3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.														

3.1.1 Receiver Radiated Emission Test

Radiated Test Cases	Receiver Radiated Emission
	Mode 1: LTE Band 2 Idle + GPS

Note : 1. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, XYZ axis, antenna ports (if EUT with antenna diversity architecture) and packet type. Z orientation was worst-case orientation; therefore, all final radiated testing was performed with the EUT in Z orientation.

2. Following channel(s) was (were) selected for the final test as listed above

3.2 Frequency List of Low/Middle/High Channels

For GSM

GSM 850 Channel	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
Low Range	128	824.2	128	869.2
Middle Range	190	836.6	190	881.6
High Range	251	848.8	251	893.8

GSM 1900 Channel	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
Low Range	512	1850.2	512	1930.2
Middle Range	661	1880	661	1960
High Range	810	1909.8	810	1989.8

For LTE

LTE Band 2 Channel	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
Low Range	1.4	18607	1850.7	607	1930.7
	3	18615	1851.5	615	1931.5
	5	18625	1852.5	625	1932.5
	10	18650	1855	650	1935
	15	18675	1857.5	675	1937.5
	20	18700	1860	700	1940
Middle Range	1.4/3/5/10/15/20	18900	1880	900	1960
High Range	1.4	19193	1909.3	1193	1989.3
	3	19185	1908.5	1185	1988.5
	5	19175	1907.5	1175	1987.5
	10	19150	1905	1150	1985
	15	19125	1902.5	1125	1982.5
	20	19100	1900	1100	1980

LTE Band 4 Channel	Bandwidth[MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
Low Range	1.4	19957	1710.7	1957	2110.7
	3	19965	1711.5	1965	2111.5
	5	19975	1712.5	1975	2112.5
	10	20000	1715	2000	2115
	15	20025	1717.5	2025	2117.5
	20	20050	1720	2050	2120
Middle Range	1.4/3/5/10/15/20	20175	1732.5	2175	2132.5
High Range	1.4	20393	1754.3	2393	2154.3
	3	20385	1753.5	2385	2153.5
	5	20375	1752.5	2375	2152.5
	10	20350	1750	2350	2150
	15	20325	1747.5	2325	2147.5
	20	20300	1745	2300	2145

LTE Band 5 Channel	Bandwidth[MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
Low Range	1.4	20407	824.7	2407	869.7
	3	20415	825.5	2415	870.5
	5	20425	826.5	2425	871.5
	10	20450	829	2450	874
Middle Range	1.4/3/5/10	20525	836.5	2525	881.5
High Range	1.4	20643	848.3	2643	893.3
	3	20635	847.5	2635	892.5
	5	20625	846.5	2625	891.5
	10	20600	844	2600	889

LTE Band 12 Channel	Bandwidth[MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
Low Range	1.4	23017	699.7	5017	729.7
	3	23025	700.5	5025	730.5
	5	23035	701.5	5035	731.5
	10	23060	704	5060	734
Middle Range	1.4/3/5/10	23095	707.5	5095	737.5
High Range	1.4	23173	715.3	5173	745.3
	3	23165	714.5	5165	744.5
	5	23155	713.5	5155	743.5
	10	23130	711	5130	741

LTE Band 13 Channel	Bandwidth[MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
Low Range	5	23205	779.5	5205	748.5
	10	23230	782	5230	751
Middle Range	5/10	23230	782	5230	751
High Range	5	23255	784.5	5255	753.5
	10	23230	782	5230	751

LTE Band 25 Channel	Bandwidth[MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
Low Range	1.4	26047	1850.7	8047	1930.7
	3	26055	1851.5	8055	1931.5
	5	26065	1852.5	8065	1932.5
	10	26090	1855	8090	1935
	15	26115	1857.5	8115	1937.5
	20	26140	1860	8140	1940
Middle Range	1.4/3/5/10/15/20	26365	1882.5	8365	1962.5
High Range	1.4	26683	1914.3	8683	1994.3
	3	26675	1913.5	8675	1993.5
	5	26665	1912.5	8665	1992.5
	10	26640	1910	8640	1990
	15	26615	1907.5	8615	1987.5
	20	26590	1905	8590	1985

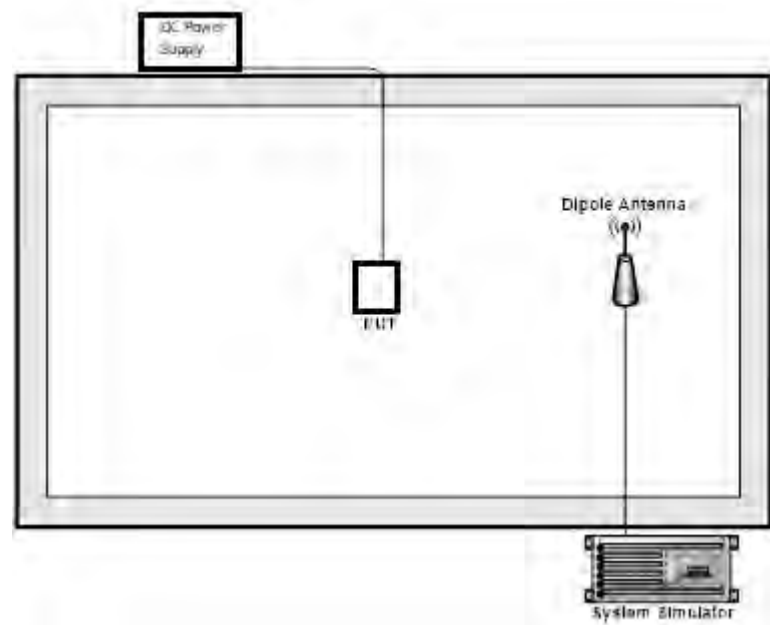
LTE Band 26 Channel @FCC Part 22	Bandwidth[MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
Low Range	1.4	26797	824.7	8797	869.7
	3	26805	825.5	8805	870.5
	5	26815	826.5	8815	871.5
	10	26840	829	8840	874
	15	26865	831.5	8865	876.5
Middle Range	1.4/3/5/10/15	26915	836.5	8865	876.5
High Range	1.4	27033	848.3	9033	893.3
	3	27025	847.5	9025	892.5
	5	27015	846.5	9015	891.5
	10	26990	844	8990	889
	15	26965	841.5	8965	886.5

LTE Band 26 Channel @FCC Part 90	Bandwidth[MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
Low Range	1.4	26697	814.7	8697	859.7
	3	26705	815.5	8705	860.5
	5	26715	816.5	8715	861.5
	10	26740	819	8740	864
Middle Range	1.4/3/5/10	26740	819	8865	876.5
High Range	1.4	26783	823.3	8783	868.3
	3	26775	822.5	8775	867.5
	5	26765	821.5	8765	866.5
	10	26740	819	8740	864

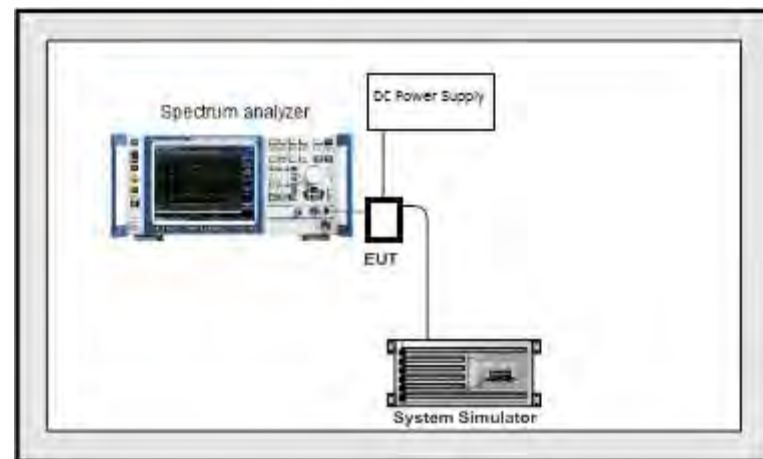
LTE Band 66 Channel	Bandwidth[MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
Low Range	1.4	131979	1710.7	66443	2110.7
	3	131987	1711.5	66451	2111.5
	5	131997	1712.5	66461	2112.5
	10	132022	1715	66486	2115
	15	132047	1717.5	66511	2117.5
	20	132072	1720	66536	2120
Middle Range	1.4/3/5/10/15/20	132322	1745	66786	2145
High Range	1.4	132665	1779.3	67129	2179.3
	3	132657	1778.5	67121	2178.5
	5	132647	1777.5	67111	2177.5
	10	132622	1775	67086	2175
	15	132597	1772.5	67061	2172.5
	20	132572	1770	67036	2170

LTE Band 85 Channel	Bandwidth[MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
Low Range	5	134027	700.5	70391	730.5
	10	134052	703	70416	733
Middle Range	5/10	134092	707	70456	737
High Range	5	134157	713.5	70521	743.5
	10	134132	711	70496	741

3.3 Connection Diagram of Test System



Radiated Setup



Conducted Setup

3.4 Support Unit used in test configuration

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU 500	N/A	N/A	Unshielded, 1.8 m
2.	DC Power Supply	Keysight	E3642A	N/A	N/A	Unshielded, 1.8 m

3.5 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between RF conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level will be exactly the RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

The following shows an offset computation example with RF cable loss 4.5 dB and a 10dB attenuator.

Example :

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\ &= 4.5 + 10 = 14.5 \text{ (dB)}\end{aligned}$$

For all radiated test items:

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamplifier Factor = Level

Over Limit (dB μ V/m) = Level(dB μ V/m) - Limit Level (dB μ V/m)

4 Conducted Test Result

4.1 Measuring Instruments

See list of measuring instruments of this test report.

4.2 Conducted Output Power and E.R.P./E.I.R.P.

4.2.1 Description of the Conducted Output Power

All LTE bands conducted average power is obtained from the CMW500 telecommunication test set.

The following tests were conducted according to the test requirements outlined in section 6.2 of the 3GPP TS36.101 specification.

UE Power Class: 3 (23 +/- 2dBm). The allowed Maximum Power Reduction (MPR) for the maximum output power due to higher order modulation and transmit bandwidth configuration (resource blocks) is specified in Table 6.2.3-1 of the 3GPP TS36.101.

Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3

Modulation	Channel bandwidth / Transmission bandwidth (N_{RB})						MPR (dB)
	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2
64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 2
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 3
256 QAM	≥ 1						≤ 5

4.2.2 E.R.P. /E.I.R.P. Limit

FCC: §2.1046, §22.913, §24.232, §27.50

IC: RSS-132 5.4, RSS-130 4.6, RSS-130 4.6, RSS-133 6.4, RSS-130 4.6, RSS-139 6.5

22.913(a) - The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts

24.232(c) - Mobile/portable stations are limited to 2 watts e.i.r.p. peak power and the equipment must employ means to limit the power to the minimum necessary for successful communications

27.50 (c) (10) the following power and antenna height requirements apply to stations transmitting in

the 698–746 MHz band, the portable stations (hand-held devices) are limited to 3 watts ERP.

27.50 (b)(10) Portable stations (hand-held devices) transmitting in the 746–757 MHz, 758–763 MHz, 776–793 MHz, and 805–806 MHz bands are limited to 3 watts ERP.

27.50 (d)(4) The following power and antenna height requirements apply to stations transmitting in the 1710–1755 MHz and 2110–2155 MHz bands: Fixed, mobile, and portable (hand-held) stations operating in the 1710–1755 MHz band are limited to 1 watt EIRP

90.635 (b)The maximum output power of the transmitter for mobile stations is 100 watts (20 dBw).

4.2.3 Test Procedures

1. The transmitter output port was connected to the system simulator.
2. Set EUT at maximum power through the system simulator.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Measure and record the power level from the system simulator.

4.2.4 Test Setup



4.2.5 Test Results

GSM

Band	Channel	Slot	Power(dBm)	E.R.P./E.I.R.P.(dBm)	Limit(dBm)	Verdict
GPRS850	128	1	31.91	32.96	38.45	PASS
GPRS850	128	2	31.64	32.69	38.45	PASS
GPRS850	128	3	29.96	31.01	38.45	PASS
GPRS850	128	4	29.12	30.17	38.45	PASS
GPRS850	190	1	31.78	32.83	38.45	PASS
GPRS850	190	2	31.64	32.69	38.45	PASS
GPRS850	190	3	29.96	31.01	38.45	PASS
GPRS850	190	4	29.17	30.22	38.45	PASS
GPRS850	251	1	31.86	32.91	38.45	PASS
GPRS850	251	2	31.74	32.79	38.45	PASS

GPRS850	251	3	30.71	31.76	38.45	PASS
GPRS850	251	4	29.26	30.31	38.45	PASS
GPRS1900	512	1	29.06	32.26	33	PASS
GPRS1900	512	2	27.39	30.59	33	PASS
GPRS1900	512	3	25.3	28.5	33	PASS
GPRS1900	512	4	24.98	28.18	33	PASS
GPRS1900	661	1	29.02	32.22	33	PASS
GPRS1900	661	2	28.1	31.3	33	PASS
GPRS1900	661	3	26.42	29.62	33	PASS
GPRS1900	661	4	25.16	28.36	33	PASS
GPRS1900	810	1	29.48	32.68	33	PASS
GPRS1900	810	2	28.03	31.23	33	PASS
GPRS1900	810	3	26.24	29.44	33	PASS
GPRS1900	810	4	24.98	28.18	33	PASS

Band	Channel	Slot	Power(dBm)	E.R.P./E.I.R.P.(dBm)	Limit(dBm)	Verdict
EGPRS850	128	1	26.52	27.57	38.45	PASS
EGPRS850	128	2	25.63	26.68	38.45	PASS
EGPRS850	128	3	24.19	25.24	38.45	PASS
EGPRS850	128	4	22.87	23.92	38.45	PASS
EGPRS850	190	1	25.82	26.87	38.45	PASS
EGPRS850	190	2	25.18	26.23	38.45	PASS
EGPRS850	190	3	23.78	24.83	38.45	PASS
EGPRS850	190	4	22.52	23.57	38.45	PASS
EGPRS850	251	1	25.97	27.02	38.45	PASS
EGPRS850	251	2	25.12	26.17	38.45	PASS
EGPRS850	251	3	23.77	24.82	38.45	PASS
EGPRS850	251	4	22.53	23.58	38.45	PASS
EGPRS1900	512	1	24.52	27.72	33	PASS
EGPRS1900	512	2	23.51	26.71	33	PASS
EGPRS1900	512	3	21.95	25.15	33	PASS
EGPRS1900	512	4	20.89	24.09	33	PASS
EGPRS1900	661	1	24.77	27.97	33	PASS

EGPRS1900	661	2	23.69	26.89	33	PASS
EGPRS1900	661	3	22.13	25.33	33	PASS
EGPRS1900	661	4	21.05	24.25	33	PASS
EGPRS1900	810	1	24.73	27.93	33	PASS
EGPRS1900	810	2	23.76	26.96	33	PASS
EGPRS1900	810	3	22.1	25.3	33	PASS
EGPRS1900	810	4	20.95	24.15	33	PASS

LTE Cat M1

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Result(dBm)	E.R.P./E.I.R.P. (dBm)	Verdict
Band2	1.4MHz	18607	QPSK	1	0	Low	19.95	23.15	PASS
Band2	1.4MHz	18607	QPSK	1	5	Low	19.91	23.11	PASS
Band2	1.4MHz	18607	QPSK	6	0	Low	17.57	20.77	PASS
Band2	1.4MHz	18607	16QAM	1	0	Low	18.71	21.91	PASS
Band2	1.4MHz	18607	16QAM	1	5	Low	18.54	21.74	PASS
Band2	1.4MHz	18607	16QAM	6	0	Low	17.66	20.86	PASS
Band2	1.4MHz	18900	QPSK	1	0	Low	19.98	23.18	PASS
Band2	1.4MHz	18900	QPSK	1	5	Low	19.82	23.02	PASS
Band2	1.4MHz	18900	QPSK	6	0	Low	17.7	20.9	PASS
Band2	1.4MHz	18900	16QAM	1	0	Low	18.88	22.08	PASS
Band2	1.4MHz	18900	16QAM	1	5	Low	18.68	21.88	PASS
Band2	1.4MHz	18900	16QAM	6	0	Low	17.7	20.9	PASS
Band2	1.4MHz	19193	QPSK	1	0	High	20.3	23.5	PASS
Band2	1.4MHz	19193	QPSK	1	5	High	20.02	23.22	PASS
Band2	1.4MHz	19193	QPSK	6	0	High	17.81	21.01	PASS
Band2	1.4MHz	19193	16QAM	1	0	High	18.82	22.02	PASS
Band2	1.4MHz	19193	16QAM	1	5	High	18.81	22.01	PASS
Band2	1.4MHz	19193	16QAM	6	0	High	17.81	21.01	PASS
Band2	3MHz	18615	QPSK	1	0	Low	19.94	23.14	PASS
Band2	3MHz	18615	QPSK	1	5	Low	19.83	23.03	PASS
Band2	3MHz	18615	QPSK	6	0	Low	17.65	20.85	PASS

Band2	3MHz	18615	16QAM	1	0	Low	18.85	22.05	PASS
Band2	3MHz	18615	16QAM	1	5	Low	18.68	21.88	PASS
Band2	3MHz	18615	16QAM	6	0	Low	17.65	20.85	PASS
Band2	3MHz	18900	QPSK	1	0	Low	20.18	23.38	PASS
Band2	3MHz	18900	QPSK	1	5	Low	19.92	23.12	PASS
Band2	3MHz	18900	QPSK	6	0	Low	17.74	20.94	PASS
Band2	3MHz	18900	16QAM	1	0	Low	18.79	21.99	PASS
Band2	3MHz	18900	16QAM	1	5	Low	18.81	22.01	PASS
Band2	3MHz	18900	16QAM	6	0	Low	17.74	20.94	PASS
Band2	3MHz	19185	QPSK	1	0	High	20.27	23.47	PASS
Band2	3MHz	19185	QPSK	1	5	High	20.16	23.36	PASS
Band2	3MHz	19185	QPSK	6	0	High	17.77	20.97	PASS
Band2	3MHz	19185	16QAM	1	0	High	19.08	22.28	PASS
Band2	3MHz	19185	16QAM	1	5	High	18.86	22.06	PASS
Band2	3MHz	19185	16QAM	6	0	High	17.87	21.07	PASS
Band2	5MHz	18625	QPSK	1	0	Low	19.88	23.08	PASS
Band2	5MHz	18625	QPSK	1	5	Low	19.86	23.06	PASS
Band2	5MHz	18625	QPSK	6	0	Low	18.69	21.89	PASS
Band2	5MHz	18625	16QAM	1	0	Low	20.06	23.26	PASS
Band2	5MHz	18625	16QAM	1	5	Low	20.03	23.23	PASS
Band2	5MHz	18625	16QAM	6	0	Low	18.7	21.9	PASS
Band2	5MHz	18900	QPSK	1	0	Low	20.06	23.26	PASS
Band2	5MHz	18900	QPSK	1	5	Low	20.03	23.23	PASS
Band2	5MHz	18900	QPSK	6	0	Low	18.71	21.91	PASS
Band2	5MHz	18900	16QAM	1	0	Low	20.27	23.47	PASS
Band2	5MHz	18900	16QAM	1	5	Low	20.18	23.38	PASS
Band2	5MHz	18900	16QAM	6	0	Low	18.72	21.92	PASS
Band2	5MHz	19175	QPSK	1	0	High	20.21	23.41	PASS
Band2	5MHz	19175	QPSK	1	5	High	20.09	23.29	PASS
Band2	5MHz	19175	QPSK	6	0	High	18.74	21.94	PASS
Band2	5MHz	19175	16QAM	1	0	High	20.41	23.61	PASS
Band2	5MHz	19175	16QAM	1	5	High	20.2	23.4	PASS
Band2	5MHz	19175	16QAM	6	0	High	18.74	21.94	PASS
Band2	10MHz	18650	QPSK	1	0	Low	19.97	23.17	PASS
Band2	10MHz	18650	QPSK	1	5	Low	19.85	23.05	PASS
Band2	10MHz	18650	QPSK	6	0	Low	18.61	21.81	PASS

Band2	10MHz	18650	16QAM	1	0	Low	20.06	23.26	PASS
Band2	10MHz	18650	16QAM	1	5	Low	19.96	23.16	PASS
Band2	10MHz	18650	16QAM	6	0	Low	18.6	21.8	PASS
Band2	10MHz	18900	QPSK	1	0	Low	20.09	23.29	PASS
Band2	10MHz	18900	QPSK	1	5	Low	19.97	23.17	PASS
Band2	10MHz	18900	QPSK	6	0	Low	18.7	21.9	PASS
Band2	10MHz	18900	16QAM	1	0	Low	20.2	23.4	PASS
Band2	10MHz	18900	16QAM	1	5	Low	20.18	23.38	PASS
Band2	10MHz	18900	16QAM	6	0	Low	18.7	21.9	PASS
Band2	10MHz	19150	QPSK	1	0	High	20.29	23.49	PASS
Band2	10MHz	19150	QPSK	1	5	High	20.18	23.38	PASS
Band2	10MHz	19150	QPSK	6	0	High	18.75	21.95	PASS
Band2	10MHz	19150	16QAM	1	0	High	20.45	23.65	PASS
Band2	10MHz	19150	16QAM	1	5	High	20.17	23.37	PASS
Band2	10MHz	19150	16QAM	6	0	High	18.76	21.96	PASS
Band2	15MHz	18675	QPSK	1	0	Low	19.86	23.06	PASS
Band2	15MHz	18675	QPSK	1	5	Low	19.84	23.04	PASS
Band2	15MHz	18675	QPSK	6	0	Low	19.7	22.9	PASS
Band2	15MHz	18675	16QAM	1	0	Low	20.07	23.27	PASS
Band2	15MHz	18675	16QAM	1	5	Low	20.02	23.22	PASS
Band2	15MHz	18675	16QAM	6	0	Low	19.73	22.93	PASS
Band2	15MHz	18900	QPSK	1	0	Low	19.99	23.19	PASS
Band2	15MHz	18900	QPSK	1	5	Low	20.04	23.24	PASS
Band2	15MHz	18900	QPSK	6	0	Low	19.83	23.03	PASS
Band2	15MHz	18900	16QAM	1	0	Low	20.23	23.43	PASS
Band2	15MHz	18900	16QAM	1	5	Low	20.1	23.3	PASS
Band2	15MHz	18900	16QAM	6	0	Low	19.83	23.03	PASS
Band2	15MHz	19125	QPSK	1	0	High	20.38	23.58	PASS
Band2	15MHz	19125	QPSK	1	5	High	20.13	23.33	PASS
Band2	15MHz	19125	QPSK	6	0	High	19.85	23.05	PASS
Band2	15MHz	19125	16QAM	1	0	High	20.36	23.56	PASS
Band2	15MHz	19125	16QAM	1	5	High	20.21	23.41	PASS
Band2	15MHz	19125	16QAM	6	0	High	19.91	23.11	PASS
Band2	20MHz	18700	QPSK	1	0	Low	19.92	23.12	PASS
Band2	20MHz	18700	QPSK	1	5	Low	19.87	23.07	PASS
Band2	20MHz	18700	QPSK	6	0	Low	19.66	22.86	PASS

Band2	20MHz	18700	16QAM	1	0	Low	20.2	23.4	PASS
Band2	20MHz	18700	16QAM	1	5	Low	20.01	23.21	PASS
Band2	20MHz	18700	16QAM	6	0	Low	19.66	22.86	PASS
Band2	20MHz	18900	QPSK	1	0	Low	20.01	23.21	PASS
Band2	20MHz	18900	QPSK	1	5	Low	19.98	23.18	PASS
Band2	20MHz	18900	QPSK	6	0	Low	19.75	22.95	PASS
Band2	20MHz	18900	16QAM	1	0	Low	20.2	23.4	PASS
Band2	20MHz	18900	16QAM	1	5	Low	20.1	23.3	PASS
Band2	20MHz	18900	16QAM	6	0	Low	19.75	22.95	PASS
Band2	20MHz	19100	QPSK	1	0	High	20.21	23.41	PASS
Band2	20MHz	19100	QPSK	1	5	High	20.18	23.38	PASS
Band2	20MHz	19100	QPSK	6	0	High	19.95	23.15	PASS
Band2	20MHz	19100	16QAM	1	0	High	20.43	23.63	PASS
Band2	20MHz	19100	16QAM	1	5	High	20.29	23.49	PASS
Band2	20MHz	19100	16QAM	6	0	High	19.95	23.15	PASS
Band4	1.4MHz	19957	QPSK	1	0	Low	20.12	23.32	PASS
Band4	1.4MHz	19957	QPSK	1	5	Low	19.94	23.14	PASS
Band4	1.4MHz	19957	QPSK	6	0	Low	17.71	20.91	PASS
Band4	1.4MHz	19957	16QAM	1	0	Low	19.07	22.27	PASS
Band4	1.4MHz	19957	16QAM	1	5	Low	18.88	22.08	PASS
Band4	1.4MHz	19957	16QAM	6	0	Low	17.71	20.91	PASS
Band4	1.4MHz	20175	QPSK	1	0	Low	20	23.2	PASS
Band4	1.4MHz	20175	QPSK	1	5	Low	19.68	22.88	PASS
Band4	1.4MHz	20175	QPSK	6	0	Low	17.7	20.9	PASS
Band4	1.4MHz	20175	16QAM	1	0	Low	18.92	22.12	PASS
Band4	1.4MHz	20175	16QAM	1	5	Low	18.73	21.93	PASS
Band4	1.4MHz	20175	16QAM	6	0	Low	17.7	20.9	PASS
Band4	1.4MHz	20393	QPSK	1	0	High	19.83	23.03	PASS
Band4	1.4MHz	20393	QPSK	1	5	High	19.7	22.9	PASS
Band4	1.4MHz	20393	QPSK	6	0	High	17.55	20.75	PASS
Band4	1.4MHz	20393	16QAM	1	0	High	18.73	21.93	PASS
Band4	1.4MHz	20393	16QAM	1	5	High	18.7	21.9	PASS
Band4	1.4MHz	20393	16QAM	6	0	High	17.55	20.75	PASS
Band4	3MHz	19965	QPSK	1	0	Low	20.01	23.21	PASS
Band4	3MHz	19965	QPSK	1	5	Low	19.8	23	PASS
Band4	3MHz	19965	QPSK	6	0	Low	17.78	20.98	PASS

Band4	3MHz	19965	16QAM	1	0	Low	18.97	22.17	PASS
Band4	3MHz	19965	16QAM	1	5	Low	18.74	21.94	PASS
Band4	3MHz	19965	16QAM	6	0	Low	17.8	21	PASS
Band4	3MHz	20175	QPSK	1	0	Low	20.01	23.21	PASS
Band4	3MHz	20175	QPSK	1	5	Low	19.9	23.1	PASS
Band4	3MHz	20175	QPSK	6	0	Low	17.67	20.87	PASS
Band4	3MHz	20175	16QAM	1	0	Low	18.91	22.11	PASS
Band4	3MHz	20175	16QAM	1	5	Low	18.83	22.03	PASS
Band4	3MHz	20175	16QAM	6	0	Low	17.68	20.88	PASS
Band4	3MHz	20385	QPSK	1	0	High	19.82	23.02	PASS
Band4	3MHz	20385	QPSK	1	5	High	19.72	22.92	PASS
Band4	3MHz	20385	QPSK	6	0	High	17.56	20.76	PASS
Band4	3MHz	20385	16QAM	1	0	High	18.75	21.95	PASS
Band4	3MHz	20385	16QAM	1	5	High	18.71	21.91	PASS
Band4	3MHz	20385	16QAM	6	0	High	17.57	20.77	PASS
Band4	5MHz	19975	QPSK	1	0	Low	20.08	23.28	PASS
Band4	5MHz	19975	QPSK	1	5	Low	20.02	23.22	PASS
Band4	5MHz	19975	QPSK	6	0	Low	18.6	21.8	PASS
Band4	5MHz	19975	16QAM	1	0	Low	20.29	23.49	PASS
Band4	5MHz	19975	16QAM	1	5	Low	20.05	23.25	PASS
Band4	5MHz	19975	16QAM	6	0	Low	18.68	21.88	PASS
Band4	5MHz	20175	QPSK	1	0	Low	20.04	23.24	PASS
Band4	5MHz	20175	QPSK	1	5	Low	19.84	23.04	PASS
Band4	5MHz	20175	QPSK	6	0	Low	18.61	21.81	PASS
Band4	5MHz	20175	16QAM	1	0	Low	20.05	23.25	PASS
Band4	5MHz	20175	16QAM	1	5	Low	20.02	23.22	PASS
Band4	5MHz	20175	16QAM	6	0	Low	18.65	21.85	PASS
Band4	5MHz	20375	QPSK	1	0	High	19.78	22.98	PASS
Band4	5MHz	20375	QPSK	1	5	High	19.73	22.93	PASS
Band4	5MHz	20375	QPSK	6	0	High	18.45	21.65	PASS
Band4	5MHz	20375	16QAM	1	0	High	19.9	23.1	PASS
Band4	5MHz	20375	16QAM	1	5	High	19.73	22.93	PASS
Band4	5MHz	20375	16QAM	6	0	High	18.46	21.66	PASS
Band4	10MHz	20000	QPSK	1	0	Low	19.32	22.52	PASS
Band4	10MHz	20000	QPSK	1	5	Low	19.31	22.51	PASS
Band4	10MHz	20000	QPSK	6	0	Low	19.29	22.49	PASS

Band4	10MHz	20000	16QAM	1	0	Low	19.31	22.51	PASS
Band4	10MHz	20000	16QAM	1	5	Low	19.29	22.49	PASS
Band4	10MHz	20000	16QAM	6	0	Low	19.3	22.5	PASS
Band4	10MHz	20175	QPSK	1	0	Low	19.38	22.58	PASS
Band4	10MHz	20175	QPSK	1	5	Low	19.36	22.56	PASS
Band4	10MHz	20175	QPSK	6	0	Low	19.35	22.55	PASS
Band4	10MHz	20175	16QAM	1	0	Low	19.37	22.57	PASS
Band4	10MHz	20175	16QAM	1	5	Low	19.35	22.55	PASS
Band4	10MHz	20175	16QAM	6	0	Low	19.34	22.54	PASS
Band4	10MHz	20350	QPSK	1	0	High	19.12	22.32	PASS
Band4	10MHz	20350	QPSK	1	5	High	19.11	22.31	PASS
Band4	10MHz	20350	QPSK	6	0	High	19.19	22.39	PASS
Band4	10MHz	20350	16QAM	1	0	High	19.11	22.31	PASS
Band4	10MHz	20350	16QAM	1	5	High	19.19	22.39	PASS
Band4	10MHz	20350	16QAM	6	0	High	19.18	22.38	PASS
Band4	15MHz	20025	QPSK	1	0	Low	20.12	23.32	PASS
Band4	15MHz	20025	QPSK	1	5	Low	20.02	23.22	PASS
Band4	15MHz	20025	QPSK	6	0	Low	19.79	22.99	PASS
Band4	15MHz	20025	16QAM	1	0	Low	20.12	23.32	PASS
Band4	15MHz	20025	16QAM	1	5	Low	20.01	23.21	PASS
Band4	15MHz	20025	16QAM	6	0	Low	19.78	22.98	PASS
Band4	15MHz	20175	QPSK	1	0	Low	20.01	23.21	PASS
Band4	15MHz	20175	QPSK	1	5	Low	19.95	23.15	PASS
Band4	15MHz	20175	QPSK	6	0	Low	19.74	22.94	PASS
Band4	15MHz	20175	16QAM	1	0	Low	20.18	23.38	PASS
Band4	15MHz	20175	16QAM	1	5	Low	20.01	23.21	PASS
Band4	15MHz	20175	16QAM	6	0	Low	19.82	23.02	PASS
Band4	15MHz	20325	QPSK	1	0	High	19.99	23.19	PASS
Band4	15MHz	20325	QPSK	1	5	High	19.75	22.95	PASS
Band4	15MHz	20325	QPSK	6	0	High	19.51	22.71	PASS
Band4	15MHz	20325	16QAM	1	0	High	19.87	23.07	PASS
Band4	15MHz	20325	16QAM	1	5	High	19.82	23.02	PASS
Band4	15MHz	20325	16QAM	6	0	High	19.51	22.71	PASS
Band4	20MHz	20050	QPSK	1	0	Low	20.04	23.24	PASS
Band4	20MHz	20050	QPSK	1	5	Low	19.89	23.09	PASS
Band4	20MHz	20050	QPSK	6	0	Low	19.74	22.94	PASS

Band4	20MHz	20050	16QAM	1	0	Low	20.2	23.4	PASS
Band4	20MHz	20050	16QAM	1	5	Low	19.99	23.19	PASS
Band4	20MHz	20050	16QAM	6	0	Low	19.8	23	PASS
Band4	20MHz	20175	QPSK	1	0	Low	20.09	23.29	PASS
Band4	20MHz	20175	QPSK	1	5	Low	20.05	23.25	PASS
Band4	20MHz	20175	QPSK	6	0	Low	19.73	22.93	PASS
Band4	20MHz	20175	16QAM	1	0	Low	20.05	23.25	PASS
Band4	20MHz	20175	16QAM	1	5	Low	19.96	23.16	PASS
Band4	20MHz	20175	16QAM	6	0	Low	19.8	23	PASS
Band4	20MHz	20300	QPSK	1	0	High	19.74	22.94	PASS
Band4	20MHz	20300	QPSK	1	5	High	19.69	22.89	PASS
Band4	20MHz	20300	QPSK	6	0	High	19.49	22.69	PASS
Band4	20MHz	20300	16QAM	1	0	High	19.92	23.12	PASS
Band4	20MHz	20300	16QAM	1	5	High	19.71	22.91	PASS
Band4	20MHz	20300	16QAM	6	0	High	19.54	22.74	PASS
Band5	1.4MHz	20407	QPSK	1	0	Low	19.94	20.99	PASS
Band5	1.4MHz	20407	QPSK	1	5	Low	19.81	20.86	PASS
Band5	1.4MHz	20407	QPSK	6	0	Low	17.42	18.47	PASS
Band5	1.4MHz	20407	16QAM	1	0	Low	18.44	19.49	PASS
Band5	1.4MHz	20407	16QAM	1	5	Low	18.48	19.53	PASS
Band5	1.4MHz	20407	16QAM	6	0	Low	17.43	18.48	PASS
Band5	1.4MHz	20525	QPSK	1	0	Low	20.51	21.56	PASS
Band5	1.4MHz	20525	QPSK	1	5	Low	19.96	21.01	PASS
Band5	1.4MHz	20525	QPSK	6	0	Low	17.72	18.77	PASS
Band5	1.4MHz	20525	16QAM	1	0	Low	18.93	19.98	PASS
Band5	1.4MHz	20525	16QAM	1	5	Low	18.85	19.9	PASS
Band5	1.4MHz	20525	16QAM	6	0	Low	17.72	18.77	PASS
Band5	1.4MHz	20643	QPSK	1	0	High	20.42	21.47	PASS
Band5	1.4MHz	20643	QPSK	1	5	High	19.89	20.94	PASS
Band5	1.4MHz	20643	QPSK	6	0	High	17.81	18.86	PASS
Band5	1.4MHz	20643	16QAM	1	0	High	18.95	20	PASS
Band5	1.4MHz	20643	16QAM	1	5	High	18.85	19.9	PASS
Band5	1.4MHz	20643	16QAM	6	0	High	17.63	18.68	PASS
Band5	3MHz	20415	QPSK	1	0	Low	19.91	20.96	PASS
Band5	3MHz	20415	QPSK	1	5	Low	19.78	20.83	PASS
Band5	3MHz	20415	QPSK	6	0	Low	17.48	18.53	PASS

Band5	3MHz	20415	16QAM	1	0	Low	18.59	19.64	PASS
Band5	3MHz	20415	16QAM	1	5	Low	18.54	19.59	PASS
Band5	3MHz	20415	16QAM	6	0	Low	17.43	18.48	PASS
Band5	3MHz	20525	QPSK	1	0	Low	20.37	21.42	PASS
Band5	3MHz	20525	QPSK	1	5	Low	20.24	21.29	PASS
Band5	3MHz	20525	QPSK	6	0	Low	17.86	18.91	PASS
Band5	3MHz	20525	16QAM	1	0	Low	18.98	20.03	PASS
Band5	3MHz	20525	16QAM	1	5	Low	18.92	19.97	PASS
Band5	3MHz	20525	16QAM	6	0	Low	17.77	18.82	PASS
Band5	3MHz	20635	QPSK	1	0	High	20.44	21.49	PASS
Band5	3MHz	20635	QPSK	1	5	High	20.35	21.4	PASS
Band5	3MHz	20635	QPSK	6	0	High	17.87	18.92	PASS
Band5	3MHz	20635	16QAM	1	0	High	19.01	20.06	PASS
Band5	3MHz	20635	16QAM	1	5	High	18.9	19.95	PASS
Band5	3MHz	20635	16QAM	6	0	High	17.79	18.84	PASS
Band5	5MHz	20425	QPSK	1	0	Low	19.97	21.02	PASS
Band5	5MHz	20425	QPSK	1	5	Low	19.88	20.93	PASS
Band5	5MHz	20425	QPSK	6	0	Low	18.54	19.59	PASS
Band5	5MHz	20425	16QAM	1	0	Low	20.07	21.12	PASS
Band5	5MHz	20425	16QAM	1	5	Low	19.91	20.96	PASS
Band5	5MHz	20425	16QAM	6	0	Low	18.54	19.59	PASS
Band5	5MHz	20525	QPSK	1	0	Low	20.15	21.2	PASS
Band5	5MHz	20525	QPSK	1	5	Low	20.12	21.17	PASS
Band5	5MHz	20525	QPSK	6	0	Low	18.63	19.68	PASS
Band5	5MHz	20525	16QAM	1	0	Low	20.53	21.58	PASS
Band5	5MHz	20525	16QAM	1	5	Low	20.24	21.29	PASS
Band5	5MHz	20525	16QAM	6	0	Low	18.72	19.77	PASS
Band5	5MHz	20625	QPSK	1	0	High	20.52	21.57	PASS
Band5	5MHz	20625	QPSK	1	5	High	20.32	21.37	PASS
Band5	5MHz	20625	QPSK	6	0	High	18.74	19.79	PASS
Band5	5MHz	20625	16QAM	1	0	High	20.51	21.56	PASS
Band5	5MHz	20625	16QAM	1	5	High	20.35	21.4	PASS
Band5	5MHz	20625	16QAM	6	0	High	18.82	19.87	PASS
Band5	10MHz	20450	QPSK	1	0	Low	20.08	21.13	PASS
Band5	10MHz	20450	QPSK	1	5	Low	19.97	21.02	PASS
Band5	10MHz	20450	QPSK	6	0	Low	18.53	19.58	PASS

Band5	10MHz	20450	16QAM	1	0	Low	20.14	21.19	PASS
Band5	10MHz	20450	16QAM	1	5	Low	20.07	21.12	PASS
Band5	10MHz	20450	16QAM	6	0	Low	18.41	19.46	PASS
Band5	10MHz	20525	QPSK	1	0	Low	20.35	21.4	PASS
Band5	10MHz	20525	QPSK	1	5	Low	20.24	21.29	PASS
Band5	10MHz	20525	QPSK	6	0	Low	18.62	19.67	PASS
Band5	10MHz	20525	16QAM	1	0	Low	20.33	21.38	PASS
Band5	10MHz	20525	16QAM	1	5	Low	20.18	21.23	PASS
Band5	10MHz	20525	16QAM	6	0	Low	18.7	19.75	PASS
Band5	10MHz	20600	QPSK	1	0	High	20.53	21.58	PASS
Band5	10MHz	20600	QPSK	1	5	High	20.37	21.42	PASS
Band5	10MHz	20600	QPSK	6	0	High	18.8	19.85	PASS
Band5	10MHz	20600	16QAM	1	0	High	20.51	21.56	PASS
Band5	10MHz	20600	16QAM	1	5	High	20.22	21.27	PASS
Band5	10MHz	20600	16QAM	6	0	High	18.81	19.86	PASS
Band12	1.4MHz	23017	QPSK	1	0	Low	20.63	21.68	PASS
Band12	1.4MHz	23017	QPSK	1	5	Low	20.49	21.54	PASS
Band12	1.4MHz	23017	QPSK	6	0	Low	18.37	19.42	PASS
Band12	1.4MHz	23017	16QAM	1	0	Low	19.42	20.47	PASS
Band12	1.4MHz	23017	16QAM	1	5	Low	19.37	20.42	PASS
Band12	1.4MHz	23017	16QAM	6	0	Low	18.45	19.5	PASS
Band12	1.4MHz	23095	QPSK	1	0	Low	20.32	21.37	PASS
Band12	1.4MHz	23095	QPSK	1	5	Low	20.15	21.2	PASS
Band12	1.4MHz	23095	QPSK	6	0	Low	17.95	19	PASS
Band12	1.4MHz	23095	16QAM	1	0	Low	19.02	20.07	PASS
Band12	1.4MHz	23095	16QAM	1	5	Low	18.94	19.99	PASS
Band12	1.4MHz	23095	16QAM	6	0	Low	17.99	19.04	PASS
Band12	1.4MHz	23173	QPSK	1	0	High	20.11	21.16	PASS
Band12	1.4MHz	23173	QPSK	1	5	High	19.95	21	PASS
Band12	1.4MHz	23173	QPSK	6	0	High	17.76	18.81	PASS
Band12	1.4MHz	23173	16QAM	1	0	High	18.97	20.02	PASS
Band12	1.4MHz	23173	16QAM	1	5	High	18.92	19.97	PASS
Band12	1.4MHz	23173	16QAM	6	0	High	17.76	18.81	PASS
Band12	3MHz	23025	QPSK	1	0	Low	20.82	21.87	PASS
Band12	3MHz	23025	QPSK	1	5	Low	20.58	21.63	PASS
Band12	3MHz	23025	QPSK	6	0	Low	18.45	19.5	PASS

Band12	3MHz	23025	16QAM	1	0	Low	19.48	20.53	PASS
Band12	3MHz	23025	16QAM	1	5	Low	19.4	20.45	PASS
Band12	3MHz	23025	16QAM	6	0	Low	18.46	19.51	PASS
Band12	3MHz	23095	QPSK	1	0	Low	20.49	21.54	PASS
Band12	3MHz	23095	QPSK	1	5	Low	20.35	21.4	PASS
Band12	3MHz	23095	QPSK	6	0	Low	18.02	19.07	PASS
Band12	3MHz	23095	16QAM	1	0	Low	19.12	20.17	PASS
Band12	3MHz	23095	16QAM	1	5	Low	19.01	20.06	PASS
Band12	3MHz	23095	16QAM	6	0	Low	18.03	19.08	PASS
Band12	3MHz	23165	QPSK	1	0	High	20.15	21.2	PASS
Band12	3MHz	23165	QPSK	1	5	High	20.01	21.06	PASS
Band12	3MHz	23165	QPSK	6	0	High	17.81	18.86	PASS
Band12	3MHz	23165	16QAM	1	0	High	18.88	19.93	PASS
Band12	3MHz	23165	16QAM	1	5	High	18.76	19.81	PASS
Band12	3MHz	23165	16QAM	6	0	High	17.82	18.87	PASS
Band12	5MHz	23035	QPSK	1	0	Low	20.75	21.8	PASS
Band12	5MHz	23035	QPSK	1	5	Low	20.73	21.78	PASS
Band12	5MHz	23035	QPSK	6	0	Low	19.48	20.53	PASS
Band12	5MHz	23035	16QAM	1	0	Low	20.98	22.03	PASS
Band12	5MHz	23035	16QAM	1	5	Low	20.94	21.99	PASS
Band12	5MHz	23035	16QAM	6	0	Low	19.49	20.54	PASS
Band12	5MHz	23095	QPSK	1	0	Low	20.54	21.59	PASS
Band12	5MHz	23095	QPSK	1	5	Low	20.47	21.52	PASS
Band12	5MHz	23095	QPSK	6	0	Low	19.15	20.2	PASS
Band12	5MHz	23095	16QAM	1	0	Low	20.83	21.88	PASS
Band12	5MHz	23095	16QAM	1	5	Low	20.72	21.77	PASS
Band12	5MHz	23095	16QAM	6	0	Low	19.15	20.2	PASS
Band12	5MHz	23155	QPSK	1	0	High	20.23	21.28	PASS
Band12	5MHz	23155	QPSK	1	5	High	20.11	21.16	PASS
Band12	5MHz	23155	QPSK	6	0	High	18.78	19.83	PASS
Band12	5MHz	23155	16QAM	1	0	High	20.64	21.69	PASS
Band12	5MHz	23155	16QAM	1	5	High	20.42	21.47	PASS
Band12	5MHz	23155	16QAM	6	0	High	18.81	19.86	PASS
Band12	10MHz	23060	QPSK	1	0	Low	20.76	21.81	PASS
Band12	10MHz	23060	QPSK	1	5	Low	20.58	21.63	PASS
Band12	10MHz	23060	QPSK	6	0	Low	19.38	20.43	PASS

Band12	10MHz	23060	16QAM	1	0	Low	20.99	22.04	PASS
Band12	10MHz	23060	16QAM	1	5	Low	20.85	21.9	PASS
Band12	10MHz	23060	16QAM	6	0	Low	19.39	20.44	PASS
Band12	10MHz	23095	QPSK	1	0	Low	20.64	21.69	PASS
Band12	10MHz	23095	QPSK	1	5	Low	20.48	21.53	PASS
Band12	10MHz	23095	QPSK	6	0	Low	19.05	20.1	PASS
Band12	10MHz	23095	16QAM	1	0	Low	20.86	21.91	PASS
Band12	10MHz	23095	16QAM	1	5	Low	20.65	21.7	PASS
Band12	10MHz	23095	16QAM	6	0	Low	19.06	20.11	PASS
Band12	10MHz	23130	QPSK	1	0	High	20.21	21.26	PASS
Band12	10MHz	23130	QPSK	1	5	High	20.15	21.2	PASS
Band12	10MHz	23130	QPSK	6	0	High	18.88	19.93	PASS
Band12	10MHz	23130	16QAM	1	0	High	20.52	21.57	PASS
Band12	10MHz	23130	16QAM	1	5	High	20.47	21.52	PASS
Band12	10MHz	23130	16QAM	6	0	High	18.77	19.82	PASS
Band13	5MHz	23205	QPSK	1	0	Low	20.4	21.45	PASS
Band13	5MHz	23205	QPSK	1	5	Low	20.41	21.46	PASS
Band13	5MHz	23205	QPSK	6	0	Low	18.92	19.97	PASS
Band13	5MHz	23205	16QAM	1	0	Low	20.66	21.71	PASS
Band13	5MHz	23205	16QAM	1	5	Low	20.51	21.56	PASS
Band13	5MHz	23205	16QAM	6	0	Low	18.85	19.9	PASS
Band13	5MHz	23230	QPSK	1	0	Low	20.54	21.59	PASS
Band13	5MHz	23230	QPSK	1	5	Low	20.46	21.51	PASS
Band13	5MHz	23230	QPSK	6	0	Low	18.98	20.03	PASS
Band13	5MHz	23230	16QAM	1	0	Low	20.77	21.82	PASS
Band13	5MHz	23230	16QAM	1	5	Low	20.55	21.6	PASS
Band13	5MHz	23230	16QAM	6	0	Low	18.91	19.96	PASS
Band13	5MHz	23255	QPSK	1	0	High	20.54	21.59	PASS
Band13	5MHz	23255	QPSK	1	5	High	20.54	21.59	PASS
Band13	5MHz	23255	QPSK	6	0	High	19.09	20.14	PASS
Band13	5MHz	23255	16QAM	1	0	High	20.77	21.82	PASS
Band13	5MHz	23255	16QAM	1	5	High	20.63	21.68	PASS
Band13	5MHz	23255	16QAM	6	0	High	19.01	20.06	PASS
Band13	10MHz	23230	QPSK	1	0	Low	20.65	21.7	PASS
Band13	10MHz	23230	QPSK	1	5	Low	20.46	21.51	PASS
Band13	10MHz	23230	QPSK	6	0	Low	18.96	20.01	PASS

Band13	10MHz	23230	16QAM	1	0	Low	20.55	21.6	PASS
Band13	10MHz	23230	16QAM	1	5	Low	20.55	21.6	PASS
Band13	10MHz	23230	16QAM	6	0	Low	18.88	19.93	PASS
Band25	1.4MHz	26047	QPSK	1	0	Low	20	23.2	PASS
Band25	1.4MHz	26047	QPSK	1	5	Low	19.82	23.02	PASS
Band25	1.4MHz	26047	QPSK	6	0	Low	17.69	20.89	PASS
Band25	1.4MHz	26047	16QAM	1	0	Low	18.85	22.05	PASS
Band25	1.4MHz	26047	16QAM	1	5	Low	18.73	21.93	PASS
Band25	1.4MHz	26047	16QAM	6	0	Low	17.69	20.89	PASS
Band25	1.4MHz	26365	QPSK	1	0	Low	20.14	23.34	PASS
Band25	1.4MHz	26365	QPSK	1	5	Low	19.92	23.12	PASS
Band25	1.4MHz	26365	QPSK	6	0	Low	17.77	20.97	PASS
Band25	1.4MHz	26365	16QAM	1	0	Low	18.93	22.13	PASS
Band25	1.4MHz	26365	16QAM	1	5	Low	18.73	21.93	PASS
Band25	1.4MHz	26365	16QAM	6	0	Low	17.78	20.98	PASS
Band25	1.4MHz	26683	QPSK	1	0	High	20.44	23.64	PASS
Band25	1.4MHz	26683	QPSK	1	5	High	20.31	23.51	PASS
Band25	1.4MHz	26683	QPSK	6	0	High	18	21.2	PASS
Band25	1.4MHz	26683	16QAM	1	0	High	19.33	22.53	PASS
Band25	1.4MHz	26683	16QAM	1	5	High	19.15	22.35	PASS
Band25	1.4MHz	26683	16QAM	6	0	High	18.1	21.3	PASS
Band25	3MHz	26055	QPSK	1	0	Low	19.96	23.16	PASS
Band25	3MHz	26055	QPSK	1	5	Low	19.95	23.15	PASS
Band25	3MHz	26055	QPSK	6	0	Low	17.62	20.82	PASS
Band25	3MHz	26055	16QAM	1	0	Low	18.87	22.07	PASS
Band25	3MHz	26055	16QAM	1	5	Low	18.7	21.9	PASS
Band25	3MHz	26055	16QAM	6	0	Low	17.72	20.92	PASS
Band25	3MHz	26365	QPSK	1	0	Low	20.24	23.44	PASS
Band25	3MHz	26365	QPSK	1	5	Low	19.94	23.14	PASS
Band25	3MHz	26365	QPSK	6	0	Low	17.81	21.01	PASS
Band25	3MHz	26365	16QAM	1	0	Low	18.95	22.15	PASS
Band25	3MHz	26365	16QAM	1	5	Low	18.85	22.05	PASS
Band25	3MHz	26365	16QAM	6	0	Low	17.92	21.12	PASS
Band25	3MHz	26675	QPSK	1	0	High	20.39	23.59	PASS
Band25	3MHz	26675	QPSK	1	5	High	20.36	23.56	PASS
Band25	3MHz	26675	QPSK	6	0	High	18.07	21.27	PASS

Band25	3MHz	26675	16QAM	1	0	High	19.31	22.51	PASS
Band25	3MHz	26675	16QAM	1	5	High	19.14	22.34	PASS
Band25	3MHz	26675	16QAM	6	0	High	18.05	21.25	PASS
Band25	5MHz	26065	QPSK	1	0	Low	19.89	23.09	PASS
Band25	5MHz	26065	QPSK	1	5	Low	19.86	23.06	PASS
Band25	5MHz	26065	QPSK	6	0	Low	18.65	21.85	PASS
Band25	5MHz	26065	16QAM	1	0	Low	20.14	23.34	PASS
Band25	5MHz	26065	16QAM	1	5	Low	19.99	23.19	PASS
Band25	5MHz	26065	16QAM	6	0	Low	18.65	21.85	PASS
Band25	5MHz	26365	QPSK	1	0	Low	20.1	23.3	PASS
Band25	5MHz	26365	QPSK	1	5	Low	20.07	23.27	PASS
Band25	5MHz	26365	QPSK	6	0	Low	18.73	21.93	PASS
Band25	5MHz	26365	16QAM	1	0	Low	20.32	23.52	PASS
Band25	5MHz	26365	16QAM	1	5	Low	20.19	23.39	PASS
Band25	5MHz	26365	16QAM	6	0	Low	18.74	21.94	PASS
Band25	5MHz	26665	QPSK	1	0	High	20.36	23.56	PASS
Band25	5MHz	26665	QPSK	1	5	High	20.32	23.52	PASS
Band25	5MHz	26665	QPSK	6	0	High	19.01	22.21	PASS
Band25	5MHz	26665	16QAM	1	0	High	20.66	23.86	PASS
Band25	5MHz	26665	16QAM	1	5	High	20.34	23.54	PASS
Band25	5MHz	26665	16QAM	6	0	High	19.01	22.21	PASS
Band25	10MHz	26090	QPSK	1	0	Low	20.21	23.41	PASS
Band25	10MHz	26090	QPSK	1	5	Low	19.95	23.15	PASS
Band25	10MHz	26090	QPSK	6	0	Low	18.75	21.95	PASS
Band25	10MHz	26090	16QAM	1	0	Low	20.18	23.38	PASS
Band25	10MHz	26090	16QAM	1	5	Low	20.13	23.33	PASS
Band25	10MHz	26090	16QAM	6	0	Low	18.75	21.95	PASS
Band25	10MHz	26365	QPSK	1	0	Low	19.82	23.02	PASS
Band25	10MHz	26365	QPSK	1	5	Low	19.77	22.97	PASS
Band25	10MHz	26365	QPSK	6	0	Low	18.52	21.72	PASS
Band25	10MHz	26365	16QAM	1	0	Low	19.9	23.1	PASS
Band25	10MHz	26365	16QAM	1	5	Low	19.89	23.09	PASS
Band25	10MHz	26365	16QAM	6	0	Low	18.52	21.72	PASS
Band25	10MHz	26640	QPSK	1	0	High	19.78	22.98	PASS
Band25	10MHz	26640	QPSK	1	5	High	19.67	22.87	PASS
Band25	10MHz	26640	QPSK	6	0	High	18.41	21.61	PASS

Band25	10MHz	26640	16QAM	1	0	High	20.04	23.24	PASS
Band25	10MHz	26640	16QAM	1	5	High	19.63	22.83	PASS
Band25	10MHz	26640	16QAM	6	0	High	18.41	21.61	PASS
Band25	15MHz	26115	QPSK	1	0	Low	19.97	23.17	PASS
Band25	15MHz	26115	QPSK	1	5	Low	20.03	23.23	PASS
Band25	15MHz	26115	QPSK	6	0	Low	19.83	23.03	PASS
Band25	15MHz	26115	16QAM	1	0	Low	20.3	23.5	PASS
Band25	15MHz	26115	16QAM	1	5	Low	20.06	23.26	PASS
Band25	15MHz	26115	16QAM	6	0	Low	19.88	23.08	PASS
Band25	15MHz	26365	QPSK	1	0	Low	19.7	22.9	PASS
Band25	15MHz	26365	QPSK	1	5	Low	19.69	22.89	PASS
Band25	15MHz	26365	QPSK	6	0	Low	19.52	22.72	PASS
Band25	15MHz	26365	16QAM	1	0	Low	20.1	23.3	PASS
Band25	15MHz	26365	16QAM	1	5	Low	19.76	22.96	PASS
Band25	15MHz	26365	16QAM	6	0	Low	19.62	22.82	PASS
Band25	15MHz	26615	QPSK	1	0	High	19.96	23.16	PASS
Band25	15MHz	26615	QPSK	1	5	High	19.74	22.94	PASS
Band25	15MHz	26615	QPSK	6	0	High	19.5	22.7	PASS
Band25	15MHz	26615	16QAM	1	0	High	19.94	23.14	PASS
Band25	15MHz	26615	16QAM	1	5	High	19.93	23.13	PASS
Band25	15MHz	26615	16QAM	6	0	High	19.51	22.71	PASS
Band26@90	1.4MHz	26697	QPSK	1	0	Low	20.59	21.64	PASS
Band26@90	1.4MHz	26697	QPSK	1	5	Low	20.52	21.57	PASS
Band26@90	1.4MHz	26697	QPSK	6	0	Low	18.12	19.17	PASS
Band26@90	1.4MHz	26697	16QAM	1	0	Low	19.29	20.34	PASS
Band26@90	1.4MHz	26697	16QAM	1	5	Low	19.26	20.31	PASS
Band26@90	1.4MHz	26697	16QAM	6	0	Low	18.12	19.17	PASS
Band26@90	1.4MHz	26740	QPSK	1	0	Low	20.73	21.78	PASS
Band26@90	1.4MHz	26740	QPSK	1	5	Low	20.65	21.7	PASS

Band26@9 0	1.4MHz	26740	QPSK	6	0	Low	18.27	19.32	PASS
Band26@9 0	1.4MHz	26740	16QAM	1	0	Low	19.45	20.5	PASS
Band26@9 0	1.4MHz	26740	16QAM	1	5	Low	19.25	20.3	PASS
Band26@9 0	1.4MHz	26740	16QAM	6	0	Low	18.12	19.17	PASS
Band26@9 0	1.4MHz	26783	QPSK	1	0	High	20.75	21.8	PASS
Band26@9 0	1.4MHz	26783	QPSK	1	5	High	20.66	21.71	PASS
Band26@9 0	1.4MHz	26783	QPSK	6	0	High	18.3	19.35	PASS
Band26@9 0	1.4MHz	26783	16QAM	1	0	High	19.42	20.47	PASS
Band26@9 0	1.4MHz	26783	16QAM	1	5	High	19.26	20.31	PASS
Band26@9 0	1.4MHz	26783	16QAM	6	0	High	18.2	19.25	PASS
Band26@2 2	1.4MHz	26797	QPSK	1	0	Low	20.72	21.77	PASS
Band26@2 2	1.4MHz	26797	QPSK	1	5	Low	20.55	21.6	PASS
Band26@2 2	1.4MHz	26797	QPSK	6	0	Low	18.21	19.26	PASS
Band26@2 2	1.4MHz	26797	16QAM	1	0	Low	19.34	20.39	PASS
Band26@2 2	1.4MHz	26797	16QAM	1	5	Low	19.26	20.31	PASS
Band26@2 2	1.4MHz	26797	16QAM	6	0	Low	18.2	19.25	PASS
Band26@2 2	1.4MHz	26915	QPSK	1	0	Low	20.83	21.88	PASS
Band26@2 2	1.4MHz	26915	QPSK	1	5	Low	20.72	21.77	PASS
Band26@2 2	1.4MHz	26915	QPSK	6	0	Low	18.34	19.39	PASS

2									
Band26@2 2	1.4MHz	26915	16QAM	1	0	Low	19.64	20.69	PASS
Band26@2 2	1.4MHz	26915	16QAM	1	5	Low	19.47	20.52	PASS
Band26@2 2	1.4MHz	26915	16QAM	6	0	Low	18.25	19.3	PASS
Band26@2 2	1.4MHz	27033	QPSK	1	0	High	20.78	21.83	PASS
Band26@2 2	1.4MHz	27033	QPSK	1	5	High	20.68	21.73	PASS
Band26@2 2	1.4MHz	27033	QPSK	6	0	High	18.34	19.39	PASS
Band26@2 2	1.4MHz	27033	16QAM	1	0	High	19.55	20.6	PASS
Band26@2 2	1.4MHz	27033	16QAM	1	5	High	19.46	20.51	PASS
Band26@2 2	1.4MHz	27033	16QAM	6	0	High	18.23	19.28	PASS
Band26@9 0	3MHz	26705	QPSK	1	0	Low	20.62	21.67	PASS
Band26@9 0	3MHz	26705	QPSK	1	5	Low	20.54	21.59	PASS
Band26@9 0	3MHz	26705	QPSK	6	0	Low	18.15	19.2	PASS
Band26@9 0	3MHz	26705	16QAM	1	0	Low	19.33	20.38	PASS
Band26@9 0	3MHz	26705	16QAM	1	5	Low	19.27	20.32	PASS
Band26@9 0	3MHz	26705	16QAM	6	0	Low	18.15	19.2	PASS
Band26@9 0	3MHz	26740	QPSK	1	0	Low	20.73	21.78	PASS
Band26@9 0	3MHz	26740	QPSK	1	5	Low	20.65	21.7	PASS
Band26@9 0	3MHz	26740	QPSK	6	0	Low	18.27	19.32	PASS

Band26@9 0	3MHz	26740	16QAM	1	0	Low	19.43	20.48	PASS
Band26@9 0	3MHz	26740	16QAM	1	5	Low	19.26	20.31	PASS
Band26@9 0	3MHz	26740	16QAM	6	0	Low	18.27	19.32	PASS
Band26@9 0	3MHz	26775	QPSK	1	0	High	20.75	21.8	PASS
Band26@9 0	3MHz	26775	QPSK	1	5	High	20.68	21.73	PASS
Band26@9 0	3MHz	26775	QPSK	6	0	High	18.22	19.27	PASS
Band26@9 0	3MHz	26775	16QAM	1	0	High	19.43	20.48	PASS
Band26@9 0	3MHz	26775	16QAM	1	5	High	19.35	20.4	PASS
Band26@9 0	3MHz	26775	16QAM	6	0	High	18.22	19.27	PASS
Band26@2 2	3MHz	26805	QPSK	1	0	Low	20.74	21.79	PASS
Band26@2 2	3MHz	26805	QPSK	1	5	Low	20.66	21.71	PASS
Band26@2 2	3MHz	26805	QPSK	6	0	Low	18.23	19.28	PASS
Band26@2 2	3MHz	26805	16QAM	1	0	Low	19.4	20.45	PASS
Band26@2 2	3MHz	26805	16QAM	1	5	Low	19.3	20.35	PASS
Band26@2 2	3MHz	26805	16QAM	6	0	Low	18.23	19.28	PASS
Band26@2 2	3MHz	26915	QPSK	1	0	Low	20.97	22.02	PASS
Band26@2 2	3MHz	26915	QPSK	1	5	Low	20.82	21.87	PASS
Band26@2 2	3MHz	26915	QPSK	6	0	Low	18.41	19.46	PASS
Band26@2 2	3MHz	26915	16QAM	1	0	Low	19.59	20.64	PASS

2									
Band26@2 2	3MHz	26915	16QAM	1	5	Low	19.53	20.58	PASS
Band26@2 2	3MHz	26915	16QAM	6	0	Low	18.32	19.37	PASS
Band26@2 2	3MHz	27025	QPSK	1	0	High	20.84	21.89	PASS
Band26@2 2	3MHz	27025	QPSK	1	5	High	20.75	21.8	PASS
Band26@2 2	3MHz	27025	QPSK	6	0	High	18.36	19.41	PASS
Band26@2 2	3MHz	27025	16QAM	1	0	High	19.57	20.62	PASS
Band26@2 2	3MHz	27025	16QAM	1	5	High	19.5	20.55	PASS
Band26@2 2	3MHz	27025	16QAM	6	0	High	18.28	19.33	PASS
Band26@9 0	5MHz	26715	QPSK	1	0	Low	20.59	21.64	PASS
Band26@9 0	5MHz	26715	QPSK	1	5	Low	20.42	21.47	PASS
Band26@9 0	5MHz	26715	QPSK	6	0	Low	19.18	20.23	PASS
Band26@9 0	5MHz	26715	16QAM	1	0	Low	20.8	21.85	PASS
Band26@9 0	5MHz	26715	16QAM	1	5	Low	20.45	21.5	PASS
Band26@9 0	5MHz	26715	16QAM	6	0	Low	19.18	20.23	PASS
Band26@9 0	5MHz	26740	QPSK	1	0	Low	20.65	21.7	PASS
Band26@9 0	5MHz	26740	QPSK	1	5	Low	20.64	21.69	PASS
Band26@9 0	5MHz	26740	QPSK	6	0	Low	19.24	20.29	PASS
Band26@9 0	5MHz	26740	16QAM	1	0	Low	20.8	21.85	PASS

Band26@9 0	5MHz	26740	16QAM	1	5	Low	20.74	21.79	PASS
Band26@9 0	5MHz	26740	16QAM	6	0	Low	19.17	20.22	PASS
Band26@9 0	5MHz	26785	QPSK	1	0	High	20.76	21.81	PASS
Band26@9 0	5MHz	26785	QPSK	1	5	High	20.76	21.81	PASS
Band26@9 0	5MHz	26785	QPSK	6	0	High	19.36	20.41	PASS
Band26@9 0	5MHz	26785	16QAM	1	0	High	20.98	22.03	PASS
Band26@9 0	5MHz	26785	16QAM	1	5	High	20.93	21.98	PASS
Band26@9 0	5MHz	26785	16QAM	6	0	High	19.21	20.26	PASS
Band26@2 2	5MHz	26815	QPSK	1	0	Low	20.79	21.84	PASS
Band26@2 2	5MHz	26815	QPSK	1	5	Low	20.77	21.82	PASS
Band26@2 2	5MHz	26815	QPSK	6	0	Low	19.29	20.34	PASS
Band26@2 2	5MHz	26815	16QAM	1	0	Low	20.94	21.99	PASS
Band26@2 2	5MHz	26815	16QAM	1	5	Low	20.86	21.91	PASS
Band26@2 2	5MHz	26815	16QAM	6	0	Low	19.2	20.25	PASS
Band26@2 2	5MHz	26915	QPSK	1	0	Low	20.86	21.91	PASS
Band26@2 2	5MHz	26915	QPSK	1	5	Low	20.81	21.86	PASS
Band26@2 2	5MHz	26915	QPSK	6	0	Low	19.43	20.48	PASS
Band26@2 2	5MHz	26915	16QAM	1	0	Low	21	22.05	PASS
Band26@2 2	5MHz	26915	16QAM	1	5	Low	20.98	22.03	PASS

2									
Band26@2 2	5MHz	26915	16QAM	6	0	Low	19.29	20.34	PASS
Band26@2 2	5MHz	27015	QPSK	1	0	High	20.8	21.85	PASS
Band26@2 2	5MHz	27015	QPSK	1	5	High	20.82	21.87	PASS
Band26@2 2	5MHz	27015	QPSK	6	0	High	19.44	20.49	PASS
Band26@2 2	5MHz	27015	16QAM	1	0	High	20.97	22.02	PASS
Band26@2 2	5MHz	27015	16QAM	1	5	High	20.89	21.94	PASS
Band26@2 2	5MHz	27015	16QAM	6	0	High	19.45	20.5	PASS
Band26@9 0	10MHz	26740	QPSK	1	0	Low	20.54	21.59	PASS
Band26@9 0	10MHz	26740	QPSK	1	5	Low	20.54	21.59	PASS
Band26@9 0	10MHz	26740	QPSK	6	0	Low	19.05	20.1	PASS
Band26@9 0	10MHz	26740	16QAM	1	0	Low	20.69	21.74	PASS
Band26@9 0	10MHz	26740	16QAM	1	5	Low	20.38	21.43	PASS
Band26@9 0	10MHz	26740	16QAM	6	0	Low	19.03	20.08	PASS
Band26@2 2	10MHz	26840	QPSK	1	0	Low	20.89	21.94	PASS
Band26@2 2	10MHz	26840	QPSK	1	5	Low	20.69	21.74	PASS
Band26@2 2	10MHz	26840	QPSK	6	0	Low	19.27	20.32	PASS
Band26@2 2	10MHz	26840	16QAM	1	0	Low	20.86	21.91	PASS
Band26@2 2	10MHz	26840	16QAM	1	5	Low	20.81	21.86	PASS

Band26@2 2	10MHz	26840	16QAM	6	0	Low	19.12	20.17	PASS
Band26@2 2	10MHz	26915	QPSK	1	0	Low	20.86	21.91	PASS
Band26@2 2	10MHz	26915	QPSK	1	5	Low	20.57	21.62	PASS
Band26@2 2	10MHz	26915	QPSK	6	0	Low	19.27	20.32	PASS
Band26@2 2	10MHz	26915	16QAM	1	0	Low	20.91	21.96	PASS
Band26@2 2	10MHz	26915	16QAM	1	5	Low	20.83	21.88	PASS
Band26@2 2	10MHz	26915	16QAM	6	0	Low	19.18	20.23	PASS
Band26@2 2	10MHz	26990	QPSK	1	0	High	20.78	21.83	PASS
Band26@2 2	10MHz	26990	QPSK	1	5	High	20.77	21.82	PASS
Band26@2 2	10MHz	26990	QPSK	6	0	High	19.48	20.53	PASS
Band26@2 2	10MHz	26990	16QAM	1	0	High	20.96	22.01	PASS
Band26@2 2	10MHz	26990	16QAM	1	5	High	20.83	21.88	PASS
Band26@2 2	10MHz	26990	16QAM	6	0	High	19.41	20.46	PASS
Band26@2 2	15MHz	26865	QPSK	1	0	Low	20.78	21.83	PASS
Band26@2 2	15MHz	26865	QPSK	1	5	Low	20.69	21.74	PASS
Band26@2 2	15MHz	26865	QPSK	6	0	Low	20.49	21.54	PASS
Band26@2 2	15MHz	26865	16QAM	1	0	Low	20.95	22	PASS
Band26@2 2	15MHz	26865	16QAM	1	5	Low	20.84	21.89	PASS
Band26@2 2	15MHz	26865	16QAM	6	0	Low	20.44	21.49	PASS

2									
Band26@2 2	15MHz	26915	QPSK	1	0	Low	20.8	21.85	PASS
Band26@2 2	15MHz	26915	QPSK	1	5	Low	20.7	21.75	PASS
Band26@2 2	15MHz	26915	QPSK	6	0	Low	20.38	21.43	PASS
Band26@2 2	15MHz	26915	16QAM	1	0	Low	20.97	22.02	PASS
Band26@2 2	15MHz	26915	16QAM	1	5	Low	20.85	21.9	PASS
Band26@2 2	15MHz	26915	16QAM	6	0	Low	20.34	21.39	PASS
Band26@2 2	15MHz	26965	QPSK	1	0	High	20.96	22.01	PASS
Band26@2 2	15MHz	26965	QPSK	1	5	High	20.76	21.81	PASS
Band26@2 2	15MHz	26965	QPSK	6	0	High	20.53	21.58	PASS
Band26@2 2	15MHz	26965	16QAM	1	0	High	20.92	21.97	PASS
Band26@2 2	15MHz	26965	16QAM	1	5	High	20.84	21.89	PASS
Band26@2 2	15MHz	26965	16QAM	6	0	High	20.39	21.44	PASS
Band66	1.4MHz	131979	QPSK	1	0	Low	20.01	23.21	PASS
Band66	1.4MHz	131979	QPSK	1	5	Low	19.88	23.08	PASS
Band66	1.4MHz	131979	QPSK	6	0	Low	17.84	21.04	PASS
Band66	1.4MHz	131979	16QAM	1	0	Low	18.92	22.12	PASS
Band66	1.4MHz	131979	16QAM	1	5	Low	18.66	21.86	PASS
Band66	1.4MHz	131979	16QAM	6	0	Low	17.84	21.04	PASS
Band66	1.4MHz	132322	QPSK	1	0	Low	19.81	23.01	PASS
Band66	1.4MHz	132322	QPSK	1	5	Low	19.67	22.87	PASS
Band66	1.4MHz	132322	QPSK	6	0	Low	17.61	20.81	PASS
Band66	1.4MHz	132322	16QAM	1	0	Low	18.72	21.92	PASS
Band66	1.4MHz	132322	16QAM	1	5	Low	18.56	21.76	PASS
Band66	1.4MHz	132322	16QAM	6	0	Low	17.52	20.72	PASS

Band66	1.4MHz	132665	QPSK	1	0	High	20.31	23.51	PASS
Band66	1.4MHz	132665	QPSK	1	5	High	20.13	23.33	PASS
Band66	1.4MHz	132665	QPSK	6	0	High	17.74	20.94	PASS
Band66	1.4MHz	132665	16QAM	1	0	High	18.95	22.15	PASS
Band66	1.4MHz	132665	16QAM	1	5	High	18.92	22.12	PASS
Band66	1.4MHz	132665	16QAM	6	0	High	17.74	20.94	PASS
Band66	3MHz	131987	QPSK	1	0	Low	20.14	23.34	PASS
Band66	3MHz	131987	QPSK	1	5	Low	19.91	23.11	PASS
Band66	3MHz	131987	QPSK	6	0	Low	17.72	20.92	PASS
Band66	3MHz	131987	16QAM	1	0	Low	19.05	22.25	PASS
Band66	3MHz	131987	16QAM	1	5	Low	18.88	22.08	PASS
Band66	3MHz	131987	16QAM	6	0	Low	17.72	20.92	PASS
Band66	3MHz	132322	QPSK	1	0	Low	19.86	23.06	PASS
Band66	3MHz	132322	QPSK	1	5	Low	19.71	22.91	PASS
Band66	3MHz	132322	QPSK	6	0	Low	17.68	20.88	PASS
Band66	3MHz	132322	16QAM	1	0	Low	18.74	21.94	PASS
Band66	3MHz	132322	16QAM	1	5	Low	18.73	21.93	PASS
Band66	3MHz	132322	16QAM	6	0	Low	17.58	20.78	PASS
Band66	3MHz	132657	QPSK	1	0	High	20.43	23.63	PASS
Band66	3MHz	132657	QPSK	1	5	High	20.21	23.41	PASS
Band66	3MHz	132657	QPSK	6	0	High	17.85	21.05	PASS
Band66	3MHz	132657	16QAM	1	0	High	19.01	22.21	PASS
Band66	3MHz	132657	16QAM	1	5	High	18.93	22.13	PASS
Band66	3MHz	132657	16QAM	6	0	High	17.86	21.06	PASS
Band66	5MHz	131997	QPSK	1	0	Low	20.16	23.36	PASS
Band66	5MHz	131997	QPSK	1	5	Low	20.08	23.28	PASS
Band66	5MHz	131997	QPSK	6	0	Low	18.72	21.92	PASS
Band66	5MHz	131997	16QAM	1	0	Low	20.29	23.49	PASS
Band66	5MHz	131997	16QAM	1	5	Low	20.04	23.24	PASS
Band66	5MHz	131997	16QAM	6	0	Low	18.77	21.97	PASS
Band66	5MHz	132322	QPSK	1	0	Low	20.03	23.23	PASS
Band66	5MHz	132322	QPSK	1	5	Low	19.72	22.92	PASS
Band66	5MHz	132322	QPSK	6	0	Low	18.46	21.66	PASS
Band66	5MHz	132322	16QAM	1	0	Low	19.82	23.02	PASS
Band66	5MHz	132322	16QAM	1	5	Low	19.6	22.8	PASS
Band66	5MHz	132322	16QAM	6	0	Low	18.55	21.75	PASS

Band66	5MHz	132647	QPSK	1	0	High	20.31	23.51	PASS
Band66	5MHz	132647	QPSK	1	5	High	20.26	23.46	PASS
Band66	5MHz	132647	QPSK	6	0	High	18.84	22.04	PASS
Band66	5MHz	132647	16QAM	1	0	High	20.46	23.66	PASS
Band66	5MHz	132647	16QAM	1	5	High	20.36	23.56	PASS
Band66	5MHz	132647	16QAM	6	0	High	18.85	22.05	PASS
Band66	10MHz	132022	QPSK	1	0	Low	20.15	23.35	PASS
Band66	10MHz	132022	QPSK	1	5	Low	19.95	23.15	PASS
Band66	10MHz	132022	QPSK	6	0	Low	18.58	21.78	PASS
Band66	10MHz	132022	16QAM	1	0	Low	20.06	23.26	PASS
Band66	10MHz	132022	16QAM	1	5	Low	19.89	23.09	PASS
Band66	10MHz	132022	16QAM	6	0	Low	18.68	21.88	PASS
Band66	10MHz	132322	QPSK	1	0	Low	19.98	23.18	PASS
Band66	10MHz	132322	QPSK	1	5	Low	19.73	22.93	PASS
Band66	10MHz	132322	QPSK	6	0	Low	18.37	21.57	PASS
Band66	10MHz	132322	16QAM	1	0	Low	19.71	22.91	PASS
Band66	10MHz	132322	16QAM	1	5	Low	19.68	22.88	PASS
Band66	10MHz	132322	16QAM	6	0	Low	18.46	21.66	PASS
Band66	10MHz	132622	QPSK	1	0	High	20.33	23.53	PASS
Band66	10MHz	132622	QPSK	1	5	High	20.29	23.49	PASS
Band66	10MHz	132622	QPSK	6	0	High	18.88	22.08	PASS
Band66	10MHz	132622	16QAM	1	0	High	20.44	23.64	PASS
Band66	10MHz	132622	16QAM	1	5	High	20.37	23.57	PASS
Band66	10MHz	132622	16QAM	6	0	High	18.89	22.09	PASS
Band66	15MHz	132047	QPSK	1	0	Low	20.13	23.33	PASS
Band66	15MHz	132047	QPSK	1	5	Low	19.96	23.16	PASS
Band66	15MHz	132047	QPSK	6	0	Low	19.77	22.97	PASS
Band66	15MHz	132047	16QAM	1	0	Low	20.16	23.36	PASS
Band66	15MHz	132047	16QAM	1	5	Low	19.96	23.16	PASS
Band66	15MHz	132047	16QAM	6	0	Low	19.74	22.94	PASS
Band66	15MHz	132322	QPSK	1	0	Low	19.82	23.02	PASS
Band66	15MHz	132322	QPSK	1	5	Low	19.73	22.93	PASS
Band66	15MHz	132322	QPSK	6	0	Low	19.49	22.69	PASS
Band66	15MHz	132322	16QAM	1	0	Low	19.86	23.06	PASS
Band66	15MHz	132322	16QAM	1	5	Low	19.57	22.77	PASS
Band66	15MHz	132322	16QAM	6	0	Low	19.49	22.69	PASS

Band66	15MHz	132597	QPSK	1	0	High	20.42	23.62	PASS
Band66	15MHz	132597	QPSK	1	5	High	20.27	23.47	PASS
Band66	15MHz	132597	QPSK	6	0	High	19.89	23.09	PASS
Band66	15MHz	132597	16QAM	1	0	High	20.41	23.61	PASS
Band66	15MHz	132597	16QAM	1	5	High	20.38	23.58	PASS
Band66	15MHz	132597	16QAM	6	0	High	19.89	23.09	PASS
Band66	20MHz	132072	QPSK	1	0	Low	20.09	23.29	PASS
Band66	20MHz	132072	QPSK	1	5	Low	19.98	23.18	PASS
Band66	20MHz	132072	QPSK	6	0	Low	19.79	22.99	PASS
Band66	20MHz	132072	16QAM	1	0	Low	20.15	23.35	PASS
Band66	20MHz	132072	16QAM	1	5	Low	20	23.2	PASS
Band66	20MHz	132072	16QAM	6	0	Low	19.83	23.03	PASS
Band66	20MHz	132322	QPSK	1	0	Low	19.72	22.92	PASS
Band66	20MHz	132322	QPSK	1	5	Low	19.68	22.88	PASS
Band66	20MHz	132322	QPSK	6	0	Low	19.49	22.69	PASS
Band66	20MHz	132322	16QAM	1	0	Low	19.91	23.11	PASS
Band66	20MHz	132322	16QAM	1	5	Low	19.63	22.83	PASS
Band66	20MHz	132322	16QAM	6	0	Low	19.51	22.71	PASS
Band66	20MHz	132572	QPSK	1	0	High	20.3	23.5	PASS
Band66	20MHz	132572	QPSK	1	5	High	20.26	23.46	PASS
Band66	20MHz	132572	QPSK	6	0	High	19.89	23.09	PASS
Band66	20MHz	132572	16QAM	1	0	High	20.47	23.67	PASS
Band66	20MHz	132572	16QAM	1	5	High	20.36	23.56	PASS
Band66	20MHz	132572	16QAM	6	0	High	19.89	23.09	PASS
Band85	5MHz	134027	QPSK	1	0	Low	20.3	21.35	PASS
Band85	5MHz	134027	QPSK	1	5	Low	20.41	21.46	PASS
Band85	5MHz	134027	QPSK	6	0	Low	18.99	20.04	PASS
Band85	5MHz	134027	16QAM	1	0	Low	20.59	21.64	PASS
Band85	5MHz	134027	16QAM	1	5	Low	20.49	21.54	PASS
Band85	5MHz	134027	16QAM	6	0	Low	18.99	20.04	PASS
Band85	5MHz	134092	QPSK	1	0	Low	20.56	21.61	PASS
Band85	5MHz	134092	QPSK	1	5	Low	20.57	21.62	PASS
Band85	5MHz	134092	QPSK	6	0	Low	19.24	20.29	PASS
Band85	5MHz	134092	16QAM	1	0	Low	20.78	21.83	PASS
Band85	5MHz	134092	16QAM	1	5	Low	20.74	21.79	PASS
Band85	5MHz	134092	16QAM	6	0	Low	19.18	20.23	PASS

Band85	5MHz	134157	QPSK	1	0	High	20.52	21.57	PASS
Band85	5MHz	134157	QPSK	1	5	High	20.56	21.61	PASS
Band85	5MHz	134157	QPSK	6	0	High	19.39	20.44	PASS
Band85	5MHz	134157	16QAM	1	0	High	20.91	21.96	PASS
Band85	5MHz	134157	16QAM	1	5	High	20.85	21.9	PASS
Band85	5MHz	134157	16QAM	6	0	High	19.4	20.45	PASS
Band85	10MHz	134052	QPSK	1	0	Low	20.43	21.48	PASS
Band85	10MHz	134052	QPSK	1	5	Low	20.36	21.41	PASS
Band85	10MHz	134052	QPSK	6	0	Low	19.02	20.07	PASS
Band85	10MHz	134052	16QAM	1	0	Low	20.59	21.64	PASS
Band85	10MHz	134052	16QAM	1	5	Low	20.55	21.6	PASS
Band85	10MHz	134052	16QAM	6	0	Low	19.02	20.07	PASS
Band85	10MHz	134092	QPSK	1	0	Low	20.52	21.57	PASS
Band85	10MHz	134092	QPSK	1	5	Low	20.45	21.5	PASS
Band85	10MHz	134092	QPSK	6	0	Low	19.09	20.14	PASS
Band85	10MHz	134092	16QAM	1	0	Low	20.67	21.72	PASS
Band85	10MHz	134092	16QAM	1	5	Low	20.68	21.73	PASS
Band85	10MHz	134092	16QAM	6	0	Low	19.03	20.08	PASS
Band85	10MHz	134132	QPSK	1	0	High	20.52	21.57	PASS
Band85	10MHz	134132	QPSK	1	5	High	20.57	21.62	PASS
Band85	10MHz	134132	QPSK	6	0	High	19.4	20.45	PASS
Band85	10MHz	134132	16QAM	1	0	High	20.92	21.97	PASS
Band85	10MHz	134132	16QAM	1	5	High	20.9	21.95	PASS
Band85	10MHz	134132	16QAM	6	0	High	19.32	20.37	PASS

Band25	20MHz	26140	QPSK	1	0	Low	19.7	22.9	PASS
Band25	20MHz	26140	QPSK	1	5	Low	19.58	22.78	PASS
Band25	20MHz	26140	QPSK	6	0	Low	19.45	22.65	PASS
Band25	20MHz	26365	QPSK	1	0	Low	19.89	23.09	PASS
Band25	20MHz	26365	QPSK	1	5	Low	19.77	22.97	PASS
Band25	20MHz	26365	QPSK	6	0	Low	19.68	22.88	PASS
Band25	20MHz	26590	QPSK	1	0	High	20.61	23.81	PASS
Band25	20MHz	26590	QPSK	1	5	High	20.15	23.35	PASS
Band25	20MHz	26590	QPSK	6	0	High	20	23.2	PASS
Band25	20MHz	26140	16QAM	1	0	Low	20.12	23.32	PASS
Band25	20MHz	26140	16QAM	1	5	Low	19.82	23.02	PASS

Band25	20MHz	26140	16QAM	6	0	Low	19.5	22.7	PASS
Band25	20MHz	26365	16QAM	1	0	Low	20.05	23.25	PASS
Band25	20MHz	26365	16QAM	1	5	Low	20.06	23.26	PASS
Band25	20MHz	26365	16QAM	6	0	Low	19.69	22.89	PASS
Band25	20MHz	26590	16QAM	1	0	High	19.99	23.19	PASS
Band25	20MHz	26590	16QAM	1	5	High	19.65	22.85	PASS
Band25	20MHz	26590	16QAM	6	0	High	20.05	23.25	PASS

Band	Bandwidth	Modulation	Channel	RB Size	RB	NB Index	Result (dBm)	E.R.P./ E.I.R.P. (dBm)	Verdict
Band25	20MHz	26140	QPSK	1	0	Low	19.7	22.9	PASS
Band25	20MHz	26140	QPSK	1	5	Low	19.58	22.78	PASS
Band25	20MHz	26140	QPSK	6	0	Low	19.45	22.65	PASS
Band25	20MHz	26365	QPSK	1	0	Low	19.89	23.09	PASS
Band25	20MHz	26365	QPSK	1	5	Low	19.77	22.97	PASS
Band25	20MHz	26365	QPSK	6	0	Low	19.68	22.88	PASS
Band25	20MHz	26590	QPSK	1	0	High	20.61	23.81	PASS
Band25	20MHz	26590	QPSK	1	5	High	20.15	23.35	PASS
Band25	20MHz	26590	QPSK	6	0	High	20	23.2	PASS
Band25	20MHz	26140	16QAM	1	0	Low	20.12	23.32	PASS
Band25	20MHz	26140	16QAM	1	5	Low	19.82	23.02	PASS
Band25	20MHz	26140	16QAM	6	0	Low	19.5	22.7	PASS
Band25	20MHz	26365	16QAM	1	0	Low	20.05	23.25	PASS
Band25	20MHz	26365	16QAM	1	5	Low	20.06	23.26	PASS
Band25	20MHz	26365	16QAM	6	0	Low	19.69	22.89	PASS
Band25	20MHz	26590	16QAM	1	0	High	19.99	23.19	PASS
Band25	20MHz	26590	16QAM	1	5	High	19.65	22.85	PASS
Band25	20MHz	26590	16QAM	6	0	High	20.05	23.25	PASS

4.3 Peak-to-Average Ratio

4.3.1 Description of the PAR Measurement

Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of the peak signal amplitude exceeding the average power level. Most contemporary measurement instrumentation include the capability to produce CCDF curves for an input signal provided that the instrument's resolution bandwidth can be set wide enough to accommodate the entire input signal bandwidth.

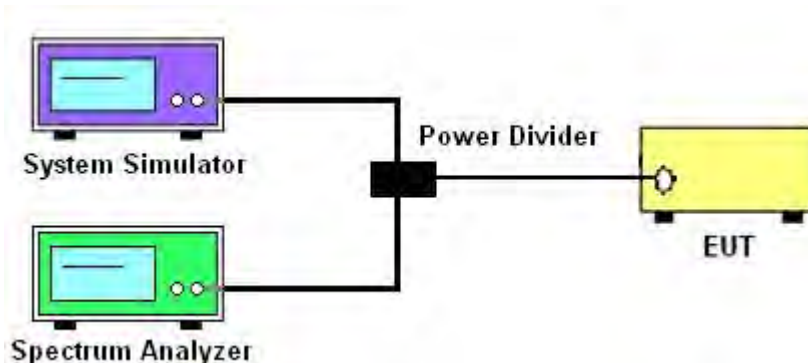
4.3.2 Limit

In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

4.3.3 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2.3.4 (CCDF)
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. Set EUT to transmit at maximum output power.
4. The signal analyzer's CCDF measurement profile is enabled
5. Frequency = carrier center frequency
6. Measurement BW > Emission bandwidth of signal
7. When the duty cycle is less than 98%, then signal gating will be implemented on the spectrum analyzer by triggering from the system simulator.
8. Set the CCDF (Complementary Cumulative Distribution Function) option of the spectrum analyzer. Record the maximum PAPR level associated with a probability of 0.1%.

4.3.4 Test Setup



4.3.5 Test Results

GSM

Band	Channel	Result(dB)	Limit(dB)	Verdict
GPRS850	128	9.71	13	PASS
GPRS850	190	9.74	13	PASS
GPRS850	251	9.71	13	PASS
EGPRS850	128	12.61	13	PASS
EGPRS850	190	12.43	13	PASS
EGPRS850	251	12.67	13	PASS
GPRS1900	512	2.75	13	PASS
GPRS1900	661	2.77	13	PASS
GPRS1900	810	2.79	13	PASS
EGPRS1900	512	5.87	13	PASS
EGPRS1900	661	6.01	13	PASS
EGPRS1900	810	6.01	13	PASS

LTE Cat M1

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Result (dB)	Limit (dB)	Verdict
Band2	1.4MHz	18607	QPSK	1	0	Low	11.25	<=13	PASS
Band2	1.4MHz	18607	QPSK	6	0	Low	11.54	<=13	PASS
Band2	1.4MHz	18607	16QAM	1	0	Low	11.01	<=13	PASS
Band2	1.4MHz	18607	16QAM	6	0	Low	9.86	<=13	PASS
Band2	1.4MHz	18900	QPSK	1	0	Low	9.42	<=13	PASS
Band2	1.4MHz	18900	QPSK	6	0	Low	10.32	<=13	PASS
Band2	1.4MHz	18900	16QAM	1	0	Low	11.01	<=13	PASS
Band2	1.4MHz	18900	16QAM	6	0	Low	9.01	<=13	PASS
Band2	1.4MHz	19193	QPSK	1	0	High	7.65	<=13	PASS
Band2	1.4MHz	19193	QPSK	6	0	High	11.65	<=13	PASS
Band2	1.4MHz	19193	16QAM	1	0	High	10.29	<=13	PASS
Band2	1.4MHz	19193	16QAM	6	0	High	11.65	<=13	PASS
Band2	3MHz	18615	QPSK	1	0	Low	8.55	<=13	PASS
Band2	3MHz	18615	QPSK	6	0	Low	8.46	<=13	PASS
Band2	3MHz	18615	16QAM	1	0	Low	8.41	<=13	PASS
Band2	3MHz	18615	16QAM	6	0	Low	8.49	<=13	PASS
Band2	3MHz	18900	QPSK	1	0	Low	3.51	<=13	PASS
Band2	3MHz	18900	QPSK	6	0	Low	11.59	<=13	PASS
Band2	3MHz	18900	16QAM	1	0	Low	11.39	<=13	PASS

Band2	3MHz	18900	16QAM	6	0	Low	11.59	<=13	PASS
Band2	3MHz	19185	QPSK	1	0	High	9.16	<=13	PASS
Band2	3MHz	19185	QPSK	6	0	High	9.88	<=13	PASS
Band2	3MHz	19185	16QAM	1	0	High	11.28	<=13	PASS
Band2	3MHz	19185	16QAM	6	0	High	11.19	<=13	PASS
Band2	5MHz	18625	QPSK	1	0	Low	8.49	<=13	PASS
Band2	5MHz	18625	QPSK	6	0	Low	8.96	<=13	PASS
Band2	5MHz	18625	16QAM	1	0	Low	7.8	<=13	PASS
Band2	5MHz	18625	16QAM	6	0	Low	8.93	<=13	PASS
Band2	5MHz	18900	QPSK	1	0	Low	8.06	<=13	PASS
Band2	5MHz	18900	QPSK	6	0	Low	10	<=13	PASS
Band2	5MHz	18900	16QAM	1	0	Low	7.91	<=13	PASS
Band2	5MHz	18900	16QAM	6	0	Low	8.58	<=13	PASS
Band2	5MHz	19175	QPSK	1	0	High	7.71	<=13	PASS
Band2	5MHz	19175	QPSK	6	0	High	9.91	<=13	PASS
Band2	5MHz	19175	16QAM	1	0	High	8.9	<=13	PASS
Band2	5MHz	19175	16QAM	6	0	High	8.72	<=13	PASS
Band2	10MHz	18650	QPSK	1	0	Low	4.93	<=13	PASS
Band2	10MHz	18650	QPSK	6	0	Low	9.74	<=13	PASS
Band2	10MHz	18650	16QAM	1	0	Low	8.84	<=13	PASS
Band2	10MHz	18650	16QAM	6	0	Low	10.72	<=13	PASS
Band2	10MHz	18900	QPSK	1	0	Low	8.52	<=13	PASS
Band2	10MHz	18900	QPSK	6	0	Low	10.87	<=13	PASS
Band2	10MHz	18900	16QAM	1	0	Low	10.9	<=13	PASS
Band2	10MHz	18900	16QAM	6	0	Low	8.43	<=13	PASS
Band2	10MHz	19150	QPSK	1	0	High	7.71	<=13	PASS
Band2	10MHz	19150	QPSK	6	0	High	8.49	<=13	PASS
Band2	10MHz	19150	16QAM	1	0	High	8.67	<=13	PASS
Band2	10MHz	19150	16QAM	6	0	High	10.96	<=13	PASS
Band2	15MHz	18675	QPSK	1	0	Low	8.35	<=13	PASS
Band2	15MHz	18675	QPSK	6	0	Low	7.83	<=13	PASS
Band2	15MHz	18675	16QAM	1	0	Low	9.57	<=13	PASS
Band2	15MHz	18675	16QAM	6	0	Low	8.96	<=13	PASS
Band2	15MHz	18900	QPSK	1	0	Low	10.64	<=13	PASS
Band2	15MHz	18900	QPSK	6	0	Low	8	<=13	PASS
Band2	15MHz	18900	16QAM	1	0	Low	8.29	<=13	PASS

Band2	15MHz	18900	16QAM	6	0	Low	8.52	<=13	PASS
Band2	15MHz	19125	QPSK	1	0	High	10.61	<=13	PASS
Band2	15MHz	19125	QPSK	6	0	High	9.1	<=13	PASS
Band2	15MHz	19125	16QAM	1	0	High	10.7	<=13	PASS
Band2	15MHz	19125	16QAM	6	0	High	9.33	<=13	PASS
Band2	20MHz	18700	QPSK	1	0	Low	6.38	<=13	PASS
Band2	20MHz	18700	QPSK	6	0	Low	10.03	<=13	PASS
Band2	20MHz	18700	16QAM	1	0	Low	8.58	<=13	PASS
Band2	20MHz	18700	16QAM	6	0	Low	7.77	<=13	PASS
Band2	20MHz	18900	QPSK	1	0	Low	7.68	<=13	PASS
Band2	20MHz	18900	QPSK	6	0	Low	9.97	<=13	PASS
Band2	20MHz	18900	16QAM	1	0	Low	8.96	<=13	PASS
Band2	20MHz	18900	16QAM	6	0	Low	7.88	<=13	PASS
Band2	20MHz	19100	QPSK	1	0	High	7.71	<=13	PASS
Band2	20MHz	19100	QPSK	6	0	High	10.84	<=13	PASS
Band2	20MHz	19100	16QAM	1	0	High	8.58	<=13	PASS
Band2	20MHz	19100	16QAM	6	0	High	10.84	<=13	PASS
Band4	1.4MHz	19957	QPSK	1	0	Low	3.39	<=13	PASS
Band4	1.4MHz	19957	QPSK	6	0	Low	8.64	<=13	PASS
Band4	1.4MHz	19957	16QAM	1	0	Low	9.39	<=13	PASS
Band4	1.4MHz	19957	16QAM	6	0	Low	8.64	<=13	PASS
Band4	1.4MHz	20175	QPSK	1	0	Low	9.28	<=13	PASS
Band4	1.4MHz	20175	QPSK	6	0	Low	10.87	<=13	PASS
Band4	1.4MHz	20175	16QAM	1	0	Low	8.52	<=13	PASS
Band4	1.4MHz	20175	16QAM	6	0	Low	10.32	<=13	PASS
Band4	1.4MHz	20393	QPSK	1	0	High	10.2	<=13	PASS
Band4	1.4MHz	20393	QPSK	6	0	High	9.86	<=13	PASS
Band4	1.4MHz	20393	16QAM	1	0	High	10.41	<=13	PASS
Band4	1.4MHz	20393	16QAM	6	0	High	10.14	<=13	PASS
Band4	3MHz	19965	QPSK	1	0	Low	8.46	<=13	PASS
Band4	3MHz	19965	QPSK	6	0	Low	10.43	<=13	PASS
Band4	3MHz	19965	16QAM	1	0	Low	8.49	<=13	PASS
Band4	3MHz	19965	16QAM	6	0	Low	9.68	<=13	PASS
Band4	3MHz	20175	QPSK	1	0	Low	8.9	<=13	PASS
Band4	3MHz	20175	QPSK	6	0	Low	8.7	<=13	PASS
Band4	3MHz	20175	16QAM	1	0	Low	8.96	<=13	PASS

Band4	3MHz	20175	16QAM	6	0	Low	8.67	<=13	PASS
Band4	3MHz	20385	QPSK	1	0	High	10.35	<=13	PASS
Band4	3MHz	20385	QPSK	6	0	High	8.75	<=13	PASS
Band4	3MHz	20385	16QAM	1	0	High	8.61	<=13	PASS
Band4	3MHz	20385	16QAM	6	0	High	8.9	<=13	PASS
Band4	5MHz	19975	QPSK	1	0	Low	8.43	<=13	PASS
Band4	5MHz	19975	QPSK	6	0	Low	8.9	<=13	PASS
Band4	5MHz	19975	16QAM	1	0	Low	10.06	<=13	PASS
Band4	5MHz	19975	16QAM	6	0	Low	8.38	<=13	PASS
Band4	5MHz	20175	QPSK	1	0	Low	8.29	<=13	PASS
Band4	5MHz	20175	QPSK	6	0	Low	9.54	<=13	PASS
Band4	5MHz	20175	16QAM	1	0	Low	9.01	<=13	PASS
Band4	5MHz	20175	16QAM	6	0	Low	8.55	<=13	PASS
Band4	5MHz	20375	QPSK	1	0	High	9.94	<=13	PASS
Band4	5MHz	20375	QPSK	6	0	High	11.22	<=13	PASS
Band4	5MHz	20375	16QAM	1	0	High	9.57	<=13	PASS
Band4	5MHz	20375	16QAM	6	0	High	8.64	<=13	PASS
Band4	10MHz	20000	QPSK	1	0	Low	8.44	<=13	PASS
Band4	10MHz	20000	QPSK	6	0	Low	8.41	<=13	PASS
Band4	10MHz	20000	16QAM	1	0	Low	8.46	<=13	PASS
Band4	10MHz	20000	16QAM	6	0	Low	8.45	<=13	PASS
Band4	10MHz	20175	QPSK	1	0	Low	8.48	<=13	PASS
Band4	10MHz	20175	QPSK	6	0	Low	8.41	<=13	PASS
Band4	10MHz	20175	16QAM	1	0	Low	8.43	<=13	PASS
Band4	10MHz	20175	16QAM	6	0	Low	8.44	<=13	PASS
Band4	10MHz	20350	QPSK	1	0	High	8.43	<=13	PASS
Band4	10MHz	20350	QPSK	6	0	High	8.43	<=13	PASS
Band4	10MHz	20350	16QAM	1	0	High	8.41	<=13	PASS
Band4	10MHz	20350	16QAM	6	0	High	8.42	<=13	PASS
Band4	15MHz	20025	QPSK	1	0	Low	8.42	<=13	PASS
Band4	15MHz	20025	QPSK	6	0	Low	8.45	<=13	PASS
Band4	15MHz	20025	16QAM	1	0	Low	8.4	<=13	PASS
Band4	15MHz	20025	16QAM	6	0	Low	8.41	<=13	PASS
Band4	15MHz	20175	QPSK	1	0	Low	8.43	<=13	PASS
Band4	15MHz	20175	QPSK	6	0	Low	8.42	<=13	PASS
Band4	15MHz	20175	16QAM	1	0	Low	8.41	<=13	PASS

Band4	15MHz	20175	16QAM	6	0	Low	8.43	<=13	PASS
Band4	15MHz	20325	QPSK	1	0	High	8.42	<=13	PASS
Band4	15MHz	20325	QPSK	6	0	High	8.45	<=13	PASS
Band4	15MHz	20325	16QAM	1	0	High	8.43	<=13	PASS
Band4	15MHz	20325	16QAM	6	0	High	8.45	<=13	PASS
Band4	20MHz	20050	QPSK	1	0	Low	8.44	<=13	PASS
Band4	20MHz	20050	QPSK	6	0	Low	8.42	<=13	PASS
Band4	20MHz	20050	16QAM	1	0	Low	8.44	<=13	PASS
Band4	20MHz	20050	16QAM	6	0	Low	8.45	<=13	PASS
Band4	20MHz	20175	QPSK	1	0	Low	8.42	<=13	PASS
Band4	20MHz	20175	QPSK	6	0	Low	8.46	<=13	PASS
Band4	20MHz	20175	16QAM	1	0	Low	8.44	<=13	PASS
Band4	20MHz	20175	16QAM	6	0	Low	8.45	<=13	PASS
Band4	20MHz	20300	QPSK	1	0	High	8.43	<=13	PASS
Band4	20MHz	20300	QPSK	6	0	High	8.43	<=13	PASS
Band4	20MHz	20300	16QAM	1	0	High	8.44	<=13	PASS
Band4	20MHz	20300	16QAM	6	0	High	8.43	<=13	PASS
Band5	1.4MHz	20407	QPSK	1	0	Low	8.58	<=13	PASS
Band5	1.4MHz	20407	QPSK	6	0	Low	8.87	<=13	PASS
Band5	1.4MHz	20407	16QAM	1	0	Low	9.22	<=13	PASS
Band5	1.4MHz	20407	16QAM	6	0	Low	11.68	<=13	PASS
Band5	1.4MHz	20525	QPSK	1	0	Low	7.88	<=13	PASS
Band5	1.4MHz	20525	QPSK	6	0	Low	8.87	<=13	PASS
Band5	1.4MHz	20525	16QAM	1	0	Low	8.96	<=13	PASS
Band5	1.4MHz	20525	16QAM	6	0	Low	8.87	<=13	PASS
Band5	1.4MHz	20643	QPSK	1	0	High	8.96	<=13	PASS
Band5	1.4MHz	20643	QPSK	6	0	High	8.87	<=13	PASS
Band5	1.4MHz	20643	16QAM	1	0	High	10.67	<=13	PASS
Band5	1.4MHz	20643	16QAM	6	0	High	9.77	<=13	PASS
Band5	3MHz	20415	QPSK	1	0	Low	8.49	<=13	PASS
Band5	3MHz	20415	QPSK	6	0	Low	8.87	<=13	PASS
Band5	3MHz	20415	16QAM	1	0	Low	10.72	<=13	PASS
Band5	3MHz	20415	16QAM	6	0	Low	11.04	<=13	PASS
Band5	3MHz	20525	QPSK	1	0	Low	8.38	<=13	PASS
Band5	3MHz	20525	QPSK	6	0	Low	8.96	<=13	PASS
Band5	3MHz	20525	16QAM	1	0	Low	9.62	<=13	PASS

Band5	3MHz	20525	16QAM	6	0	Low	8.9	<=13	PASS
Band5	3MHz	20635	QPSK	1	0	High	9.28	<=13	PASS
Band5	3MHz	20635	QPSK	6	0	High	8.9	<=13	PASS
Band5	3MHz	20635	16QAM	1	0	High	9.88	<=13	PASS
Band5	3MHz	20635	16QAM	6	0	High	10	<=13	PASS
Band5	5MHz	20425	QPSK	1	0	Low	3.97	<=13	PASS
Band5	5MHz	20425	QPSK	6	0	Low	11.59	<=13	PASS
Band5	5MHz	20425	16QAM	1	0	Low	11.45	<=13	PASS
Band5	5MHz	20425	16QAM	6	0	Low	10.81	<=13	PASS
Band5	5MHz	20525	QPSK	1	0	Low	10.23	<=13	PASS
Band5	5MHz	20525	QPSK	6	0	Low	10.58	<=13	PASS
Band5	5MHz	20525	16QAM	1	0	Low	9.04	<=13	PASS
Band5	5MHz	20525	16QAM	6	0	Low	8.75	<=13	PASS
Band5	5MHz	20625	QPSK	1	0	High	10.09	<=13	PASS
Band5	5MHz	20625	QPSK	6	0	High	11.59	<=13	PASS
Band5	5MHz	20625	16QAM	1	0	High	10.75	<=13	PASS
Band5	5MHz	20625	16QAM	6	0	High	11.59	<=13	PASS
Band5	10MHz	20450	QPSK	1	0	Low	8.43	<=13	PASS
Band5	10MHz	20450	QPSK	6	0	Low	8.41	<=13	PASS
Band5	10MHz	20450	16QAM	1	0	Low	8.42	<=13	PASS
Band5	10MHz	20450	16QAM	6	0	Low	8.44	<=13	PASS
Band5	10MHz	20525	QPSK	1	0	Low	8.4	<=13	PASS
Band5	10MHz	20525	QPSK	6	0	Low	8.43	<=13	PASS
Band5	10MHz	20525	16QAM	1	0	Low	8.43	<=13	PASS
Band5	10MHz	20525	16QAM	6	0	Low	8.41	<=13	PASS
Band5	10MHz	20600	QPSK	1	0	High	8.47	<=13	PASS
Band5	10MHz	20600	QPSK	6	0	High	8.39	<=13	PASS
Band5	10MHz	20600	16QAM	1	0	High	8.38	<=13	PASS
Band5	10MHz	20600	16QAM	6	0	High	8.43	<=13	PASS
Band12	1.4MHz	23017	QPSK	1	0	Low	10.11	<=13	PASS
Band12	1.4MHz	23017	QPSK	6	0	Low	10.48	<=13	PASS
Band12	1.4MHz	23017	16QAM	1	0	Low	11.57	<=13	PASS
Band12	1.4MHz	23017	16QAM	6	0	Low	10.17	<=13	PASS
Band12	1.4MHz	23095	QPSK	1	0	Low	9.63	<=13	PASS
Band12	1.4MHz	23095	QPSK	6	0	Low	8.46	<=13	PASS
Band12	1.4MHz	23095	16QAM	1	0	Low	8.46	<=13	PASS

Band12	1.4MHz	23095	16QAM	6	0	Low	8.46	<=13	PASS
Band12	1.4MHz	23173	QPSK	1	0	High	8.46	<=13	PASS
Band12	1.4MHz	23173	QPSK	6	0	High	8.46	<=13	PASS
Band12	1.4MHz	23173	16QAM	1	0	High	8.46	<=13	PASS
Band12	1.4MHz	23173	16QAM	6	0	High	8.41	<=13	PASS
Band12	3MHz	23025	QPSK	1	0	Low	8.43	<=13	PASS
Band12	3MHz	23025	QPSK	6	0	Low	10.93	<=13	PASS
Band12	3MHz	23025	16QAM	1	0	Low	11.68	<=13	PASS
Band12	3MHz	23025	16QAM	6	0	Low	11.77	<=13	PASS
Band12	3MHz	23095	QPSK	1	0	Low	9.01	<=13	PASS
Band12	3MHz	23095	QPSK	6	0	Low	11.25	<=13	PASS
Band12	3MHz	23095	16QAM	1	0	Low	9.74	<=13	PASS
Band12	3MHz	23095	16QAM	6	0	Low	10.09	<=13	PASS
Band12	3MHz	23165	QPSK	1	0	High	9.04	<=13	PASS
Band12	3MHz	23165	QPSK	6	0	High	10.64	<=13	PASS
Band12	3MHz	23165	16QAM	1	0	High	11.88	<=13	PASS
Band12	3MHz	23165	16QAM	6	0	High	10.38	<=13	PASS
Band12	5MHz	23035	QPSK	1	0	Low	8.12	<=13	PASS
Band12	5MHz	23035	QPSK	6	0	Low	9.19	<=13	PASS
Band12	5MHz	23035	16QAM	1	0	Low	9.83	<=13	PASS
Band12	5MHz	23035	16QAM	6	0	Low	9.16	<=13	PASS
Band12	5MHz	23095	QPSK	1	0	Low	9.36	<=13	PASS
Band12	5MHz	23095	QPSK	6	0	Low	9.19	<=13	PASS
Band12	5MHz	23095	16QAM	1	0	Low	11.25	<=13	PASS
Band12	5MHz	23095	16QAM	6	0	Low	9.54	<=13	PASS
Band12	5MHz	23155	QPSK	1	0	High	9.59	<=13	PASS
Band12	5MHz	23155	QPSK	6	0	High	9.54	<=13	PASS
Band12	5MHz	23155	16QAM	1	0	High	9.83	<=13	PASS
Band12	5MHz	23155	16QAM	6	0	High	9.19	<=13	PASS
Band12	10MHz	23060	QPSK	1	0	Low	8.39	<=13	PASS
Band12	10MHz	23060	QPSK	6	0	Low	8.41	<=13	PASS
Band12	10MHz	23060	16QAM	1	0	Low	8.42	<=13	PASS
Band12	10MHz	23060	16QAM	6	0	Low	8.39	<=13	PASS
Band12	10MHz	23095	QPSK	1	0	Low	8.42	<=13	PASS
Band12	10MHz	23095	QPSK	6	0	Low	8.41	<=13	PASS
Band12	10MHz	23095	16QAM	1	0	Low	8.42	<=13	PASS

Band12	10MHz	23095	16QAM	6	0	Low	8.41	<=13	PASS
Band12	10MHz	23130	QPSK	1	0	High	8.44	<=13	PASS
Band12	10MHz	23130	QPSK	6	0	High	8.44	<=13	PASS
Band12	10MHz	23130	16QAM	1	0	High	8.41	<=13	PASS
Band12	10MHz	23130	16QAM	6	0	High	8.45	<=13	PASS
Band13	5MHz	23205	QPSK	1	0	Low	5.39	<=13	PASS
Band13	5MHz	23205	QPSK	6	0	Low	9.16	<=13	PASS
Band13	5MHz	23205	16QAM	1	0	Low	10.64	<=13	PASS
Band13	5MHz	23205	16QAM	6	0	Low	9.19	<=13	PASS
Band13	5MHz	23230	QPSK	1	0	Low	9.57	<=13	PASS
Band13	5MHz	23230	QPSK	6	0	Low	9.88	<=13	PASS
Band13	5MHz	23230	16QAM	1	0	Low	12	<=13	PASS
Band13	5MHz	23230	16QAM	6	0	Low	11.19	<=13	PASS
Band13	5MHz	23255	QPSK	1	0	High	11.68	<=13	PASS
Band13	5MHz	23255	QPSK	6	0	High	9.83	<=13	PASS
Band13	5MHz	23255	16QAM	1	0	High	12	<=13	PASS
Band13	5MHz	23255	16QAM	6	0	High	9.45	<=13	PASS
Band13	10MHz	23230	QPSK	1	0	Low	8.41	<=13	PASS
Band13	10MHz	23230	QPSK	6	0	Low	8.39	<=13	PASS
Band13	10MHz	23230	16QAM	1	0	Low	8.43	<=13	PASS
Band13	10MHz	23230	16QAM	6	0	Low	8.39	<=13	PASS
Band25	1.4MHz	26047	QPSK	1	0	Low	8.43	<=13	PASS
Band25	1.4MHz	26047	QPSK	6	0	Low	9.8	<=13	PASS
Band25	1.4MHz	26047	16QAM	1	0	Low	10.96	<=13	PASS
Band25	1.4MHz	26047	16QAM	6	0	Low	10.35	<=13	PASS
Band25	1.4MHz	26365	QPSK	1	0	Low	9.54	<=13	PASS
Band25	1.4MHz	26365	QPSK	6	0	Low	10.43	<=13	PASS
Band25	1.4MHz	26365	16QAM	1	0	Low	12.35	<=13	PASS
Band25	1.4MHz	26365	16QAM	6	0	Low	9.36	<=13	PASS
Band25	1.4MHz	26683	QPSK	1	0	High	9.22	<=13	PASS
Band25	1.4MHz	26683	QPSK	6	0	High	11.25	<=13	PASS
Band25	1.4MHz	26683	16QAM	1	0	High	9.88	<=13	PASS
Band25	1.4MHz	26683	16QAM	6	0	High	9.62	<=13	PASS
Band25	3MHz	26055	QPSK	1	0	Low	5.54	<=13	PASS
Band25	3MHz	26055	QPSK	6	0	Low	9.48	<=13	PASS
Band25	3MHz	26055	16QAM	1	0	Low	10.75	<=13	PASS

Band25	3MHz	26055	16QAM	6	0	Low	11.13	<=13	PASS
Band25	3MHz	26365	QPSK	1	0	Low	9.3	<=13	PASS
Band25	3MHz	26365	QPSK	6	0	Low	11.28	<=13	PASS
Band25	3MHz	26365	16QAM	1	0	Low	9.94	<=13	PASS
Band25	3MHz	26365	16QAM	6	0	Low	9.33	<=13	PASS
Band25	3MHz	26675	QPSK	1	0	High	9.19	<=13	PASS
Band25	3MHz	26675	QPSK	6	0	High	9.33	<=13	PASS
Band25	3MHz	26675	16QAM	1	0	High	9.91	<=13	PASS
Band25	3MHz	26675	16QAM	6	0	High	11.1	<=13	PASS
Band25	5MHz	26065	QPSK	1	0	Low	5.57	<=13	PASS
Band25	5MHz	26065	QPSK	6	0	Low	11.86	<=13	PASS
Band25	5MHz	26065	16QAM	1	0	Low	12.46	<=13	PASS
Band25	5MHz	26065	16QAM	6	0	Low	11.86	<=13	PASS
Band25	5MHz	26365	QPSK	1	0	Low	10.99	<=13	PASS
Band25	5MHz	26365	QPSK	6	0	Low	10.2	<=13	PASS
Band25	5MHz	26365	16QAM	1	0	Low	12.43	<=13	PASS
Band25	5MHz	26365	16QAM	6	0	Low	11.83	<=13	PASS
Band25	5MHz	26665	QPSK	1	0	High	9.3	<=13	PASS
Band25	5MHz	26665	QPSK	6	0	High	9.68	<=13	PASS
Band25	5MHz	26665	16QAM	1	0	High	11.33	<=13	PASS
Band25	5MHz	26665	16QAM	6	0	High	10.12	<=13	PASS
Band25	10MHz	26090	QPSK	1	0	Low	8.45	<=13	PASS
Band25	10MHz	26090	QPSK	6	0	Low	8.46	<=13	PASS
Band25	10MHz	26090	16QAM	1	0	Low	8.45	<=13	PASS
Band25	10MHz	26090	16QAM	6	0	Low	8.43	<=13	PASS
Band25	10MHz	26365	QPSK	1	0	Low	8.44	<=13	PASS
Band25	10MHz	26365	QPSK	6	0	Low	8.43	<=13	PASS
Band25	10MHz	26365	16QAM	1	0	Low	8.45	<=13	PASS
Band25	10MHz	26365	16QAM	6	0	Low	8.41	<=13	PASS
Band25	10MHz	26640	QPSK	1	0	High	8.42	<=13	PASS
Band25	10MHz	26640	QPSK	6	0	High	8.43	<=13	PASS
Band25	10MHz	26640	16QAM	1	0	High	8.44	<=13	PASS
Band25	10MHz	26640	16QAM	6	0	High	8.43	<=13	PASS
Band25	15MHz	26115	QPSK	1	0	Low	8.43	<=13	PASS
Band25	15MHz	26115	QPSK	6	0	Low	8.42	<=13	PASS
Band25	15MHz	26115	16QAM	1	0	Low	8.44	<=13	PASS

Band25	15MHz	26115	16QAM	6	0	Low	8.43	<=13	PASS
Band25	15MHz	26365	QPSK	1	0	Low	8.41	<=13	PASS
Band25	15MHz	26365	QPSK	6	0	Low	8.44	<=13	PASS
Band25	15MHz	26365	16QAM	1	0	Low	8.44	<=13	PASS
Band25	15MHz	26365	16QAM	6	0	Low	8.45	<=13	PASS
Band25	15MHz	26615	QPSK	1	0	High	8.45	<=13	PASS
Band25	15MHz	26615	QPSK	6	0	High	8.44	<=13	PASS
Band25	15MHz	26615	16QAM	1	0	High	8.4	<=13	PASS
Band25	15MHz	26615	16QAM	6	0	High	8.42	<=13	PASS
Band25	20MHz	26140	QPSK	1	0	Low	8.43	<=13	PASS
Band25	20MHz	26140	QPSK	6	0	Low	8.44	<=13	PASS
Band25	20MHz	26140	16QAM	1	0	Low	8.43	<=13	PASS
Band25	20MHz	26140	16QAM	6	0	Low	8.41	<=13	PASS
Band25	20MHz	26365	QPSK	1	0	Low	8.4	<=13	PASS
Band25	20MHz	26365	QPSK	6	0	Low	8.44	<=13	PASS
Band25	20MHz	26365	16QAM	1	0	Low	8.45	<=13	PASS
Band25	20MHz	26365	16QAM	6	0	Low	8.41	<=13	PASS
Band25	20MHz	26590	QPSK	1	0	High	8.46	<=13	PASS
Band25	20MHz	26590	QPSK	6	0	High	8.42	<=13	PASS
Band25	20MHz	26590	16QAM	1	0	High	8.46	<=13	PASS
Band25	20MHz	26590	16QAM	6	0	High	8.44	<=13	PASS
Band26@90	1.4MHz	26697	QPSK	1	0	Low	8.58	<=13	PASS
Band26@90	1.4MHz	26697	QPSK	6	0	Low	11.45	<=13	PASS
Band26@90	1.4MHz	26697	16QAM	1	0	Low	8.93	<=13	PASS
Band26@90	1.4MHz	26697	16QAM	6	0	Low	9.1	<=13	PASS
Band26@90	1.4MHz	26740	QPSK	1	0	Low	8.99	<=13	PASS
Band26@90	1.4MHz	26740	QPSK	6	0	Low	8.87	<=13	PASS
Band26@90	1.4MHz	26740	16QAM	1	0	Low	8.87	<=13	PASS
Band26@90	1.4MHz	26740	16QAM	6	0	Low	10.09	<=13	PASS
Band26@90	1.4MHz	26783	QPSK	1	0	High	7.88	<=13	PASS
Band26@90	1.4MHz	26783	QPSK	6	0	High	9.13	<=13	PASS
Band26@90	1.4MHz	26783	16QAM	1	0	High	8.87	<=13	PASS

Band26@90	1.4MHz	26783	16QAM	6	0	High	8.87	<=13	PASS
Band26@22	1.4MHz	26797	QPSK	1	0	Low	8.41	<=13	PASS
Band26@22	1.4MHz	26797	QPSK	6	0	Low	10.58	<=13	PASS
Band26@22	1.4MHz	26797	16QAM	1	0	Low	8.9	<=13	PASS
Band26@22	1.4MHz	26797	16QAM	6	0	Low	8.87	<=13	PASS
Band26@22	1.4MHz	26915	QPSK	1	0	Low	10.75	<=13	PASS
Band26@22	1.4MHz	26915	QPSK	6	0	Low	10.49	<=13	PASS
Band26@22	1.4MHz	26915	16QAM	1	0	Low	9.51	<=13	PASS
Band26@22	1.4MHz	26915	16QAM	6	0	Low	9.88	<=13	PASS
Band26@22	1.4MHz	27033	QPSK	1	0	High	9.36	<=13	PASS
Band26@22	1.4MHz	27033	QPSK	6	0	High	11.42	<=13	PASS
Band26@22	1.4MHz	27033	16QAM	1	0	High	10.09	<=13	PASS
Band26@22	1.4MHz	27033	16QAM	6	0	High	9.97	<=13	PASS
Band26@90	3MHz	26705	QPSK	1	0	Low	7.13	<=13	PASS
Band26@90	3MHz	26705	QPSK	6	0	Low	11.68	<=13	PASS
Band26@90	3MHz	26705	16QAM	1	0	Low	10.81	<=13	PASS
Band26@90	3MHz	26705	16QAM	6	0	Low	10.9	<=13	PASS
Band26@90	3MHz	26740	QPSK	1	0	Low	8.41	<=13	PASS
Band26@90	3MHz	26740	QPSK	6	0	Low	11.68	<=13	PASS
Band26@90	3MHz	26740	16QAM	1	0	Low	10.29	<=13	PASS
Band26@90	3MHz	26740	16QAM	6	0	Low	11.68	<=13	PASS
Band26@90	3MHz	26775	QPSK	1	0	High	8.55	<=13	PASS
Band26@90	3MHz	26775	QPSK	6	0	High	11.68	<=13	PASS
Band26@90	3MHz	26775	16QAM	1	0	High	10.23	<=13	PASS
Band26@90	3MHz	26775	16QAM	6	0	High	11.68	<=13	PASS

Band26@22	3MHz	26805	QPSK	1	0	Low	8.52	<=13	PASS
Band26@22	3MHz	26805	QPSK	6	0	Low	9.48	<=13	PASS
Band26@22	3MHz	26805	16QAM	1	0	Low	8.9	<=13	PASS
Band26@22	3MHz	26805	16QAM	6	0	Low	10.17	<=13	PASS
Band26@22	3MHz	26915	QPSK	1	0	Low	7.71	<=13	PASS
Band26@22	3MHz	26915	QPSK	6	0	Low	10.03	<=13	PASS
Band26@22	3MHz	26915	16QAM	1	0	Low	11.74	<=13	PASS
Band26@22	3MHz	26915	16QAM	6	0	Low	10.93	<=13	PASS
Band26@22	3MHz	27025	QPSK	1	0	High	8.81	<=13	PASS
Band26@22	3MHz	27025	QPSK	6	0	High	8.84	<=13	PASS
Band26@22	3MHz	27025	16QAM	1	0	High	9.57	<=13	PASS
Band26@22	3MHz	27025	16QAM	6	0	High	8.84	<=13	PASS
Band26@90	5MHz	26715	QPSK	1	0	Low	8.32	<=13	PASS
Band26@90	5MHz	26715	QPSK	6	0	Low	9.39	<=13	PASS
Band26@90	5MHz	26715	16QAM	1	0	Low	10.52	<=13	PASS
Band26@90	5MHz	26715	16QAM	6	0	Low	8.67	<=13	PASS
Band26@90	5MHz	26740	QPSK	1	0	Low	8.64	<=13	PASS
Band26@90	5MHz	26740	QPSK	6	0	Low	8.67	<=13	PASS
Band26@90	5MHz	26740	16QAM	1	0	Low	8.17	<=13	PASS
Band26@90	5MHz	26740	16QAM	6	0	Low	8.93	<=13	PASS
Band26@90	5MHz	26785	QPSK	1	0	High	7.86	<=13	PASS
Band26@90	5MHz	26785	QPSK	6	0	High	8.81	<=13	PASS
Band26@90	5MHz	26785	16QAM	1	0	High	8.09	<=13	PASS
Band26@90	5MHz	26785	16QAM	6	0	High	9.01	<=13	PASS
Band26@22	5MHz	26815	QPSK	1	0	Low	8.55	<=13	PASS

Band26@22	5MHz	26815	QPSK	6	0	Low	11.51	<=13	PASS
Band26@22	5MHz	26815	16QAM	1	0	Low	8.06	<=13	PASS
Band26@22	5MHz	26815	16QAM	6	0	Low	11.54	<=13	PASS
Band26@22	5MHz	26915	QPSK	1	0	Low	7.91	<=13	PASS
Band26@22	5MHz	26915	QPSK	6	0	Low	10.87	<=13	PASS
Band26@22	5MHz	26915	16QAM	1	0	Low	9.19	<=13	PASS
Band26@22	5MHz	26915	16QAM	6	0	Low	8.61	<=13	PASS
Band26@22	5MHz	27015	QPSK	1	0	High	7.8	<=13	PASS
Band26@22	5MHz	27015	QPSK	6	0	High	8.61	<=13	PASS
Band26@22	5MHz	27015	16QAM	1	0	High	9.19	<=13	PASS
Band26@22	5MHz	27015	16QAM	6	0	High	8.61	<=13	PASS
Band26@90	10MHz	26740	QPSK	1	0	Low	8.43	<=13	PASS
Band26@90	10MHz	26740	QPSK	6	0	Low	8.44	<=13	PASS
Band26@90	10MHz	26740	16QAM	1	0	Low	8.45	<=13	PASS
Band26@90	10MHz	26740	16QAM	6	0	Low	8.41	<=13	PASS
Band26@22	10MHz	26840	QPSK	1	0	Low	8.39	<=13	PASS
Band26@22	10MHz	26840	QPSK	6	0	Low	8.41	<=13	PASS
Band26@22	10MHz	26840	16QAM	1	0	Low	8.42	<=13	PASS
Band26@22	10MHz	26840	16QAM	6	0	Low	8.43	<=13	PASS
Band26@22	10MHz	26915	QPSK	1	0	Low	8.43	<=13	PASS
Band26@22	10MHz	26915	QPSK	6	0	Low	8.43	<=13	PASS
Band26@22	10MHz	26915	16QAM	1	0	Low	8.42	<=13	PASS
Band26@22	10MHz	26915	16QAM	6	0	Low	8.42	<=13	PASS
Band26@22	10MHz	26990	QPSK	1	0	High	8.43	<=13	PASS
Band26@22	10MHz	26990	QPSK	6	0	High	8.39	<=13	PASS

Band26@22	10MHz	26990	16QAM	1	0	High	8.42	<=13	PASS
Band26@22	10MHz	26990	16QAM	6	0	High	8.44	<=13	PASS
Band26@22	15MHz	26865	QPSK	1	0	Low	8.4	<=13	PASS
Band26@22	15MHz	26865	QPSK	6	0	Low	8.42	<=13	PASS
Band26@22	15MHz	26865	16QAM	1	0	Low	8.46	<=13	PASS
Band26@22	15MHz	26865	16QAM	6	0	Low	8.44	<=13	PASS
Band26@22	15MHz	26915	QPSK	1	0	Low	8.4	<=13	PASS
Band26@22	15MHz	26915	QPSK	6	0	Low	8.4	<=13	PASS
Band26@22	15MHz	26915	16QAM	1	0	Low	8.46	<=13	PASS
Band26@22	15MHz	26915	16QAM	6	0	Low	8.42	<=13	PASS
Band26@22	15MHz	26965	QPSK	1	0	High	8.42	<=13	PASS
Band26@22	15MHz	26965	QPSK	6	0	High	8.4	<=13	PASS
Band26@22	15MHz	26965	16QAM	1	0	High	8.4	<=13	PASS
Band26@22	15MHz	26965	16QAM	6	0	High	8.44	<=13	PASS
Band66	1.4MHz	131979	QPSK	1	0	Low	8.41	<=13	PASS
Band66	1.4MHz	131979	QPSK	6	0	Low	8.52	<=13	PASS
Band66	1.4MHz	131979	16QAM	1	0	Low	9.57	<=13	PASS
Band66	1.4MHz	131979	16QAM	6	0	Low	8.96	<=13	PASS
Band66	1.4MHz	132322	QPSK	1	0	Low	10.64	<=13	PASS
Band66	1.4MHz	132322	QPSK	6	0	Low	11.54	<=13	PASS
Band66	1.4MHz	132322	16QAM	1	0	Low	9.36	<=13	PASS
Band66	1.4MHz	132322	16QAM	6	0	Low	10.93	<=13	PASS
Band66	1.4MHz	132665	QPSK	1	0	High	10.03	<=13	PASS
Band66	1.4MHz	132665	QPSK	6	0	High	11.3	<=13	PASS
Band66	1.4MHz	132665	16QAM	1	0	High	8.64	<=13	PASS
Band66	1.4MHz	132665	16QAM	6	0	High	9.3	<=13	PASS
Band66	3MHz	131987	QPSK	1	0	Low	9.95	<=13	PASS
Band66	3MHz	131987	QPSK	6	0	Low	10.77	<=13	PASS
Band66	3MHz	131987	16QAM	1	0	Low	10.32	<=13	PASS
Band66	3MHz	131987	16QAM	6	0	Low	11.07	<=13	PASS

Band66	3MHz	132322	QPSK	1	0	Low	8.14	<=13	PASS
Band66	3MHz	132322	QPSK	6	0	Low	11.57	<=13	PASS
Band66	3MHz	132322	16QAM	1	0	Low	8.52	<=13	PASS
Band66	3MHz	132322	16QAM	6	0	Low	10.52	<=13	PASS
Band66	3MHz	132657	QPSK	1	0	High	7.45	<=13	PASS
Band66	3MHz	132657	QPSK	6	0	High	11.3	<=13	PASS
Band66	3MHz	132657	16QAM	1	0	High	11.33	<=13	PASS
Band66	3MHz	132657	16QAM	6	0	High	8.67	<=13	PASS
Band66	5MHz	131997	QPSK	1	0	Low	8.43	<=13	PASS
Band66	5MHz	131997	QPSK	6	0	Low	8.78	<=13	PASS
Band66	5MHz	131997	16QAM	1	0	Low	10.55	<=13	PASS
Band66	5MHz	131997	16QAM	6	0	Low	11.07	<=13	PASS
Band66	5MHz	132322	QPSK	1	0	Low	9.88	<=13	PASS
Band66	5MHz	132322	QPSK	6	0	Low	9.45	<=13	PASS
Band66	5MHz	132322	16QAM	1	0	Low	9.88	<=13	PASS
Band66	5MHz	132322	16QAM	6	0	Low	11.28	<=13	PASS
Band66	5MHz	132647	QPSK	1	0	High	10.12	<=13	PASS
Band66	5MHz	132647	QPSK	6	0	High	9.22	<=13	PASS
Band66	5MHz	132647	16QAM	1	0	High	10.9	<=13	PASS
Band66	5MHz	132647	16QAM	6	0	High	9.65	<=13	PASS
Band66	10MHz	132022	QPSK	1	0	Low	8.41	<=13	PASS
Band66	10MHz	132022	QPSK	6	0	Low	8.42	<=13	PASS
Band66	10MHz	132022	16QAM	1	0	Low	8.48	<=13	PASS
Band66	10MHz	132022	16QAM	6	0	Low	8.41	<=13	PASS
Band66	10MHz	132322	QPSK	1	0	Low	8.41	<=13	PASS
Band66	10MHz	132322	QPSK	6	0	Low	8.46	<=13	PASS
Band66	10MHz	132322	16QAM	1	0	Low	8.43	<=13	PASS
Band66	10MHz	132322	16QAM	6	0	Low	8.44	<=13	PASS
Band66	10MHz	132622	QPSK	1	0	High	8.38	<=13	PASS
Band66	10MHz	132622	QPSK	6	0	High	8.44	<=13	PASS
Band66	10MHz	132622	16QAM	1	0	High	8.49	<=13	PASS
Band66	10MHz	132622	16QAM	6	0	High	8.44	<=13	PASS
Band66	15MHz	132047	QPSK	1	0	Low	8.41	<=13	PASS
Band66	15MHz	132047	QPSK	6	0	Low	8.42	<=13	PASS
Band66	15MHz	132047	16QAM	1	0	Low	8.43	<=13	PASS
Band66	15MHz	132047	16QAM	6	0	Low	8.41	<=13	PASS

Band66	15MHz	132322	QPSK	1	0	Low	8.42	<=13	PASS
Band66	15MHz	132322	QPSK	6	0	Low	8.42	<=13	PASS
Band66	15MHz	132322	16QAM	1	0	Low	8.38	<=13	PASS
Band66	15MHz	132322	16QAM	6	0	Low	8.42	<=13	PASS
Band66	15MHz	132597	QPSK	1	0	High	8.43	<=13	PASS
Band66	15MHz	132597	QPSK	6	0	High	8.44	<=13	PASS
Band66	15MHz	132597	16QAM	1	0	High	8.44	<=13	PASS
Band66	15MHz	132597	16QAM	6	0	High	8.41	<=13	PASS
Band66	20MHz	132072	QPSK	1	0	Low	8.43	<=13	PASS
Band66	20MHz	132072	QPSK	6	0	Low	8.44	<=13	PASS
Band66	20MHz	132072	16QAM	1	0	Low	8.4	<=13	PASS
Band66	20MHz	132072	16QAM	6	0	Low	8.41	<=13	PASS
Band66	20MHz	132322	QPSK	1	0	Low	8.43	<=13	PASS
Band66	20MHz	132322	QPSK	6	0	Low	8.43	<=13	PASS
Band66	20MHz	132322	16QAM	1	0	Low	8.42	<=13	PASS
Band66	20MHz	132322	16QAM	6	0	Low	8.4	<=13	PASS
Band66	20MHz	132572	QPSK	1	0	High	8.45	<=13	PASS
Band66	20MHz	132572	QPSK	6	0	High	8.45	<=13	PASS
Band66	20MHz	132572	16QAM	1	0	High	8.43	<=13	PASS
Band66	20MHz	132572	16QAM	6	0	High	8.43	<=13	PASS
Band85	5MHz	134027	QPSK	1	0	Low	4.26	<=13	PASS
Band85	5MHz	134027	QPSK	6	0	Low	9.83	<=13	PASS
Band85	5MHz	134027	16QAM	1	0	Low	9.16	<=13	PASS
Band85	5MHz	134027	16QAM	6	0	Low	8.43	<=13	PASS
Band85	5MHz	134092	QPSK	1	0	Low	10.75	<=13	PASS
Band85	5MHz	134092	QPSK	6	0	Low	9.57	<=13	PASS
Band85	5MHz	134092	16QAM	1	0	Low	8.9	<=13	PASS
Band85	5MHz	134092	16QAM	6	0	Low	10.72	<=13	PASS
Band85	5MHz	134157	QPSK	1	0	High	7.74	<=13	PASS
Band85	5MHz	134157	QPSK	6	0	High	8.35	<=13	PASS
Band85	5MHz	134157	16QAM	1	0	High	8.61	<=13	PASS
Band85	5MHz	134157	16QAM	6	0	High	9.1	<=13	PASS
Band85	10MHz	134052	QPSK	1	0	Low	8.41	<=13	PASS
Band85	10MHz	134052	QPSK	6	0	Low	8.43	<=13	PASS
Band85	10MHz	134052	16QAM	1	0	Low	8.42	<=13	PASS
Band85	10MHz	134052	16QAM	6	0	Low	8.44	<=13	PASS

Band85	10MHz	134092	QPSK	1	0	Low	8.45	<=13	PASS
Band85	10MHz	134092	QPSK	6	0	Low	8.48	<=13	PASS
Band85	10MHz	134092	16QAM	1	0	Low	8.4	<=13	PASS
Band85	10MHz	134092	16QAM	6	0	Low	8.42	<=13	PASS
Band85	10MHz	134132	QPSK	1	0	High	8.41	<=13	PASS
Band85	10MHz	134132	QPSK	6	0	High	8.44	<=13	PASS
Band85	10MHz	134132	16QAM	1	0	High	8.42	<=13	PASS
Band85	10MHz	134132	16QAM	6	0	High	8.45	<=13	PASS

4.4 99% Occupied Bandwidth and 26dB Bandwidth Measurement

4.4.1 Description of 99% Occupied Bandwidth and 26dB Bandwidth Measurement

The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

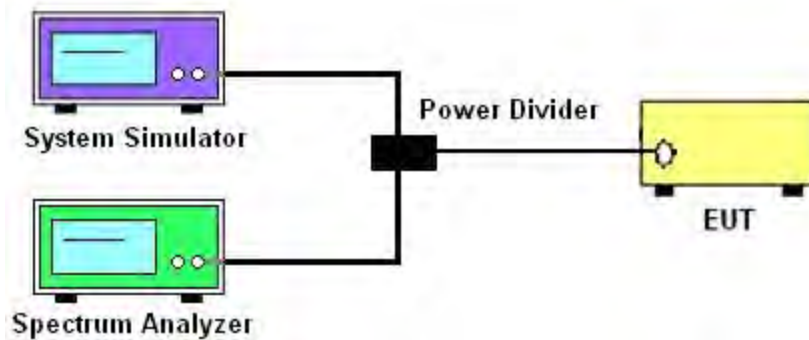
4.4.2 Limit

For reporting purposes only

4.4.3 Test Procedures

- 1.The testing follows Sub clause 5.4.3 of ANSI C63.26-2015
- 2.The EUT was connected to spectrum analyzer and system simulator via a power divider.
- 3.The signal analyzer's automatic bandwidth measurement capability was used to perform the 99% occupied bandwidth and the 26dB bandwidth the bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
- 4.RBW = 1~5% of the expected OBW, VBW $\geq 3 \times$ RBW
- 5.Set the detection mode to peak, and the trace mode to max hold.
- 6.Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace.(this is the reference value)
- 7.Determine the "-26 dB down amplitude" as equal to (Reference Value – X).
- 8.Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the "-X dB down amplitude" determined in step 6. If a marker is below this "-X dB down amplitude" value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.
- 9.Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

4.4.4 Test Setup

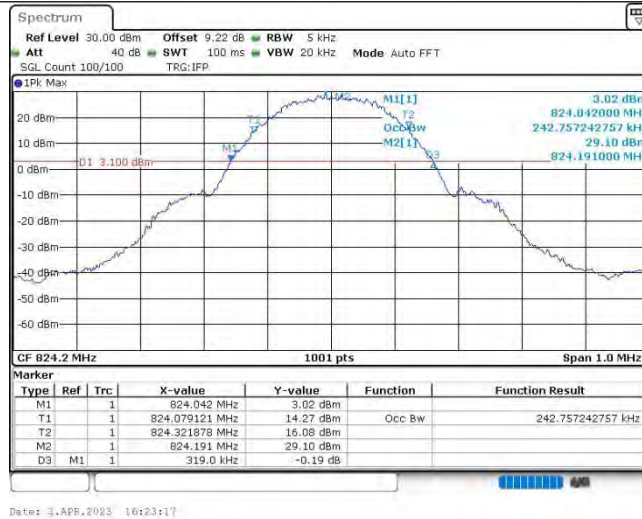


4.4.5 Test Results

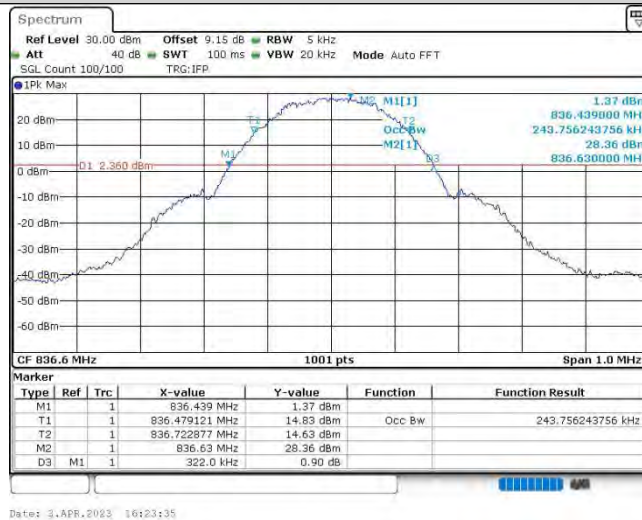
GSM Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GPRS850	128	0.243	0.32	---	PASS
GPRS850	190	0.244	0.32	---	PASS
GPRS850	251	0.245	0.32	---	PASS
EGPRS850	128	0.244	0.32	---	PASS
EGPRS850	190	0.244	0.31	---	PASS
EGPRS850	251	0.247	0.32	---	PASS
GPRS1900	512	0.244	0.32	---	PASS
GPRS1900	661	0.244	0.32	---	PASS
GPRS1900	810	0.245	0.32	---	PASS
EGPRS1900	512	0.244	0.32	---	PASS
EGPRS1900	661	0.244	0.32	---	PASS
EGPRS1900	810	0.246	0.32	---	PASS

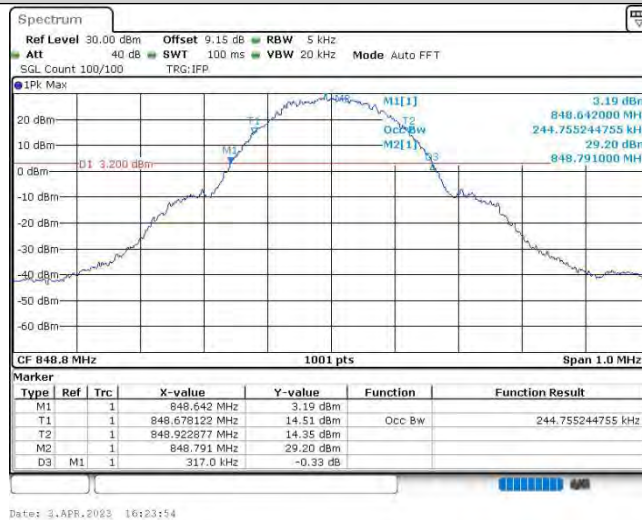
GSM Test Graphs



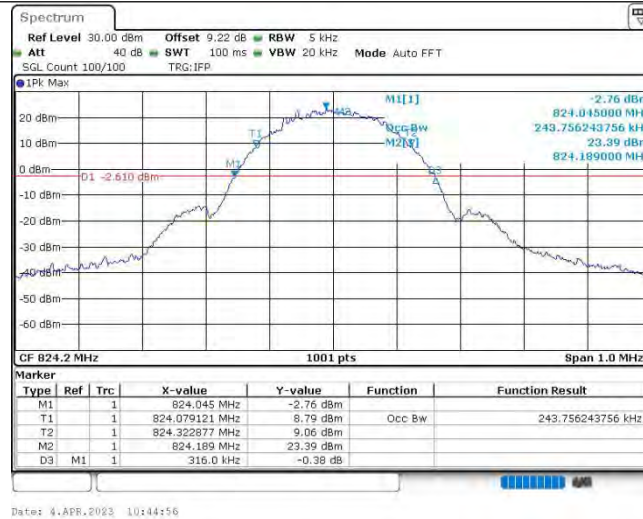
GPRS850-128



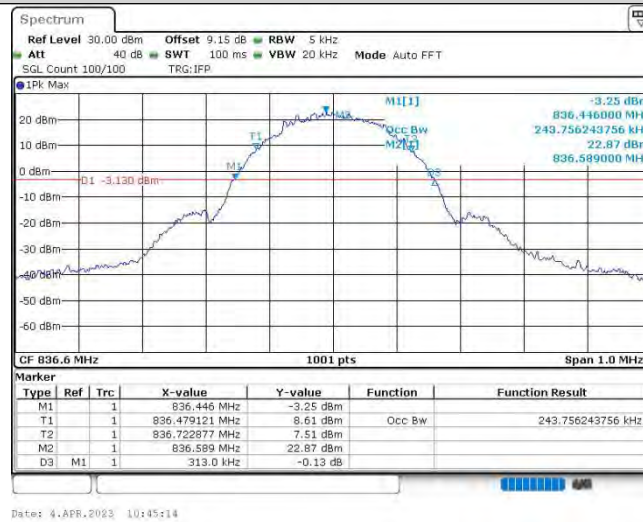
GPRS850-190



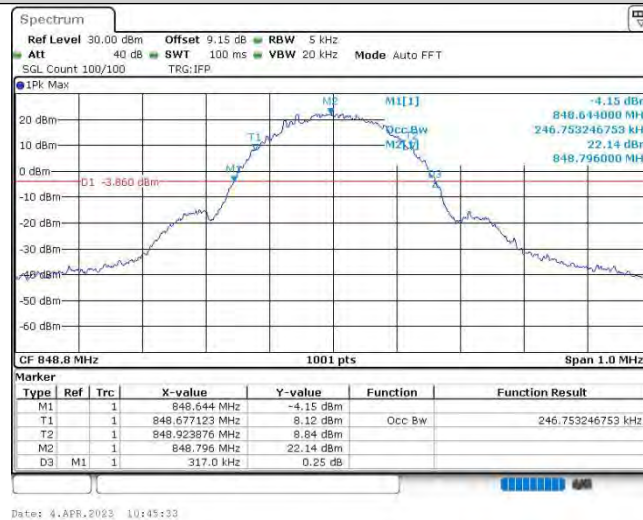
GPRS850-251



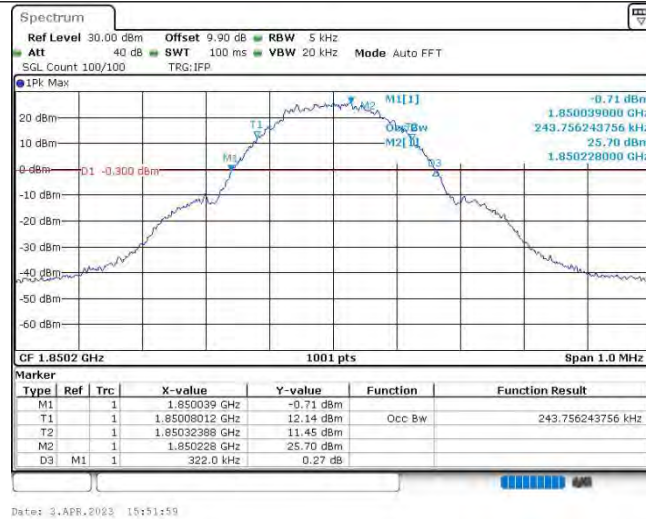
EGPRS850-128



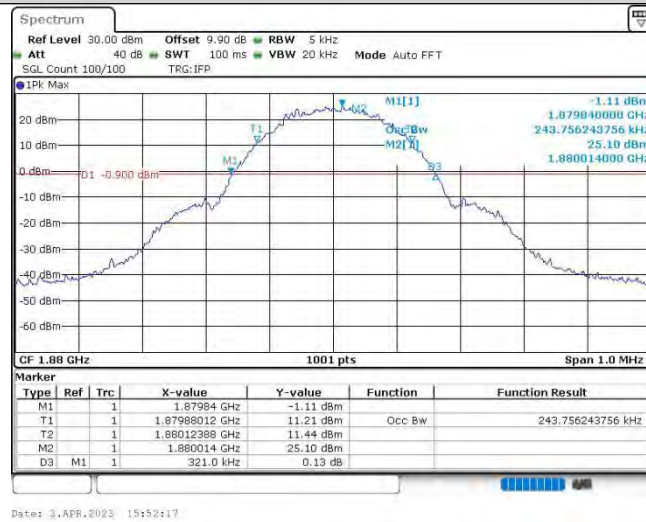
EGPRS850-190



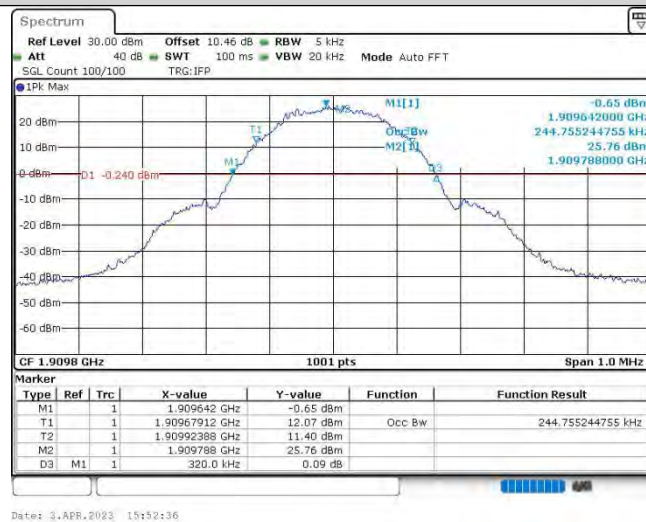
EGPRS850-251



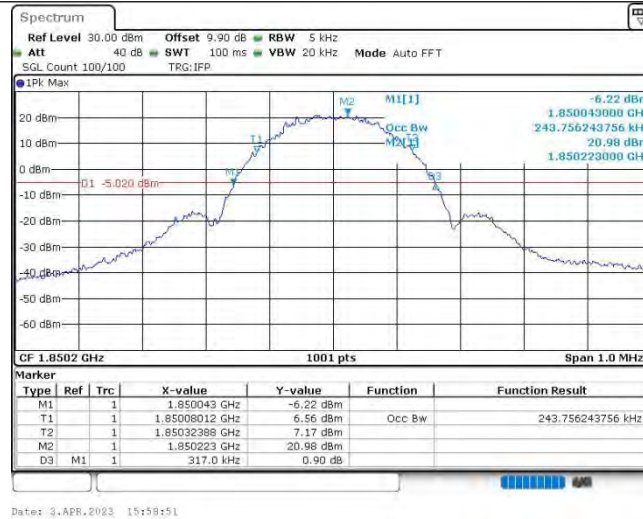
GPRS1900-512



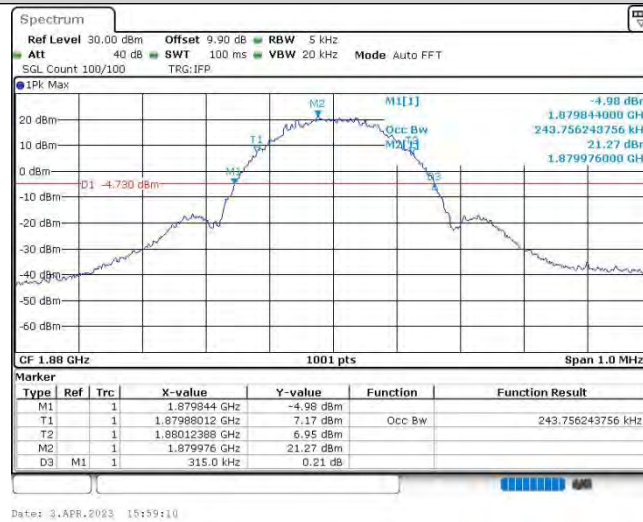
GPRS1900-661



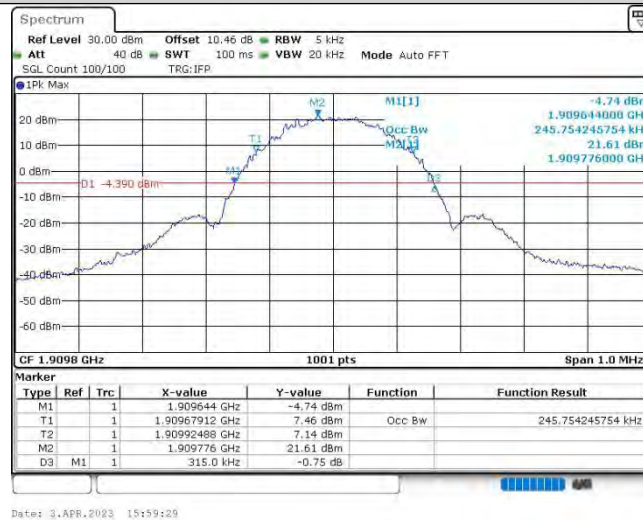
GPRS1900-810



EGPRS1900-512



EGPRS1900-661



EGPRS1900-810

LTE Cat M1 Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	23017	QPSK	6	0	Low	1.1	1.347	PASS
Band12	1.4MHz	23095	QPSK	6	0	Low	1.097	1.305	PASS
Band12	1.4MHz	23173	QPSK	6	0	High	1.1	1.347	PASS
Band12	1.4MHz	23017	16QAM	6	0	Low	1.1	1.347	PASS
Band12	1.4MHz	23095	16QAM	6	0	Low	1.097	1.305	PASS
Band12	1.4MHz	23173	16QAM	6	0	High	1.1	1.347	PASS
Band12	3MHz	23025	QPSK	6	0	Low	1.121	1.338	PASS
Band12	3MHz	23095	QPSK	6	0	Low	1.115	1.368	PASS
Band12	3MHz	23165	QPSK	6	0	High	1.109	1.332	PASS
Band12	3MHz	23025	16QAM	6	0	Low	1.121	1.332	PASS
Band12	3MHz	23095	16QAM	6	0	Low	1.115	1.344	PASS
Band12	3MHz	23165	16QAM	6	0	High	1.109	1.332	PASS
Band12	5MHz	23035	QPSK	6	0	Low	1.169	1.630	PASS
Band12	5MHz	23095	QPSK	6	0	Low	1.169	1.440	PASS
Band12	5MHz	23155	QPSK	6	0	High	1.169	1.590	PASS
Band12	5MHz	23035	16QAM	6	0	Low	1.189	1.630	PASS
Band12	5MHz	23095	16QAM	6	0	Low	1.169	1.440	PASS
Band12	5MHz	23155	16QAM	6	0	High	1.179	1.500	PASS
Band12	10MHz	23060	QPSK	6	0	Low	1.319	1.640	PASS
Band12	10MHz	23095	QPSK	6	0	Low	1.339	1.780	PASS
Band12	10MHz	23130	QPSK	6	0	High	1.339	1.660	PASS
Band12	10MHz	23060	16QAM	6	0	Low	1.319	1.640	PASS
Band12	10MHz	23095	16QAM	6	0	Low	1.359	2.080	PASS
Band12	10MHz	23130	16QAM	6	0	High	1.439	2.120	PASS
Band13	5MHz	23205	QPSK	6	0	Low	1.189	1.520	PASS
Band13	5MHz	23230	QPSK	6	0	Low	1.179	1.430	PASS
Band13	5MHz	23255	QPSK	6	0	High	1.179	1.620	PASS
Band13	5MHz	23205	16QAM	6	0	Low	1.189	1.520	PASS
Band13	5MHz	23230	16QAM	6	0	Low	1.189	1.540	PASS
Band13	5MHz	23255	16QAM	6	0	High	1.169	1.470	PASS
Band13	10MHz	23230	QPSK	6	0	Low	1.319	1.820	PASS
Band13	10MHz	23230	16QAM	6	0	Low	1.339	1.700	PASS
Band2	1.4MHz	18607	QPSK	6	0	Low	1.094	1.278	PASS

Band2	1.4MHz	18900	QPSK	6	0	Low	1.094	1.284	PASS
Band2	1.4MHz	19193	QPSK	6	0	High	1.094	1.278	PASS
Band2	1.4MHz	18607	16QAM	6	0	Low	1.097	1.275	PASS
Band2	1.4MHz	18900	16QAM	6	0	Low	1.094	1.281	PASS
Band2	1.4MHz	19193	16QAM	6	0	High	1.094	1.278	PASS
Band2	3MHz	18615	QPSK	6	0	Low	1.121	1.398	PASS
Band2	3MHz	18900	QPSK	6	0	Low	1.127	1.416	PASS
Band2	3MHz	19185	QPSK	6	0	High	1.115	1.422	PASS
Band2	3MHz	18615	16QAM	6	0	Low	1.127	1.398	PASS
Band2	3MHz	18900	16QAM	6	0	Low	1.127	1.410	PASS
Band2	3MHz	19185	16QAM	6	0	High	1.115	1.422	PASS
Band2	5MHz	18625	QPSK	6	0	Low	1.189	1.640	PASS
Band2	5MHz	18900	QPSK	6	0	Low	1.189	1.430	PASS
Band2	5MHz	19175	QPSK	6	0	High	1.209	1.650	PASS
Band2	5MHz	18625	16QAM	6	0	Low	1.169	1.430	PASS
Band2	5MHz	18900	16QAM	6	0	Low	1.219	1.690	PASS
Band2	5MHz	19175	16QAM	6	0	High	1.179	1.420	PASS
Band2	10MHz	18650	QPSK	6	0	Low	1.319	1.620	PASS
Band2	10MHz	18900	QPSK	6	0	Low	1.299	1.600	PASS
Band2	10MHz	19150	QPSK	6	0	High	1.319	1.640	PASS
Band2	10MHz	18650	16QAM	6	0	Low	1.359	1.900	PASS
Band2	10MHz	18900	16QAM	6	0	Low	1.319	1.600	PASS
Band2	10MHz	19150	16QAM	6	0	High	1.319	1.640	PASS
Band2	15MHz	18675	QPSK	6	0	Low	1.618	2.550	PASS
Band2	15MHz	18900	QPSK	6	0	Low	1.558	2.550	PASS
Band2	15MHz	19125	QPSK	6	0	High	1.499	1.890	PASS
Band2	15MHz	18675	16QAM	6	0	Low	2.128	3.390	PASS
Band2	15MHz	18900	16QAM	6	0	Low	1.499	1.920	PASS
Band2	15MHz	19125	16QAM	6	0	High	1.469	1.890	PASS
Band2	20MHz	18700	QPSK	6	0	Low	2.917	4.600	PASS
Band2	20MHz	18900	QPSK	6	0	Low	3.397	5.120	PASS
Band2	20MHz	19100	QPSK	6	0	High	3.357	5.160	PASS
Band2	20MHz	18700	16QAM	6	0	Low	2.957	4.640	PASS
Band2	20MHz	18900	16QAM	6	0	Low	3.397	5.200	PASS
Band2	20MHz	19100	16QAM	6	0	High	3.357	5.200	PASS
Band25	1.4MHz	26047	QPSK	6	0	Low	1.091	1.284	PASS
Band25	1.4MHz	26365	QPSK	6	0	Low	1.094	1.275	PASS

Band25	1.4MHz	26683	QPSK	6	0	High	1.094	1.275	PASS
Band25	1.4MHz	26047	16QAM	6	0	Low	1.091	1.281	PASS
Band25	1.4MHz	26365	16QAM	6	0	Low	1.091	1.275	PASS
Band25	1.4MHz	26683	16QAM	6	0	High	1.094	1.275	PASS
Band25	3MHz	26055	QPSK	6	0	Low	1.127	1.350	PASS
Band25	3MHz	26365	QPSK	6	0	Low	1.121	1.380	PASS
Band25	3MHz	26675	QPSK	6	0	High	1.115	1.392	PASS
Band25	3MHz	26055	16QAM	6	0	Low	1.127	1.350	PASS
Band25	3MHz	26365	16QAM	6	0	Low	1.121	1.374	PASS
Band25	3MHz	26675	16QAM	6	0	High	1.115	1.410	PASS
Band25	5MHz	26065	QPSK	6	0	Low	1.169	1.420	PASS
Band25	5MHz	26365	QPSK	6	0	Low	1.179	1.430	PASS
Band25	5MHz	26665	QPSK	6	0	High	1.199	1.650	PASS
Band25	5MHz	26065	16QAM	6	0	Low	1.179	1.670	PASS
Band25	5MHz	26365	16QAM	6	0	Low	1.209	1.660	PASS
Band25	5MHz	26665	16QAM	6	0	High	1.189	1.440	PASS
Band25	10MHz	26090	QPSK	6	0	Low	1.299	1.600	PASS
Band25	10MHz	26365	QPSK	6	0	Low	1.319	1.620	PASS
Band25	10MHz	26640	QPSK	6	0	High	1.319	1.640	PASS
Band25	10MHz	26090	16QAM	6	0	Low	1.319	1.640	PASS
Band25	10MHz	26365	16QAM	6	0	Low	1.299	1.600	PASS
Band25	10MHz	26640	16QAM	6	0	High	1.319	1.640	PASS
Band25	15MHz	26115	QPSK	6	0	Low	1.469	1.890	PASS
Band25	15MHz	26365	QPSK	6	0	Low	1.469	1.890	PASS
Band25	15MHz	26615	QPSK	6	0	High	1.499	1.920	PASS
Band25	15MHz	26115	16QAM	6	0	Low	1.858	2.640	PASS
Band25	15MHz	26365	16QAM	6	0	Low	2.248	3.510	PASS
Band25	15MHz	26615	16QAM	6	0	High	1.499	1.860	PASS
Band25	20MHz	26140	QPSK	6	0	Low	2.957	4.640	PASS
Band25	20MHz	26365	QPSK	6	0	Low	3.277	5.040	PASS
Band25	20MHz	26590	QPSK	6	0	High	3.237	5.040	PASS
Band25	20MHz	26140	16QAM	6	0	Low	2.917	4.600	PASS
Band25	20MHz	26365	16QAM	6	0	Low	3.277	5.120	PASS
Band25	20MHz	26590	16QAM	6	0	High	3.197	5.000	PASS
Band26	1.4MHz	26697	QPSK	6	0	Low	1.091	1.269	PASS
Band26	1.4MHz	26740	QPSK	6	0	Low	1.091	1.281	PASS
Band26	1.4MHz	26783	QPSK	6	0	High	1.091	1.269	PASS

Band26	1.4MHz	26797	QPSK	6	0	Low	1.094	1.281	PASS
Band26	1.4MHz	26915	QPSK	6	0	Low	1.091	1.281	PASS
Band26	1.4MHz	27033	QPSK	6	0	High	1.094	1.281	PASS
Band26	1.4MHz	26697	16QAM	6	0	Low	1.091	1.269	PASS
Band26	1.4MHz	26740	16QAM	6	0	Low	1.094	1.281	PASS
Band26	1.4MHz	26783	16QAM	6	0	High	1.091	1.269	PASS
Band26	1.4MHz	26797	16QAM	6	0	Low	1.091	1.278	PASS
Band26	1.4MHz	26915	16QAM	6	0	Low	1.091	1.281	PASS
Band26	1.4MHz	27033	16QAM	6	0	High	1.094	1.281	PASS
Band26	3MHz	26705	QPSK	6	0	Low	1.115	1.374	PASS
Band26	3MHz	26740	QPSK	6	0	Low	1.127	1.350	PASS
Band26	3MHz	26775	QPSK	6	0	High	1.127	1.440	PASS
Band26	3MHz	26805	QPSK	6	0	Low	1.115	1.380	PASS
Band26	3MHz	26915	QPSK	6	0	Low	1.121	1.386	PASS
Band26	3MHz	27025	QPSK	6	0	High	1.109	1.368	PASS
Band26	3MHz	26705	16QAM	6	0	Low	1.115	1.332	PASS
Band26	3MHz	26740	16QAM	6	0	Low	1.127	1.356	PASS
Band26	3MHz	26775	16QAM	6	0	High	1.127	1.434	PASS
Band26	3MHz	26805	16QAM	6	0	Low	1.115	1.386	PASS
Band26	3MHz	26915	16QAM	6	0	Low	1.115	1.392	PASS
Band26	3MHz	27025	16QAM	6	0	High	1.109	1.362	PASS
Band26	5MHz	26715	QPSK	6	0	Low	1.179	1.440	PASS
Band26	5MHz	26740	QPSK	6	0	Low	1.159	1.420	PASS
Band26	5MHz	26785	QPSK	6	0	High	1.179	1.450	PASS
Band26	5MHz	26815	QPSK	6	0	Low	1.179	1.490	PASS
Band26	5MHz	26915	QPSK	6	0	Low	1.169	1.420	PASS
Band26	5MHz	27015	QPSK	6	0	High	1.179	1.580	PASS
Band26	5MHz	26715	16QAM	6	0	Low	1.189	1.590	PASS
Band26	5MHz	26740	16QAM	6	0	Low	1.169	1.600	PASS
Band26	5MHz	26785	16QAM	6	0	High	1.179	1.430	PASS
Band26	5MHz	26815	16QAM	6	0	Low	1.189	1.510	PASS
Band26	5MHz	26915	16QAM	6	0	Low	1.179	1.420	PASS
Band26	5MHz	27015	16QAM	6	0	High	1.179	1.420	PASS
Band26	10MHz	26740	QPSK	6	0	Low	1.379	1.980	PASS
Band26	10MHz	26840	QPSK	6	0	Low	1.319	1.620	PASS
Band26	10MHz	26915	QPSK	6	0	Low	1.339	1.780	PASS
Band26	10MHz	26990	QPSK	6	0	High	1.359	1.800	PASS

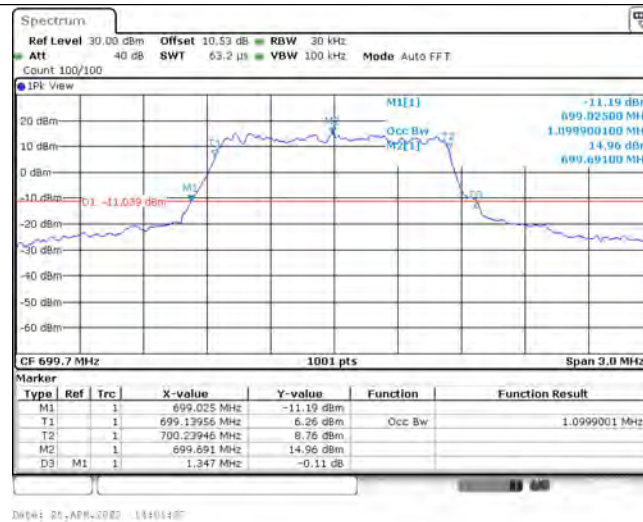
Band26	10MHz	26740	16QAM	6	0	Low	1.319	1.760	PASS
Band26	10MHz	26840	16QAM	6	0	Low	1.319	1.600	PASS
Band26	10MHz	26915	16QAM	6	0	Low	1.319	1.640	PASS
Band26	10MHz	26990	16QAM	6	0	High	1.379	2.000	PASS
Band26	15MHz	26865	QPSK	6	0	Low	1.469	1.860	PASS
Band26	15MHz	26915	QPSK	6	0	Low	1.678	2.760	PASS
Band26	15MHz	26965	QPSK	6	0	High	1.439	1.860	PASS
Band26	15MHz	26865	16QAM	6	0	Low	1.469	1.890	PASS
Band26	15MHz	26915	16QAM	6	0	Low	1.528	1.890	PASS
Band26	15MHz	26965	16QAM	6	0	High	1.499	1.890	PASS
Band4	1.4MHz	19957	QPSK	6	0	Low	1.091	1.281	PASS
Band4	1.4MHz	20175	QPSK	6	0	Low	1.091	1.266	PASS
Band4	1.4MHz	20393	QPSK	6	0	High	1.094	1.281	PASS
Band4	1.4MHz	19957	16QAM	6	0	Low	1.094	1.278	PASS
Band4	1.4MHz	20175	16QAM	6	0	Low	1.091	1.269	PASS
Band4	1.4MHz	20393	16QAM	6	0	High	1.091	1.281	PASS
Band4	3MHz	19965	QPSK	6	0	Low	1.121	1.350	PASS
Band4	3MHz	20175	QPSK	6	0	Low	1.121	1.386	PASS
Band4	3MHz	20385	QPSK	6	0	High	1.115	1.392	PASS
Band4	3MHz	19965	16QAM	6	0	Low	1.121	1.350	PASS
Band4	3MHz	20175	16QAM	6	0	Low	1.127	1.398	PASS
Band4	3MHz	20385	16QAM	6	0	High	1.115	1.374	PASS
Band4	5MHz	19975	QPSK	6	0	Low	1.189	1.650	PASS
Band4	5MHz	20175	QPSK	6	0	Low	1.179	1.450	PASS
Band4	5MHz	20375	QPSK	6	0	High	1.169	1.420	PASS
Band4	5MHz	19975	16QAM	6	0	Low	1.179	1.530	PASS
Band4	5MHz	20175	16QAM	6	0	Low	1.189	1.640	PASS
Band4	5MHz	20375	16QAM	6	0	High	1.209	1.670	PASS
Band4	10MHz	20000	QPSK	6	0	Low	1.339	1.780	PASS
Band4	10MHz	20175	QPSK	6	0	Low	1.299	1.600	PASS
Band4	10MHz	20350	QPSK	6	0	High	1.299	1.640	PASS
Band4	10MHz	20000	16QAM	6	0	Low	1.319	1.640	PASS
Band4	10MHz	20175	16QAM	6	0	Low	1.638	2.400	PASS
Band4	10MHz	20350	16QAM	6	0	High	1.299	1.640	PASS
Band4	15MHz	20025	QPSK	6	0	Low	2.128	3.390	PASS
Band4	15MHz	20175	QPSK	6	0	Low	1.469	1.890	PASS
Band4	15MHz	20325	QPSK	6	0	High	1.499	1.890	PASS

Band4	15MHz	20025	16QAM	6	0	Low	1.469	1.950	PASS
Band4	15MHz	20175	16QAM	6	0	Low	1.499	1.920	PASS
Band4	15MHz	20325	16QAM	6	0	High	1.528	1.920	PASS
Band4	20MHz	20050	QPSK	6	0	Low	2.957	4.640	PASS
Band4	20MHz	20175	QPSK	6	0	Low	3.437	5.160	PASS
Band4	20MHz	20300	QPSK	6	0	High	3.397	5.160	PASS
Band4	20MHz	20050	16QAM	6	0	Low	2.957	4.640	PASS
Band4	20MHz	20175	16QAM	6	0	Low	3.397	5.200	PASS
Band4	20MHz	20300	16QAM	6	0	High	3.397	5.200	PASS
Band5	1.4MHz	20407	QPSK	6	0	Low	1.091	1.269	PASS
Band5	1.4MHz	20525	QPSK	6	0	Low	1.091	1.281	PASS
Band5	1.4MHz	20643	QPSK	6	0	High	1.091	1.281	PASS
Band5	1.4MHz	20407	16QAM	6	0	Low	1.091	1.269	PASS
Band5	1.4MHz	20525	16QAM	6	0	Low	1.091	1.278	PASS
Band5	1.4MHz	20643	16QAM	6	0	High	1.091	1.278	PASS
Band5	3MHz	20415	QPSK	6	0	Low	1.115	1.380	PASS
Band5	3MHz	20525	QPSK	6	0	Low	1.115	1.374	PASS
Band5	3MHz	20635	QPSK	6	0	High	1.109	1.386	PASS
Band5	3MHz	20415	16QAM	6	0	Low	1.115	1.380	PASS
Band5	3MHz	20525	16QAM	6	0	Low	1.115	1.380	PASS
Band5	3MHz	20635	16QAM	6	0	High	1.109	1.380	PASS
Band5	5MHz	20425	QPSK	6	0	Low	1.189	1.430	PASS
Band5	5MHz	20525	QPSK	6	0	Low	1.179	1.530	PASS
Band5	5MHz	20625	QPSK	6	0	High	1.179	1.440	PASS
Band5	5MHz	20425	16QAM	6	0	Low	1.189	1.590	PASS
Band5	5MHz	20525	16QAM	6	0	Low	1.189	1.590	PASS
Band5	5MHz	20625	16QAM	6	0	High	1.189	1.580	PASS
Band5	10MHz	20450	QPSK	6	0	Low	1.319	1.640	PASS
Band5	10MHz	20525	QPSK	6	0	Low	1.319	1.680	PASS
Band5	10MHz	20600	QPSK	6	0	High	1.359	1.980	PASS
Band5	10MHz	20450	16QAM	6	0	Low	1.319	1.780	PASS
Band5	10MHz	20525	16QAM	6	0	Low	1.299	1.600	PASS
Band5	10MHz	20600	16QAM	6	0	High	1.339	1.660	PASS
Band66	1.4MHz	131979	QPSK	6	0	Low	1.094	1.281	PASS
Band66	1.4MHz	132322	QPSK	6	0	Low	1.094	1.269	PASS
Band66	1.4MHz	132665	QPSK	6	0	High	1.097	1.281	PASS
Band66	1.4MHz	131979	16QAM	6	0	Low	1.094	1.284	PASS

Band66	1.4MHz	132322	16QAM	6	0	Low	1.094	1.278	PASS
Band66	1.4MHz	132665	16QAM	6	0	High	1.094	1.281	PASS
Band66	3MHz	131987	QPSK	6	0	Low	1.121	1.392	PASS
Band66	3MHz	132322	QPSK	6	0	Low	1.127	1.404	PASS
Band66	3MHz	132657	QPSK	6	0	High	1.115	1.398	PASS
Band66	3MHz	131987	16QAM	6	0	Low	1.115	1.332	PASS
Band66	3MHz	132322	16QAM	6	0	Low	1.121	1.350	PASS
Band66	3MHz	132657	16QAM	6	0	High	1.115	1.404	PASS
Band66	5MHz	131997	QPSK	6	0	Low	1.199	1.690	PASS
Band66	5MHz	132322	QPSK	6	0	Low	1.199	1.600	PASS
Band66	5MHz	132647	QPSK	6	0	High	1.209	1.640	PASS
Band66	5MHz	131997	16QAM	6	0	Low	1.199	1.610	PASS
Band66	5MHz	132322	16QAM	6	0	Low	1.179	1.440	PASS
Band66	5MHz	132647	16QAM	6	0	High	1.209	1.630	PASS
Band66	10MHz	132022	QPSK	6	0	Low	1.798	2.700	PASS
Band66	10MHz	132322	QPSK	6	0	Low	1.299	1.600	PASS
Band66	10MHz	132622	QPSK	6	0	High	1.818	2.880	PASS
Band66	10MHz	132022	16QAM	6	0	Low	1.299	1.660	PASS
Band66	10MHz	132322	16QAM	6	0	Low	1.399	2.120	PASS
Band66	10MHz	132622	16QAM	6	0	High	1.838	2.720	PASS
Band66	15MHz	132047	QPSK	6	0	Low	1.469	1.950	PASS
Band66	15MHz	132322	QPSK	6	0	Low	1.469	1.890	PASS
Band66	15MHz	132597	QPSK	6	0	High	1.558	2.910	PASS
Band66	15MHz	132047	16QAM	6	0	Low	1.528	2.220	PASS
Band66	15MHz	132322	16QAM	6	0	Low	1.528	1.950	PASS
Band66	15MHz	132597	16QAM	6	0	High	1.499	1.950	PASS
Band66	20MHz	132072	QPSK	6	0	Low	3.277	5.080	PASS
Band66	20MHz	132322	QPSK	6	0	Low	3.437	5.280	PASS
Band66	20MHz	132572	QPSK	6	0	High	3.357	5.160	PASS
Band66	20MHz	132072	16QAM	6	0	Low	3.277	5.120	PASS
Band66	20MHz	132322	16QAM	6	0	Low	3.437	5.200	PASS
Band66	20MHz	132572	16QAM	6	0	High	3.357	5.160	PASS
Band85	5MHz	134027	QPSK	6	0	Low	1.159	1.470	PASS
Band85	5MHz	134092	QPSK	6	0	Low	1.189	1.460	PASS
Band85	5MHz	134157	QPSK	6	0	High	1.179	1.640	PASS
Band85	5MHz	134027	16QAM	6	0	Low	1.179	1.470	PASS
Band85	5MHz	134092	16QAM	6	0	Low	1.189	1.550	PASS

Band85	5MHz	134157	16QAM	6	0	High	1.189	1.660	PASS
Band85	10MHz	134052	QPSK	6	0	Low	1.299	1.620	PASS
Band85	10MHz	134092	QPSK	6	0	Low	1.299	1.640	PASS
Band85	10MHz	134132	QPSK	6	0	High	1.319	1.660	PASS
Band85	10MHz	134052	16QAM	6	0	Low	1.319	1.780	PASS
Band85	10MHz	134092	16QAM	6	0	Low	1.359	1.900	PASS
Band85	10MHz	134132	16QAM	6	0	High	1.399	2.100	PASS

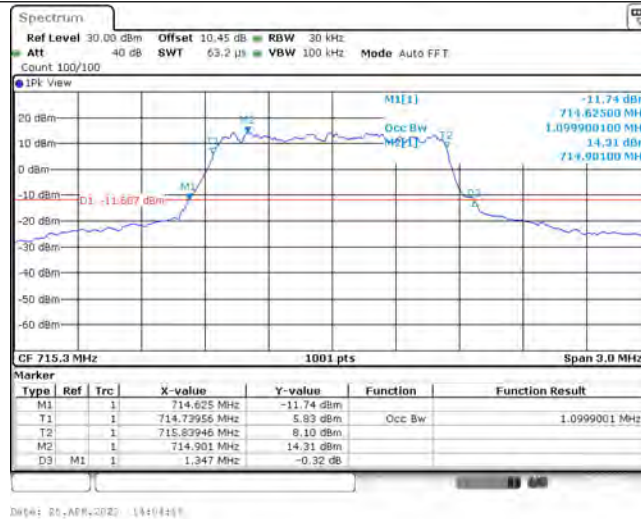
LTE Cat M1 Test Graphs



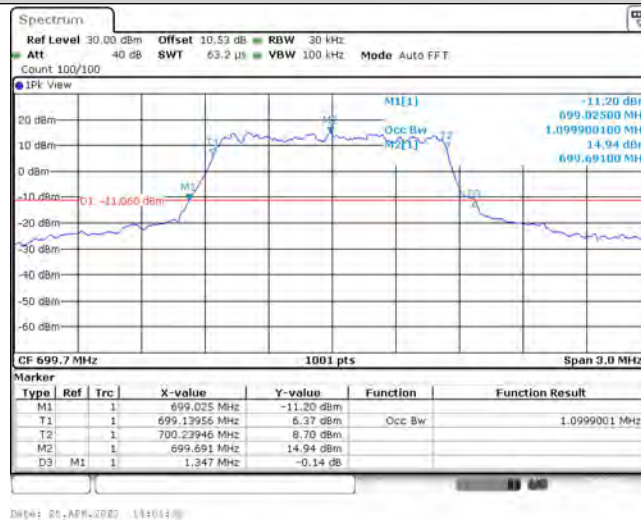
Band12-1.4MHz-QPSK-23017-6-0-Low-1.1-1.347-PASS



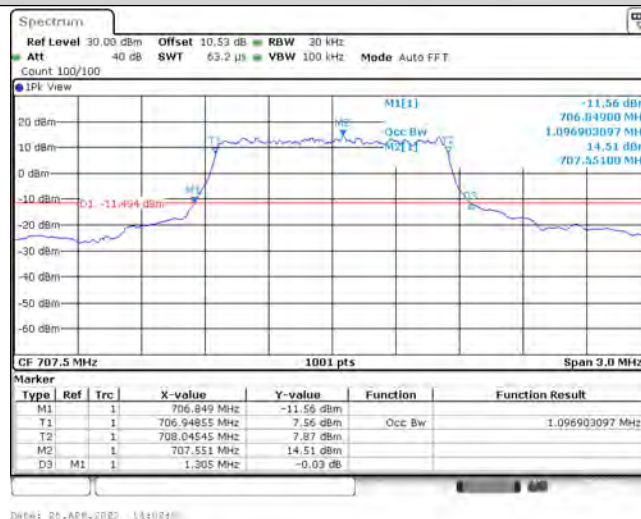
Band12-1.4MHz-QPSK-23095-6-0-Low-1.097-1.305-PASS



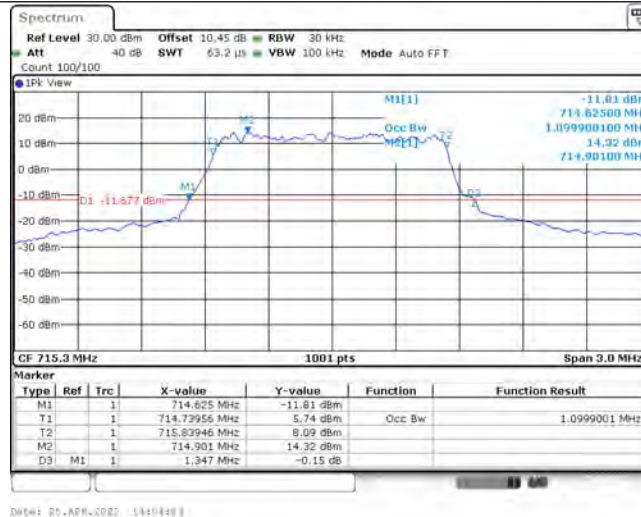
Band12-1.4MHz-QPSK-23173-6-0-High-1.1-1.347-PASS



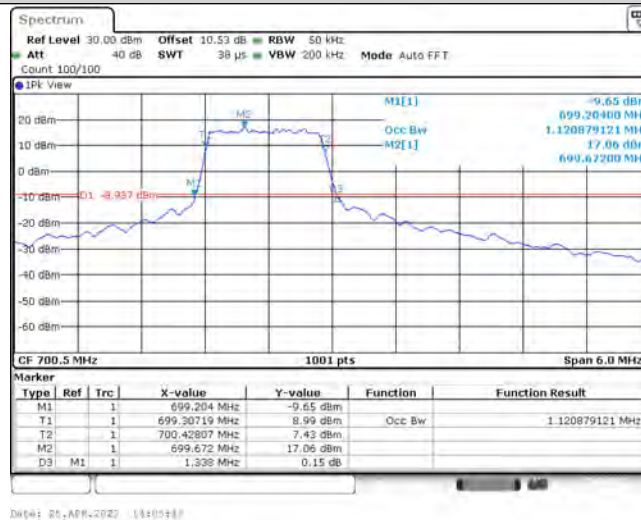
Band12-1.4MHz-16QAM-23017-6-0-Low-1.1-1.347-PASS



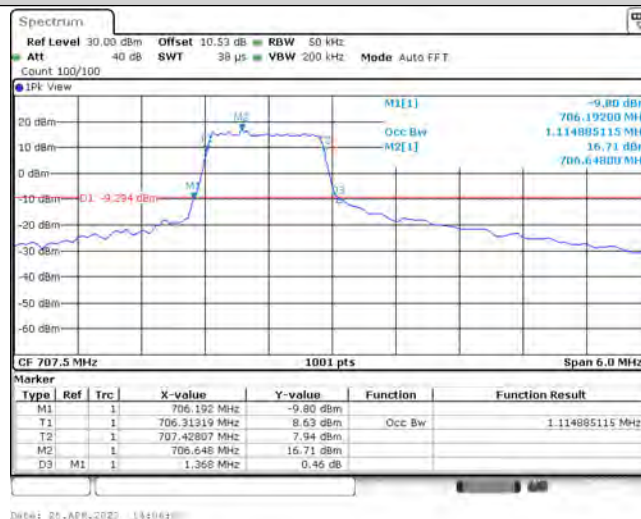
Band12-1.4MHz-16QAM-23095-6-0-Low-1.097-1.305-PASS



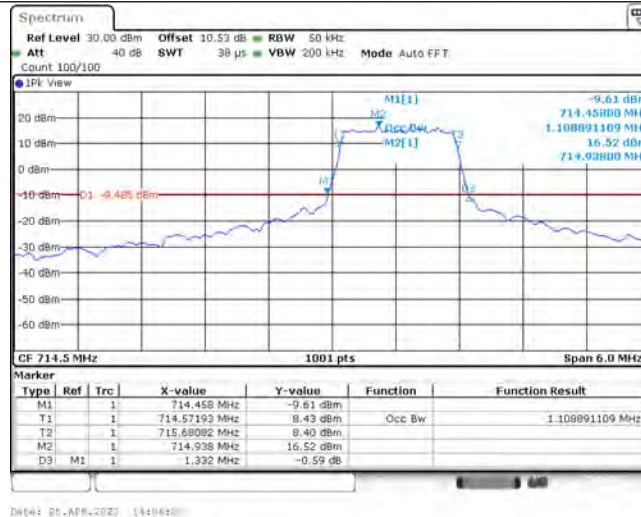
Band12-1.4MHz-16QAM-23173-6-0-High-1.1-1.347-PASS



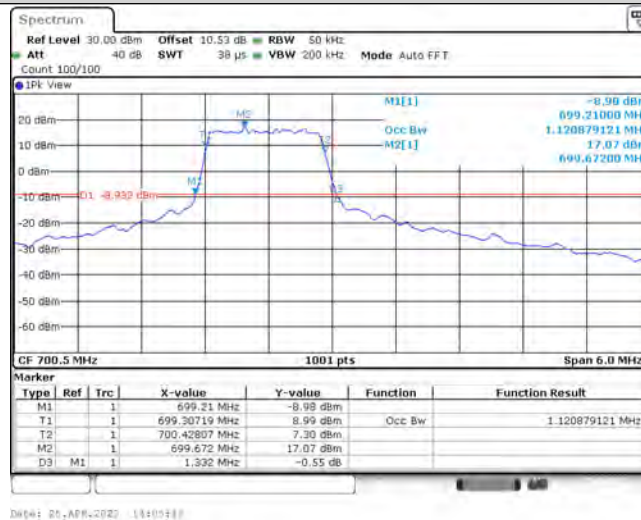
Band12-3MHz-QPSK-23025-6-0-Low-1.121-1.338-PASS



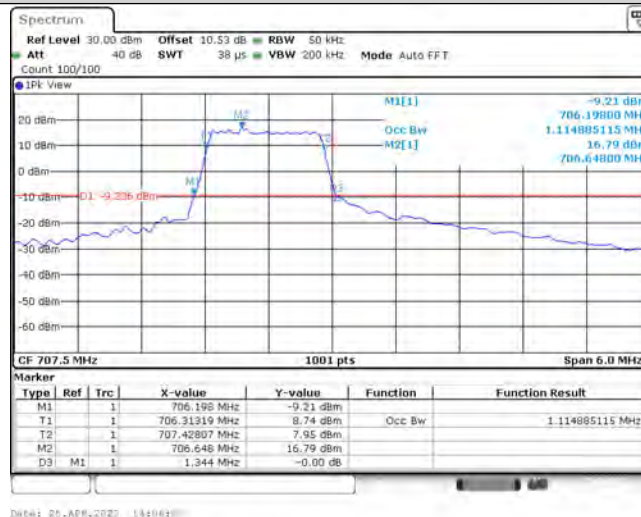
Band12-3MHz-QPSK-23095-6-0-Low-1.115-1.368-PASS



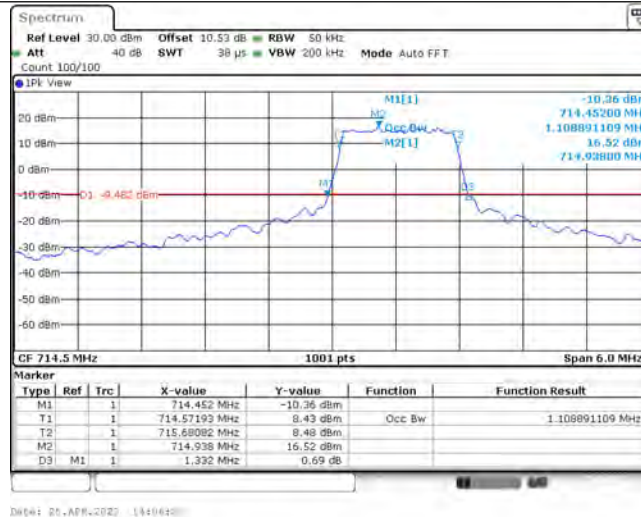
Band12-3MHz-QPSK-23165-6-0-High-1.109-1.332-PASS



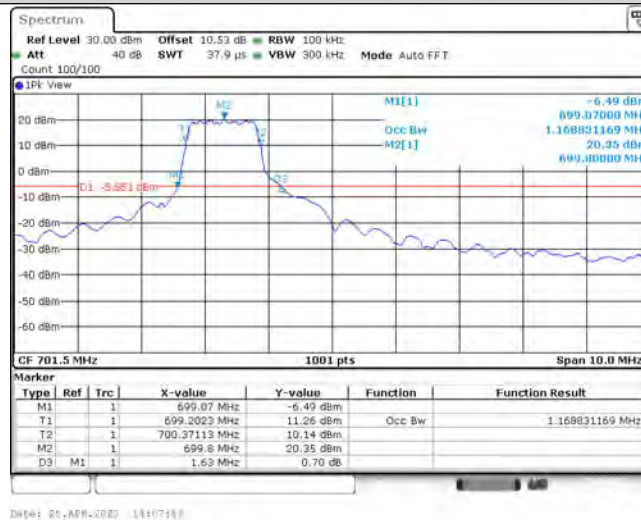
Band12-3MHz-16QAM-23025-6-0-Low-1.121-1.332-PASS



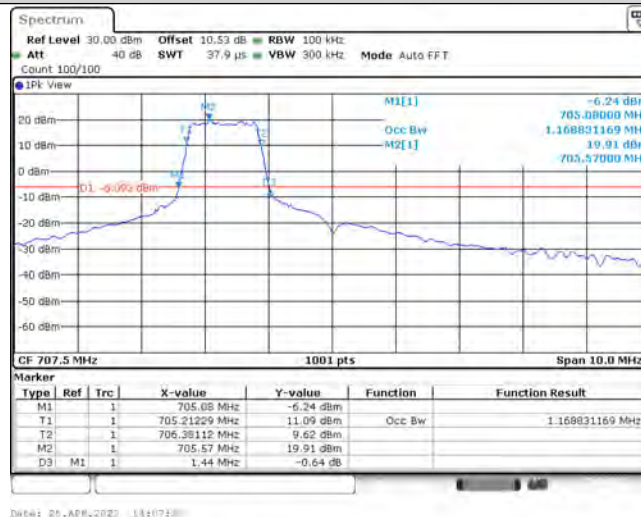
Band12-3MHz-16QAM-23095-6-0-Low-1.115-1.344-PASS



Band12-3MHz-16QAM-23165-6-0-High-1.109-1.332-PASS



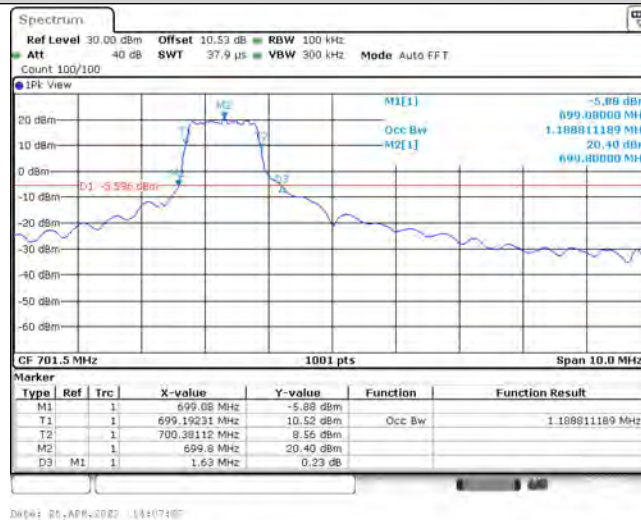
Band12-5MHz-QPSK-23035-6-0-Low-1.169-1.630-PASS



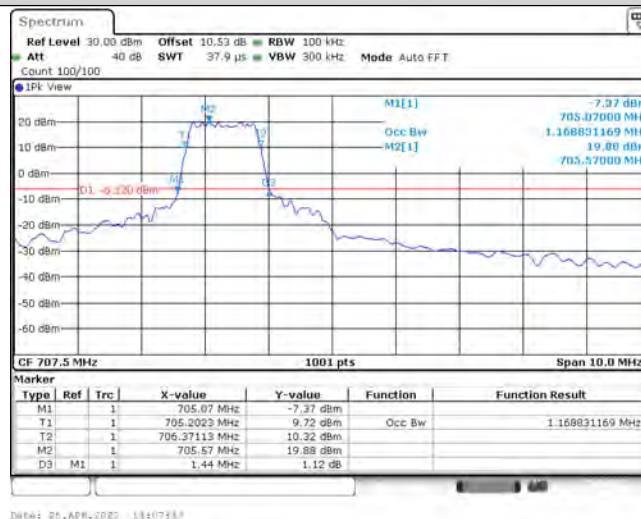
Band12-5MHz-QPSK-23095-6-0-Low-1.169-1.440-PASS



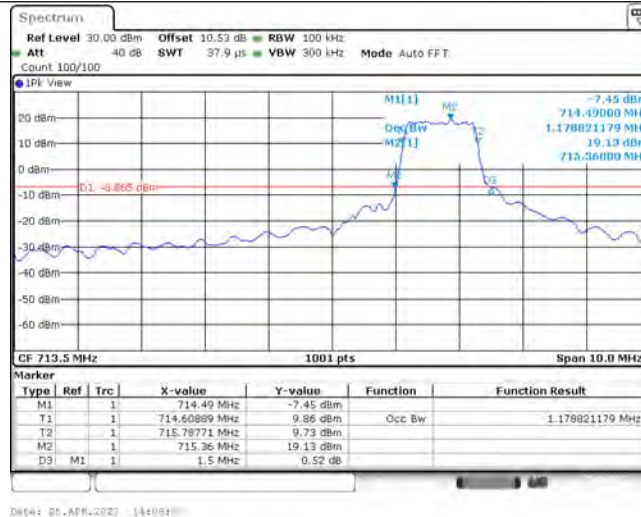
Band12-5MHz-QPSK-23155-6-0-High-1.169-1.590-PASS



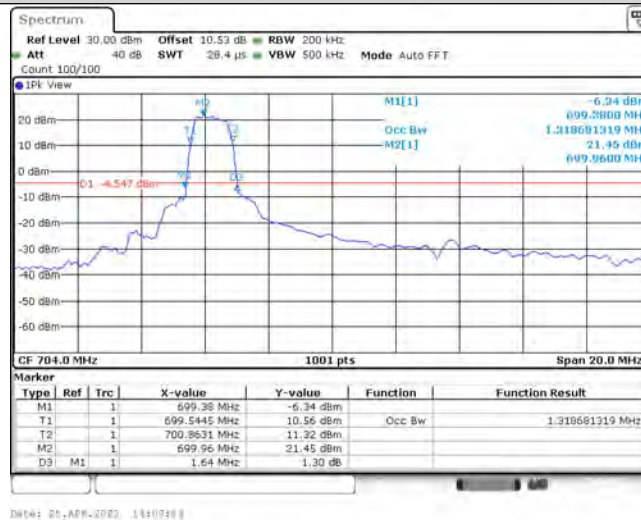
Band12-5MHz-16QAM-23035-6-0-Low-1.189-1.630-PASS



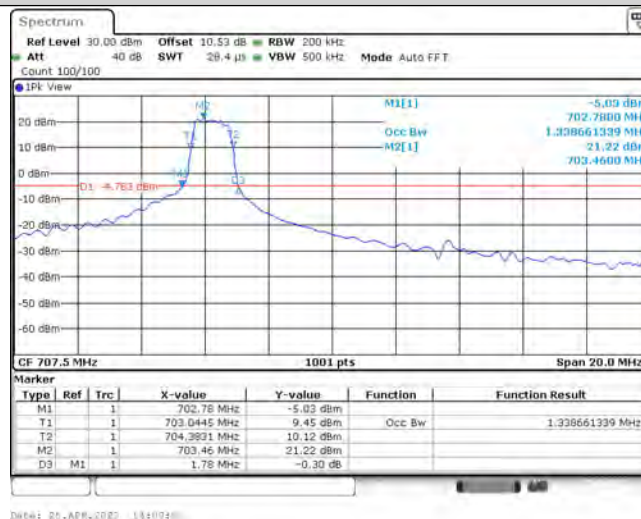
Band12-5MHz-16QAM-23095-6-0-Low-1.169-1.440-PASS



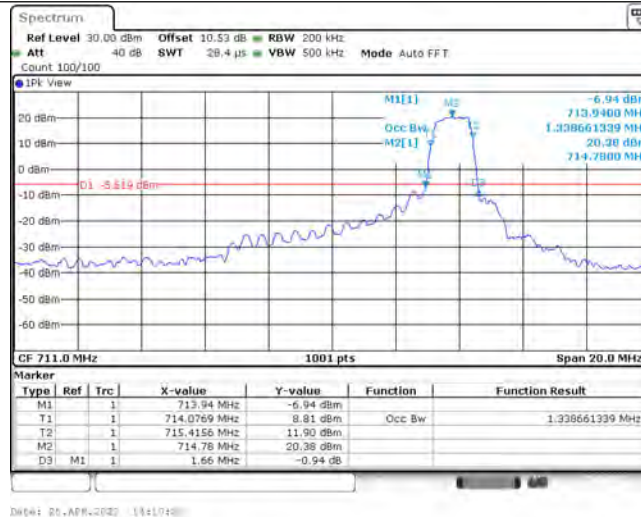
Band12-5MHz-16QAM-23155-6-0-High-1.179-1.500-PASS



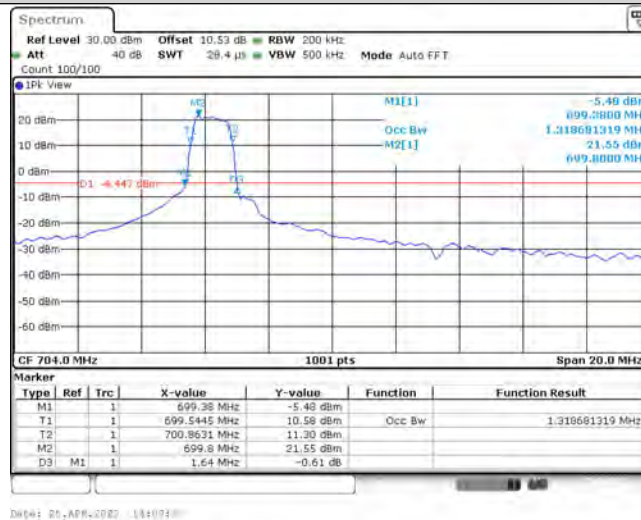
Band12-10MHz-QPSK-23060-6-0-Low-1.319-1.640-PASS



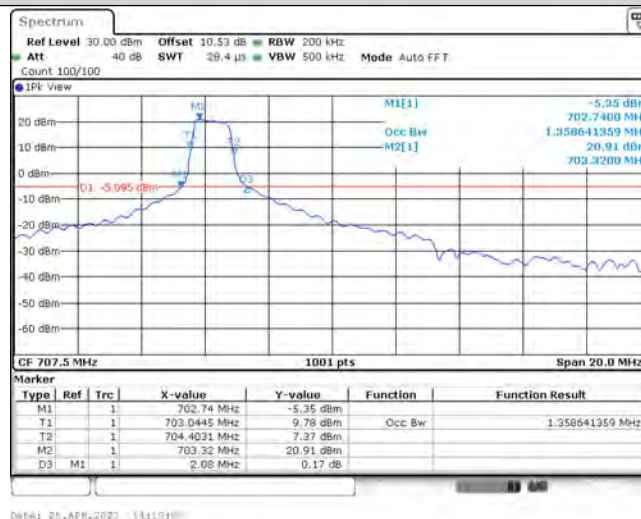
Band12-10MHz-QPSK-23095-6-0-Low-1.339-1.780-PASS



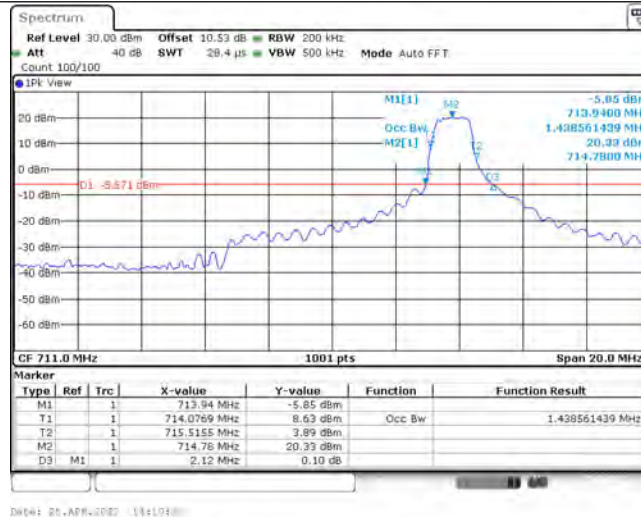
Band12-10MHz-QPSK-23130-6-0-High-1.339-1.660-PASS



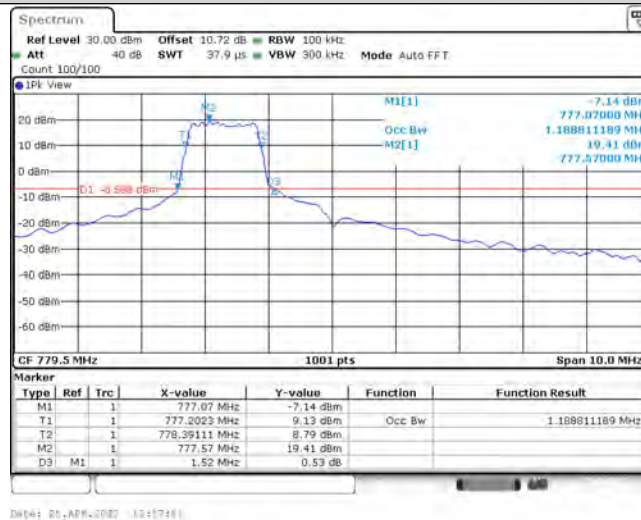
Band12-10MHz-16QAM-23060-6-0-Low-1.319-1.640-PASS



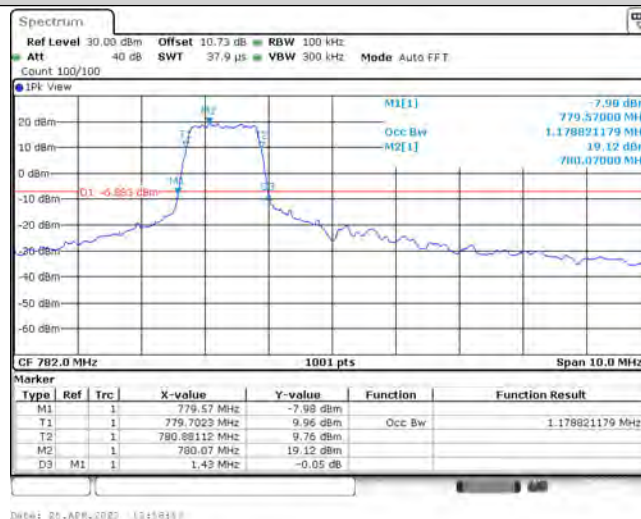
Band12-10MHz-16QAM-23095-6-0-Low-1.359-2.080-PASS



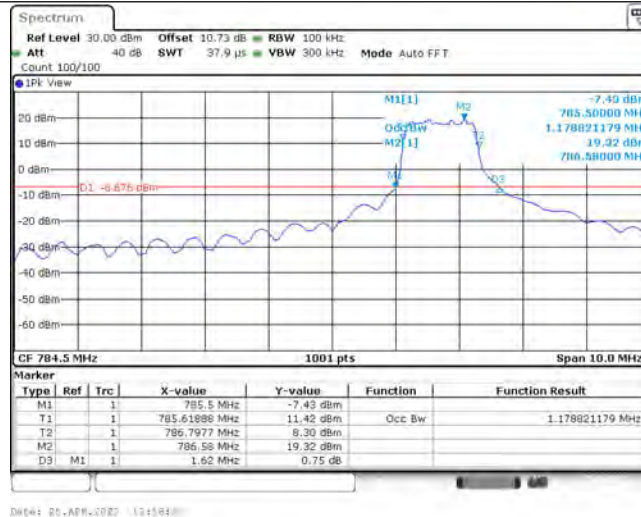
Band12-10MHz-16QAM-23130-6-0-High-1.439-2.120-PASS



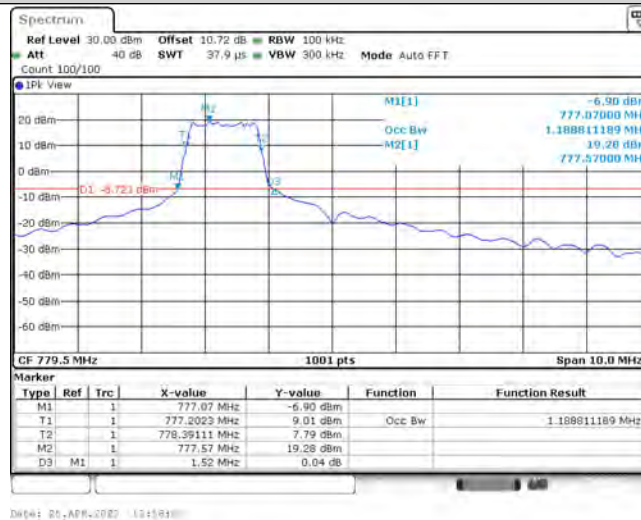
Band13-5MHz-QPSK-23205-6-0-Low-1.189-1.520-PASS



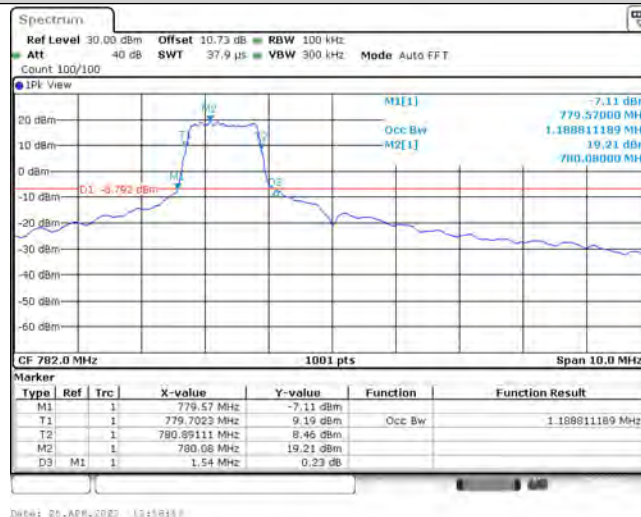
Band13-5MHz-QPSK-23230-6-0-Low-1.179-1.430-PASS



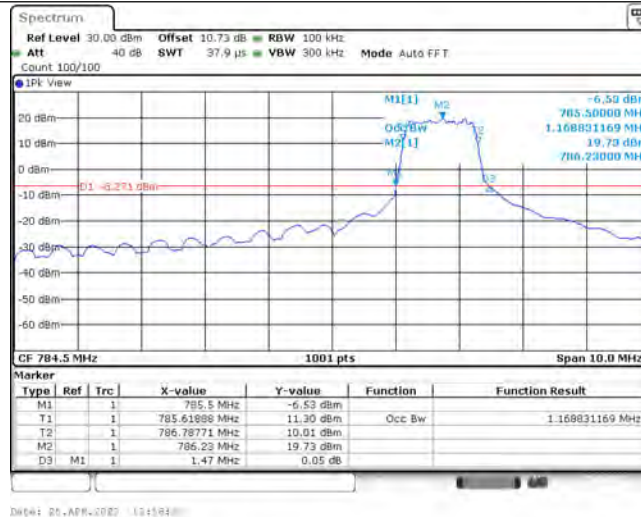
Band13-5MHz-QPSK-23255-6-0-High-1.179-1.620-PASS



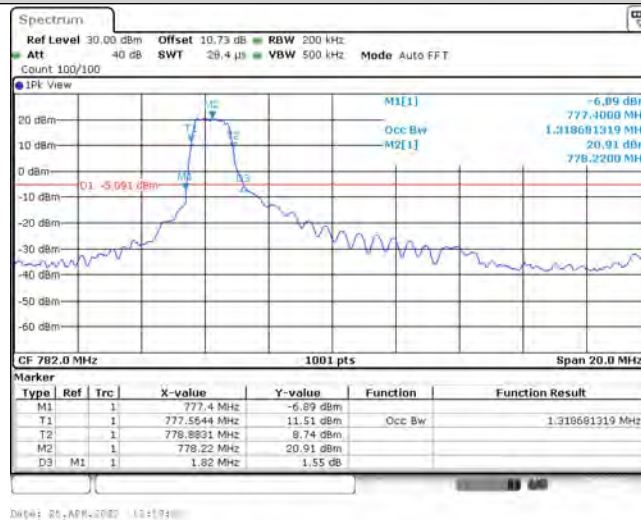
Band13-5MHz-16QAM-23205-6-0-Low-1.189-1.520-PASS



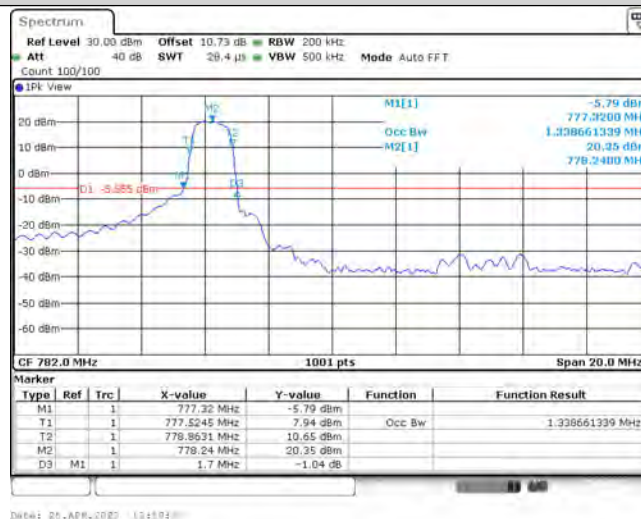
Band13-5MHz-16QAM-23230-6-0-Low-1.189-1.540-PASS



Band13-5MHz-16QAM-23255-6-0-High-1.169-1.470-PASS



Band13-10MHz-QPSK-23230-6-0-Low-1.319-1.820-PASS



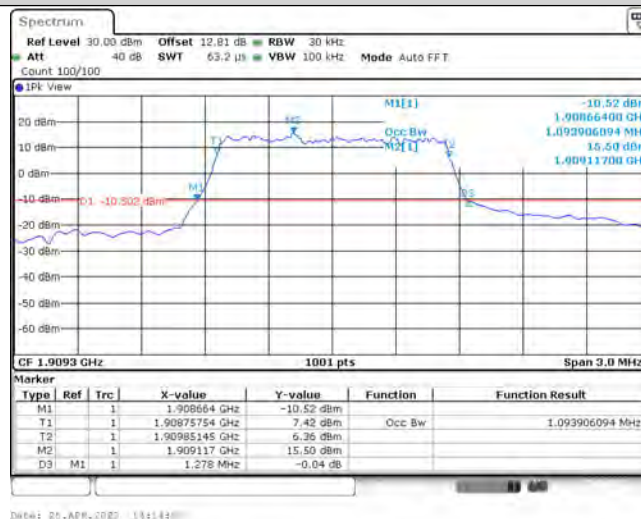
Band13-10MHz-16QAM-23230-6-0-Low-1.339-1.700-PASS



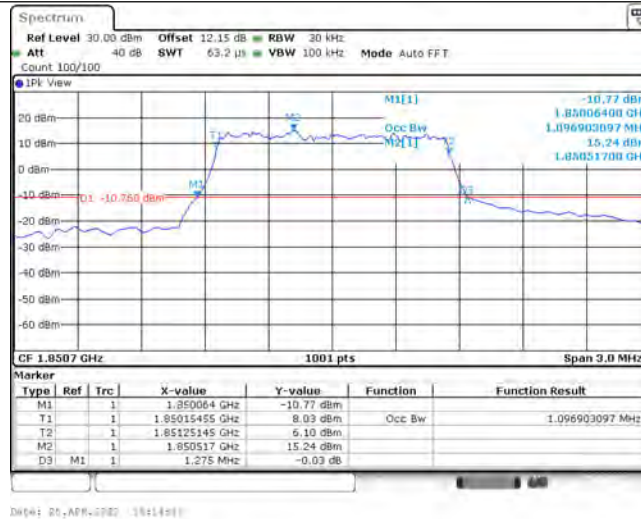
Band2-1.4MHz-QPSK-18607-6-0-Low-1.094-1.278-PASS



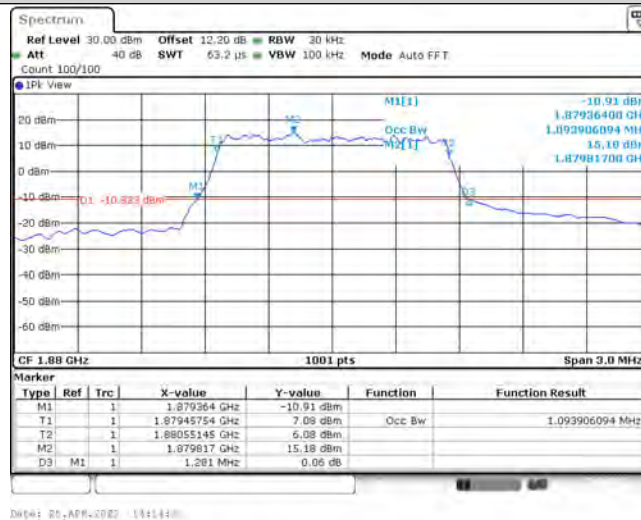
Band2-1.4MHz-QPSK-18900-6-0-Low-1.094-1.284-PASS



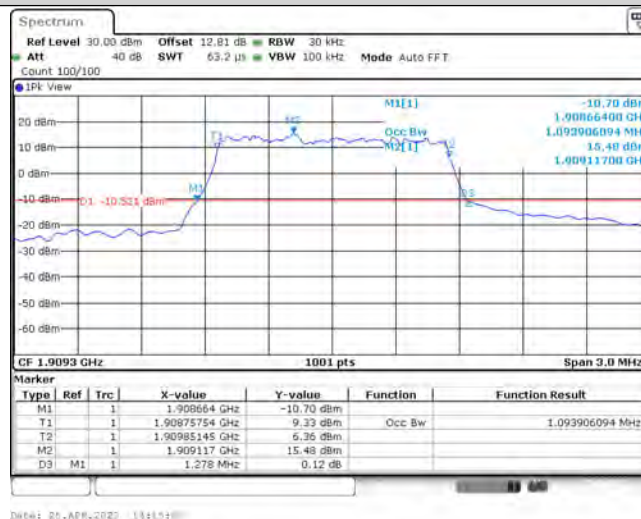
Band2-1.4MHz-QPSK-19193-6-0-High-1.094-1.278-PASS



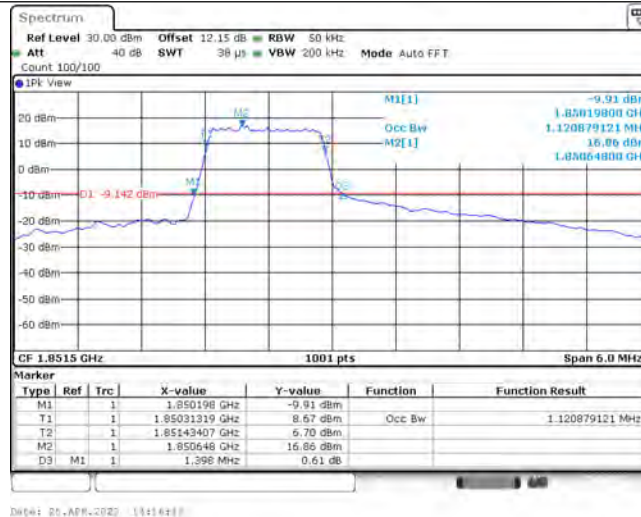
Band2-1.4MHz-16QAM-18607-6-0-Low-1.097-1.275-PASS



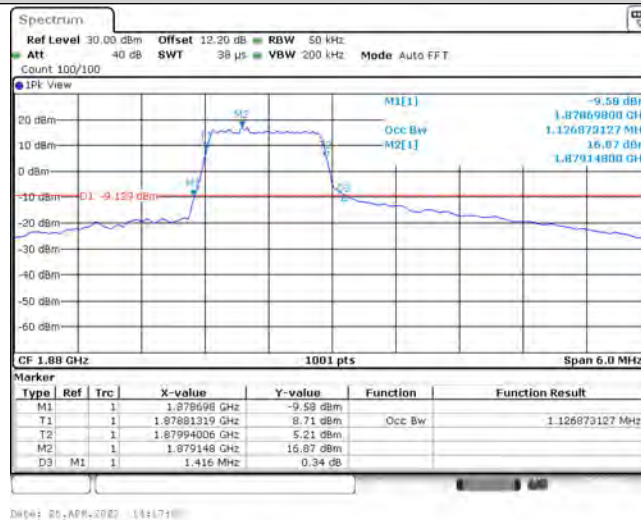
Band2-1.4MHz-16QAM-18900-6-0-Low-1.094-1.281-PASS



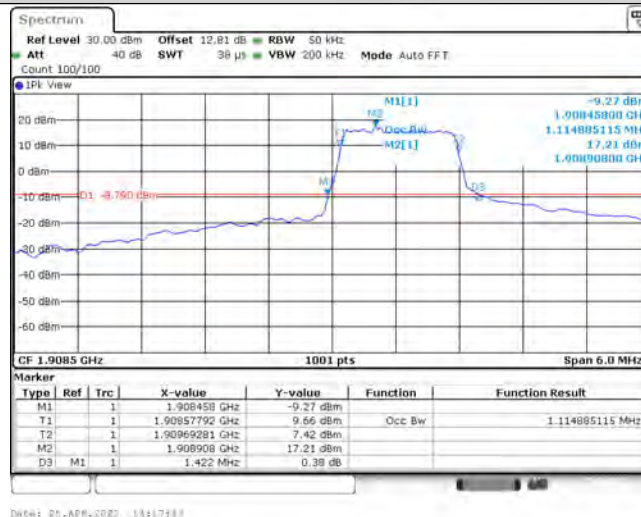
Band2-1.4MHz-16QAM-19193-6-0-High-1.094-1.278-PASS



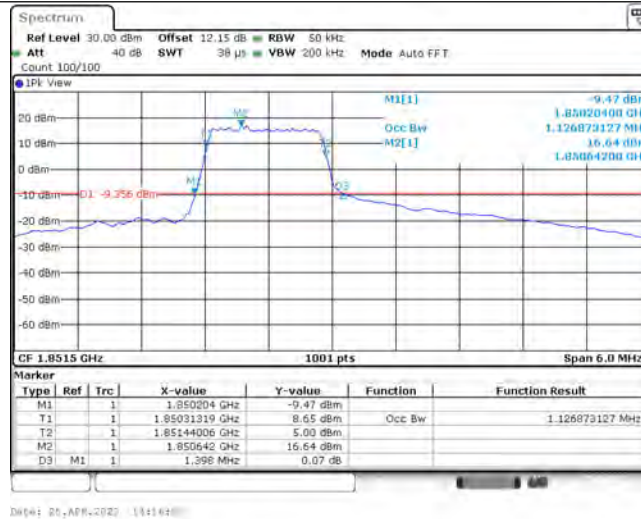
Band2-3MHz-QPSK-18615-6-0-Low-1.121-1.398-PASS



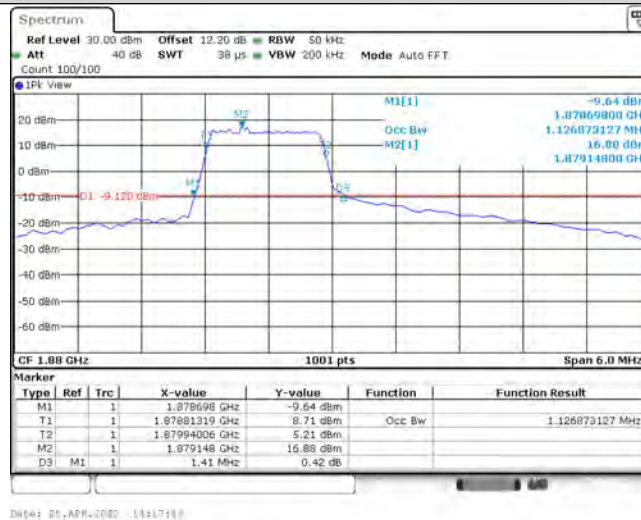
Band2-3MHz-QPSK-18900-6-0-Low-1.127-1.416-PASS



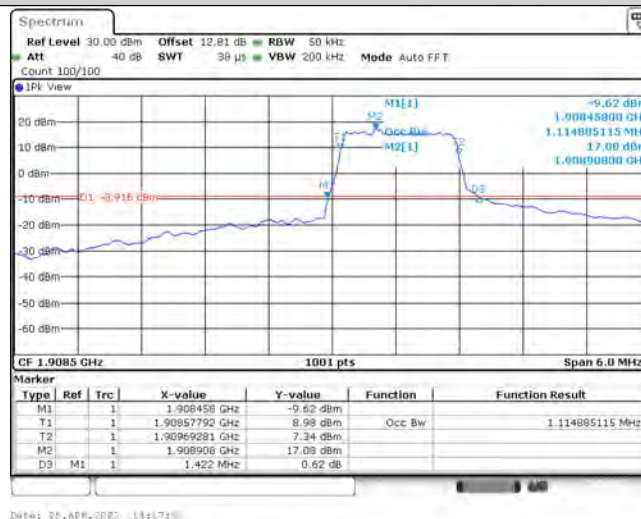
Band2-3MHz-QPSK-19185-6-0-High-1.115-1.422-PASS



Band2-3MHz-16QAM-18615-6-0-Low-1.127-1.398-PASS



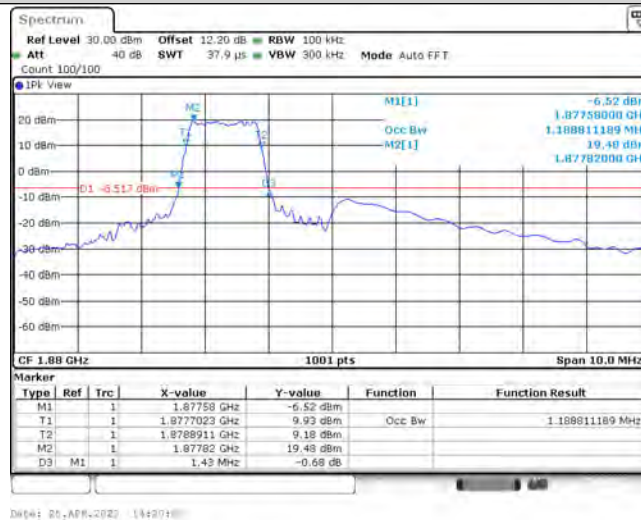
Band2-3MHz-16QAM-18900-6-0-Low-1.127-1.410-PASS



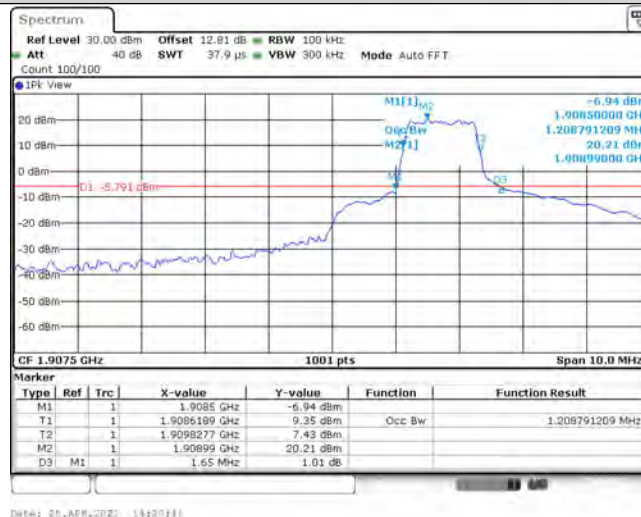
Band2-3MHz-16QAM-19185-6-0-High-1.115-1.422-PASS



Band2-5MHz-QPSK-18625-6-0-Low-1.189-1.640-PASS



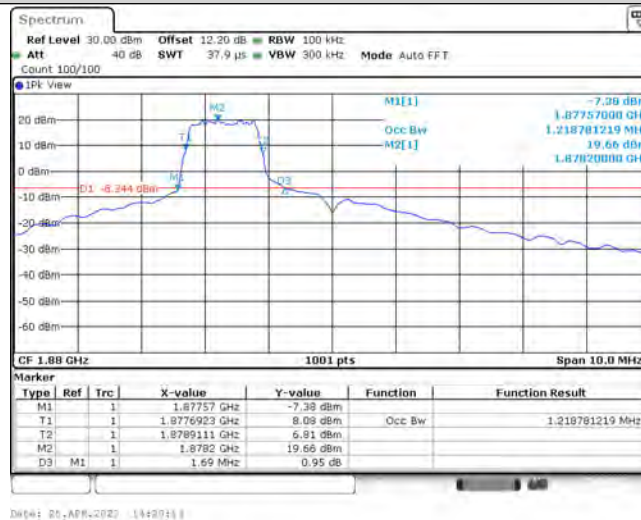
Band2-5MHz-QPSK-18900-6-0-Low-1.189-1.430-PASS



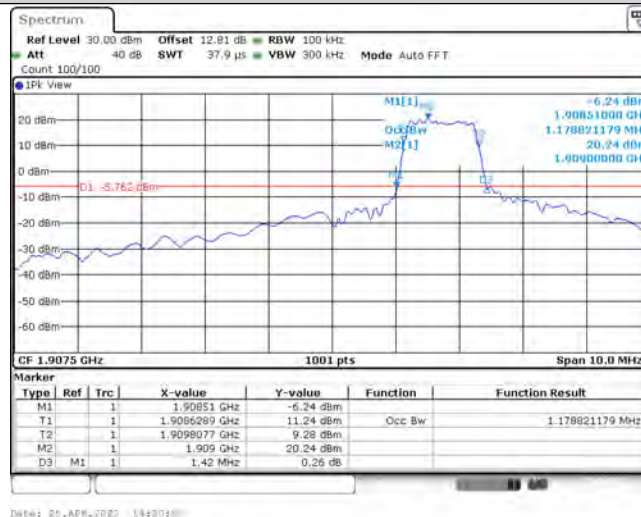
Band2-5MHz-QPSK-19175-6-0-High-1.209-1.650-PASS



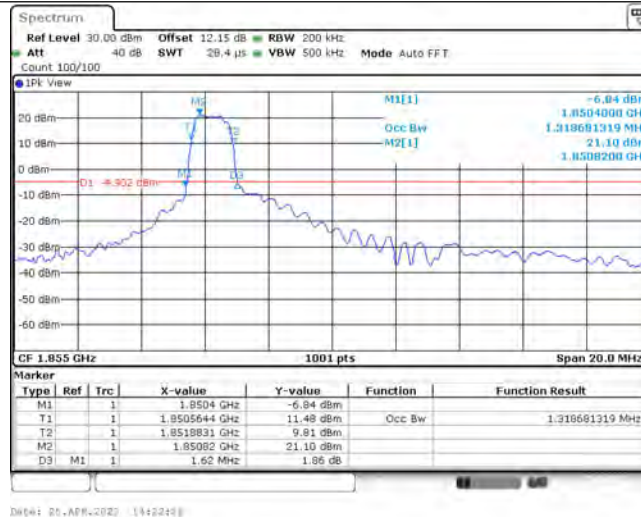
Band2-5MHz-16QAM-18625-6-0-Low-1.169-1.430-PASS



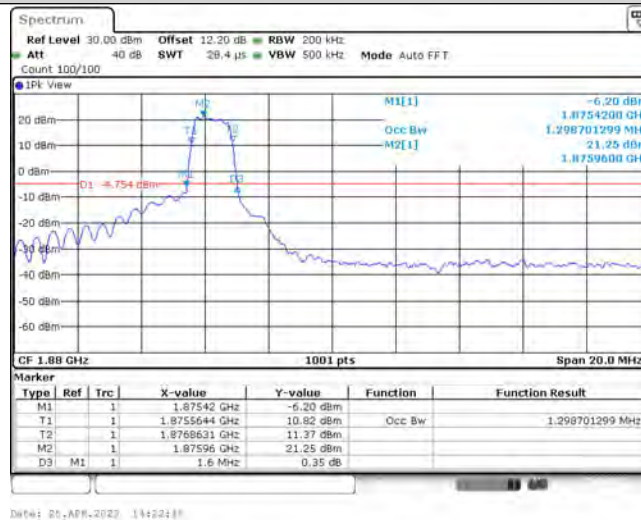
Band2-5MHz-16QAM-18900-6-0-Low-1.219-1.690-PASS



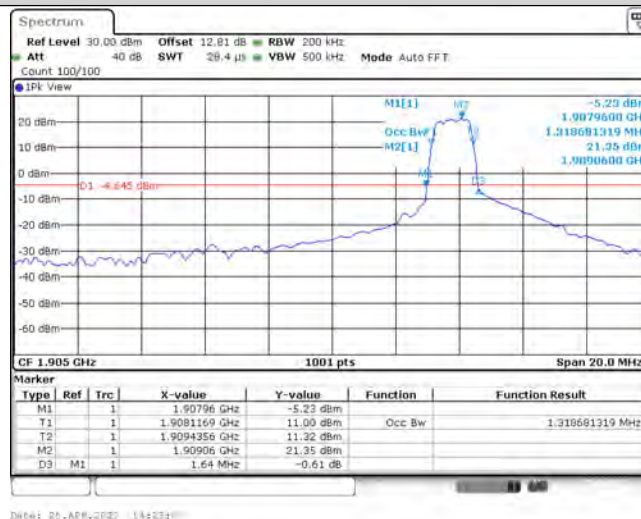
Band2-5MHz-16QAM-19175-6-0-High-1.179-1.420-PASS



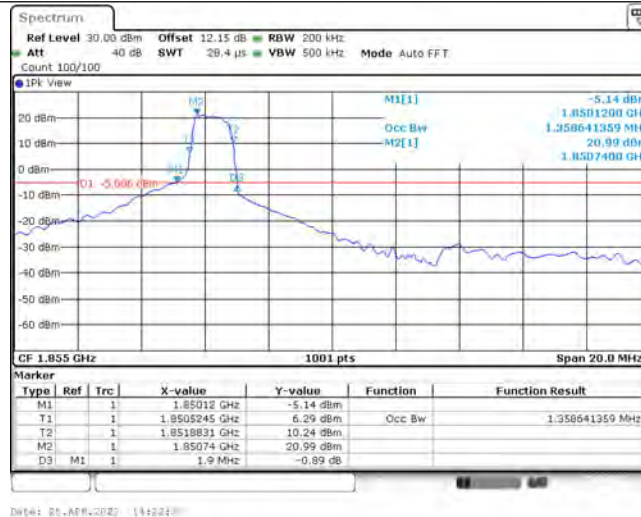
Band2-10MHz-QPSK-18650-6-0-Low-1.319-1.620-PASS



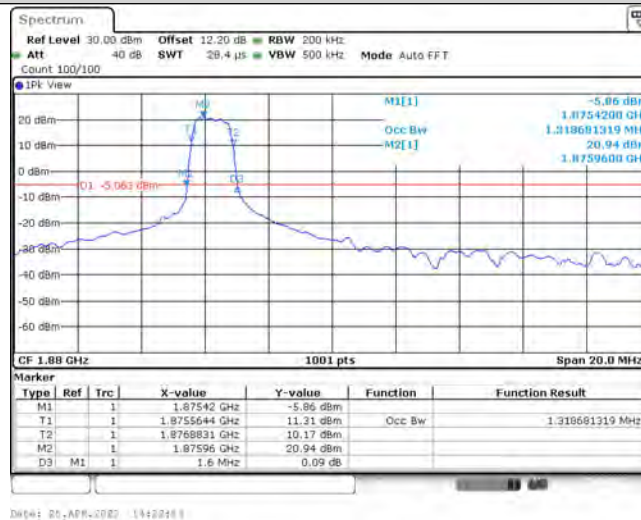
Band2-10MHz-QPSK-18900-6-0-Low-1.299-1.600-PASS



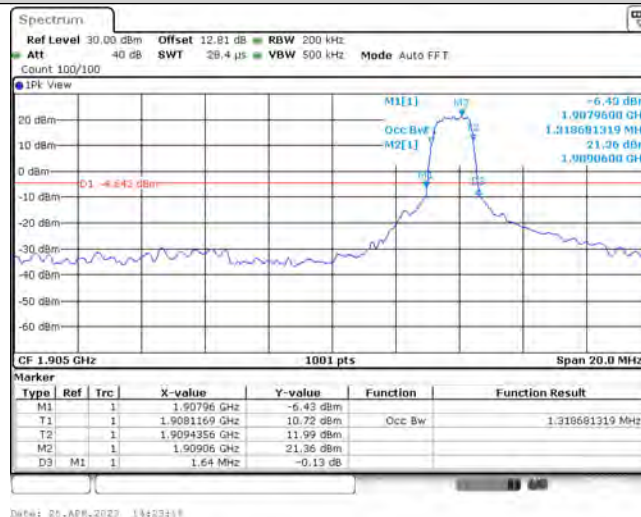
Band2-10MHz-QPSK-19150-6-0-High-1.319-1.640-PASS



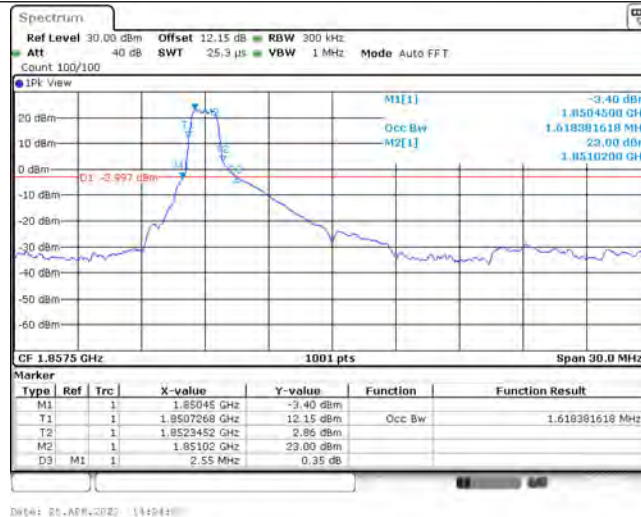
Band2-10MHz-16QAM-18650-6-0-Low-1.359-1.900-PASS



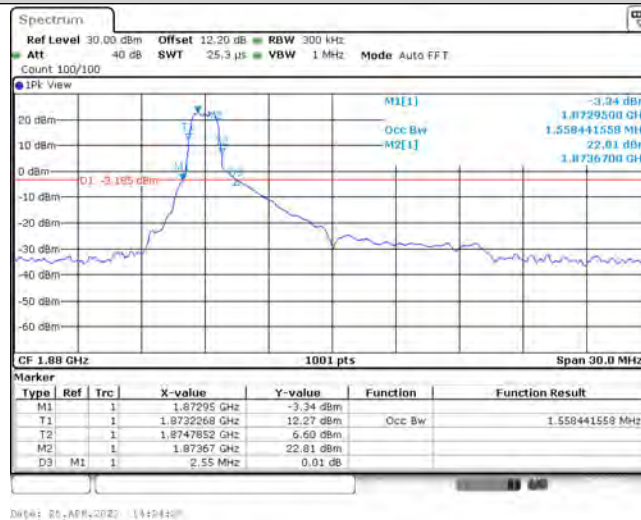
Band2-10MHz-16QAM-18900-6-0-Low-1.319-1.600-PASS



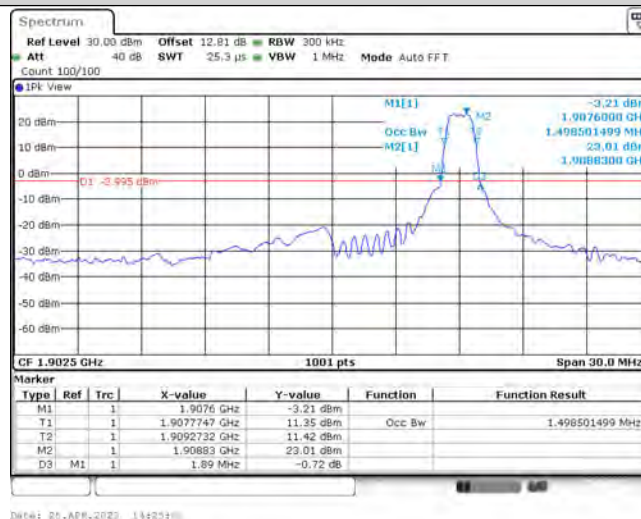
Band2-10MHz-16QAM-19150-6-0-High-1.319-1.640-PASS



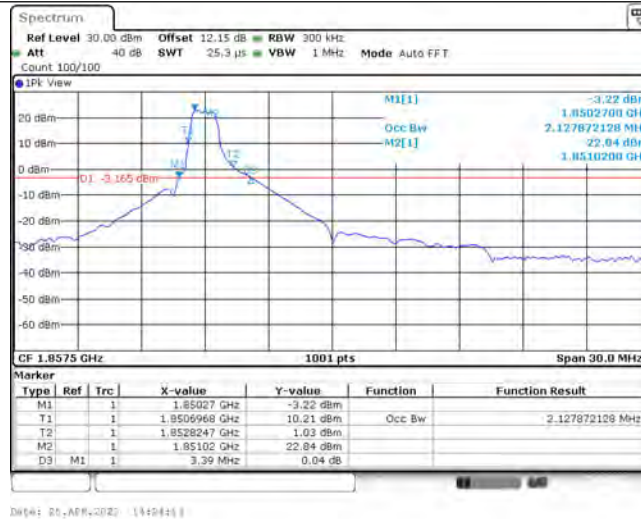
Band2-15MHz-QPSK-18675-6-0-Low-1.618-2.550-PASS



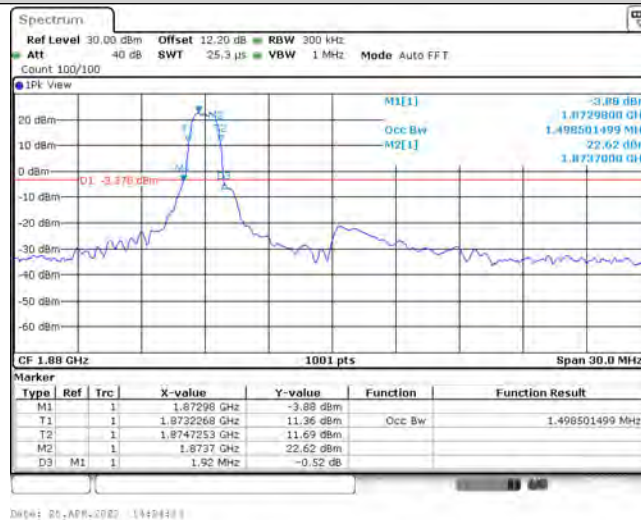
Band2-15MHz-QPSK-18900-6-0-Low-1.558-2.550-PASS



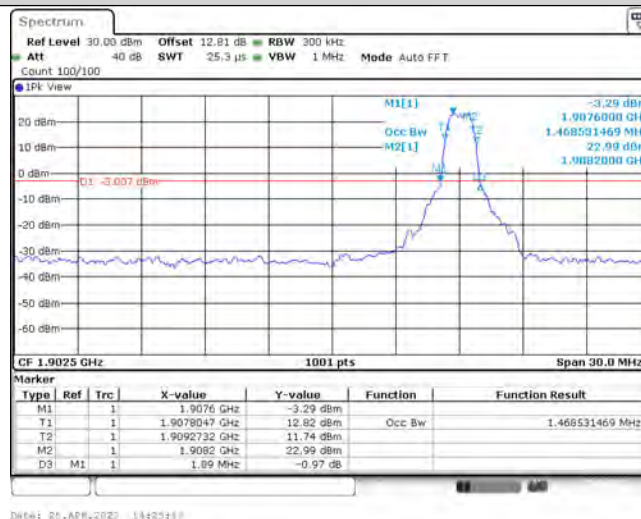
Band2-15MHz-QPSK-19125-6-0-High-1.499-1.890-PASS



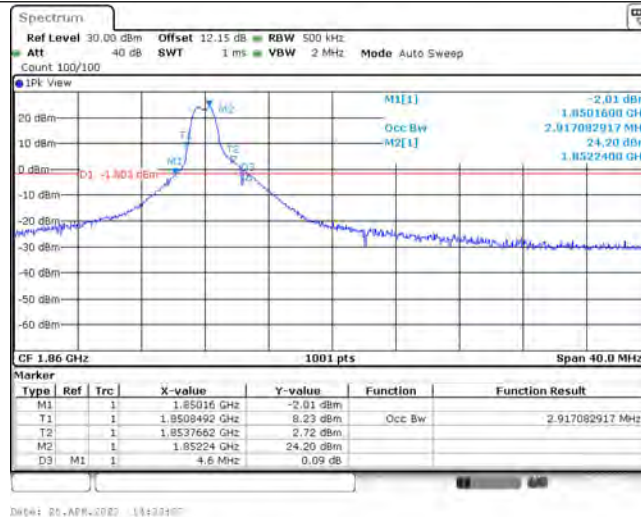
Band2-15MHz-16QAM-18675-6-0-Low-2.128-3.390-PASS



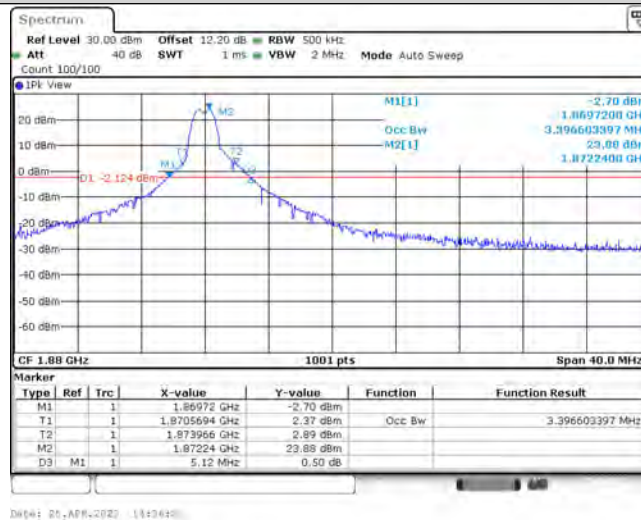
Band2-15MHz-16QAM-18900-6-0-Low-1.499-1.920-PASS



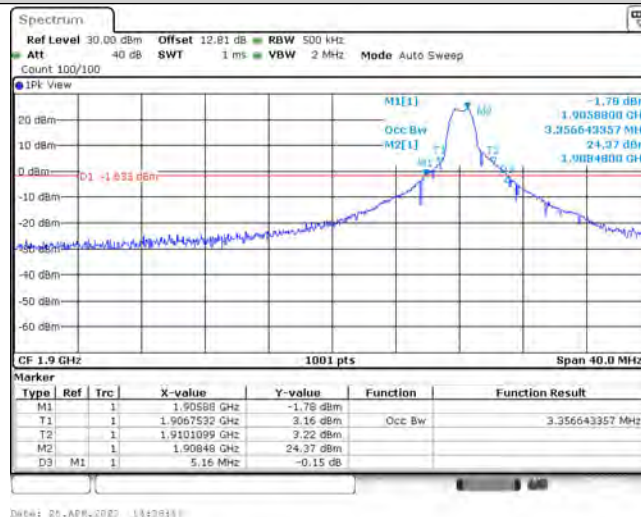
Band2-15MHz-16QAM-19125-6-0-High-1.469-1.890-PASS



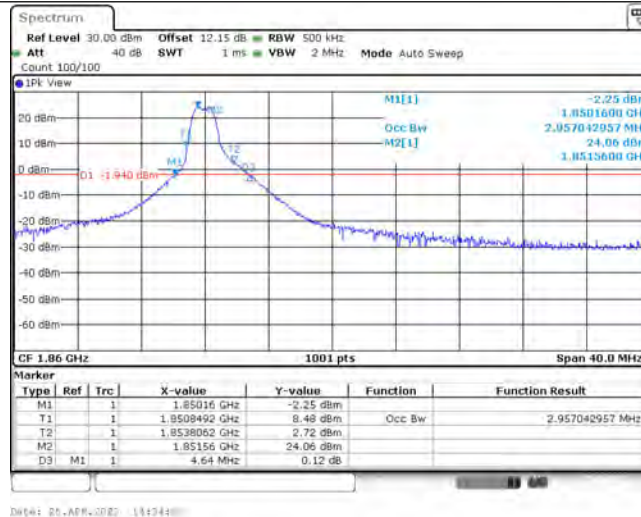
Band2-20MHz-QPSK-18700-6-0-Low-2.917-4.600-PASS



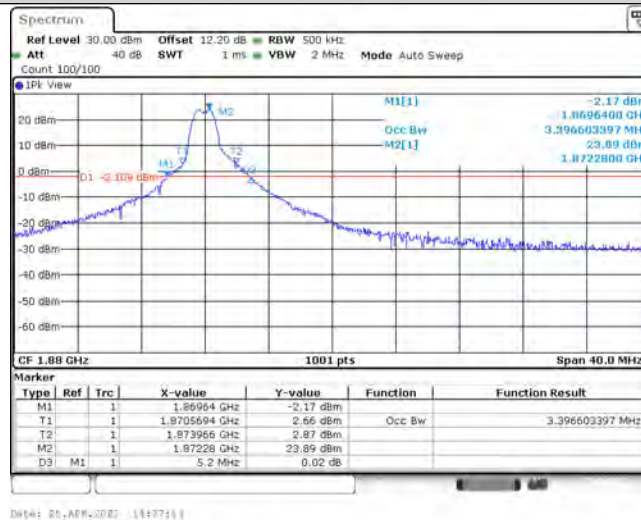
Band2-20MHz-QPSK-18900-6-0-Low-3.397-5.120-PASS



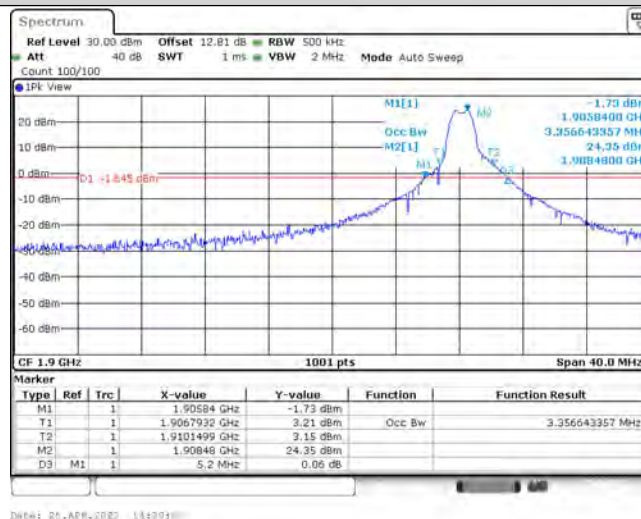
Band2-20MHz-QPSK-19100-6-0-High-3.357-5.160-PASS



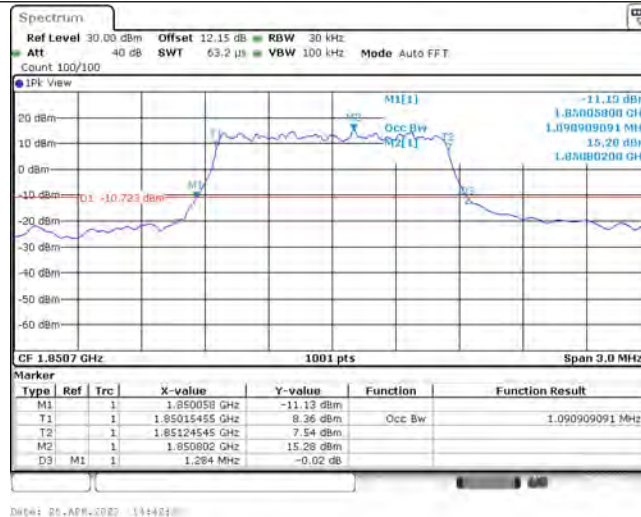
Band2-20MHz-16QAM-18700-6-0-Low-2.957-4.640-PASS



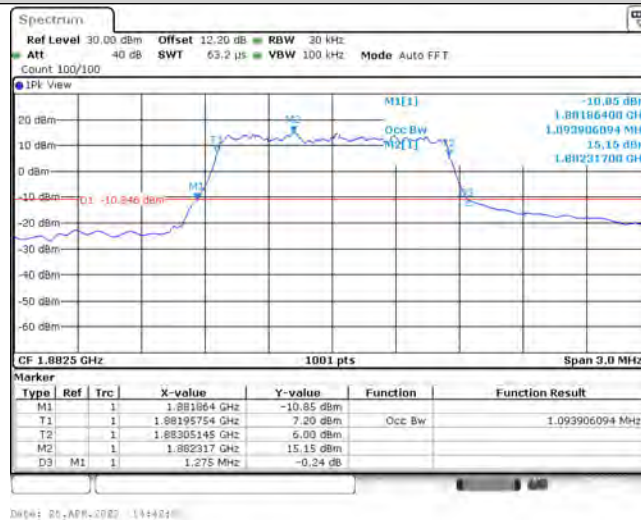
Band2-20MHz-16QAM-18900-6-0-Low-3.397-5.200-PASS



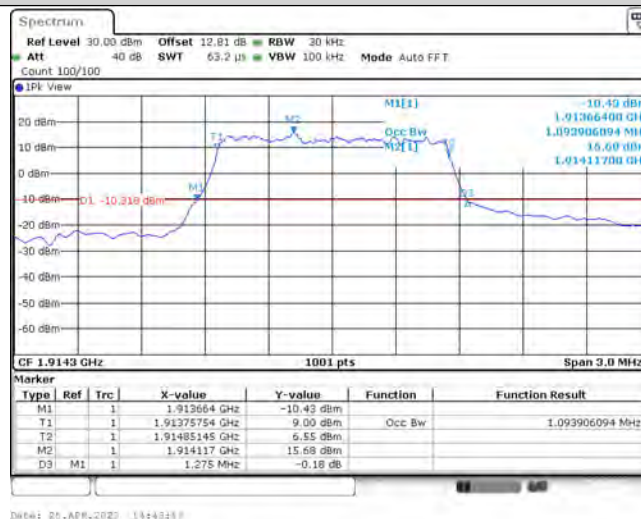
Band2-20MHz-16QAM-19100-6-0-High-3.357-5.200-PASS



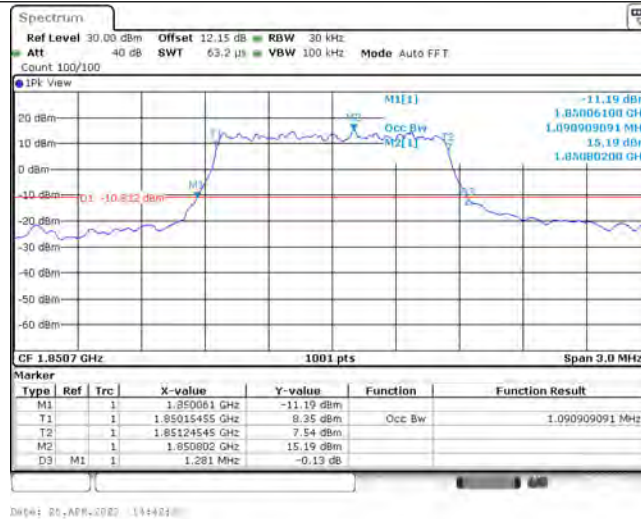
Band25-1.4MHz-QPSK-26047-6-0-Low-1.091-1.284-PASS



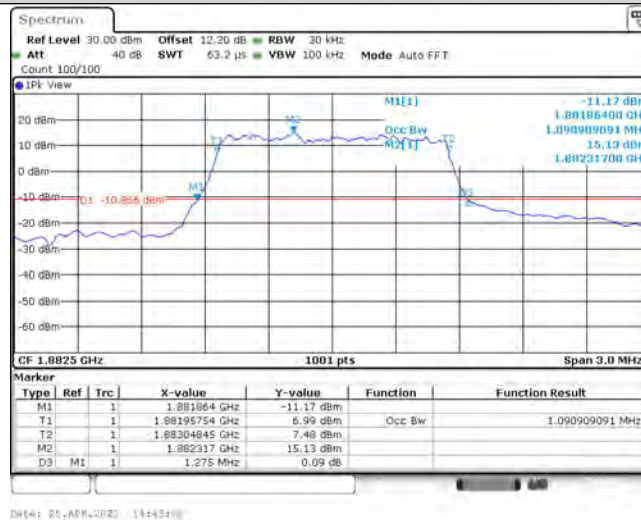
Band25-1.4MHz-QPSK-26365-6-0-Low-1.094-1.275-PASS



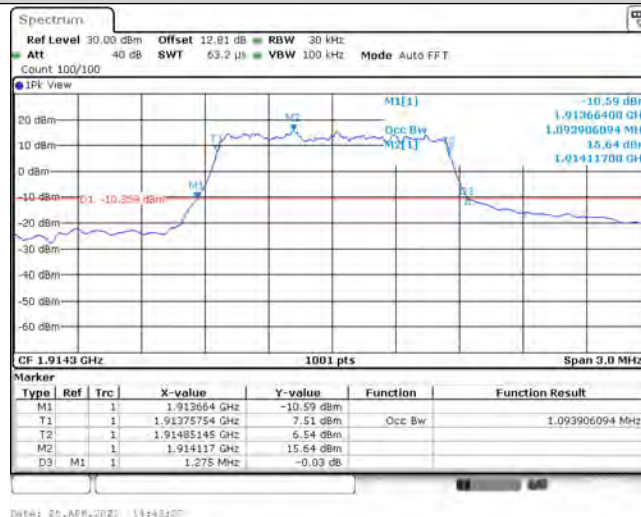
Band25-1.4MHz-QPSK-26683-6-0-High-1.094-1.275-PASS



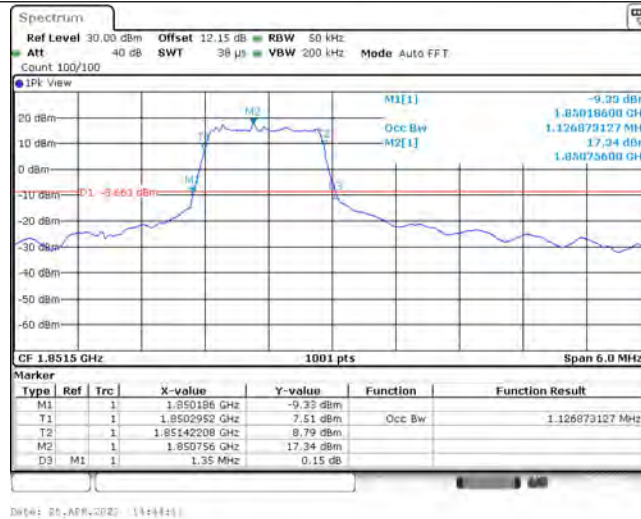
Band25-1.4MHz-16QAM-26047-6-0-Low-1.091-1.281-PASS



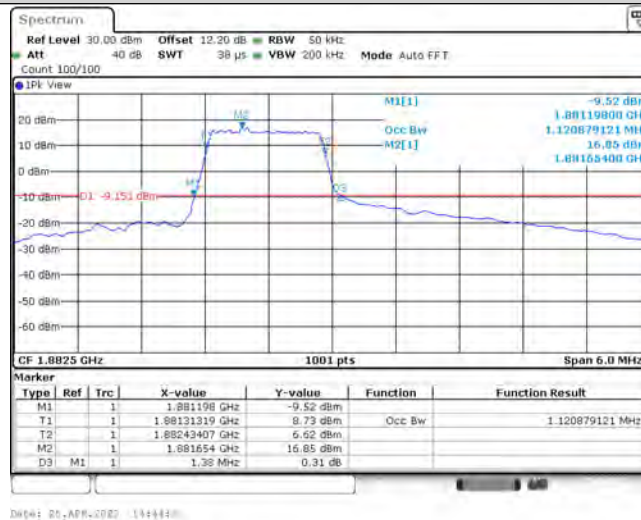
Band25-1.4MHz-16QAM-26365-6-0-Low-1.091-1.275-PASS



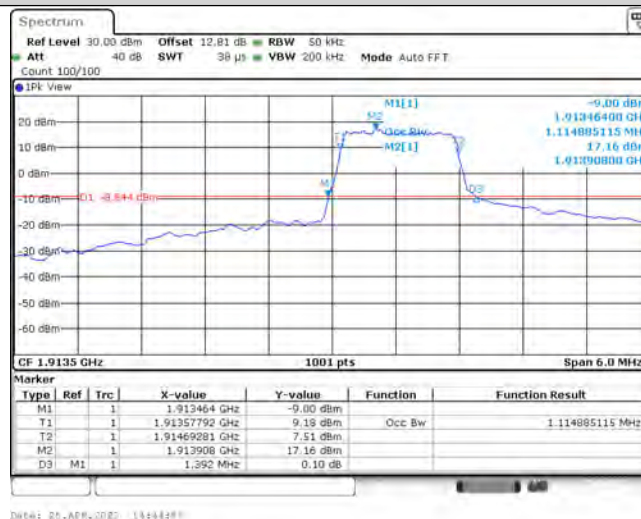
Band25-1.4MHz-16QAM-26683-6-0-High-1.094-1.275-PASS



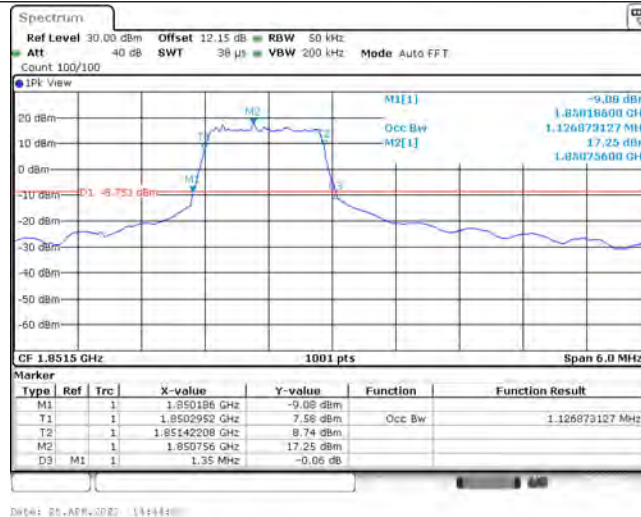
Band25-3MHz-QPSK-26055-6-0-Low-1.127-1.350-PASS



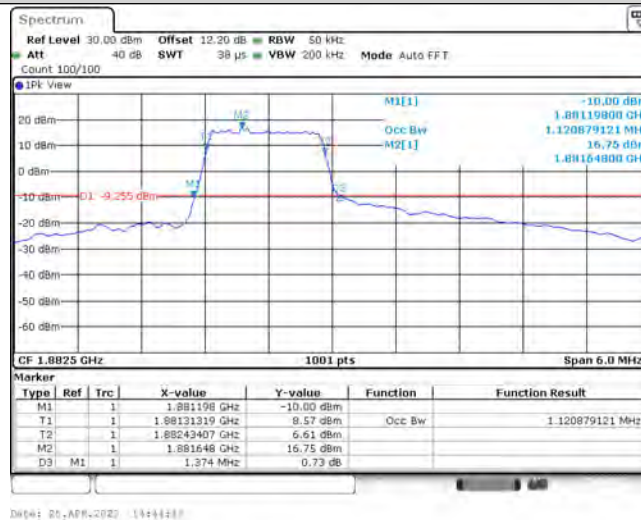
Band25-3MHz-QPSK-26365-6-0-Low-1.121-1.380-PASS



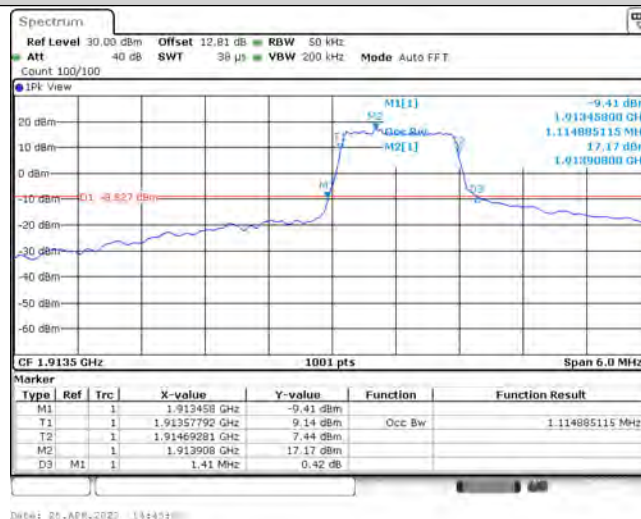
Band25-3MHz-QPSK-26675-6-0-High-1.115-1.392-PASS



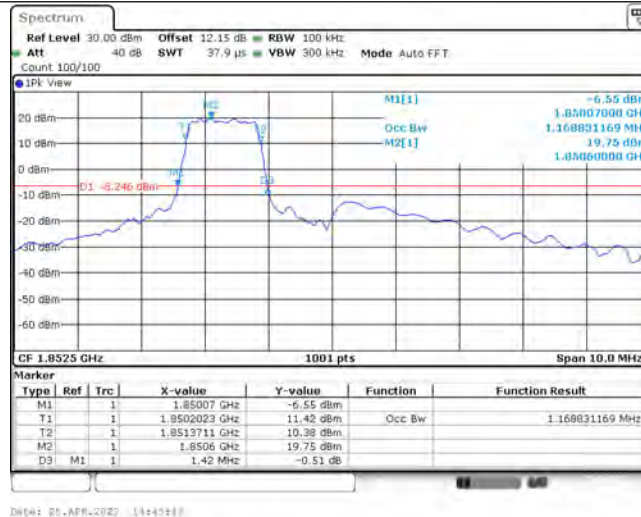
Band25-3MHz-16QAM-26055-6-0-Low-1.127-1.350-PASS



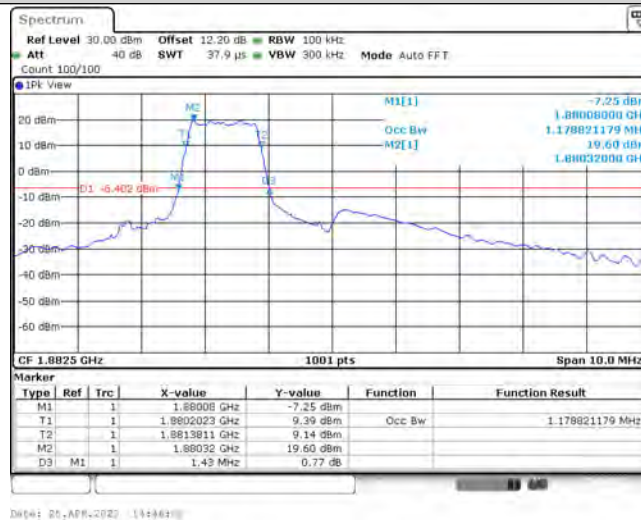
Band25-3MHz-16QAM-26365-6-0-Low-1.121-1.374-PASS



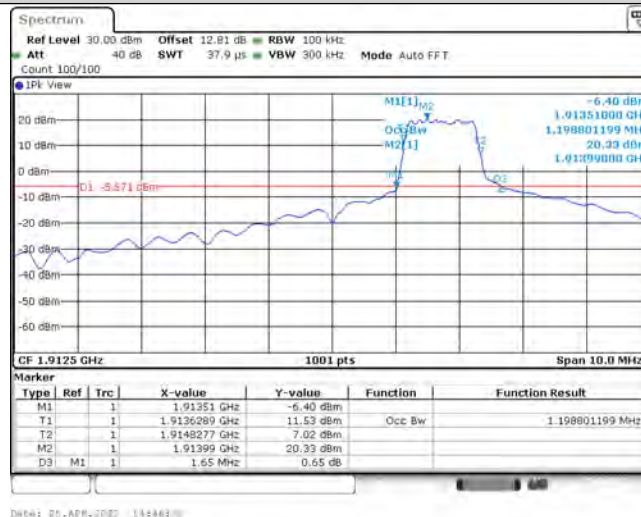
Band25-3MHz-16QAM-26675-6-0-High-1.115-1.410-PASS



Band25-5MHz-QPSK-26065-6-0-Low-1.169-1.420-PASS



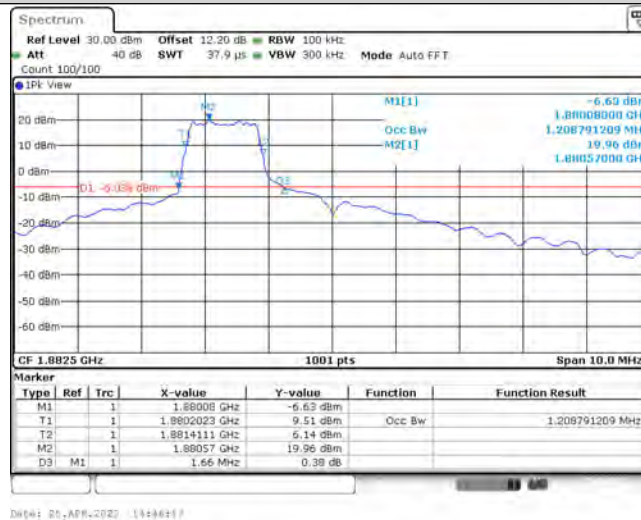
Band25-5MHz-QPSK-26365-6-0-Low-1.179-1.430-PASS



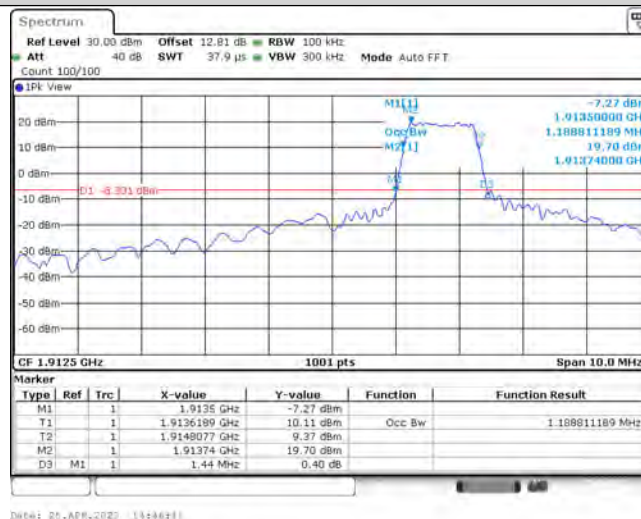
Band25-5MHz-QPSK-26665-6-0-High-1.199-1.650-PASS



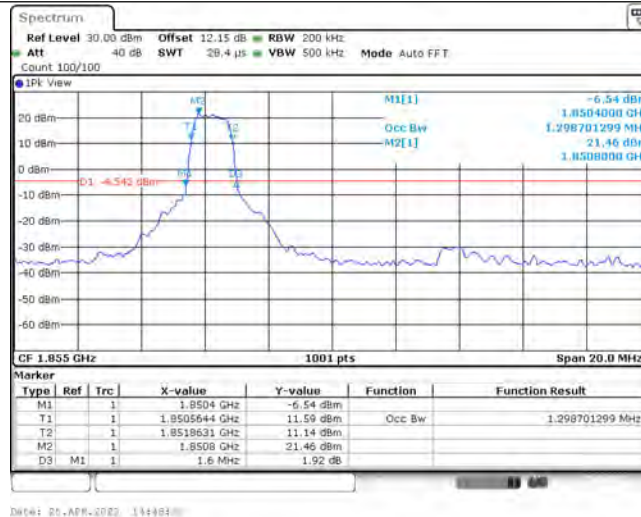
Band25-5MHz-16QAM-26065-6-0-Low-1.179-1.670-PASS



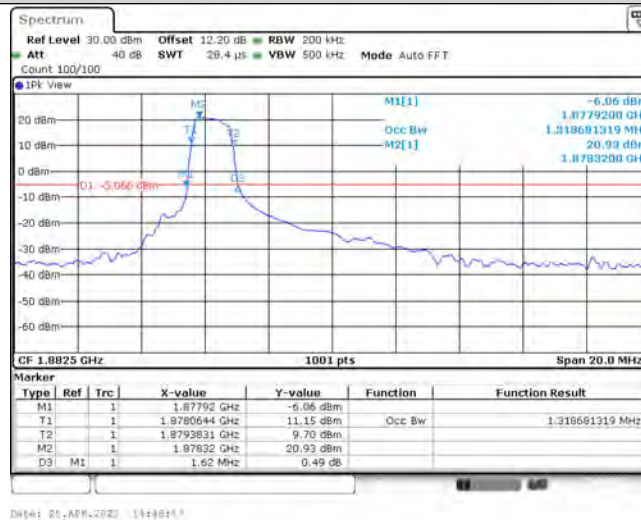
Band25-5MHz-16QAM-26365-6-0-Low-1.209-1.660-PASS



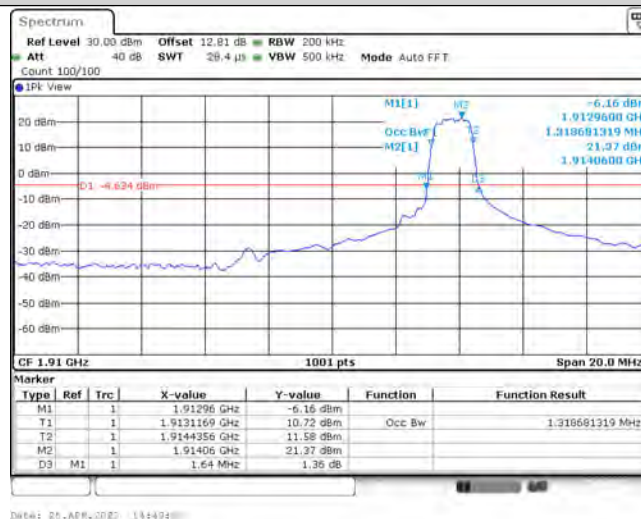
Band25-5MHz-16QAM-26665-6-0-High-1.189-1.440-PASS



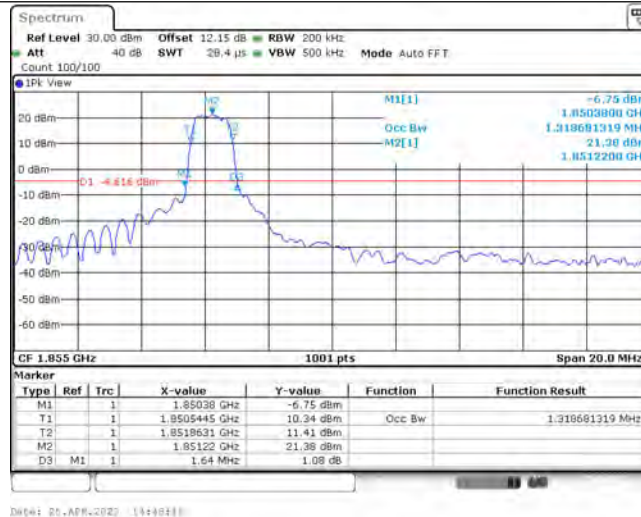
Band25-10MHz-QPSK-26090-6-0-Low-1.299-1.600-PASS



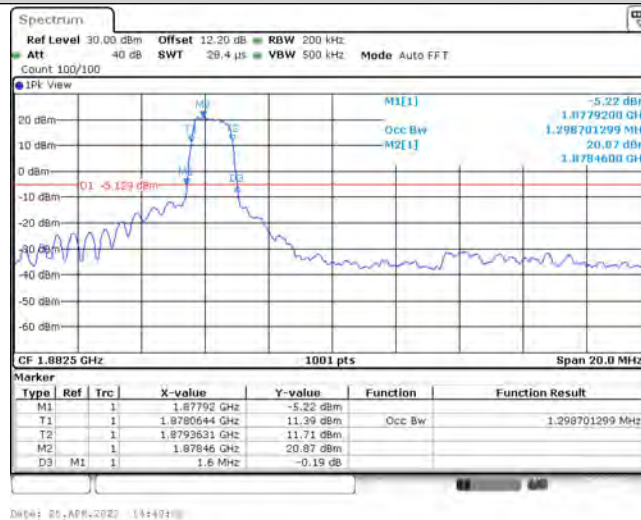
Band25-10MHz-QPSK-26365-6-0-Low-1.319-1.620-PASS



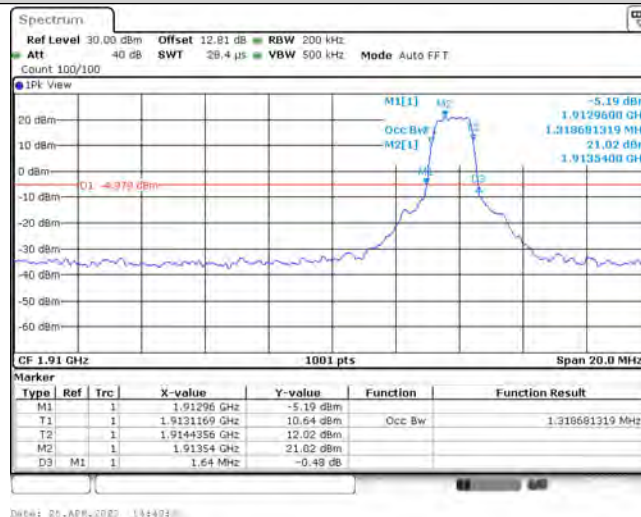
Band25-10MHz-QPSK-26640-6-0-High-1.319-1.640-PASS



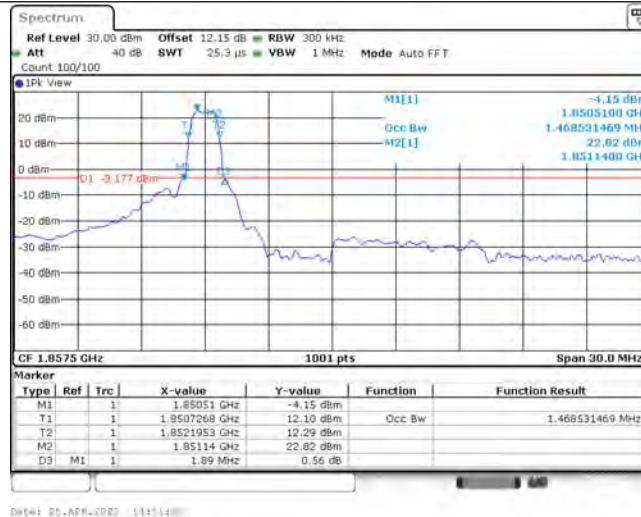
Band25-10MHz-16QAM-26090-6-0-Low-1.319-1.640-PASS



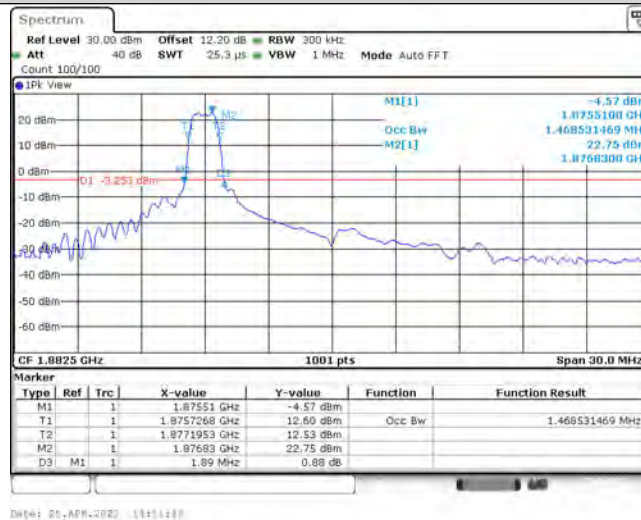
Band25-10MHz-16QAM-26365-6-0-Low-1.299-1.600-PASS



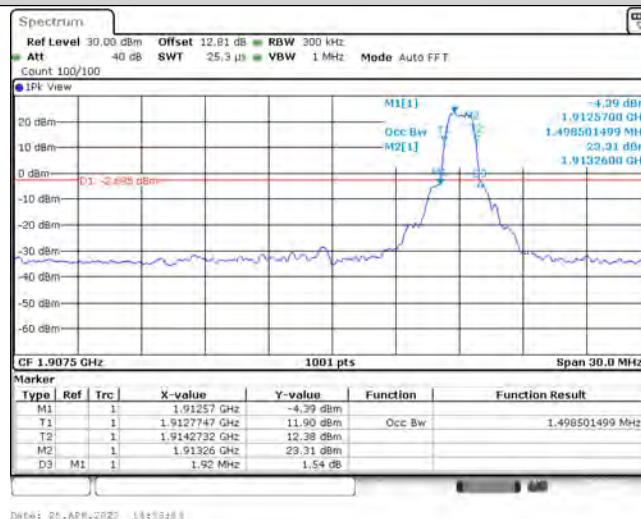
Band25-10MHz-16QAM-26640-6-0-High-1.319-1.640-PASS



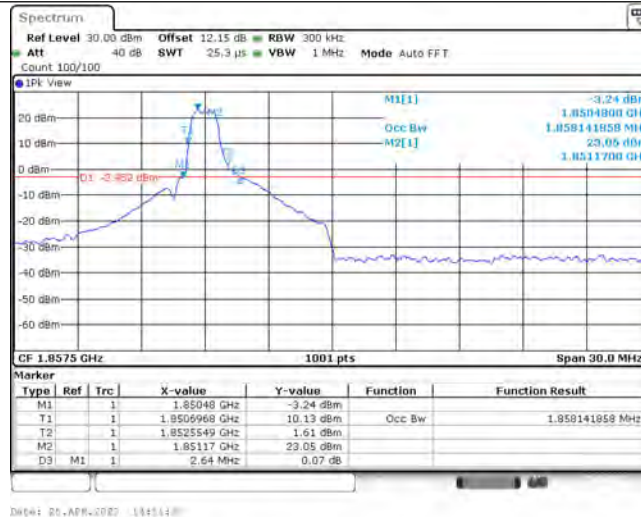
Band25-15MHz-QPSK-26115-6-0-Low-1.469-1.890-PASS



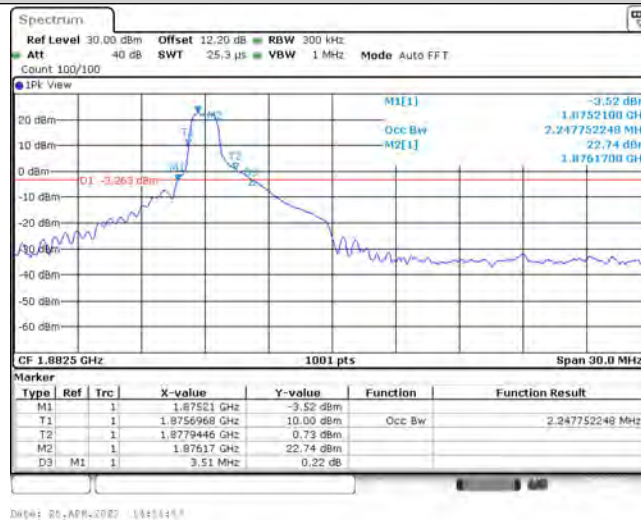
Band25-15MHz-QPSK-26365-6-0-Low-1.469-1.890-PASS



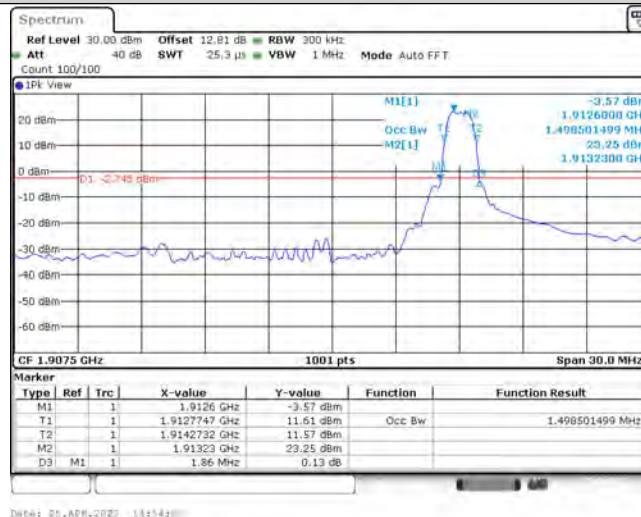
Band25-15MHz-QPSK-26615-6-0-High-1.499-1.920-PASS



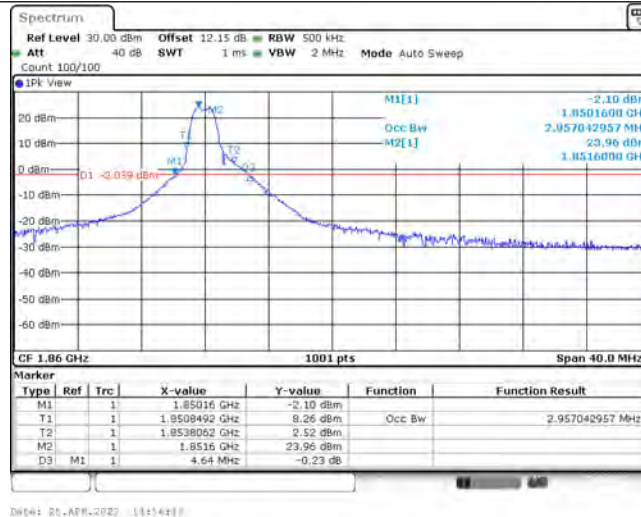
Band25-15MHz-16QAM-26115-6-0-Low-1.858-2.640-PASS



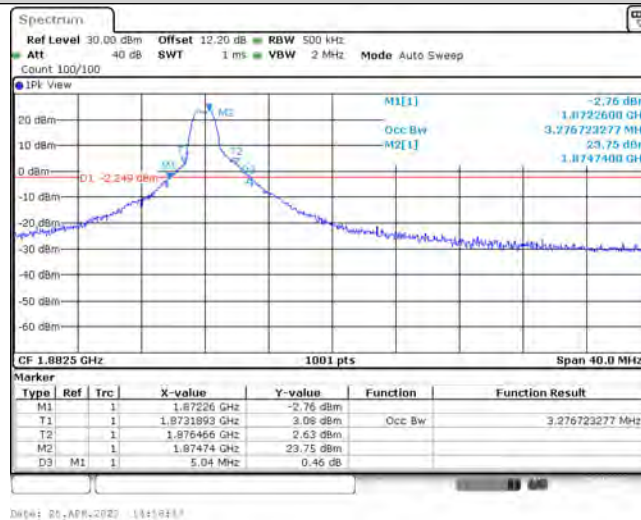
Band25-15MHz-16QAM-26365-6-0-Low-2.248-3.510-PASS



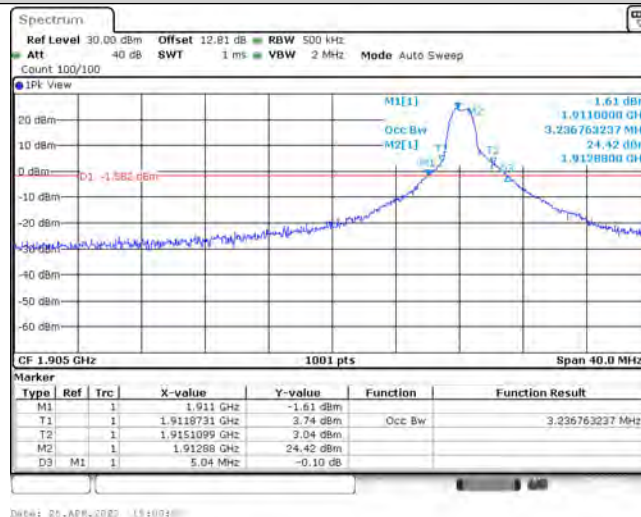
Band25-15MHz-16QAM-26615-6-0-High-1.499-1.860-PASS



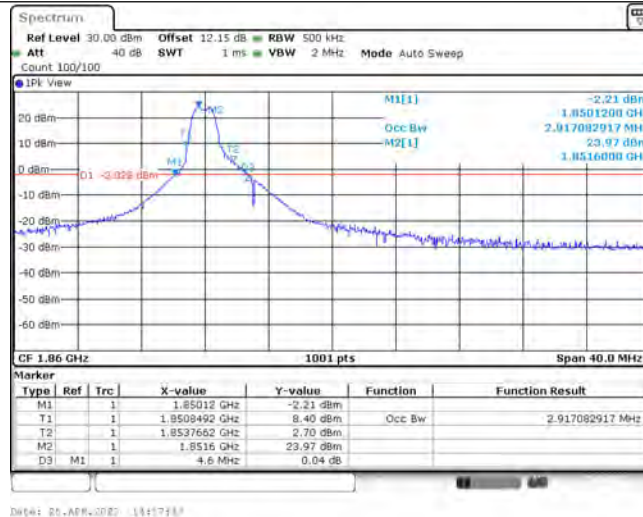
Band25-20MHz-QPSK-26140-6-0-Low-2.957-4.640-PASS



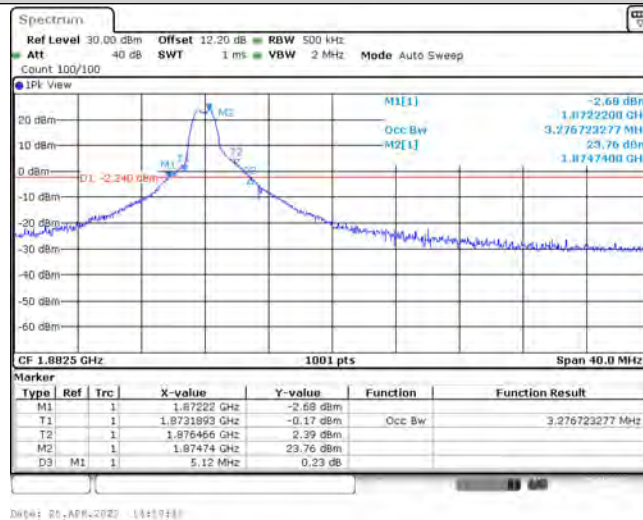
Band25-20MHz-QPSK-26365-6-0-Low-3.277-5.040-PASS



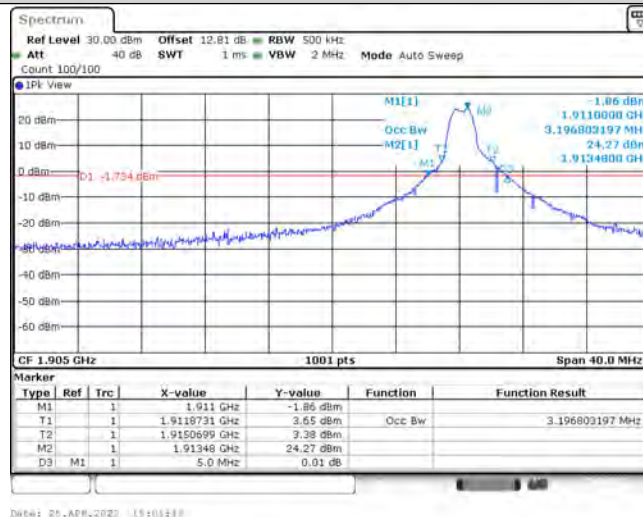
Band25-20MHz-QPSK-26590-6-0-High-3.237-5.040-PASS



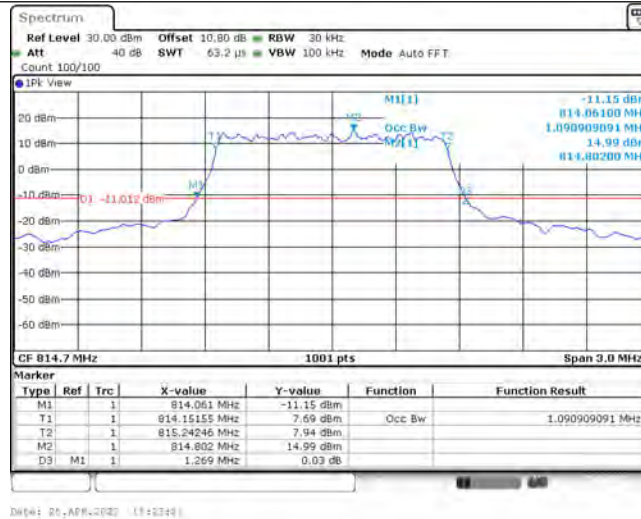
Band25-20MHz-16QAM-26140-6-0-Low-2.917-4.600-PASS



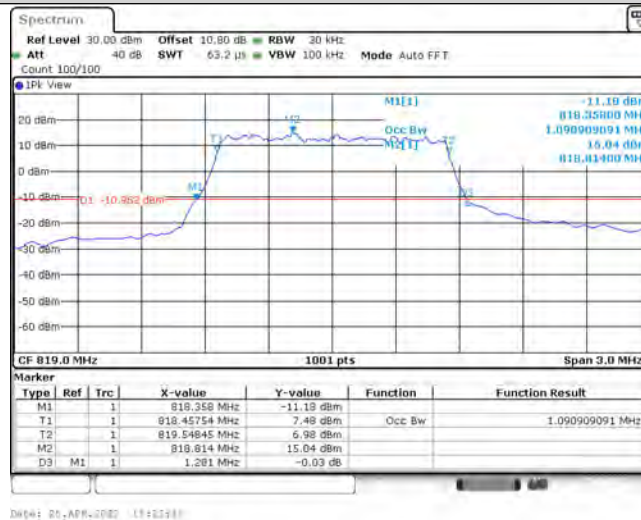
Band25-20MHz-16QAM-26365-6-0-Low-3.277-5.120-PASS



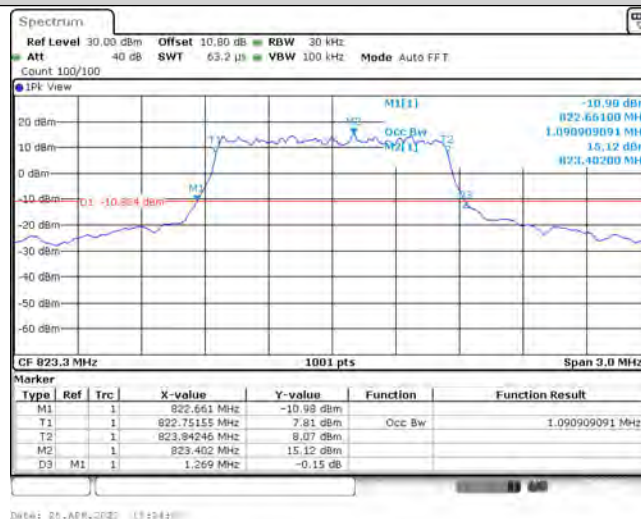
Band25-20MHz-16QAM-26590-6-0-High-3.197-5.000-PASS



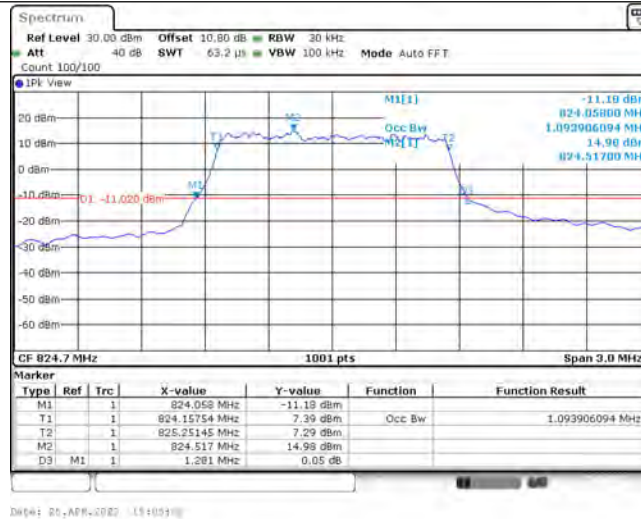
Band26-1.4MHz-QPSK-26697-6-0-Low-1.091-1.269-PASS



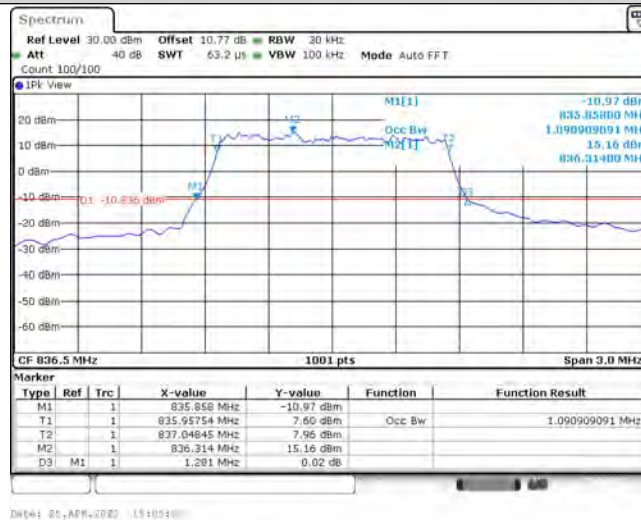
Band26-1.4MHz-QPSK-26740-6-0-Low-1.091-1.281-PASS



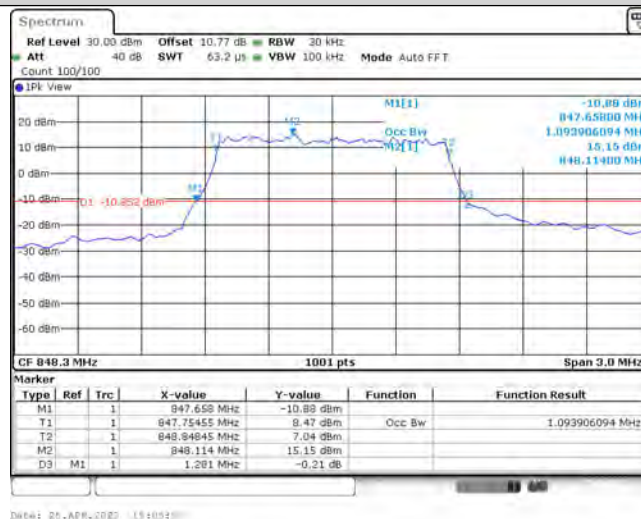
Band26-1.4MHz-QPSK-26783-6-0-High-1.091-1.269-PASS



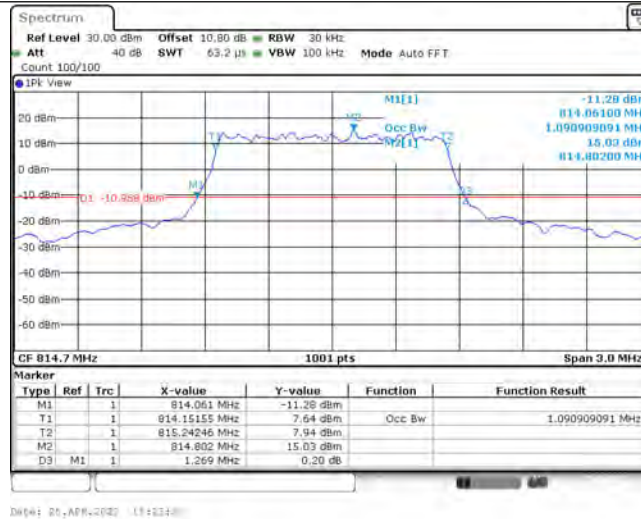
Band26-1.4MHz-QPSK-26797-6-0-Low-1.094-1.281-PASS



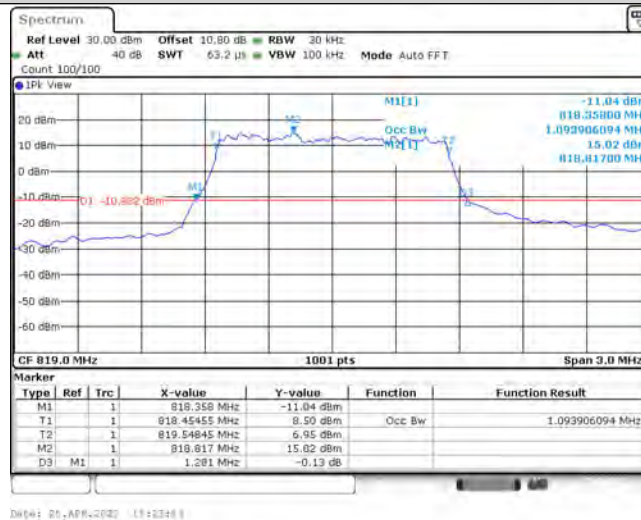
Band26-1.4MHz-QPSK-26915-6-0-Low-1.091-1.281-PASS



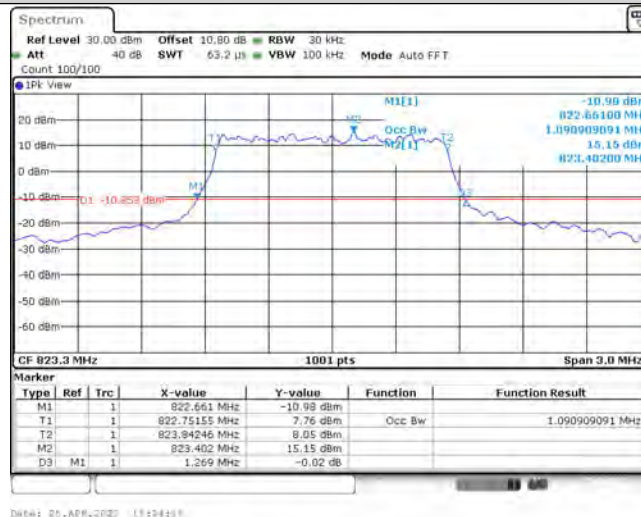
Band26-1.4MHz-QPSK-27033-6-0-High-1.094-1.281-PASS



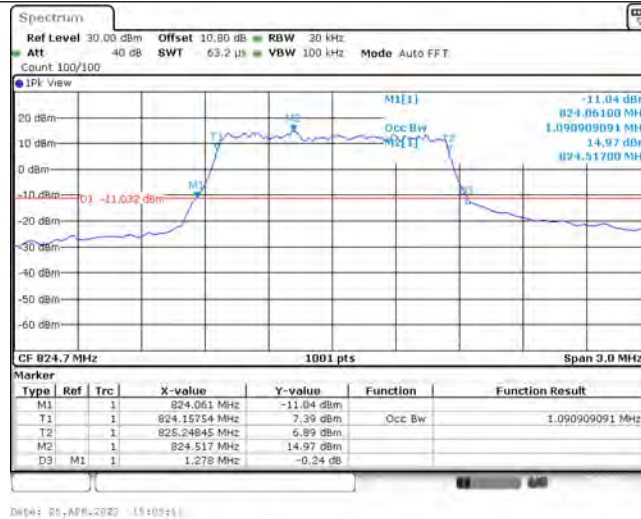
Band26-1.4MHz-16QAM-26697-6-0-Low-1.091-1.269-PASS



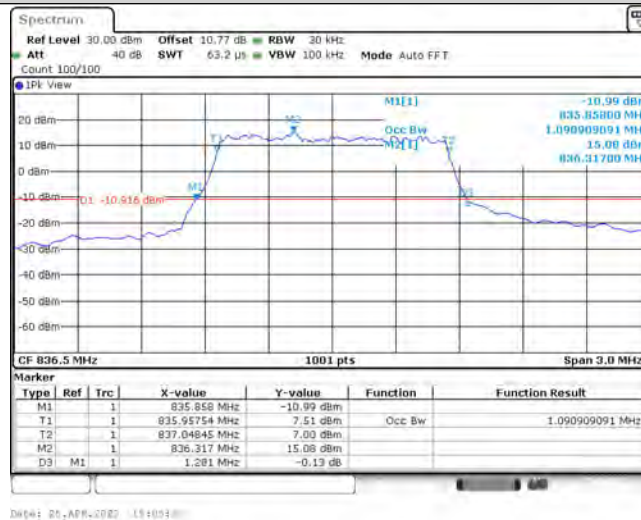
Band26-1.4MHz-16QAM-26740-6-0-Low-1.094-1.281-PASS



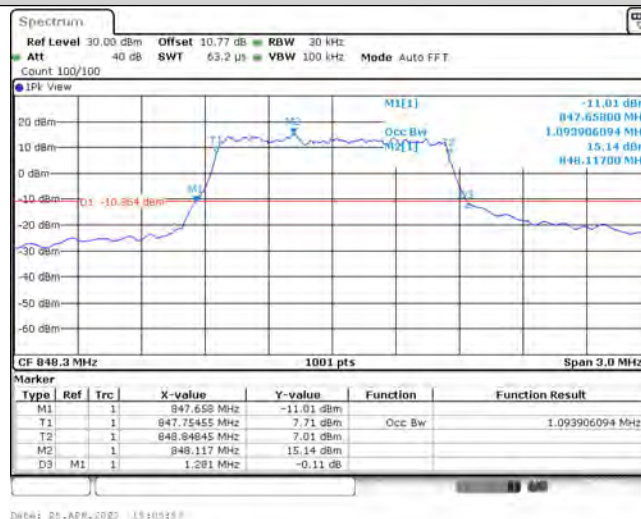
Band26-1.4MHz-16QAM-26783-6-0-High-1.091-1.269-PASS



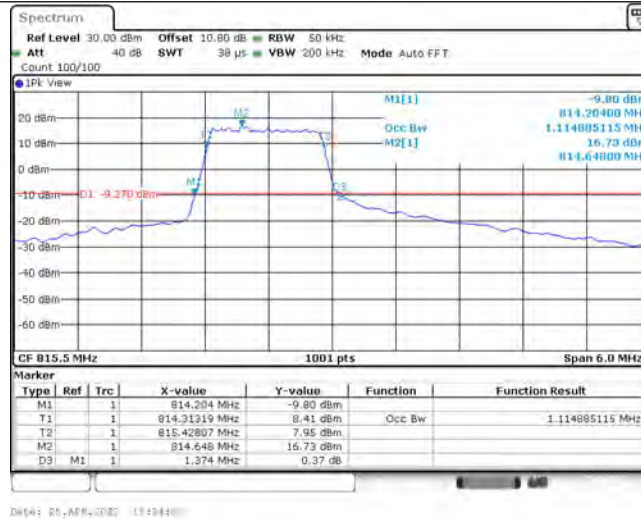
Band26.14MHz-16QAM-26797-6-0-Low-1.091-1.278-PASS



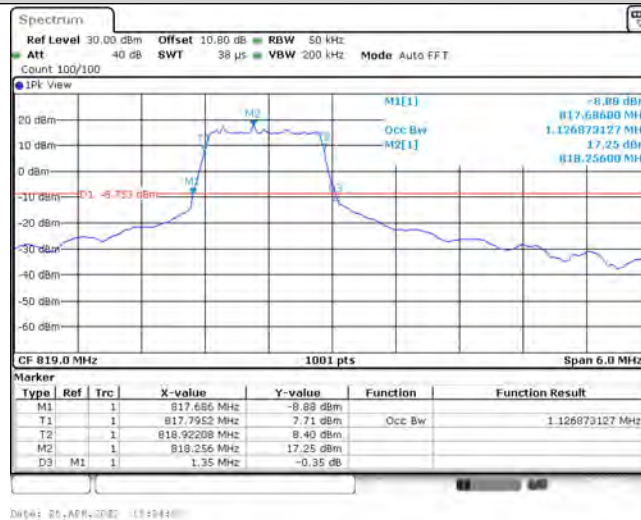
Band26.14MHz-16QAM-26915-6-0-Low-1.091-1.281-PASS



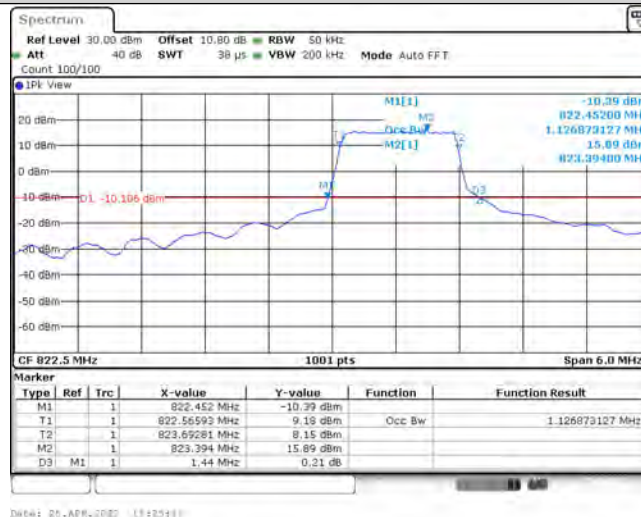
Band26.14MHz-16QAM-27033-6-0-High-1.094-1.281-PASS



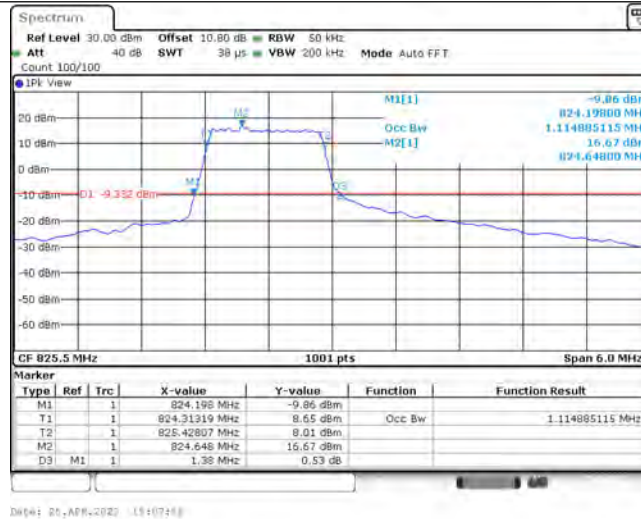
Band26-3MHz-QPSK-26705-6-0-Low-1.115-1.374-PASS



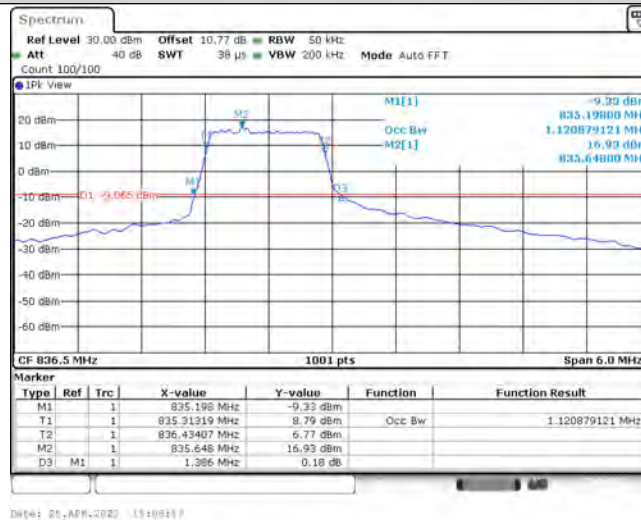
Band26-3MHz-QPSK-26740-6-0-Low-1.127-1.350-PASS



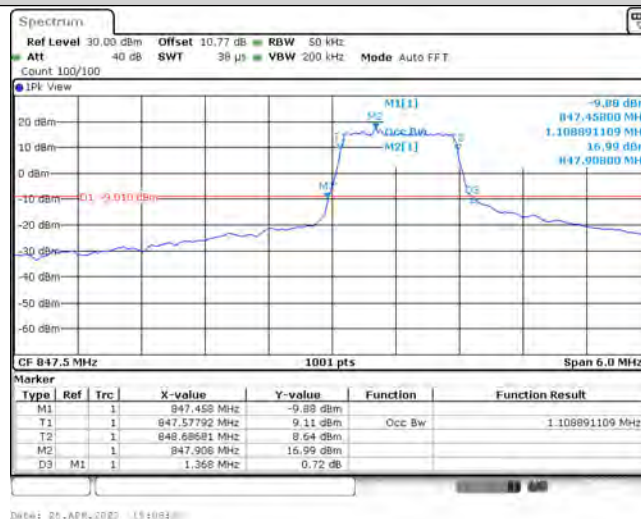
Band26-3MHz-QPSK-26775-6-0-High-1.127-1.440-PASS



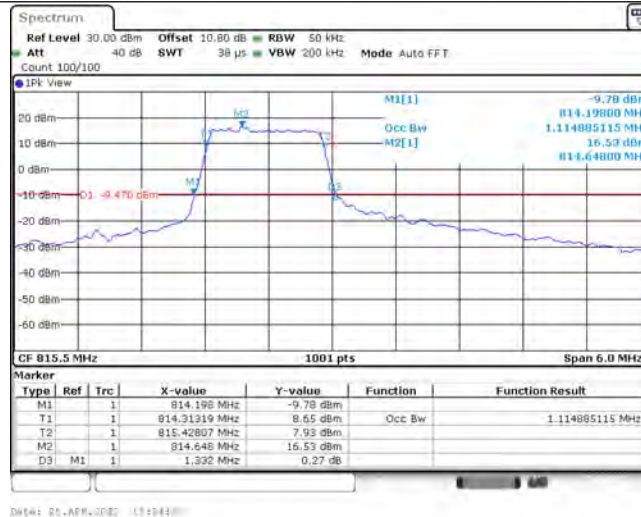
Band26-3MHz-QPSK-26805-6-0-Low-1.115-1.380-PASS



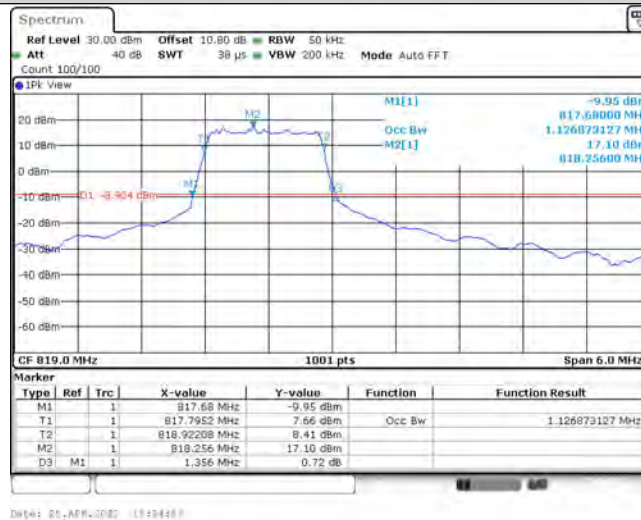
Band26-3MHz-QPSK-26915-6-0-Low-1.121-1.386-PASS



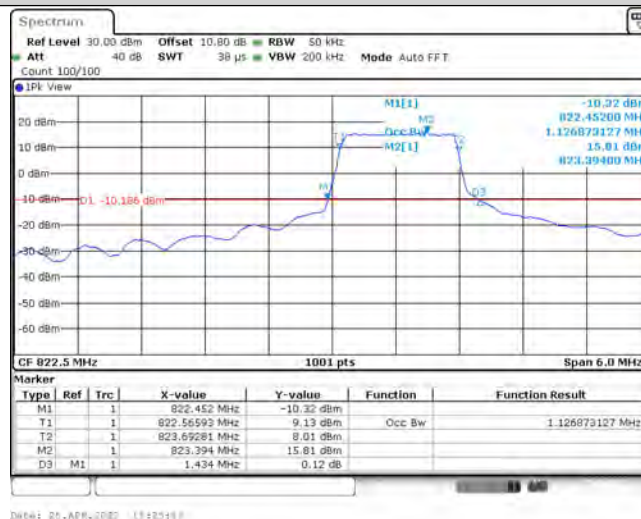
Band26-3MHz-QPSK-27025-6-0-High-1.109-1.368-PASS



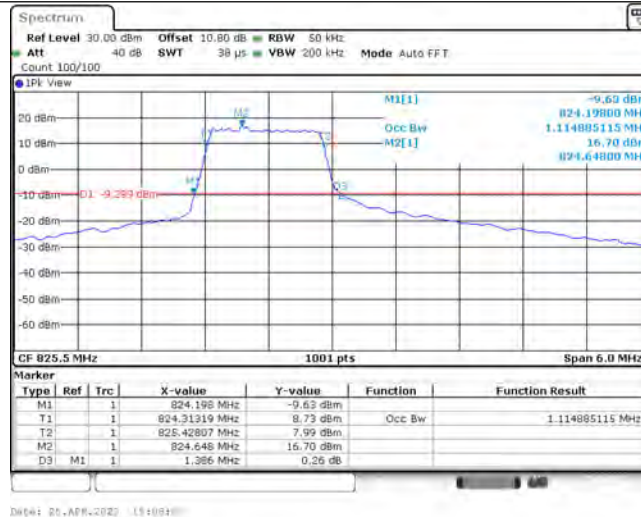
Band26-3MHz-16QAM-26705-6-0-Low-1.115-1.332-PASS



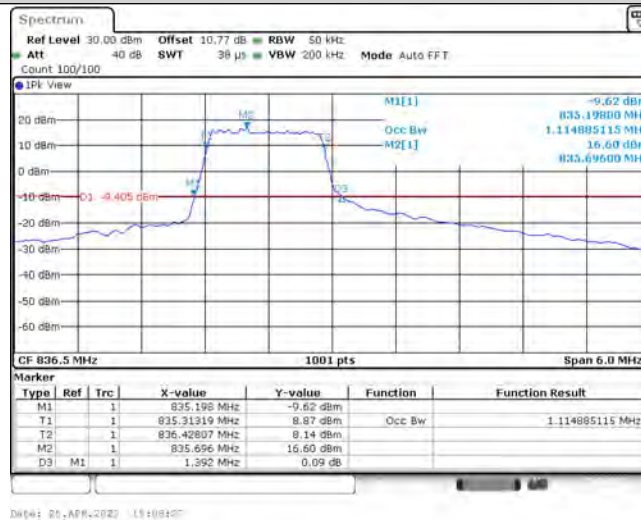
Band26-3MHz-16QAM-26740-6-0-Low-1.127-1.356-PASS



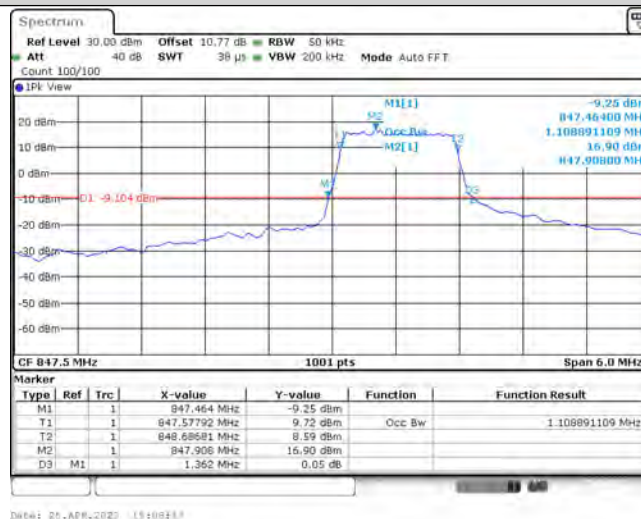
Band26-3MHz-16QAM-26775-6-0-High-1.127-1.434-PASS



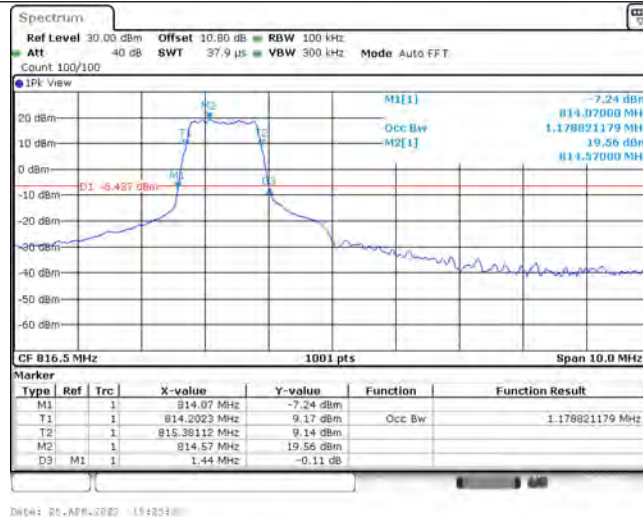
Band26-3MHz-16QAM-26805-6-0-Low-1.115-1.386-PASS



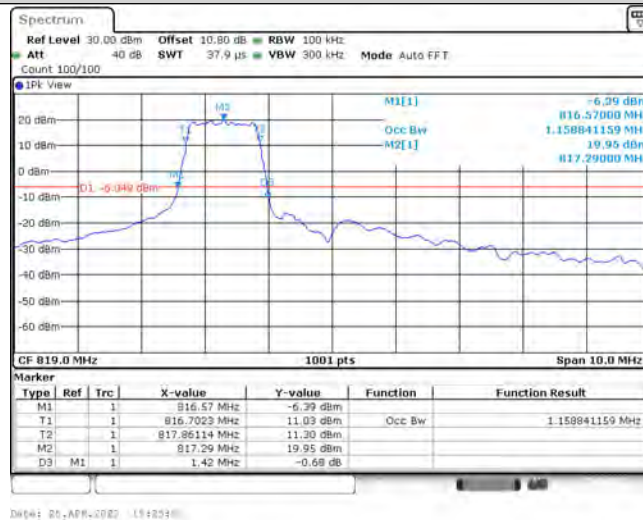
Band26-3MHz-16QAM-26915-6-0-Low-1.115-1.392-PASS



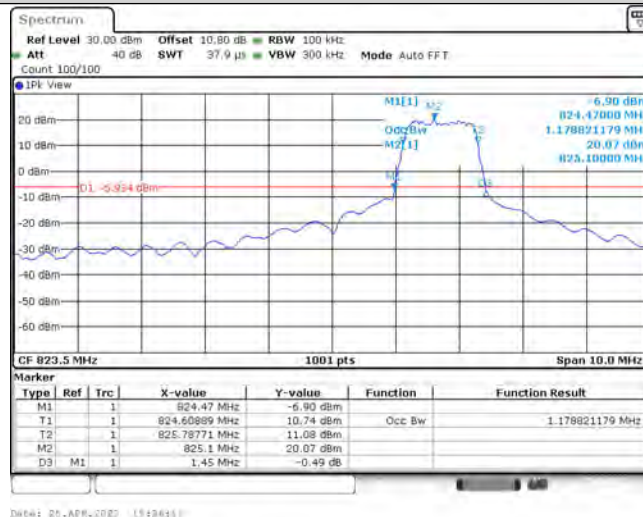
Band26-3MHz-16QAM-27025-6-0-High-1.109-1.362-PASS



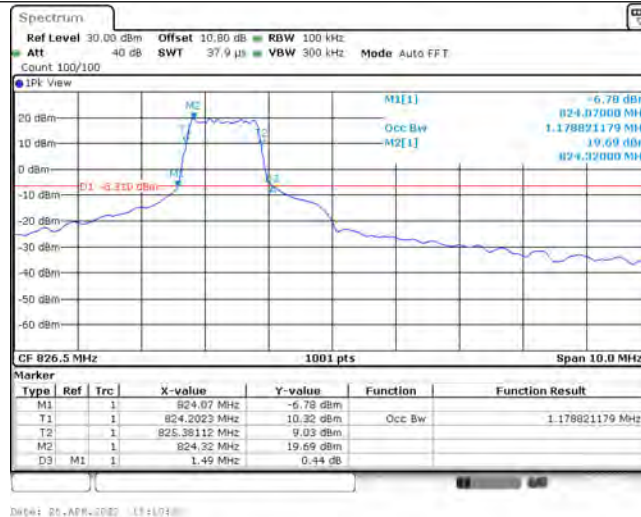
Band26-5MHz-QPSK-26715-6-0-Low-1.179-1.440-PASS



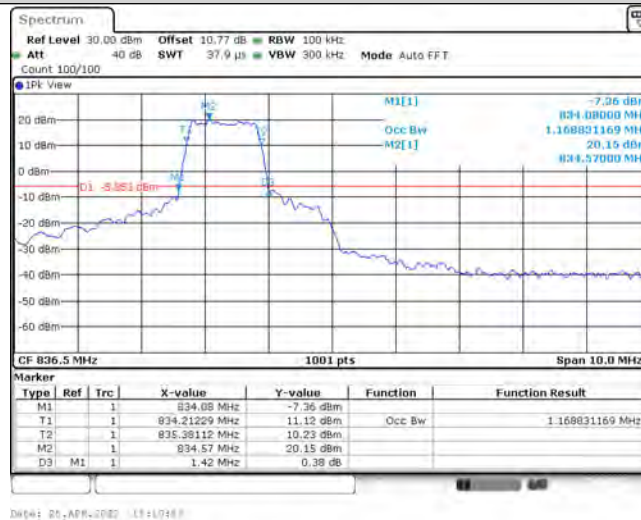
Band26-5MHz-QPSK-26740-6-0-Low-1.159-1.420-PASS



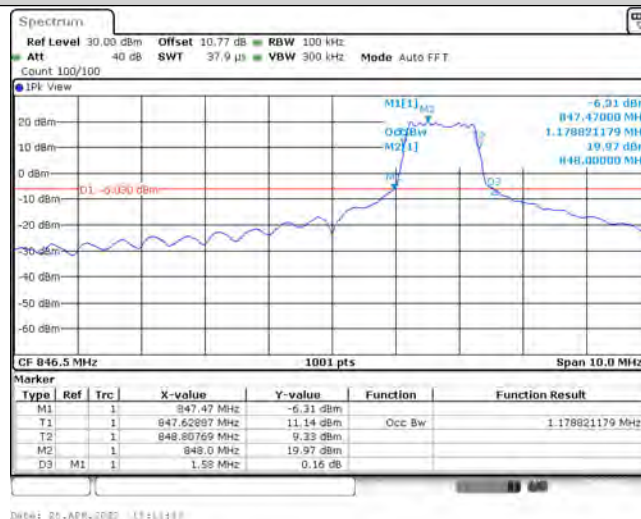
Band26-5MHz-QPSK-26785-6-0-High-1.179-1.450-PASS



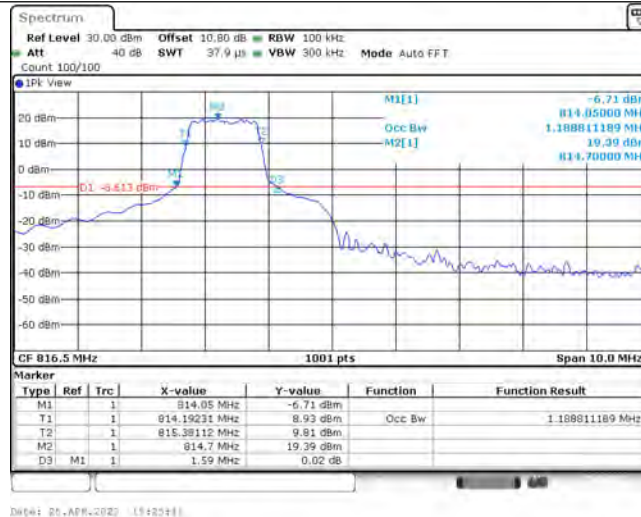
Band26-5MHz-QPSK-26815-6-0-Low-1.179-1.490-PASS



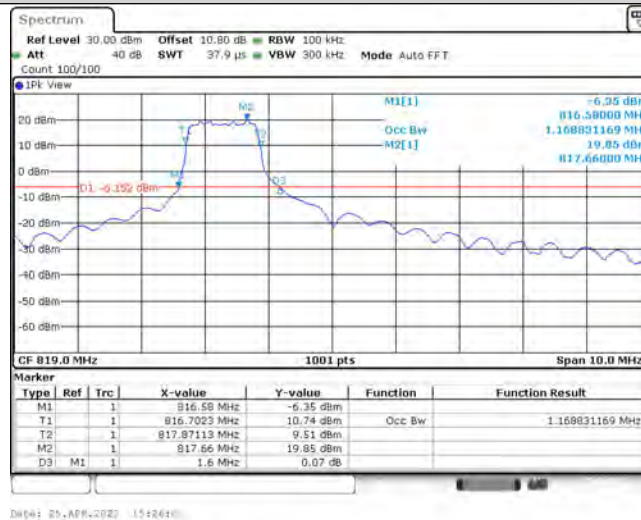
Band26-5MHz-QPSK-26915-6-0-Low-1.169-1.420-PASS



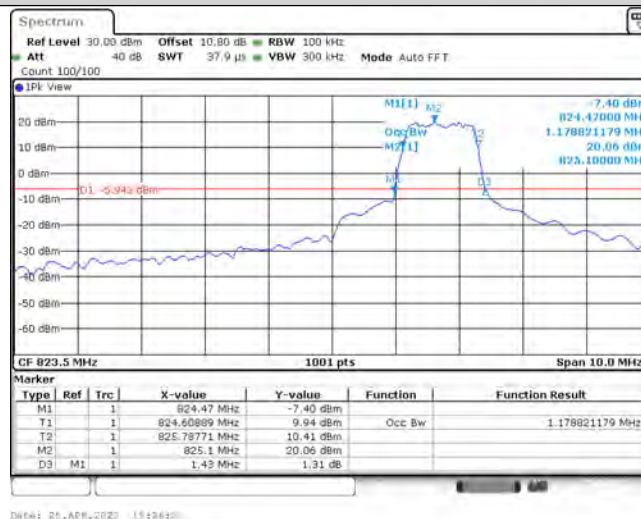
Band26-5MHz-QPSK-27015-6-0-High-1.179-1.580-PASS



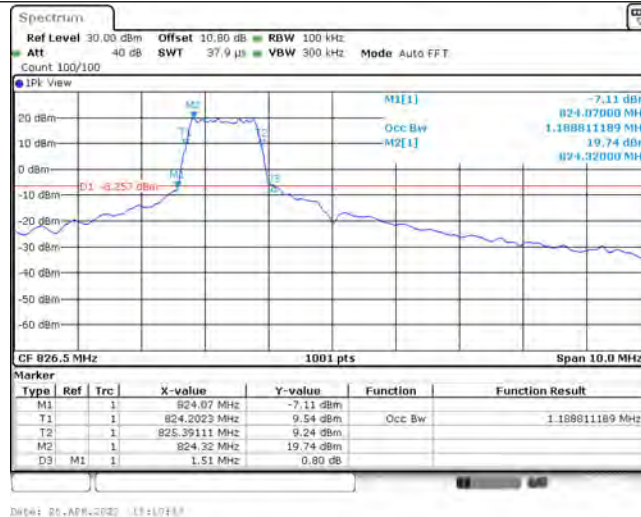
Band26-5MHz-16QAM-26715-6-0-Low-1.189-1.590-PASS



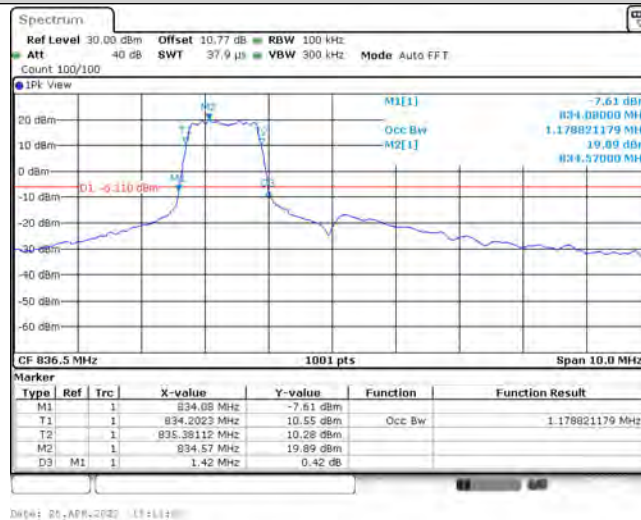
Band26-5MHz-16QAM-26740-6-0-Low-1.169-1.600-PASS



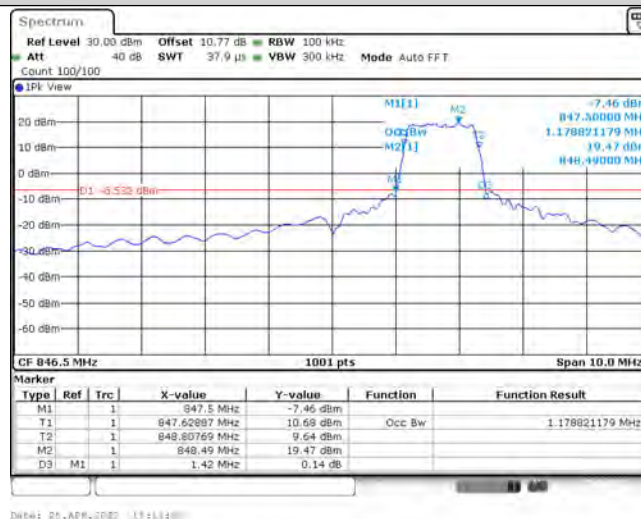
Band26-5MHz-16QAM-26785-6-0-High-1.179-1.430-PASS



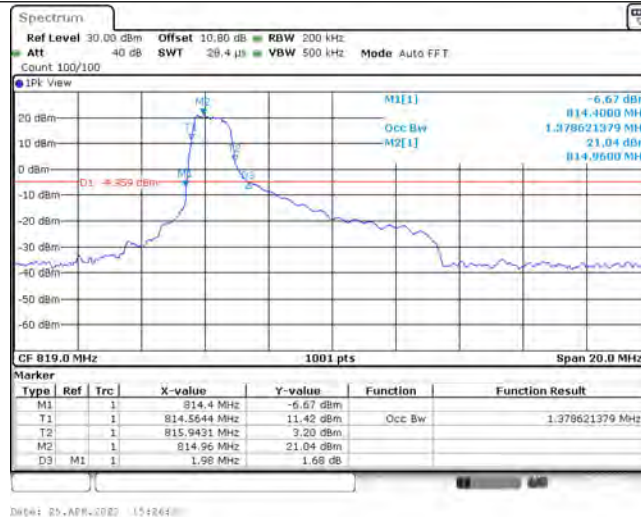
Band26-5MHz-16QAM-26815-6-0-Low-1.189-1.510-PASS



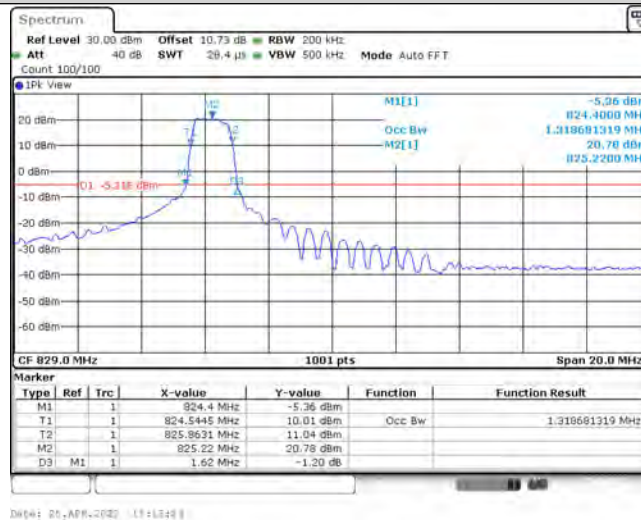
Band26-5MHz-16QAM-26915-6-0-Low-1.179-1.420-PASS



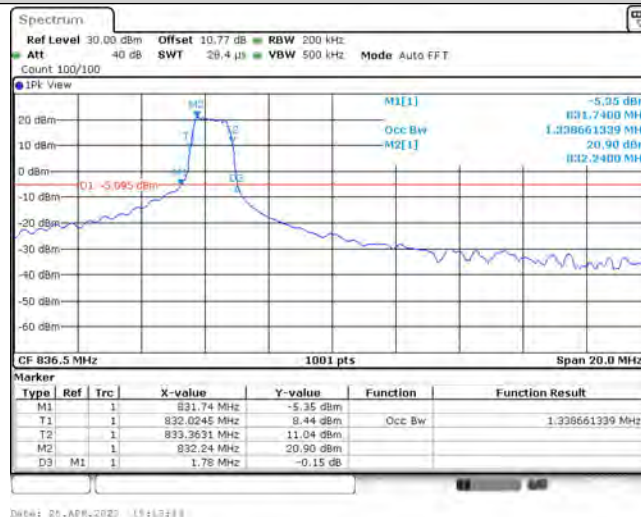
Band26-5MHz-16QAM-27015-6-0-High-1.179-1.420-PASS



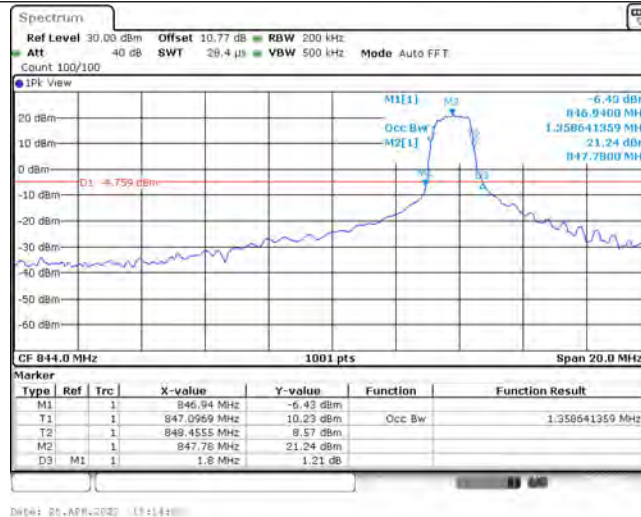
Band26-10MHz-QPSK-26740-6-0-Low-1.379-1.980-PASS



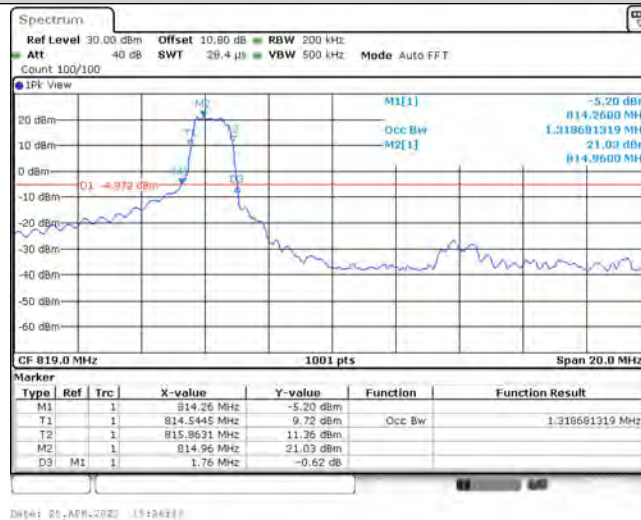
Band26-10MHz-QPSK-26840-6-0-Low-1.319-1.620-PASS



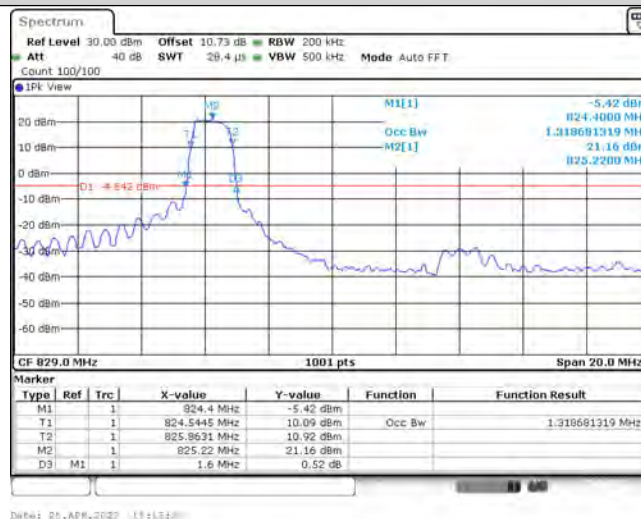
Band26-10MHz-QPSK-26915-6-0-Low-1.339-1.780-PASS



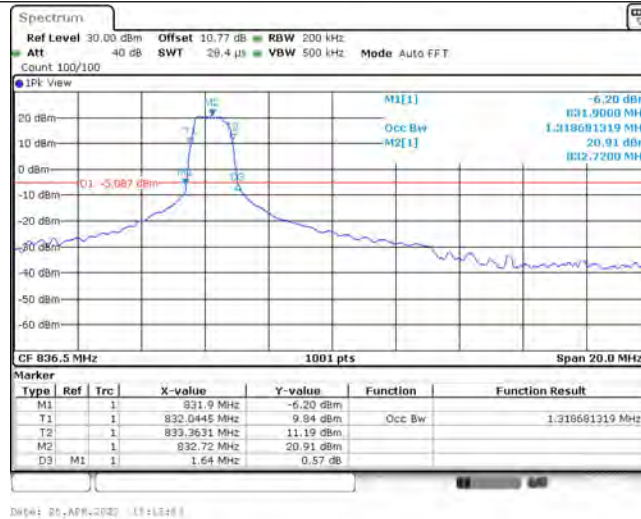
Band26-10MHz-QPSK-26990-6-0-High-1.359-1.800-PASS



Band26-10MHz-16QAM-26740-6-0-Low-1.319-1.760-PASS



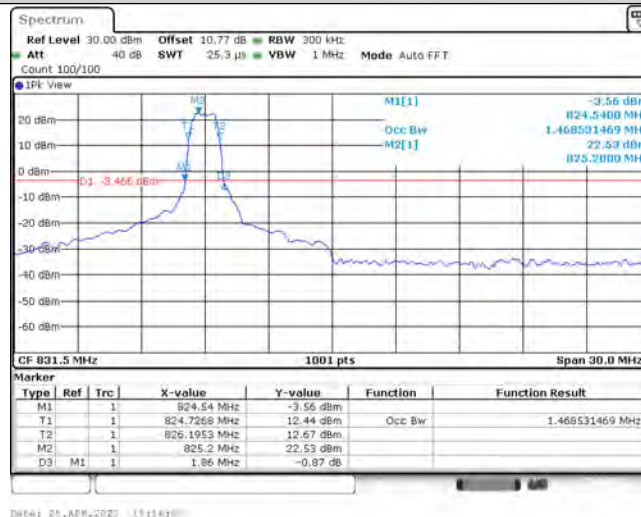
Band26-10MHz-16QAM-26840-6-0-Low-1.319-1.600-PASS



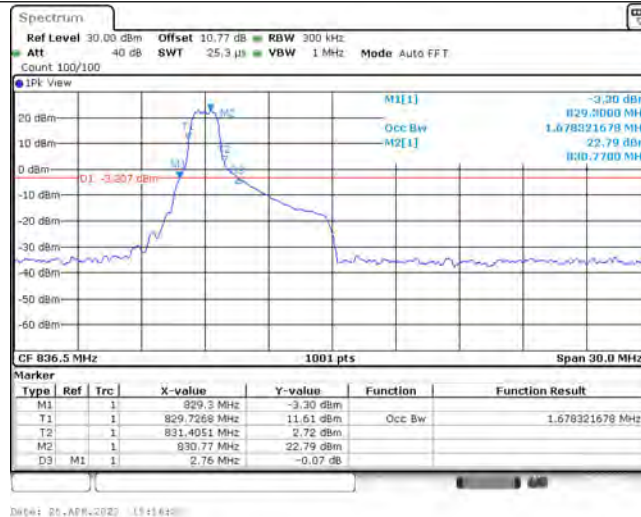
Band26-10MHz-16QAM-26915-6-0-Low-1.319-1.640-PASS



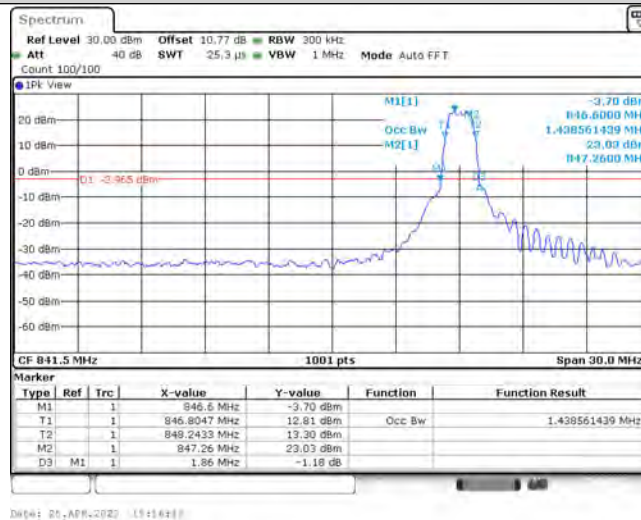
Band26-10MHz-16QAM-26990-6-0-High-1.379-2.000-PASS



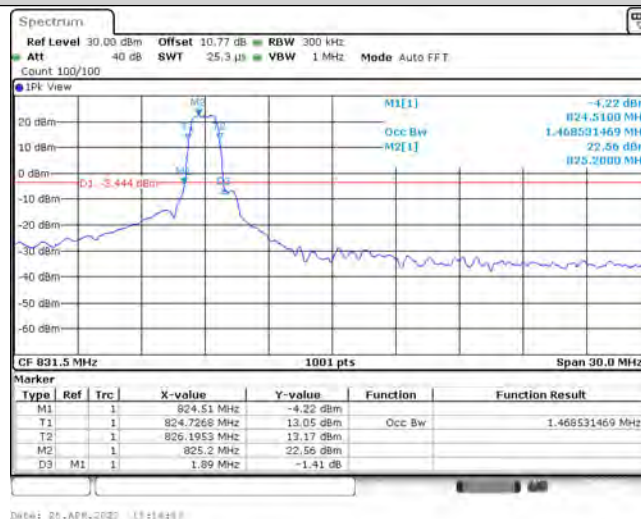
Band26-15MHz-QPSK-26865-6-0-Low-1.469-1.860-PASS



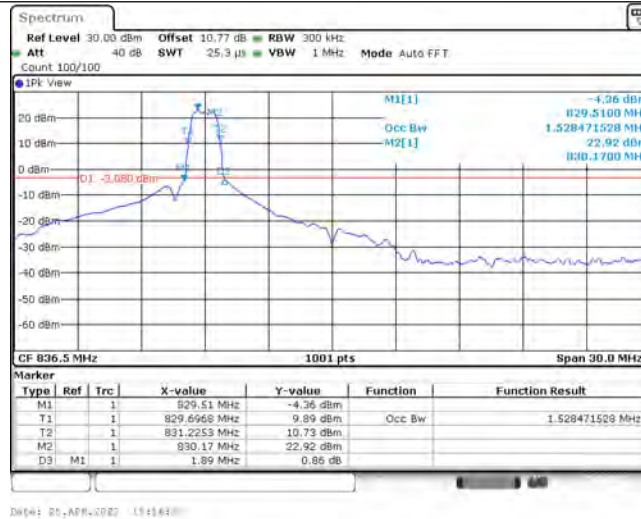
Band26-15MHz-QPSK-26915-6-0-Low-1.678-2.760-PASS



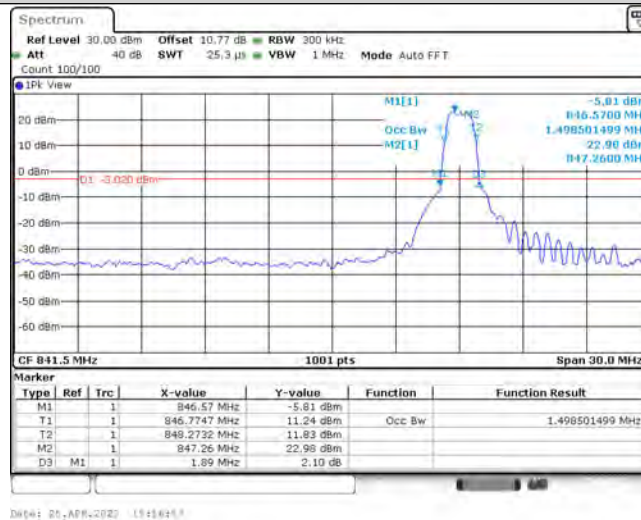
Band26-15MHz-QPSK-26965-6-0-High-1.439-1.860-PASS



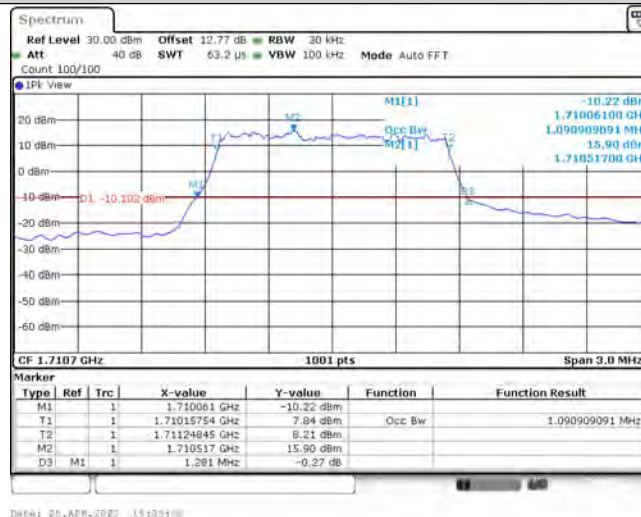
Band26-15MHz-16QAM-26865-6-0-Low-1.469-1.890-PASS



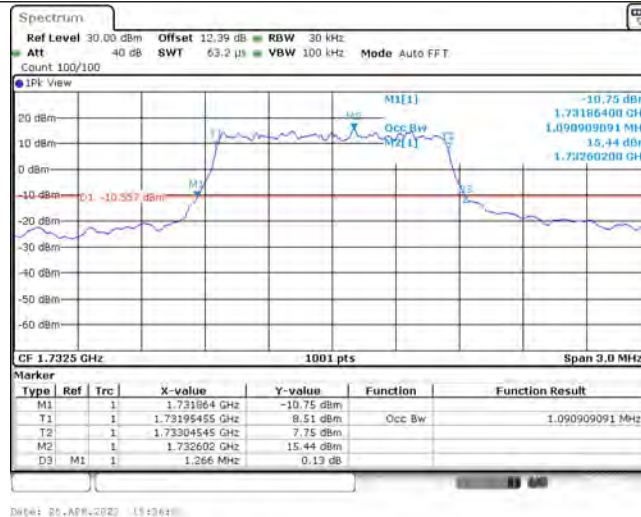
Band26-15MHz-16QAM-26915-6-0-Low-1.528-1.890-PASS



Band26-15MHz-16QAM-26965-6-0-High-1.499-1.890-PASS



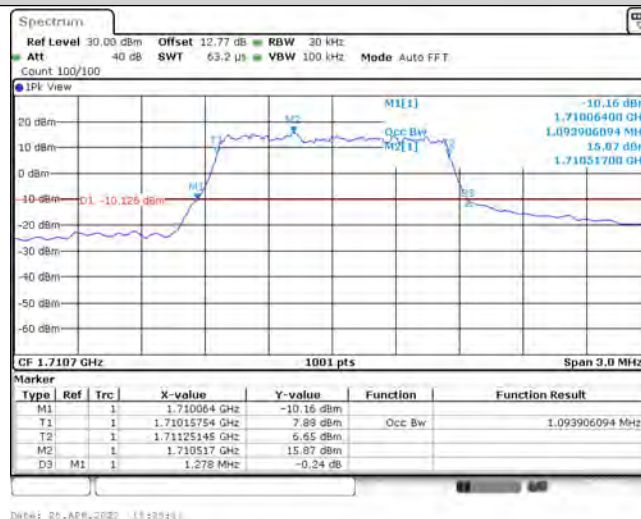
Band4-1.4MHz-QPSK-19957-6-0-Low-1.091-1.281-PASS



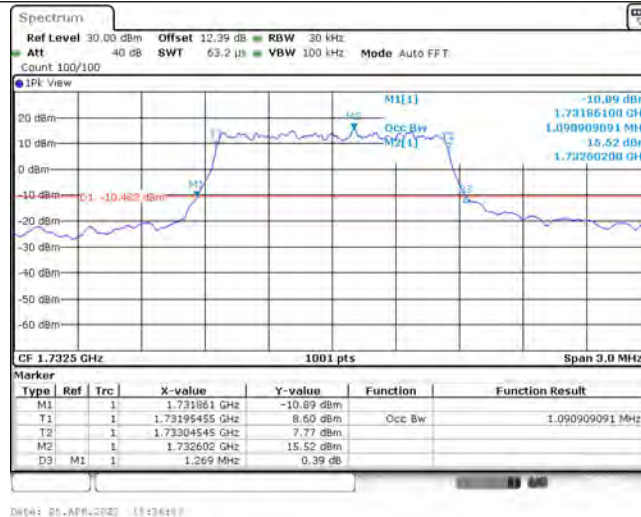
Band4-1.4MHz-QPSK-20175-6-0-Low-1.091-1.266-PASS



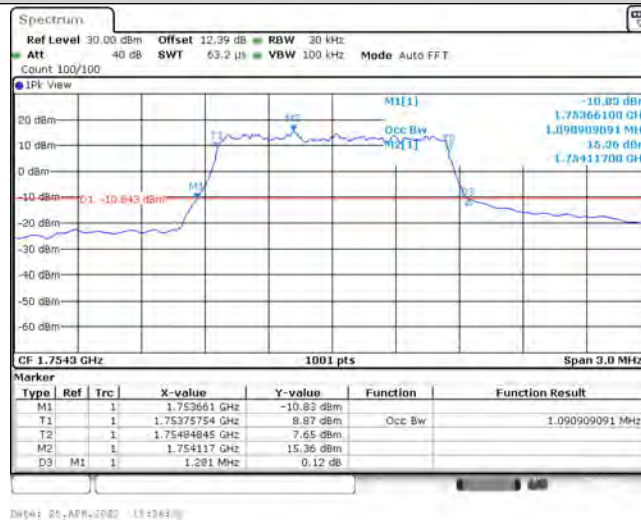
Band4-1.4MHz-QPSK-20393-6-0-High-1.094-1.281-PASS



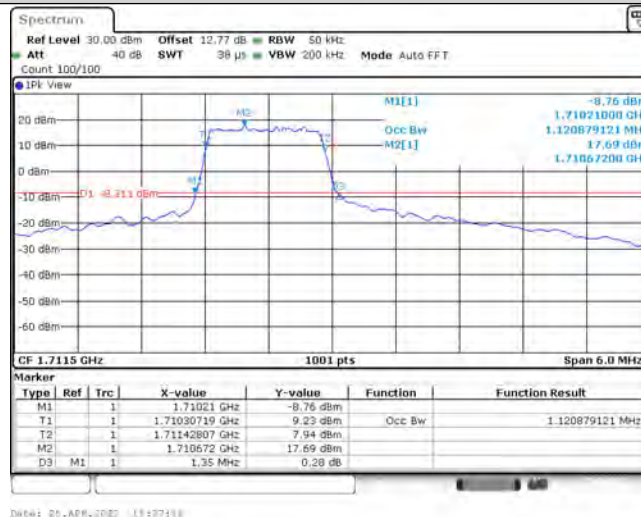
Band4-1.4MHz-16QAM-19957-6-0-Low-1.094-1.278-PASS



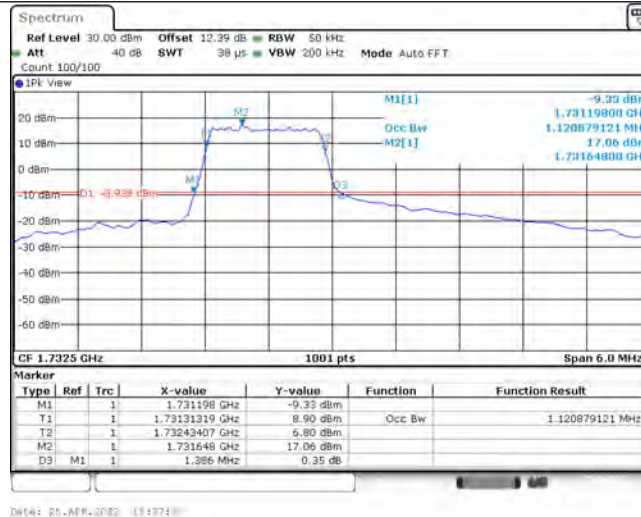
Band4-1.4MHz-16QAM-20175-6-0-Low-1.091-1.269-PASS



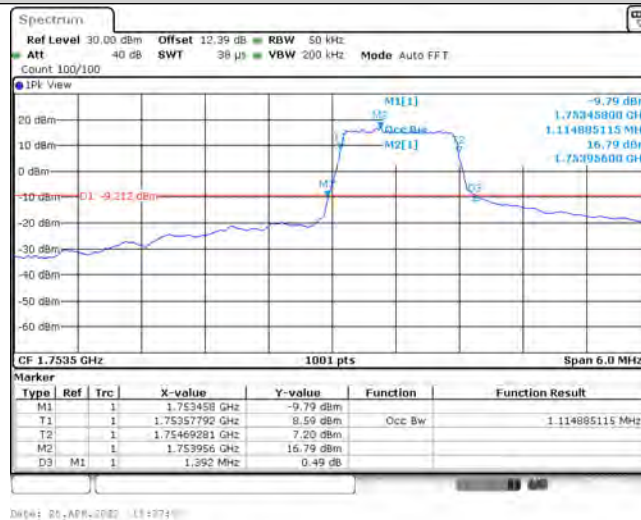
Band4-1.4MHz-16QAM-20393-6-0-High-1.091-1.281-PASS



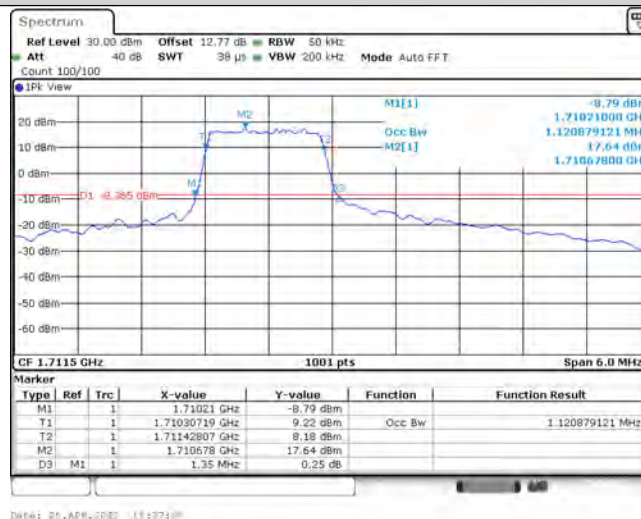
Band4-3MHz-QPSK-19965-6-0-Low-1.121-1.350-PASS



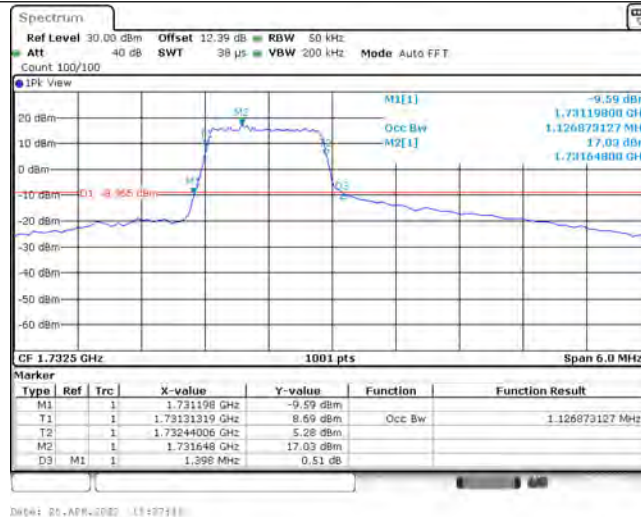
Band4-3MHz-QPSK-20175-6-0-Low-1.121-1.386-PASS



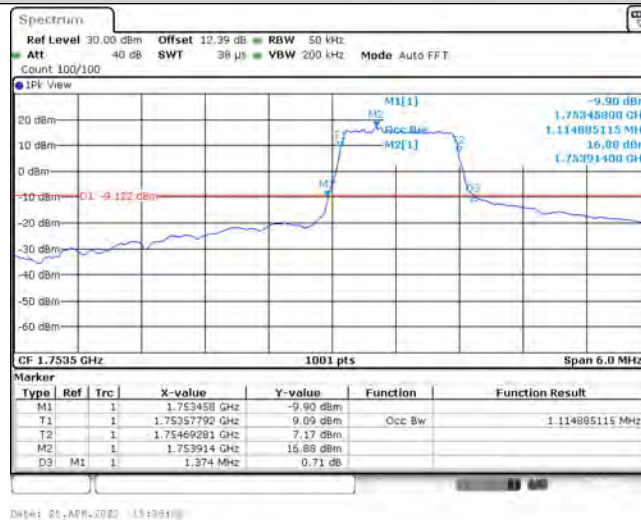
Band4-3MHz-QPSK-20385-6-0-High-1.115-1.392-PASS



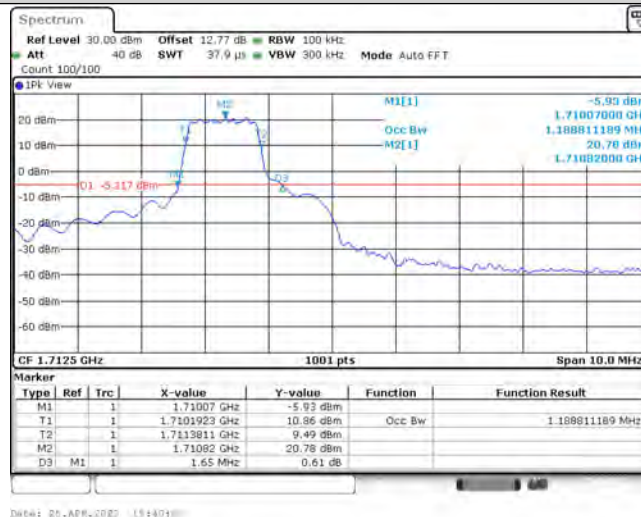
Band4-3MHz-16QAM-19965-6-0-Low-1.121-1.350-PASS



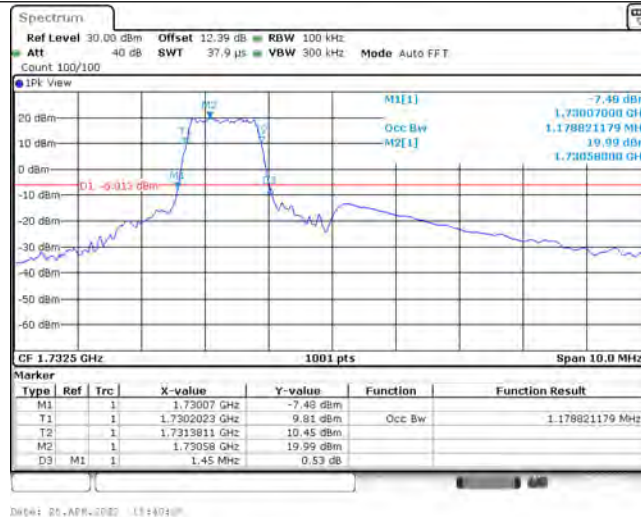
Band4-3MHz-16QAM-20175-6-0-Low-1.127-1.398-PASS



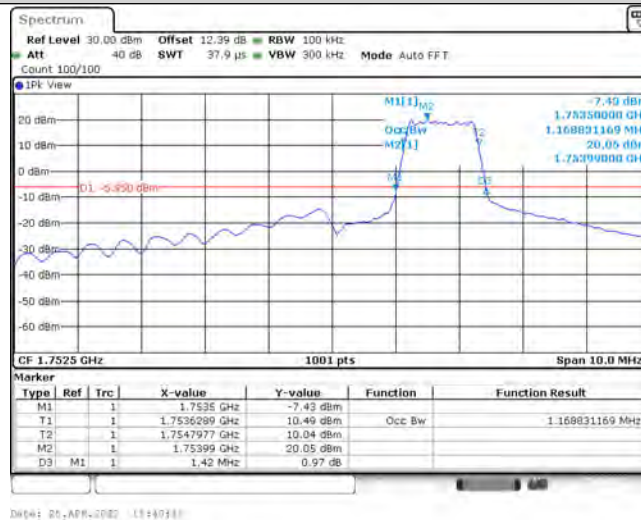
Band4-3MHz-16QAM-20385-6-0-High-1.115-1.374-PASS



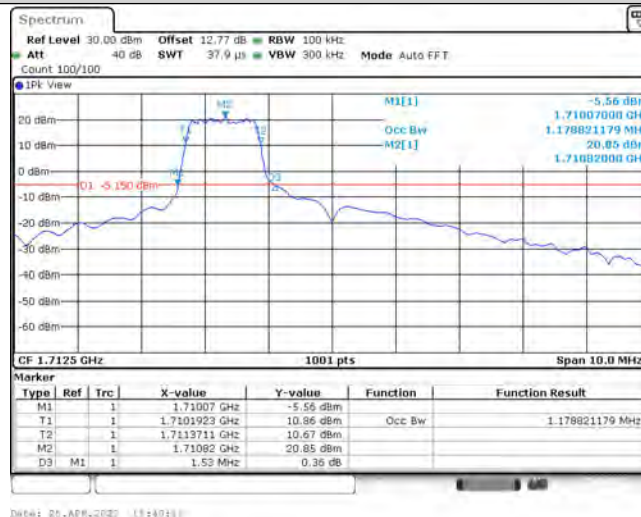
Band4-5MHz-QPSK-19975-6-0-Low-1.189-1.650-PASS



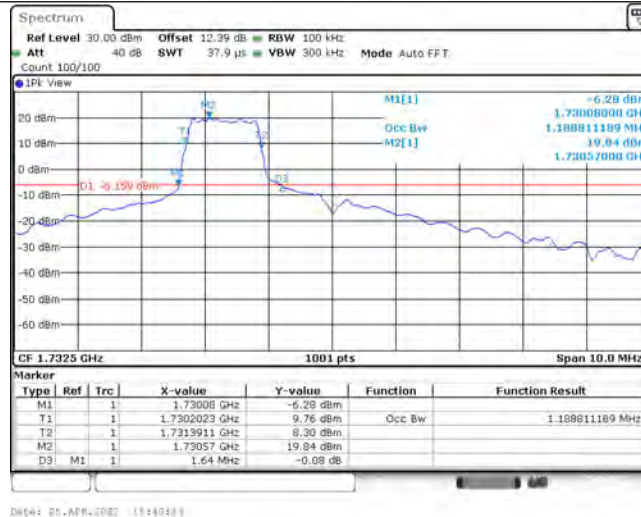
Band4-5MHz-QPSK-20175-6-0-Low-1.179-1.450-PASS



Band4-5MHz-QPSK-20375-6-0-High-1.169-1.420-PASS



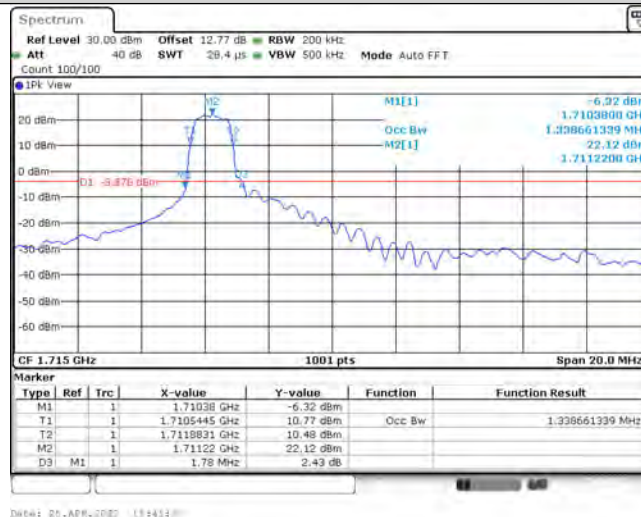
Band4-5MHz-16QAM-19975-6-0-Low-1.179-1.530-PASS



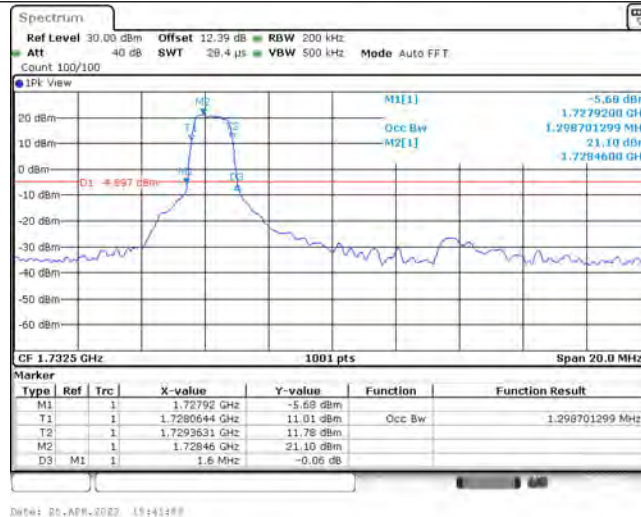
Band4-5MHz-16QAM-20175-6-0-Low-1.189-1.640-PASS



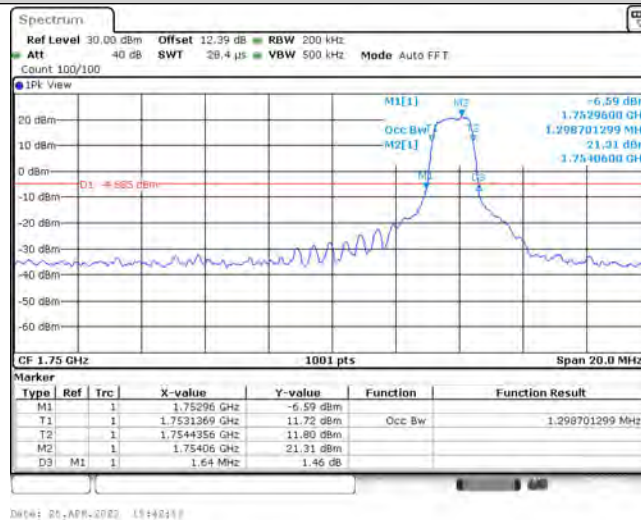
Band4-5MHz-16QAM-20375-6-0-High-1.209-1.670-PASS



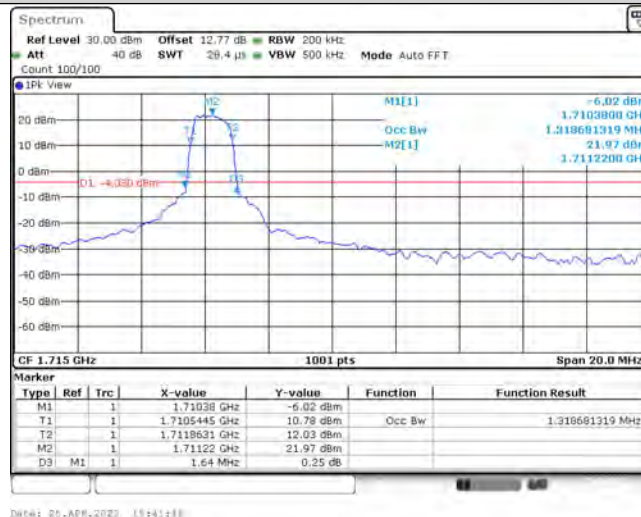
Band4-10MHz-QPSK-20000-6-0-Low-1.339-1.780-PASS



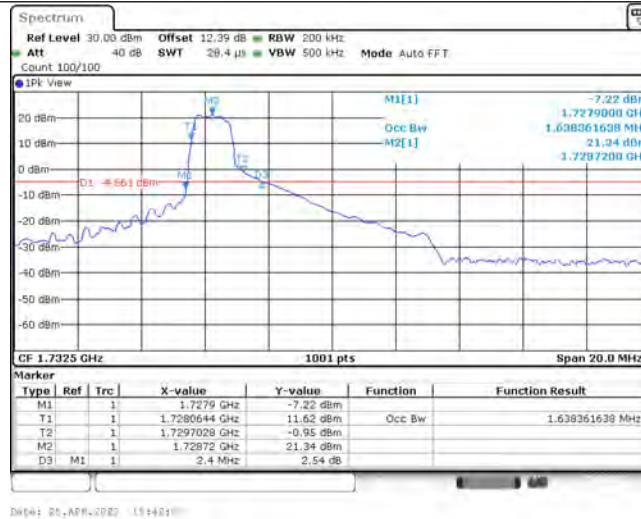
Band4-10MHz-QPSK-20175-6-0-Low-1.299-1.600-PASS



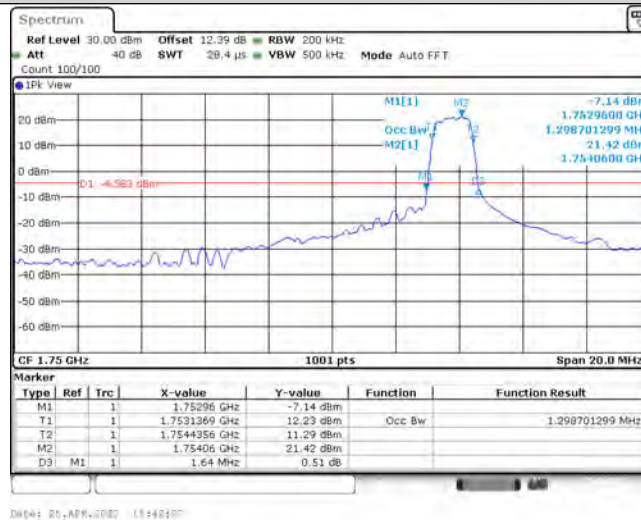
Band4-10MHz-QPSK-20350-6-0-High-1.299-1.640-PASS



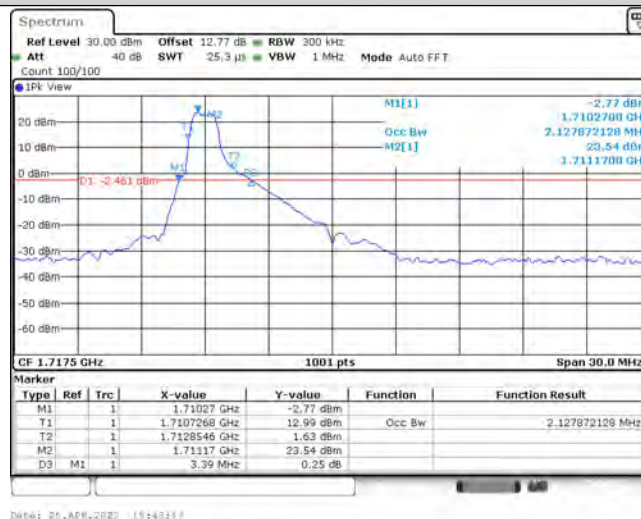
Band4-10MHz-16QAM-20000-6-0-Low-1.319-1.640-PASS



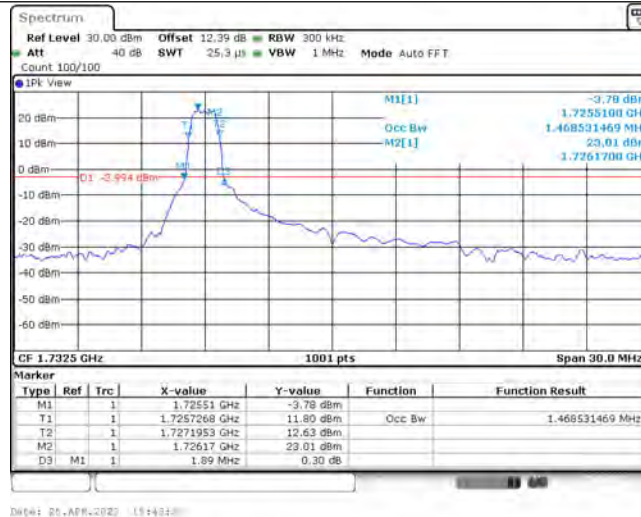
Band4-10MHz-16QAM-20175-6-0-Low-1.638-2.400-PASS



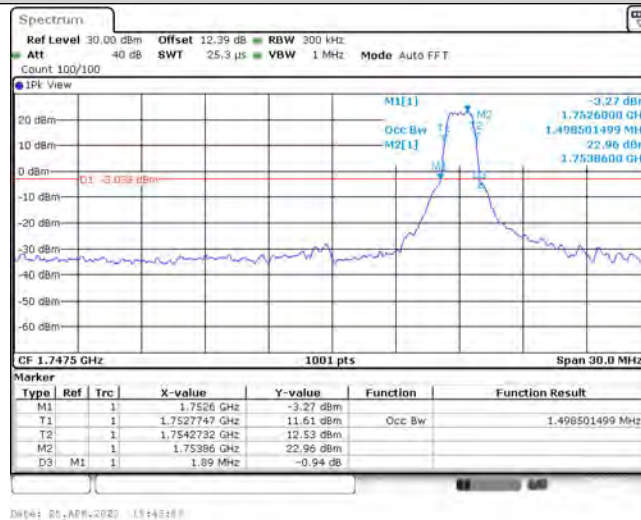
Band4-10MHz-16QAM-20350-6-0-High-1.299-1.640-PASS



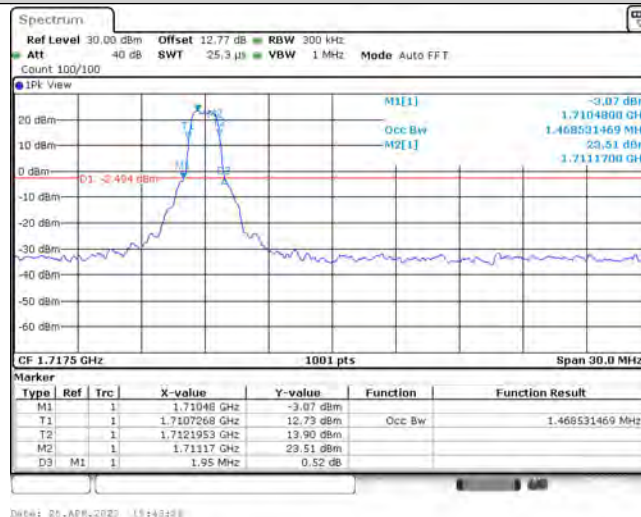
Band4-15MHz-QPSK-20025-6-0-Low-2.128-3.390-PASS



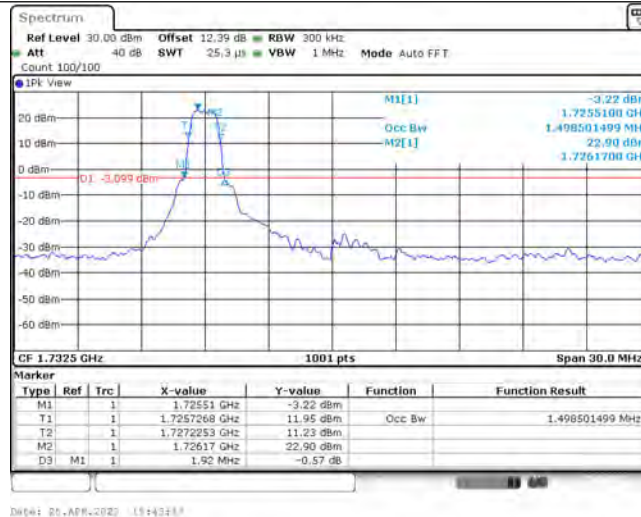
Band4-15MHz-QPSK-20175-6-0-Low-1.469-1.890-PASS



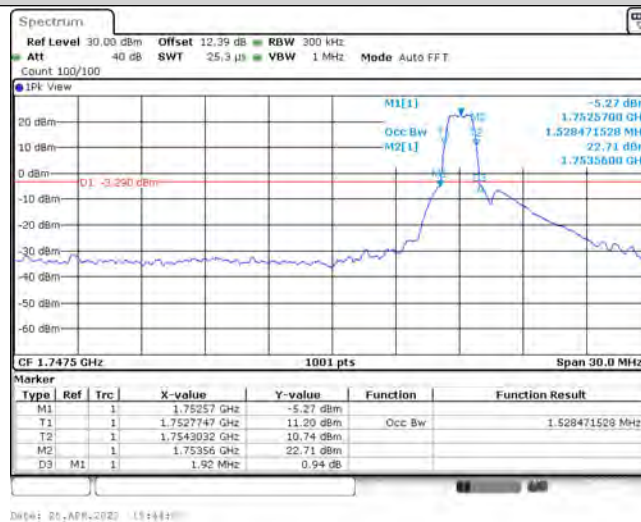
Band4-15MHz-QPSK-20325-6-0-High-1.499-1.890-PASS



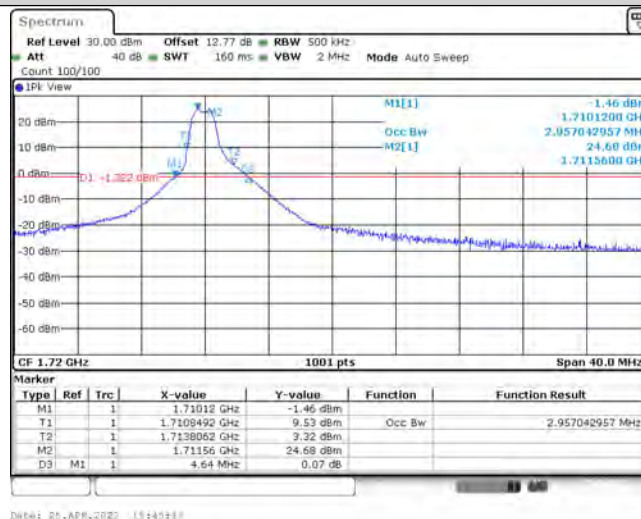
Band4-15MHz-16QAM-20025-6-0-Low-1.469-1.950-PASS



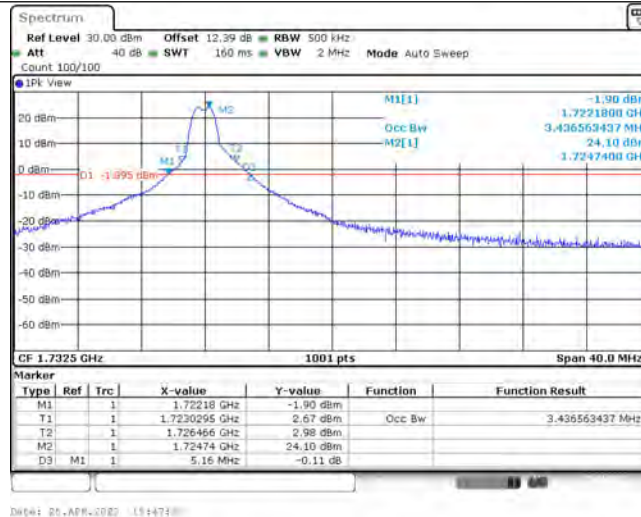
Band4-15MHz-16QAM-20175-6-0-Low-1.499-1.920-PASS



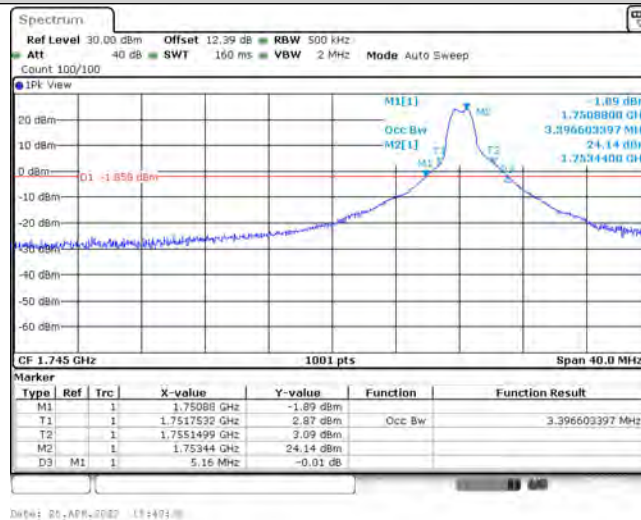
Band4-15MHz-16QAM-20325-6-0-High-1.528-1.920-PASS



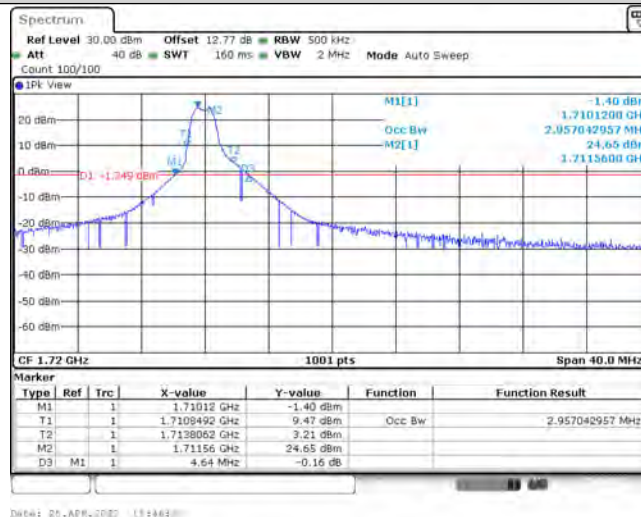
Band4-20MHz-QPSK-20050-6-0-Low-2.957-4.640-PASS



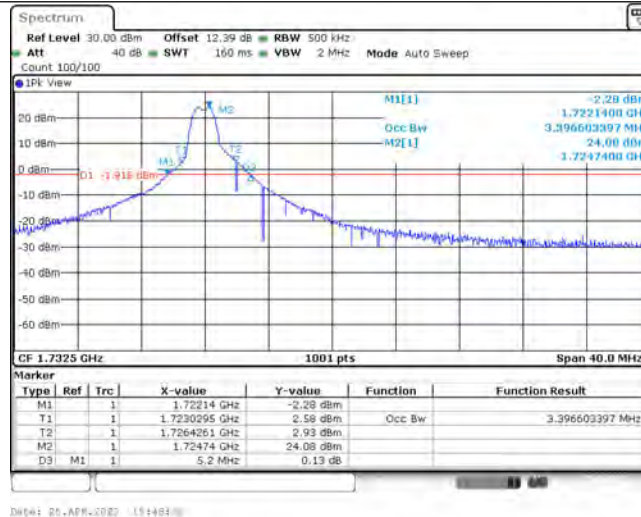
Band4-20MHz-QPSK-20175-6-0-Low-3.437-5.160-PASS



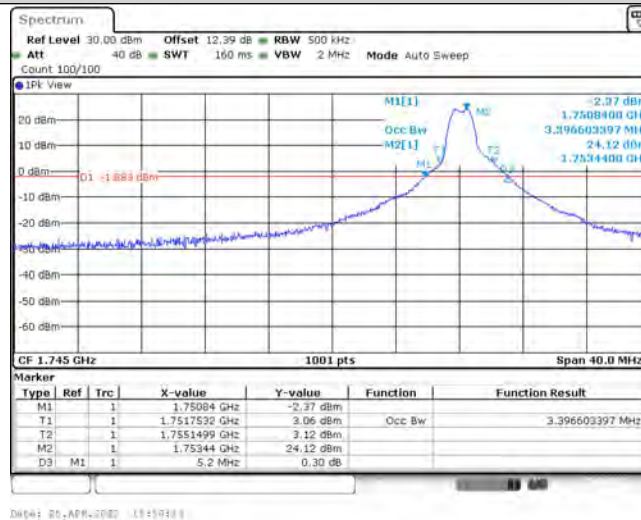
Band4-20MHz-QPSK-20300-6-0-High-3.397-5.160-PASS



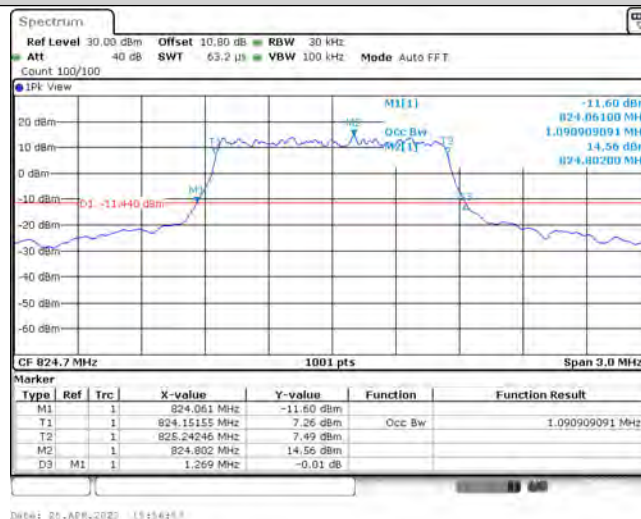
Band4-20MHz-16QAM-20050-6-0-Low-2.957-4.640-PASS



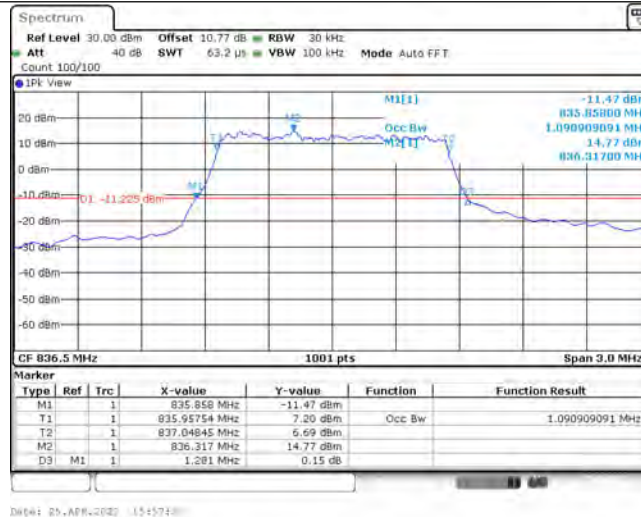
Band4-20MHz-16QAM-20175-6-0-Low-3.397-5.200-PASS



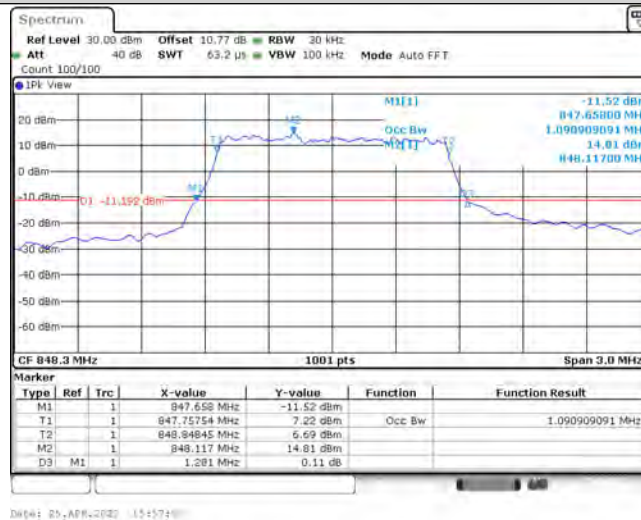
Band4-20MHz-16QAM-20300-6-0-High-3.397-5.200-PASS



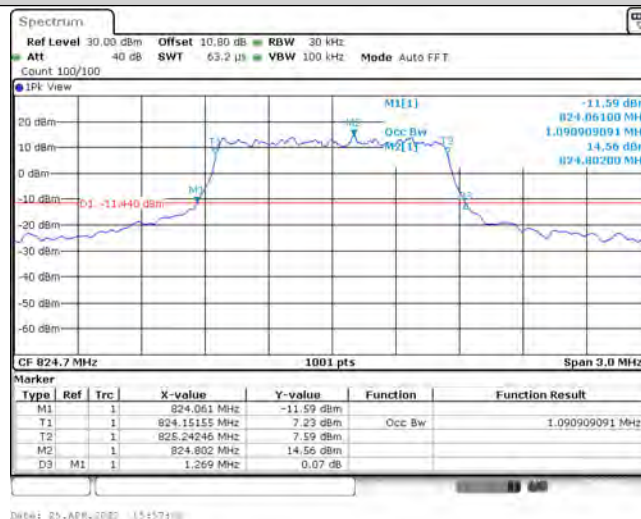
Band5-1.4MHz-QPSK-20407-6-0-Low-1.091-1.269-PASS



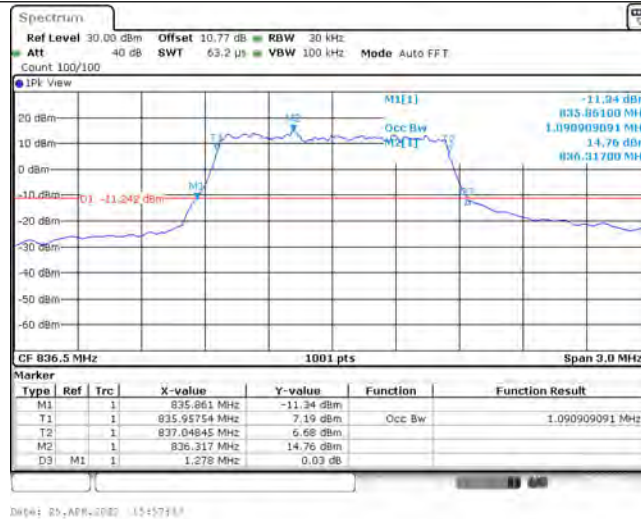
Band5-1.4MHz-QPSK-20525-6-0-Low-1.091-1.281-PASS



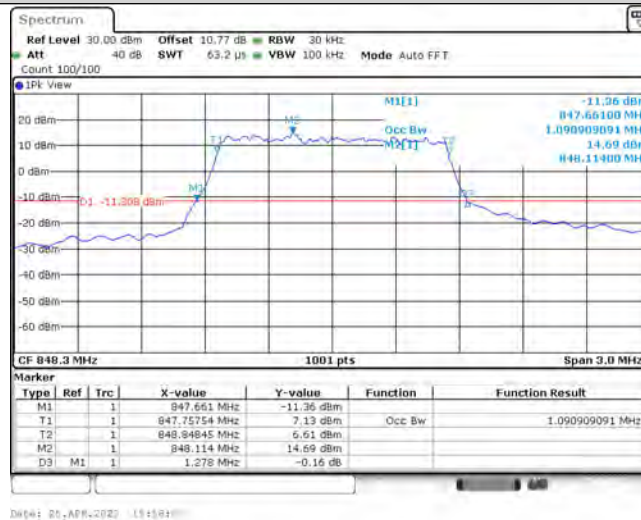
Band5-1.4MHz-QPSK-20643-6-0-High-1.091-1.281-PASS



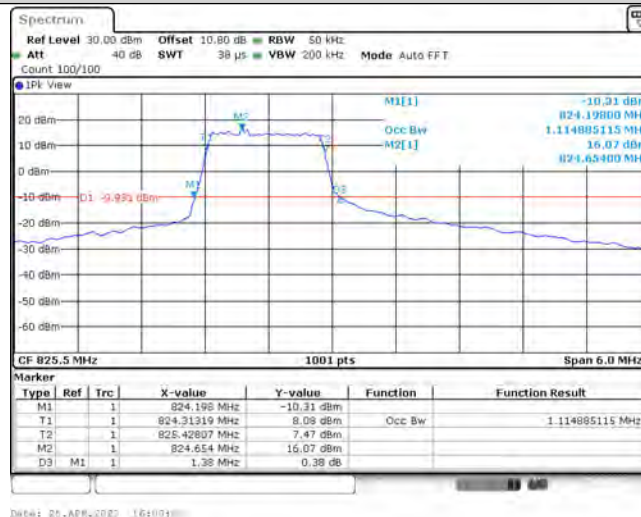
Band5-1.4MHz-16QAM-20407-6-0-Low-1.091-1.269-PASS



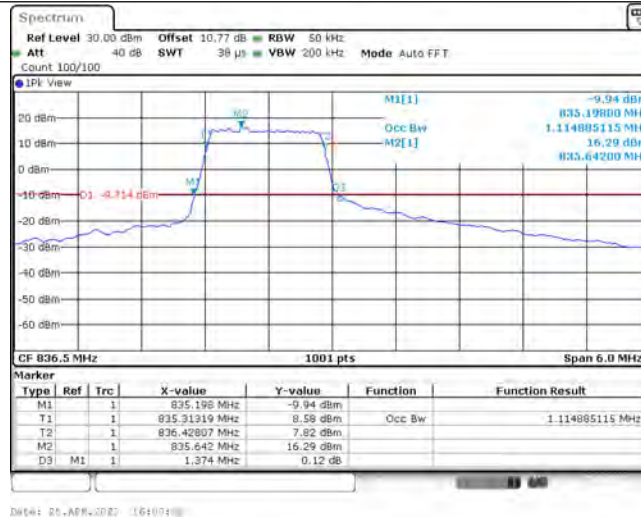
Band5-1.4MHz-16QAM-20525-6-0-Low-1.091-1.278-PASS



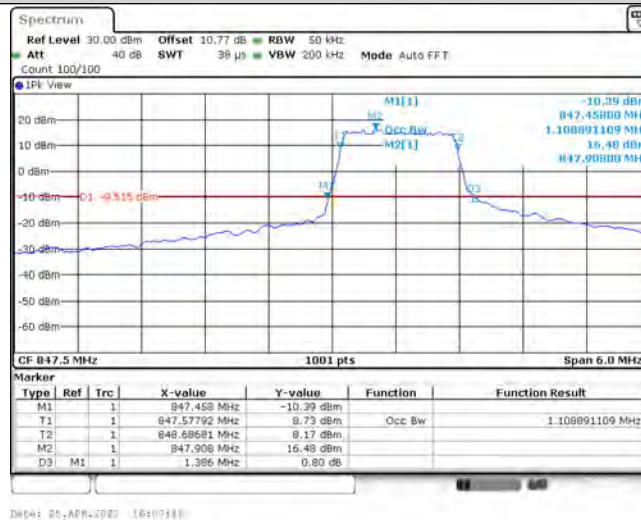
Band5-1.4MHz-16QAM-20643-6-0-High-1.091-1.278-PASS



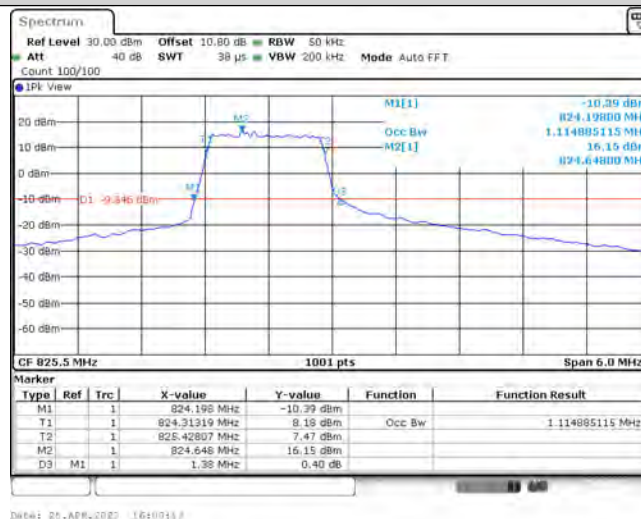
Band5-3MHz-QPSK-20415-6-0-Low-1.115-1.380-PASS



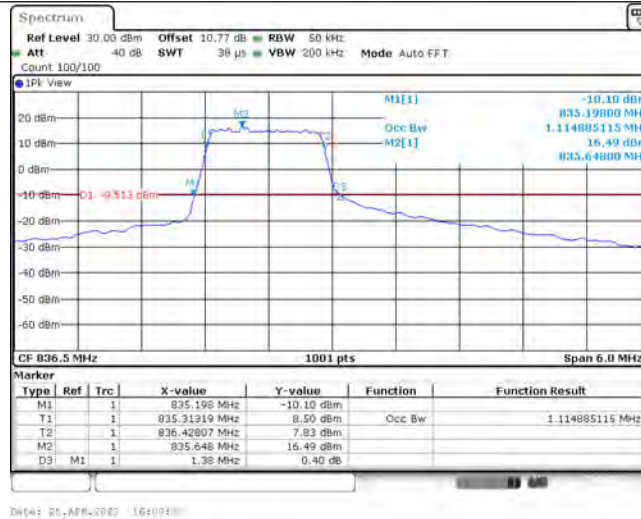
Band5-3MHz-QPSK-20525-6-0-Low-1.115-1.374-PASS



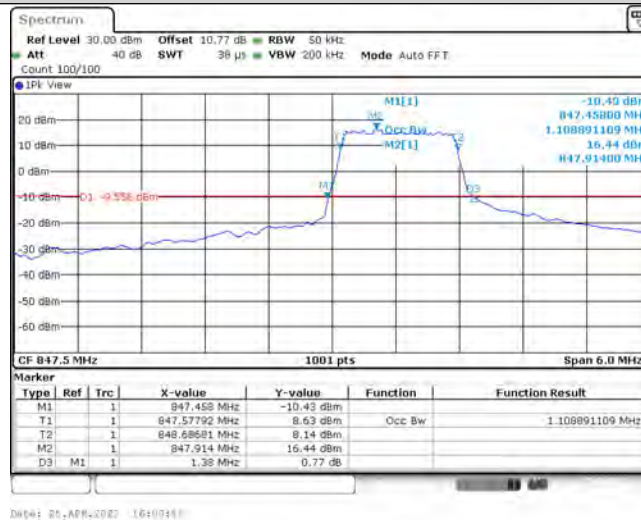
Band5-3MHz-QPSK-20635-6-0-High-1.109-1.386-PASS



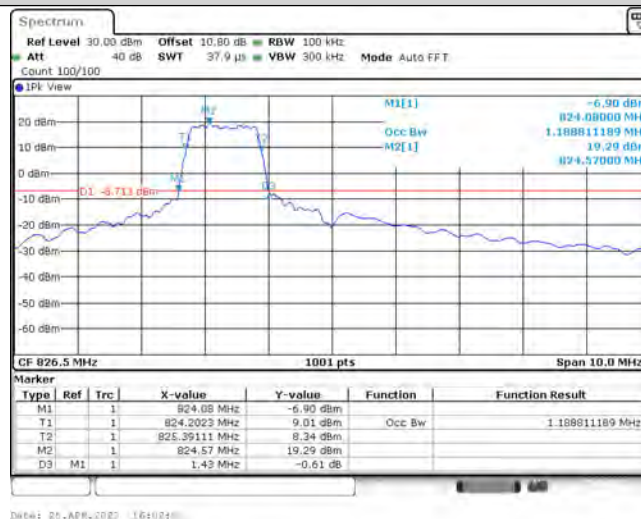
Band5-3MHz-16QAM-20415-6-0-Low-1.115-1.380-PASS



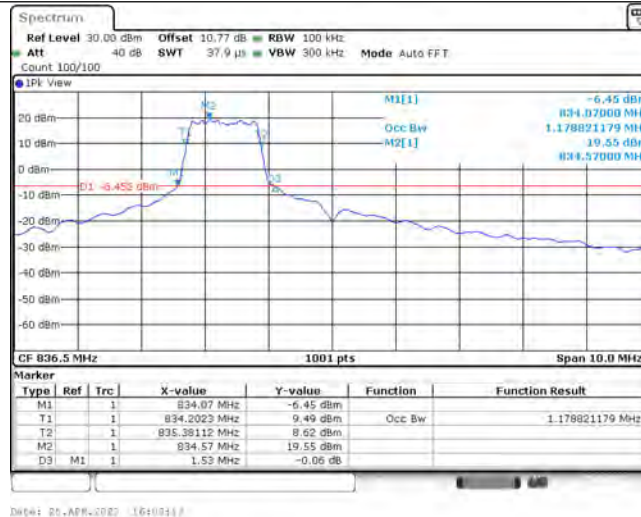
Band5-3MHz-16QAM-20525-6-0-Low-1.115-1.380-PASS



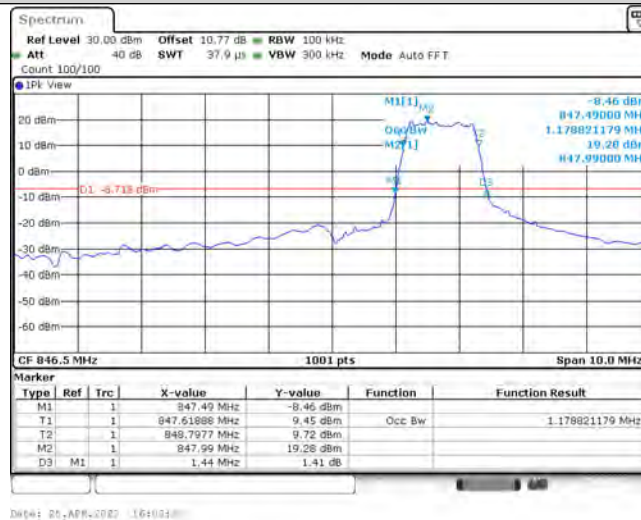
Band5-3MHz-16QAM-20635-6-0-High-1.109-1.380-PASS



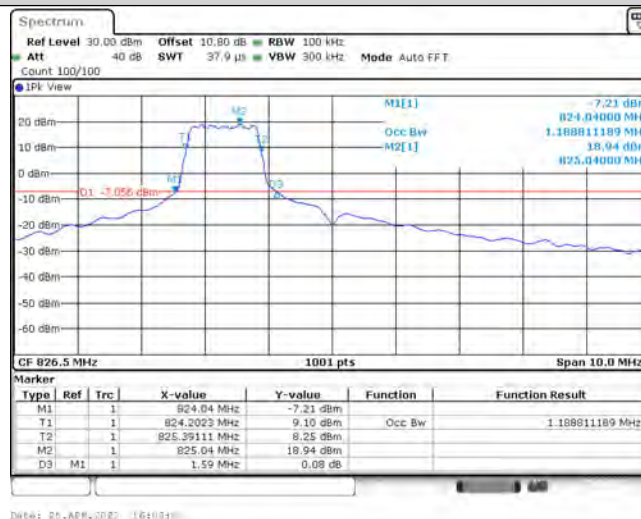
Band5-5MHz-QPSK-20425-6-0-Low-1.189-1.430-PASS



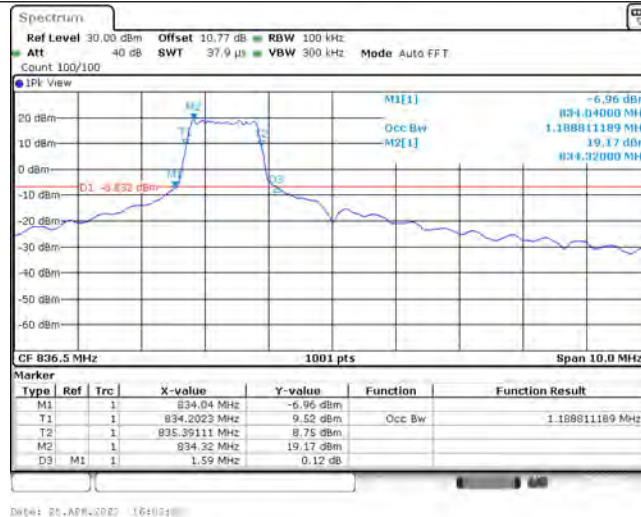
Band5-5MHz-QPSK-20525-6-0-Low-1.179-1.530-PASS



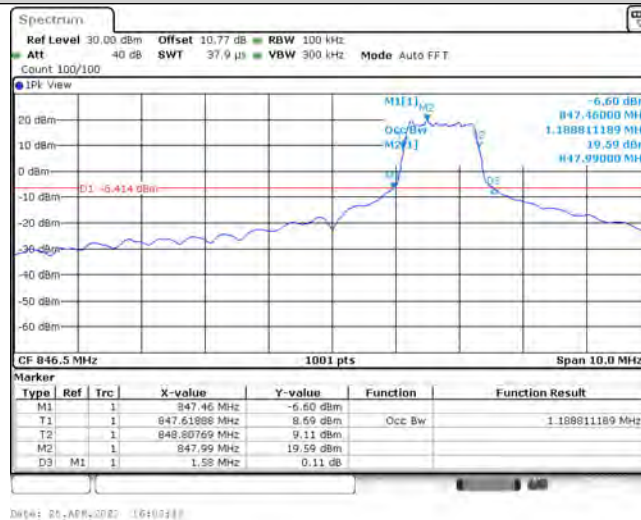
Band5-5MHz-QPSK-20625-6-0-High-1.179-1.440-PASS



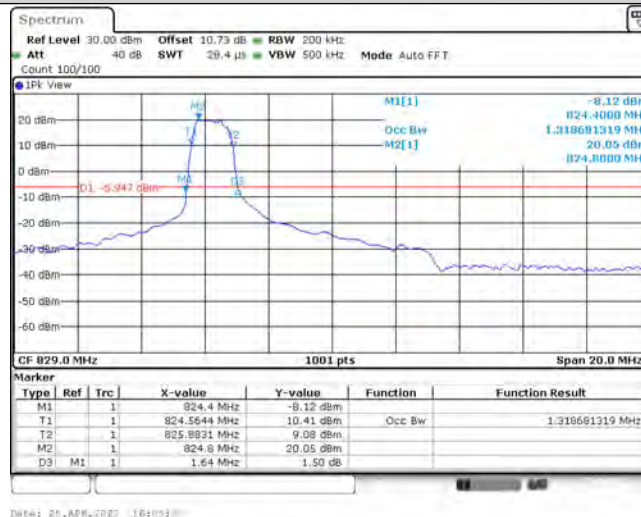
Band5-5MHz-16QAM-20425-6-0-Low-1.189-1.590-PASS



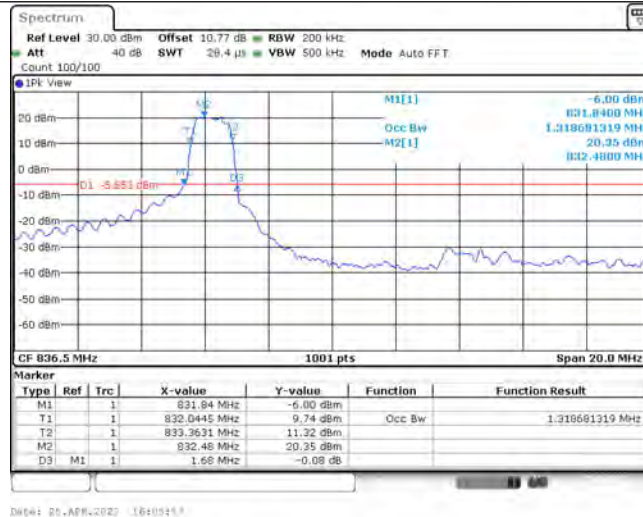
Band5-5MHz-16QAM-20525-6-0-Low-1.189-1.590-PASS



Band5-5MHz-16QAM-20625-6-0-High-1.189-1.580-PASS



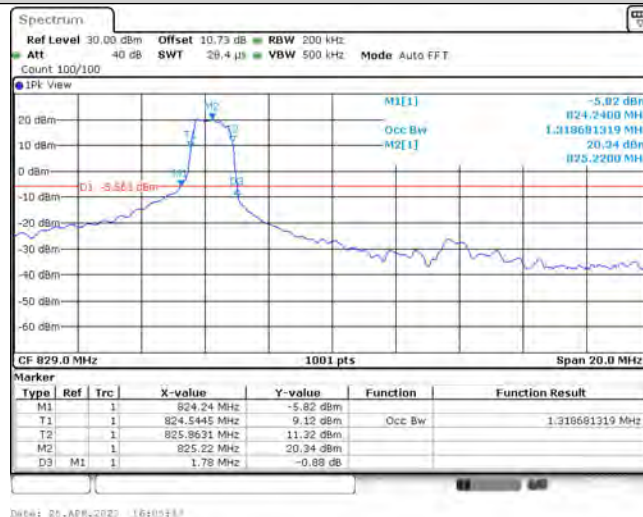
Band5-10MHz-QPSK-20450-6-0-Low-1.319-1.640-PASS



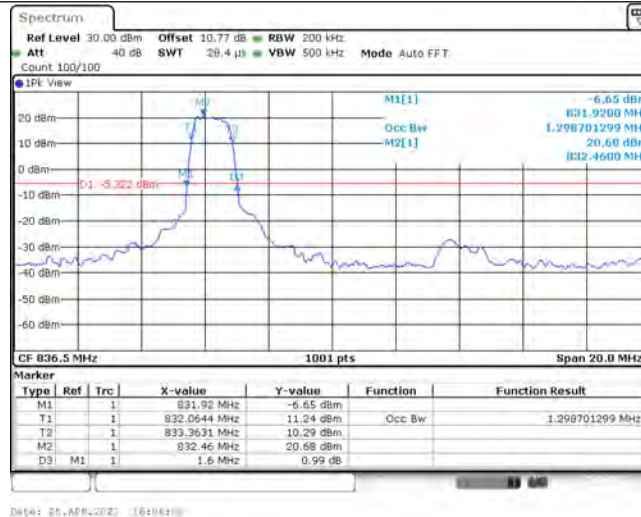
Band5-10MHz-QPSK-20525-6-0-Low-1.319-1.680-PASS



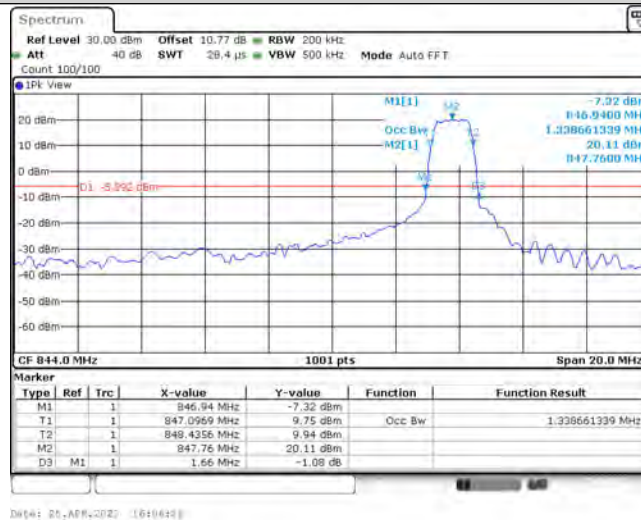
Band5-10MHz-QPSK-20600-6-0-High-1.359-1.980-PASS



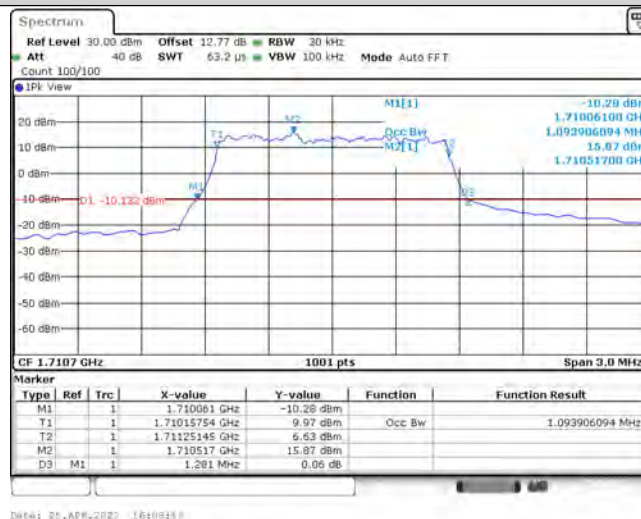
Band5-10MHz-16QAM-20450-6-0-Low-1.319-1.780-PASS



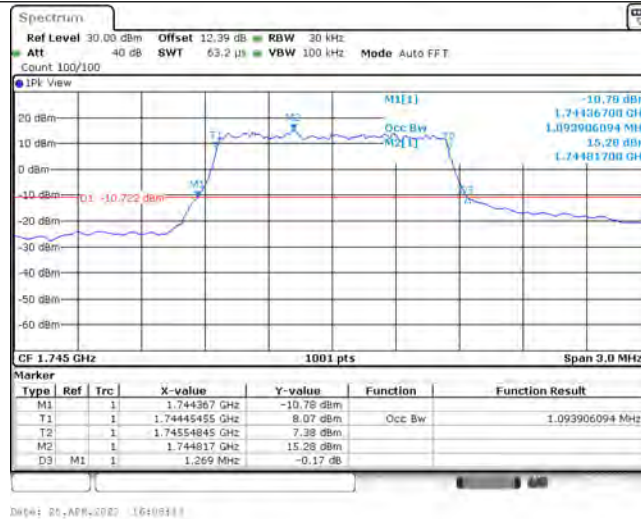
Band5-10MHz-16QAM-20525-6-0-Low-1.299-1.600-PASS



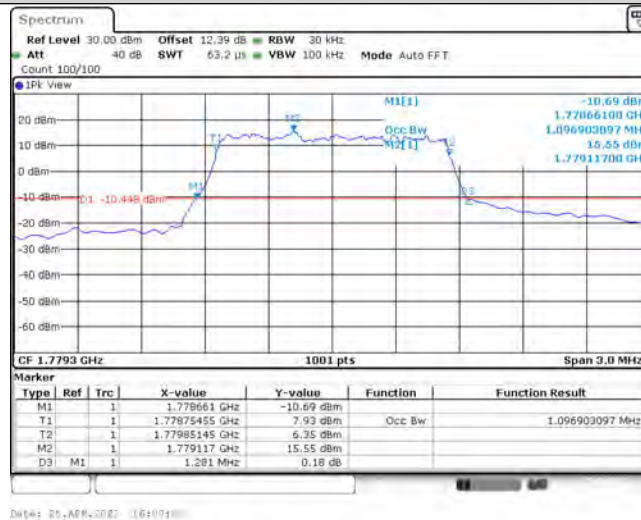
Band5-10MHz-16QAM-20600-6-0-High-1.339-1.660-PASS



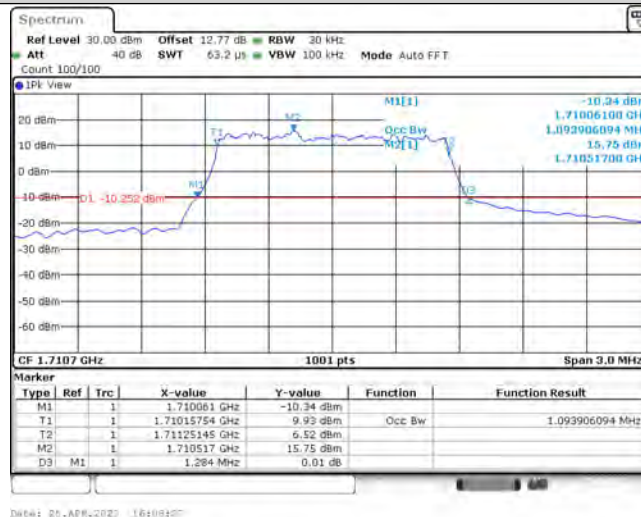
Band66-1.4MHz-QPSK-131979-6-0-Low-1.094-1.281-PASS



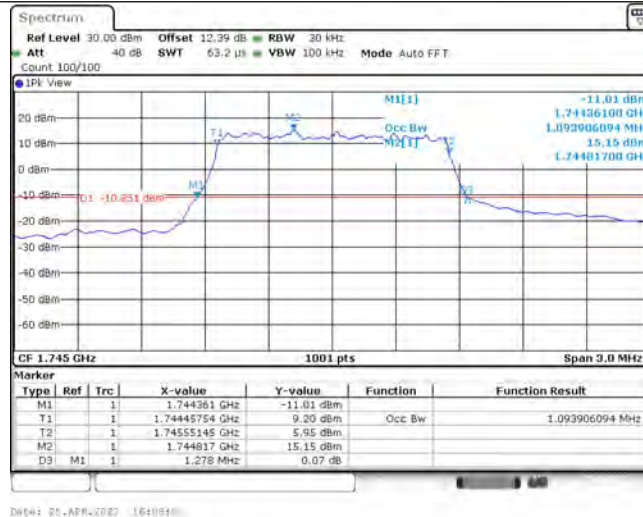
Band66-1.4MHz-QPSK-132322-6-0-Low-1.094-1.269-PASS



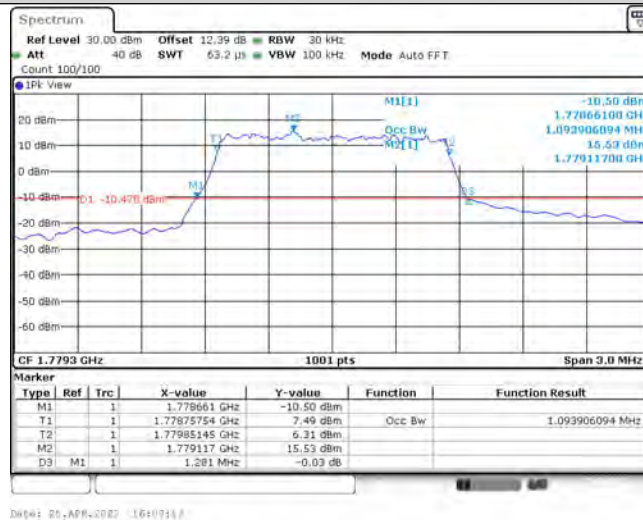
Band66-1.4MHz-QPSK-132665-6-0-High-1.097-1.281-PASS



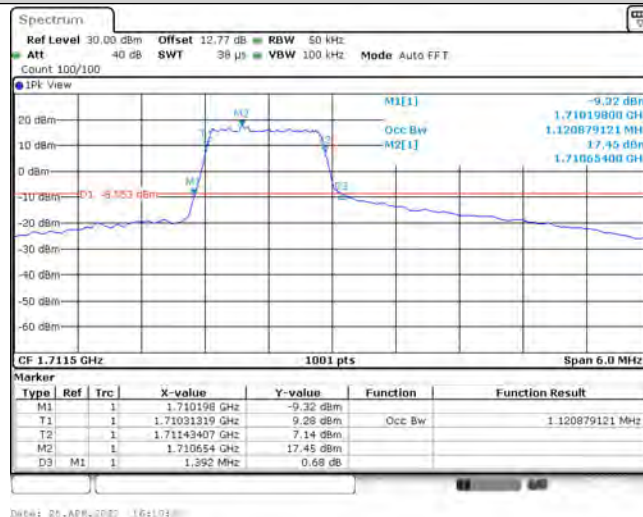
Band66-1.4MHz-16QAM-131979-6-0-Low-1.094-1.284-PASS



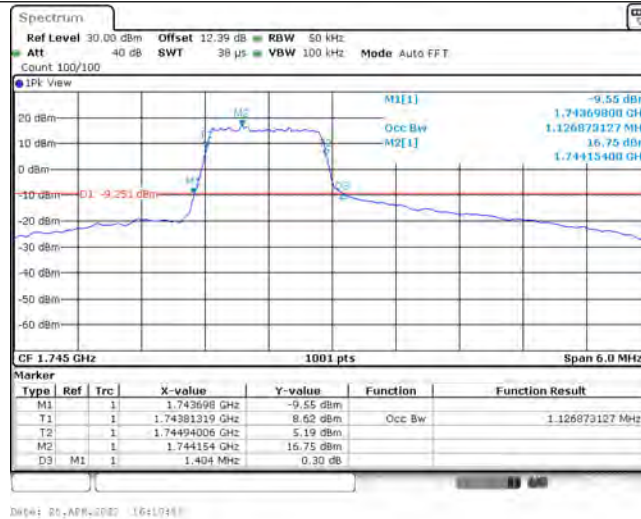
Band66-1.4MHz-16QAM-132322-6-0-Low-1.094-1.278-PASS



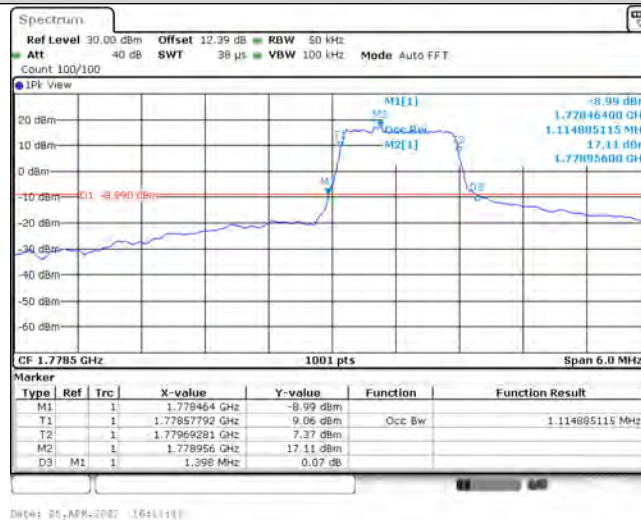
Band66-1.4MHz-16QAM-132665-6-0-High-1.094-1.281-PASS



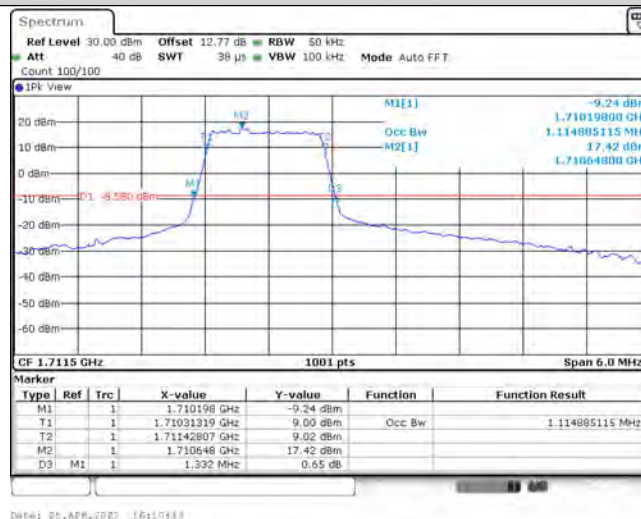
Band66-3MHz-QPSK-131987-6-0-Low-1.121-1.392-PASS



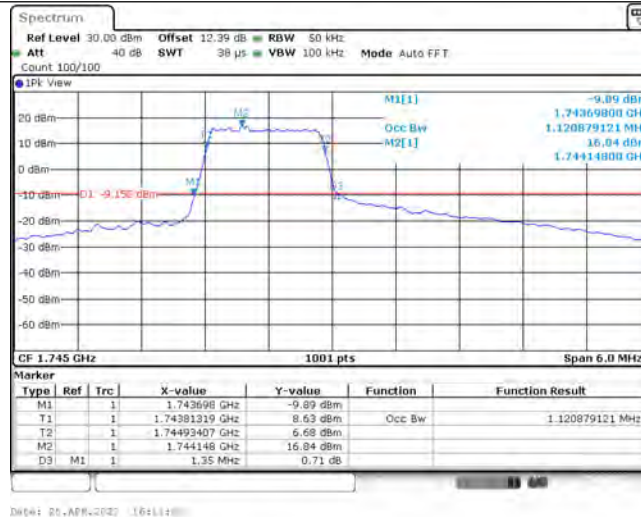
Band66-3MHz-QPSK-132322-6-0-Low-1.127-1.404-PASS



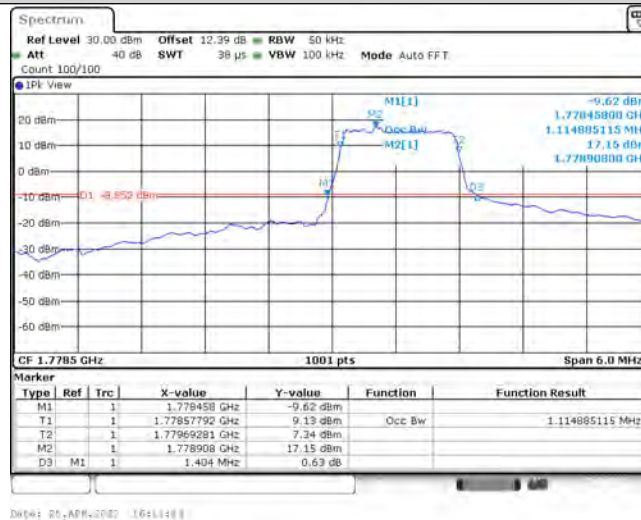
Band66-3MHz-QPSK-132657-6-0-High-1.115-1.398-PASS



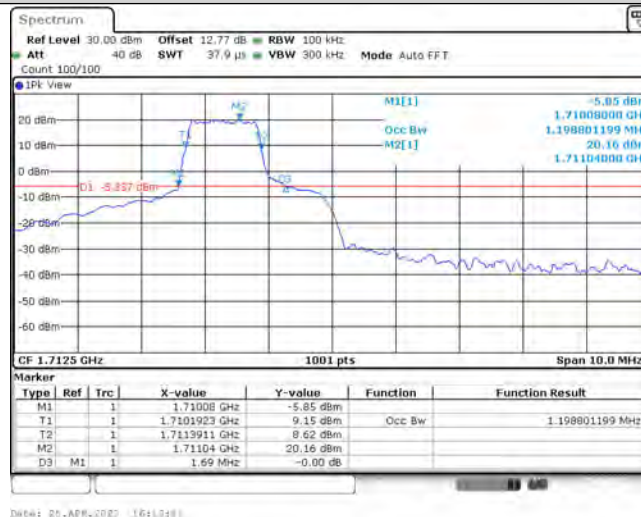
Band66-3MHz-16QAM-131987-6-0-Low-1.115-1.332-PASS



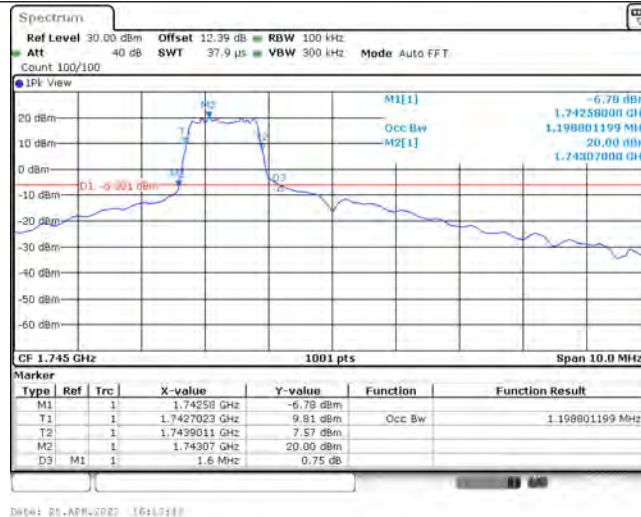
Band66-3MHz-16QAM-132322-6-0-Low-1.121-1.350-PASS



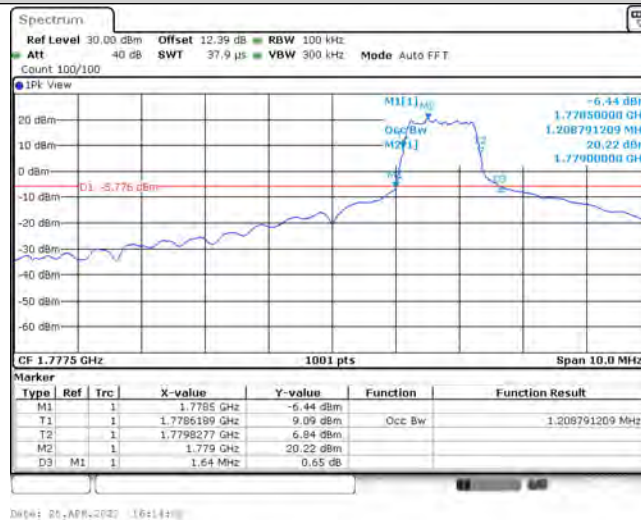
Band66-3MHz-16QAM-132657-6-0-High-1.115-1.404-PASS



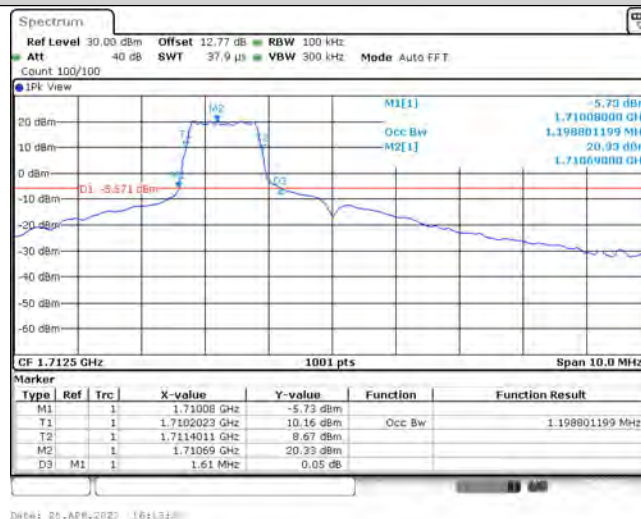
Band66-5MHz-QPSK-131997-6-0-Low-1.199-1.690-PASS



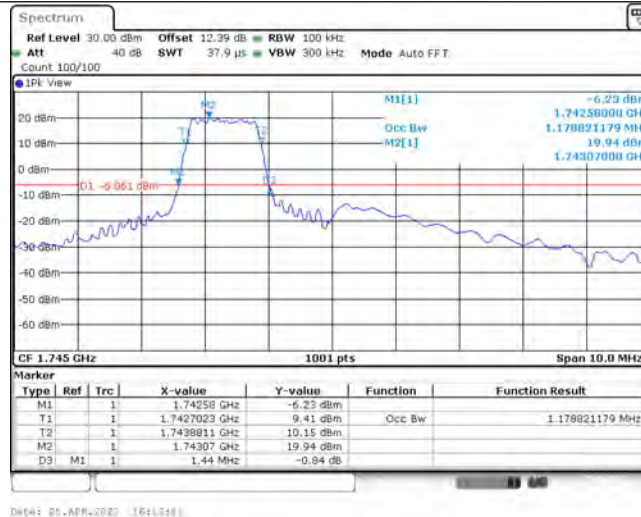
Band66-5MHz-QPSK-132322-6-0-Low-1.199-1.600-PASS



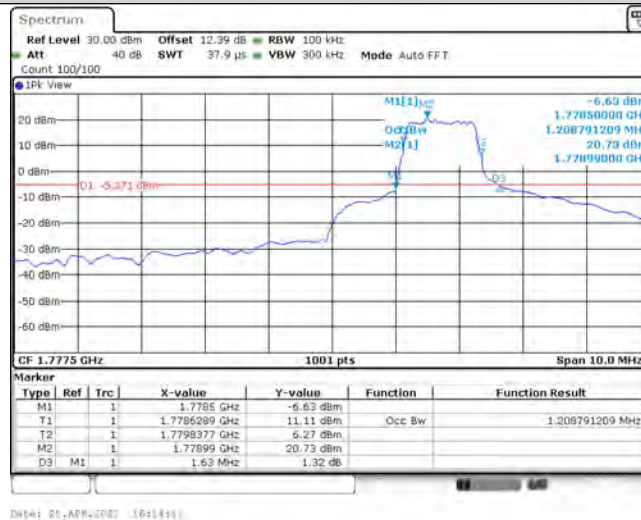
Band66-5MHz-QPSK-132647-6-0-High-1.209-1.640-PASS



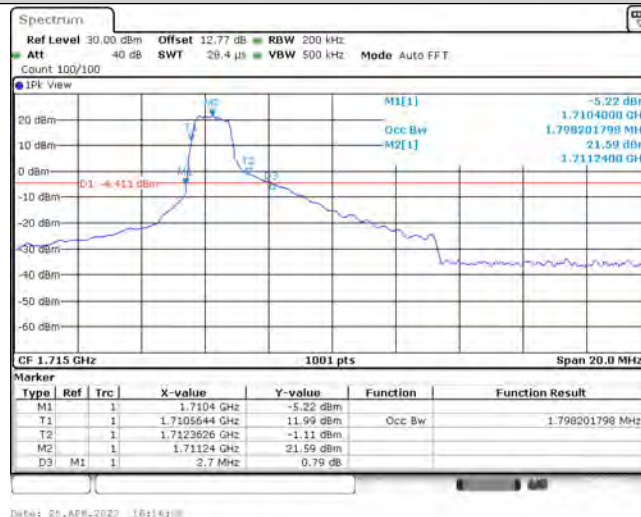
Band66-5MHz-16QAM-131997-6-0-Low-1.199-1.610-PASS



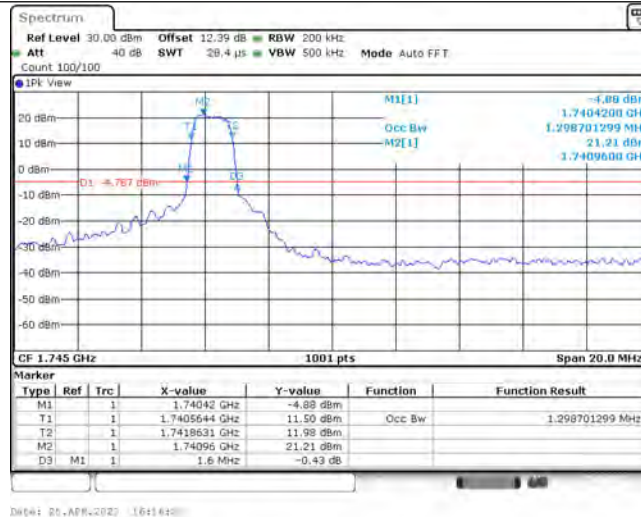
Band66-5MHz-16QAM-132322-6-0-Low-1.179-1.440-PASS



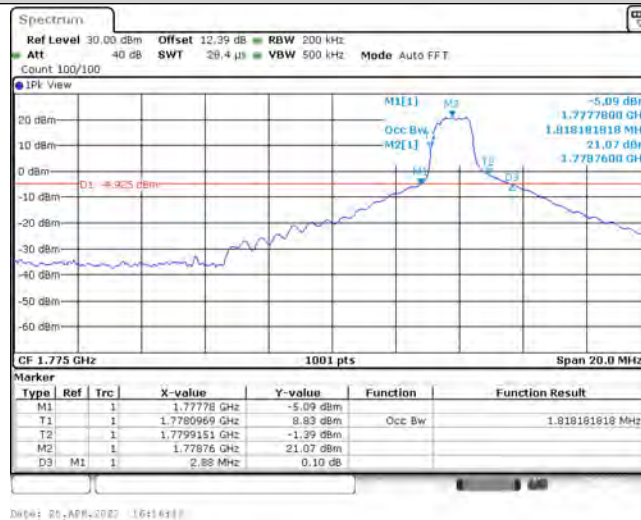
Band66-5MHz-16QAM-132647-6-0-High-1.209-1.630-PASS



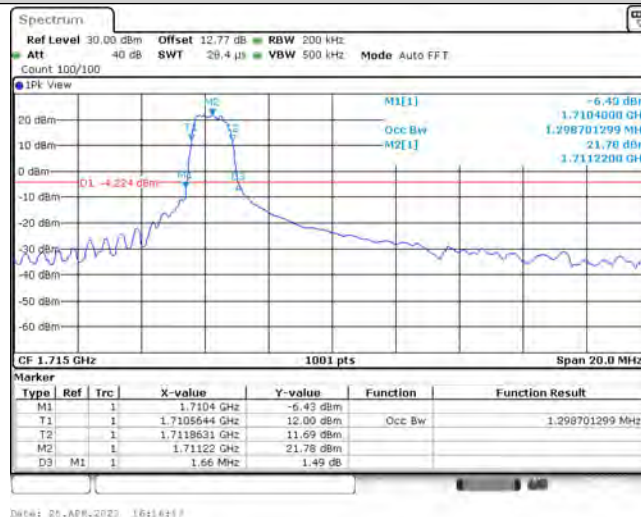
Band66-10MHz-QPSK-132022-6-0-Low-1.798-2.700-PASS



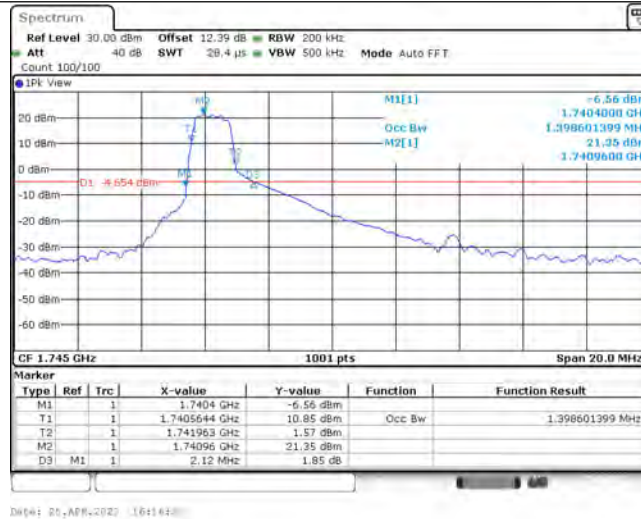
Band66-10MHz-QPSK-132322-6-0-Low-1.299-1.600-PASS



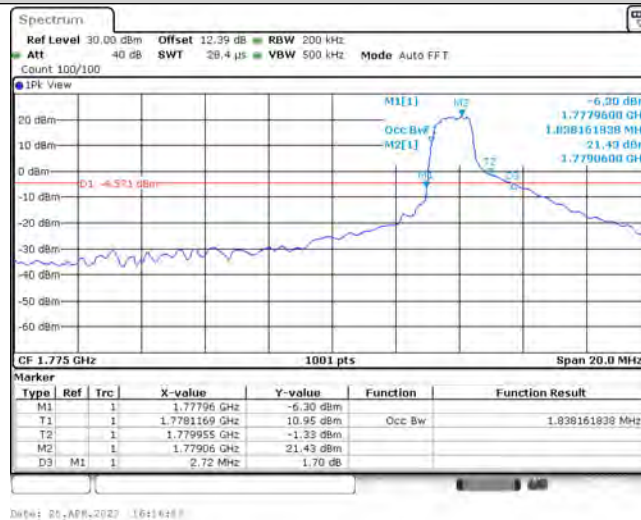
Band66-10MHz-QPSK-132622-6-0-High-1.818-2.880-PASS



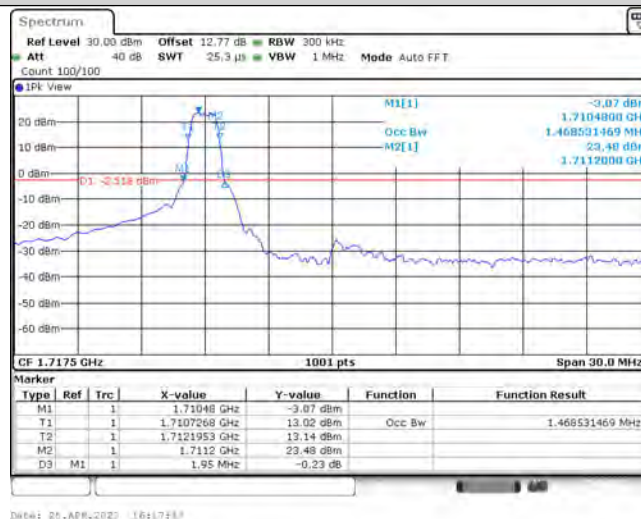
Band66-10MHz-16QAM-132022-6-0-Low-1.299-1.660-PASS



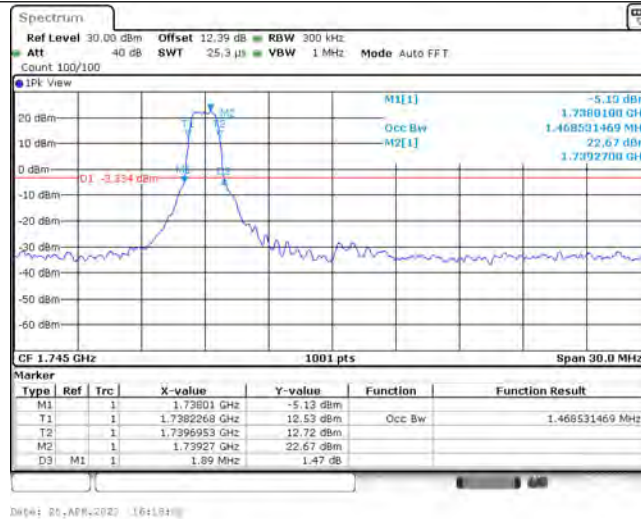
Band66-10MHz-16QAM-132322-6-0-Low-1.399-2.120-PASS



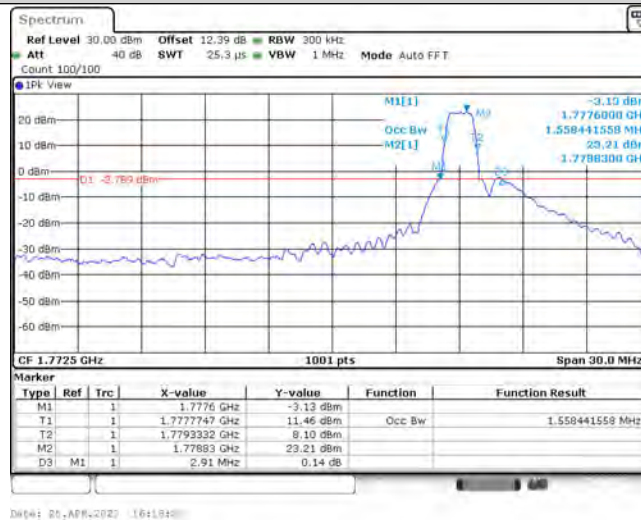
Band66-10MHz-16QAM-132622-6-0-High-1.838-2.720-PASS



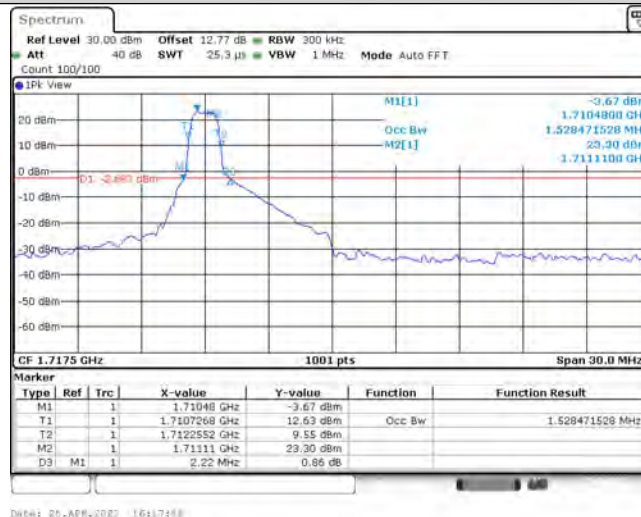
Band66-15MHz-QPSK-132047-6-0-Low-1.469-1.950-PASS



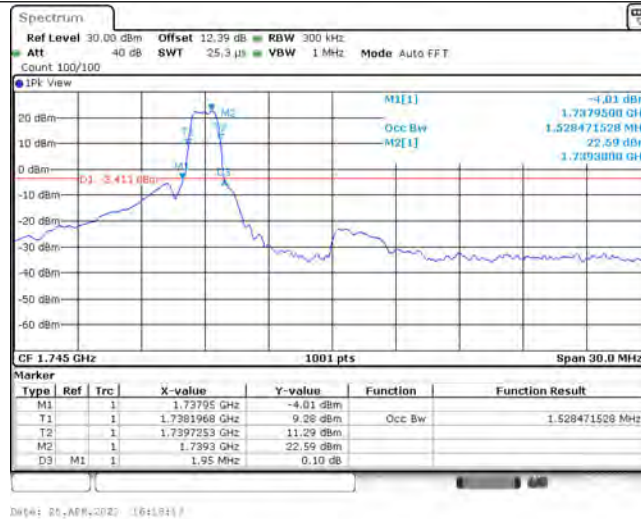
Band66-15MHz-QPSK-132322-6-0-Low-1.469-1.890-PASS



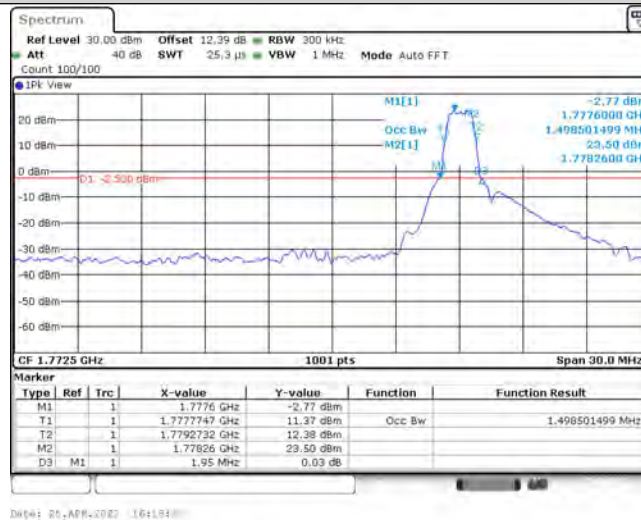
Band66-15MHz-QPSK-132597-6-0-High-1.558-2.910-PASS



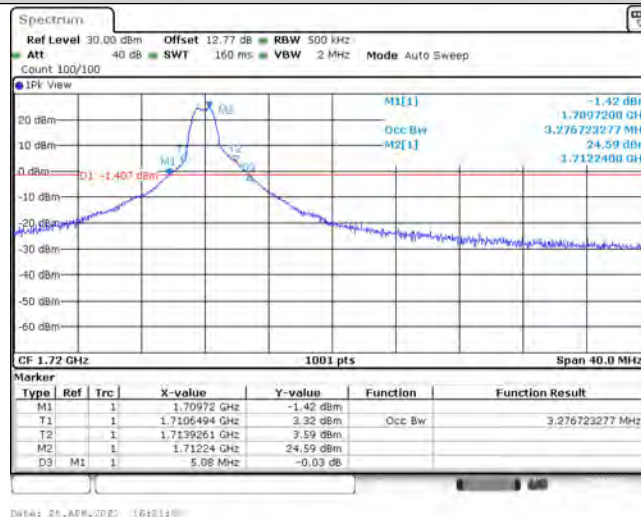
Band66-15MHz-16QAM-132047-6-0-Low-1.528-2.220-PASS



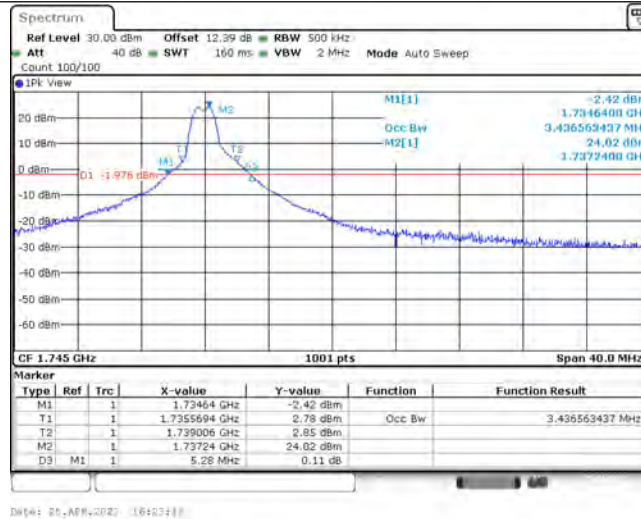
Band66-15MHz-16QAM-132322-6-0-Low-1.528-1.950-PASS



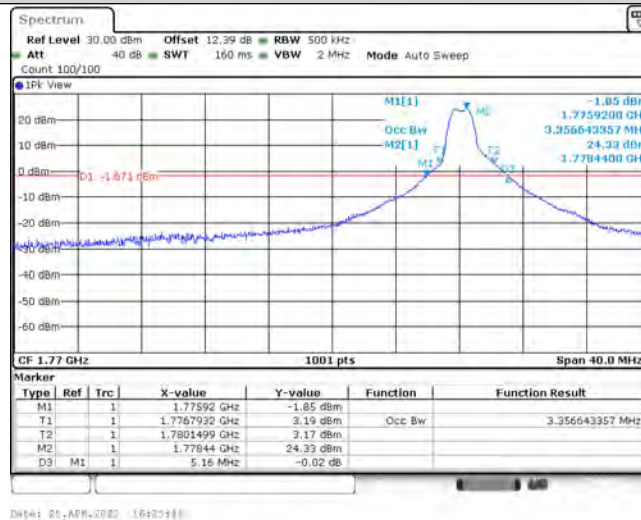
Band66-15MHz-16QAM-132597-6-0-High-1.499-1.950-PASS



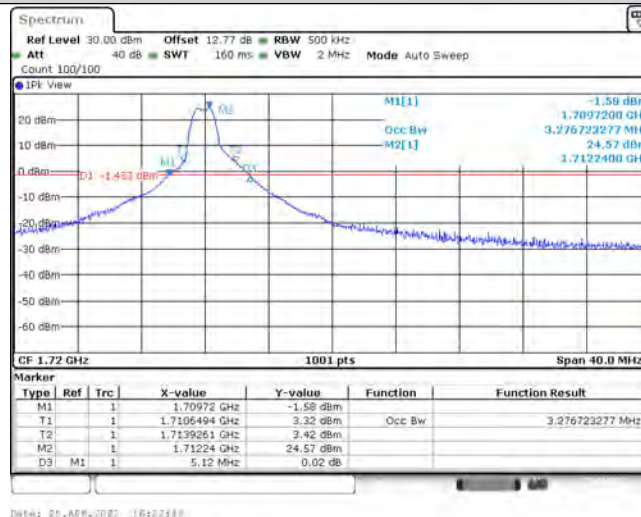
Band66-20MHz-QPSK-132072-6-0-Low-3.277-5.080-PASS



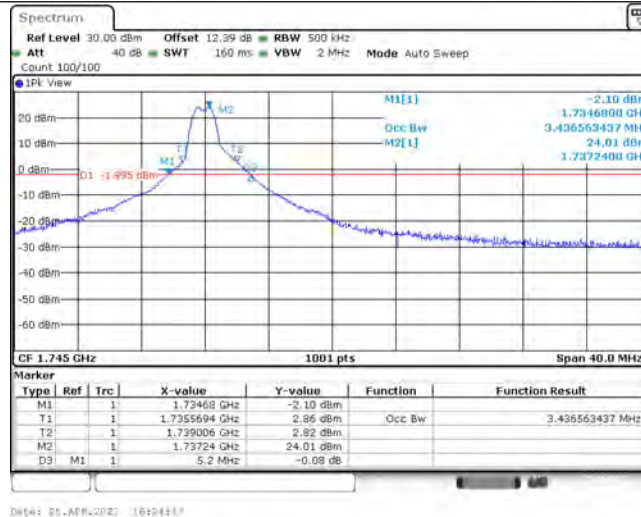
Band66-20MHz-QPSK-132322-6-0-Low-3.437-5.280-PASS



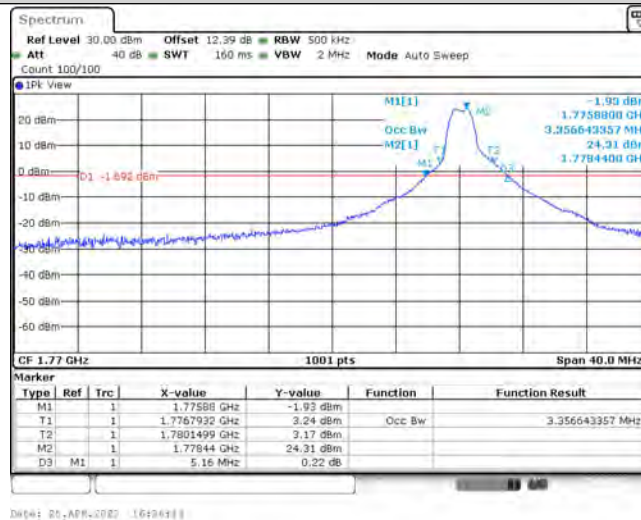
Band66-20MHz-QPSK-132572-6-0-High-3.357-5.160-PASS



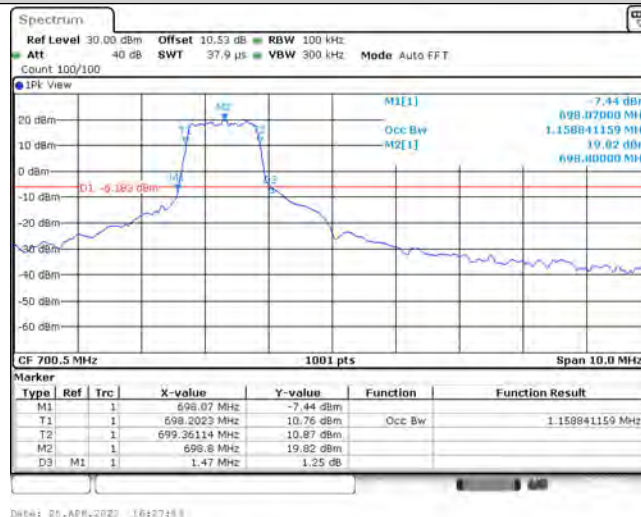
Band66-20MHz-16QAM-132072-6-0-Low-3.277-5.120-PASS



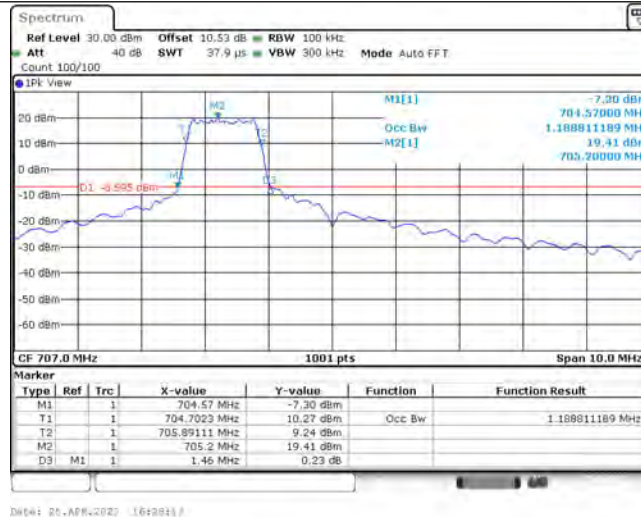
Band66-20MHz-16QAM-132322-6-0-Low-3.437-5.200-PASS



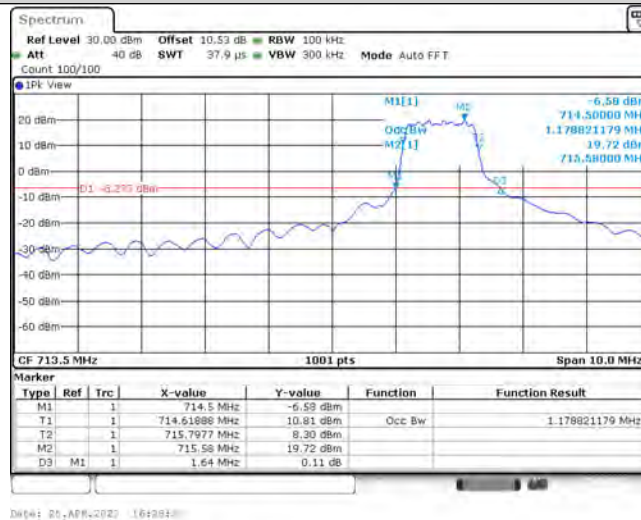
Band66-20MHz-16QAM-132572-6-0-High-3.357-5.160-PASS



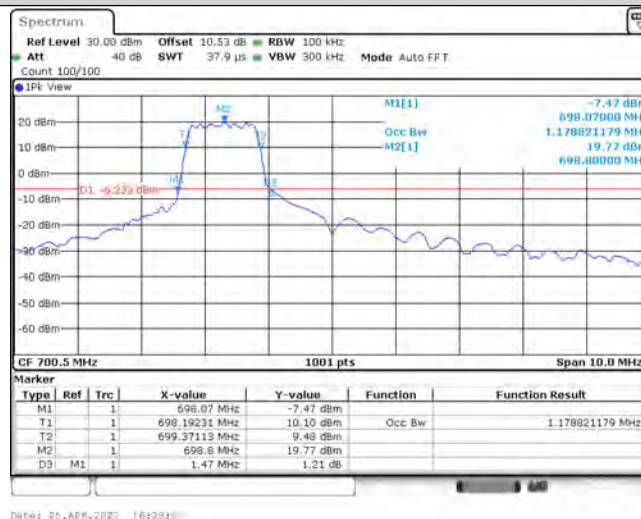
Band85-5MHz-QPSK-134027-6-0-Low-1.159-1.470-PASS



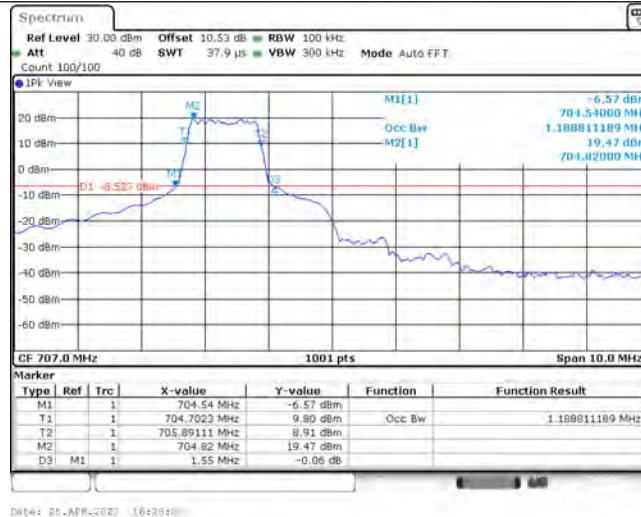
Band85-5MHz-QPSK-134092-6-0-Low-1.189-1.460-PASS



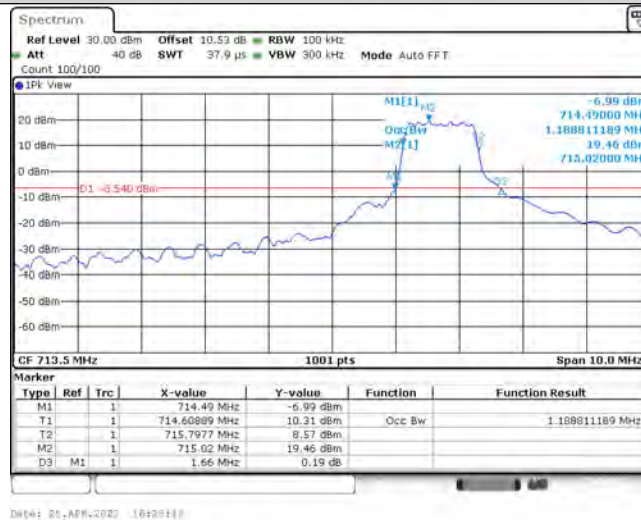
Band85-5MHz-QPSK-134157-6-0-High-1.179-1.640-PASS



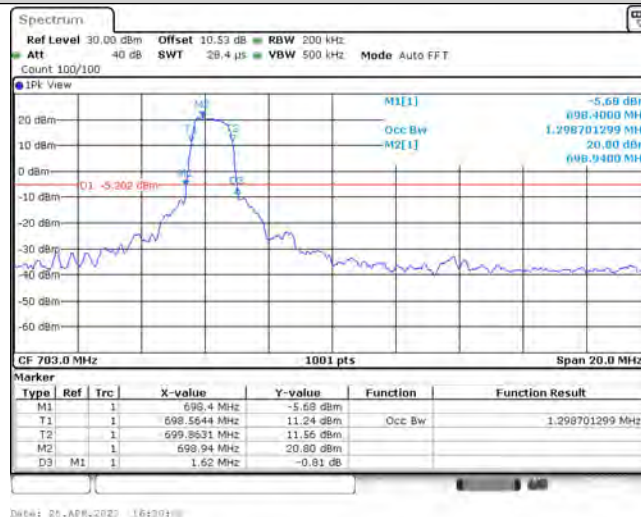
Band85-5MHz-16QAM-134027-6-0-Low-1.179-1.470-PASS



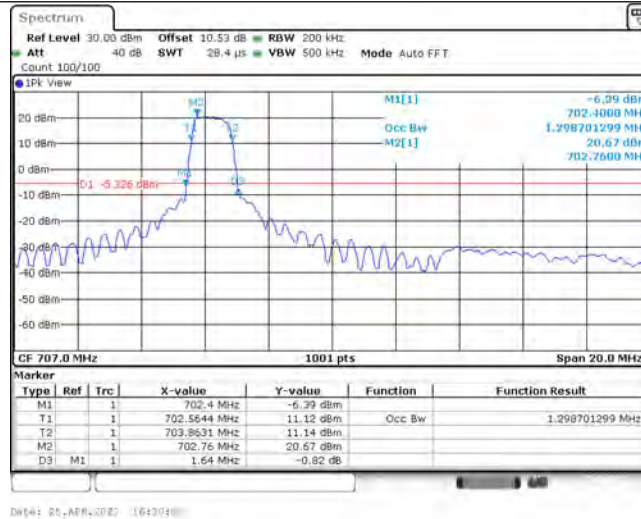
Band85-5MHz-16QAM-134092-6-0-Low-1.189-1.550-PASS



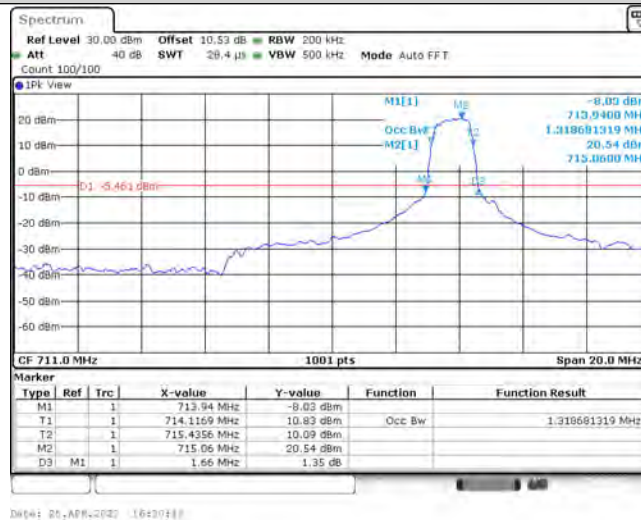
Band85-5MHz-16QAM-134157-6-0-High-1.189-1.660-PASS



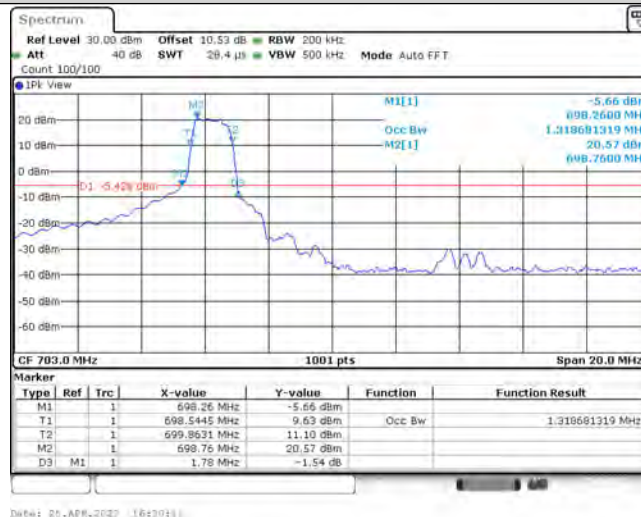
Band85-10MHz-QPSK-134052-6-0-Low-1.299-1.620-PASS



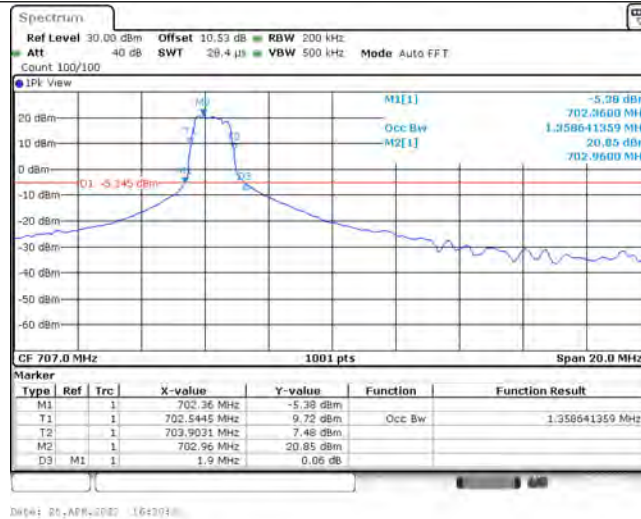
Band85-10MHz-QPSK-134092-6-0-Low-1.299-1.640-PASS



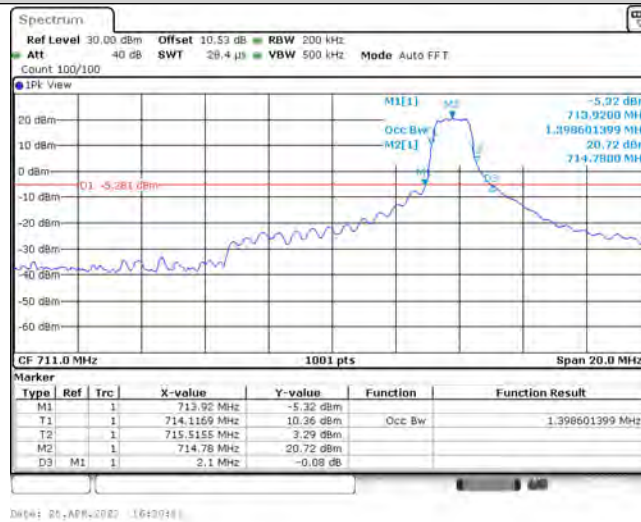
Band85-10MHz-QPSK-134132-6-0-High-1.319-1.660-PASS



Band85-10MHz-16QAM-134052-6-0-Low-1.319-1.780-PASS



Band85-10MHz-16QAM-134092-6-0-Low-1.359-1.900-PASS



Band85-10MHz-16QAM-134132-6-0-High-1.399-2.100-PASS

4.5 Conducted Band Edge and Emission Mask

4.5.1 Description of Conducted Band Edge and Emission Measurement

The transmitter output was connected to a calibrated coaxial cable, attenuator and Spectrum analyser, the other end of which was connected to a Base Station Simulator. The Base Station Simulator was set to force the EUT to its maximum power setting. The tests were performed at three frequencies (low channel and high channel).in the 1MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of 100kHz or 1% of the emission bandwidth of the fundamental emission of the transmitter may be employed. The EUT emission bandwidth is measured as the width of the signal between two points, outside of which all emission are attenuated at least 26dB below the transmitter power. The video bandwidth of the spectrum analyzer was set at thrice the resolution bandwidth. Detector Mode was set to peak or peak hold power.

4.5.2 Limit

FCC: §22.359, §22.917, §24.238, §27.53

IC: RSS-130 4.7, RSS-132 5.5, RSS-133 6.5, RSS-139 6.6

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log (P)$ dB.

FCC: §27.53

(c) For operations in the 776-788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following: (2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log (P)$ dB;(4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $65 + 10 \log (P)$ dB in a 6.25 kHz band segment, for mobile and portable stations; (5) Compliance with the provisions of paragraphs (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed; (6) Compliance with the provisions of paragraphs (c)(4) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

FCC: §27.53

(m)(6) Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 MHz

bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed; for mobile digital stations, in the 1 megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed, except when the 1 megahertz band is 2495-2496 MHz, in which case a resolution bandwidth of at least one percent may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 megahertz or 1 percent of emission bandwidth, as specified; or 1 megahertz or 2 percent for mobile digital stations, except in the band 2495-2496 MHz). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. With respect to television operations, measurements must be made of the separate visual and aural operating powers at sufficiently frequent intervals to ensure compliance with the rules.

(m)(4) For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees. Show citation box.

4.5.3 Test Procedures

1. The testing follows ANSI C63.26 Section 5.7.
2. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
3. Start and stop frequency were set such that the band edge would be placed in the center of the plot
4. Span was set large enough so as to capture all out of band emissions near the band edge
5. $RBW \geq 1\%$ of the emission bandwidth
6. $VBW \geq 3 \times RBW$
7. Detector = RMS
8. Number of sweep points $\geq 2 \times \text{Span}/RBW$
9. Trace mode = trace average for continuous emissions, max hold for pulse emissions
10. Sweep time = auto couple
11. The trace was allowed to stabilize

12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
13. Checked that all the results comply with the emission limit line.

Example:

The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)

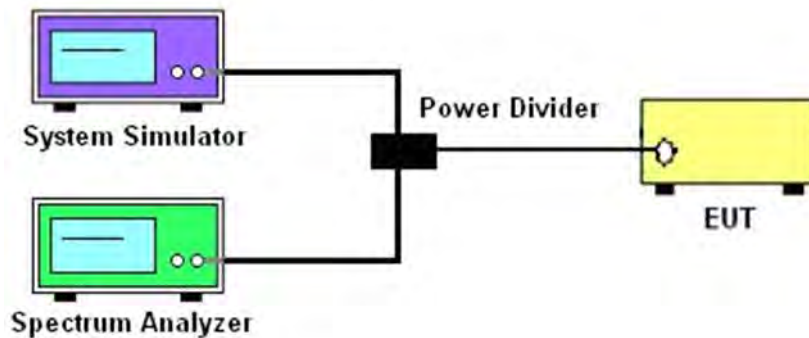
$$= P(W) - [43 + 10\log(P)] \text{ (dB)}$$

$$= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$$

$$= -13\text{dBm}.$$

For LTE Band 7, 38, 41, the other 40 dB, and 55 dB have additionally applied same calculation above.

4.5.4 Test Setup

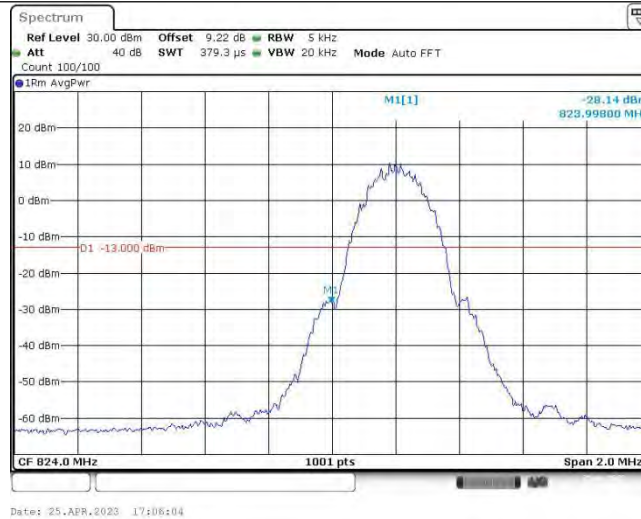


4.5.5 Test Results

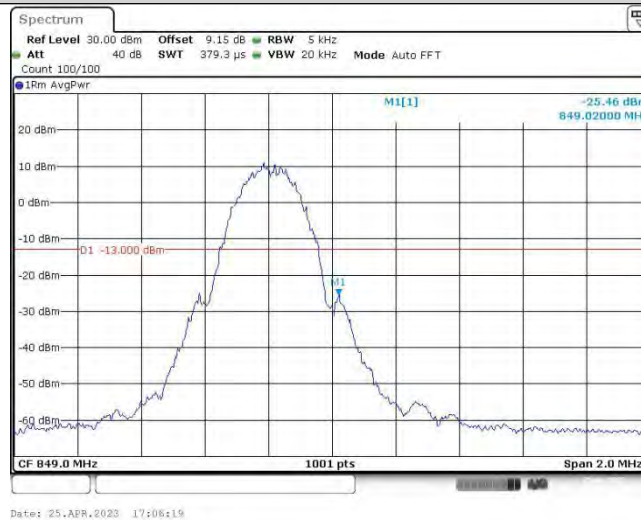
GSM Test Result

Band	Channel	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GPRS850	128	824.00	-26.82	-13	PASS
GPRS850	251	849.02	-25.88	-13	PASS
EGPRS850	128	823.99	-18.71	-13	PASS
EGPRS850	251	849.04	-20.34	-13	PASS
GPRS1900	512	1850.00	-15.89	-13	PASS
GPRS1900	810	1910.02	-14.98	-13	PASS
EGPRS1900	512	1849.99	-20.08	-13	PASS
EGPRS1900	810	1910.04	-20.72	-13	PASS

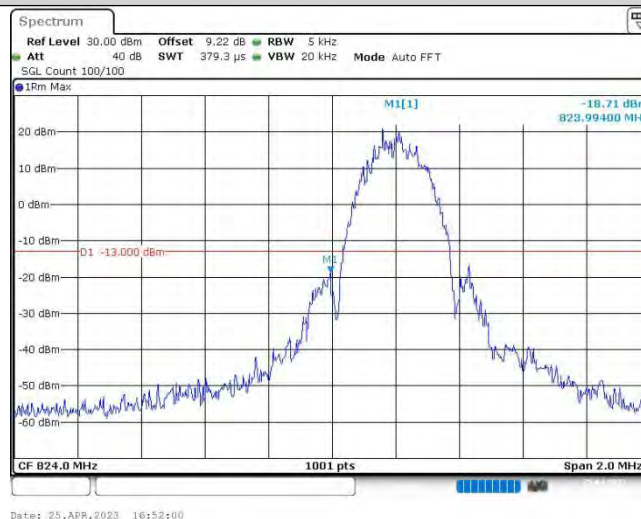
GSM Test Graphs



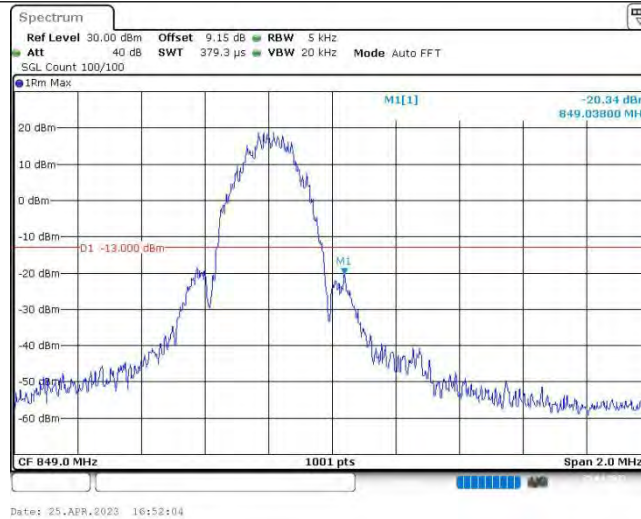
GPRS850-128



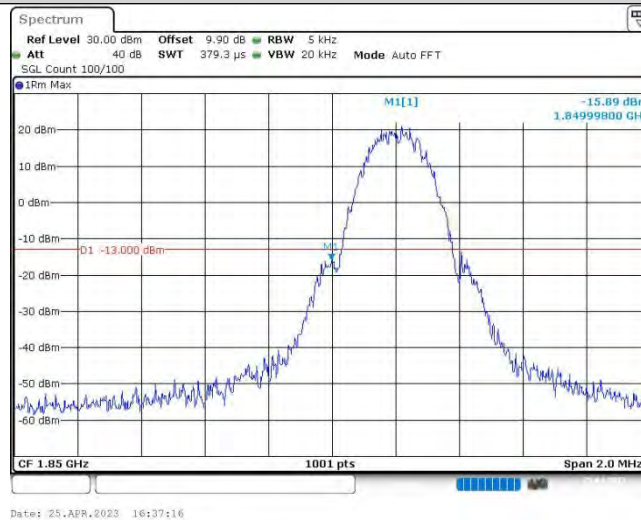
GPRS850-251



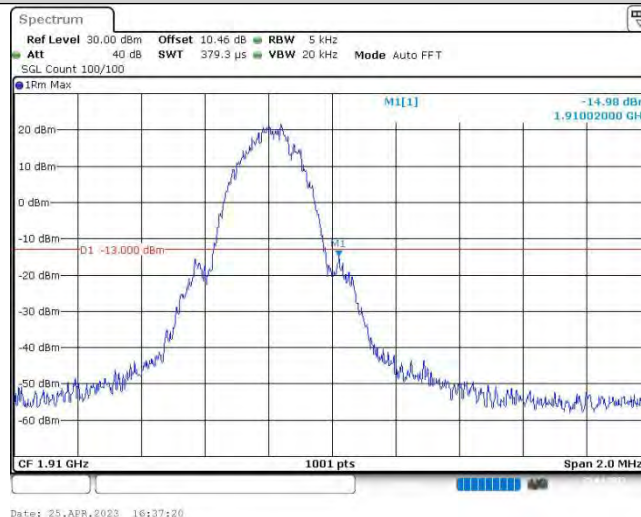
EGPRS850-128



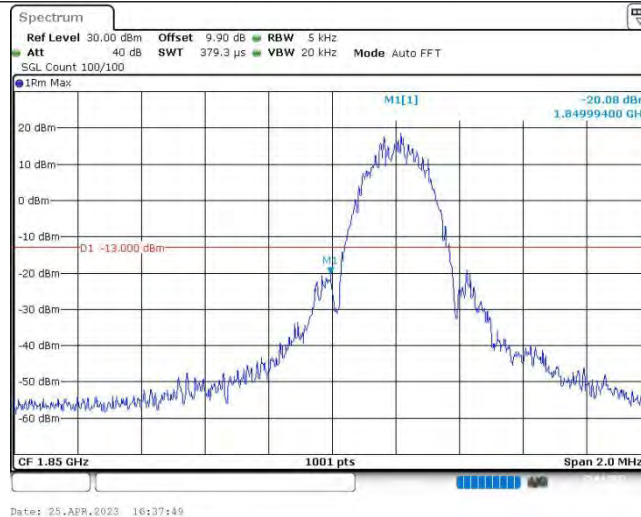
EGPRS850-251



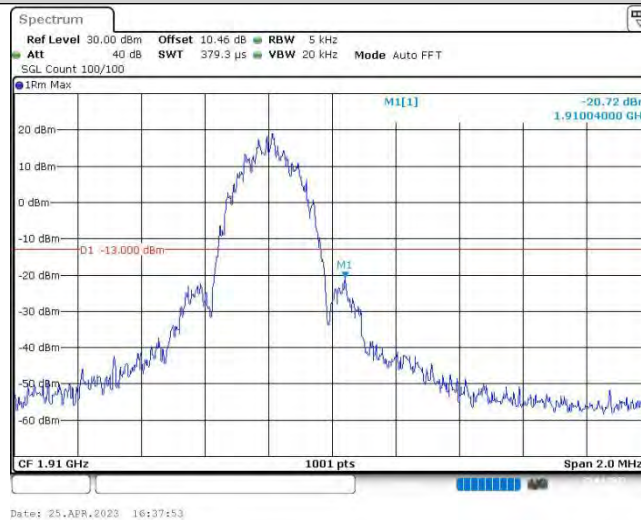
GPRS1900-512



GPRS1900-810



EGPRS1900-512



EGPRS1900-810

LTE Cat M1 Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Result(dBm)	Verdict
Band12	1.4MHz	23017	QPSK	1	0	Low	-24.14	PASS
Band12	1.4MHz	23017	QPSK	6	0	Low	-30.43	PASS
Band12	1.4MHz	23173	QPSK	1	0	High	-44.18	PASS
Band12	1.4MHz	23173	QPSK	6	0	High	-32.82	PASS
Band12	1.4MHz	23017	16QAM	1	0	Low	-26.38	PASS
Band12	1.4MHz	23017	16QAM	6	0	Low	-32.08	PASS
Band12	1.4MHz	23173	16QAM	1	0	High	-46.33	PASS
Band12	1.4MHz	23173	16QAM	6	0	High	-32.05	PASS
Band12	3MHz	23025	QPSK	1	0	Low	-32.40	PASS

Band12	3MHz	23025	QPSK	6	0	Low	-33.39	PASS
Band12	3MHz	23165	QPSK	1	0	High	-42.57	PASS
Band12	3MHz	23165	QPSK	6	0	High	-33.03	PASS
Band12	3MHz	23025	16QAM	1	0	Low	-34.10	PASS
Band12	3MHz	23025	16QAM	6	0	Low	-33.79	PASS
Band12	3MHz	23165	16QAM	1	0	High	-43.82	PASS
Band12	3MHz	23165	16QAM	6	0	High	-32.46	PASS
Band12	5MHz	23035	QPSK	1	0	Low	-29.16	PASS
Band12	5MHz	23035	QPSK	6	0	Low	-27.25	PASS
Band12	5MHz	23155	QPSK	1	0	High	-43.08	PASS
Band12	5MHz	23155	QPSK	6	0	High	-28.15	PASS
Band12	5MHz	23035	16QAM	1	0	Low	-26.02	PASS
Band12	5MHz	23035	16QAM	6	0	Low	-26.76	PASS
Band12	5MHz	23155	16QAM	1	0	High	-43.20	PASS
Band12	5MHz	23155	16QAM	6	0	High	-27.75	PASS
Band12	10MHz	23060	QPSK	1	0	Low	-35.09	PASS
Band12	10MHz	23060	QPSK	6	0	Low	-30.18	PASS
Band12	10MHz	23130	QPSK	1	0	High	-42.65	PASS
Band12	10MHz	23130	QPSK	6	0	High	-29.22	PASS
Band12	10MHz	23060	16QAM	1	0	Low	-37.09	PASS
Band12	10MHz	23060	16QAM	6	0	Low	-28.63	PASS
Band12	10MHz	23130	16QAM	1	0	High	-43.44	PASS
Band12	10MHz	23130	16QAM	6	0	High	-28.92	PASS
Band13	5MHz	23205	QPSK	1	0	Low	-28.44	PASS
Band13	5MHz	23205	QPSK	6	0	Low	-30.93	PASS
Band13	5MHz	23255	QPSK	1	0	High	-42.06	PASS
Band13	5MHz	23255	QPSK	6	0	High	-28.47	PASS
Band13	5MHz	23205	16QAM	1	0	Low	-28.18	PASS
Band13	5MHz	23205	16QAM	6	0	Low	-31.98	PASS
Band13	5MHz	23255	16QAM	1	0	High	-43.73	PASS
Band13	5MHz	23255	16QAM	6	0	High	-29.03	PASS
Band2	1.4MHz	18607	QPSK	1	0	Low	-24.38	PASS
Band2	1.4MHz	18607	QPSK	6	0	Low	-33.31	PASS
Band2	1.4MHz	19193	QPSK	1	0	High	-39.65	PASS
Band2	1.4MHz	19193	QPSK	6	0	High	-31.93	PASS
Band2	1.4MHz	18607	16QAM	1	0	Low	-26.23	PASS
Band2	1.4MHz	18607	16QAM	6	0	Low	-33.94	PASS

Band2	1.4MHz	19193	16QAM	1	0	High	-41.75	PASS
Band2	1.4MHz	19193	16QAM	6	0	High	-33.08	PASS
Band2	3MHz	18615	QPSK	1	0	Low	-31.65	PASS
Band2	3MHz	18615	QPSK	6	0	Low	-37.19	PASS
Band2	3MHz	19185	QPSK	1	0	High	-39.24	PASS
Band2	3MHz	19185	QPSK	6	0	High	-35.06	PASS
Band2	3MHz	18615	16QAM	1	0	Low	-33.54	PASS
Band2	3MHz	18615	16QAM	6	0	Low	-37.53	PASS
Band2	3MHz	19185	16QAM	1	0	High	-40.64	PASS
Band2	3MHz	19185	16QAM	6	0	High	-34.76	PASS
Band2	5MHz	18625	QPSK	1	0	Low	-27.39	PASS
Band2	5MHz	18625	QPSK	6	0	Low	-28.17	PASS
Band2	5MHz	19175	QPSK	1	0	High	-40.11	PASS
Band2	5MHz	19175	QPSK	6	0	High	-28.55	PASS
Band2	5MHz	18625	16QAM	1	0	Low	-25.22	PASS
Band2	5MHz	18625	16QAM	6	0	Low	-29.97	PASS
Band2	5MHz	19175	16QAM	1	0	High	-41.22	PASS
Band2	5MHz	19175	16QAM	6	0	High	-29.06	PASS
Band2	10MHz	18650	QPSK	1	0	Low	-36.23	PASS
Band2	10MHz	18650	QPSK	6	0	Low	-30.55	PASS
Band2	10MHz	19150	QPSK	1	0	High	-37.63	PASS
Band2	10MHz	19150	QPSK	6	0	High	-28.58	PASS
Band2	10MHz	18650	16QAM	1	0	Low	-37.24	PASS
Band2	10MHz	18650	16QAM	6	0	Low	-30.14	PASS
Band2	10MHz	19150	16QAM	1	0	High	-37.85	PASS
Band2	10MHz	19150	16QAM	6	0	High	-28.35	PASS
Band2	15MHz	18675	QPSK	1	0	Low	-36.87	PASS
Band2	15MHz	18675	QPSK	6	0	Low	-26.01	PASS
Band2	15MHz	19125	QPSK	1	0	High	-37.53	PASS
Band2	15MHz	19125	QPSK	6	0	High	-25.55	PASS
Band2	15MHz	18675	16QAM	1	0	Low	-37.89	PASS
Band2	15MHz	18675	16QAM	6	0	Low	-26.27	PASS
Band2	15MHz	19125	16QAM	1	0	High	-38.47	PASS
Band2	15MHz	19125	16QAM	6	0	High	-25.57	PASS
Band2	20MHz	18700	QPSK	1	0	Low	-35.94	PASS
Band2	20MHz	18700	QPSK	6	0	Low	-30.06	PASS
Band2	20MHz	19100	QPSK	1	0	High	-39.21	PASS

Band2	20MHz	19100	QPSK	6	0	High	-35.43	PASS
Band2	20MHz	18700	16QAM	1	0	Low	-37.79	PASS
Band2	20MHz	18700	16QAM	6	0	Low	-36.01	PASS
Band2	20MHz	19100	16QAM	1	0	High	-39.84	PASS
Band2	20MHz	19100	16QAM	6	0	High	-34.93	PASS
Band25	1.4MHz	26047	QPSK	1	0	Low	-23.99	PASS
Band25	1.4MHz	26047	QPSK	6	0	Low	-33.86	PASS
Band25	1.4MHz	26683	QPSK	1	0	High	-41.16	PASS
Band25	1.4MHz	26683	QPSK	6	0	High	-32.28	PASS
Band25	1.4MHz	26047	16QAM	1	0	Low	-26.02	PASS
Band25	1.4MHz	26047	16QAM	6	0	Low	-33.73	PASS
Band25	1.4MHz	26683	16QAM	1	0	High	-41.58	PASS
Band25	1.4MHz	26683	16QAM	6	0	High	-31.95	PASS
Band25	3MHz	26055	QPSK	1	0	Low	-31.70	PASS
Band25	3MHz	26055	QPSK	6	0	Low	-37.23	PASS
Band25	3MHz	26675	QPSK	1	0	High	-40.15	PASS
Band25	3MHz	26675	QPSK	6	0	High	-34.35	PASS
Band25	3MHz	26055	16QAM	1	0	Low	-35.39	PASS
Band25	3MHz	26055	16QAM	6	0	Low	-38.06	PASS
Band25	3MHz	26675	16QAM	1	0	High	-38.90	PASS
Band25	3MHz	26675	16QAM	6	0	High	-34.71	PASS
Band25	5MHz	26065	QPSK	1	0	Low	-26.96	PASS
Band25	5MHz	26065	QPSK	6	0	Low	-30.07	PASS
Band25	5MHz	26665	QPSK	1	0	High	-39.67	PASS
Band25	5MHz	26665	QPSK	6	0	High	-27.74	PASS
Band25	5MHz	26065	16QAM	1	0	Low	-26.18	PASS
Band25	5MHz	26065	16QAM	6	0	Low	-28.39	PASS
Band25	5MHz	26665	16QAM	1	0	High	-41.04	PASS
Band25	5MHz	26665	16QAM	6	0	High	-26.73	PASS
Band25	10MHz	26090	QPSK	1	0	Low	-36.96	PASS
Band25	10MHz	26090	QPSK	6	0	Low	-30.44	PASS
Band25	10MHz	26640	QPSK	1	0	High	-36.93	PASS
Band25	10MHz	26640	QPSK	6	0	High	-28.54	PASS
Band25	10MHz	26090	16QAM	1	0	Low	-37.10	PASS
Band25	10MHz	26090	16QAM	6	0	Low	-30.56	PASS
Band25	10MHz	26640	16QAM	1	0	High	-39.62	PASS
Band25	10MHz	26640	16QAM	6	0	High	-27.46	PASS

Band25	15MHz	26115	QPSK	1	0	Low	-36.00	PASS
Band25	15MHz	26115	QPSK	6	0	Low	-25.68	PASS
Band25	15MHz	26615	QPSK	1	0	High	-36.74	PASS
Band25	15MHz	26615	QPSK	6	0	High	-25.59	PASS
Band25	15MHz	26115	16QAM	1	0	Low	-37.41	PASS
Band25	15MHz	26115	16QAM	6	0	Low	-25.20	PASS
Band25	15MHz	26615	16QAM	1	0	High	-39.21	PASS
Band25	15MHz	26615	16QAM	6	0	High	-25.30	PASS
Band25	20MHz	26140	QPSK	1	0	Low	-32.75	PASS
Band25	20MHz	26140	QPSK	6	0	Low	-31.10	PASS
Band25	20MHz	26140	16QAM	1	0	Low	-34.94	PASS
Band25	20MHz	26140	16QAM	6	0	Low	-30.68	PASS
Band26	1.4MHz	26697	QPSK	1	0	Low	-25.35,-30.83	PASS
Band26	1.4MHz	26697	QPSK	6	0	Low	-34.07,-39.51	PASS
Band26	1.4MHz	26740	QPSK	1	0	Low	-33.19,-38.36	PASS
Band26	1.4MHz	26740	QPSK	6	0	Low	-41.45,-45.41	PASS
Band26	1.4MHz	26783	QPSK	1	0	High	-45.81,-45.04	PASS
Band26	1.4MHz	26783	QPSK	6	0	High	-33.47,-36.57	PASS
Band26	1.4MHz	26797	QPSK	1	0	Low	-24.74	PASS
Band26	1.4MHz	26797	QPSK	6	0	Low	-34.02	PASS
Band26	1.4MHz	27033	QPSK	1	0	High	-52.12	PASS
Band26	1.4MHz	27033	QPSK	6	0	High	-38.86	PASS
Band26	1.4MHz	26697	16QAM	1	0	Low	-27.27,-31.84	PASS
Band26	1.4MHz	26697	16QAM	6	0	Low	-33.82,-40.66	PASS
Band26	1.4MHz	26740	16QAM	1	0	Low	-36.16,-39.10	PASS
Band26	1.4MHz	26740	16QAM	6	0	Low	-41.19,-46.43	PASS
Band26	1.4MHz	26783	16QAM	1	0	High	-46.20,-44.23	PASS
Band26	1.4MHz	26783	16QAM	6	0	High	-34.15,-34.58	PASS
Band26	1.4MHz	26797	16QAM	1	0	Low	-27.04	PASS
Band26	1.4MHz	26797	16QAM	6	0	Low	-34.65	PASS
Band26	1.4MHz	27033	16QAM	1	0	High	-53.24	PASS
Band26	1.4MHz	27033	16QAM	6	0	High	-40.89	PASS
Band26	3MHz	26705	QPSK	1	0	Low	-34.12,-34.00	PASS
Band26	3MHz	26705	QPSK	6	0	Low	-41.01,-41.01	PASS
Band26	3MHz	26740	QPSK	1	0	Low	-52.40,-43.16	PASS
Band26	3MHz	26740	QPSK	6	0	Low	-47.56,-47.54	PASS
Band26	3MHz	26775	QPSK	1	0	High	-43.47,-43.28	PASS

Band26	3MHz	26775	QPSK	6	0	High	-35.55,-36.05	PASS
Band26	3MHz	26805	QPSK	1	0	Low	-34.04	PASS
Band26	3MHz	26805	QPSK	6	0	Low	-41.18	PASS
Band26	3MHz	27025	QPSK	1	0	High	-41.71	PASS
Band26	3MHz	27025	QPSK	6	0	High	-34.33	PASS
Band26	3MHz	26705	16QAM	1	0	Low	-37.22,-35.55	PASS
Band26	3MHz	26705	16QAM	6	0	Low	-40.95,-41.09	PASS
Band26	3MHz	26740	16QAM	1	0	Low	-45.14,-43.71	PASS
Band26	3MHz	26740	16QAM	6	0	Low	-42.74,-41.41	PASS
Band26	3MHz	26775	16QAM	1	0	High	-45.82,-43.24	PASS
Band26	3MHz	26775	16QAM	6	0	High	-35.60,-35.77	PASS
Band26	3MHz	26805	16QAM	1	0	Low	-37.46	PASS
Band26	3MHz	26805	16QAM	6	0	Low	-40.86	PASS
Band26	3MHz	27025	16QAM	1	0	High	-42.85	PASS
Band26	3MHz	27025	16QAM	6	0	High	-34.65	PASS
Band26	5MHz	26715	QPSK	1	0	Low	-28.42,-31.91	PASS
Band26	5MHz	26715	QPSK	6	0	Low	-31.72,-32.01	PASS
Band26	5MHz	26740	QPSK	1	0	Low	-36.81,-38.71	PASS
Band26	5MHz	26740	QPSK	6	0	Low	-38.71,-39.58	PASS
Band26	5MHz	26785	QPSK	1	0	High	-49.24,-49.12	PASS
Band26	5MHz	26785	QPSK	6	0	High	-49.27,-49.05	PASS
Band26	5MHz	26815	QPSK	1	0	Low	-28.35	PASS
Band26	5MHz	26815	QPSK	6	0	Low	-30.86	PASS
Band26	5MHz	27015	QPSK	1	0	High	-42.98	PASS
Band26	5MHz	27015	QPSK	6	0	High	-28.43	PASS
Band26	5MHz	26715	16QAM	1	0	Low	-27.73,-31.63	PASS
Band26	5MHz	26715	16QAM	6	0	Low	-31.04,-33.10	PASS
Band26	5MHz	26740	16QAM	1	0	Low	-36.49,-38.08	PASS
Band26	5MHz	26740	16QAM	6	0	Low	-36.90,-38.08	PASS
Band26	5MHz	26785	16QAM	1	0	High	-49.41,-49.17	PASS
Band26	5MHz	26785	16QAM	6	0	High	-49.03,-48.92	PASS
Band26	5MHz	26815	16QAM	1	0	Low	-26.95	PASS
Band26	5MHz	26815	16QAM	6	0	Low	-31.60	PASS
Band26	5MHz	27015	16QAM	1	0	High	-43.02	PASS
Band26	5MHz	27015	16QAM	6	0	High	-26.97	PASS
Band26	10MHz	26740	QPSK	1	0	Low	-43.41,-41.60	PASS
Band26	10MHz	26740	QPSK	6	0	Low	-39.99,-40.04	PASS

Band26	10MHz	26840	QPSK	1	0	Low	-35.31	PASS
Band26	10MHz	26840	QPSK	6	0	Low	-34.12	PASS
Band26	10MHz	26990	QPSK	1	0	High	-41.28	PASS
Band26	10MHz	26990	QPSK	6	0	High	-29.40	PASS
Band26	10MHz	26740	16QAM	1	0	Low	-42.91,-42.19	PASS
Band26	10MHz	26740	16QAM	6	0	Low	-40.73,-40.14	PASS
Band26	10MHz	26840	16QAM	1	0	Low	-37.38	PASS
Band26	10MHz	26840	16QAM	6	0	Low	-34.16	PASS
Band26	10MHz	26990	16QAM	1	0	High	-40.65	PASS
Band26	10MHz	26990	16QAM	6	0	High	-30.16	PASS
Band26	15MHz	26965	QPSK	1	0	High	-39.26	PASS
Band26	15MHz	26965	QPSK	6	0	High	-26.86	PASS
Band26	15MHz	26965	16QAM	1	0	High	-41.37	PASS
Band26	15MHz	26965	16QAM	6	0	High	-27.62	PASS
Band4	1.4MHz	19957	QPSK	1	0	Low	-23.67	PASS
Band4	1.4MHz	19957	QPSK	6	0	Low	-33.45	PASS
Band4	1.4MHz	20393	QPSK	1	0	High	-38.59	PASS
Band4	1.4MHz	20393	QPSK	6	0	High	-33.28	PASS
Band4	1.4MHz	19957	16QAM	1	0	Low	-26.15	PASS
Band4	1.4MHz	19957	16QAM	6	0	Low	-32.73	PASS
Band4	1.4MHz	20393	16QAM	1	0	High	-40.03	PASS
Band4	1.4MHz	20393	16QAM	6	0	High	-31.36	PASS
Band4	3MHz	19965	QPSK	1	0	Low	-31.90	PASS
Band4	3MHz	19965	QPSK	6	0	Low	-39.15	PASS
Band4	3MHz	20385	QPSK	1	0	High	-40.00	PASS
Band4	3MHz	20385	QPSK	6	0	High	-35.53	PASS
Band4	3MHz	19965	16QAM	1	0	Low	-33.43	PASS
Band4	3MHz	19965	16QAM	6	0	Low	-39.70	PASS
Band4	3MHz	20385	16QAM	1	0	High	-39.71	PASS
Band4	3MHz	20385	16QAM	6	0	High	-34.90	PASS
Band4	5MHz	19975	QPSK	1	0	Low	-26.40	PASS
Band4	5MHz	19975	QPSK	6	0	Low	-28.52	PASS
Band4	5MHz	20375	QPSK	1	0	High	-36.12	PASS
Band4	5MHz	20375	QPSK	6	0	High	-27.01	PASS
Band4	5MHz	19975	16QAM	1	0	Low	-25.89	PASS
Band4	5MHz	19975	16QAM	6	0	Low	-28.36	PASS
Band4	5MHz	20375	16QAM	1	0	High	-41.26	PASS

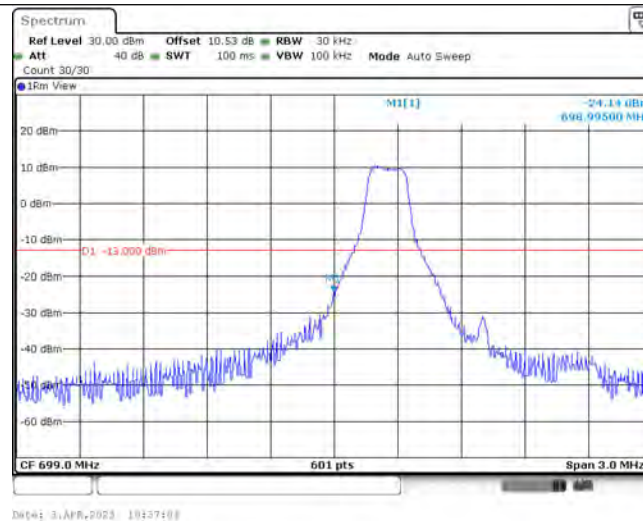
Band4	5MHz	20375	16QAM	6	0	High	-28.86	PASS
Band4	10MHz	20000	QPSK	1	0	Low	-36.08	PASS
Band4	10MHz	20000	QPSK	6	0	Low	-30.80	PASS
Band4	10MHz	20350	QPSK	1	0	High	-37.47	PASS
Band4	10MHz	20350	QPSK	6	0	High	-29.69	PASS
Band4	10MHz	20000	16QAM	1	0	Low	-36.20	PASS
Band4	10MHz	20000	16QAM	6	0	Low	-29.86	PASS
Band4	10MHz	20350	16QAM	1	0	High	-39.17	PASS
Band4	10MHz	20350	16QAM	6	0	High	-29.15	PASS
Band4	15MHz	20025	QPSK	1	0	Low	-35.92	PASS
Band4	15MHz	20025	QPSK	6	0	Low	-25.89	PASS
Band4	15MHz	20325	QPSK	1	0	High	-37.80	PASS
Band4	15MHz	20325	QPSK	6	0	High	-26.89	PASS
Band4	15MHz	20025	16QAM	1	0	Low	-37.67	PASS
Band4	15MHz	20025	16QAM	6	0	Low	-25.69	PASS
Band4	15MHz	20325	16QAM	1	0	High	-38.22	PASS
Band4	15MHz	20325	16QAM	6	0	High	-25.74	PASS
Band4	20MHz	20050	QPSK	1	0	Low	-33.58	PASS
Band4	20MHz	20050	QPSK	6	0	Low	-31.12	PASS
Band4	20MHz	20300	QPSK	1	0	High	-40.41	PASS
Band4	20MHz	20300	QPSK	6	0	High	-37.13	PASS
Band4	20MHz	20050	16QAM	1	0	Low	-36.71	PASS
Band4	20MHz	20050	16QAM	6	0	Low	-31.31	PASS
Band4	20MHz	20300	16QAM	1	0	High	-39.92	PASS
Band4	20MHz	20300	16QAM	6	0	High	-36.72	PASS
Band5	1.4MHz	20407	QPSK	1	0	Low	-26.57	PASS
Band5	1.4MHz	20407	QPSK	6	0	Low	-35.10	PASS
Band5	1.4MHz	20643	QPSK	1	0	High	-53.11	PASS
Band5	1.4MHz	20643	QPSK	6	0	High	-41.80	PASS
Band5	1.4MHz	20407	16QAM	1	0	Low	-27.59	PASS
Band5	1.4MHz	20407	16QAM	6	0	Low	-35.56	PASS
Band5	1.4MHz	20643	16QAM	1	0	High	-53.11	PASS
Band5	1.4MHz	20643	16QAM	6	0	High	-41.04	PASS
Band5	3MHz	20415	QPSK	1	0	Low	-33.54	PASS
Band5	3MHz	20415	QPSK	6	0	Low	-42.01	PASS
Band5	3MHz	20635	QPSK	1	0	High	-41.54	PASS
Band5	3MHz	20635	QPSK	6	0	High	-35.30	PASS

Band5	3MHz	20415	16QAM	1	0	Low	-35.79	PASS
Band5	3MHz	20415	16QAM	6	0	Low	-41.96	PASS
Band5	3MHz	20635	16QAM	1	0	High	-43.11	PASS
Band5	3MHz	20635	16QAM	6	0	High	-34.86	PASS
Band5	5MHz	20425	QPSK	1	0	Low	-30.55	PASS
Band5	5MHz	20425	QPSK	6	0	Low	-31.85	PASS
Band5	5MHz	20625	QPSK	1	0	High	-42.08	PASS
Band5	5MHz	20625	QPSK	6	0	High	-29.38	PASS
Band5	5MHz	20425	16QAM	1	0	Low	-28.41	PASS
Band5	5MHz	20425	16QAM	6	0	Low	-33.16	PASS
Band5	5MHz	20625	16QAM	1	0	High	-43.15	PASS
Band5	5MHz	20625	16QAM	6	0	High	-28.59	PASS
Band5	10MHz	20450	QPSK	1	0	Low	-35.95	PASS
Band5	10MHz	20450	QPSK	6	0	Low	-34.81	PASS
Band5	10MHz	20600	QPSK	1	0	High	-41.31	PASS
Band5	10MHz	20600	QPSK	6	0	High	-32.29	PASS
Band5	10MHz	20450	16QAM	1	0	Low	-36.68	PASS
Band5	10MHz	20450	16QAM	6	0	Low	-35.71	PASS
Band5	10MHz	20600	16QAM	1	0	High	-42.40	PASS
Band5	10MHz	20600	16QAM	6	0	High	-32.15	PASS
Band66	1.4MHz	131979	QPSK	1	0	Low	-23.64	PASS
Band66	1.4MHz	131979	QPSK	6	0	Low	-32.99	PASS
Band66	1.4MHz	132665	QPSK	1	0	High	-41.30	PASS
Band66	1.4MHz	132665	QPSK	6	0	High	-31.95	PASS
Band66	1.4MHz	131979	16QAM	1	0	Low	-27.45	PASS
Band66	1.4MHz	131979	16QAM	6	0	Low	-34.16	PASS
Band66	1.4MHz	132665	16QAM	1	0	High	-42.06	PASS
Band66	1.4MHz	132665	16QAM	6	0	High	-32.25	PASS
Band66	3MHz	131987	QPSK	1	0	Low	-31.47	PASS
Band66	3MHz	131987	QPSK	6	0	Low	-39.16	PASS
Band66	3MHz	132657	QPSK	1	0	High	-39.42	PASS
Band66	3MHz	132657	QPSK	6	0	High	-33.66	PASS
Band66	3MHz	131987	16QAM	1	0	Low	-34.03	PASS
Band66	3MHz	131987	16QAM	6	0	Low	-38.92	PASS
Band66	3MHz	132657	16QAM	1	0	High	-40.11	PASS
Band66	3MHz	132657	16QAM	6	0	High	-33.73	PASS
Band66	5MHz	131997	QPSK	1	0	Low	-26.10	PASS

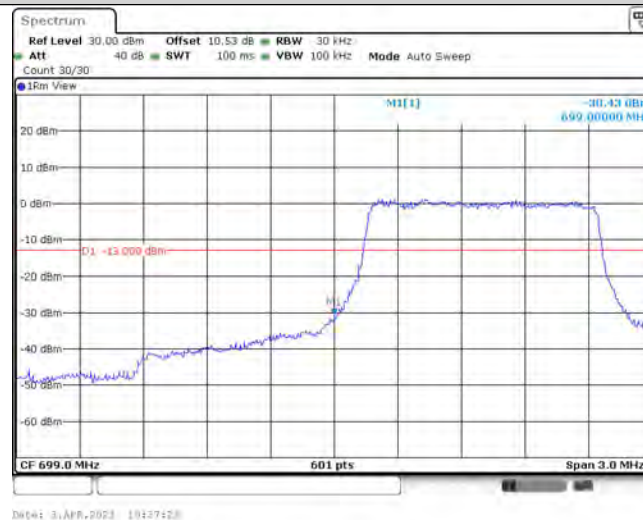
Band66	5MHz	131997	QPSK	6	0	Low	-27.75	PASS
Band66	5MHz	132647	QPSK	1	0	High	-37.59	PASS
Band66	5MHz	132647	QPSK	6	0	High	-27.75	PASS
Band66	5MHz	131997	16QAM	1	0	Low	-26.08	PASS
Band66	5MHz	131997	16QAM	6	0	Low	-27.53	PASS
Band66	5MHz	132647	16QAM	1	0	High	-39.96	PASS
Band66	5MHz	132647	16QAM	6	0	High	-26.72	PASS
Band66	10MHz	132022	QPSK	1	0	Low	-34.33	PASS
Band66	10MHz	132022	QPSK	6	0	Low	-30.31	PASS
Band66	10MHz	132622	QPSK	1	0	High	-36.34	PASS
Band66	10MHz	132622	QPSK	6	0	High	-28.47	PASS
Band66	10MHz	132022	16QAM	1	0	Low	-37.78	PASS
Band66	10MHz	132022	16QAM	6	0	Low	-29.96	PASS
Band66	10MHz	132622	16QAM	1	0	High	-36.27	PASS
Band66	10MHz	132622	16QAM	6	0	High	-28.03	PASS
Band66	15MHz	132047	QPSK	1	0	Low	-35.61	PASS
Band66	15MHz	132047	QPSK	6	0	Low	-25.65	PASS
Band66	15MHz	132597	QPSK	1	0	High	-36.39	PASS
Band66	15MHz	132597	QPSK	6	0	High	-25.27	PASS
Band66	15MHz	132047	16QAM	1	0	Low	-37.56	PASS
Band66	15MHz	132047	16QAM	6	0	Low	-25.32	PASS
Band66	15MHz	132597	16QAM	1	0	High	-40.10	PASS
Band66	15MHz	132597	16QAM	6	0	High	-25.23	PASS
Band66	20MHz	132072	QPSK	1	0	Low	-35.54	PASS
Band66	20MHz	132072	QPSK	6	0	Low	-29.30	PASS
Band66	20MHz	132572	QPSK	1	0	High	-36.76	PASS
Band66	20MHz	132572	QPSK	6	0	High	-29.98	PASS
Band66	20MHz	132072	16QAM	1	0	Low	-36.58	PASS
Band66	20MHz	132072	16QAM	6	0	Low	-30.23	PASS
Band66	20MHz	132572	16QAM	1	0	High	-38.88	PASS
Band66	20MHz	132572	16QAM	6	0	High	-29.38	PASS
Band85	5MHz	134027	QPSK	1	0	Low	-27.11	PASS
Band85	5MHz	134027	QPSK	6	0	Low	-28.70	PASS
Band85	5MHz	134157	QPSK	1	0	High	-43.46	PASS
Band85	5MHz	134157	QPSK	6	0	High	-26.80	PASS
Band85	5MHz	134027	16QAM	1	0	Low	-28.53	PASS
Band85	5MHz	134027	16QAM	6	0	Low	-28.48	PASS

Band85	5MHz	134157	16QAM	1	0	High	-43.98	PASS
Band85	5MHz	134157	16QAM	6	0	High	-27.81	PASS
Band85	10MHz	134052	QPSK	1	0	Low	-35.66	PASS
Band85	10MHz	134052	QPSK	6	0	Low	-30.55	PASS
Band85	10MHz	134132	QPSK	1	0	High	-41.26	PASS
Band85	10MHz	134132	QPSK	6	0	High	-28.93	PASS
Band85	10MHz	134052	16QAM	1	0	Low	-35.07	PASS
Band85	10MHz	134052	16QAM	6	0	Low	-29.51	PASS
Band85	10MHz	134132	16QAM	1	0	High	-43.15	PASS
Band85	10MHz	134132	16QAM	6	0	High	-28.35	PASS

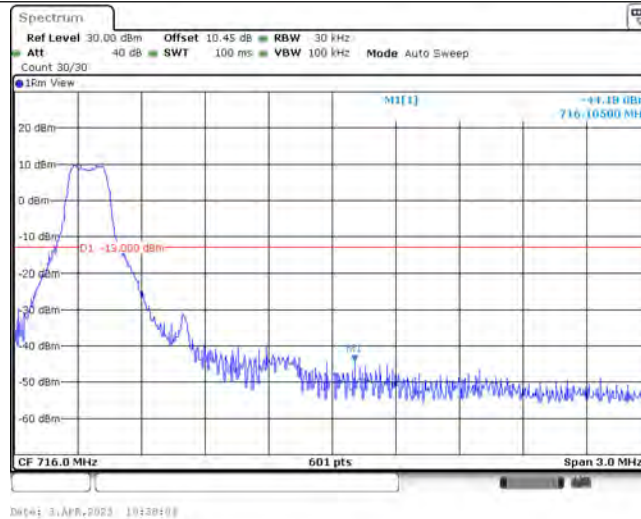
LTE Cat M1 Test Graphs



Band12-1.4MHz-QPSK-23017-1-0-Low--24.14-PASS



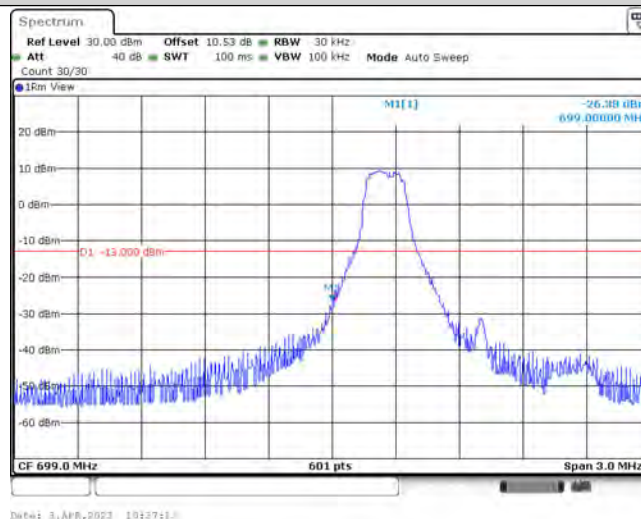
Band12-1.4MHz-QPSK-23017-6-0-Low--30.43-PASS



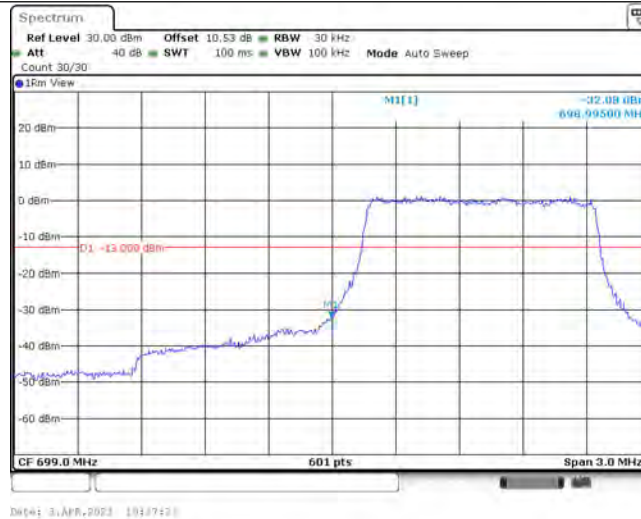
Band12-1.4MHz-QPSK-23173-1-0-High--44.18-PASS



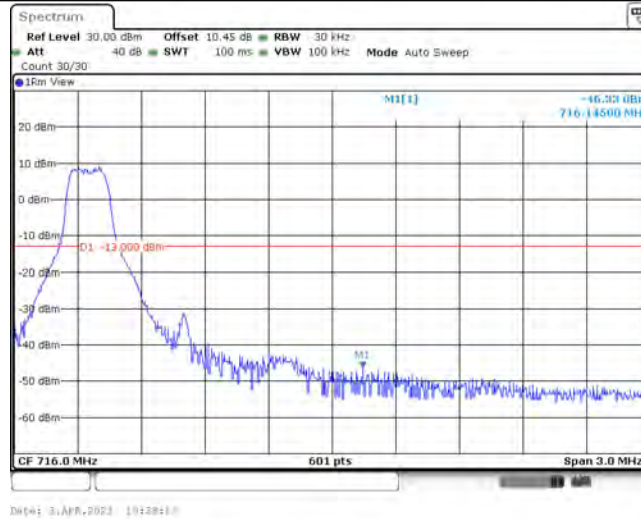
Band12-1.4MHz-QPSK-23173-6-0-High--32.82-PASS



Band12-1.4MHz-16QAM-23017-1-0-Low--26.38-PASS



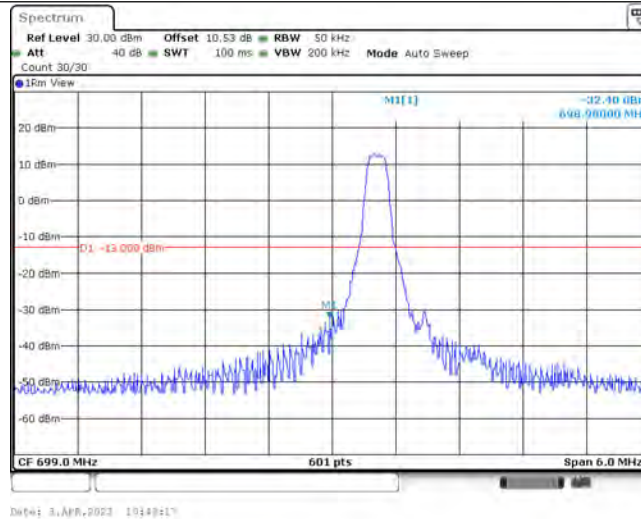
Band12.14MHz-16QAM-23017-6-0-Low--32.08-PASS



Band12.14MHz-16QAM-23173-1-0-High--46.33-PASS



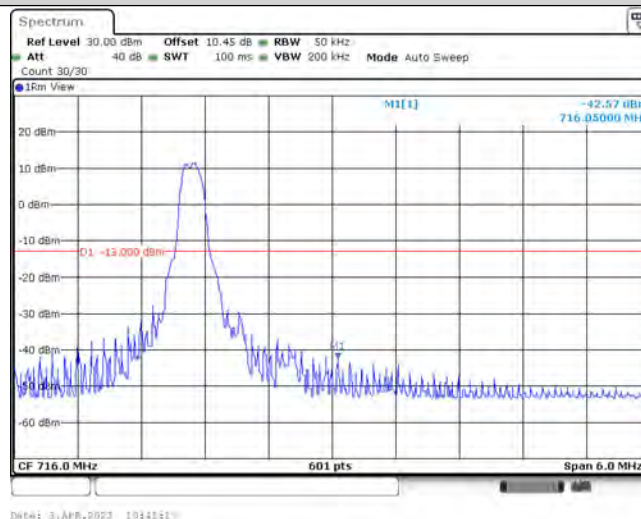
Band12.14MHz-16QAM-23173-6-0-High--32.05-PASS



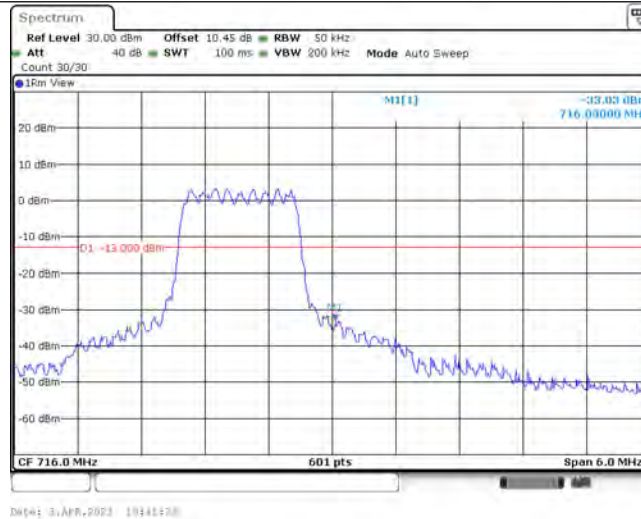
Band12-3MHz-QPSK-23025-1-0-Low--32.40-PASS



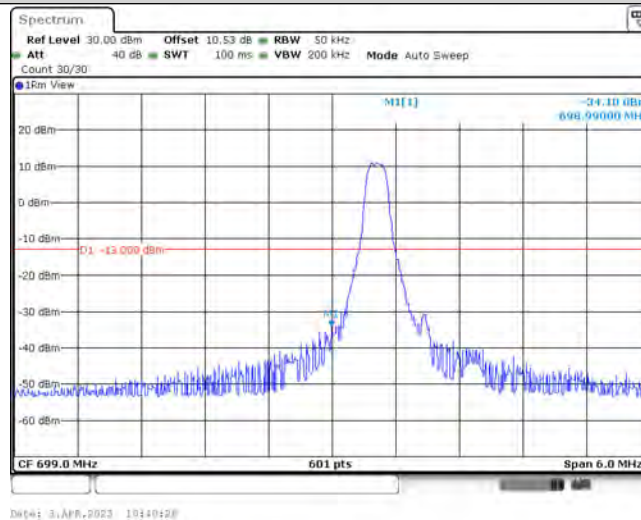
Band12-3MHz-QPSK-23025-6-0-Low--33.39-PASS



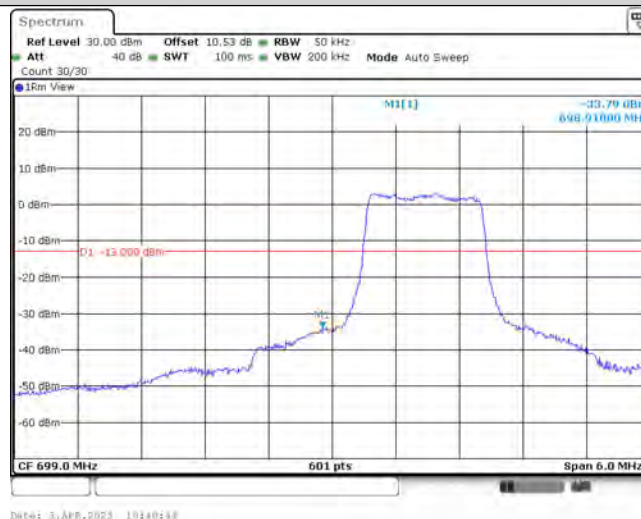
Band12-3MHz-QPSK-23165-1-0-High--42.57-PASS



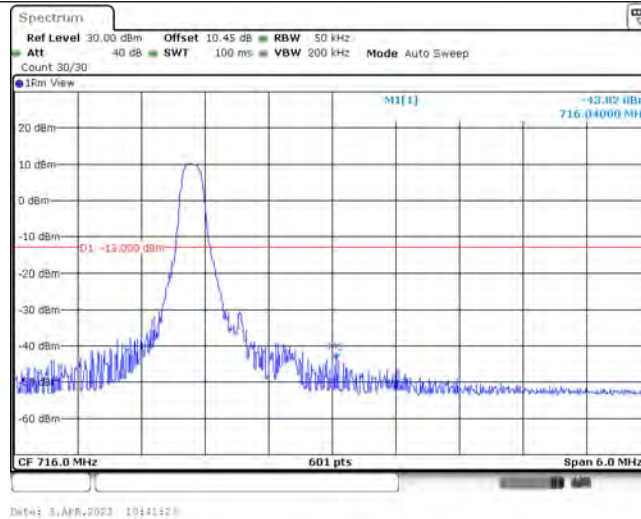
Band12-3MHz-QPSK-23165-6-0-High--33.03-PASS



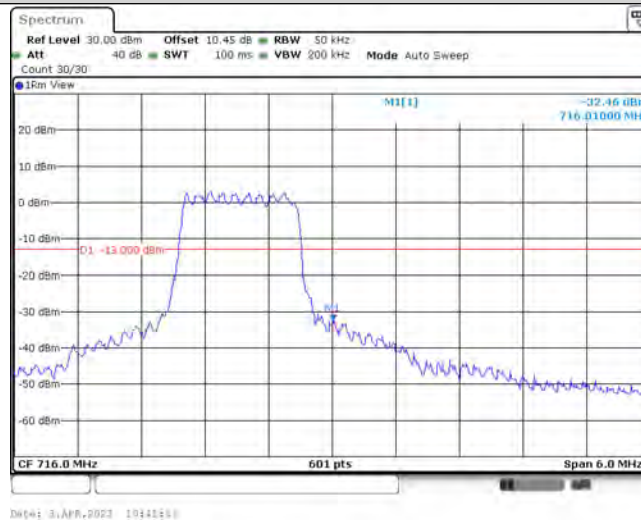
Band12-3MHz-16QAM-23025-1-0-Low--34.10-PASS



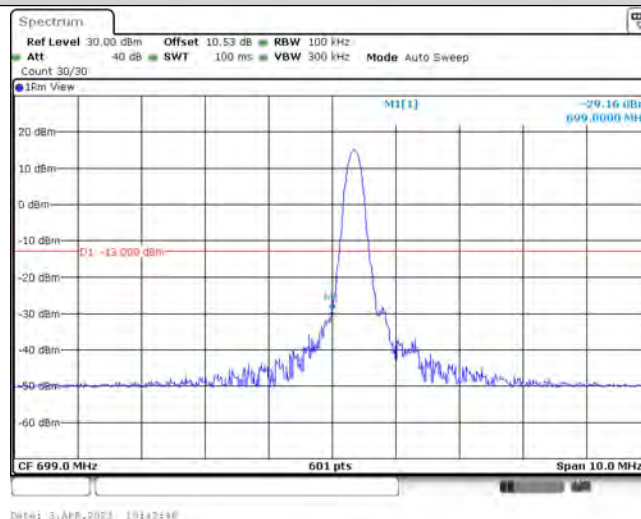
Band12-3MHz-16QAM-23025-6-0-Low--33.79-PASS



Band12-3MHz-16QAM-23165-1-0-High--43.82-PASS



Band12-3MHz-16QAM-23165-6-0-High--32.46-PASS



Band12-5MHz-QPSK-23035-1-0-Low--29.16-PASS