

Test report

467684-1R2TRFWL

Date of issue: August 24, 2022

Applicant:

Fujitsu Network Communications, Inc.

Product:

Gen2 Tri Band RU for North America

Model:

G2_N71N29N26-RU

Model variant:

None

Specifications:

- ◆ **FCC 47 CFR Part 27**
Miscellaneous Wireless Communications Services
- ◆ **FCC 47 CFR Part 90**
Private Land Mobile Radio Services

Lab and test locations

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Tested by	Lan Sayasane, EMC Test Engineer
Reviewed by	James Cunningham, EMC/MIL/WL Supervisor
Review date	August 24, 2022
Reviewer signature	

Limits of responsibility

Note that the results contained in this report relate only to the items tested and were obtained in the period between the date of initial receipt of samples and the date of issue of the report.

This test report has been completed in accordance with the requirements of ISO/IEC 17025. All results contain in this report are within Nemko USA's ISO/IEC 17025 accreditation.

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Section 1. Report summary

1.1 Applicant and manufacturer

Company name	Fujitsu Networks Communications, Inc.
Address	2801 Telecom Parkway
City	Richardson
Province/State	TX
Postal/Zip code	75082
Country	United States of America

1.2 Test specifications

FCC 47 CFR Part 27	Miscellaneous Wireless Communications Services
FCC 47 CFR Part 95	Private Land Mobile Radio Services

1.3 Statement of compliance

In the configuration tested, the EUT was found compliant.

Testing was performed against all relevant requirements of the test standard. Results obtained indicate that the product under test complies in full with the requirements tested. The test results relate only to the items tested.

See "Summary of test results" for full details.

1.4 Exclusions

None

1.5 Test report revision history

Revision #	Details of changes made to test report
467684-1TRFWL	Original report issued
467684-1R1TRFWL	Updated following TCB comments
467684-1R2TRFWL	Additional updates from TCB comments

Section 2. Summary of test results

2.1 FCC Part 27 test results

Part	Test description	Verdict
§2.1033(c)(4)	Modulation type	Pass
§2.1049(h)	99% Occupied bandwidth	Pass
§27.50(h)(j)	Frequency ranges	Pass
§27.50(c)(3)(ii)	Output power at RF antenna connector	Pass
§27.50(d)(5)	Peak to average power ratio	Pass
§27.53(h)(1)	Conducted spurious emissions	Pass
§27.53(h)(1)	Radiated spurious emissions	Pass
§27.53(h)(3)	26 dB Occupied bandwidth	Pass
§27.54	Frequency stability	Pass

Note: None.

2.2 FCC Part 90 test results

Part	Test description	Verdict
§2.1033(c)(4)	Modulation type	Pass
§90.209	99% Occupied bandwidth	Pass
§90.205 / §90.635	Output power at RF antenna connector	Pass
§90.205 / §90.635	Peak to average power ratio	Pass
§90.210 / §90.691	Conducted spurious emissions	Pass
§90.210 / §90.691	Radiated spurious emissions	Pass
§90.209	26 dB Occupied bandwidth	Pass
§90.213	Frequency stability	Pass

Note: None.

Section 3. Equipment under test (EUT) details

3.1 Sample information

Receipt date	July 15, 2022
Nemko sample ID number	NEx: 467684

3.2 EUT information

Product name	Gen2 Tri Band RU for North America
Model	G2_N71N29N26-RU
Part Number	TA08029-B214/01
Serial number	10003

3.3 Technical information

Frequency band	Band n26: 862 – 869 MHz Band n29: 717 – 728 MHz Band n71: 617 – 652 MHz
RF power Max (W), Conducted	Band n26: 38.70 dBm / 7.41 Watts or 44.72 dBm / 29.65 Watts (Total power across all ports) Band n29: 42.87 dBm / 19.39 Watts or 48.89 dBm / 77.45 Watts (Total power across all ports) Band n71: 44.51 dBm / 28.25 Watts or 50.53 dBm / 112.98 Watts (Total power across all ports)
Supported bandwidths	5 MHz (5G NR, Band n66), 0.2 MHz (NB-IoT, Band n66) 5, 10 MHz (5G NR, Band n29) 5, 10, 15, 20 MHz (5G NR, Band n71), 0.2 MHz (NB-IoT, Band n71)
Type of modulation	Band n26: QPSK; 16QAM; 64QAM; 256QAM, 1024QAM Band n29: QPSK; 16QAM; 64QAM; 256QAM, 1024QAM Band n71: QPSK; 16QAM; 64QAM; 256QAM, 1024QAM
Power requirements	DC 48 VDC
Antenna information	The EUT is professionally installed.

3.4 Product description and theory of operation

The radio unit (RU) is one of the components to configure the 5G RAN mobile communication system. The RU has three band frequencies: band n26, n29, and band n71. Four antenna ports are shared across the frequency bands.

3.5 EUT exercise details

A laptop computer was used to send test commands to EUT to force it to transmit the appropriate signal. Unit transmit the selected signal at full power. The unit was tested using a conducted port. The antenna installation shall be done by professionals, and they are not within the scope of the tests evaluated on this document.

3.6 EUT setup diagram

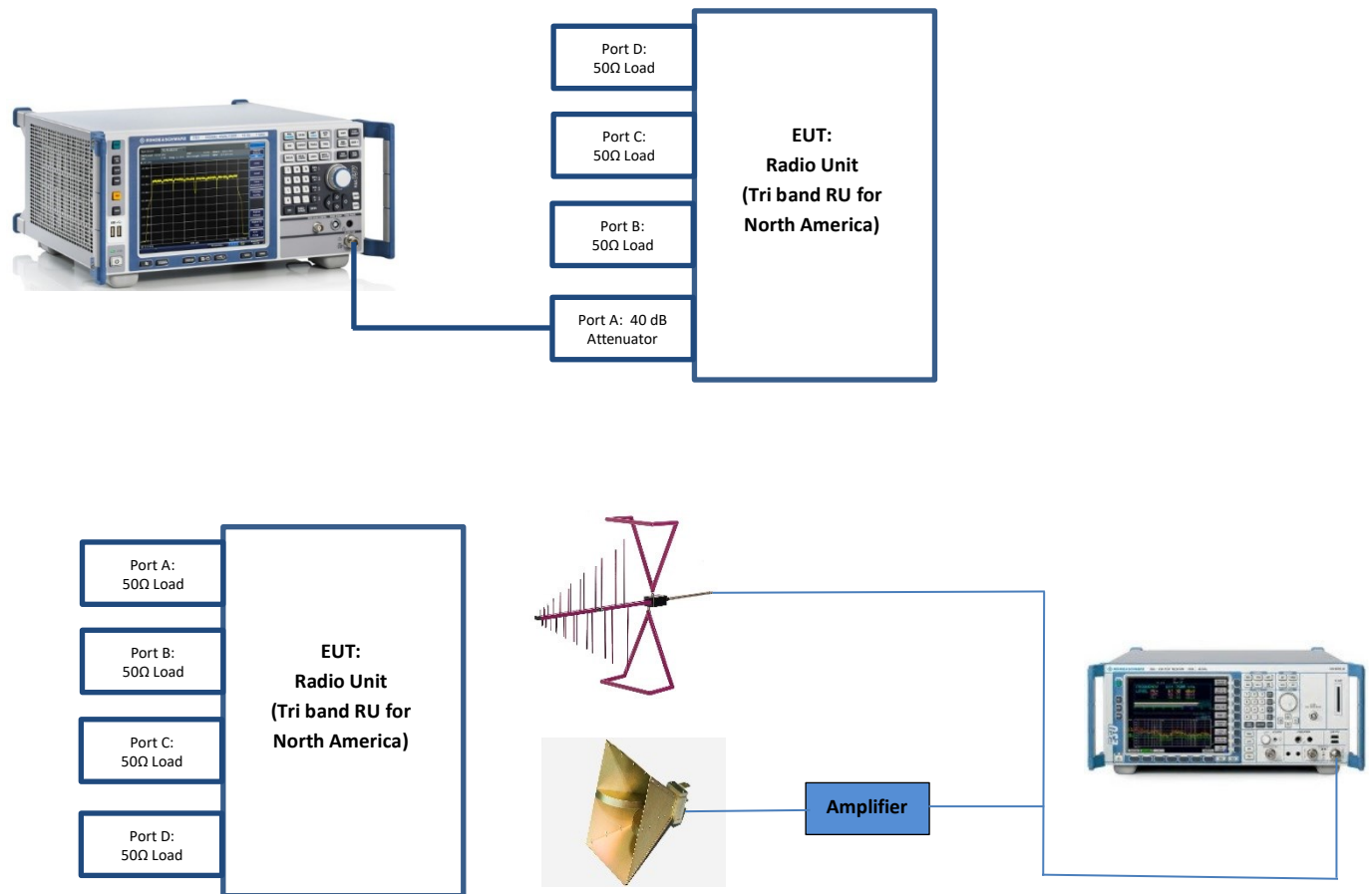


Figure 3.6-1: Setup diagram

Section 4. Engineering considerations

4.1 Modifications incorporated in the EUT

There were no modifications performed to the EUT during this assessment.

4.2 Technical judgment

None

4.3 Deviations from laboratory tests procedures

No deviations were made from laboratory procedures.

Section 5. Test conditions

5.1 Atmospheric conditions

Temperature	15–30 °C
Relative humidity	20–75 %
Air pressure	860–1060 mbar

When it is impracticable to carry out tests under these conditions, a note to this effect stating the ambient temperature and relative humidity during the tests shall be recorded and stated.

5.2 Power supply range

The normal test voltage for equipment to be connected to the mains shall be the nominal mains voltage. For the purpose of the present document, the nominal voltage shall be the declared voltage, or any of the declared voltages $\pm 5\%$, for which the equipment was designed.

Section 6. Measurement uncertainty

6.1 Uncertainty of measurement

Measurement uncertainty budgets for the tests are detailed below. Measurement uncertainty calculations assume a coverage factor of $K = 2$ with 95% certainty.

Table 6.1-1: Measurement uncertainty.

Test name	Measurement uncertainty, dB
All antenna port measurements/ including OBW	0.55
Conducted spurious emissions	1.13
Radiated spurious emissions	3.78
AC power line conducted emissions	1.38
Supply Voltages	0.05%
Time	2.09%

Section 7. Test equipment

7.1 Test equipment list

Table 7.1-1: Equipment list

Equipment	Manufacturer	Model no.	Asset no.	Cal cycle	Next cal.
EMC Test Receiver	Rohde & Schwarz	ESU 40	E1121	1 year	31-May-2023
System Controller	Sunol Sciences	SC104V	E1191	NCR	NCR
Antenna, Bilog	Schaffner-Chase	CBL 6111D	1763	2 years	01-Apr-2024
Antenna, DRG Horn	ETS-Lindgren	3117-PA	E1139	2 years	19-Apr-2023
Signal Generator	Rohde & Schwarz	SMB100A	E1128	1 year	23-Dec-2022
Signal & Spectrum Analyzer	Rohde & Schwarz	FSW43	E1302	1 year	08-Nov-2022
Band Reject Filter	Micro-Tonics	BRM50702-02	E1141	NCR	NCR
Environmental Chamber	Cincinnati Sub-Zero	ZPH-32-2-2-H/AC	S1179	1 year	18-Aug-2022
Wireless pressure, humidity, and temperature data logger	OMEGA	RF2000A	S1170	1 year	30-Sep-2022

Notes: N/A – not applicable
 NCR – no calibration required
 VOI – verify on use

Section 8. Testing data

8.1 FCC §2.1033(c)(4) Modulation type

8.1.1 Definitions and limits

(c) Applications for equipment other than that operating under parts 15, 11 and 18 of this chapter shall be accompanied by a technical report containing the following information:

(4) Type or types of emission

8.1.2 Test summary

Test date	July 12, 2022	Temperature	21 °C
Test engineer	Lan Sayasane, EMC Test Engineer	Air pressure	1005 mbar
Verdict	Pass	Relative humidity	65 %

8.1.3 Observations, settings and special notes

None

8.1.4 Test data

Band n26:

Bandwidth (MHz)	Emission type
0.2	QPSK (NB-IoT)
5	QPSK; 16QAM; 64QAM; 256QAM; 1024QAM

Band n29:

Bandwidth (MHz)	Emission type
5	QPSK; 16QAM; 64QAM; 256QAM; 1024QAM
10	QPSK; 16QAM; 64QAM; 256QAM; 1024QAM

Band n71:

Bandwidth (MHz)	Emission type
0.2	QPSK (NB-IoT)
5	QPSK; 16QAM; 64QAM; 256QAM; 1024QAM
10	QPSK; 16QAM; 64QAM; 256QAM; 1024QAM
15	QPSK; 16QAM; 64QAM; 256QAM; 1024QAM
20	QPSK; 16QAM; 64QAM; 256QAM; 1024QAM

Table 8.1-1: Types of emission

8.2 FCC §2.1049(h) / §90.209 99% Occupied Bandwidth and frequency ranges

8.2.1 Definitions and limits

§2.1049 (h) Transmitters employing digital modulation techniques—when modulated by an input signal such that its amplitude and symbol rate represent the maximum rated conditions under which the equipment will be operated. The signal shall be applied through any filter networks, pseudo-random generators or other devices required in normal service. Additionally, the occupied bandwidth shall be shown for operation with any devices used for modifying the spectrum when such devices are optional at the discretion of the use.

8.2.2 Test summary

Test date	July 12, 2022	Temperature	21 °C
Test engineer	Lan Sayasane, EMC Test Engineer	Air pressure	1005 mbar
Verdict	Pass	Relative humidity	65 %

8.2.3 Observations, settings and special notes

Selection of Port C was according to section 8.2.4 of this document.

Test method: ANSI C63.26 Section 5.4.4

Spectrum analyzer settings:

Resolution bandwidth	1% - 5% OBW
Video bandwidth	3*RBW
Frequency span	2*OBW
Detector mode	Peak
Trace mode	Max Hold

8.2.4 Test data

Band n26:

Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n26 (NB-IoT)	0.2 MHz	C	864.1	0.171

Table 8.2-1: 99% Occupied bandwidth, 256QAM Modulation, NB-IoT operating mode

Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n26 (NB-IoT)	0.2 MHz	C	868.85	0.172

Table 8.2-2: 99% Occupied bandwidth, 256QAM Modulation, NB-IoT operating mode

Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n26	5 MHz	C	866.5	4.482

Table 8.2-3: 99% Occupied bandwidth, QPSK Modulation, 5 MHz

Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n26	5 MHz	C	866.5	4.509

Table 8.2-4: 99% Occupied bandwidth, 16QAM Modulation, 5 MHz

Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n26	5 MHz	C	866.5	4.51

Table 8.2-5: 99% Occupied bandwidth, 64QAM Modulation, 5 MHz

Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n26	5 MHz	C	866.5	4.495

Table 8.2-6: 99% Occupied bandwidth, 256QAM Modulation, 5 MHz

Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n26	5 MHz	C	866.5	4.493

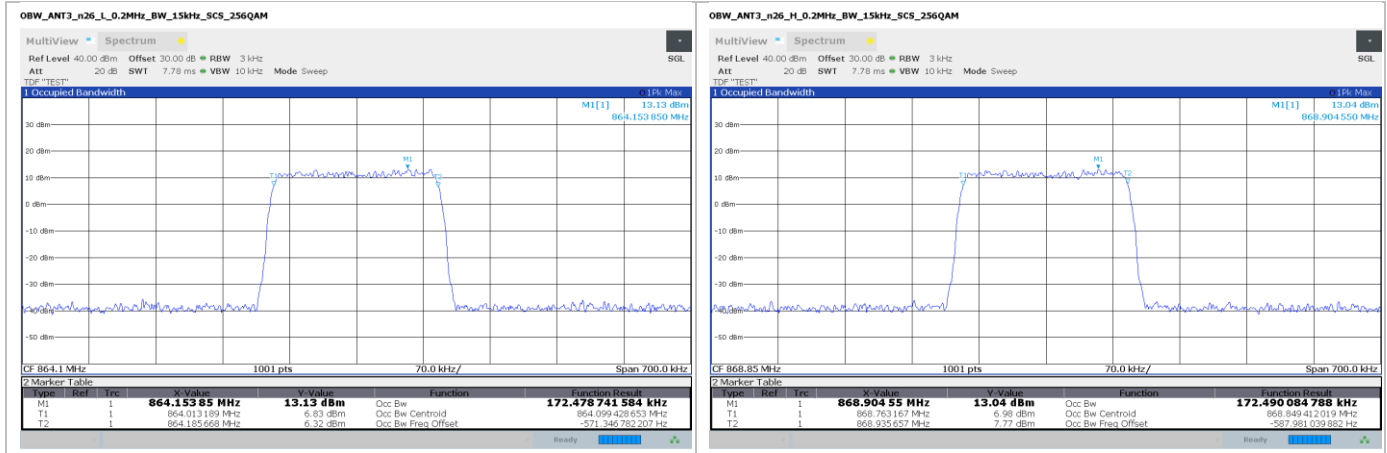
Table 8.2-7: 99% Occupied bandwidth, 1024QAM Modulation, 5 MHz

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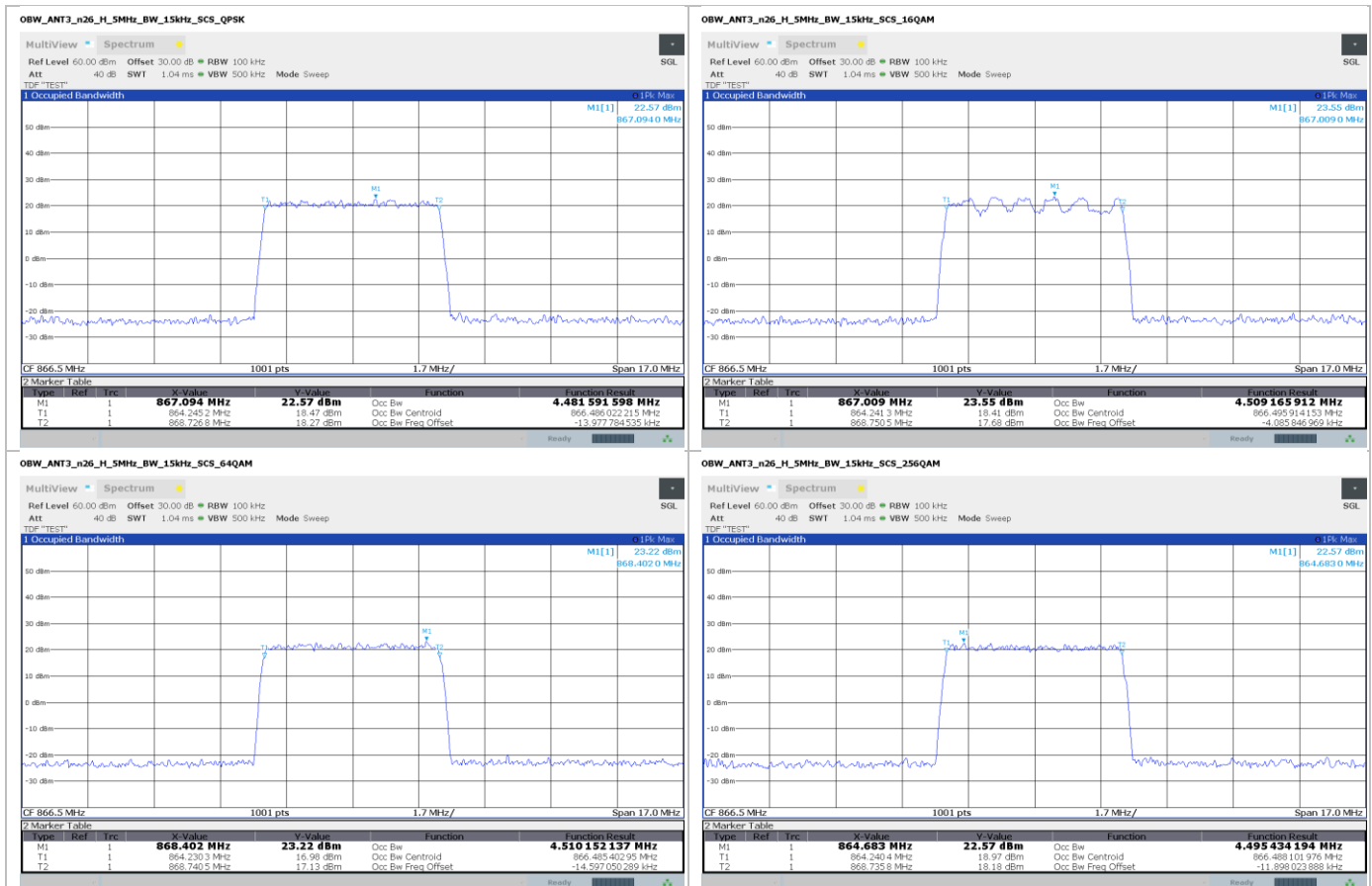
Testing data
FCC §2.1049(h) / §90.209 99% Occupied Bandwidth
FCC Part 27 / FCC Part 90

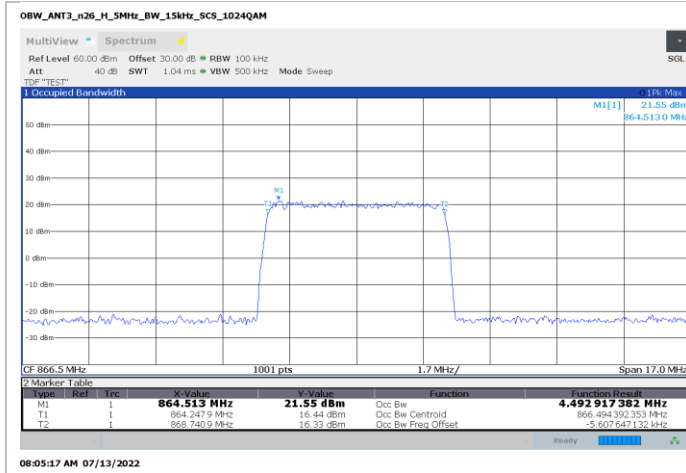


Band n26 (NB-IoT) – 0.2 MHz



Band n26 – 5 MHz





Band n29:

Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n29	5 MHz	C	720.5	4.483
n29	5 MHz	C	723	4.479
n29	5 MHz	C	725.5	4.496

Table 8.2-8: 99% Occupied bandwidth, QPSK Modulation, 5 MHz

Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n29	5 MHz	C	720.5	4.5
n29	5 MHz	C	723	4.517
n29	5 MHz	C	725.5	4.502

Table 8.2-9: 99% Occupied bandwidth, 16QAM Modulation, 5 MHz

Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n29	5 MHz	C	720.5	4.487
n29	5 MHz	C	723	4.486
n29	5 MHz	C	725.5	4.485

Table 8.2-10: 99% Occupied bandwidth, 64QAM Modulation, 5 MHz

Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n29	5 MHz	C	720.5	4.49
n29	5 MHz	C	723	4.487
n29	5 MHz	C	725.5	4.485

Table 8.2-11: 99% Occupied bandwidth, 256QAM Modulation, 5 MHz

Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n29	5 MHz	C	720.5	4.487
n29	5 MHz	C	723	4.49
n29	5 MHz	C	725.5	4.491

Table 8.2-12: 99% Occupied bandwidth, 1024QAM Modulation, 5 MHz

Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n29	10 MHz	C	723	9.298

Table 8.2-13: 99% Occupied bandwidth, QPSK Modulation, 10 MHz

Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n29	10 MHz	C	723	9.249

Table 8.2-14: 99% Occupied bandwidth, 16QAM Modulation, 10 MHz

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FCC Part 27 / FCC Part 90



Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n29	10 MHz	C	723	9.331

Table 8.2-15: 99% Occupied bandwidth, 64QAM Modulation, 10 MHz

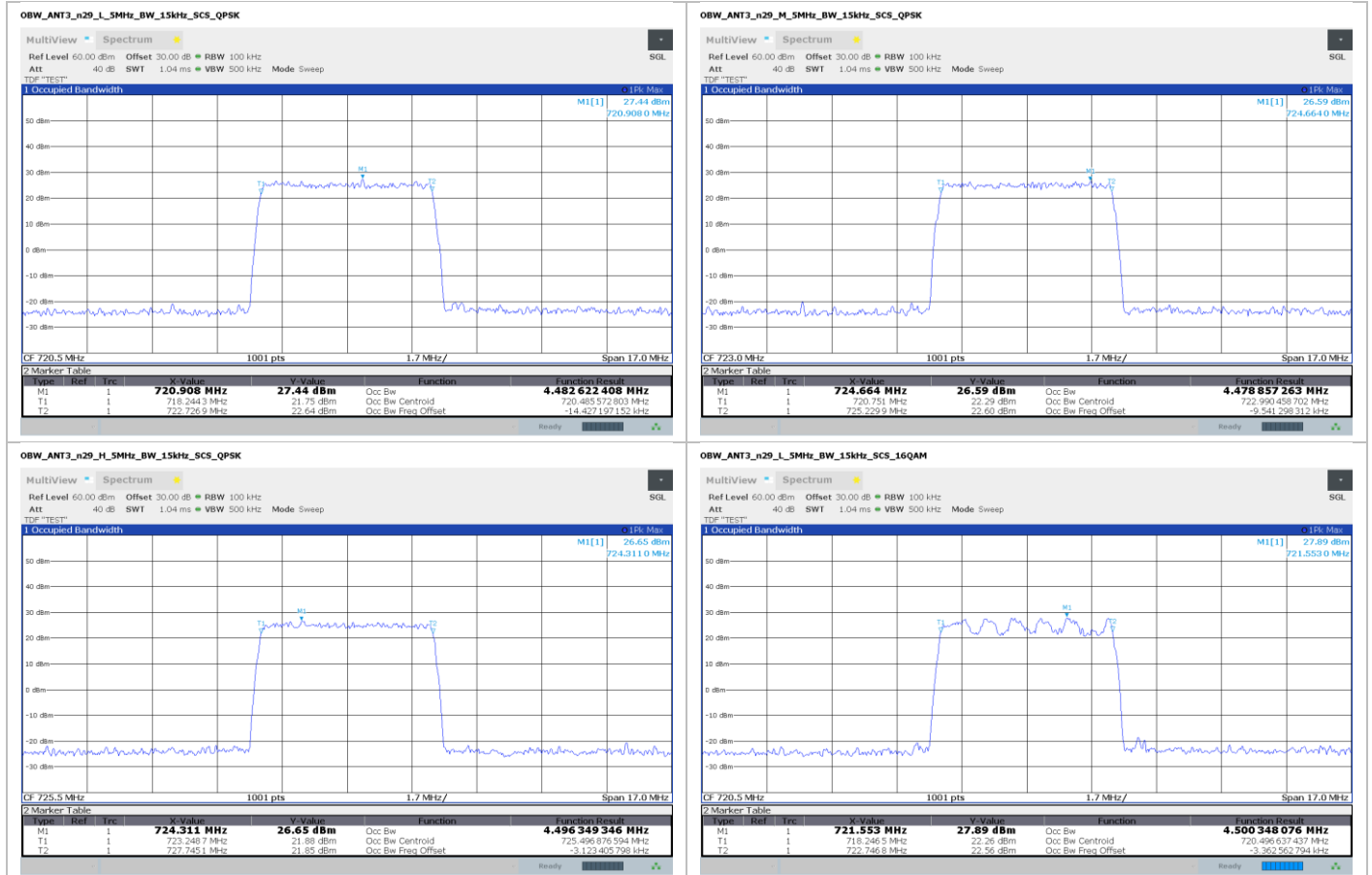
Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n29	10 MHz	C	723	9.331

Table 8.2-16: 99% Occupied bandwidth, 256QAM Modulation, 10 MHz

Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n29	10 MHz	C	723	9.302

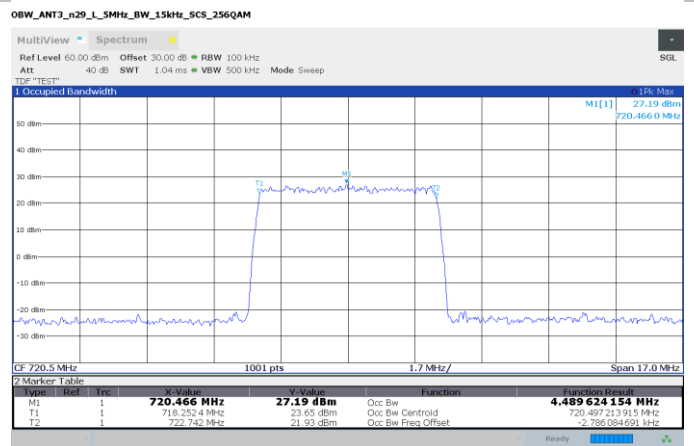
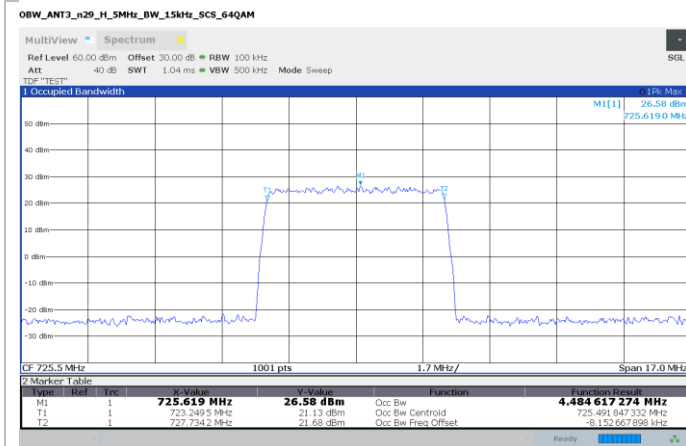
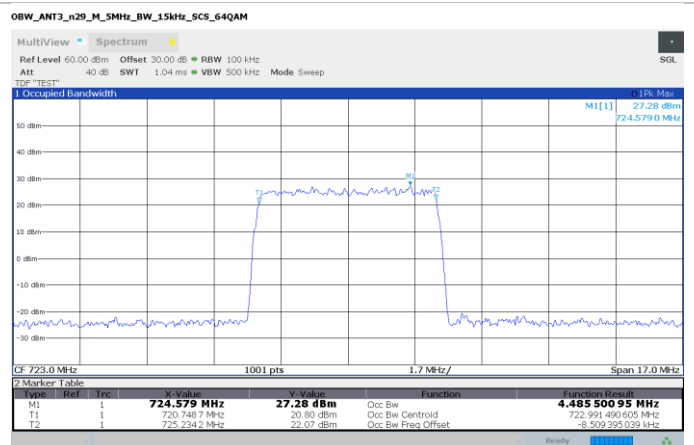
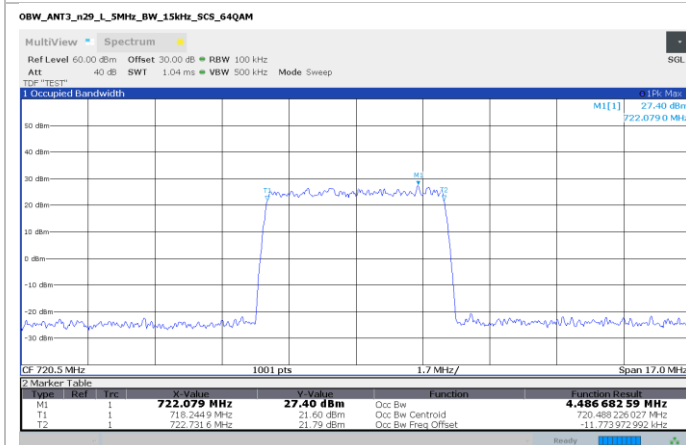
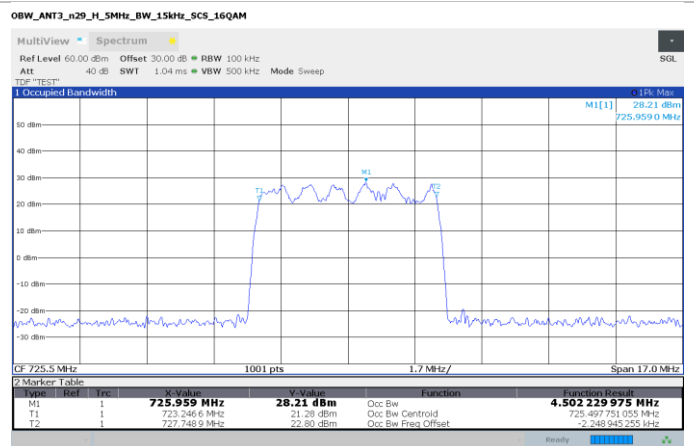
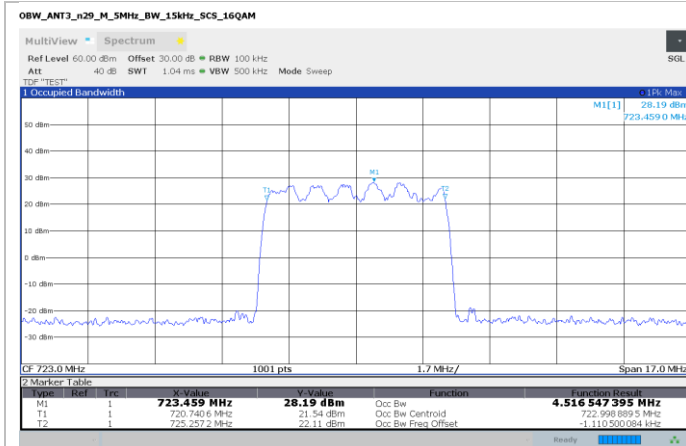
Table 8.2-17: 99% Occupied bandwidth, 1024QAM Modulation, 10 MHz

Band n29 – 5 MHz



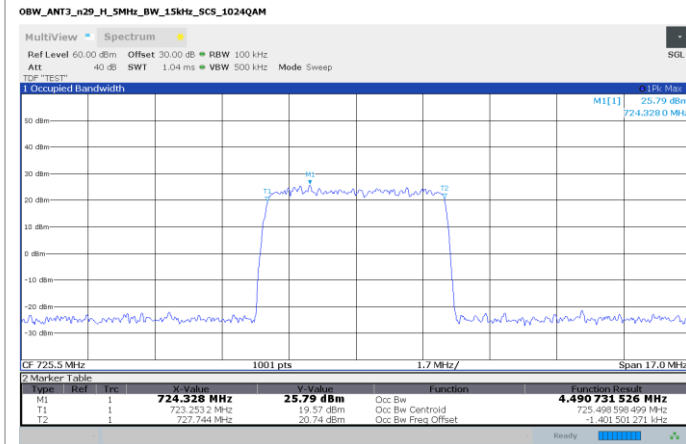
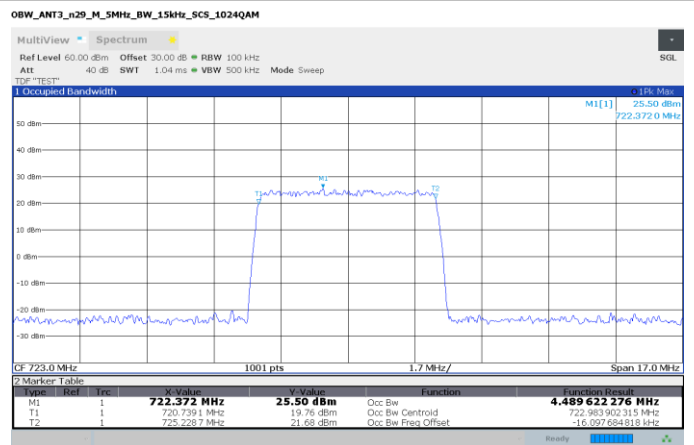
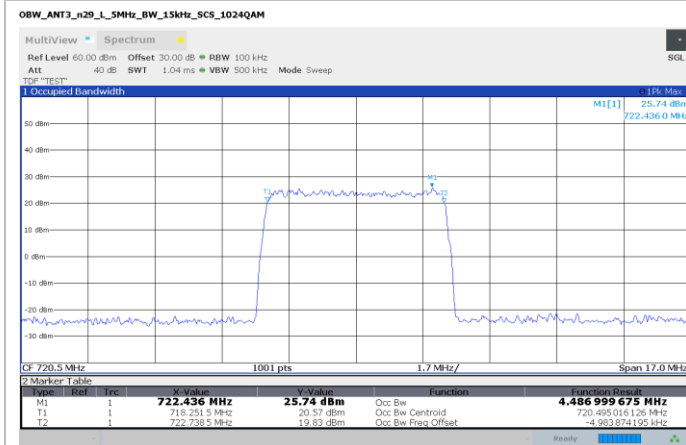
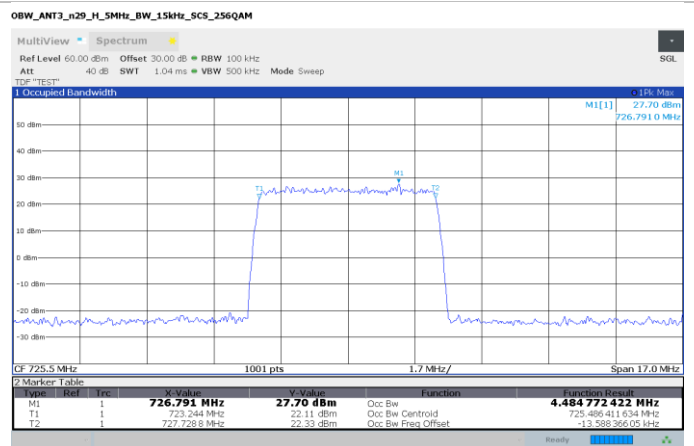
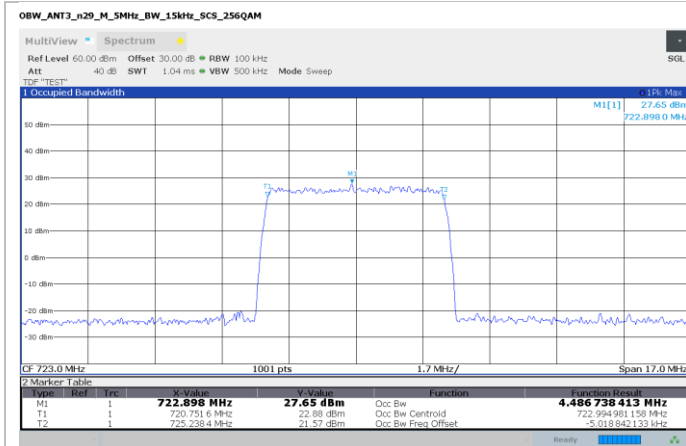
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Section 8
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Testing data
FCC §2.1049(h) / §90.209 99% Occupied Bandwidth
FCC Part 27 / FCC Part 90

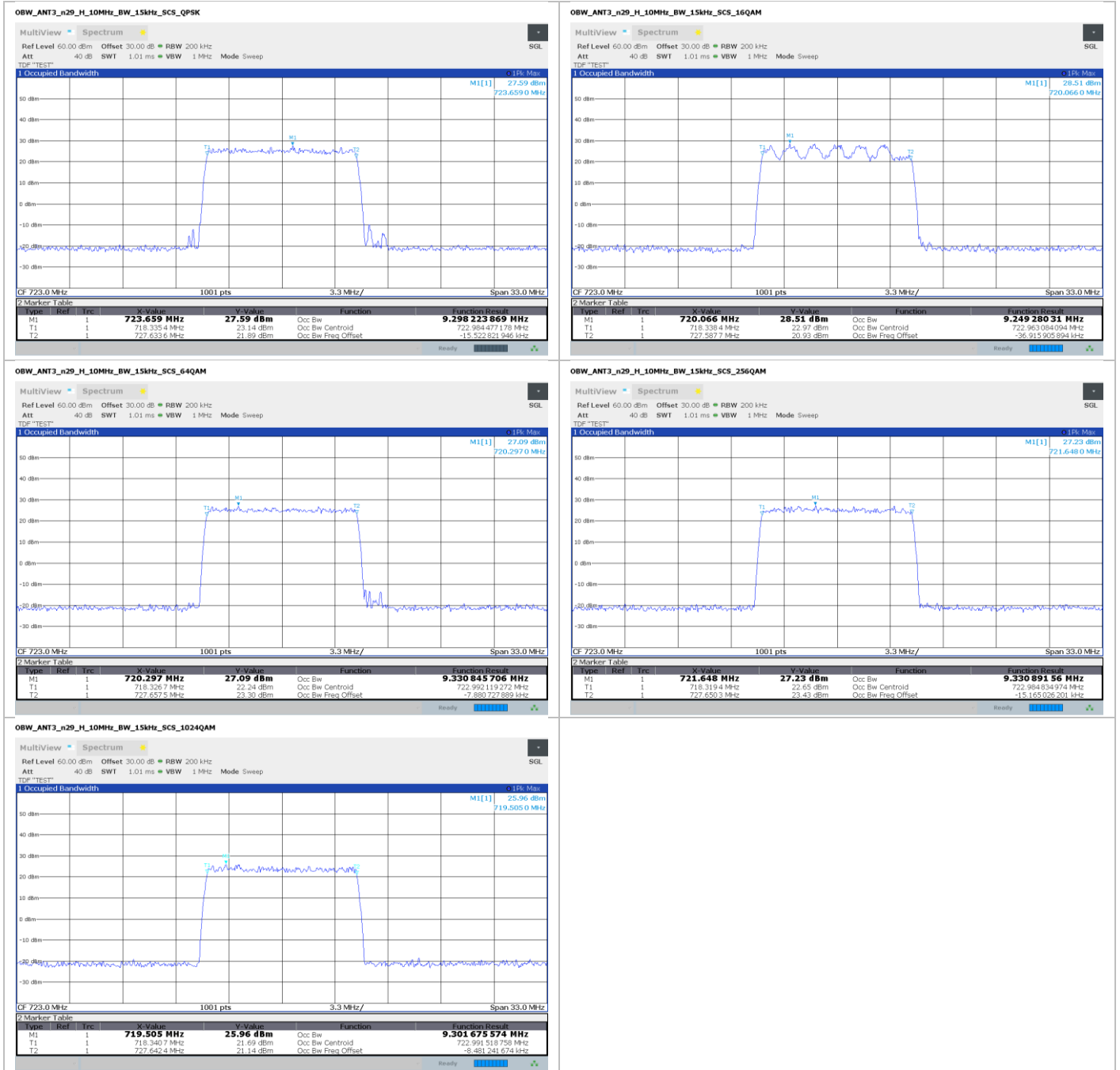


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 FCC \$2.1049(h) / \$90.209 99% Occupied Bandwidth
 FCC Part 27 / FCC Part 90



Band n29 – 10 MHz



Band n71:

Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n71 (NB-IoT)	0.2 MHz	C	617.307	0.172
n71 (NB-IoT)	0.2 MHz	C	636.4925	0.172
n71 (NB-IoT)	0.2 MHz	C	651.692	0.172

Table 8.2-18: 99% Occupied bandwidth, QPSK Modulation, NB-IoT mode

Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n71	5 MHz	C	619.5	4.491
n71	5 MHz	C	634.5	4.499
n71	5 MHz	C	649.5	4.478

Table 8.2-19: 99% Occupied bandwidth, QPSK Modulation, 5 MHz

Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n71	5 MHz	C	619.5	4.522
n71	5 MHz	C	634.5	4.499
n71	5 MHz	C	649.5	4.494

Table 8.2-20: 99% Occupied bandwidth, 16QAM Modulation, 5MHz

Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n71	5 MHz	C	619.5	4.503
n71	5 MHz	C	634.5	4.502
n71	5 MHz	C	649.5	4.519

Table 8.2-21: 99% Occupied bandwidth, 64QAM Modulation, 5 MHz

Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n71	5 MHz	C	619.5	4.499
n71	5 MHz	C	634.5	4.502
n71	5 MHz	C	649.5	4.488

Table 8.2-22: 99% Occupied bandwidth, 256QAM Modulation, 5 MHz

Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n71	5 MHz	C	619.5	4.493
n71	5 MHz	C	634.5	4.479
n71	5 MHz	C	649.5	4.492

Table 8.2-23: 99% Occupied bandwidth, 1024QAM Modulation, 5 MHz

Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n71	10 MHz	C	622	9.329
n71	10 MHz	C	634.5	9.344
n71	10 MHz	C	647	9.329

Table 8.2-24: 99% Occupied bandwidth, QPSK Modulation, 10 MHz

Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n71	10 MHz	C	622	9.281
n71	10 MHz	C	634.5	9.286
n71	10 MHz	C	647	9.251

Table 8.2-25: 99% Occupied bandwidth, 16QAM Modulation, 10 MHz

Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n71	10 MHz	C	622	9.338
n71	10 MHz	C	634.5	9.348
n71	10 MHz	C	647	9.327

Table 8.2-26: 99% Occupied bandwidth, 64QAM Modulation, 10 MHz

Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n71	10 MHz	C	622	9.355
n71	10 MHz	C	634.5	9.333
n71	10 MHz	C	647	9.345

Table 8.2-27: 99% Occupied bandwidth, 256QAM Modulation, 10 MHz

Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n71	10 MHz	C	622	9.324
n71	10 MHz	C	634.5	9.312
n71	10 MHz	C	647	9.313

Table 8.2-28: 99% Occupied bandwidth, 1024QAM Modulation, 10 MHz

Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n71	15 MHz	C	624.5	14.12
n71	15 MHz	C	634.5	14.117
n71	15 MHz	C	644.5	14.107

Table 8.2-29: 99% Occupied bandwidth, QPSK Modulation, 15 MHz

Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n71	15 MHz	C	624.5	14.188
n71	15 MHz	C	634.5	14.172
n71	15 MHz	C	644.5	14.143

Table 8.2-30: 99% Occupied bandwidth, 16QAM Modulation, 15 MHz

Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n71	15 MHz	C	624.5	14.149
n71	15 MHz	C	634.5	14.143
n71	15 MHz	C	644.5	14.105

Table 8.2-31: 99% Occupied bandwidth, 64QAM Modulation, 15 MHz

Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n71	15 MHz	C	624.5	14.11
n71	15 MHz	C	634.5	14.137
n71	15 MHz	C	644.5	14.158

Table 8.2-32: 99% Occupied bandwidth, 256QAM Modulation, 15 MHz

Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n71	15 MHz	C	624.5	14.099
n71	15 MHz	C	634.5	14.1
n71	15 MHz	C	644.5	14.095

Table 8.2-33: 99% Occupied bandwidth, 1024QAM Modulation, 15 MHz

Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n71	20 MHz	C	627	19.004
n71	20 MHz	C	634.5	18.995
n71	20 MHz	C	642	18.934

Table 8.2-34: 99% Occupied bandwidth, QPSK Modulation, 20 MHz

Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n71	20 MHz	C	627	19.015
n71	20 MHz	C	634.5	19.017
n71	20 MHz	C	642	19.001

Table 8.2-35: 99% Occupied bandwidth, 16QAM Modulation, 20 MHz

Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n71	20 MHz	C	627	18.991
n71	20 MHz	C	634.5	18.979
n71	20 MHz	C	642	18.953

Table 8.2-36: 99% Occupied bandwidth, 64QAM Modulation, 20 MHz

Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n71	20 MHz	C	627	18.975
n71	20 MHz	C	634.5	18.979
n71	20 MHz	C	642	18.971

Table 8.2-37: 99% Occupied bandwidth, 256QAM Modulation, 20 MHz

Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n71	20 MHz	C	627	18.934
n71	20 MHz	C	634.5	18.977
n71	20 MHz	C	642	18.976

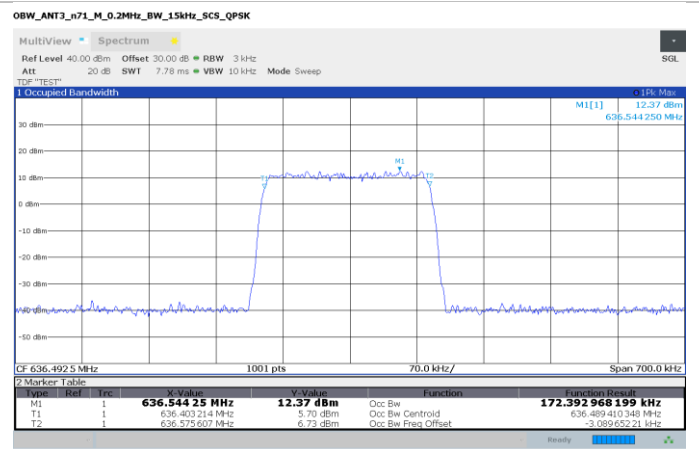
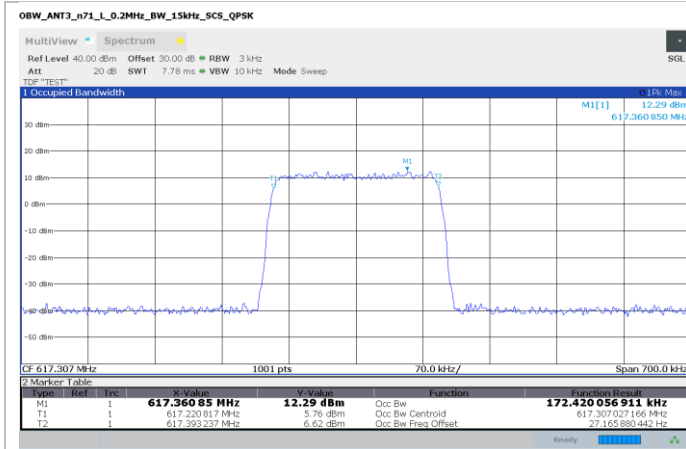
Table 8.2-38: 99% Occupied bandwidth, 1024QAM Modulation, 20 MHz

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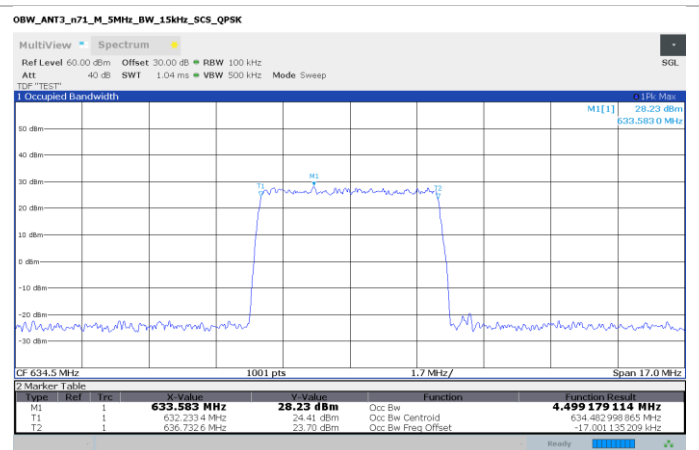
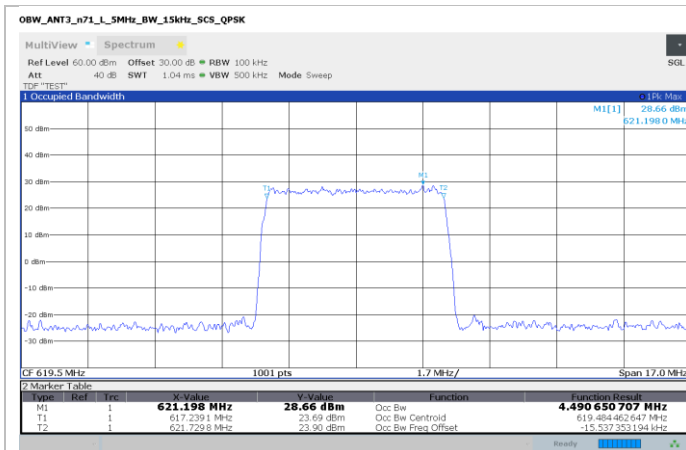
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Band n71 (NB-IoT) – 0.2 MHz

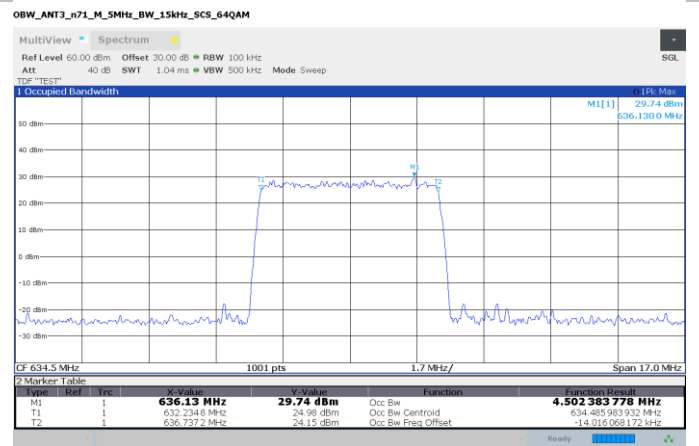
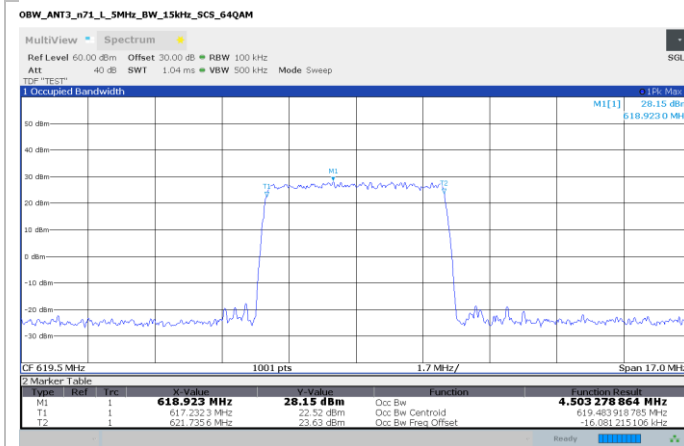
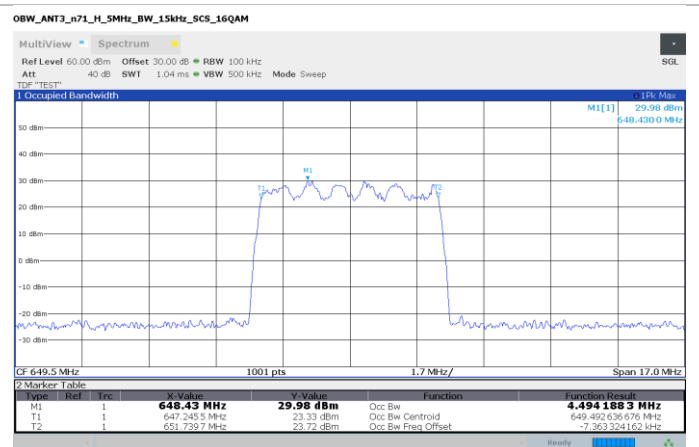
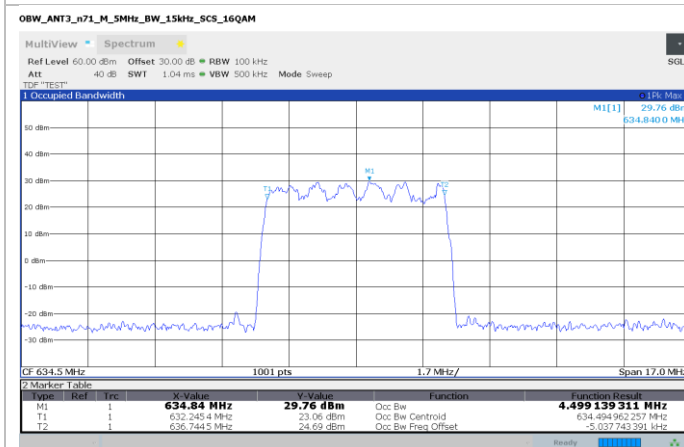
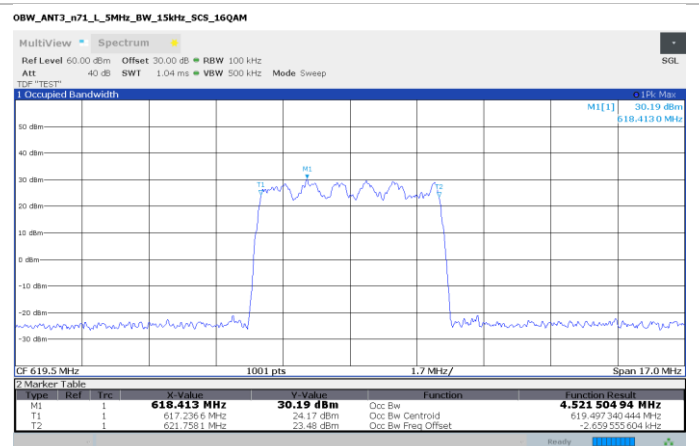
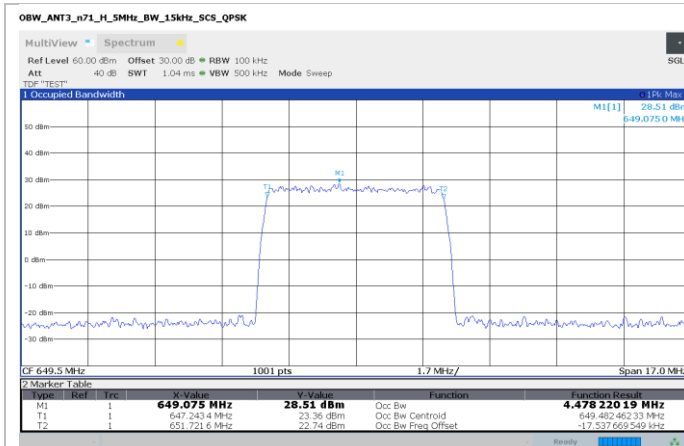


Band n71 – 5 MHz



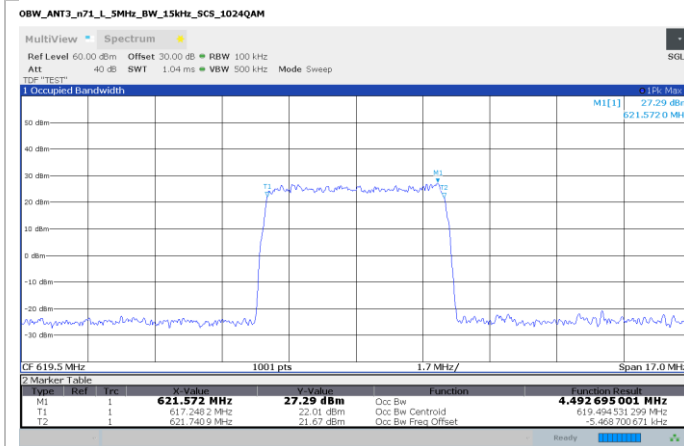
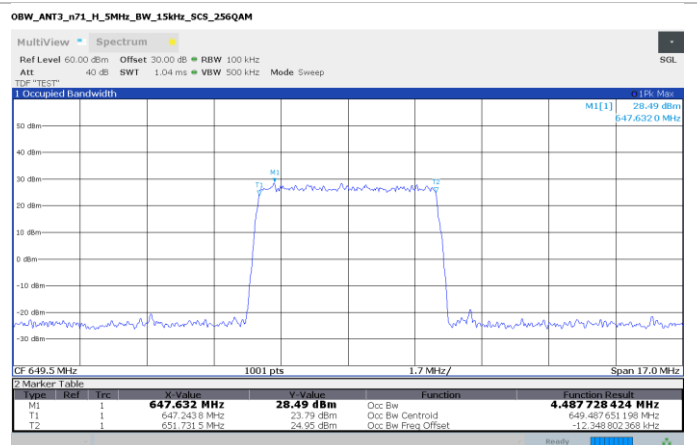
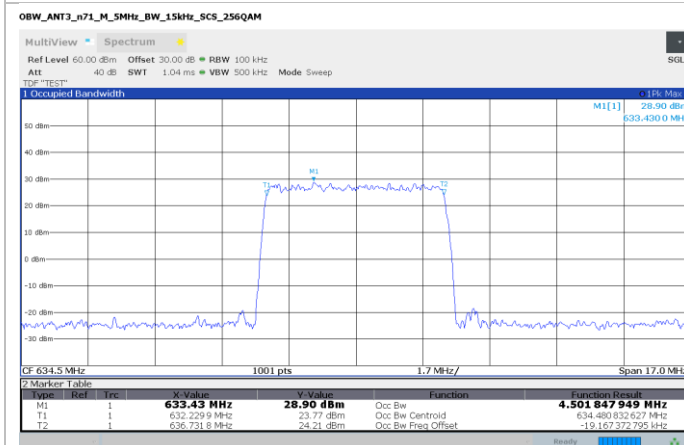
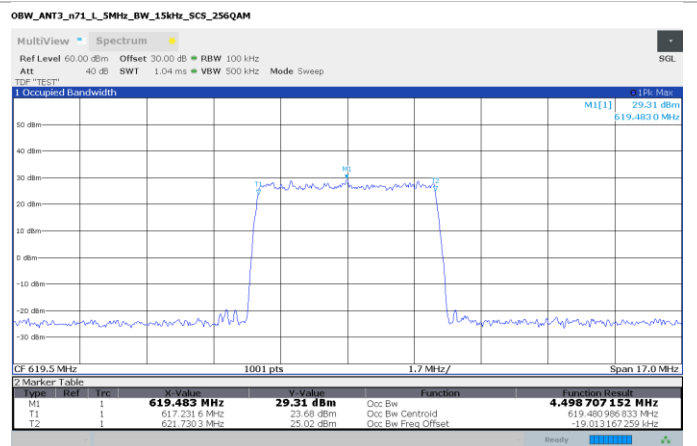
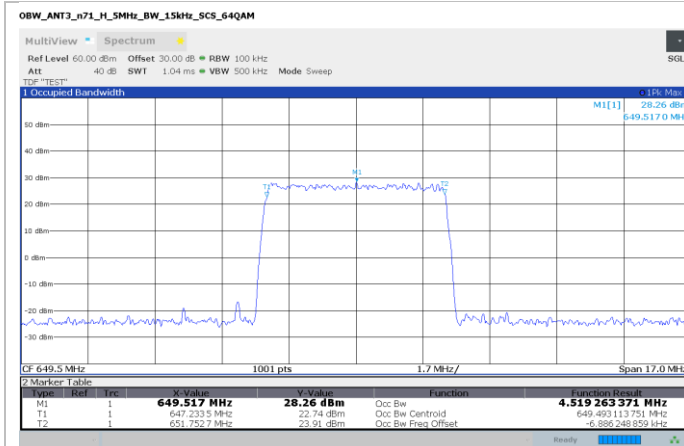
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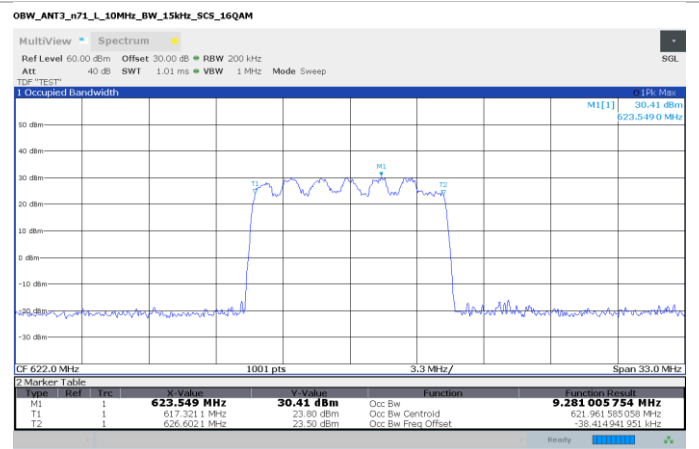
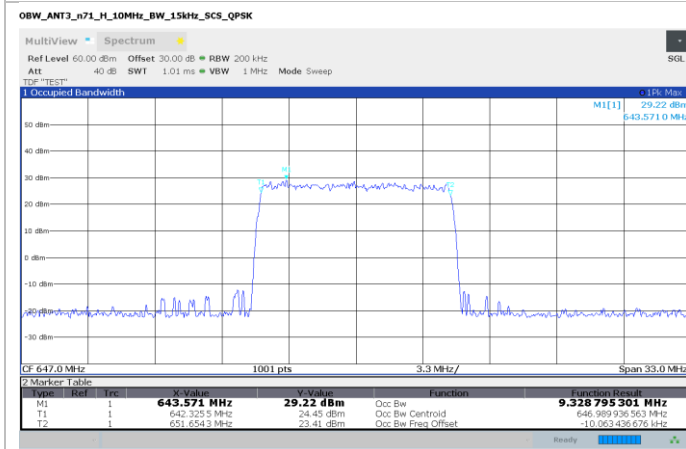
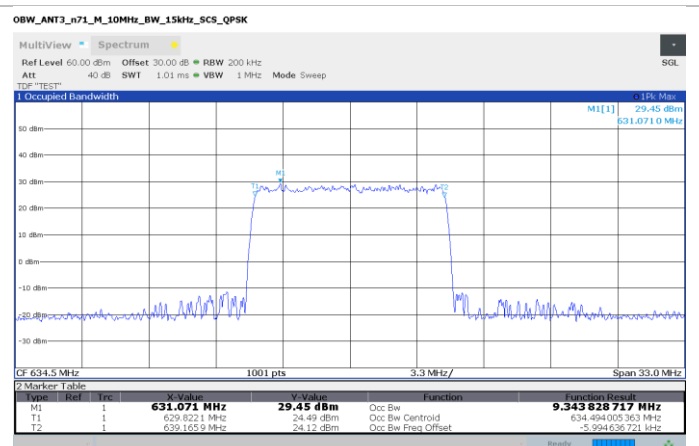
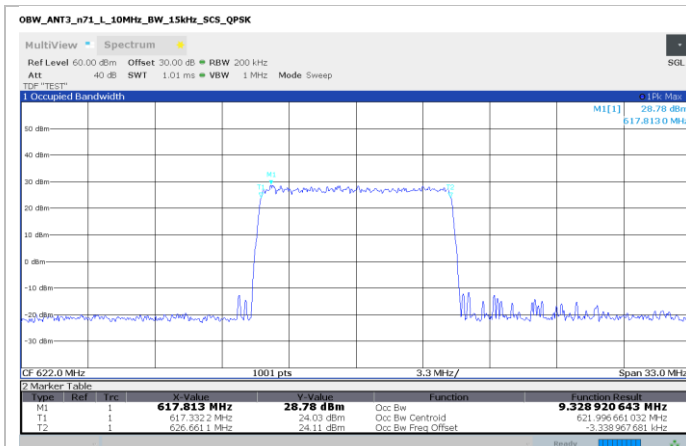


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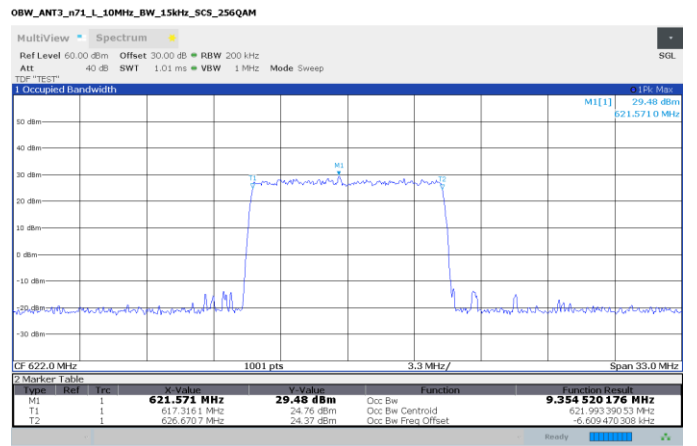
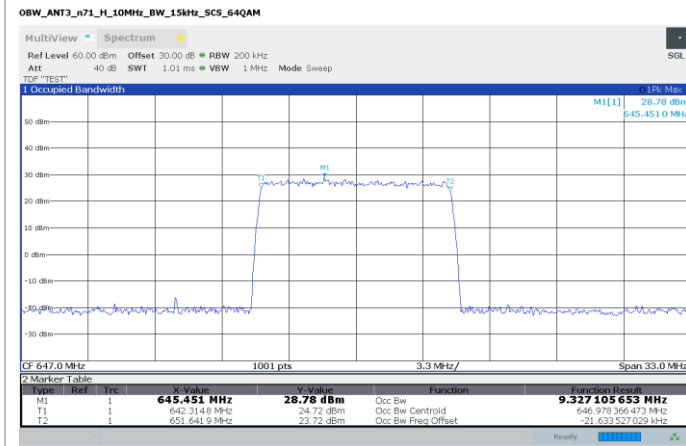
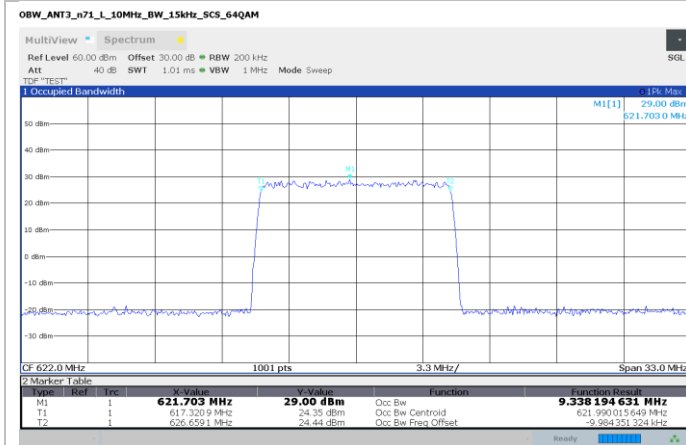
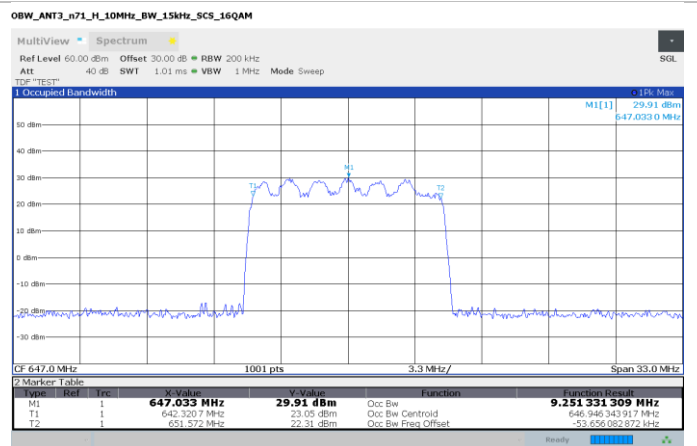
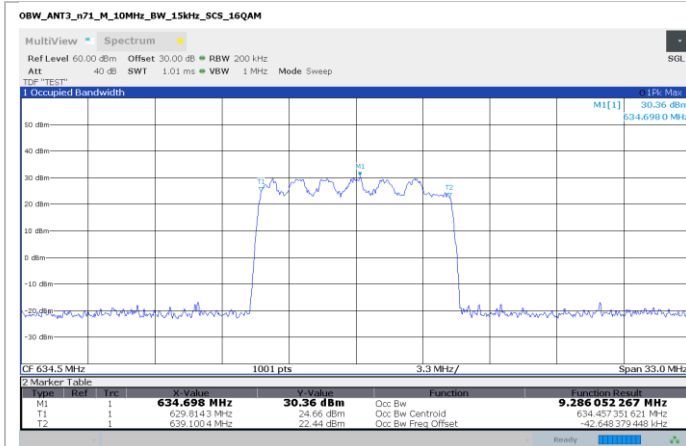


Band n71 – 10 MHz



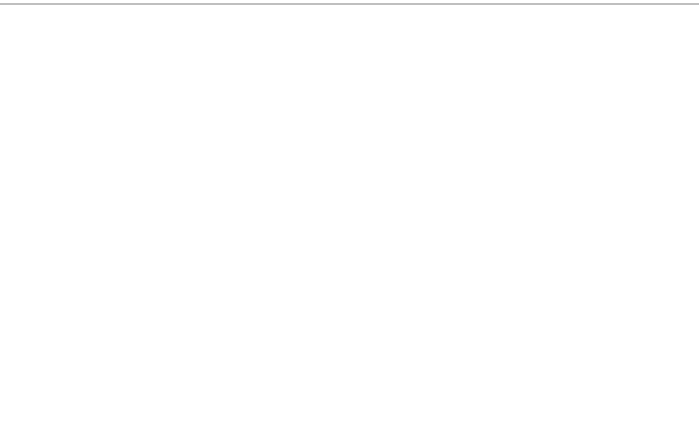
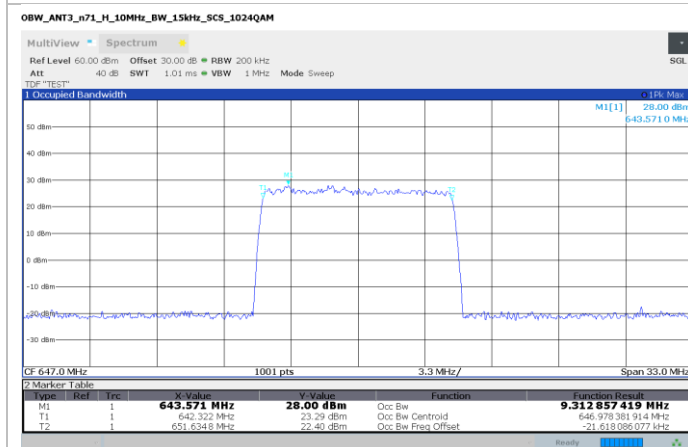
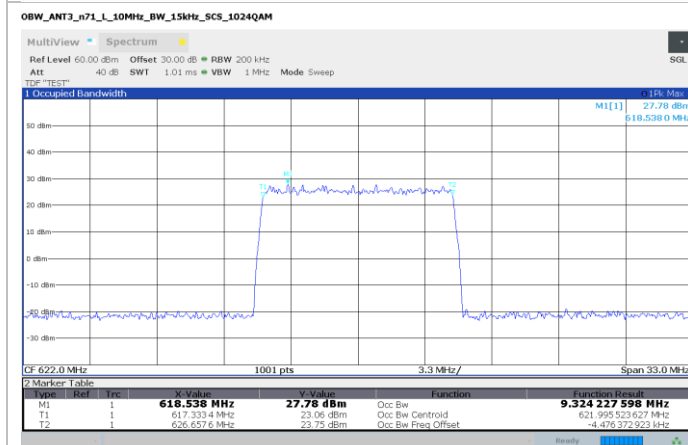
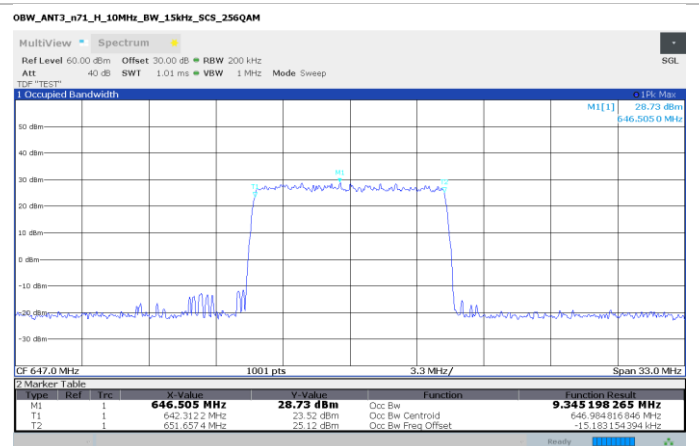
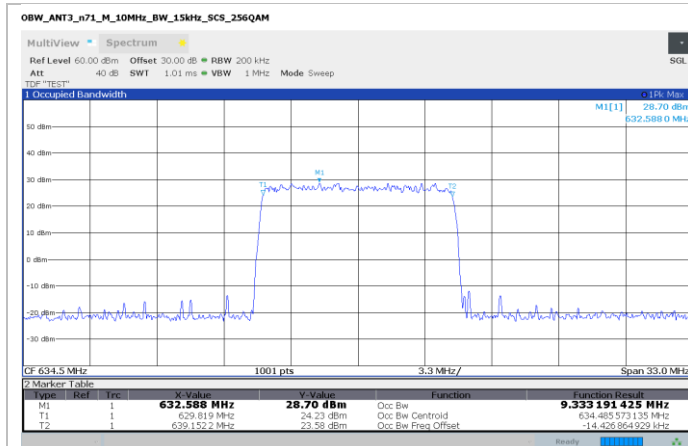
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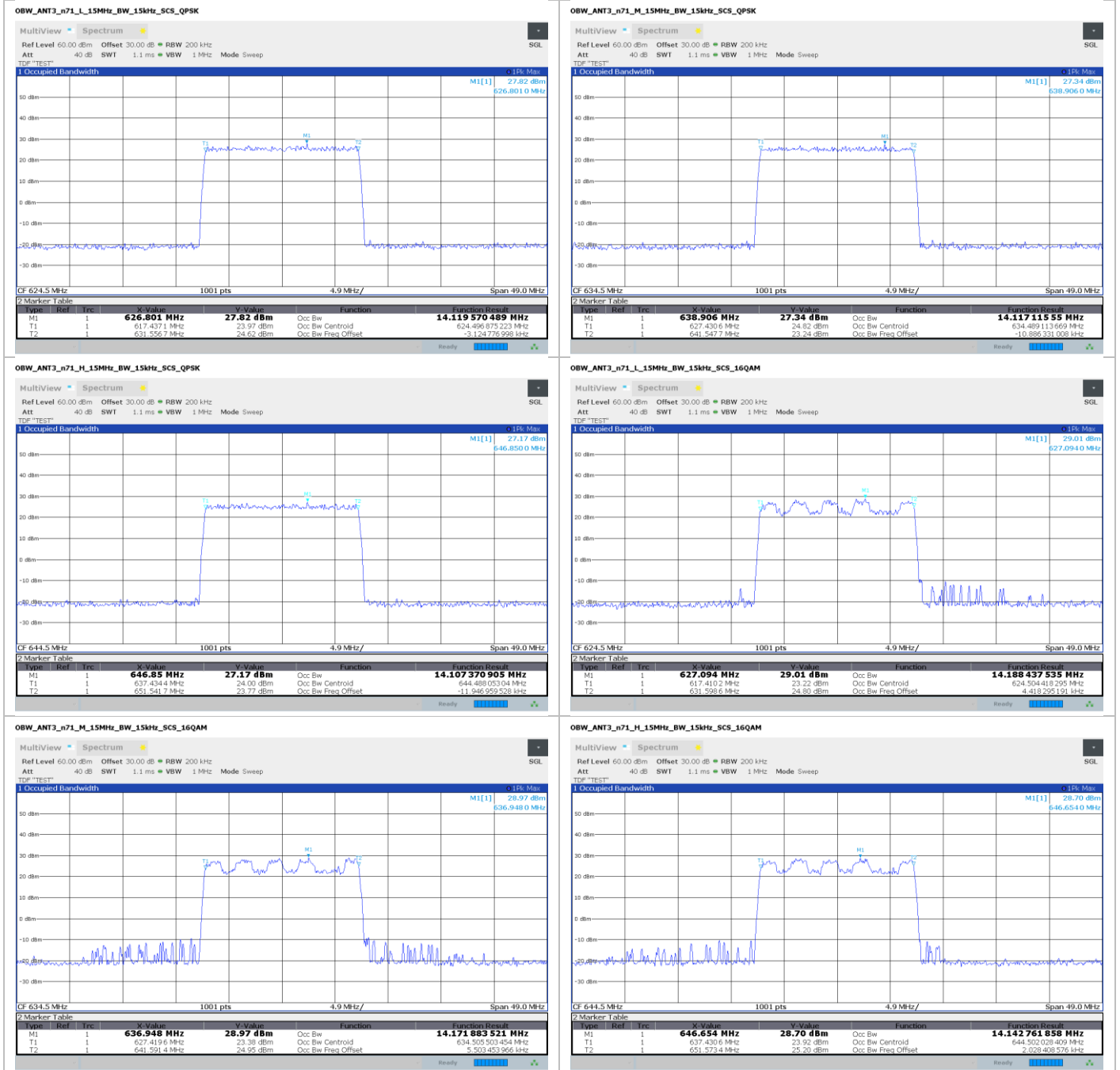


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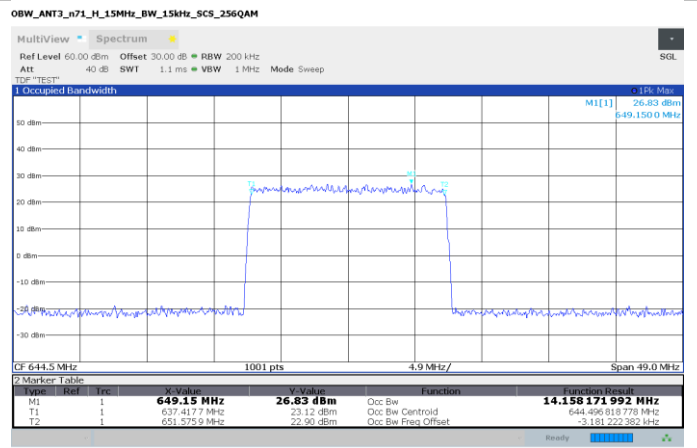
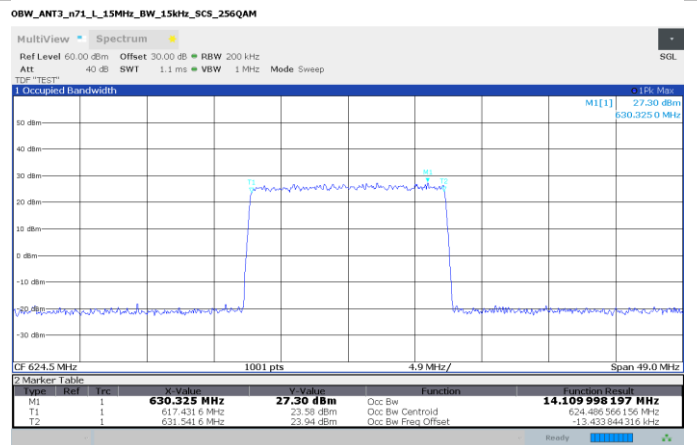
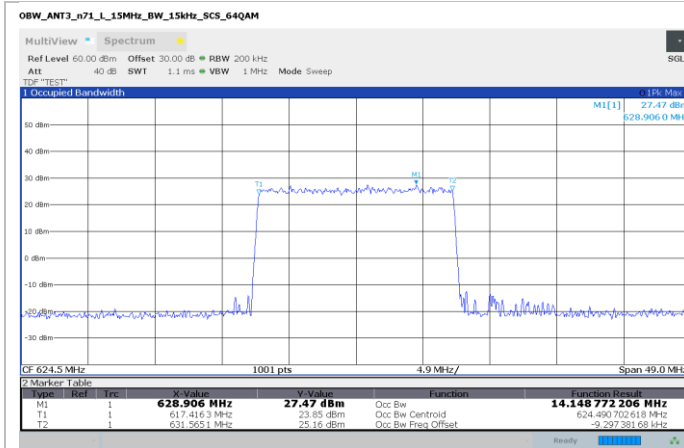


Band n71 – 15 MHz



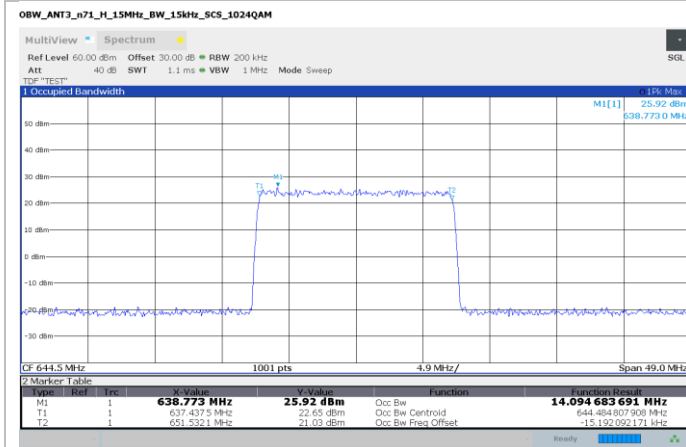
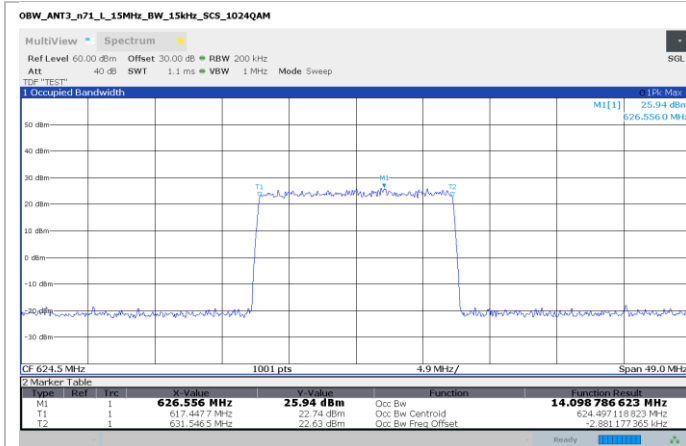
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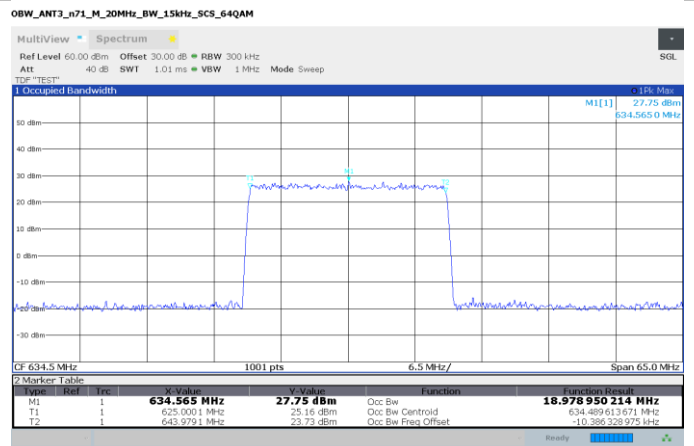
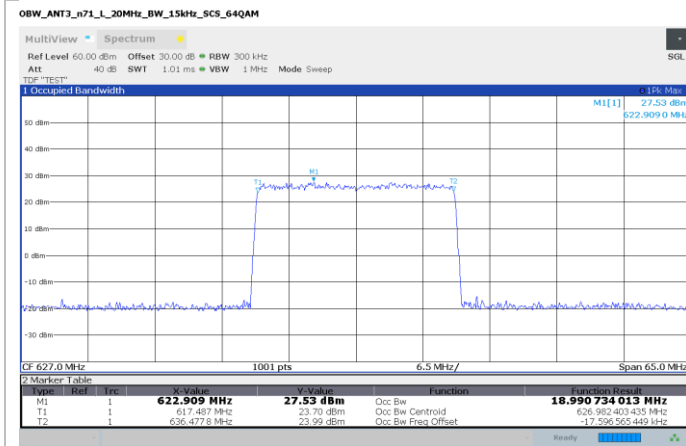
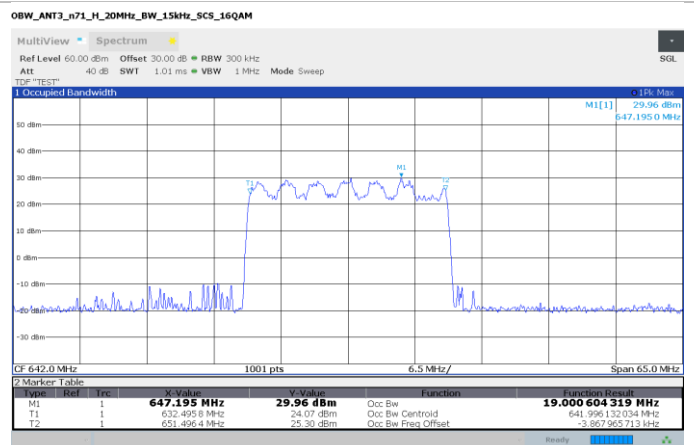
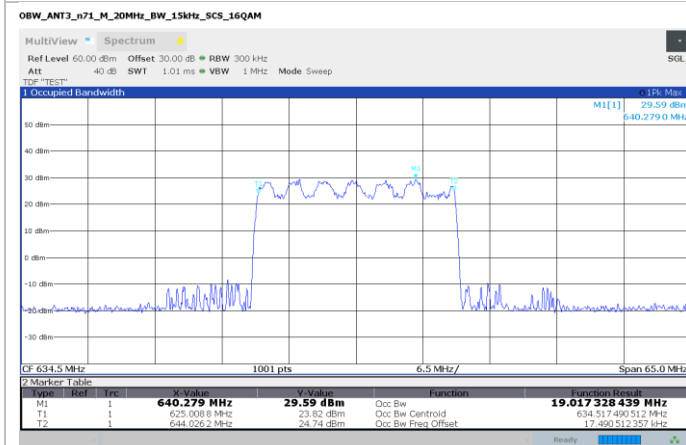
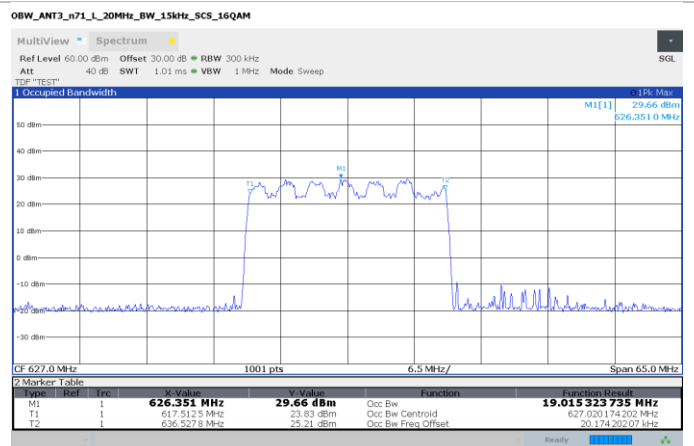
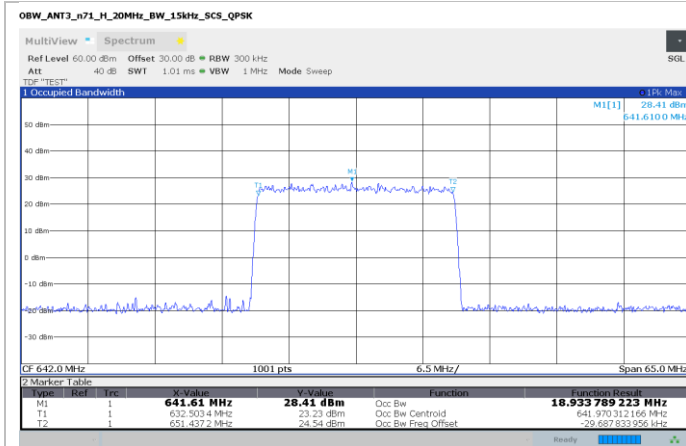


Band n71 – 20 MHz



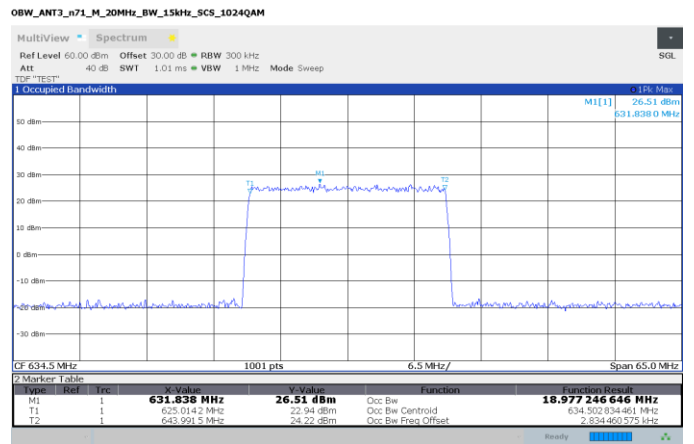
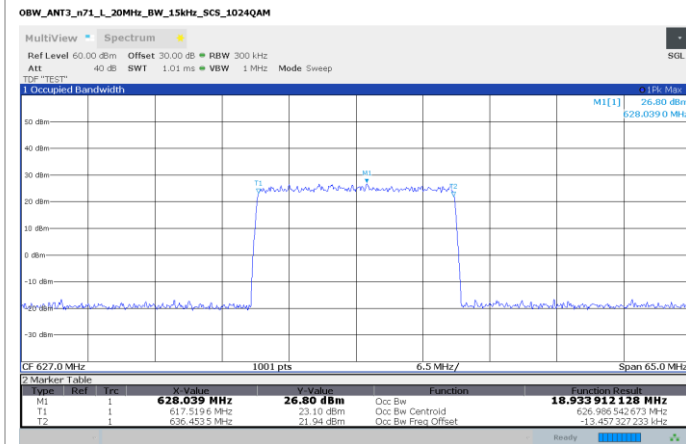
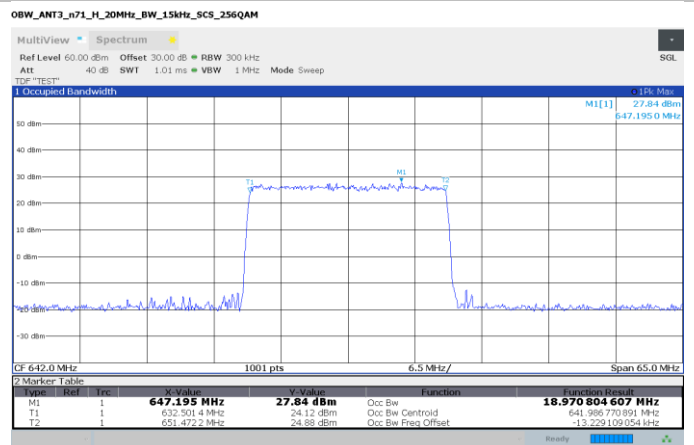
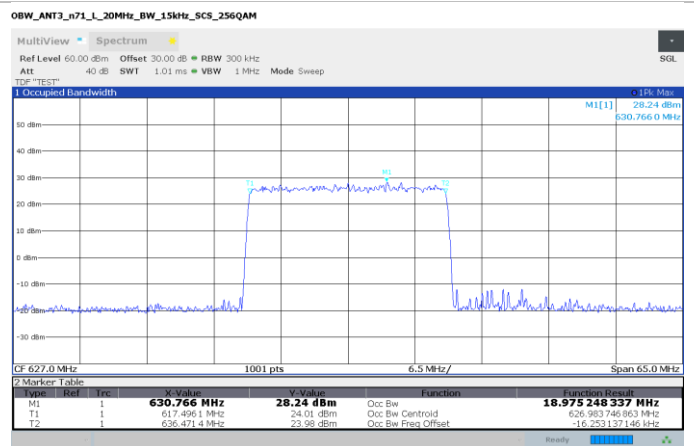
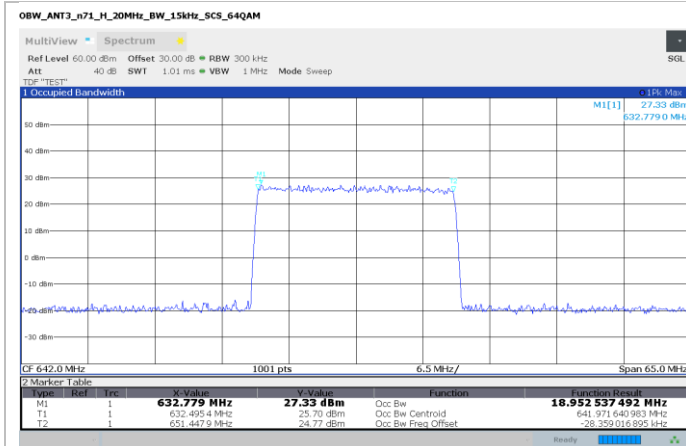
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8.3 FCC §27.53 (h)(3) / §90.209 26 dB Occupied Bandwidth

8.3.1 Definitions and limits

(3) Measurement procedure. (i) Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. 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.

8.3.2 Test summary

Test date	July 12, 2022	Temperature	21 °C
Test engineer	Lan Sayasane, EMC Test Engineer	Air pressure	1005 mbar
Verdict	Pass	Relative humidity	65%

8.3.3 Observations, settings and special notes

Selection of Port C was according to section 8.3.4 of this document.

Test method: ANSI C63.26 Section 5.4.4

Spectrum analyzer settings:

Resolution bandwidth	1% - 5% OBW
Video bandwidth	3*RBW
Frequency span	2*OBW
Detector mode	Peak
Trace mode	Max Hold

8.3.4 Test data

Band n26:

Band	OBW Declared	Port	Channel (MHz)	26 dB OBW (MHz)
n26 (NB-IoT)	0.2 MHz	C	864.1	0.188

Table 8.3-1: 26 dB Occupied bandwidth, 256QAM Modulation, NB-IoT mode

Band	OBW Declared	Port	Channel (MHz)	26 dB OBW (MHz)
n26 (NB-IoT)	0.2 MHz	C	868.85	0.188

Table 8.3-2: 26 dB Occupied bandwidth, 256QAM Modulation, NB-IoT mode

Band	OBW Declared	Port	Channel (MHz)	26 dB OBW (MHz)
n26	5 MHz	C	866.5	4.874

Table 8.3-3: 26 dB Occupied bandwidth, QPSK Modulation, 5 MHz

Band	OBW Declared	Port	Channel (MHz)	26 dB OBW
n26	5 MHz	C	866.5	4.84

Table 8.3-4: 26 dB Occupied bandwidth, 16QAM Modulation, 5 MHz

Band	OBW Declared	Port	Channel (MHz)	26 dB OBW
n26	5 MHz	C	866.5	4.84

Table 8.3-5: 26 dB Occupied bandwidth, 64QAM Modulation, 5 MHz

Band	OBW Declared	Port	Channel (MHz)	26 dB OBW
n26	5 MHz	C	866.5	4.84

Table 8.3-6: 26 dB Occupied bandwidth, 256QAM Modulation, 5 MHz

Band	OBW Declared	Port	Channel (MHz)	26 dB OBW
n26	5 MHz	C	866.5	4.84

Table 8.3-7: 26 dB Occupied bandwidth, 1024QAM Modulation, 5 MHz