



# FCC RADIO TEST REPORT

**FCC ID** : 2AHBN-AP63  
**Equipment** : Premium Outdoor 802.11ax WiFi and BLE Array AP  
**Brand Name** : Mist  
**Model Name** : AP63, AP63E  
**Applicant** : Juniper Networks, Inc.  
1133 Innovation Way, Sunnyvale, CA 94089, USA  
**Manufacturer** : Juniper Networks, Inc.  
1133 Innovation Way, Sunnyvale, CA 94089, USA  
**Standard** : 47 CFR FCC Part 15.247

The product was received on Apr. 16, 2020, and testing was started from Jul. 03, 2020 and completed on Aug. 03, 2020. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

  
Approved by: Cliff Chang

**SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory**  
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



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**Photographs of EUT v01**





### Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
3.1	15.207	AC Power-line Conducted Emissions	PASS	-
3.2	15.247(a)	DTS Bandwidth	PASS	-
3.3	15.247(b)	Maximum Conducted Output Power	PASS	-
3.4	15.247(e)	Power Spectral Density	PASS	-
3.5	15.247(d)	Emissions in Non-restricted Frequency Bands	PASS	-
3.6	15.247(d)	Emissions in Restricted Frequency Bands	PASS	-

**Declaration of Conformity:**

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

**Comments and Explanations:**

1. The test configuration, test mode and test software were written in this test report are declared by the manufacturer.
2. The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: **Sam Chen**  
Report Producer: **Wendy Pan**



# 1 General Description

## 1.1 Information

### 1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
2400-2483.5	b, g, n (HT20), VHT20, ax (HEW20)	2412-2462	1-11 [11]
2400-2483.5	n (HT40), VHT40, ax (HEW40)	2422-2452	3-9 [7]

#### For Radio 2

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	802.11b	20	4TX
2.4-2.4835GHz	802.11g	20	4TX
2.4-2.4835GHz	802.11n HT20	20	4TX
2.4-2.4835GHz	802.11n HT20-BF	20	4TX
2.4-2.4835GHz	VHT20	20	4TX
2.4-2.4835GHz	VHT20-BF	20	4TX
2.4-2.4835GHz	802.11ax HEW20	20	4TX
2.4-2.4835GHz	802.11ax HEW20-BF	20	4TX
2.4-2.4835GHz	802.11n HT40	40	4TX
2.4-2.4835GHz	802.11n HT40-BF	40	4TX
2.4-2.4835GHz	VHT40	40	4TX
2.4-2.4835GHz	VHT40-BF	40	4TX
2.4-2.4835GHz	802.11ax HEW40	40	4TX
2.4-2.4835GHz	802.11ax HEW40-BF	40	4TX

#### For Radio 3

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	802.11b	20	2TX
2.4-2.4835GHz	802.11g	20	2TX
2.4-2.4835GHz	802.11n HT20	20	2TX
2.4-2.4835GHz	VHT20	20	2TX
2.4-2.4835GHz	802.11ax HEW20	20	2TX
2.4-2.4835GHz	802.11n HT40	40	2TX
2.4-2.4835GHz	VHT40	40	2TX
2.4-2.4835GHz	VHT40-BF	40	2TX
2.4-2.4835GHz	802.11ax HEW40	40	2TX



Note:

- ◆ 11b mode uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.
- ◆ 11g, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ◆ VHT20, VHT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- ◆ HEW20, HEW40 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- ◆ BWch is the nominal channel bandwidth.



1.1.2 Antenna Information

For Configuration 1 / Internal Antenna of EUT:

Ant.	Port	Brand	Model Name	Antenna Type	Connector	Antenna Gain(dBi)			Radio
						WLAN 2.4GHz	WLAN 5GHz	Bluetooth	
1 ~ 4	1~4	Juniper	81XKAF15,G35	PIFA Antenna	I-PEX	-	6	-	R1-5GHz
5~8	1~4	Juniper	81XKAF15,G35	PIFA Antenna	I-PEX	4	-	-	R2-2.4GHz
9~10	1~2	Juniper	81XKAF15,G35	PIFA Antenna	I-PEX	2.3	4.7	-	R3-2.4GHz R3-5GHz
11 ~ 18	1	Juniper	81XKAF15,G35	PIFA Antenna	I-PEX	-	-	5.1	R4
19	1	Juniper	81XKAF15,G35	PIFA Antenna	I-PEX	-	-	4.3	R4
20	1	Juniper	81XKAF15,G35	PIFA Antenna	I-PEX	-	-	1.4	R4

Note: The above information was declared by manufacturer.

**For Radio 1 / 5GHz function:**

**For IEEE 802.11a/n/ac/ax mode (4TX/4RX):**

Port 1, Port 2, Port 3 and Port 4 can be used as transmitting/receiving antenna.

Port 1, Port 2, Port 3 and Port 4 could transmit/receive simultaneously.

**For Radio 2 / 2.4GHz function:**

**For IEEE 802.11b/g/n/ax and VHT mode (4TX/4RX):**

Port 1, Port 2, Port 3 and Port 4 can be used as transmitting/receiving antenna.

Port 1, Port 2, Port 3 and Port 4 could transmit/receive simultaneously.

**For Radio 3 / 2.4GHz function:**

**For IEEE 802.11b/g/n/ax and VHT mode (2TX/2RX):**

Port 1 and Port 2 can be used as transmitting/receiving antenna.

Port 1 and Port 2 could transmit/receive simultaneously.

**For Radio 3 / 5GHz function:**

**For IEEE 802.11b/g/n/ac/ax mode (2TX/2RX):**

Port 1 and Port 2 can be used as transmitting/receiving antenna.

Port 1 and Port 2 could transmit/receive simultaneously.

**For Radio 4 / Bluetooth function (1TX/1RX):**

Only Port 1 can be use as transmitting/receiving antenna.



**For Configuration 3 / Internal Antenna of EUT:**

Ant.	Port	Brand	Model Name	Antenna Type	Connector	Antenna Gain(dBi)					Radio
						WLAN 2.4GHz	WLAN 5GHz			Bluetooth	
							B1 (R1)	B4 (R2)	B1, B4 (R3)		
1 ~ 4	R1:4~1 R2:1~4	Juniper	81XKAF15,G35	PIFA Antenna	I-PEX	4	6	-	-	-	R1-5GHz R2-2.4GHz
5~8	1~4	Juniper	81XKAF15,G35	PIFA Antenna	I-PEX	-	-	6	-	-	R2-5GHz
9~10	1~2	Juniper	81XKAF15,G35	PIFA Antenna	I-PEX	2.3	-	-	4.7	-	R3-2.4GHz R3-5GHz
11~18	1	Juniper	81XKAF15,G35	PIFA Antenna	I-PEX	-	-	-	-	5.1	R4
19	1	Juniper	81XKAF15,G35	PIFA Antenna	I-PEX	-	-	-	-	4.3	R4
20	1	Juniper	81XKAF15,G35	PIFA Antenna	I-PEX	-	-	-	-	1.4	R4

Note: The above information was declared by manufacturer.

**For Radio 1 / 5GHz function:**

**For IEEE 802.11a/n/ac/ax mode (4TX/4RX):**

Port 1, Port 2, Port 3 and Port 4 can be used as transmitting/receiving antenna.

Port 1, Port 2, Port 3 and Port 4 could transmit/receive simultaneously.

**For Radio 2 / 2.4GHz function:**

**For IEEE 802.11b/g/n/ax and VHT mode (4TX/4RX):**

Port 1, Port 2, Port 3 and Port 4 can be used as transmitting/receiving antenna.

Port 1, Port 2, Port 3 and Port 4 could transmit/receive simultaneously.

**For Radio 2 / 5GHz Band 4 function:**

**For IEEE 802.11b/g/n/ac/ax mode (4TX/4RX):**

Port 1, Port 2, Port 3 and Port 4 can be used as transmitting/receiving antenna.

Port 1, Port 2, Port 3 and Port 4 could transmit/receive simultaneously.

**For Radio 3 / 2.4GHz function:**

**For IEEE 802.11b/g/n/ax and VHT mode (2TX/2RX):**

Port 1 and Port 2 can be used as transmitting/receiving antenna.

Port 1 and Port 2 could transmit/receive simultaneously.

**For Radio 3 / 5GHz function:**

**For IEEE 802.11b/g/n/ac/ax mode (2TX/2RX):**

Port 1 and Port 2 can be used as transmitting/receiving antenna.

Port 1 and Port 2 could transmit/receive simultaneously.

**For Radio 4 / Bluetooth function (1TX/1RX):**

Only Port 1 can be use as transmitting/receiving antenna.





**For Configuration 2 / External Antenna of EUT:**

Ant.	Port	Brand	Model Name	Antenna Type	Connector	Antenna Gain(dBi)			Radio
						WLAN 2.4GHz	WLAN 5GHz	Bluetooth	
1	1~4	AccelTex	ATS-OO-245-46-6NP-36	Omni Antenna	N-Style	4	6	-	R2-2.4GHz R1-5GHz
	1~2	AccelTex	ATS-OO-245-46-6NP-36	Omni Antenna	N-Style	4	6	-	R3-2.4GHz R3-5GHz
2	1~4	AccelTex	ATS-OP-245-810-6NP-36	Patch Antenna	N-Style	8	10	-	R2-2.4GHz R1-5GHz
	1~2	AccelTex	ATS-OP-245-810-6NP-36	Patch Antenna	N-Style	8	10	-	R3-2.4GHz R3-5GHz
3 ~ 10	1	Juniper	81XKAF15,G36	PIFA Antenna	I-PEX	-	-	5.1	R4
11	1	Juniper	81XKAF15,G36	PIFA Antenna	I-PEX	-	-	4.3	R4
12	1	Juniper	81XKAF15,G36	PIFA Antenna	I-PEX	-	-	1.4	R4

Note: The above information was declared by manufacturer.

**For Radio 1 / 5GHz function:**

**For IEEE 802.11a/n/ac/ax mode (4TX/4RX):**

Port 1, Port 2, Port 3 and Port 4 can be used as transmitting/receiving antenna.  
Port 1, Port 2, Port 3 and Port 4 could transmit/receive simultaneously.

**For Radio 2 / 2.4GHz function:**

**For IEEE 802.11b/g/n/ax and VHT mode (4TX/4RX):**

Port 1, Port 2, Port 3 and Port 4 can be used as transmitting/receiving antenna.  
Port 1, Port 2, Port 3 and Port 4 could transmit/receive simultaneously.

**For Radio 3 / 2.4GHz function:**

**For IEEE 802.11b/g/n/ax and VHT mode (2TX/2RX):**

Port 1 and Port 2 can be used as transmitting/receiving antenna.  
Port 1 and Port 2 could transmit/receive simultaneously.

**For Radio 3 / 5GHz function:**

**For IEEE 802.11b/g/n/ac/ax mode (2TX/2RX):**

Port 1 and Port 2 can be used as transmitting/receiving antenna.  
Port 1 and Port 2 could transmit/receive simultaneously.

**For Radio 4 / Bluetooth function (1TX/1RX):**

Only Port 1 can be use as transmitting/receiving antenna.



### 1.1.3 Mode Test Duty Cycle

#### For EUT 1 / Radio 2:

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11b Nss1,(1Mbps)_4TX	0.957	0.19	12.424m	100
802.11g Nss1,(6Mbps)_4TX	0.953	0.21	2.07m	1k
802.11ax HEW20 _Nss1,(MCS0)_4TX	0.981	0.08	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ax HEW40 _Nss1,(MCS0)_4TX	0.964	0.16	782.5u	3k

#### For EUT 1 / Radio 3:

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11b Nss1,(1Mbps)_2TX	0.957	0.19	12.42m	100
802.11g Nss1,(6Mbps)_2TX	0.955	0.2	2.07m	1k
802.11ax HEW20 _Nss1,(MCS0)_2TX	0.978	0.1	1.489m	1k
802.11ax HEW40 _Nss1,(MCS0)_2TX	0.964	0.16	782.5u	3k

#### For EUT 2 / Radio 2 / External Ant.1:

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11b Nss1,(1Mbps)_4TX	0.936	0.29	12.42m	100
802.11g Nss1,(6Mbps)_4TX	0.953	0.21	2.068m	1k
802.11ax HEW20 _Nss1,(MCS0)_4TX	0.981	0.08	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ax HEW40 _Nss1,(MCS0)_4TX	0.964	0.16	782.5u	3k

#### For EUT 2 / Radio 3 / External Ant.1:

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11b Nss1,(1Mbps)_2TX	0.936	0.29	12.42m	100
802.11g Nss1,(6Mbps)_2TX	0.952	0.21	2.066m	1k
802.11ax HEW20 _Nss1,(MCS0)_2TX	0.98	0.09	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ax HEW40 _Nss1,(MCS0)_2TX	0.962	0.17	781.875u	3k

#### For EUT 2 / Radio 2 / External Ant.2:

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11b Nss1,(1Mbps)_4TX	0.958	0.19	12.424m	100
802.11g Nss1,(6Mbps)_4TX	0.955	0.2	2.07m	1k
802.11ax HEW20 _Nss1,(MCS0)_4TX	0.978	0.1	1.489m	1k
802.11ax HEW40 _Nss1,(MCS0)_4TX	0.961	0.17	781.25u	3k

#### For EUT 2 / Radio 3 / External Ant.2:

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11b Nss1,(1Mbps)_2TX	0.936	0.29	12.42m	100
802.11g Nss1,(6Mbps)_2TX	0.952	0.21	2.066m	1k
802.11ax HEW20 _Nss1,(MCS0)_2TX	0.98	0.09	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ax HEW40 _Nss1,(MCS0)_2TX	0.962	0.17	781.875u	3k

Note: DC is Duty Cycle.  
DCF is Duty Cycle Factor.



### 1.1.4 EUT Operational Condition

<b>EUT Power Type</b>	From PoE		
<b>Beamforming Function</b>	<input checked="" type="checkbox"/> With beamforming	<input type="checkbox"/> Without beamforming	
	For 802.11n/VHT/ax in 2.4GHz and 802.11n/ac/ax in 5GHz.		
<b>Function</b>	<input checked="" type="checkbox"/> Point-to-multipoint	<input type="checkbox"/> Point-to-point	
<b>Test Software Version</b>	accessMTool 3.2.0.2		

Note: The above information was declared by manufacturer.

### 1.1.5 Table for Multiple Listing

The model names in the following table are all refer to the identical product.

Model Name	EUT	Description
AP63	EUT 1	The model name: AP63 indicates that it comes with internal antennas and external antenna connectors.
AP63E	EUT 2	

### 1.1.6 Table for EUT Configuration

Configuration	EUT	Radio 1	Radio 2	Radio 3	Radio 4
1	1	WLAN 5GHz	WLAN 2.4GHz	WLAN 2.4GHz + WLAN 5GHz	Bluetooth
2	2	WLAN 5GHz	WLAN 2.4GHz	WLAN 2.4GHz + WLAN 5GHz	Bluetooth
3	1	WLAN 5GHz	WLAN 2.4GHz + WLAN 5GHz	WLAN 2.4GHz + WLAN 5GHz	Bluetooth

Note: 1. The Bluetooth antennas are the same for EUT 1 and EUT 2, so there's only EUT 1 was tested and recorded in the report.

2. The above information was declared by manufacturer.

3.Configuration 1: Radio 1 in 5GHz support Band 1/4, Radio 3 in 5GHz support Band 1/4.

Configuration 2: Radio 1 in 5GHz support Band 1/4, Radio 3 in 5GHz support Band 1/4.

Configuration 3: Radio 1 in 5GHz support Band 1, Radio 2 in 5GHz support Band 4, Radio 3 in 5GHz support Band 1/4.

4. For test items AC Power-line Conducted Emissions, Unwanted Emissions below 1GHz and Radiated Emission Co-location the test configuration was declared by manufacturer as below:

Radio 1:WLAN 5GHz (Low Band) + Radio 2: WLAN 2.4GHz + Radio 3: WLAN 5GHz (High Band) + Radio 4: Bluetooth.



### 1.2 Applicable Standards

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

- ♦ 47 CFR FCC Part 15
- ♦ ANSI C63.10-2013

The following reference test guidance is not within the scope of accreditation of TAF.

- ♦ FCC KDB 558074 D01 v05r02
- ♦ FCC KDB 662911 D01 v02r01
- ♦ FCC KDB 414788 D01 v01r01

### 1.3 Testing Location Information

Testing Location		
<input type="checkbox"/>	HWA YA	ADD : No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL : 886-3-327-3456 FAX : 886-3-327-0973
<input checked="" type="checkbox"/>	JHUBEI	ADD : No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C. TEL : 886-3-656-9065 FAX : 886-3-656-9085

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH03-CB	Benson Su	24.8-26.6°C / 56-61%	Jul. 07, 2020 ~ Jul. 27, 2020
Radiated<1GHz	10CH01-CB	Ryo Fan	22~23°C / 59~60%	Jul. 10, 2020 ~ Jul. 11, 2020
Radiated Emission Co-location	03CH06-CB	Eason Chen	25.4-26.8°C / 59-61%	Aug. 03, 2020
Radiated>1GHz	03CH01-CB	Eason Chen	24.8-26.1°C / 58-61%	Jul. 03, 2020 ~ Jul. 24, 2020
	03CH03-CB	Eason Chen	25.1-26.9°C / 58-60%	Jul. 03, 2020 ~ Jul. 24, 2020
AC Conduction	CO01-CB	Max Lin	22~23°C / 61~62%	Jul. 13, 2020

Test site Designation No. TW0006 with FCC.  
Test site registered number IC 4086D with Industry Canada.



### 1.4 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	2.0 dB	Confidence levels of 95%
Radiated Emissions below 1GHz	4.8 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	5.0 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.6 dB	Confidence levels of 95%
Radiated Emission (40GHz ~ 60GHz)	3.9 dB	Confidence levels of 95%
Radiated Emission (60GHz ~ 90GHz)	4.5 dB	Confidence levels of 95%
Radiated Emission (90GHz ~ 200GHz)	5.3 dB	Confidence levels of 95%
Conducted Emission	2.8 dB	Confidence levels of 95%



## 2 Test Configuration of EUT

### 2.1 Test Channel Mode

For EUT 1 / Radio 2:

Mode	PowerSetting
802.11b_Nss1,(1Mbps)_4TX	-
2412MHz	92
2437MHz	95
2462MHz	86
802.11g_Nss1,(6Mbps)_4TX	-
2412MHz	65
2417MHz	71
2437MHz	82
2457MHz	64
2462MHz	59
802.11ax HEW20_Nss1,(MCS0)_4TX	-
2412MHz	60
2417MHz	70
2437MHz	78
2457MHz	63
2462MHz	50
802.11ax HEW40_Nss1,(MCS0)_4TX	-
2422MHz	61
2437MHz	65
2452MHz	59
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-
2412MHz	60
2417MHz	70
2437MHz	78
2457MHz	63
2462MHz	50
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-
2422MHz	61
2437MHz	65
2452MHz	59



For EUT 1 / Radio 3:

Mode	PowerSetting
802.11b_Nss1,(1Mbps)_2TX	-
2412MHz	90
2437MHz	96
2462MHz	89
802.11g_Nss1,(6Mbps)_2TX	-
2412MHz	65
2417MHz	76
2437MHz	86
2457MHz	68
2462MHz	61
802.11ax HEW20_Nss1,(MCS0)_2TX	-
2412MHz	67
2417MHz	72
2437MHz	84
2457MHz	64
2462MHz	52
802.11ax HEW40_Nss1,(MCS0)_2TX	-
2422MHz	62
2437MHz	65
2452MHz	58



For EUT 2 / Radio 2 / External Ant.1:

Mode	Power Setting
802.11b_Nss1,(1Mbps)_4TX	-
2412MHz	87
2437MHz	95
2462MHz	84
802.11g_Nss1,(6Mbps)_4TX	-
2412MHz	60
2417MHz	70
2437MHz	82
2457MHz	65
2462MHz	56
802.11ax HEW20_Nss1,(MCS0)_4TX	-
2412MHz	54
2417MHz	66
2437MHz	81
2457MHz	54
2462MHz	47
802.11ax HEW40_Nss1,(MCS0)_4TX	-
2422MHz	55
2437MHz	63
2452MHz	55
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-
2412MHz	054
2417MHz	66
2437MHz	81
2457MHz	54
2462MHz	47
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-
2422MHz	55
2437MHz	63
2452MHz	55





**For EUT 2 / Radio 3 / External Ant.1:**

<b>Mode</b>	<b>Power Setting</b>
802.11b_Nss1,(1Mbps)_2TX	-
2412MHz	85
2437MHz	95
2462MHz	85
802.11g_Nss1,(6Mbps)_2TX	-
2412MHz	61
2417MHz	71
2437MHz	84
2457MHz	71
2462MHz	61
802.11ax HEW20_Nss1,(MCS0)_2TX	-
2412MHz	59
2417MHz	69
2437MHz	83
2457MHz	65
2462MHz	55
802.11ax HEW40_Nss1,(MCS0)_2TX	-
2422MHz	59
2437MHz	64
2452MHz	58



For EUT 2 / Radio 2 / External Ant.2:  
For Conducted measurement and Band Edge Emission test:

Mode	Power Setting
802.11b_Nss1,(1Mbps)_4TX	-
2412MHz	84
2437MHz	90
2462MHz	83
802.11g_Nss1,(6Mbps)_4TX	-
2412MHz	53
2417MHz	57
2437MHz	73
2457MHz	61
2462MHz	55
802.11ax HEW20_Nss1,(MCS0)_4TX	-
2412MHz	49
2417MHz	60
2437MHz	68
2457MHz	50
2462MHz	46
802.11ax HEW40_Nss1,(MCS0)_4TX	-
2422MHz	49
2437MHz	57
2452MHz	51
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-
2412MHz	49
2417MHz	60
2437MHz	62
2457MHz	50
2462MHz	46
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-
2422MHz	49
2437MHz	57
2452MHz	51



**For Radiated Emission:**

Mode	Radiated Setting
802.11b_Nss1,(1Mbps)_4TX	-
2412MHz	101
2437MHz	108
2462MHz	108
802.11g_Nss1,(6Mbps)_4TX	-
2412MHz	108
2437MHz	108
2462MHz	108
802.11ax HEW20_Nss1,(MCS0)_4TX	-
2412MHz	108
2437MHz	108
2462MHz	108
802.11ax HEW40_Nss1,(MCS0)_4TX	-
2422MHz	108
2437MHz	108
2452MHz	108



**For EUT 2 / Radio 3 / External Ant.2:  
For Conducted measurement and Band Edge Emission test:**

Mode	Power Setting
802.11b_Nss1,(1Mbps)_2TX	-
2412MHz	83
2437MHz	94
2462MHz	83
802.11g_Nss1,(6Mbps)_2TX	-
2412MHz	55
2417MHz	65
2437MHz	81
2457MHz	63
2462MHz	54
802.11ax HEW20_Nss1,(MCS0)_2TX	-
2412MHz	53
2417MHz	64
2437MHz	75
2457MHz	60
2462MHz	49
802.11ax HEW40_Nss1,(MCS0)_2TX	-
2422MHz	52
2437MHz	57
2452MHz	51



For Radiated Emission:

Mode	Radiated Setting
802.11b_Nss1,(1Mbps)_2TX	-
2412MHz	97
2437MHz	108
2462MHz	108
802.11g_Nss1,(6Mbps)_2TX	-
2412MHz	108
2437MHz	108
2462MHz	108
802.11ax HEW20_Nss1,(MCS0)_2TX	-
2412MHz	108
2437MHz	108
2462MHz	108
802.11ax HEW40_Nss1,(MCS0)_2TX	-
2422MHz	108
2437MHz	108
2452MHz	108

Note: The EUT supports beamforming and CDD modes, and the CDD mode is the worst case. Therefore, all test items are evaluated in the report. The beamforming mode only evaluates the output power.



## 2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
<b>Tests Item</b>	AC power-line conducted emissions
<b>Condition</b>	AC power-line conducted measurement for line and neutral
<b>Operating Mode</b>	Normal Link
1	EUT 2 Radio 1 (WLAN 5GHz / Low Band) + Radio 2 (WLAN 2.4GHz) + Radio 3 (WLAN 5GHz / High Band) + Radio 4 (Bluetooth) + External Ant. 2 + PoE 1

The Worst Case Mode for Following Conformance Tests	
<b>Tests Item</b>	DTS Bandwidth Maximum Conducted Output Power Power Spectral Density Emissions in Non-restricted Frequency Bands
<b>Test Condition</b>	Conducted measurement at transmit chains
<b>Test Mdoe</b>	1 EUT 1 / Radio 2
	2 EUT 1 / Radio 3
	3 EUT 2 / Radio 2 / External Ant.1
	4 EUT 2 / Radio 3 / External Ant.1
	5 EUT 2 / Radio 2 / External Ant.2
	6 EUT 2 / Radio 3 / External Ant.2



The Worst Case Mode for Following Conformance Tests				
<b>Tests Item</b>	Emissions in Restricted Frequency Bands			
<b>Test Condition</b>	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.			
<b>Operating Mode &lt; 1GHz</b>	Normal Link			
1	EUT 1 in Y axis Radio 1 (WLAN 5GHz / Low Band) + Radio 2 (WLAN 2.4GHz) + Radio 3 (WLAN 5GHz / High Band) + Radio 4 (Bluetooth) + PoE 1			
2	EUT 1 in Z axis Radio 1 (WLAN 5GHz / Low Band) + Radio 2 (WLAN 2.4GHz) + Radio 3 (WLAN 5GHz / High Band) + Radio 4 (Bluetooth) + PoE 1			
Mode 1 has been evaluated to be the worst case between Mode 1~2, thus measurement for Mode 3 ~ 4 will follow this same test mode.				
3	EUT 2 in Y axis Radio 1 (WLAN 5GHz / Low Band) + Radio 2 (WLAN 2.4GHz) + Radio 3 (WLAN 5GHz / High Band) + Radio 4 (Bluetooth) + External Ant. 1 + PoE 1			
4	EUT 2 in Y axis Radio 1 (WLAN 5GHz / Low Band) + Radio 2 (WLAN 2.4GHz) + Radio 3 (WLAN 5GHz / High Band) + Radio 4 (Bluetooth) + External Ant. 2 + PoE 1			
For operating mode 1 is the worst case and it was record in this test report.				
<b>Operating Mode &gt; 1GHz</b>	CTX			
1. The External Ant.1 was performed at 90° and 180° position and the worst case was found at 180°. So the measurement will follow this same test configuration.				
2. The EUT was performed at X、Y axis and Z axis and the worst case was found at below:				
Items	Radiated Emission		Band Edge Emission	
	Radio 2	Radio 3	Radio 2	Radio 3
EUT 1	Z axis	Y axis	Y axis	Z axis
EUT 2 + External Ant.1 in 180°	(Note 1)	(Note 1)	X axis	X axis
EUT 2 + External Ant.2	X axis	Y axis	X axis	Z axis
Note 1	The EUT 2 accompanies with two types of external antennas. The External Ant.2 with the highest gain and highest power setting were selected to conduct the measurement, and the test result is recorded in this test report.			



The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Radiated Emission Co-location
Test Condition	Radiated measurement
Operating Mode	Normal Link
1	Configuration 2: EUT 2 + Radio 1 (WLAN 5GHz) + Radio 2 (WLAN 2.4GHz)
2	Configuration 3: EUT 1 + Radio 1 (WLAN 5GHz / Low Band) + Radio 2 (WLAN 2.4GHz)
Refer to Appendix G for Radiated Emission Co-location.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
<b>For Configuration 1: EUT 1</b>	
1	Radio 1 (WLAN 5GHz) + Radio 2 (WLAN 2.4GHz) + Radio 3 (WLAN 2.4GHz) + Radio 4 (Bluetooth)
2	Radio 1 (WLAN 5GHz) + Radio 2 (WLAN 2.4GHz) + Radio 3 (WLAN 5GHz) + Radio 4 (Bluetooth)
<b>For Configuration 2: EUT 2</b>	
3	Radio 1 (WLAN 5GHz) + Radio 2 (WLAN 2.4GHz) + Radio 3 (WLAN 2.4GHz) + Radio 4 (Bluetooth)
4	Radio 1 (WLAN 5GHz) + Radio 2 (WLAN 2.4GHz) + Radio 3 (WLAN 5GHz) + Radio 4 (Bluetooth)
<b>For Configuration 3: EUT 1</b>	
5	Radio 1 (WLAN 5GHz / Low Band) + Radio 2 (WLAN 2.4GHz) + Radio 3 (WLAN 2.4GHz) + Radio 4 (Bluetooth)
6	Radio 1 (WLAN 5GHz / Low Band) + Radio 2 (WLAN 2.4GHz) + Radio 3 (WLAN 5GHz) + Radio 4 (Bluetooth)
7	Radio 1 (WLAN 5GHz / Low Band) + Radio 2 (WLAN 5GHz / High Band) + Radio 3 (WLAN 2.4GHz) + Radio 4 (Bluetooth)
8	Radio 1 (WLAN 5GHz / Low Band) + Radio 2 (WLAN 5GHz / High Band) + Radio 3 (WLAN 5GHz) + Radio 4 (Bluetooth)
Refer to Sporton Test Report No.: FA041650 for Co-location RF Exposure Evaluation.	

Note: The PoE is for measurement only, would not be marketed.

PoE information as below:

Power	Brand	Model
PoE 1	YAMAHA	YPS-PoE-AT
PoE 2	Buffalo	BIJ-POE-1P:T





## **2.3 EUT Operation during Test**

For CTX Mode:

The EUT was programmed to be in continuously transmitting mode.

For Normal Link:

During the test, the EUT operation to normal function.



## 2.4 Accessories

Flush Mount Bracket\*1  
Mounting Bracket\*2  
Seal\*2

## 2.5 Support Equipment

For AC Conduction and Radiated (below 1GHz):

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	PoE 1	YAMAHA	YPS-PoE-AT	N/A
B	2.5G PC	DELL	T3400	N/A
C	PoE LOAD	N/A	N/A	N/A
D	PoE LOAD NB	DELL	E6430	N/A
E	2.4G NB	DELL	E6430	N/A
F	5G-1 NB	DELL	E6430	N/A
G	5G-2 NB	DELL	E6430	N/A
H	Smart phone	Samsung	Galaxy J2	N/A

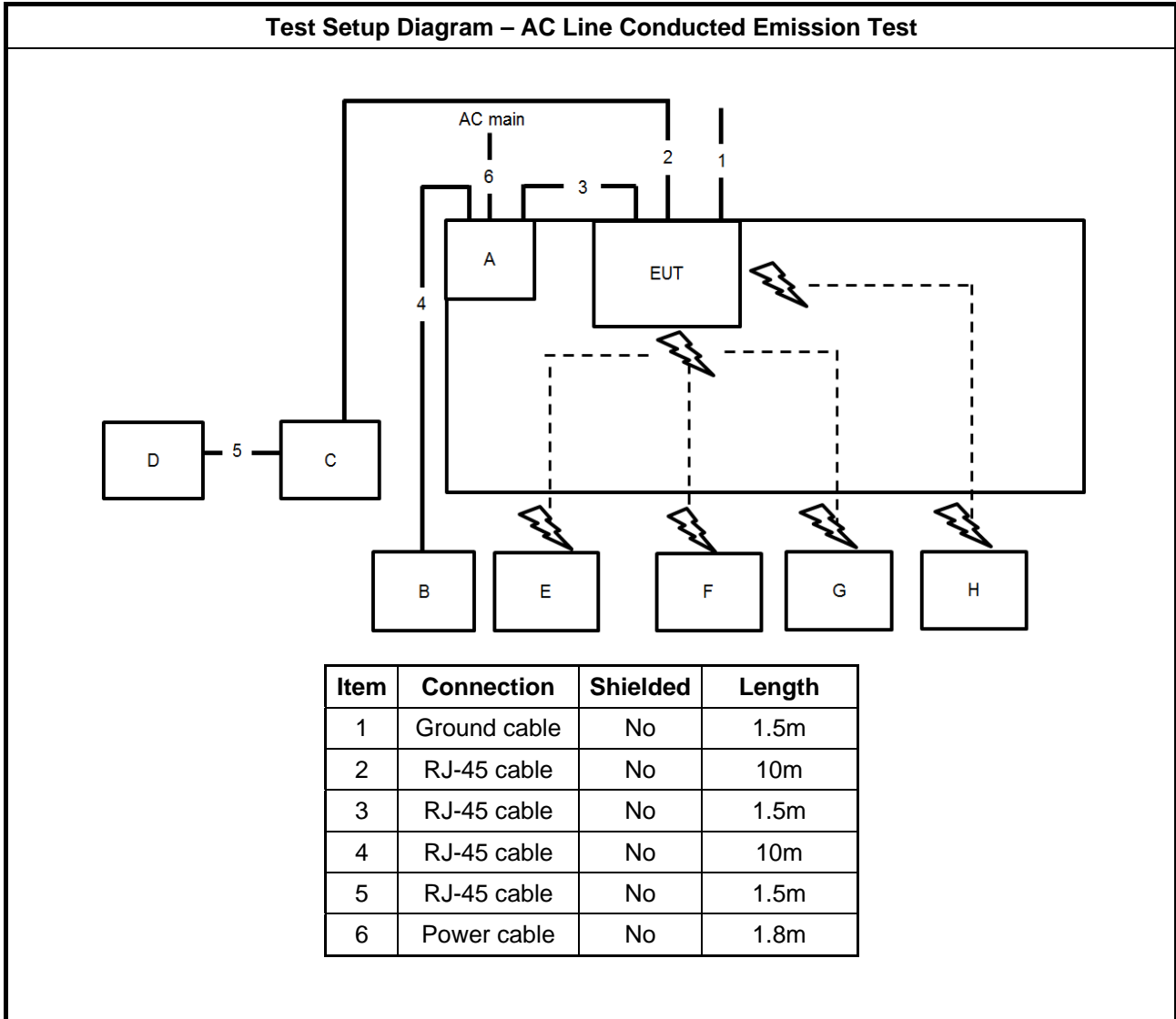
For Radiated (above 1GHz):

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	PoE 2	Buffalo	BIJ-POE-1P:T	N/A
B	Notebook	DELL	E4300	N/A

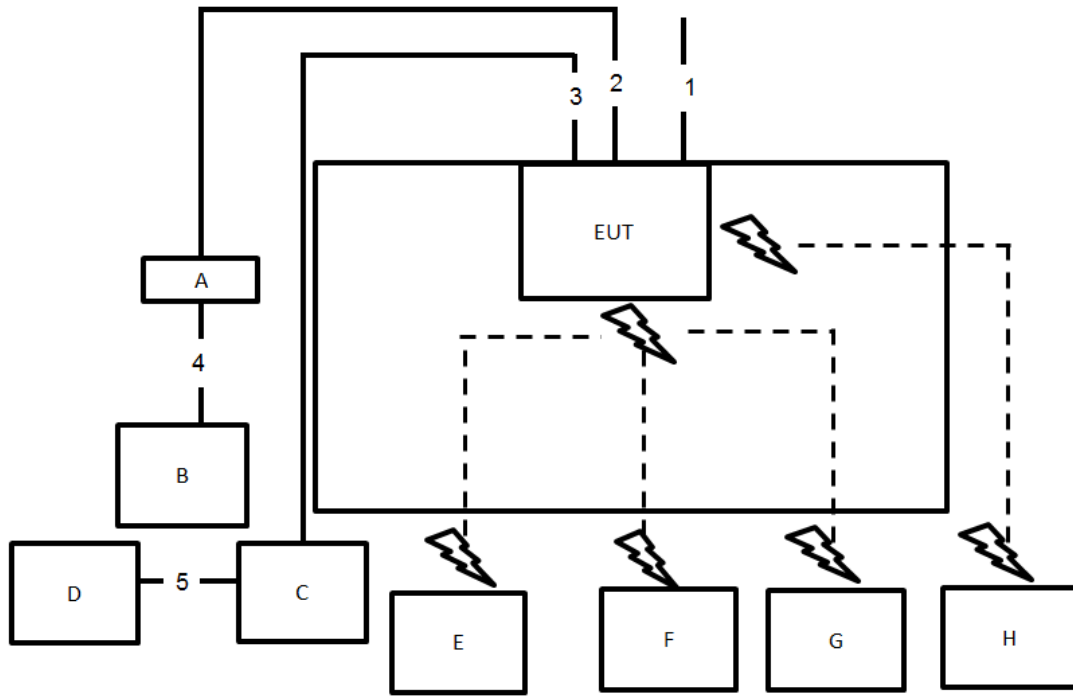
For RF Conducted:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A
B	PoE 2	Buffalo	BIJ-POE-1P:T	N/A

## 2.6 Test Setup Diagram



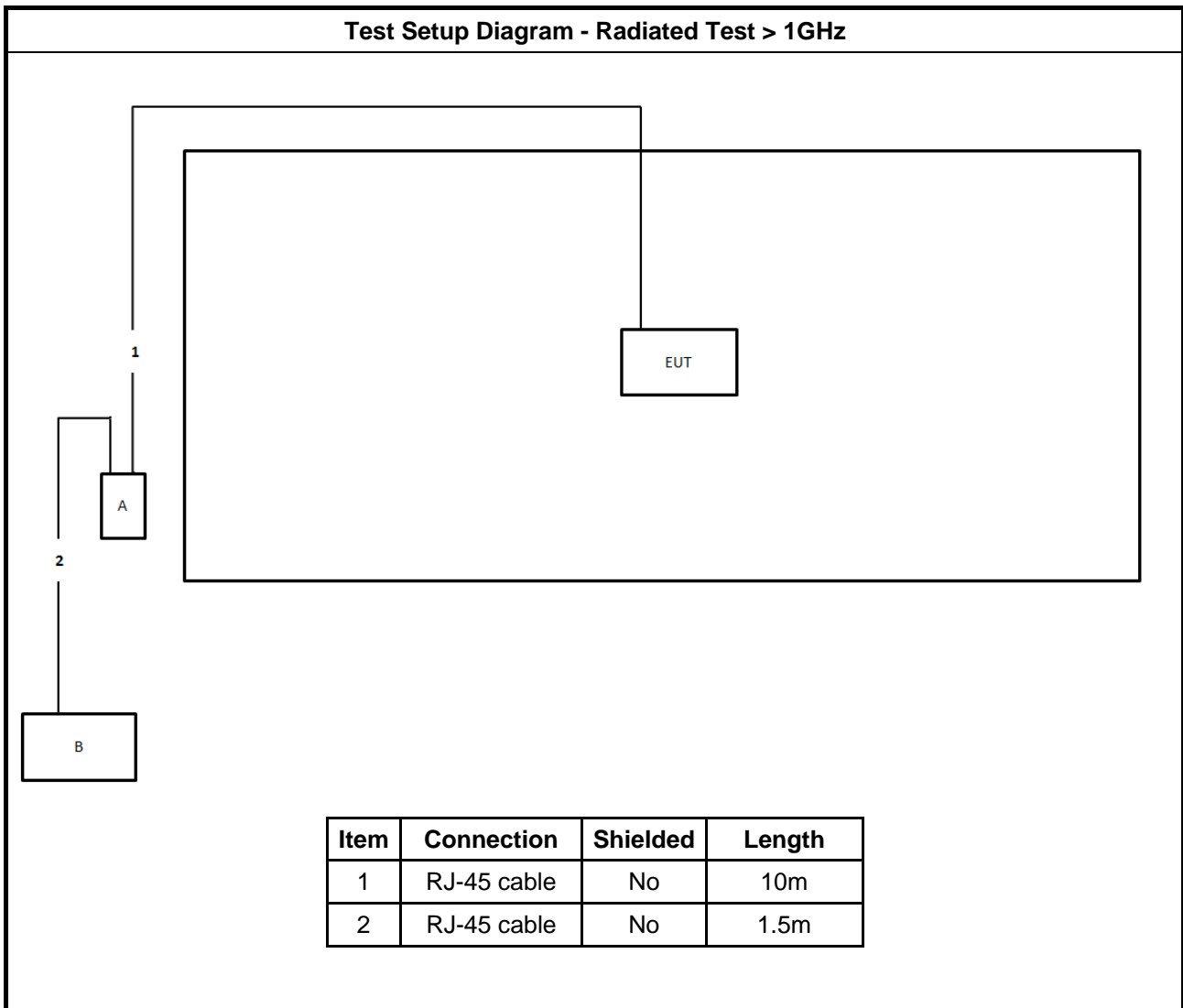
**Test Setup Diagram - Radiated Test < 1GHz**



Item	Connection	Shielded	Length
1	Ground cable	No	1.5m
2	RJ-45 cable	No	10m
3	RJ-45 cable	No	10m
4	RJ-45 cable	No	1.5m
5	RJ-45 cable	No	1.5m



Test Setup Diagram - Radiated Test > 1GHz



Item	Connection	Shielded	Length
1	RJ-45 cable	No	10m
2	RJ-45 cable	No	1.5m



### 3 Transmitter Test Result

#### 3.1 AC Power-line Conducted Emissions

##### 3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

Note 1: \* Decreases with the logarithm of the frequency.

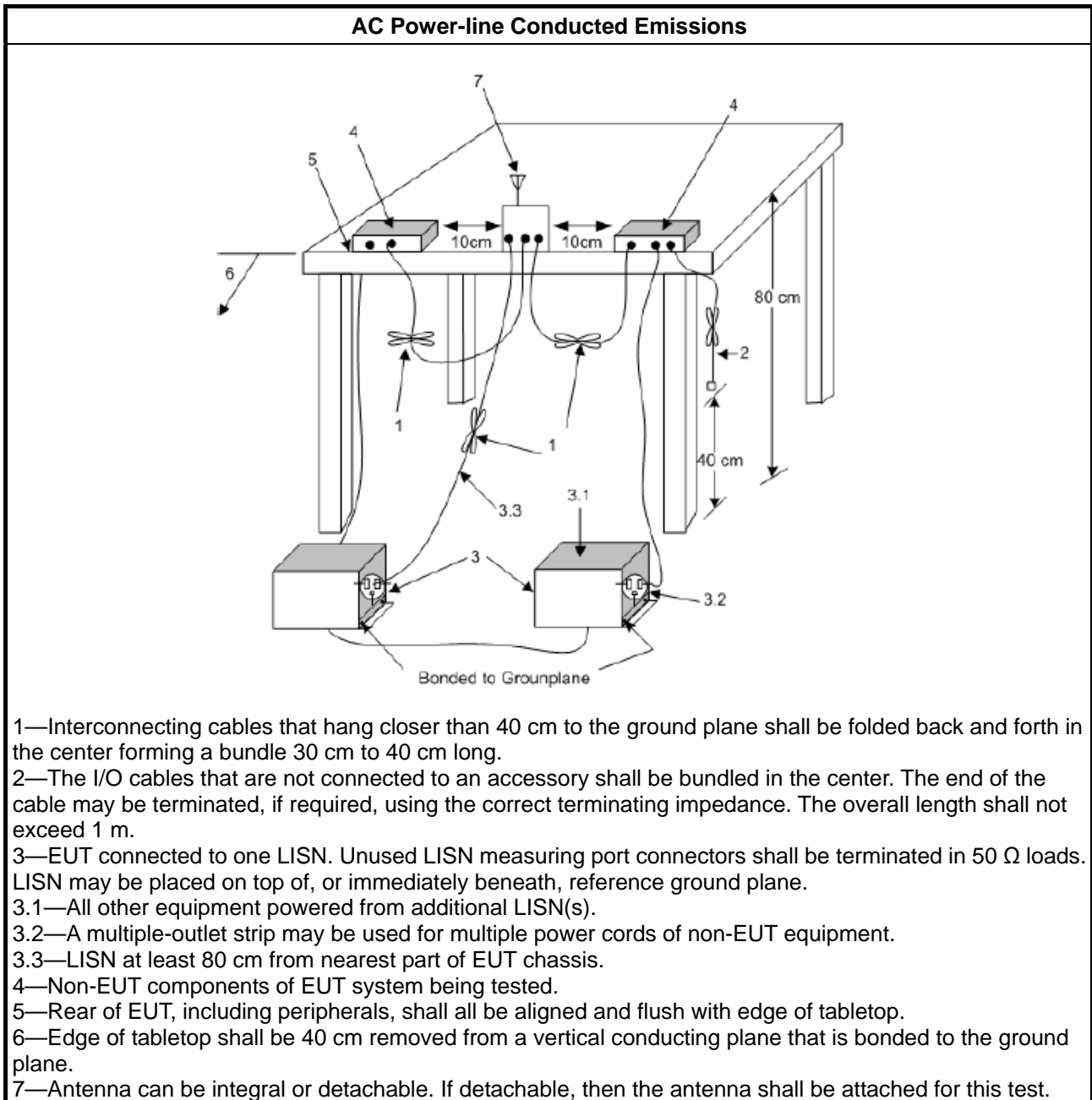
##### 3.1.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

##### 3.1.3 Test Procedures

Test Method
<input checked="" type="checkbox"/> Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

### 3.1.4 Test Setup



### 3.1.5 Measurement Results Calculation

The measured Level is calculated using:

- a. Corrected Reading (dBuV) = LISN Factor + Cable Loss + Read Level = Level
- b. Margin = - Limit + (Read Level + LISN Factor + Cable Loss)

### 3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

### 3.2 DTS Bandwidth

#### 3.2.1 6dB Bandwidth Limit

6dB Bandwidth Limit
<b>Systems using digital modulation techniques:</b>
<ul style="list-style-type: none"> <li>▪ 6 dB bandwidth <math>\geq</math> 500 kHz.</li> </ul>

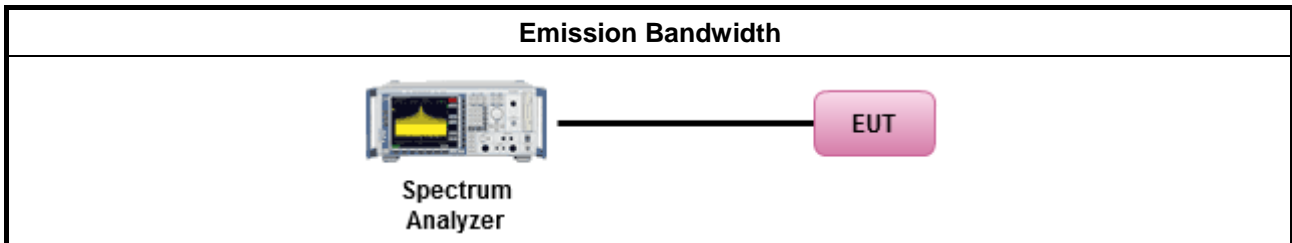
#### 3.2.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

#### 3.2.3 Test Procedures

Test Method
<ul style="list-style-type: none"> <li>▪ For the emission bandwidth shall be measured using one of the options below:</li> </ul>
<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.1 Option 1 for 6 dB bandwidth measurement.
<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.2 Option 2 for 6 dB bandwidth measurement.
<input type="checkbox"/> Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.

#### 3.2.4 Test Setup



#### 3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B





### 3.3 Maximum Conducted Output Power

#### 3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
	<ul style="list-style-type: none"> <li>▪ If <math>G_{TX} \leq 6</math> dBi, then <math>P_{Out} \leq 30</math> dBm (1 W)</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Point-to-multipoint systems (P2M): If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)</math> dBm</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Point-to-point systems (P2P): If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)/3</math> dBm</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Smart antenna system (SAS):</li> </ul>
	<ul style="list-style-type: none"> <li>- Single beam: If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)/3</math> dBm</li> </ul>
	<ul style="list-style-type: none"> <li>- Overlap beam: If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)/3</math> dBm</li> </ul>
	<ul style="list-style-type: none"> <li>- Aggregate power on all beams: If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)/3 + 8</math> dB dBm</li> </ul>
<p><math>P_{Out}</math> = maximum peak conducted output power or maximum conducted output power in dBm,  <math>G_{TX}</math> = the maximum transmitting antenna directional gain in dBi.</p>	

#### 3.3.2 Measuring Instruments

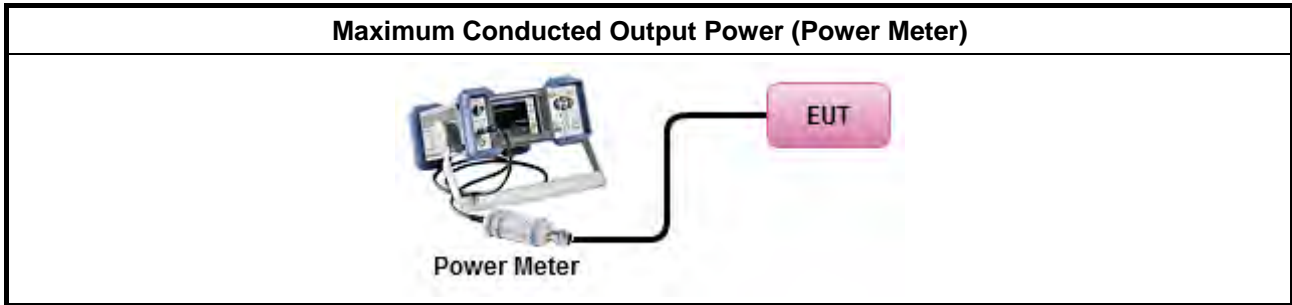
Refer a test equipment and calibration data table in this test report.



3.3.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> <li>▪ Maximum Peak Conducted Output Power</li> </ul>	
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.1.1 & C63.10 clause 11.9.1.1 (RBW ≥ EBW method).
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.1.3 & C63.10 clause 11.9.1.3 (peak power meter).
<ul style="list-style-type: none"> <li>▪ Maximum Conducted Output Power</li> </ul>	
[duty cycle ≥ 98% or external video / power trigger]	
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.2 Method AVGSA-1.
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.3 Method AVGSA-1A. (alternative)
duty cycle < 98% and average over on/off periods with duty factor	
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.4 Method AVGSA-2.
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.5 Method AVGSA-2A (alternative)
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.6 Method AVGSA-3
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.7 Method AVGSA-3A (alternative)
Measurement using a power meter (PM)	
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.1 Method AVGPM (using an RF average power meter).
	<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.2 Method AVGPM-G (using an gate RF average power meter).
<ul style="list-style-type: none"> <li>▪ For conducted measurement.</li> </ul>	
	<ul style="list-style-type: none"> <li>▪ If the EUT supports multiple transmit chains using options given below: Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.</li> </ul>
	<ul style="list-style-type: none"> <li>▪ If multiple transmit chains, EIRP calculation could be following as methods:  <math display="block">P_{total} = P_1 + P_2 + \dots + P_n</math>                     (calculated in linear unit [mW] and transfer to log unit [dBm])  <math display="block">EIRP_{total} = P_{total} + DG</math> </li> </ul>

### 3.3.4 Test Setup



### 3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C



### 3.4 Power Spectral Density

#### 3.4.1 Power Spectral Density Limit

Power Spectral Density Limit
<ul style="list-style-type: none"> <li>Power Spectral Density (PSD) <math>\leq</math> 8 dBm/3kHz</li> </ul>

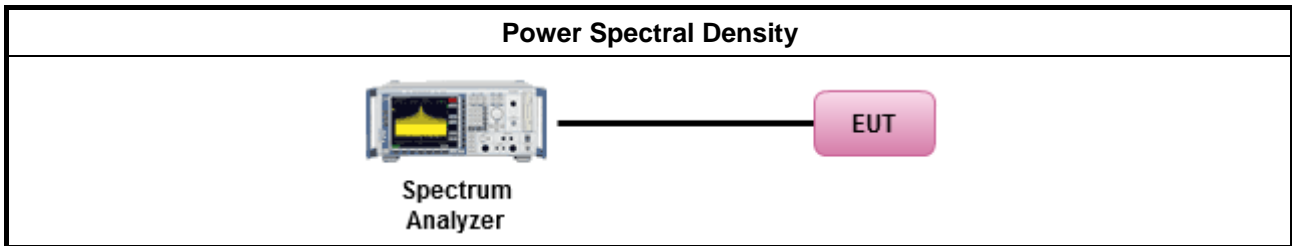
#### 3.4.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

#### 3.4.3 Test Procedures

Test Method			
<ul style="list-style-type: none"> <li>Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option).</li> </ul>			
<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10 Method Max. PSD.			
<ul style="list-style-type: none"> <li>For conducted measurement.             <ul style="list-style-type: none"> <li>If The EUT supports multiple transmit chains using options given below:                 <table border="1"> <tbody> <tr> <td> <input type="checkbox"/> Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.                 </td> </tr> <tr> <td> <input type="checkbox"/> Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,                 </td> </tr> <tr> <td> <input type="checkbox"/> Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.                 </td> </tr> </tbody> </table> </li> </ul> </li> </ul>	<input type="checkbox"/> Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.	<input type="checkbox"/> Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,	<input type="checkbox"/> Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.
<input type="checkbox"/> Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.			
<input type="checkbox"/> Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,			
<input type="checkbox"/> Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.			

### 3.4.4 Test Setup



### 3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

### 3.5 Emissions in Non-restricted Frequency Bands

#### 3.5.1 Emissions in Non-restricted Frequency Bands Limit

Un-restricted Band Emissions Limit	
RF output power procedure	Limit (dBc)
Peak output power procedure	20
Average output power procedure	30

Note 1: If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak PSD level.

Note 2: If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured in-band average PSD level.

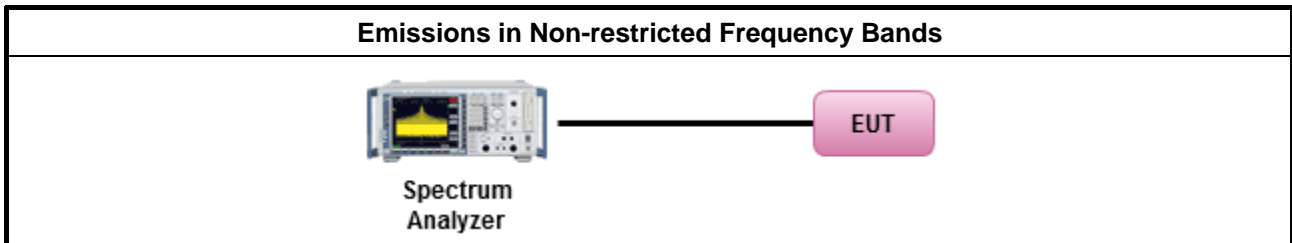
#### 3.5.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

#### 3.5.3 Test Procedures

Test Method
<ul style="list-style-type: none"> <li>Refer as FCC KDB 558074, clause 8.5 for unwanted emissions into non-restricted bands.</li> </ul>

#### 3.5.4 Test Setup



#### 3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E



### 3.6 Emissions in Restricted Frequency Bands

#### 3.6.1 Emissions in Restricted Frequency Bands Limit

Restricted Band Emissions Limit			
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.

Note 3: Using the distance of 1m during the test for above 18 GHz, and the test value to correct for the distance factor at 3m.

#### 3.6.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

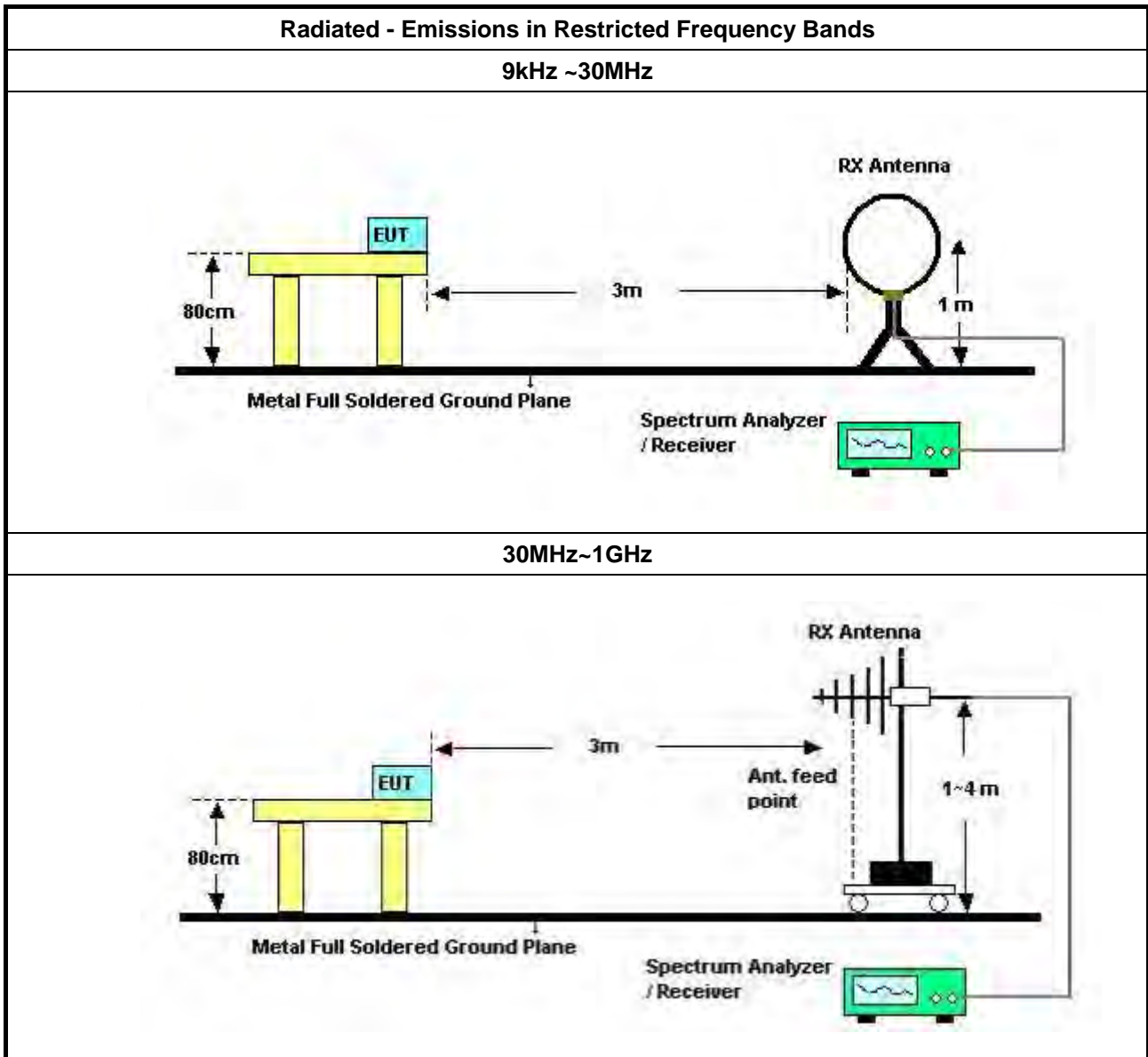


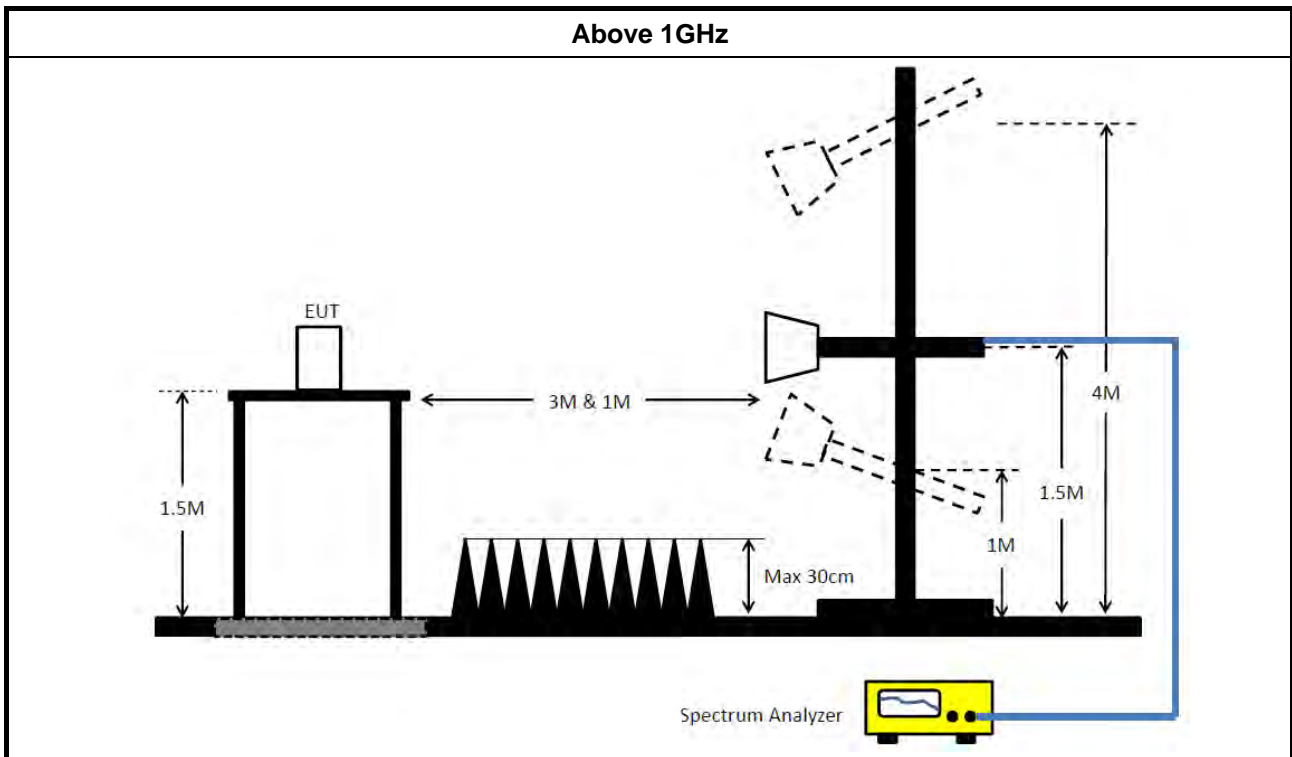
3.6.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> <li>▪ The average emission levels shall be measured in [duty cycle <math>\geq</math> 98 or duty factor].</li> </ul>	
<ul style="list-style-type: none"> <li>▪ Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.</li> </ul>	
<ul style="list-style-type: none"> <li>▪ For the transmitter unwanted emissions shall be measured using following options below:</li> </ul>	
	<ul style="list-style-type: none"> <li>▪ Refer as FCC KDB 558074, clause 8.6 for unwanted emissions into restricted bands.</li> </ul>
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.1(trace averaging for duty cycle $\geq$ 98%).
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.2(trace averaging + duty factor).
	<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.3(Reduced VBW $\geq$ 1/T).
	<input type="checkbox"/> Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW $\geq$ 1/T, where T is pulse time.
	<input type="checkbox"/> Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.
	<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.4 measurement procedure peak limit.
<ul style="list-style-type: none"> <li>▪ For the transmitter band-edge emissions shall be measured using following options below:</li> </ul>	
	<ul style="list-style-type: none"> <li>▪ Refer as FCC KDB 558074 clause 8.7 &amp; C63.10 clause 11.13.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below.</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Refer as FCC KDB 558074, clause 8.7 (ANSI C63.10, clause 6.10.6) for marker-delta method for band-edge measurements.</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Refer as FCC KDB 558074, clause 8.7 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz).</li> </ul>
	<ul style="list-style-type: none"> <li>▪ For conducted unwanted emissions into restricted bands (absolute emission limits). Devices with multiple transmit chains using options given below:                (1) Measure and sum the spectra across the outputs or                (2) Measure and add 10 log(N) dB             </li> </ul>
	<ul style="list-style-type: none"> <li>▪ For FCC KDB 662911 The methodology described here may overestimate array gain, thereby resulting in apparent failures to satisfy the out-of-band limits even if the device is actually compliant. In such cases, compliance may be demonstrated by performing radiated tests around the frequencies at which the apparent failures occurred.</li> </ul>



3.6.4 Test Setup





### 3.6.5 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor (if applicable) = Level.

### 3.6.6 Emissions in Restricted Frequency Bands (Below 30MHz)

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to KDB414788 Radiated Test Site, and the result came out very similar.

All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.

The radiated emissions were investigated from 9 kHz or the lowest frequency generated within the device, up to the 10 harmonic or 40 GHz, whichever is appropriate.

### 3.6.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F



## 4 Test Equipment and Calibration Data

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.45GHz	Feb. 26, 2020	Feb. 25, 2021	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Dec. 25, 2019	Dec. 24, 2020	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Feb. 25, 2020	Feb. 24, 2021	Conduction (CO01-CB)
Pulse Limiter	Rohde&Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Jan. 31, 2020	Jan. 30, 2021	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	May 20, 2020	May 19, 2021	Conduction (CO01-CB)
Software	Audix	E3	6.120210n	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Apr. 13, 2020	Apr. 12, 2021	Radiation (10CH01-CB)
10m Semi Anechoic Chamber	TDK	NSA	10CH01-CB	30MHz~1GHz 10m,3m	Jan. 30, 2020	Jan. 29, 2021	Radiation (10CH01-CB)
Pre-Amplifier	Agilent	8447D	2944A10783	9kHz ~ 1.3GHz	Mar. 19, 2020	Mar. 18, 2021	Radiation (10CH01-CB)
Pre-Amplifier	Agilent	8447D	2944A10784	9kHz ~ 1.3GHz	Mar. 11, 2020	Mar. 10, 2021	Radiation (10CH01-CB)
Low Cable	Woken	SUCOFLEX 104	low cable-01	25MHz ~ 1GHz	Oct. 21, 2019	Oct. 20, 2020	Radiation (10CH01-CB)
High Cable	Woken	SUCOFLEX 104	low cable-02	25MHz ~ 1GHz	Oct. 21, 2019	Oct. 20, 2020	Radiation (10CH01-CB)
Biconical Antenna	Schwarzbeck	VHBB 9124	324	30MHz ~ 200MHz	Apr. 20, 2020	Apr. 19, 2021	Radiation (10CH01-CB)
Log Antenna	Schwarzbeck	VUSLP 9111	247	200MHz ~ 1GHz	May 25, 2020	May 24, 2021	Radiation (10CH01-CB)
EMI Test Receiver	Rohde&Schwarz	ESCI	100186	9kHz ~ 3GHz	Jul. 08, 2020	Jul. 07, 2021	Radiation (10CH01-CB)
Spectrum Analyzer	Rohde&Schwarz	FSV30	101026	9kHz ~ 30GHz	Mar. 03, 2020	Mar. 02, 2021	Radiation (10CH01-CB)
Software	Audix	E3	6.120210m	-	N.C.R.	N.C.R.	Radiation (10CH01-CB)
Horn Antenna	ETS-LINDGREN	3115	00075790	750MHz ~ 18GHz	Nov. 04, 2019	Nov. 03, 2020	Radiation (03CH01-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jun. 11, 2020	Jun. 10, 2021	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Jan. 08, 2020	Jan. 07, 2021	Radiation (03CH01-CB)
Amplifier	-	-	TF-130N-R1	18GHz ~ 40GHz	Jun. 19, 2020	Jun. 18, 2021	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Apr. 16, 2020	Apr. 15, 2021	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16	1 GHz ~ 18 GHz	Oct. 07, 2019	Oct. 06, 2020	Radiation (03CH01-CB)



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-16+17	1 GHz ~ 18 GHz	Oct. 07, 2019	Oct. 06, 2020	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 24, 2019	Jul. 23, 2020	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 24, 2019	Jul. 23, 2020	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH01-CB)
Horn Antenna	ETS • Lindgren	3115	6821	750MHz~18GHz	Jan. 20, 2020	Jan. 19, 2021	Radiation (03CH03-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jun. 11, 2020	Jun. 10, 2021	Radiation (03CH03-CB)
Pre-Amplifier	EMCI	EMC12630SE	980383	1GHz ~ 26.5GHz	Aug. 02, 2019	Aug. 01, 2020	Radiation (03CH03-CB)
Amplifier	-	-	TF-130N-R1	18GHz ~ 40GHz	Jun. 19, 2020	Jun. 18, 2021	Radiation (03CH03-CB)
Spectrum Analyzer	R&S	FSP40	100019	9kHz ~ 40GHz	Jun. 09, 2020	Jun. 08, 2021	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-20+27(spare)	1GHz ~ 18GHz	Jul. 03, 2020	Jun. 02, 2021	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-27(spare)	1GHz ~ 18GHz	Jul. 03, 2020	Jun. 02, 2021	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 24, 2019	Jul. 23, 2020	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 24, 2019	Jul. 23, 2020	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH03-CB)
Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1292	1GHz~18GHz	Jul. 17, 2019	Jul. 16, 2020	Radiation (03CH06-CB)
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA 9120D-1291	1GHz~18GHz	Oct. 05, 2019	Oct. 04, 2020	Radiation (03CH06-CB)
Horn Antenna	COM-POWER	AH-118	071028	1GHz ~ 18GHz	Jun. 09, 2020	Jun. 08, 2021	Radiation (03CH06-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jun. 11, 2020	Jun. 10, 2021	Radiation (03CH06-CB)
Pre-Amplifier	Agilent	83017A	MY53270064	0.5GHz ~ 26.5GHz	May 07, 2020	May 06, 2021	Radiation (03CH06-CB)
Amplifier	-	-	TF-130N-R1	18GHz ~ 40GHz	Jun. 19, 2020	Jun. 18, 2021	Radiation (03CH06-CB)



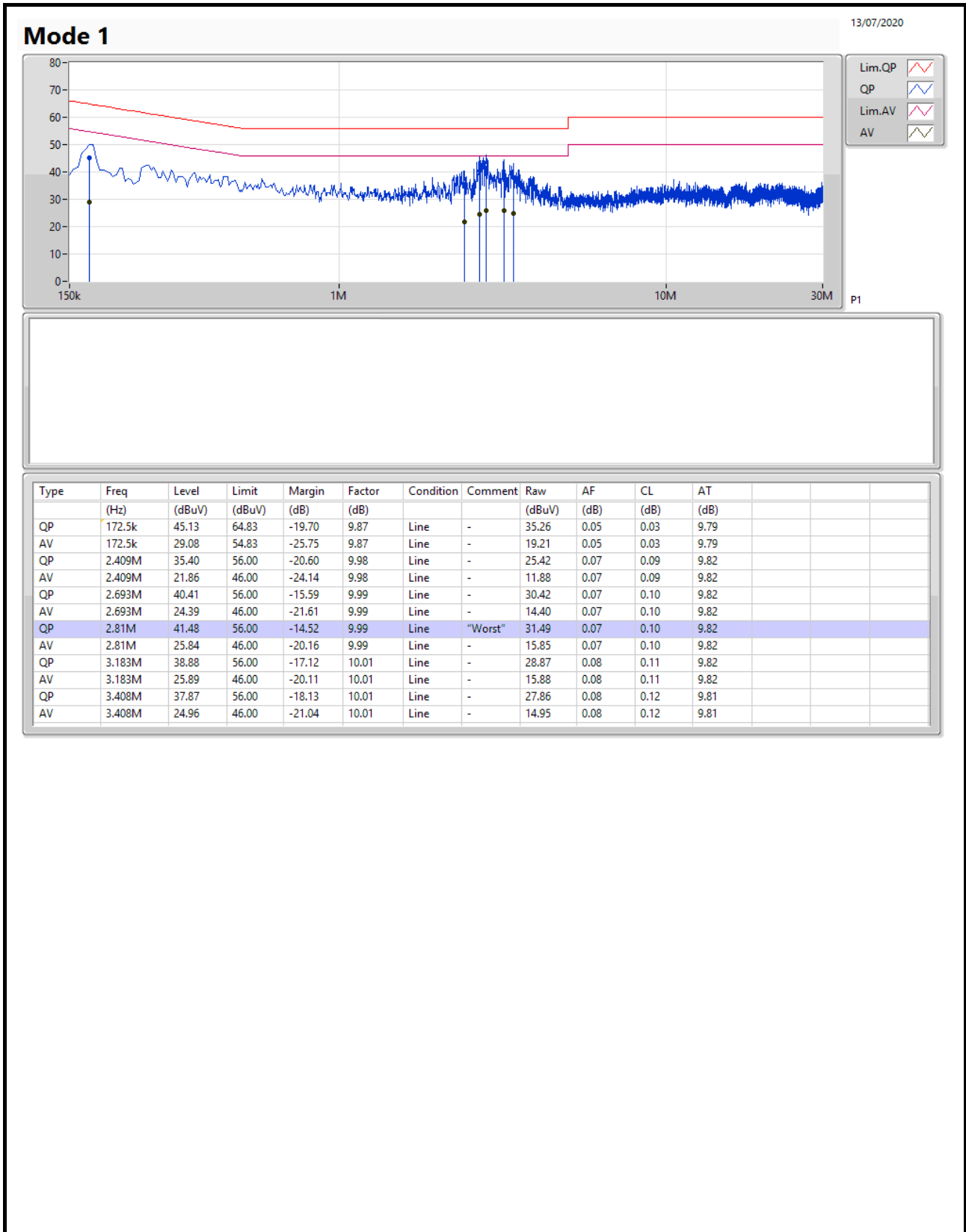
Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Spectrum analyzer	R&S	FSP40	100080	9kHz~40GHz	Oct. 21, 2019	Oct. 20, 2020	Radiation (03CH06-CB)
RF Cable-high	HUBER+SUHNER	RG402	High Cable-05	1GHz~18GHz	Oct. 07, 2019	Oct. 06, 2020	Radiation (03CH06-CB)
RF Cable-high	HUBER+SUHNER	RG402	High Cable-05+24	1GHz~18GHz	Oct. 07, 2019	Oct. 06, 2020	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 24, 2019	Jul. 23, 2020	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 24, 2019	Jul. 23, 2020	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH06-CB)
Spectrum analyzer	R&S	FSV40	101028	9kHz~40GHz	Nov. 01, 2019	Oct. 31, 2020	Conducted (TH03-CB)
Power Sensor	Anritsu	MA2411B	1726195	300MHz~40GHz	Aug. 13, 2019	Aug. 12, 2020	Conducted (TH03-CB)
Power Meter	Anritsu	ML2495A	1035008	300MHz~40GHz	Aug. 13, 2019	Aug. 12, 2020	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-11	1 GHz – 26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-12	1 GHz – 26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-13	1 GHz – 26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-14	1 GHz – 26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-15	1 GHz – 26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH03-CB)

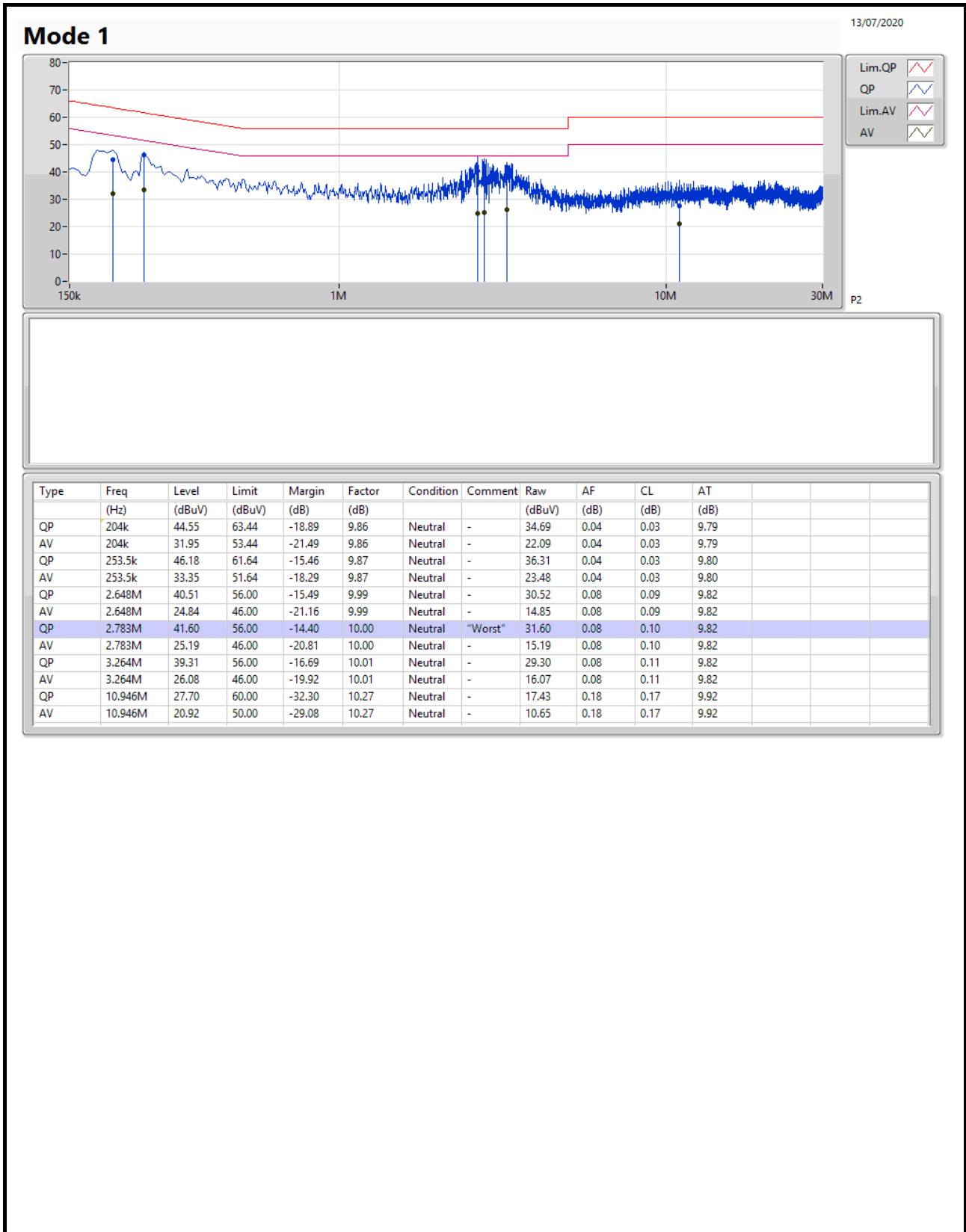
Note: Calibration Interval of instruments listed above is one year.  
N.C.R. means Non-Calibration required.



**Summary**

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition
Mode 1	Pass	QP	2.783M	41.60	56.00	-14.40	10.00	Neutral









**For EUT 1 / Radio 2\_Non-Beamforming Mode  
Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_4TX	8.05M	15.617M	15M6G1D	6.525M	11.594M
802.11g_Nss1,(6Mbps)_4TX	16.35M	22.364M	22M4D1D	15.925M	16.642M
802.11ax HEW20_Nss1,(MCS0)_4TX	18.925M	19.915M	19M9D1D	18.65M	18.966M
802.11ax HEW40_Nss1,(MCS0)_4TX	37.55M	37.681M	37M7D1D	35.55M	37.281M

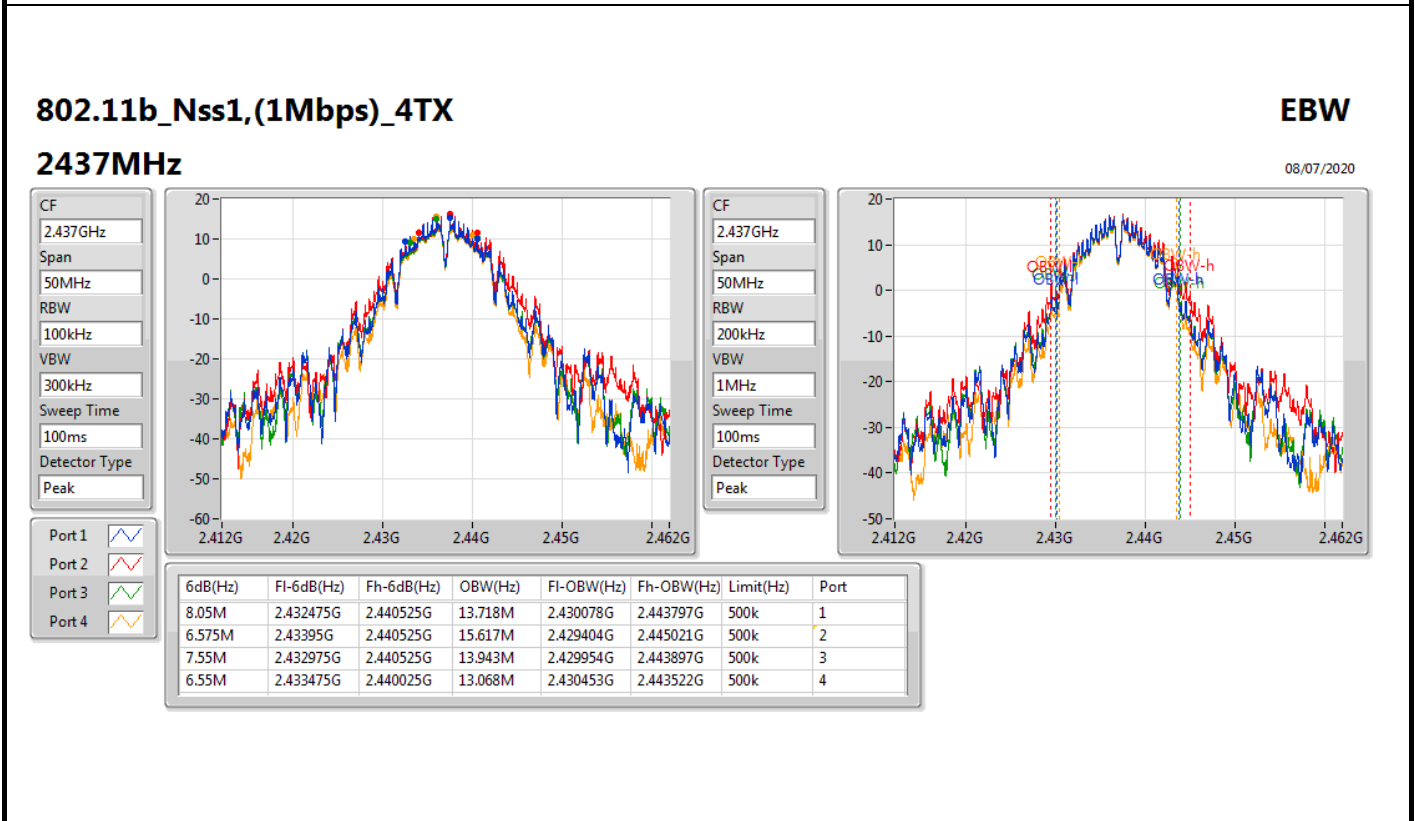
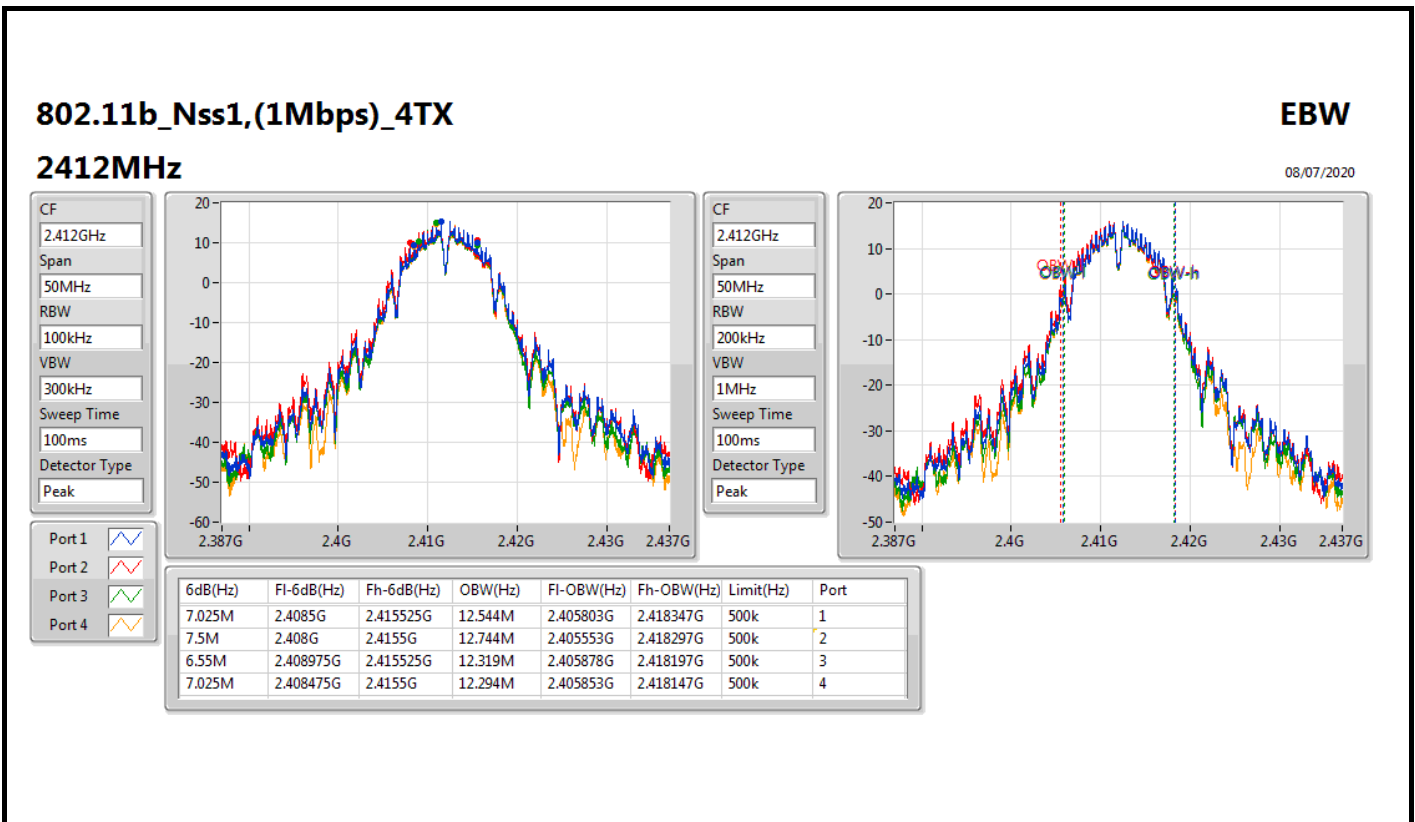
**Max-N dB** = Maximum 6dB down bandwidth; **Max-OBW** = Maximum 99% occupied bandwidth;  
**Min-N dB** = Minimum 6dB down bandwidth; **Min-OBW** = Minimum 99% occupied bandwidth;

**For EUT 1 / Radio 2\_Non-Beamforming Mode  
Result**

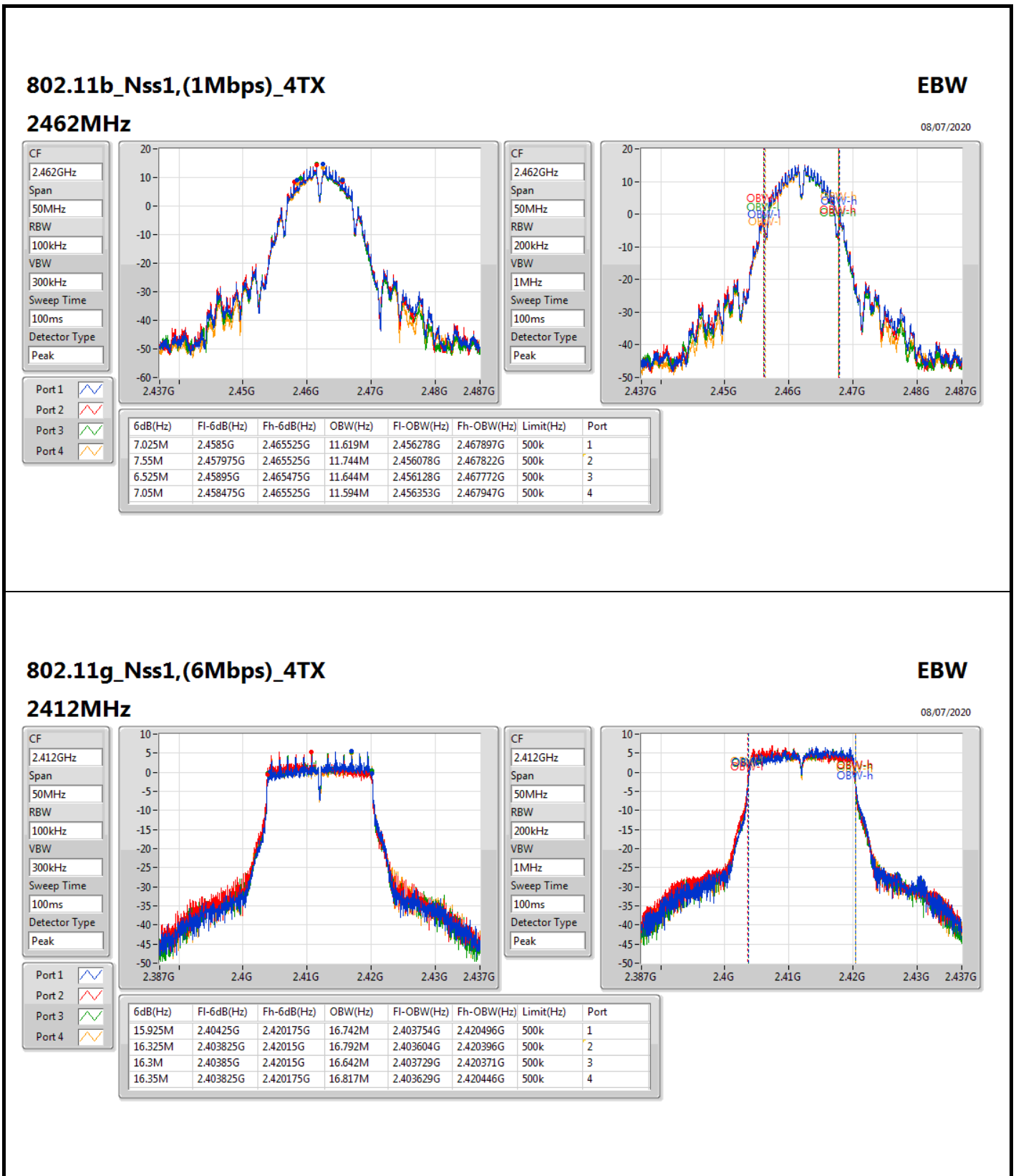
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11b_Nss1,(1Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	7.025M	12.544M	7.5M	12.744M	6.55M	12.319M	7.025M	12.294M
2437MHz	Pass	500k	8.05M	13.718M	6.575M	15.617M	7.55M	13.943M	6.55M	13.068M
2462MHz	Pass	500k	7.025M	11.619M	7.55M	11.744M	6.525M	11.644M	7.05M	11.594M
802.11g_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	15.925M	16.742M	16.325M	16.792M	16.3M	16.642M	16.35M	16.817M
2437MHz	Pass	500k	16.325M	22.364M	16.325M	21.814M	16.3M	21.314M	16.35M	21.939M
2462MHz	Pass	500k	16.325M	16.767M	16.325M	16.742M	16.3M	16.667M	16.325M	16.767M
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	18.675M	18.966M	18.925M	19.04M	18.775M	19.065M	18.85M	19.09M
2437MHz	Pass	500k	18.675M	19.715M	18.725M	19.69M	18.65M	19.665M	18.85M	19.915M
2462MHz	Pass	500k	18.825M	18.991M	18.875M	19.015M	18.9M	19.065M	18.85M	19.065M
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	500k	36.05M	37.281M	37.4M	37.581M	35.55M	37.431M	37.45M	37.481M
2437MHz	Pass	500k	36.75M	37.581M	37M	37.681M	37.4M	37.681M	36.7M	37.431M
2452MHz	Pass	500k	37.55M	37.631M	35.95M	37.431M	36.6M	37.581M	36.8M	37.531M

**Port X-N dB = Port X 6dB down bandwidth; Port X-OBW = Port X 99% occupied bandwidth;**

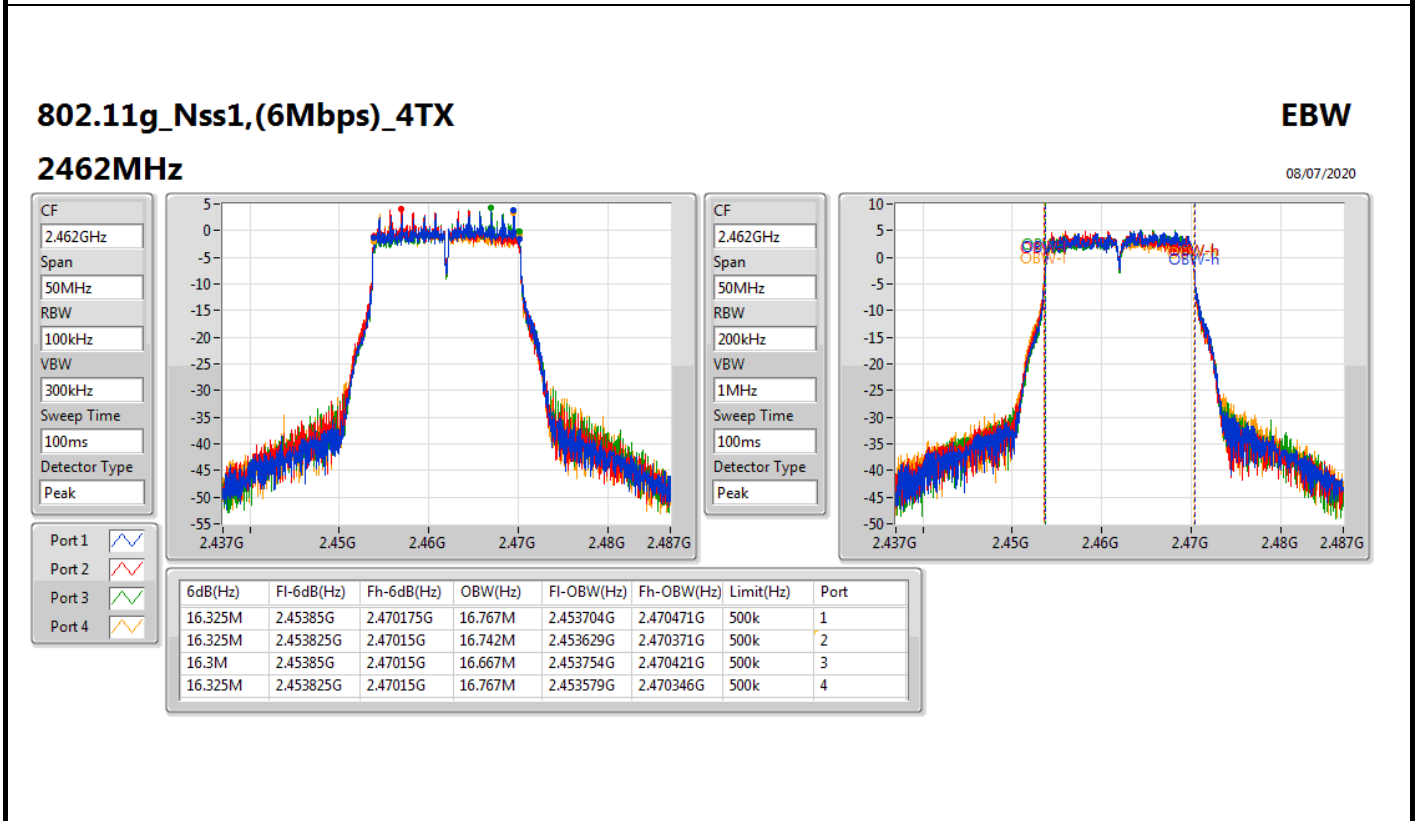
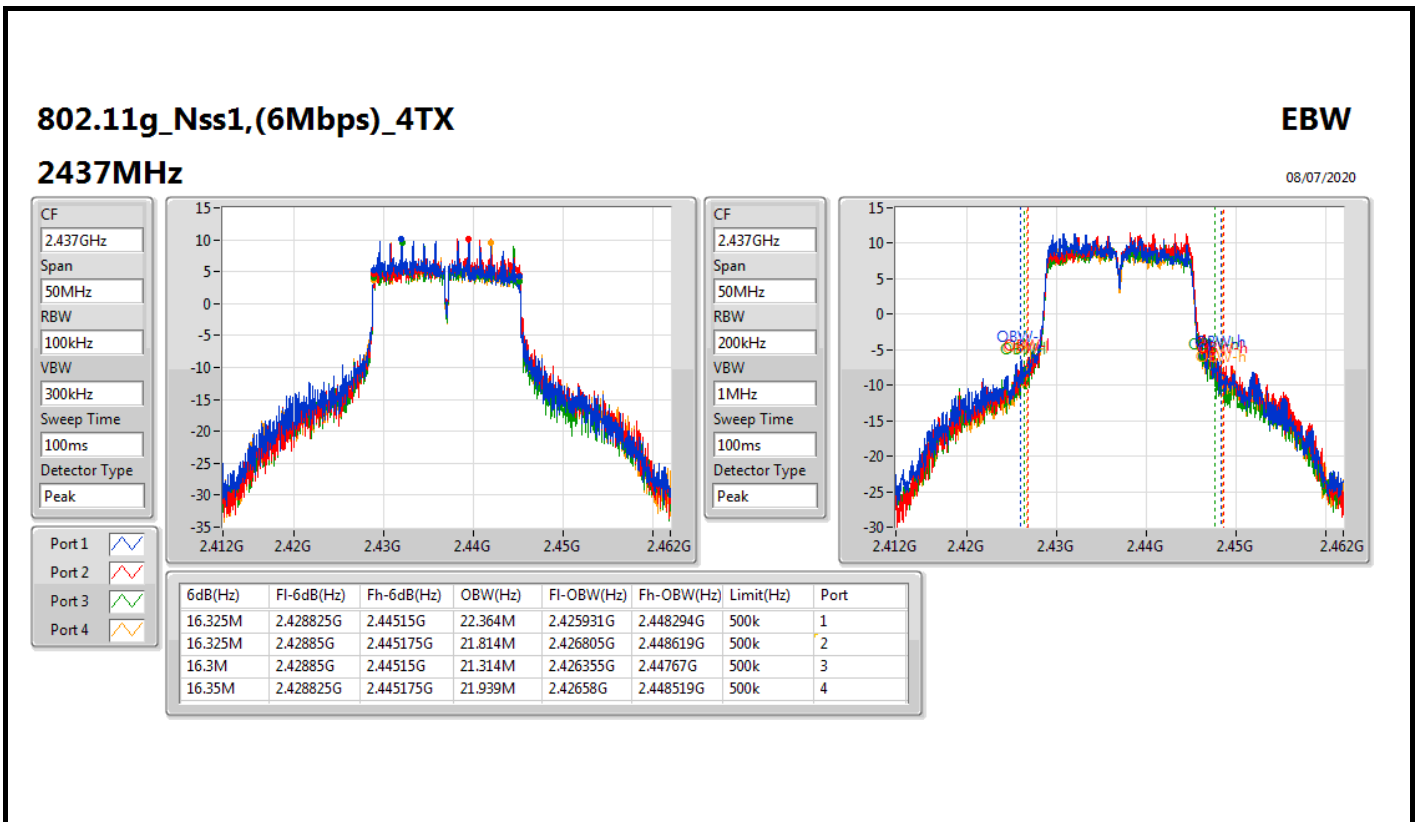
For EUT 1 / Radio 2\_Non-Beamforming Mode



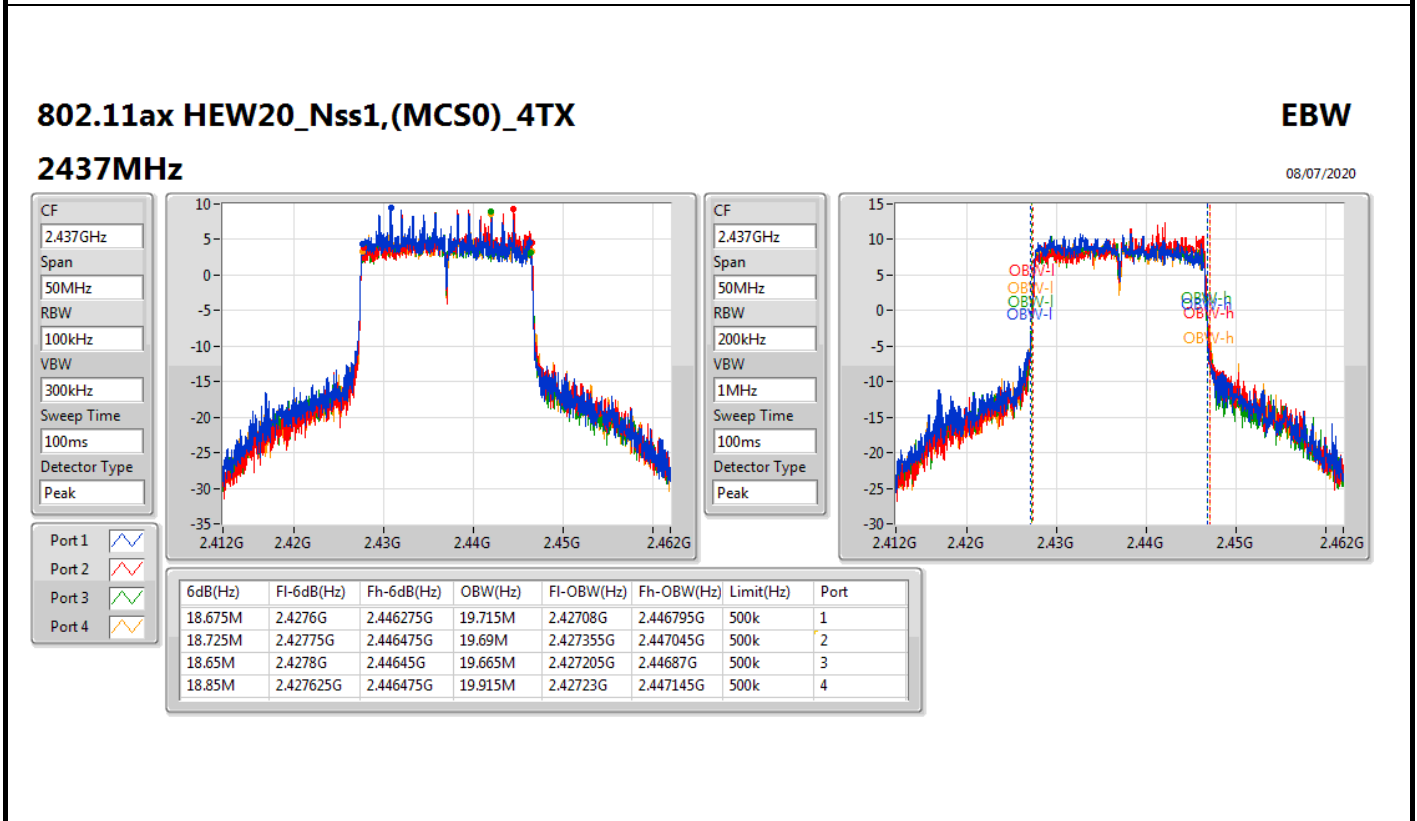
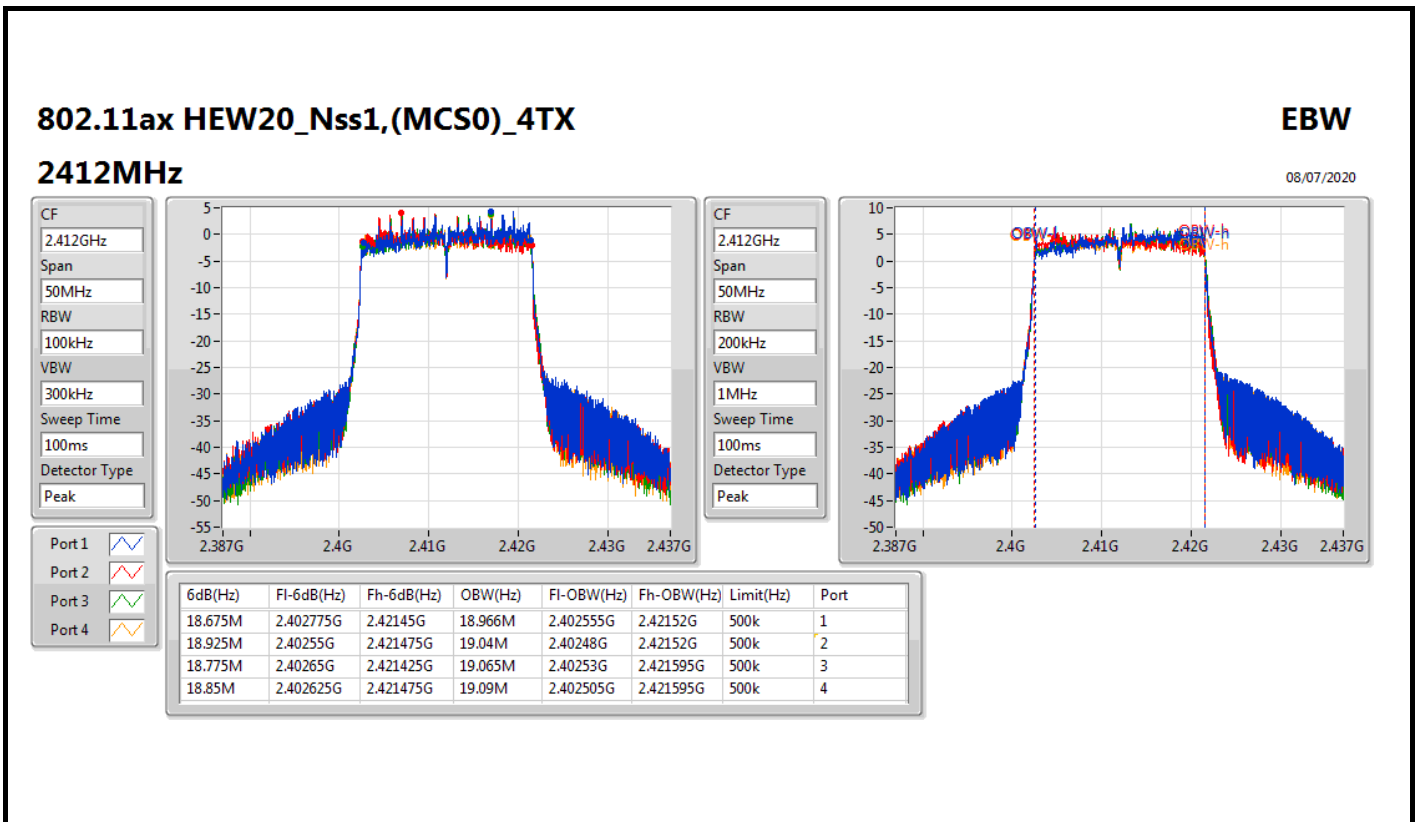
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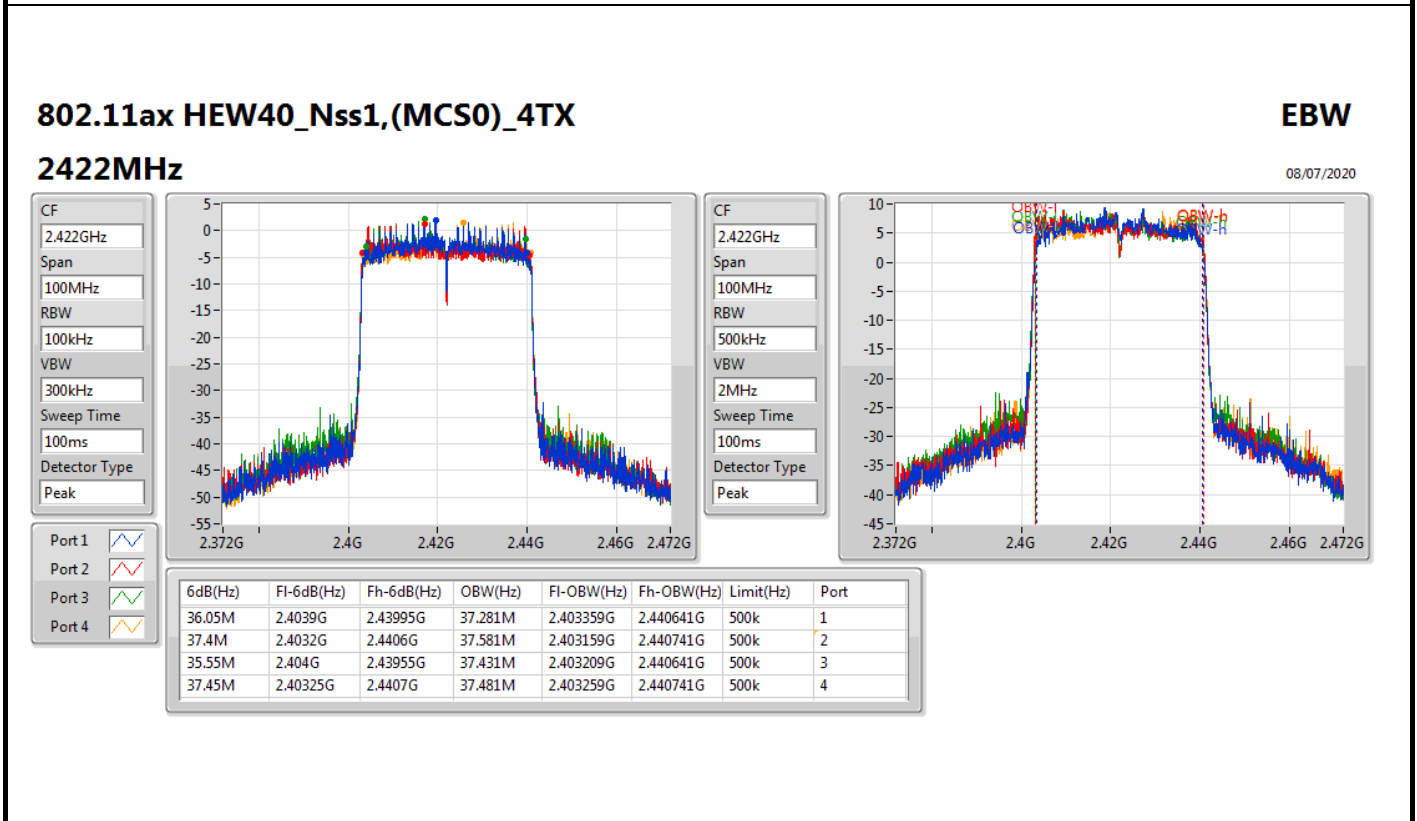
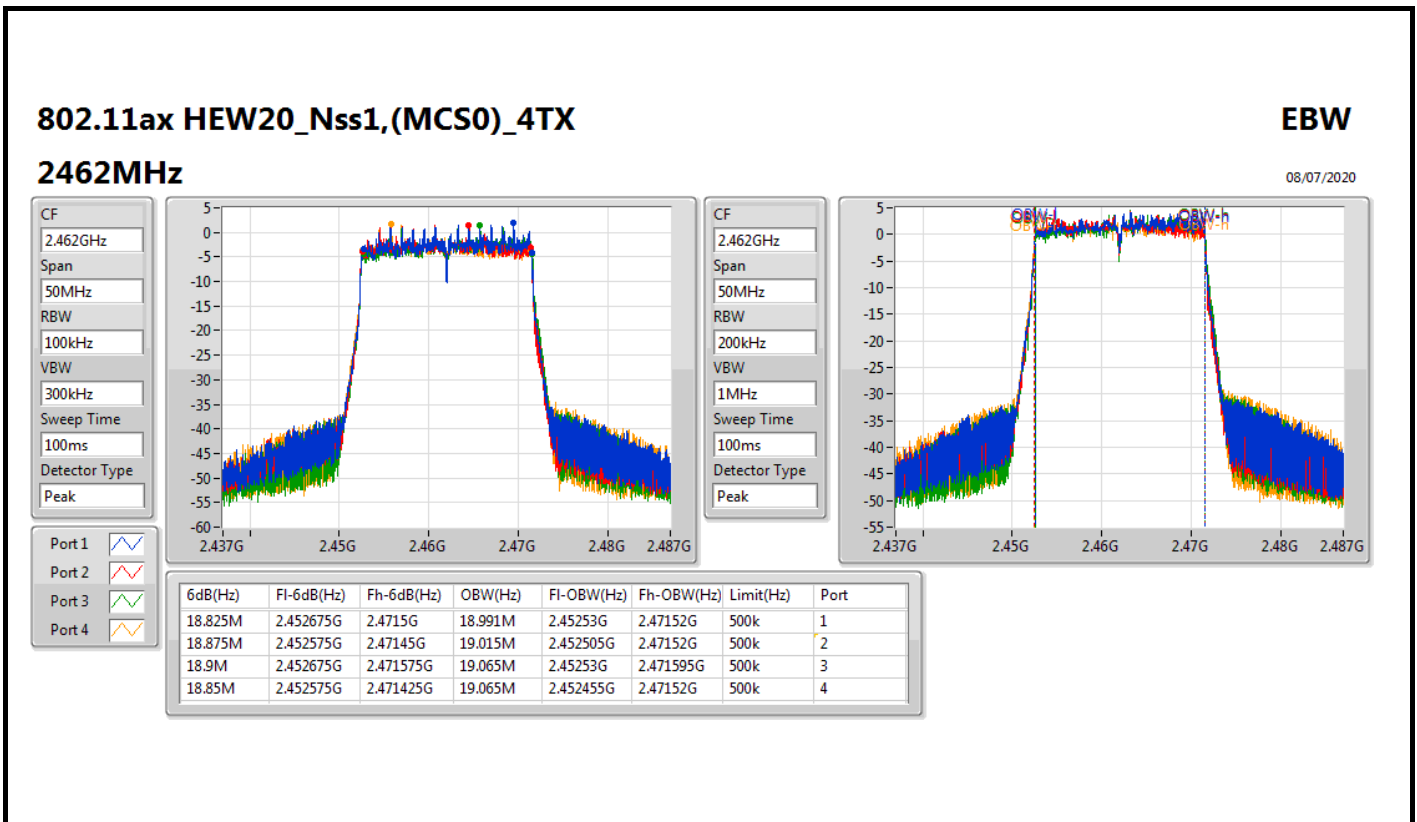
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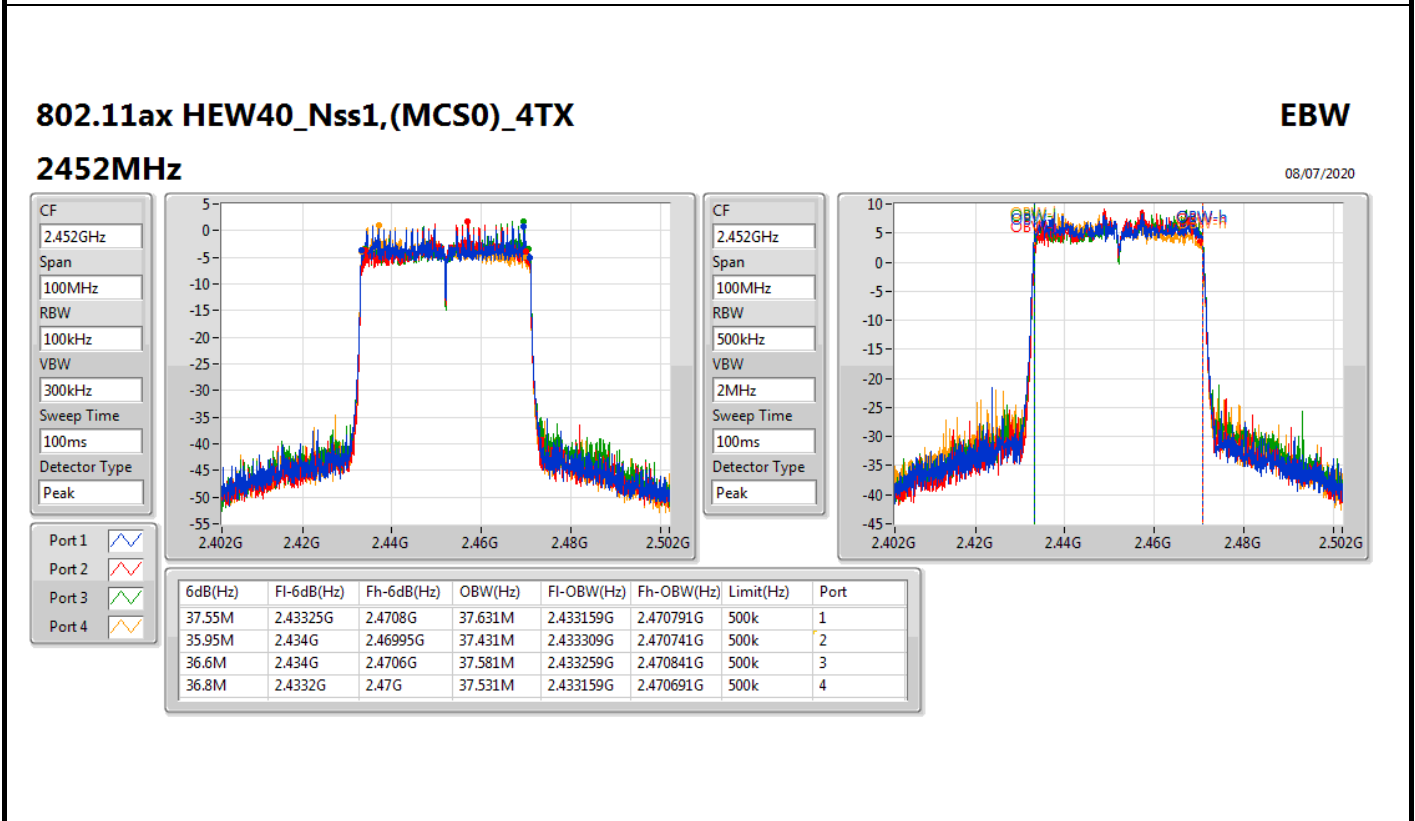
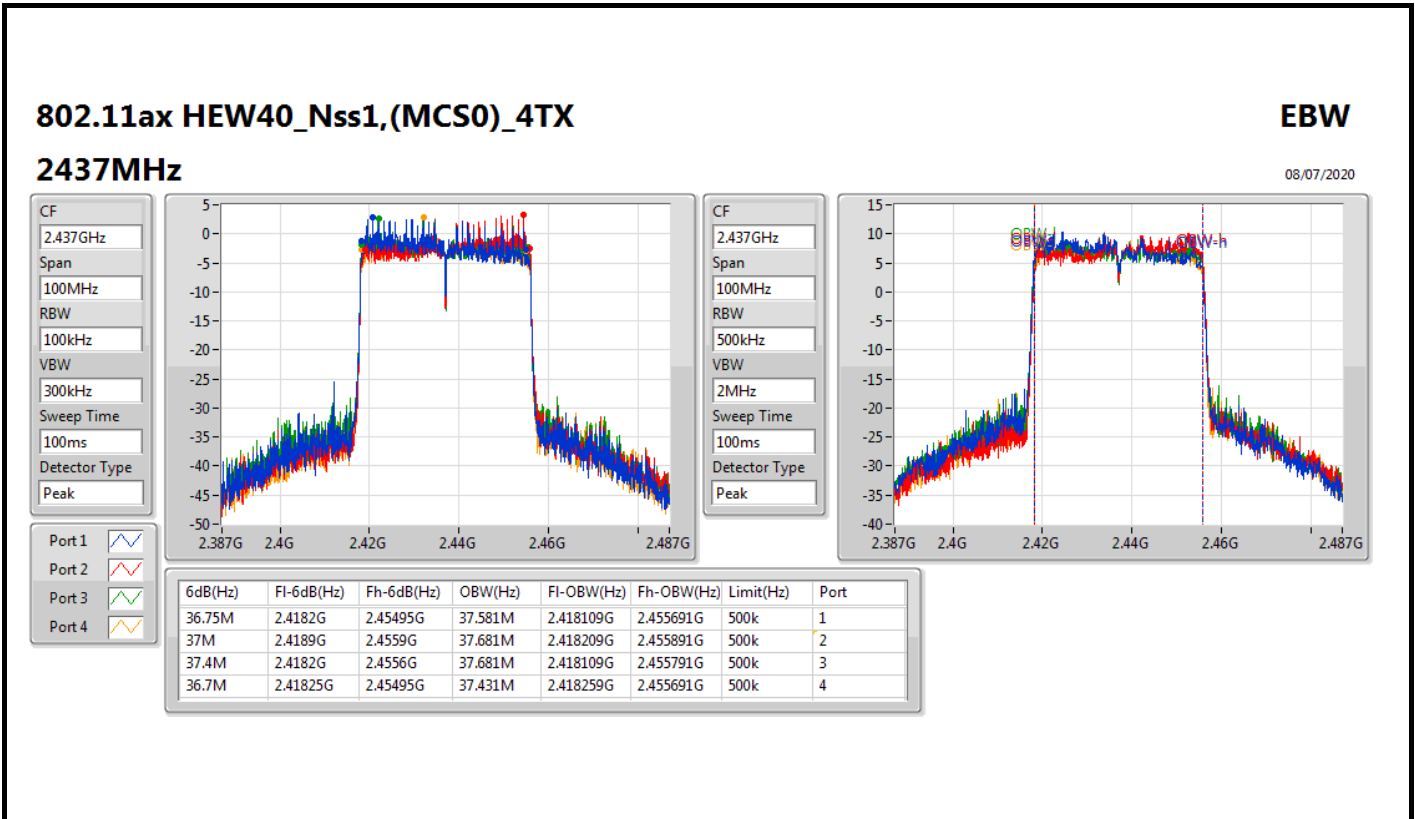
For EUT 1 / Radio 2\_Non-Beamforming Mode



For EUT 1 / Radio 2\_Non-Beamforming Mode



For EUT 1 / Radio 2\_Non-Beamforming Mode







**For EUT 1 / Radio 3\_Non-Beamforming Mode  
Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	9M	17.116M	17M1G1D	7M	12.269M
802.11g_Nss1,(6Mbps)_2TX	16.35M	26.687M	26M7D1D	16.3M	16.692M
802.11ax HEW20_Nss1,(MCS0)_2TX	18.975M	27.061M	27M1D1D	18.45M	18.991M
802.11ax HEW40_Nss1,(MCS0)_2TX	37.65M	37.681M	37M7D1D	36.85M	37.381M

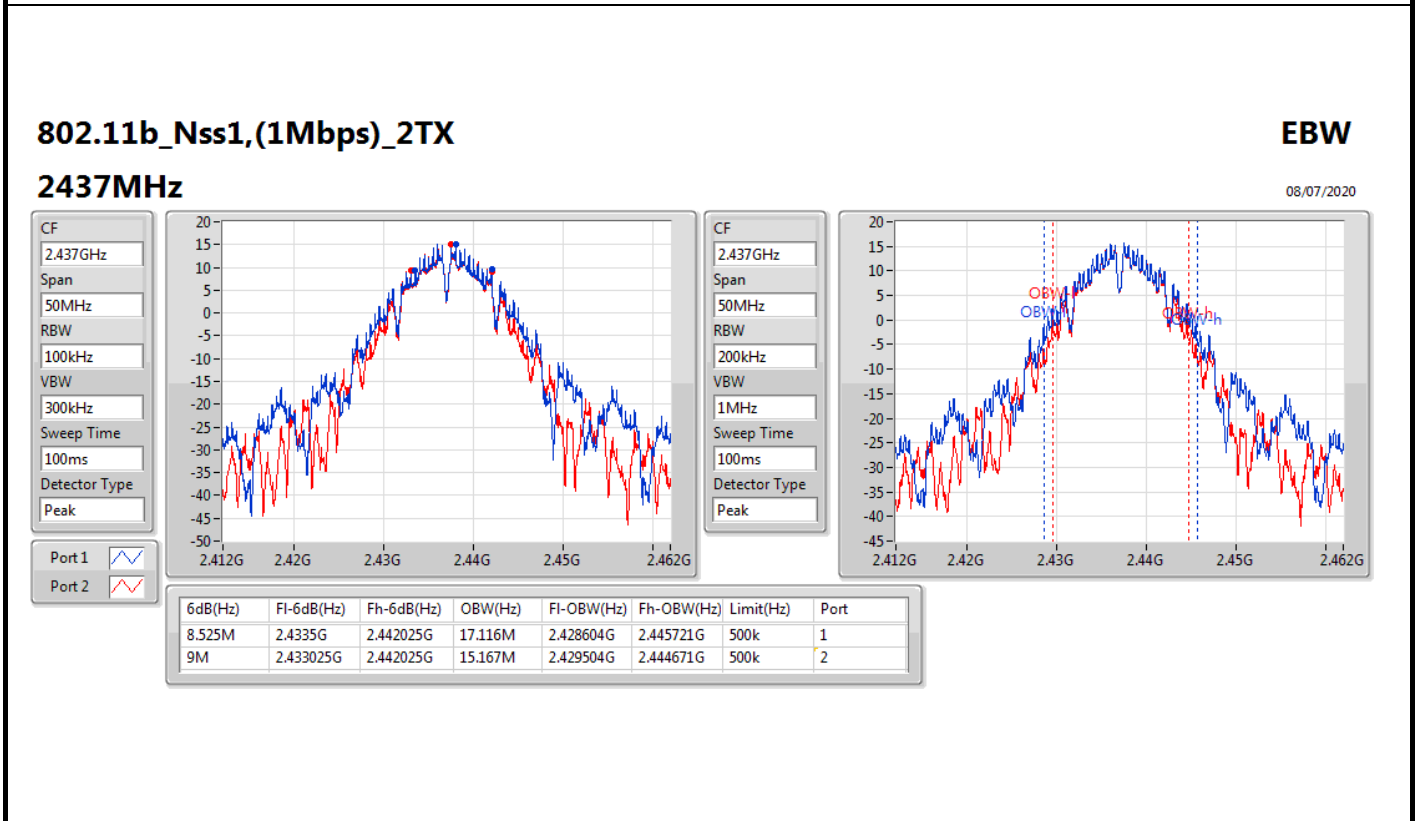
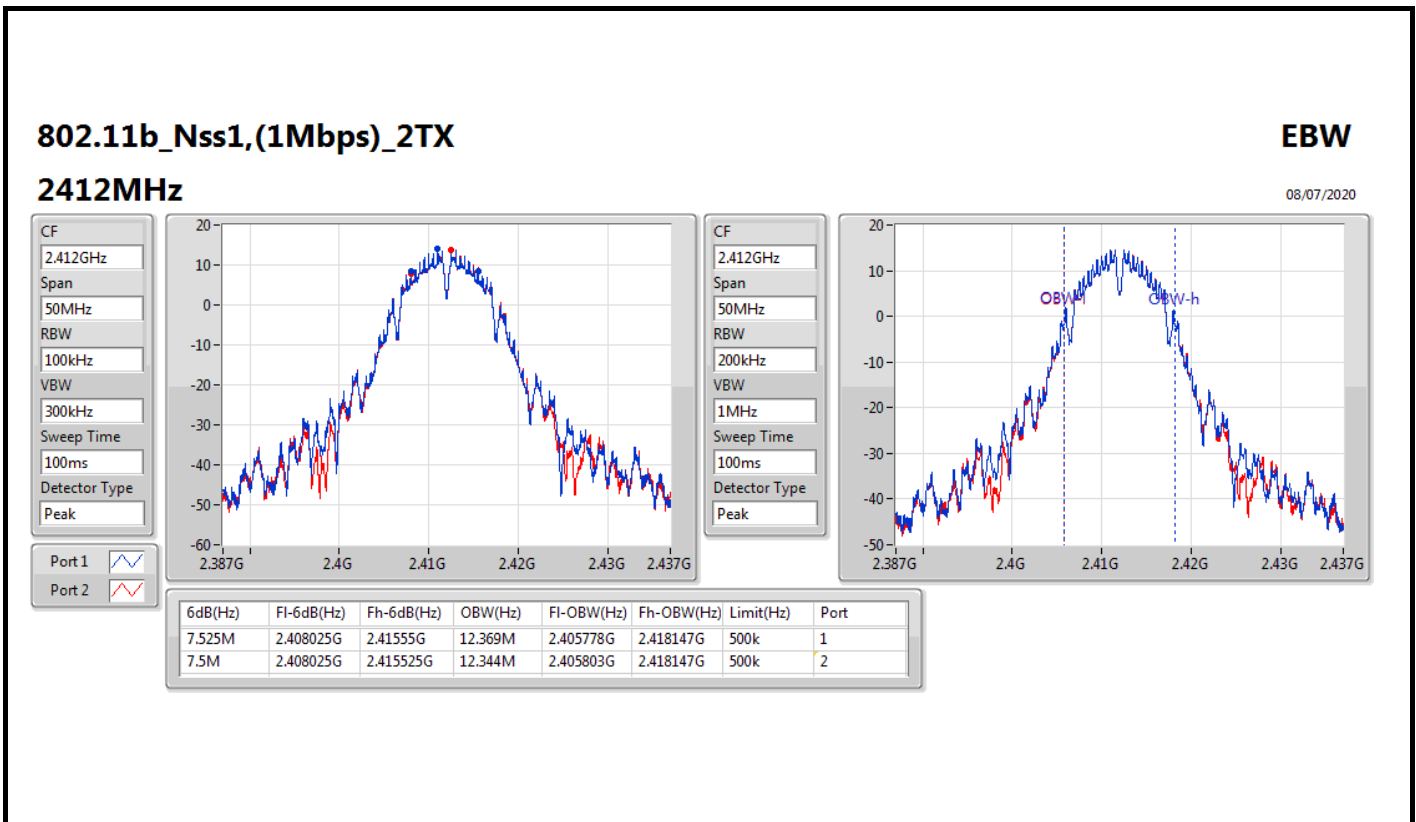
**Max-N dB** = Maximum 6dB down bandwidth; **Max-OBW** = Maximum 99% occupied bandwidth;  
**Min-N dB** = Minimum 6dB down bandwidth; **Min-OBW** = Minimum 99% occupied bandwidth;

**For EUT 1 / Radio 3\_Non-Beamforming Mode  
Result**

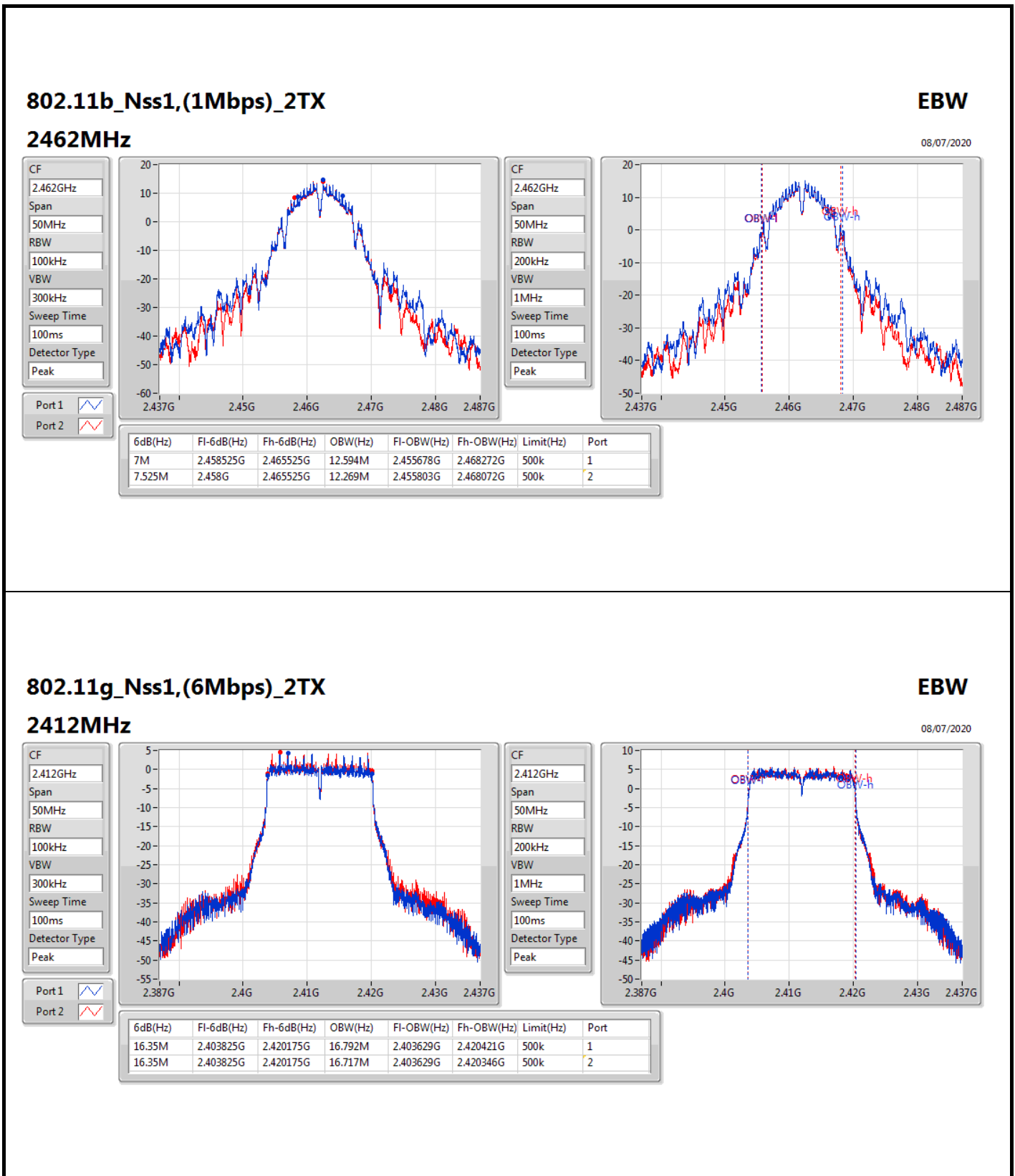
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	7.525M	12.369M	7.5M	12.344M
2437MHz	Pass	500k	8.525M	17.116M	9M	15.167M
2462MHz	Pass	500k	7M	12.594M	7.525M	12.269M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	16.35M	16.792M	16.35M	16.717M
2437MHz	Pass	500k	16.325M	26.687M	16.3M	26.662M
2462MHz	Pass	500k	16.325M	16.742M	16.325M	16.692M
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	18.975M	19.115M	18.95M	19.14M
2437MHz	Pass	500k	18.45M	27.061M	18.675M	26.537M
2462MHz	Pass	500k	18.9M	18.991M	18.95M	19.04M
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	37.65M	37.681M	36.85M	37.631M
2437MHz	Pass	500k	36.95M	37.681M	36.9M	37.581M
2452MHz	Pass	500k	36.95M	37.431M	37.3M	37.381M

**Port X-N dB** = Port X 6dB down bandwidth; **Port X-OBW** = Port X 99% occupied bandwidth;

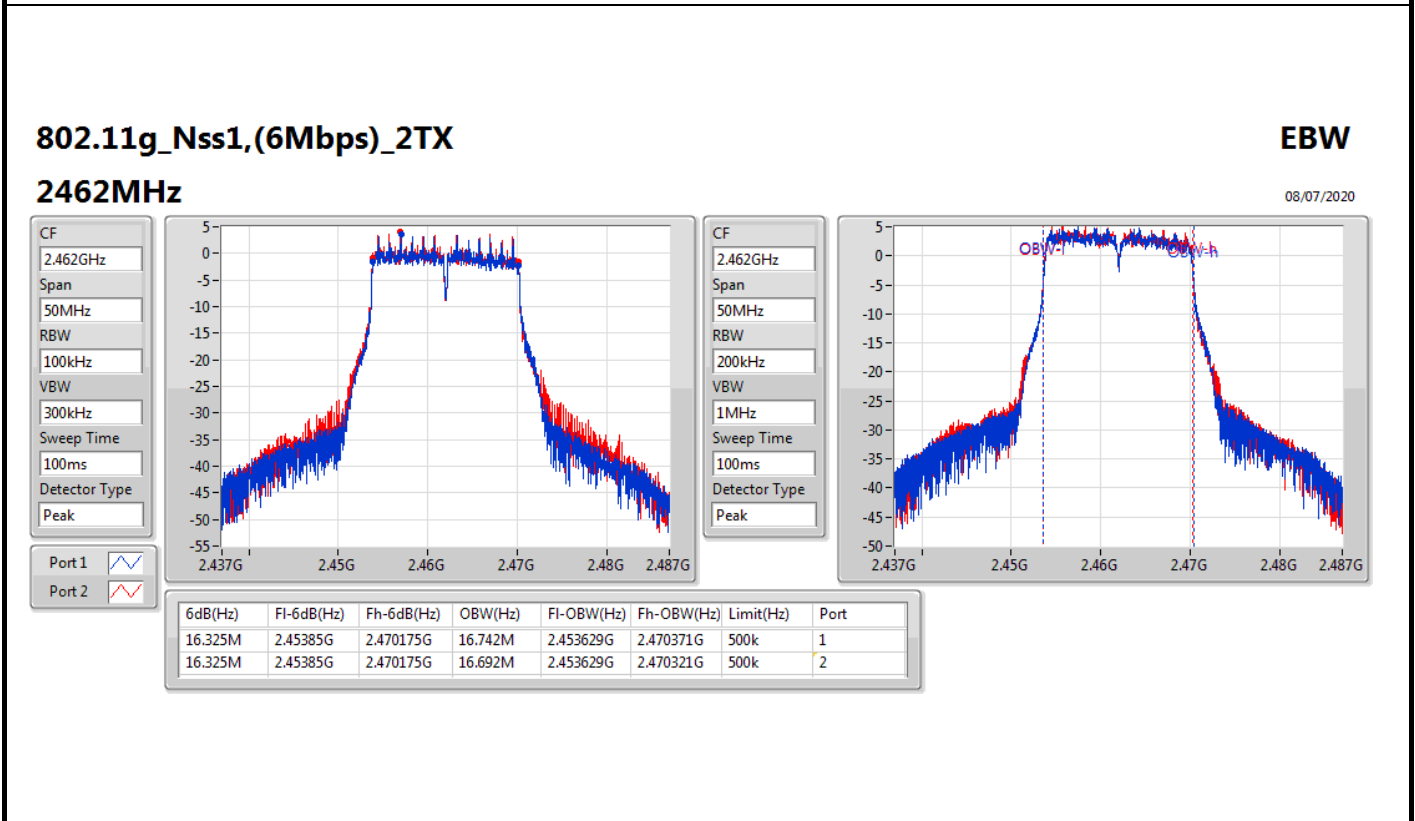
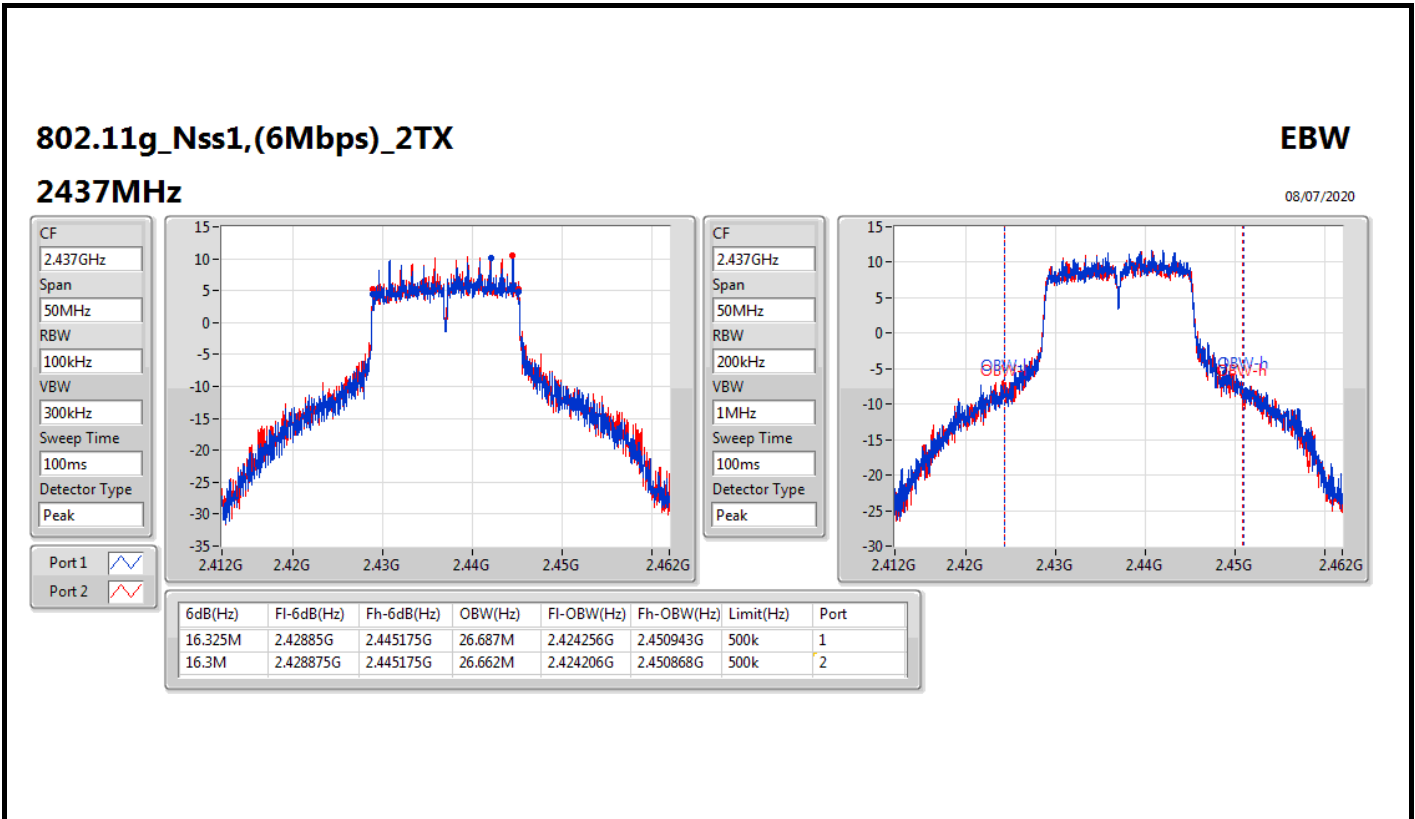
For EUT 1 / Radio 3\_Non-Beamforming Mode



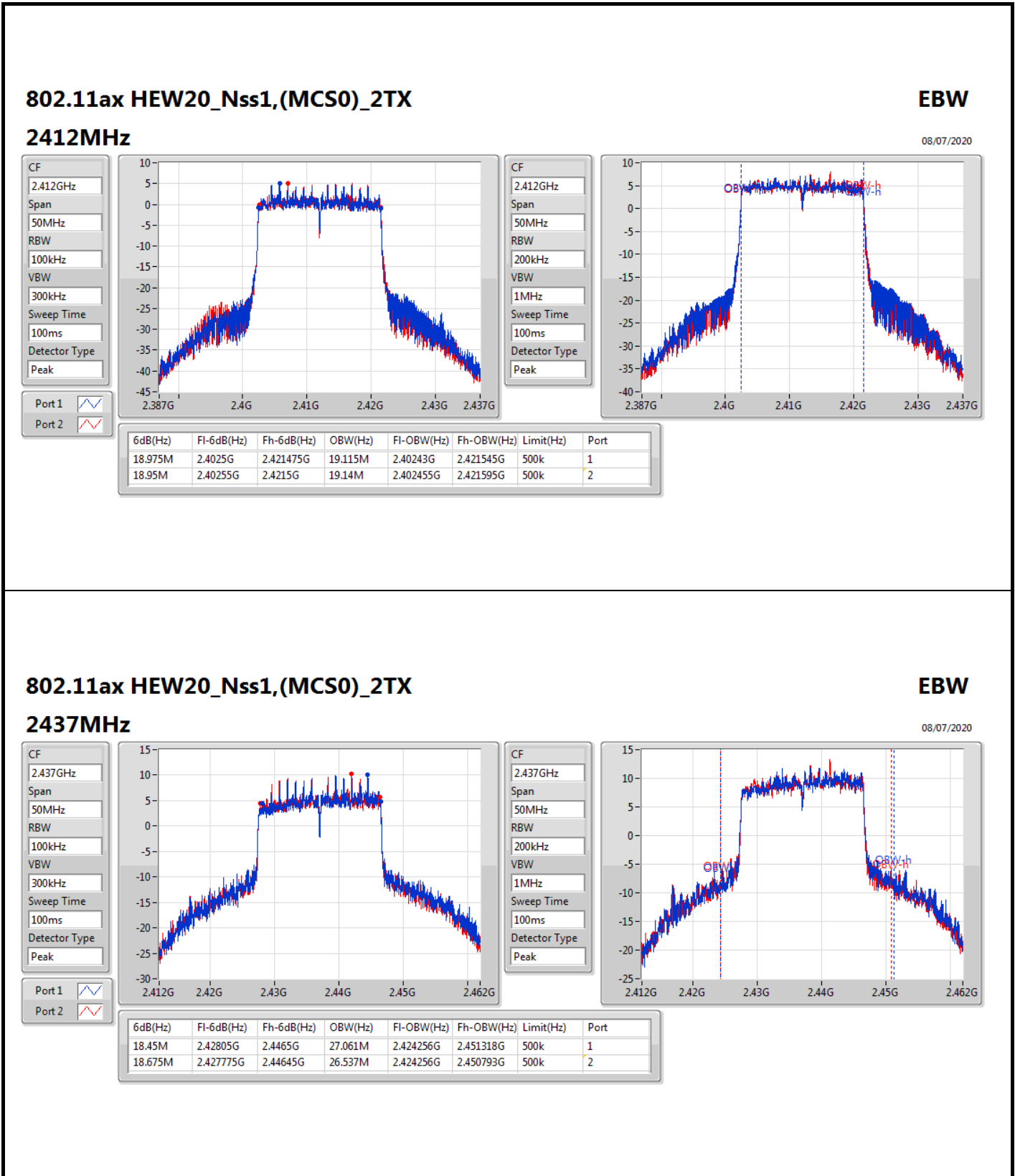
For EUT 1 / Radio 3\_Non-Beamforming Mode



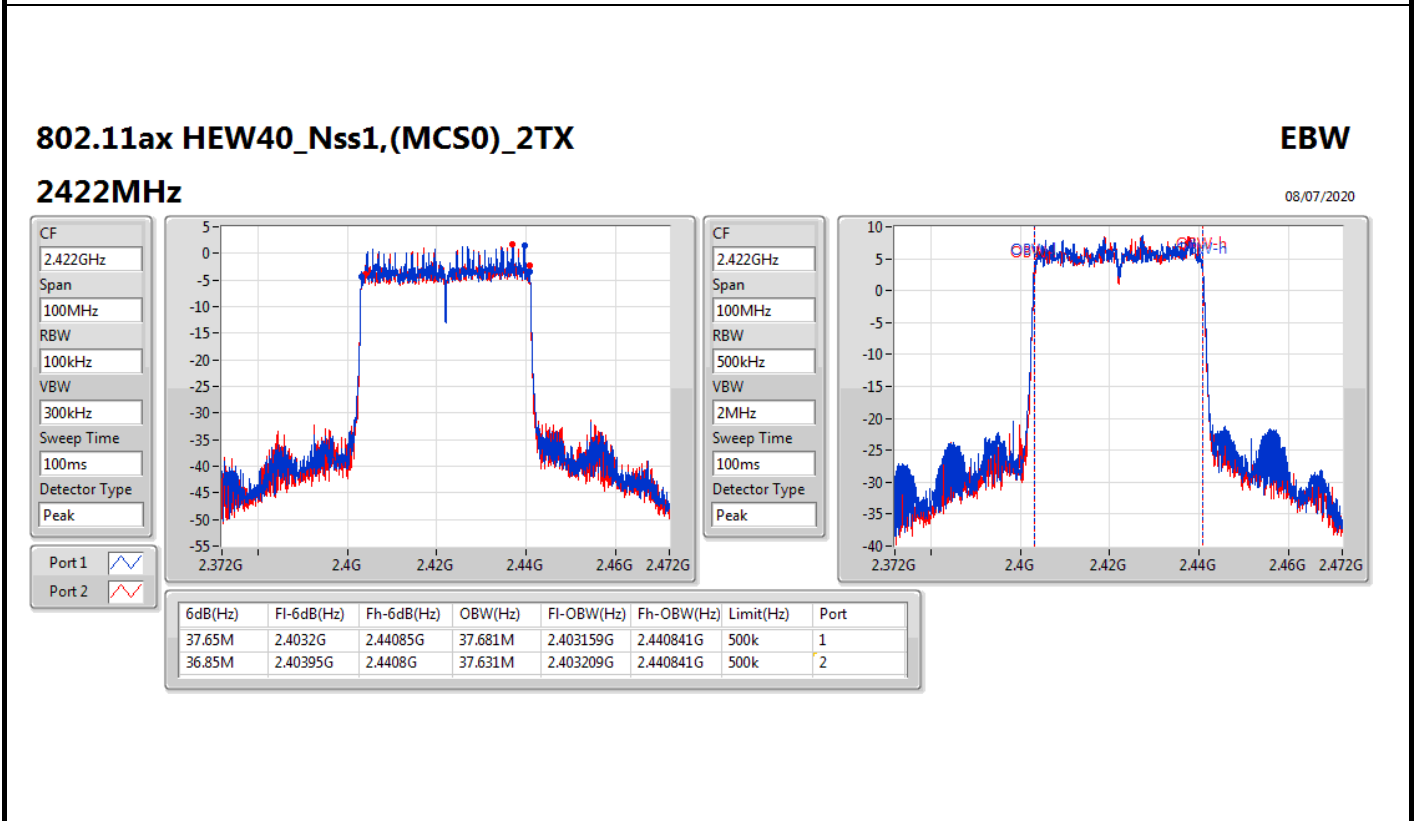
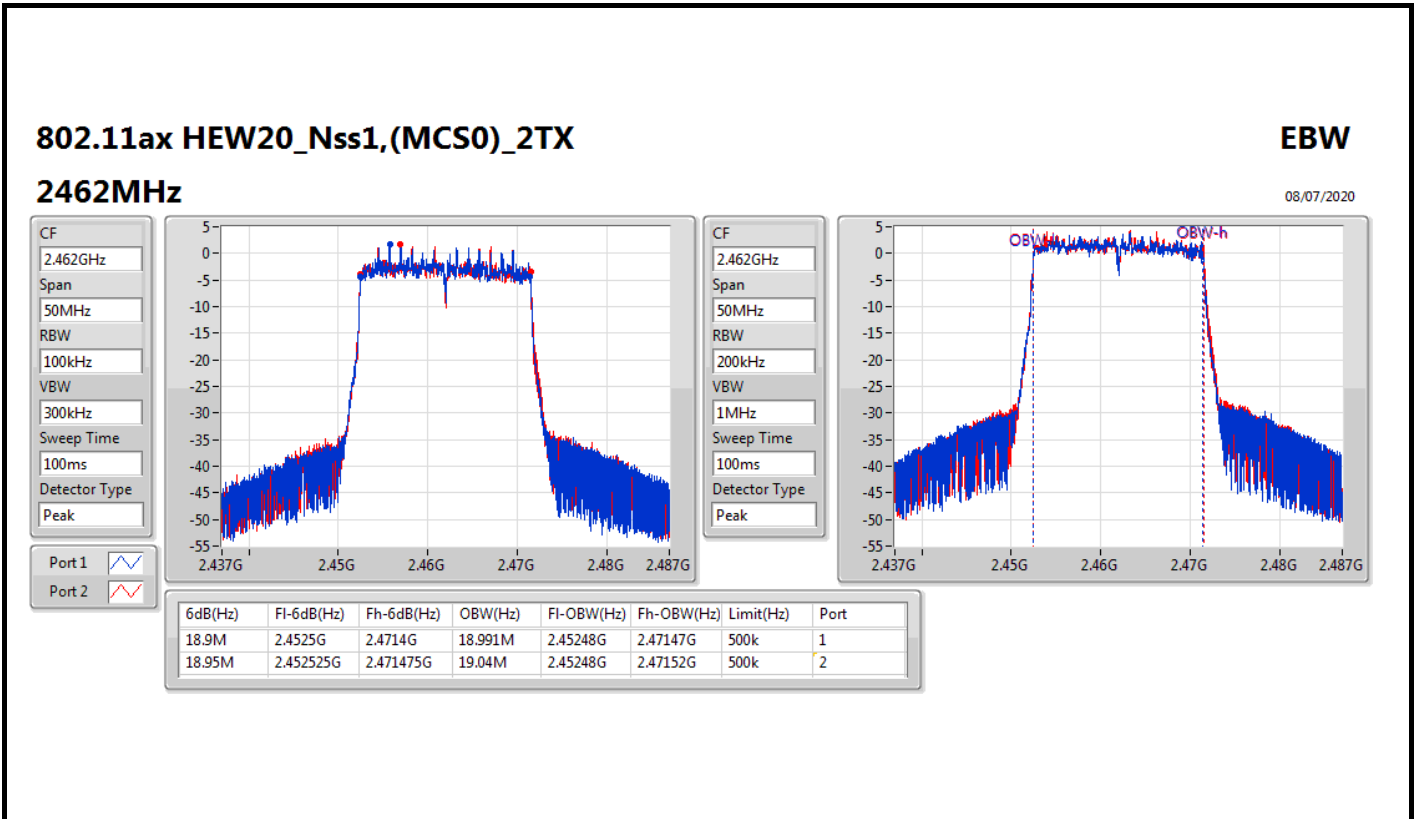
For EUT 1 / Radio 3\_Non-Beamforming Mode



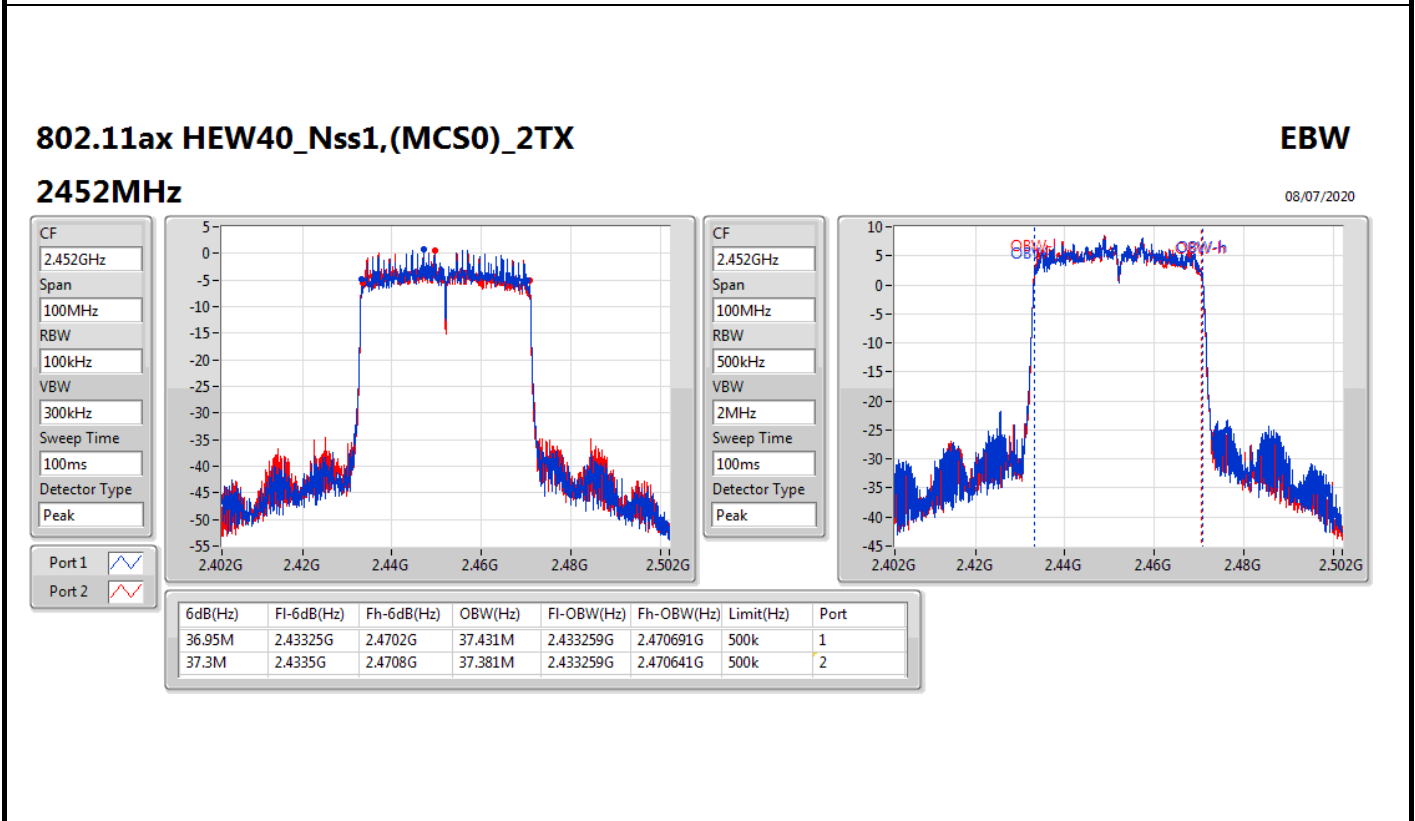
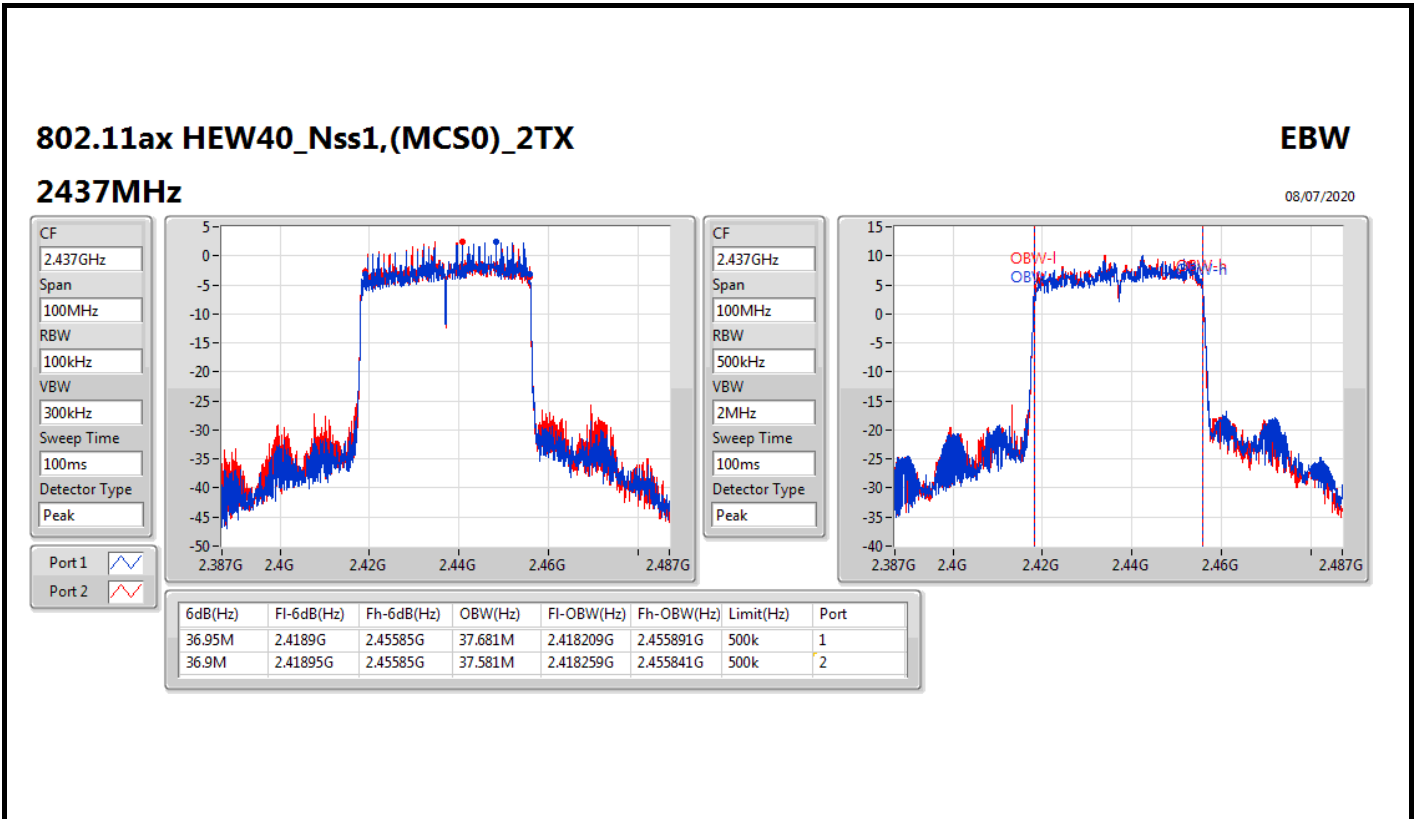
For EUT 1 / Radio 3\_Non-Beamforming Mode



For EUT 1 / Radio 3\_Non-Beamforming Mode



For EUT 1 / Radio 3\_Non-Beamforming Mode







**For EUT 2 / Radio 2 / External Ant.1\_Non-Beamforming Mode  
Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_4TX	7.525M	15.392M	15M4G1D	6.075M	10.995M
802.11g_Nss1,(6Mbps)_4TX	16.35M	21.514M	21M5D1D	16.05M	16.617M
802.11ax HEW20_Nss1,(MCS0)_4TX	18.975M	22.214M	22M2D1D	18.35M	18.966M
802.11ax HEW40_Nss1,(MCS0)_4TX	37.55M	37.731M	37M7D1D	35.55M	37.281M

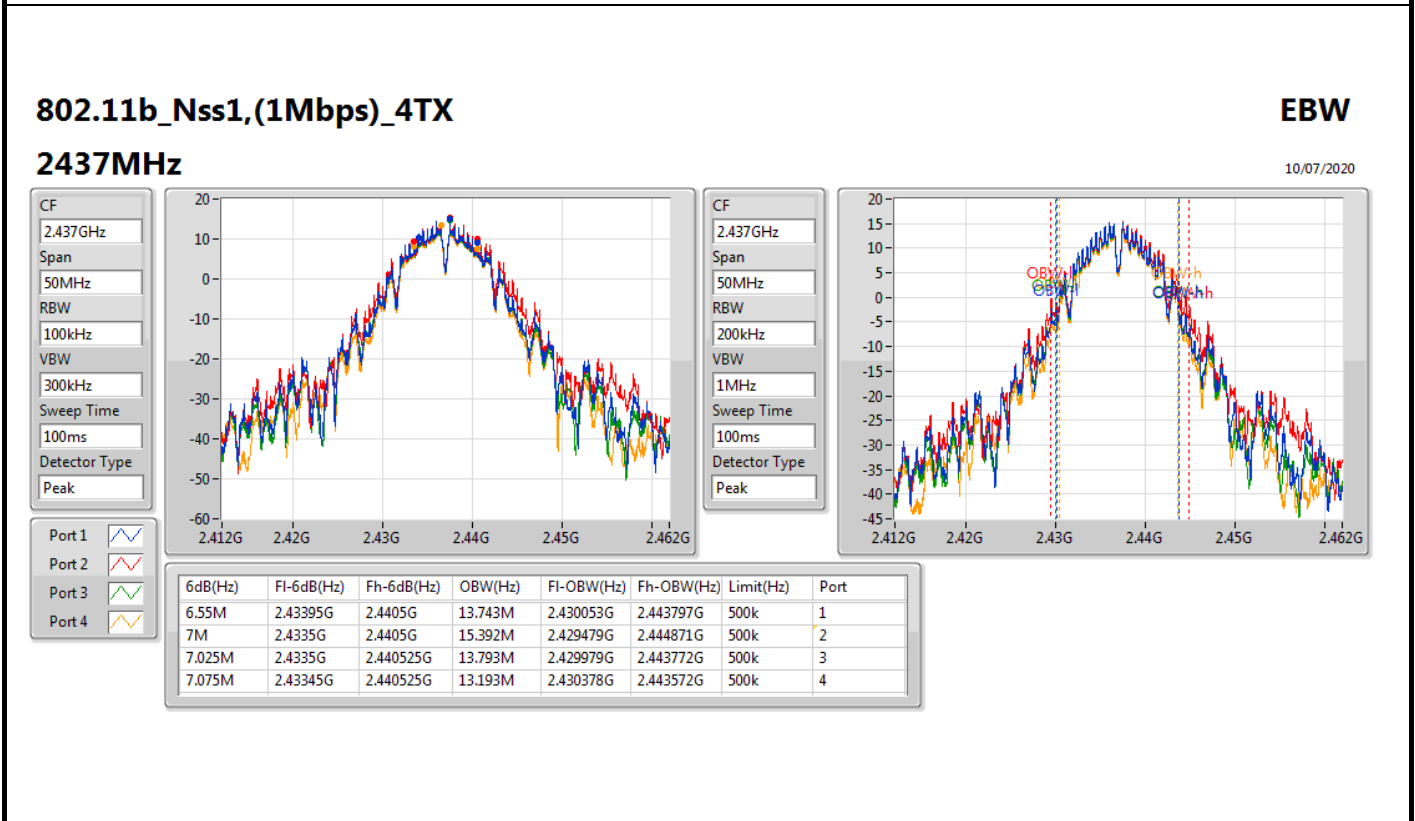
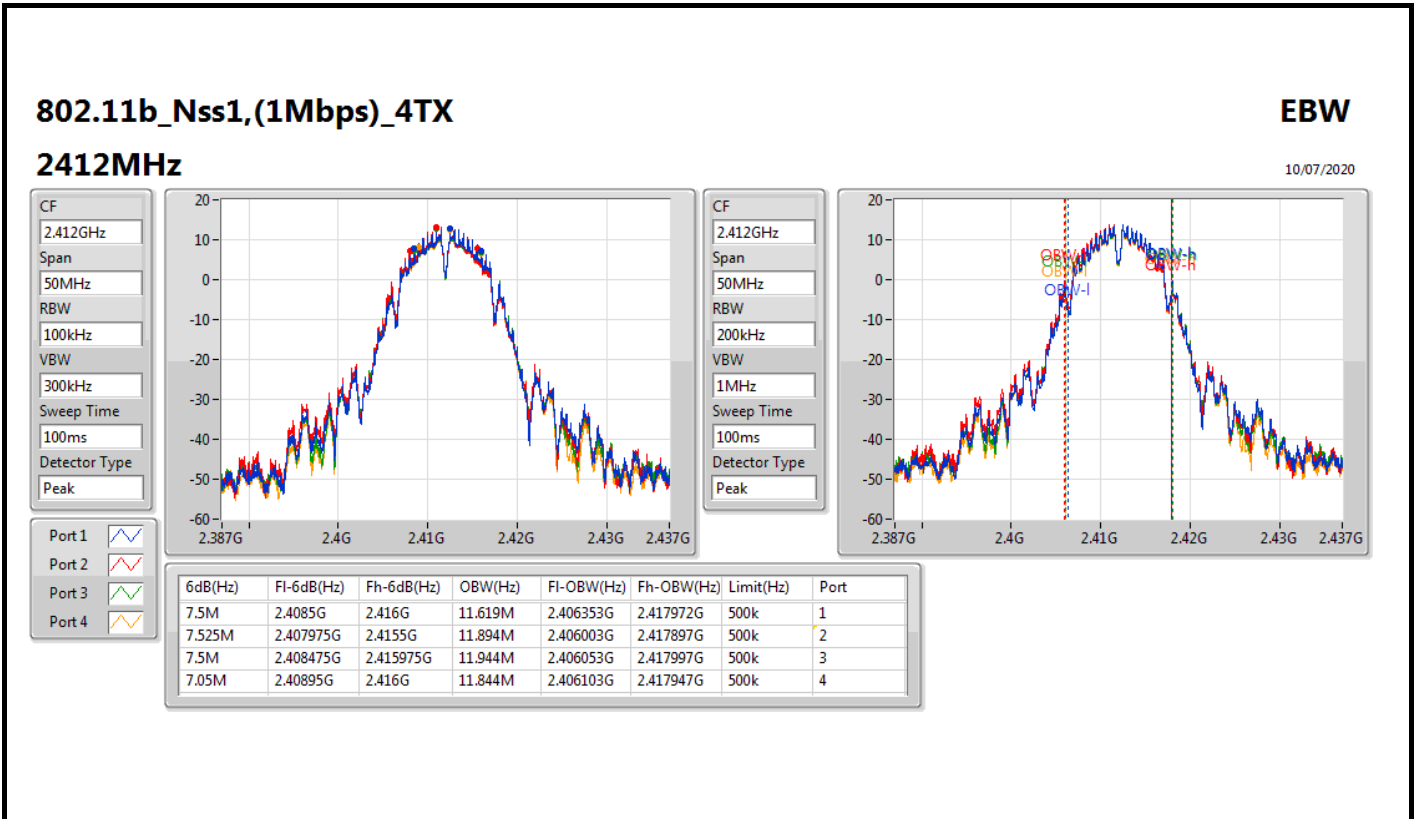
**Max-N dB** = Maximum 6dB down bandwidth; **Max-OBW** = Maximum 99% occupied bandwidth;  
**Min-N dB** = Minimum 6dB down bandwidth; **Min-OBW** = Minimum 99% occupied bandwidth;

**For EUT 2 / Radio 2 / External Ant.1\_Non-Beamforming Mode  
Result**

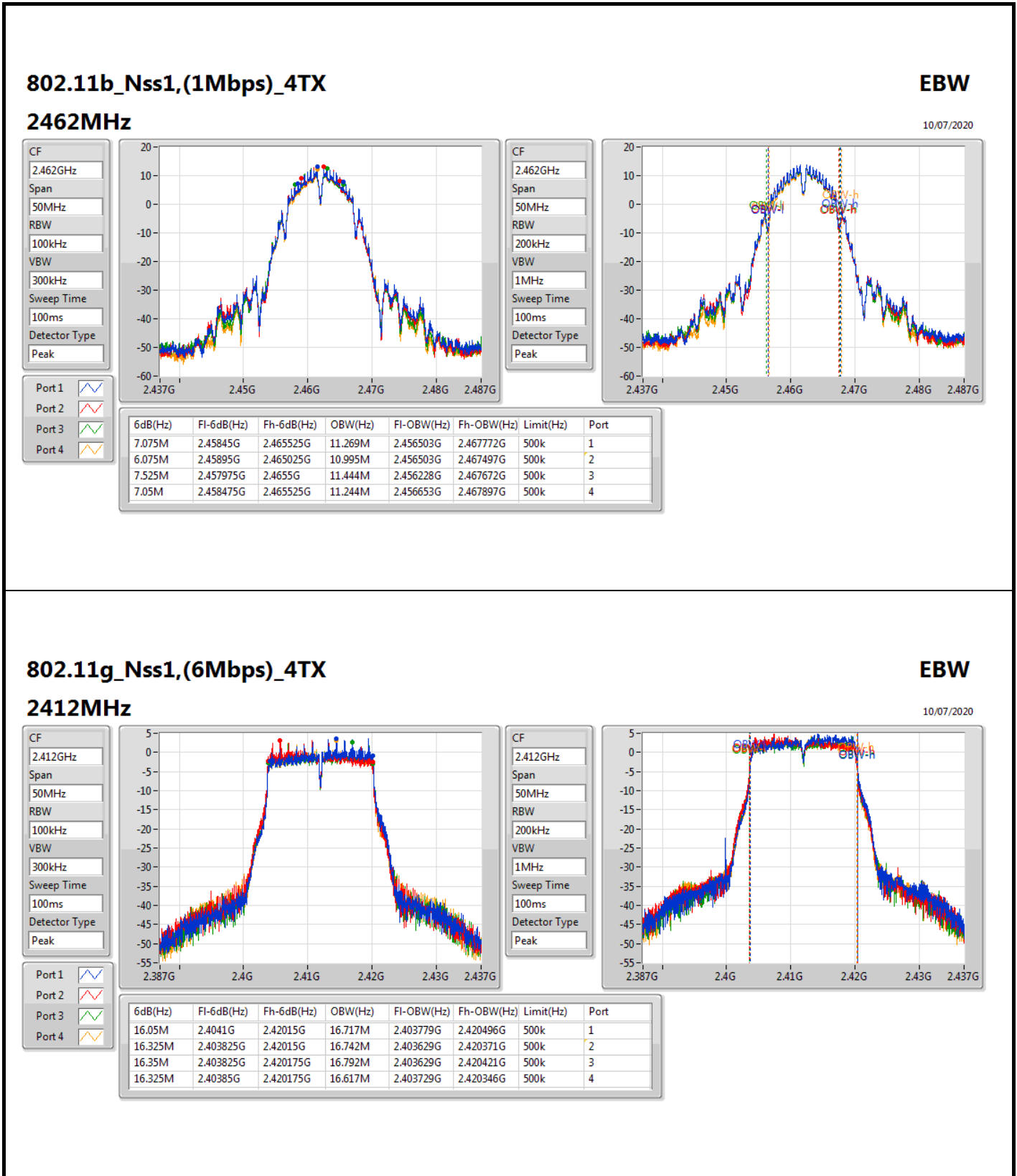
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11b_Nss1,(1Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	7.5M	11.619M	7.525M	11.894M	7.5M	11.944M	7.05M	11.844M
2437MHz	Pass	500k	6.55M	13.743M	7M	15.392M	7.025M	13.793M	7.075M	13.193M
2462MHz	Pass	500k	7.075M	11.269M	6.075M	10.995M	7.525M	11.444M	7.05M	11.244M
802.11g_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	16.05M	16.717M	16.325M	16.742M	16.35M	16.792M	16.325M	16.617M
2437MHz	Pass	500k	16.3M	21.389M	16.35M	21.039M	16.325M	19.715M	16.35M	21.514M
2462MHz	Pass	500k	16.35M	16.792M	16.325M	16.717M	16.35M	16.792M	16.3M	16.667M
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	18.625M	18.966M	18.925M	19.015M	18.75M	19.09M	18.7M	19.04M
2437MHz	Pass	500k	18.75M	20.915M	18.85M	21.214M	18.725M	20.14M	18.925M	22.214M
2462MHz	Pass	500k	18.975M	19.015M	18.9M	18.991M	18.975M	19.09M	18.35M	19.065M
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	500k	35.55M	37.281M	37.15M	37.581M	36.25M	37.481M	35.55M	37.381M
2437MHz	Pass	500k	36.75M	37.581M	36.75M	37.681M	36.9M	37.431M	37.55M	37.731M
2452MHz	Pass	500k	37.5M	37.631M	36.1M	37.381M	37.45M	37.581M	36.6M	37.581M

**Port X-N dB = Port X 6dB down bandwidth; Port X-OBW = Port X 99% occupied bandwidth;**

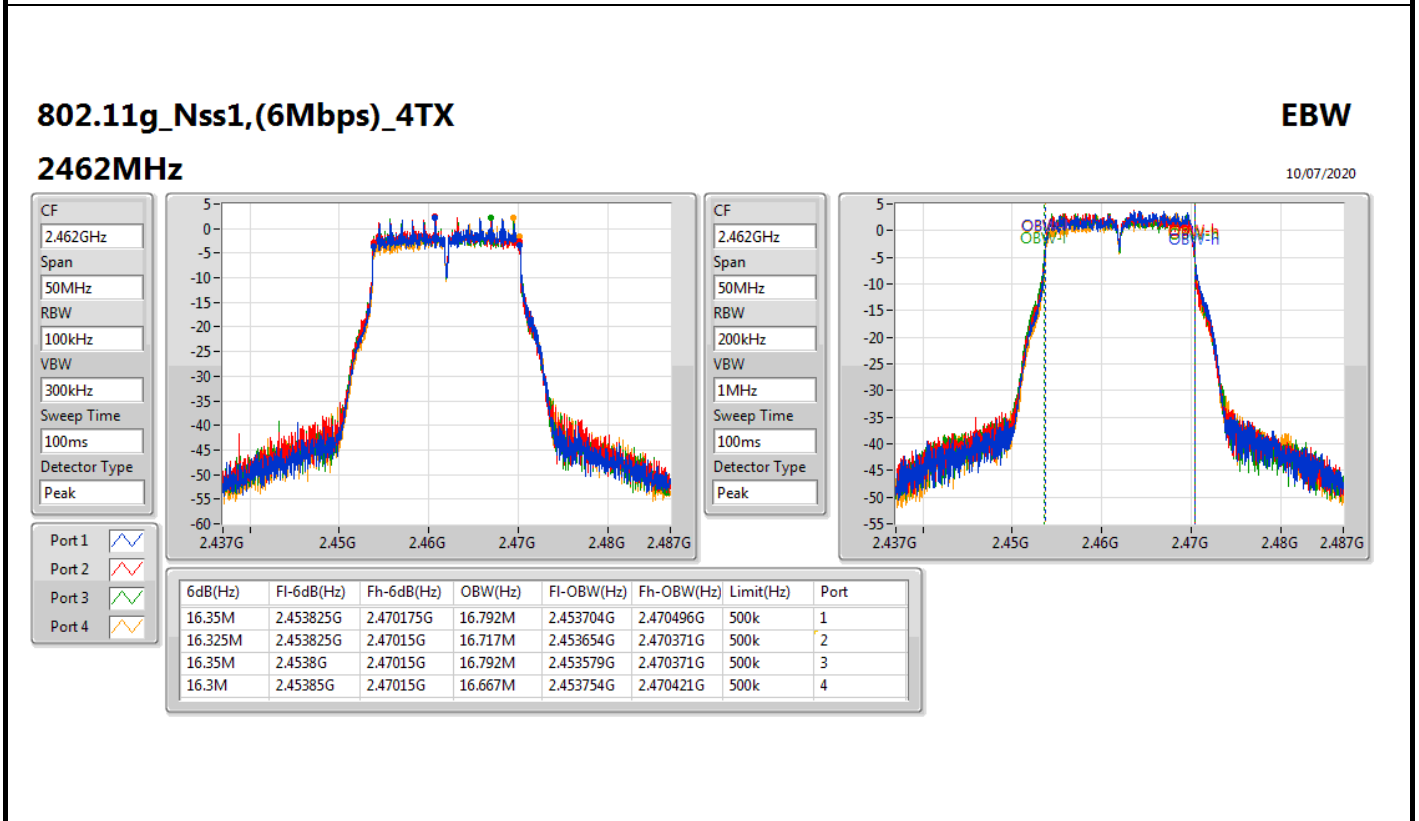
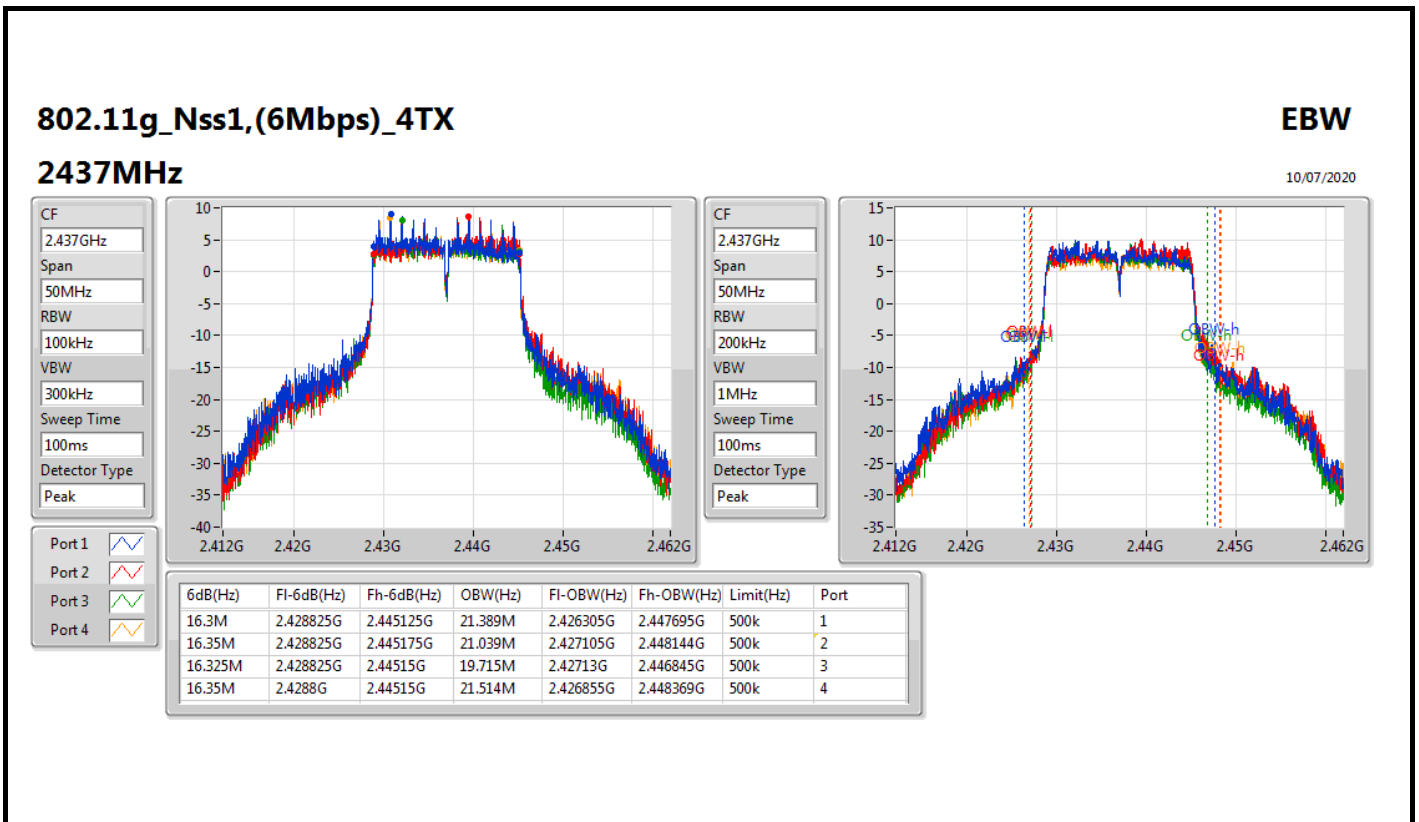
For EUT 2 / Radio 2 / External Ant.1\_Non-Beamforming Mode



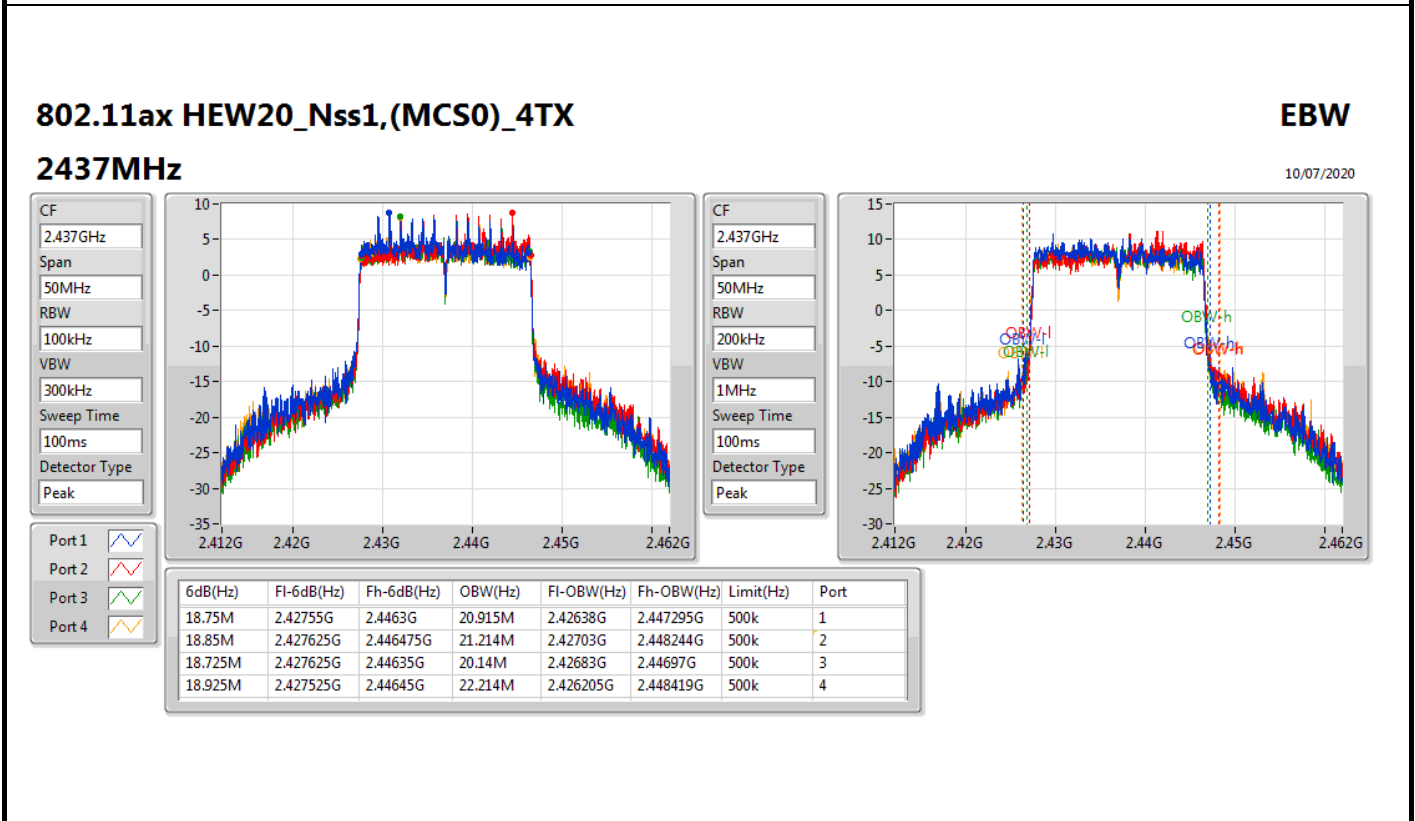
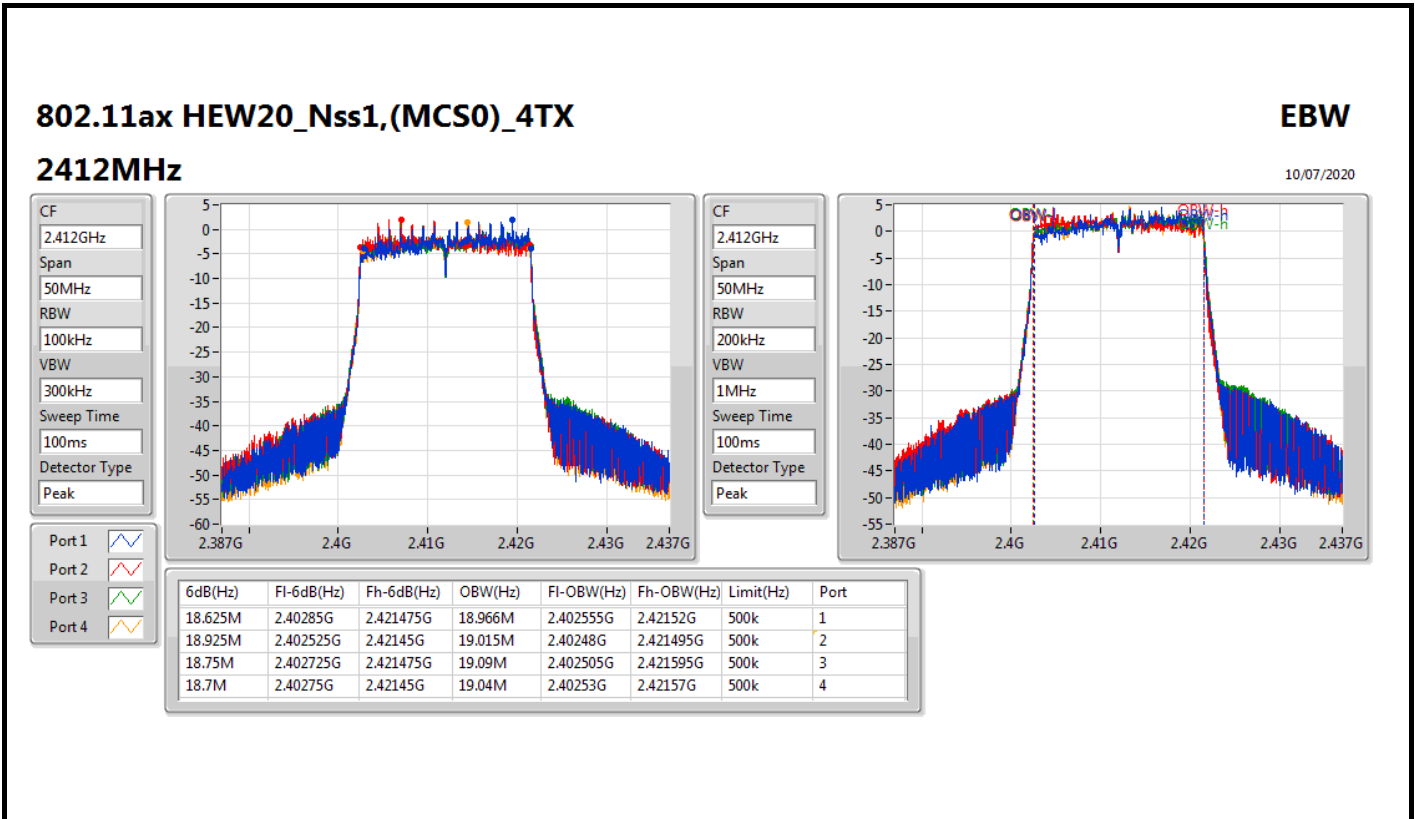
For EUT 2 / Radio 2 / External Ant.1\_Non-Beamforming Mode



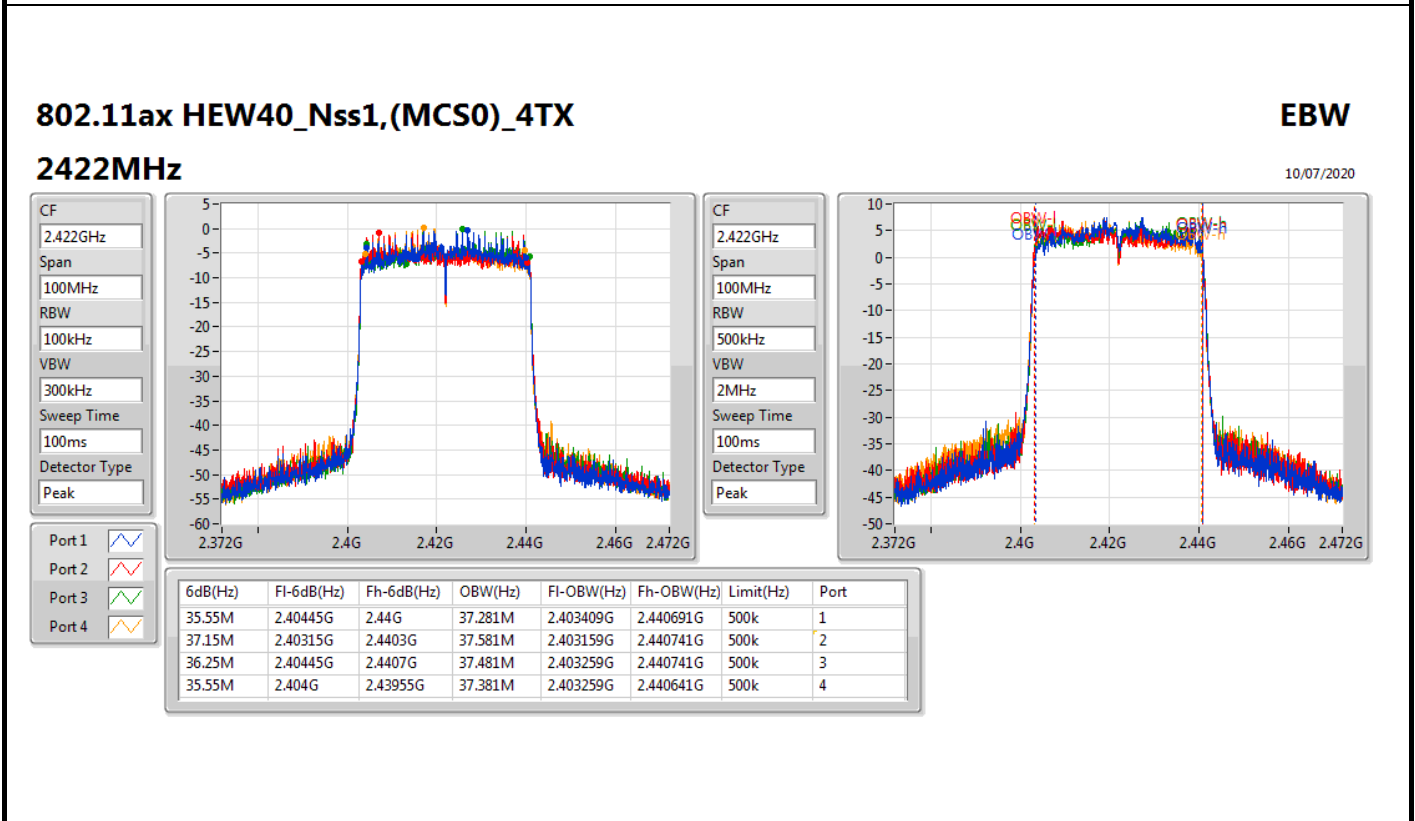
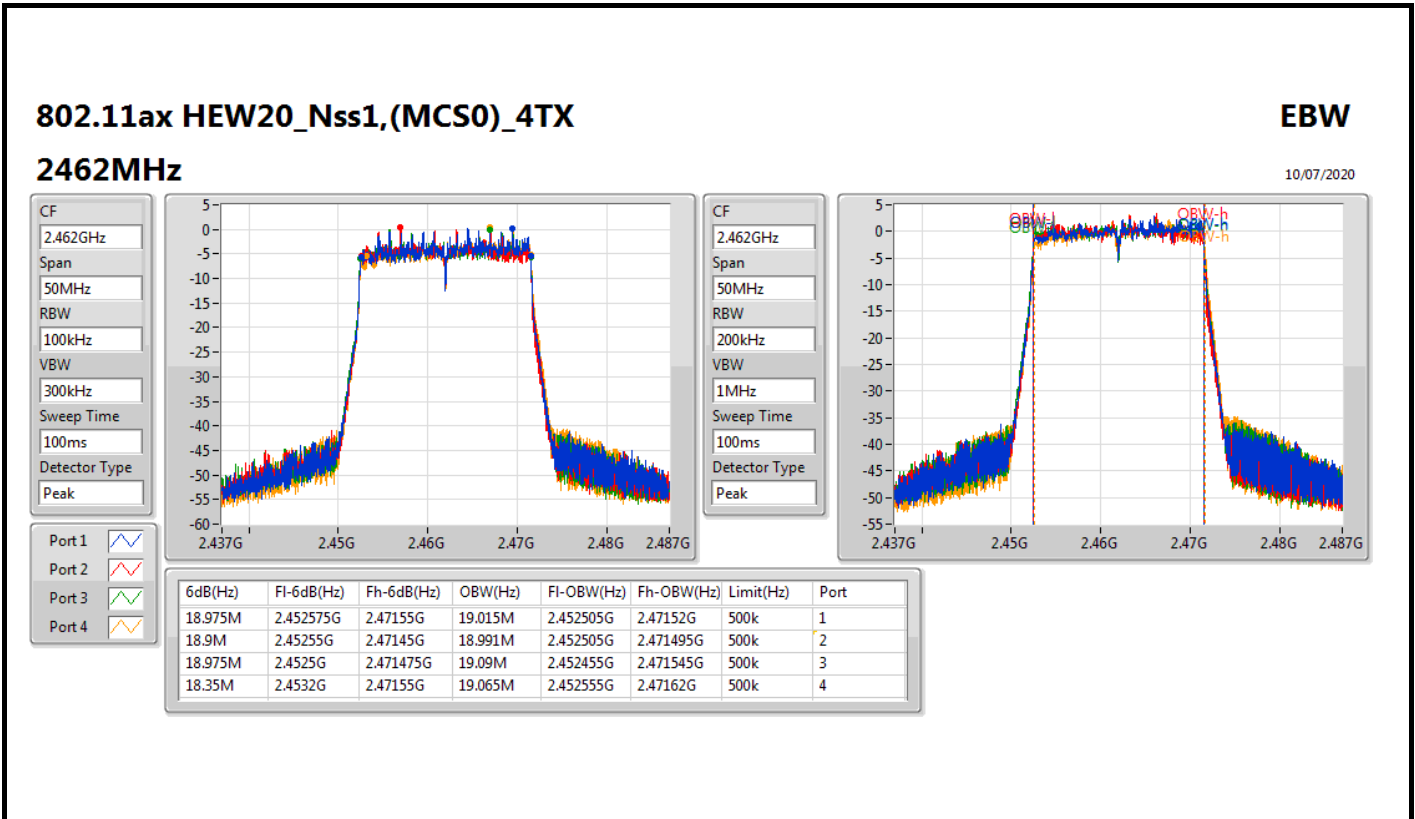
For EUT 2 / Radio 2 / External Ant.1\_Non-Beamforming Mode



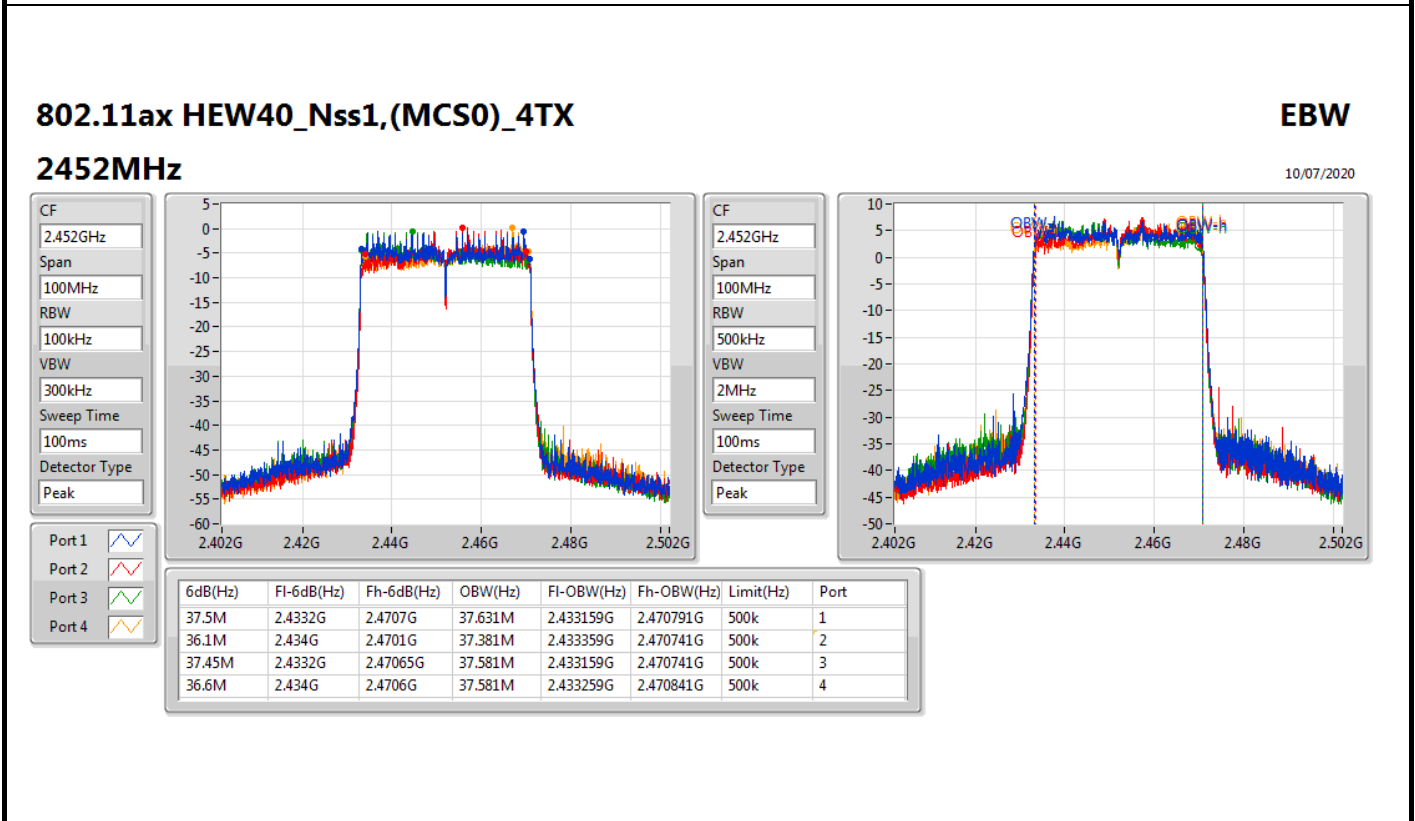
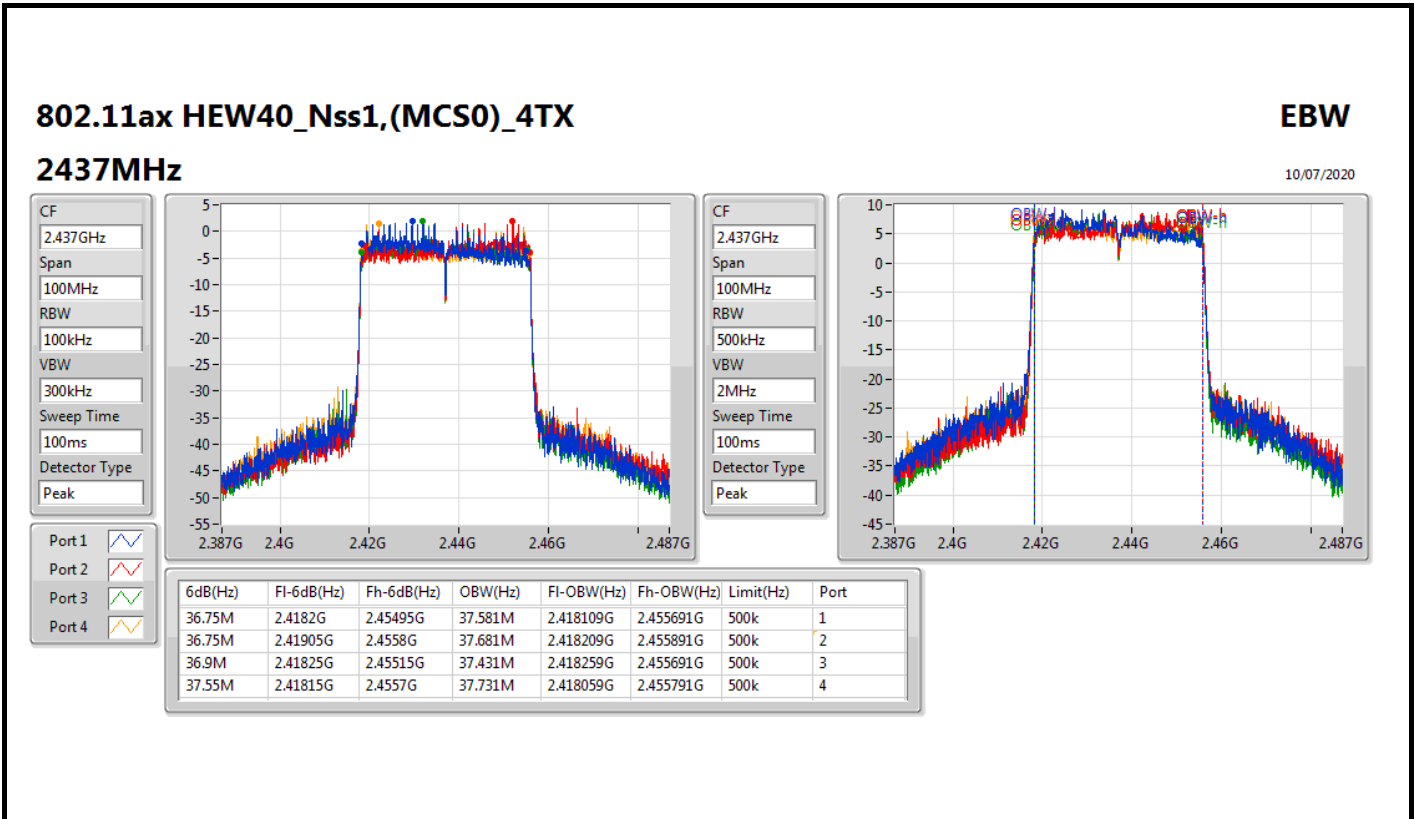
For EUT 2 / Radio 2 / External Ant.1\_Non-Beamforming Mode



For EUT 2 / Radio 2 / External Ant.1\_Non-Beamforming Mode



For EUT 2 / Radio 2 / External Ant.1\_Non-Beamforming Mode







**For EUT 2 / Radio 3 / External Ant.1\_Non-Beamforming Mode  
Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	9.525M	16.542M	16M5G1D	7.025M	11.894M
802.11g_Nss1,(6Mbps)_2TX	16.35M	25.087M	25M1D1D	16.025M	16.692M
802.11ax HEW20_Nss1,(MCS0)_2TX	18.975M	26.362M	26M4D1D	18.4M	19.015M
802.11ax HEW40_Nss1,(MCS0)_2TX	37.55M	37.631M	37M6D1D	35.6M	37.431M

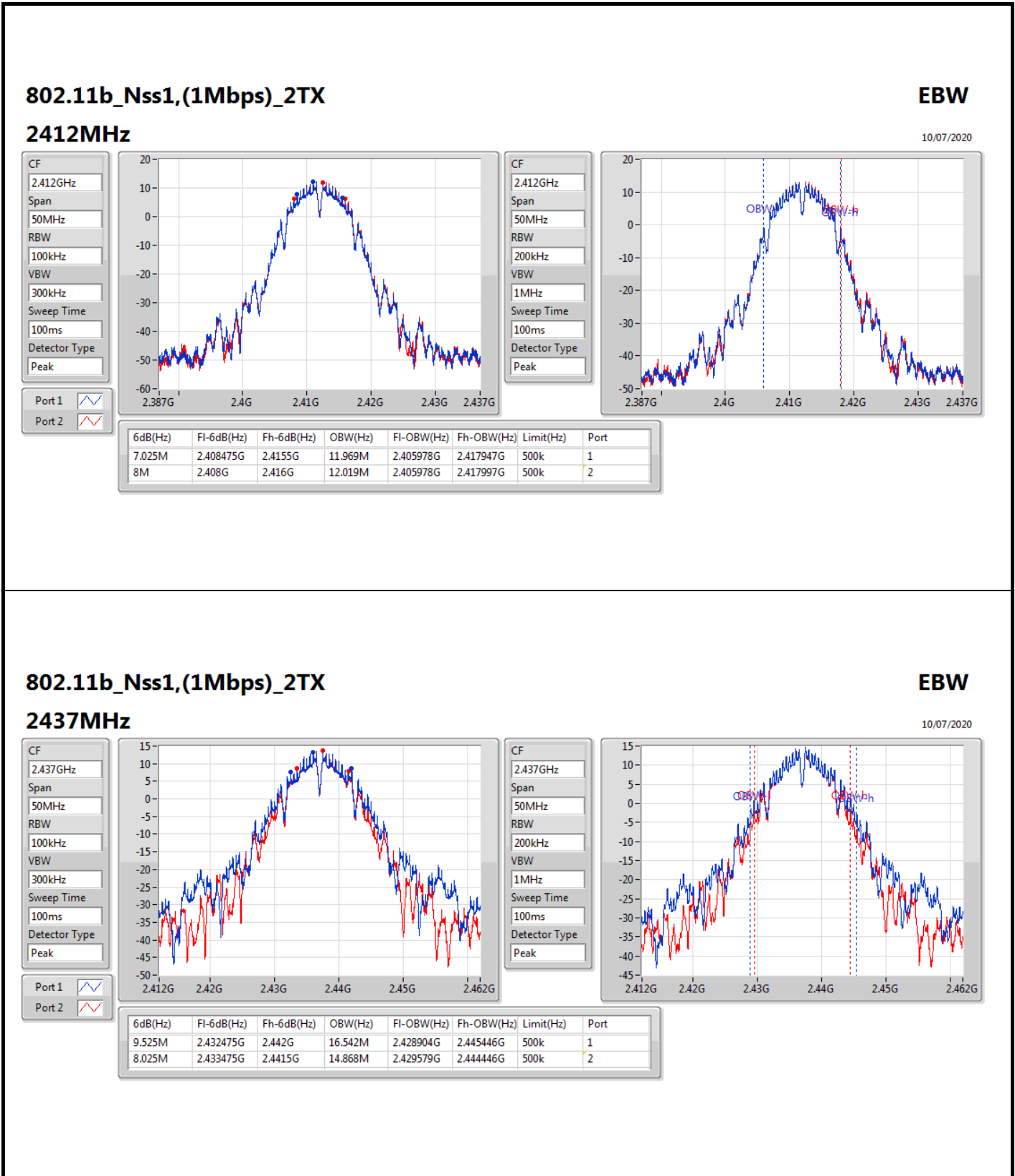
**Max-N dB** = Maximum 6dB down bandwidth; **Max-OBW** = Maximum 99% occupied bandwidth;  
**Min-N dB** = Minimum 6dB down bandwidth; **Min-OBW** = Minimum 99% occupied bandwidth;

**For EUT 2 / Radio 3 / External Ant.1\_Non-Beamforming Mode  
Result**

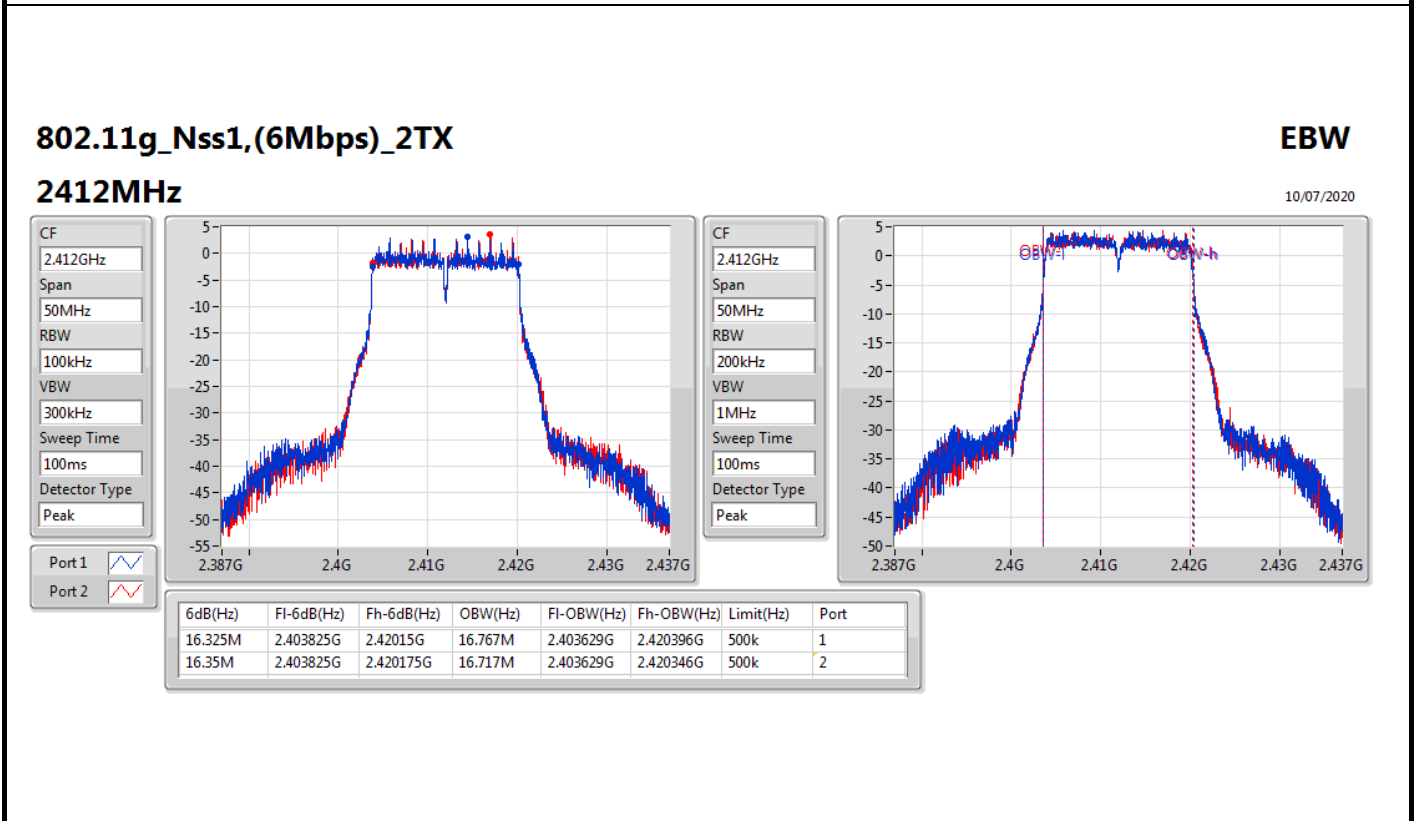
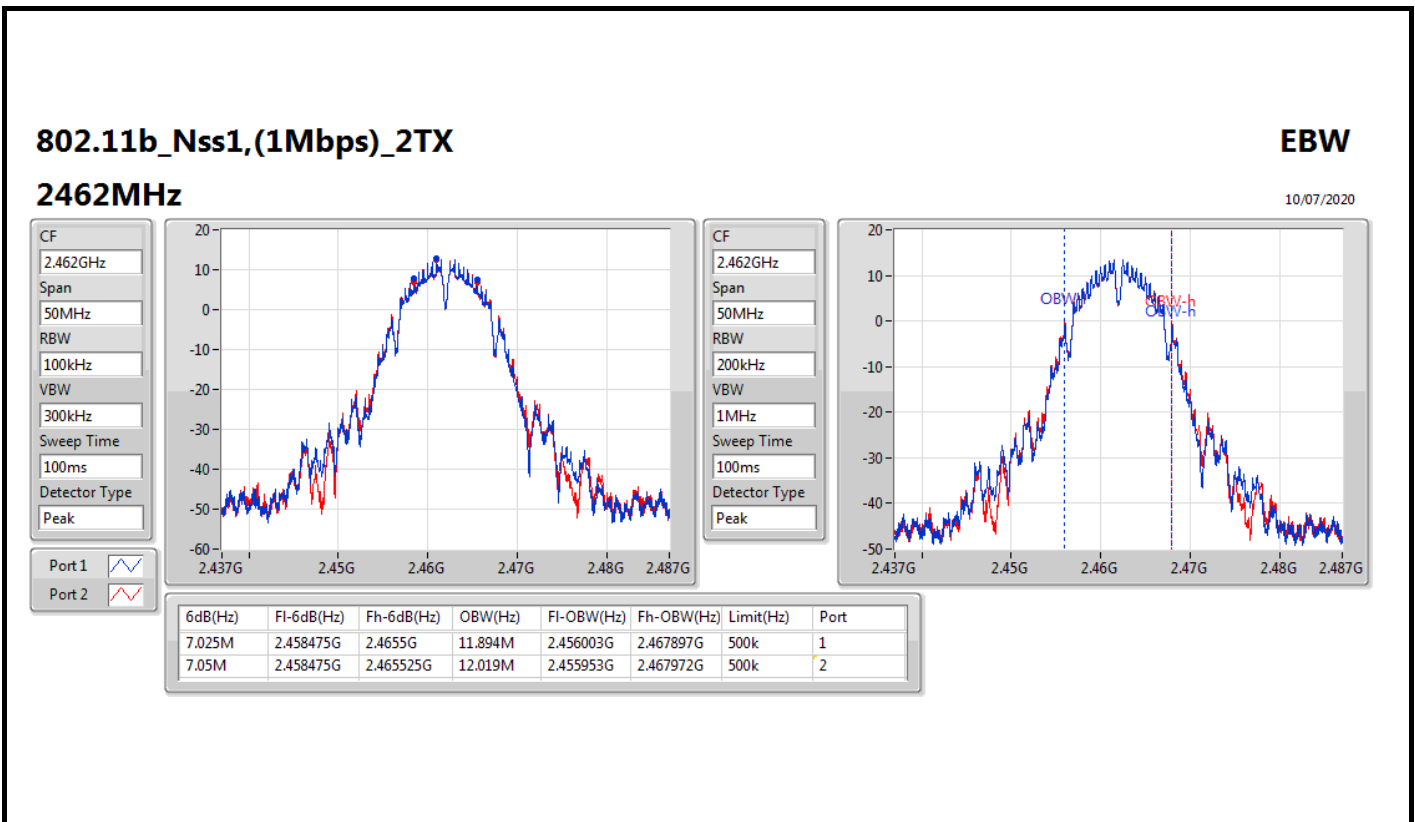
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	7.025M	11.969M	8M	12.019M
2437MHz	Pass	500k	9.525M	16.542M	8.025M	14.868M
2462MHz	Pass	500k	7.025M	11.894M	7.05M	12.019M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	16.325M	16.767M	16.35M	16.717M
2437MHz	Pass	500k	16.025M	25.087M	16.3M	23.838M
2462MHz	Pass	500k	16.325M	16.742M	16.325M	16.692M
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	18.975M	19.04M	18.975M	19.065M
2437MHz	Pass	500k	18.4M	26.362M	18.45M	25.062M
2462MHz	Pass	500k	18.925M	19.015M	18.975M	19.04M
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	37.55M	37.631M	36.75M	37.581M
2437MHz	Pass	500k	36.85M	37.531M	36.25M	37.481M
2452MHz	Pass	500k	37.35M	37.431M	35.6M	37.481M

**Port X-N dB = Port X 6dB down bandwidth; Port X-OBW = Port X 99% occupied bandwidth;**

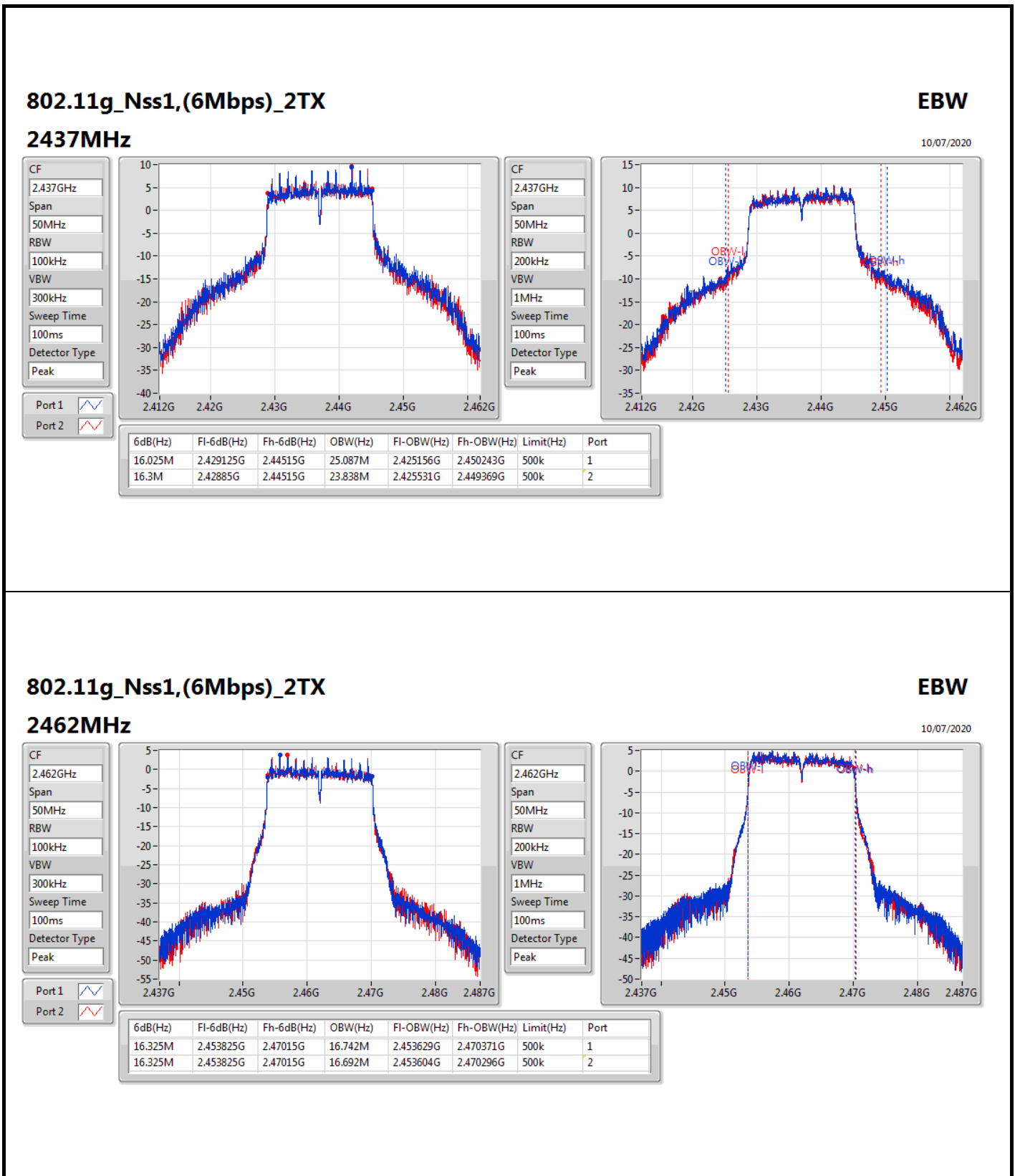
For EUT 2 / Radio 3 / External Ant.1\_Non-Beamforming Mode



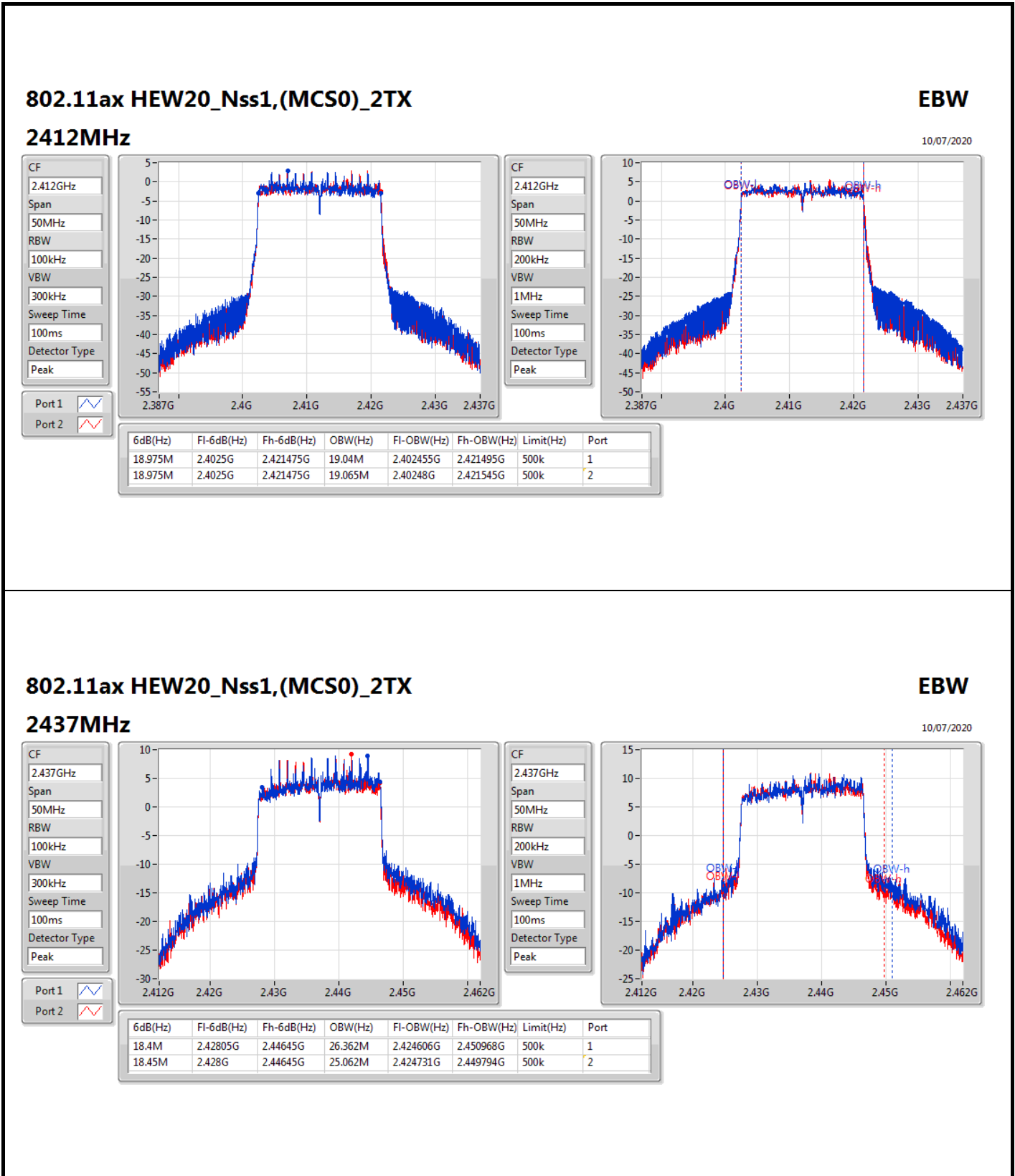
For EUT 2 / Radio 3 / External Ant.1\_Non-Beamforming Mode



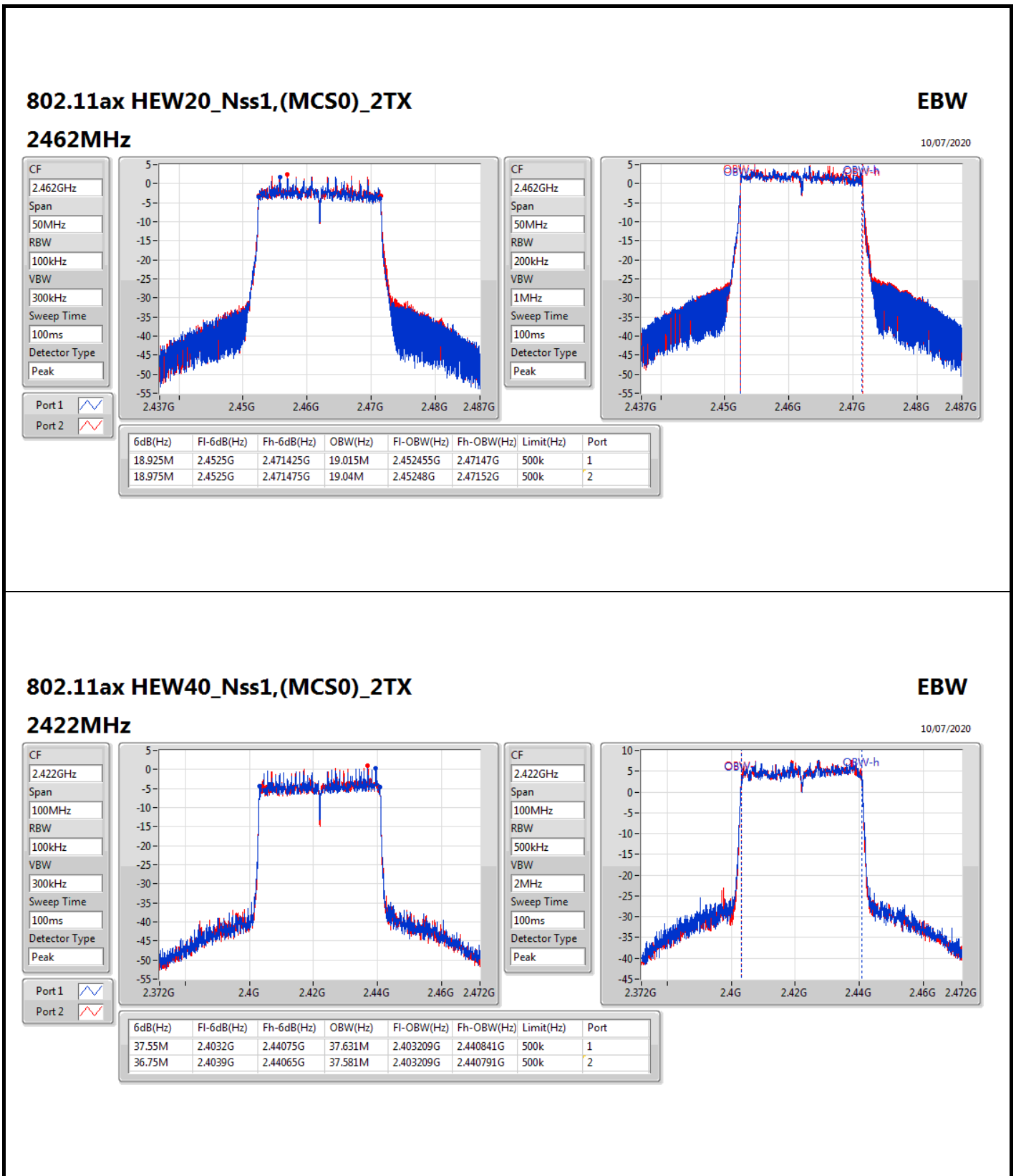
For EUT 2 / Radio 3 / External Ant.1\_Non-Beamforming Mode



For EUT 2 / Radio 3 / External Ant.1\_Non-Beamforming Mode



For EUT 2 / Radio 3 / External Ant.1\_Non-Beamforming Mode



### 802.11ax HEW40\_Nss1,(MCS0)\_2TX

#### 2422MHz

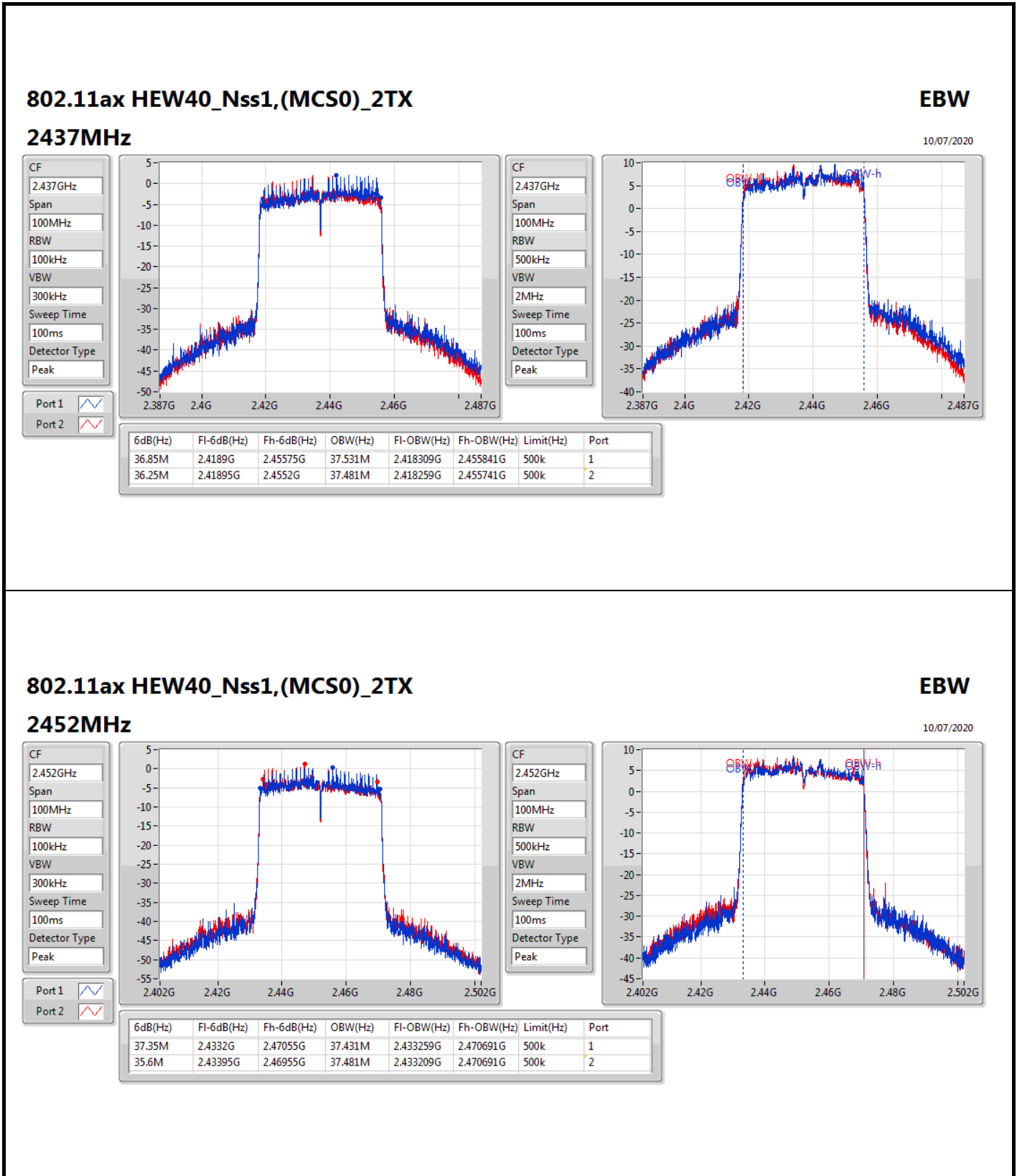
10/07/2020

EBW

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
37.55M	2.4032G	2.44075G	37.631M	2.403209G	2.440841G	500k	1
36.75M	2.4039G	2.44065G	37.581M	2.403209G	2.440791G	500k	2

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
37.55M	2.4032G	2.44075G	37.631M	2.403209G	2.440841G	500k	1
36.75M	2.4039G	2.44065G	37.581M	2.403209G	2.440791G	500k	2

For EUT 2 / Radio 3 / External Ant.1\_Non-Beamforming Mode



### 802.11ax HEW40\_Nss1,(MCS0)\_2TX

#### 2452MHz

10/07/2020

EBW

CF: 2.452GHz

Span: 100MHz

RBW: 100kHz

VBW: 300kHz

Sweep Time: 100ms

Detector Type: Peak

Port 1:

Port 2:

CF: 2.452GHz

Span: 100MHz

RBW: 500kHz

VBW: 2MHz

Sweep Time: 100ms

Detector Type: Peak





**For EUT 2 / Radio 2 / External Ant.2\_Non-Beamforming Mode  
Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_4TX	7.55M	12.244M	12M2G1D	6.525M	10.695M
802.11g_Nss1,(6Mbps)_4TX	16.35M	17.091M	17M1D1D	16.05M	16.592M
802.11ax HEW20_Nss1,(MCS0)_4TX	18.9M	19.14M	19M1D1D	18.2M	18.966M
802.11ax HEW40_Nss1,(MCS0)_4TX	37.65M	37.681M	37M7D1D	35.25M	37.331M

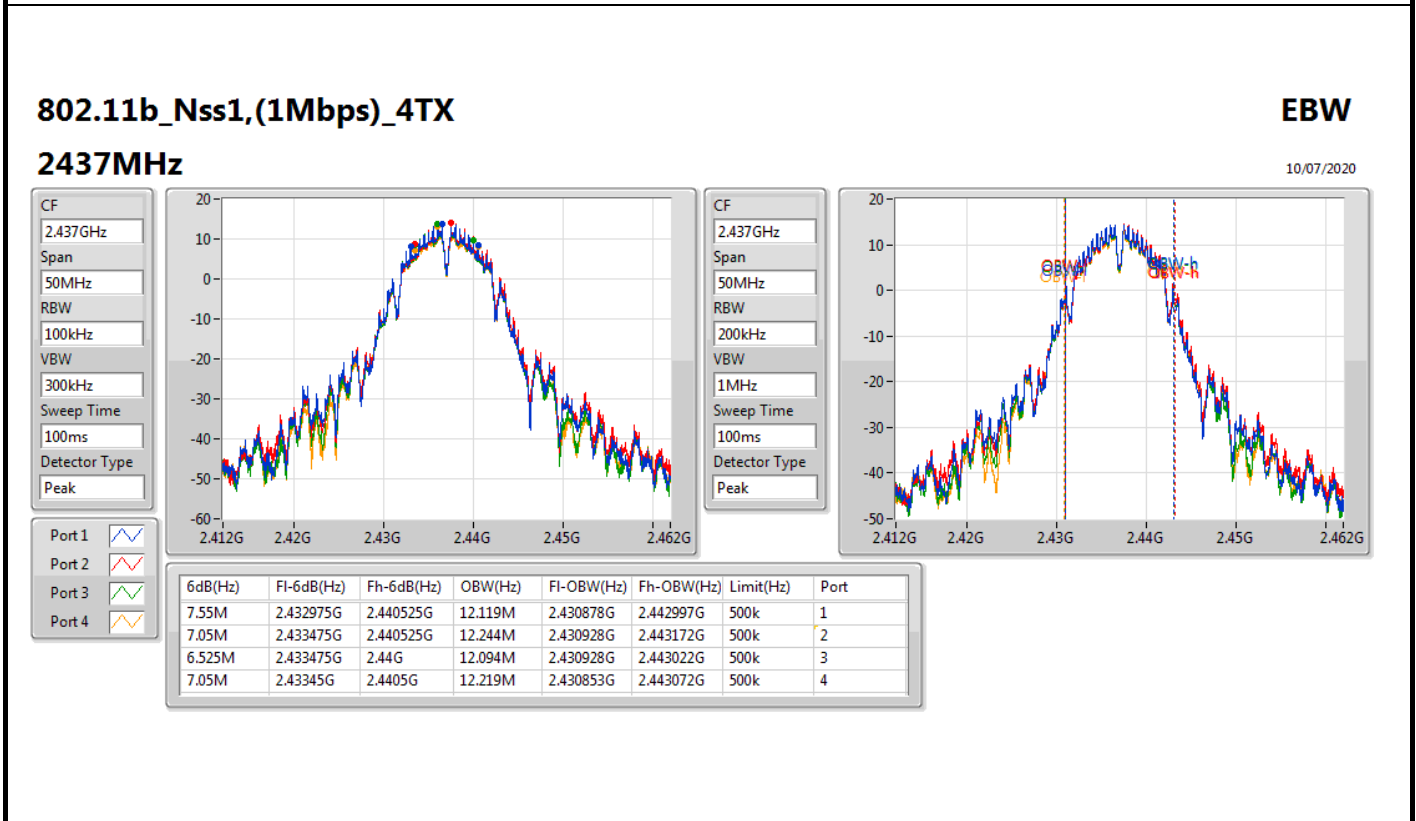
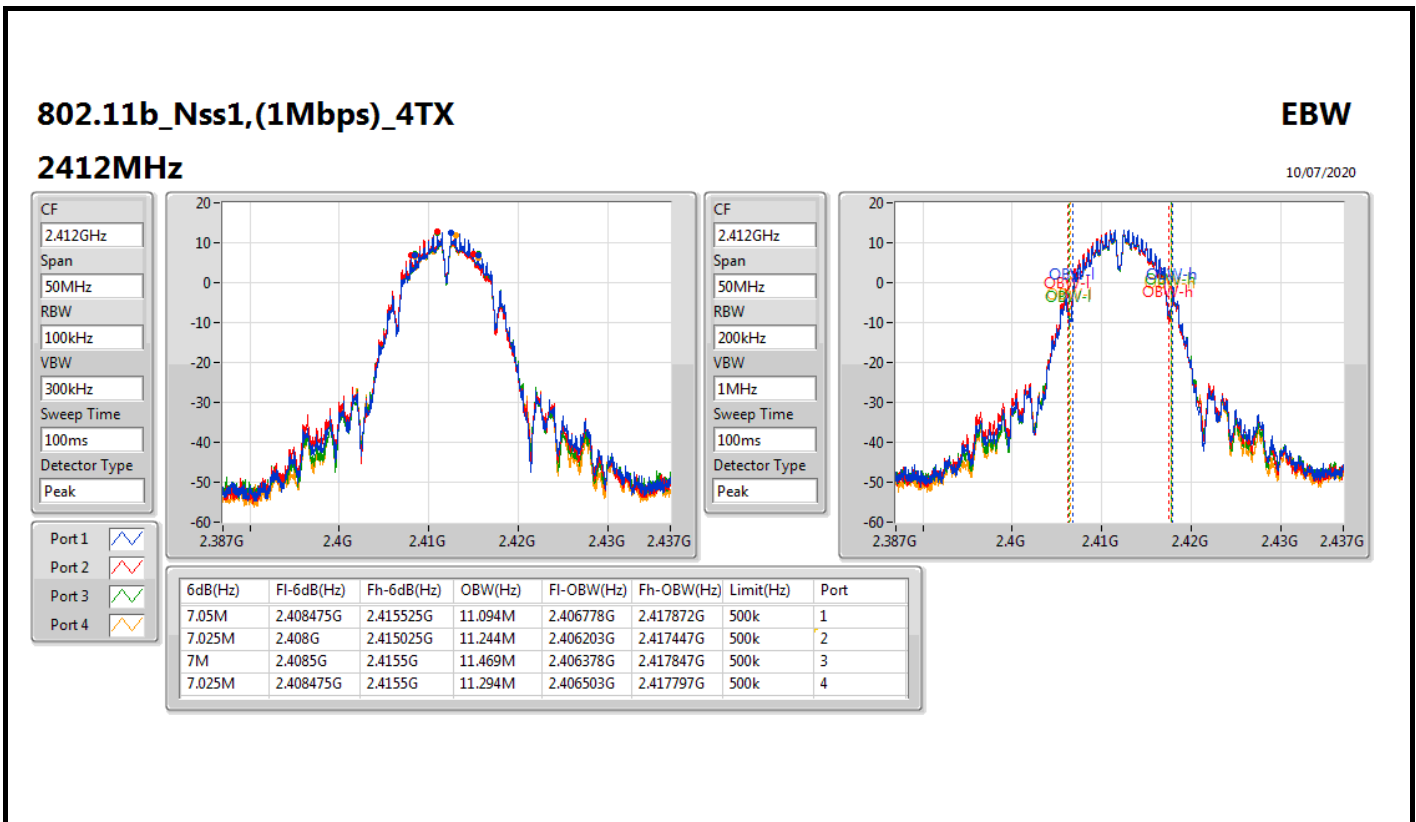
**Max-N dB** = Maximum 6dB down bandwidth; **Max-OBW** = Maximum 99% occupied bandwidth;  
**Min-N dB** = Minimum 6dB down bandwidth; **Min-OBW** = Minimum 99% occupied bandwidth;

**For EUT 2 / Radio 2 / External Ant.2\_Non-Beamforming Mode  
Result**

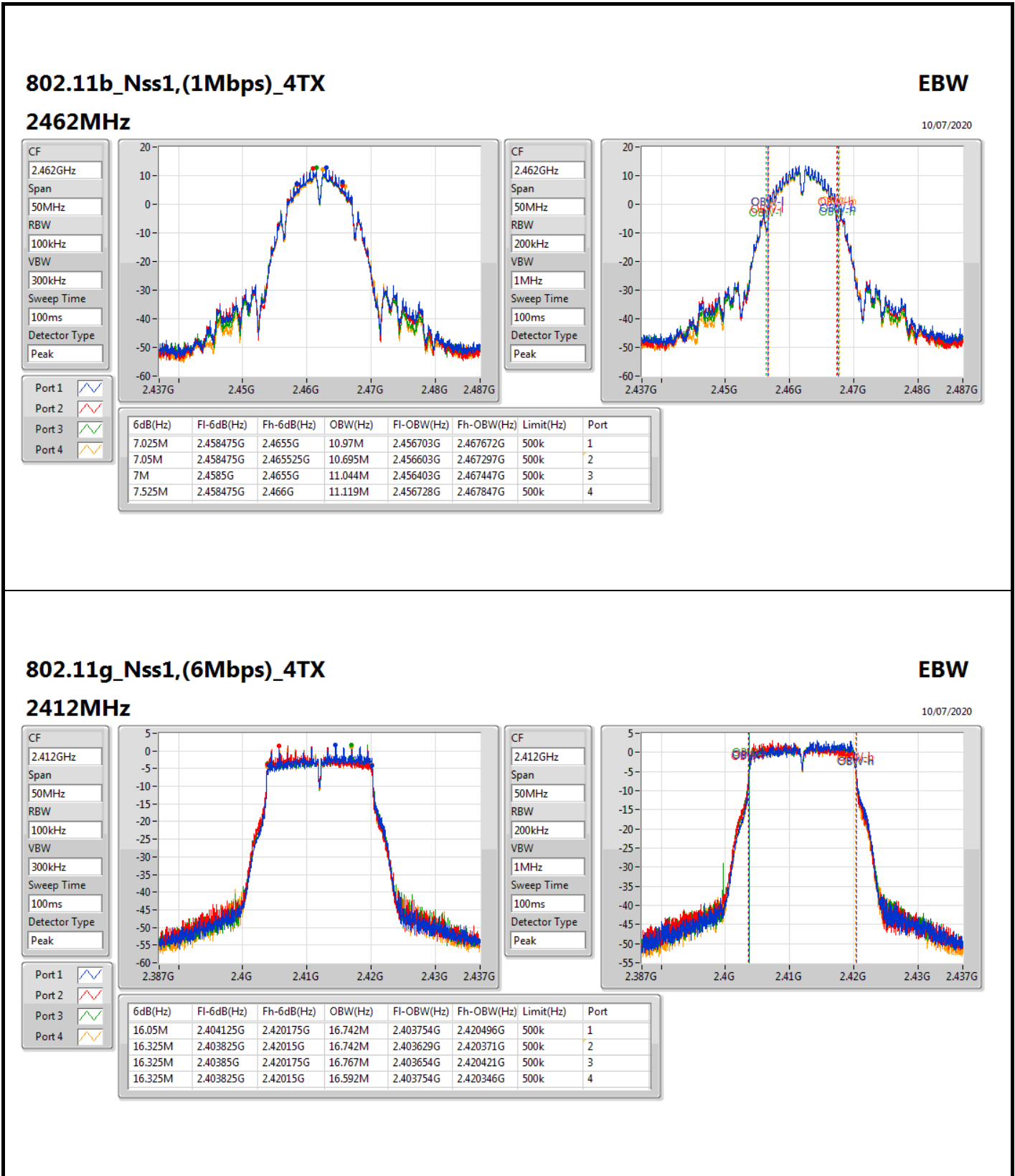
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11b_Nss1,(1Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	7.05M	11.094M	7.025M	11.244M	7M	11.469M	7.025M	11.294M
2437MHz	Pass	500k	7.55M	12.119M	7.05M	12.244M	6.525M	12.094M	7.05M	12.219M
2462MHz	Pass	500k	7.025M	10.97M	7.05M	10.695M	7M	11.044M	7.525M	11.119M
802.11g_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	16.05M	16.742M	16.325M	16.742M	16.325M	16.767M	16.325M	16.592M
2437MHz	Pass	500k	16.3M	16.992M	16.3M	17.091M	16.325M	16.967M	16.35M	17.016M
2462MHz	Pass	500k	16.325M	16.792M	16.325M	16.742M	16.325M	16.792M	16.325M	16.692M
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	18.5M	18.966M	18.8M	19.015M	18.625M	19.015M	18.425M	19.015M
2437MHz	Pass	500k	18.9M	19.04M	18.725M	19.09M	18.625M	19.015M	18.85M	19.14M
2462MHz	Pass	500k	18.85M	19.04M	18.65M	19.015M	18.875M	19.065M	18.2M	19.09M
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	500k	35.25M	37.331M	37.4M	37.531M	36.3M	37.431M	35.3M	37.331M
2437MHz	Pass	500k	36.45M	37.581M	37.15M	37.581M	35.4M	37.431M	37M	37.681M
2452MHz	Pass	500k	37.65M	37.631M	36.25M	37.431M	36.7M	37.531M	36.75M	37.631M

**Port X-N dB = Port X 6dB down bandwidth; Port X-OBW = Port X 99% occupied bandwidth;**

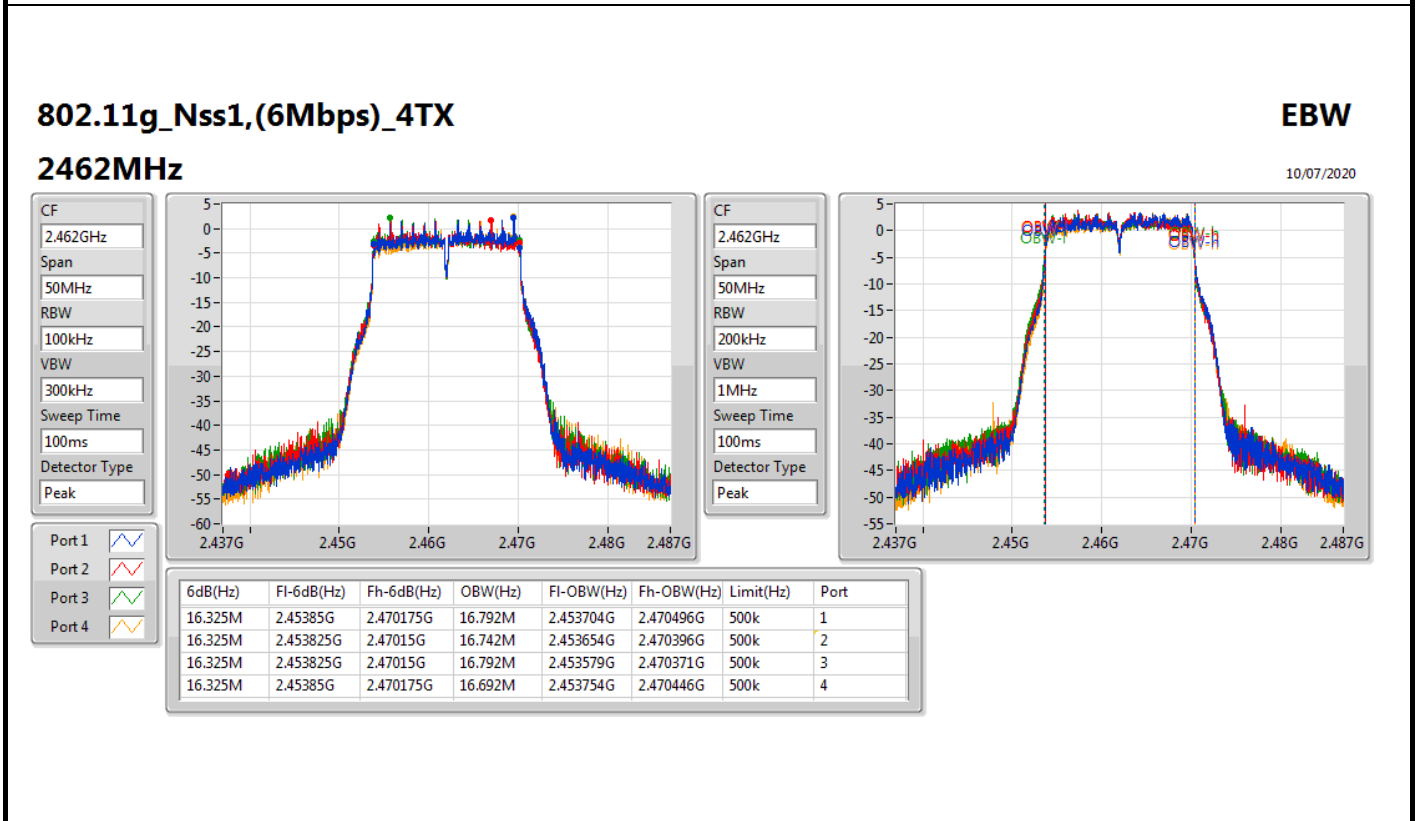
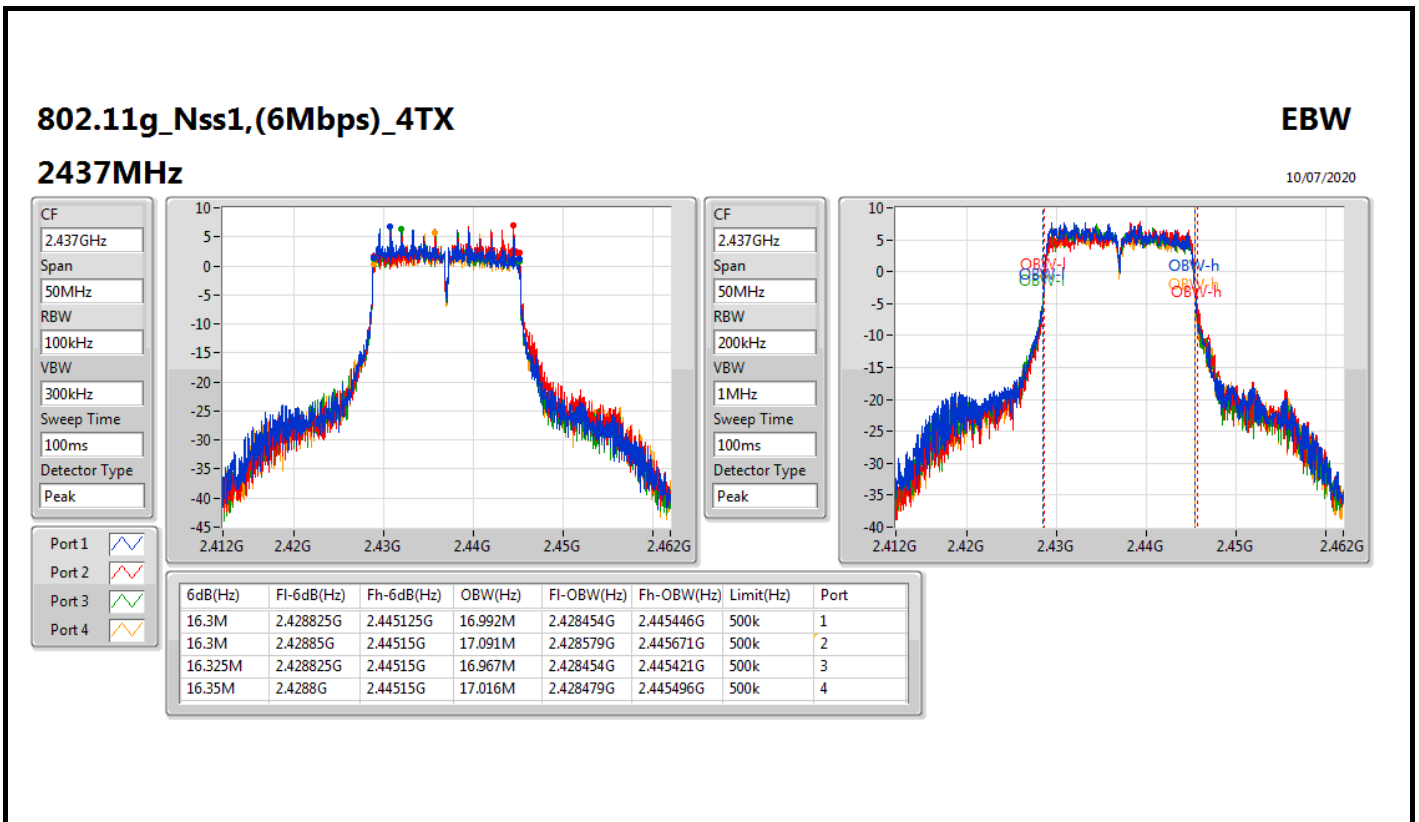
For EUT 2 / Radio 2 / External Ant.2\_Non-Beamforming Mode



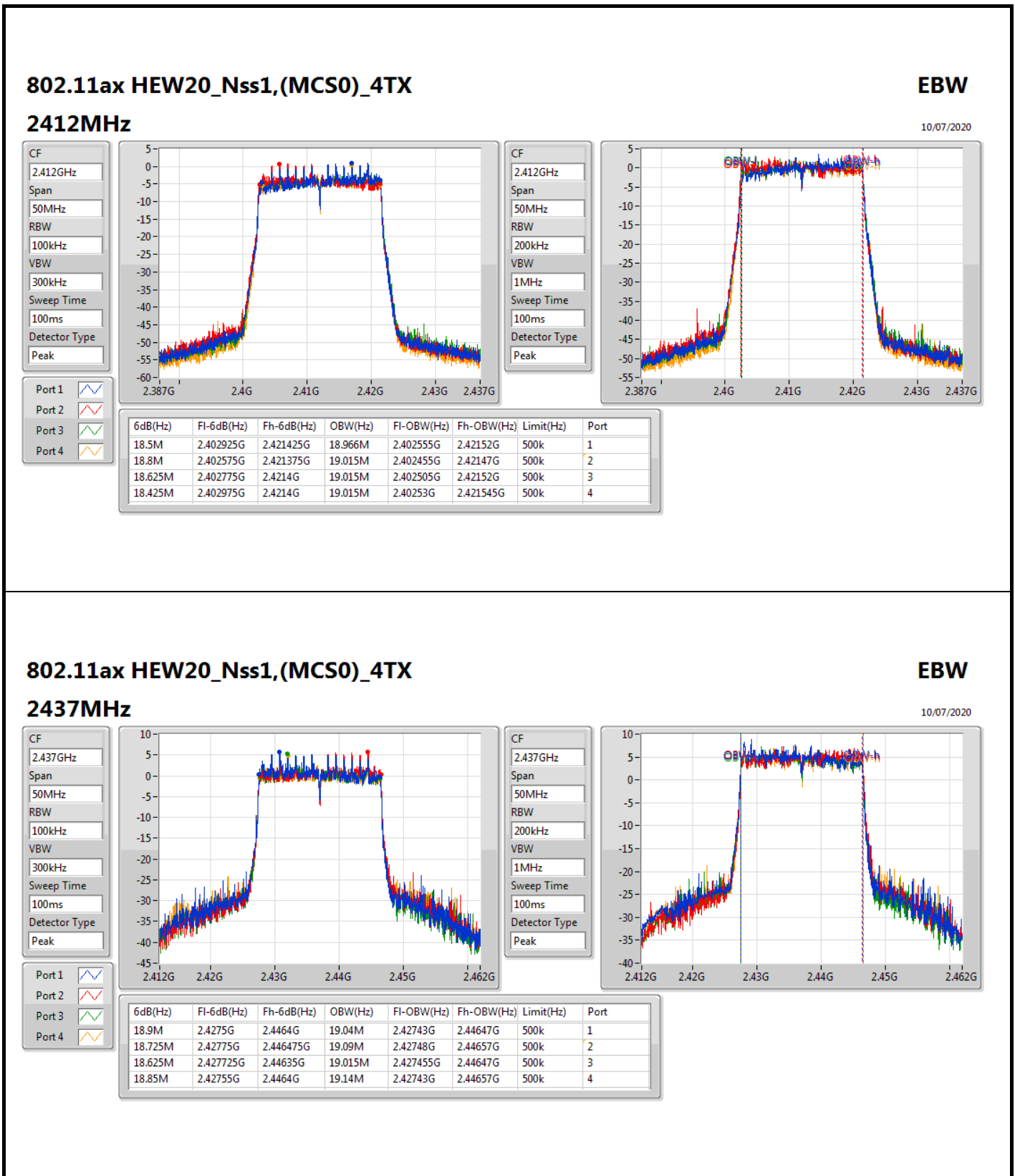
For EUT 2 / Radio 2 / External Ant.2\_Non-Beamforming Mode



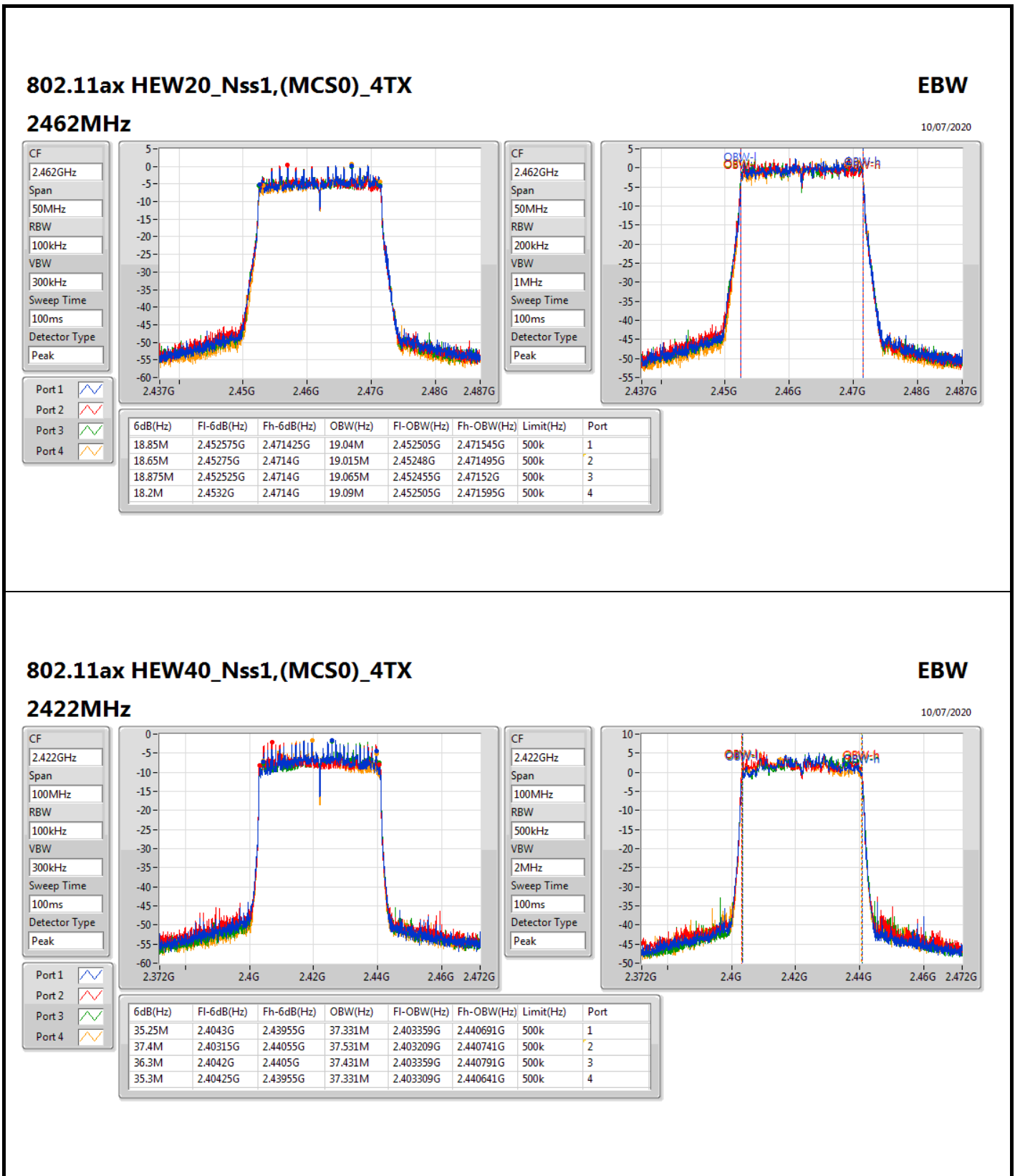
For EUT 2 / Radio 2 / External Ant.2\_Non-Beamforming Mode



For EUT 2 / Radio 2 / External Ant.2\_Non-Beamforming Mode



For EUT 2 / Radio 2 / External Ant.2\_Non-Beamforming Mode



### 802.11ax HEW40\_Nss1,(MCS0)\_4TX

#### 2422MHz

10/07/2020

EBW

CF: 2.422GHz

Span: 100MHz

RBW: 100kHz

VBW: 300kHz

Sweep Time: 100ms

Detector Type: Peak



CF: 2.422GHz

Span: 100MHz

RBW: 500kHz

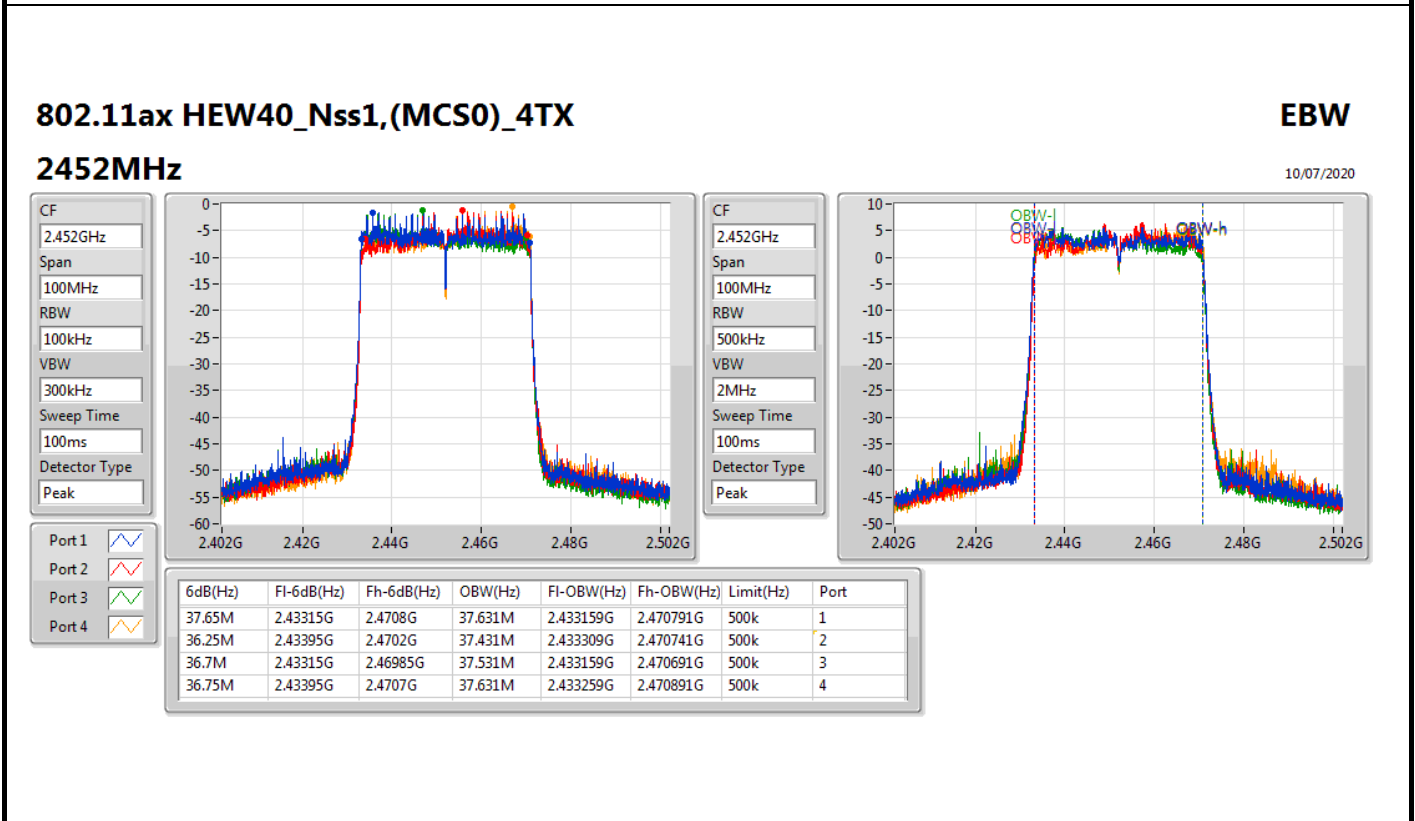
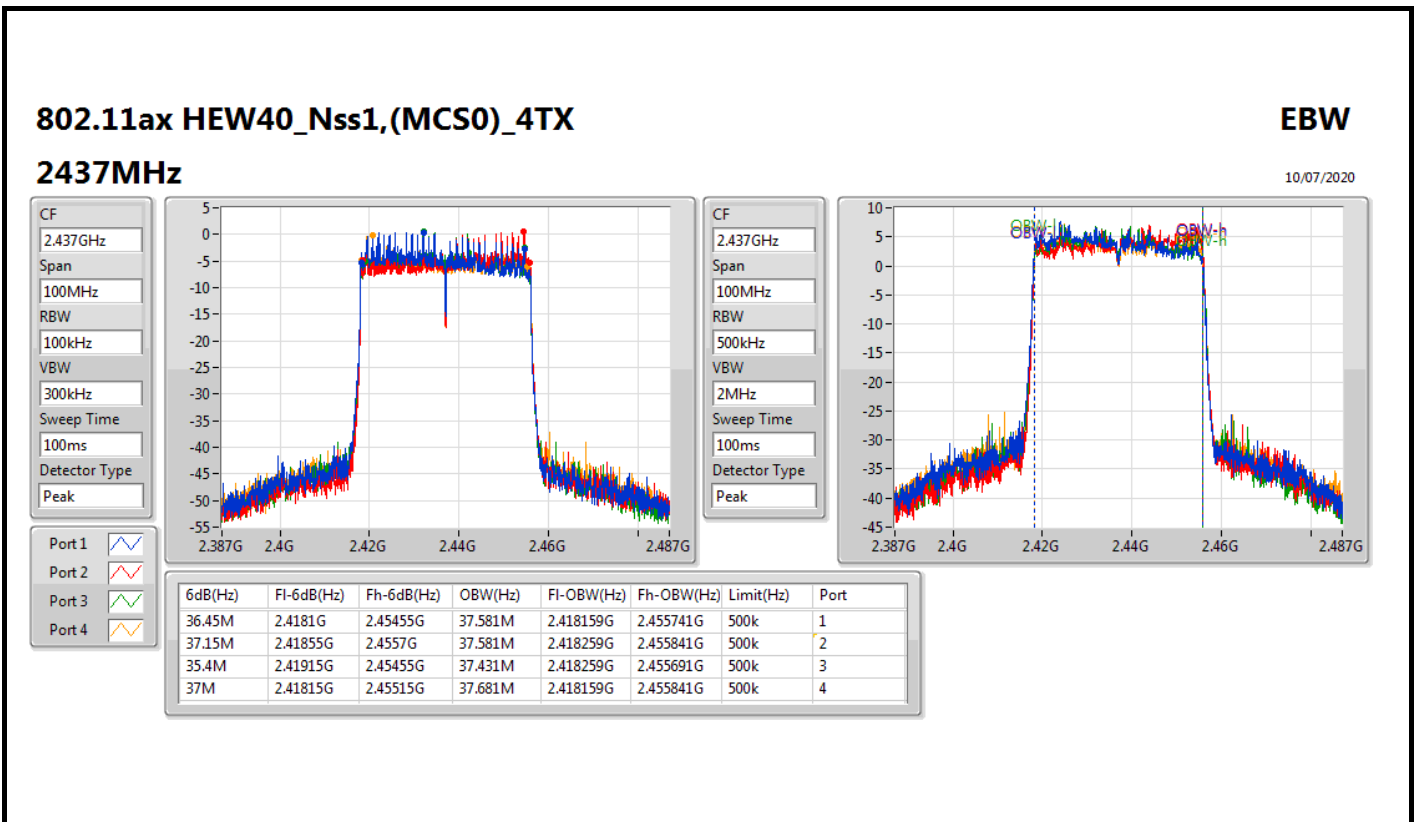
VBW: 2MHz

Sweep Time: 100ms

Detector Type: Peak



For EUT 2 / Radio 2 / External Ant.2\_Non-Beamforming Mode







**For EUT 2 / Radio 3 / External Ant.2\_Non-Beamforming Mode  
Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	8.525M	15.417M	15M4G1D	6.95M	11.619M
802.11g_Nss1,(6Mbps)_2TX	16.35M	21.614M	21M6D1D	15.975M	16.667M
802.11ax HEW20_Nss1,(MCS0)_2TX	18.975M	19.065M	19M1D1D	16.075M	17.441M
802.11ax HEW40_Nss1,(MCS0)_2TX	37.6M	37.681M	37M7D1D	35.95M	37.381M

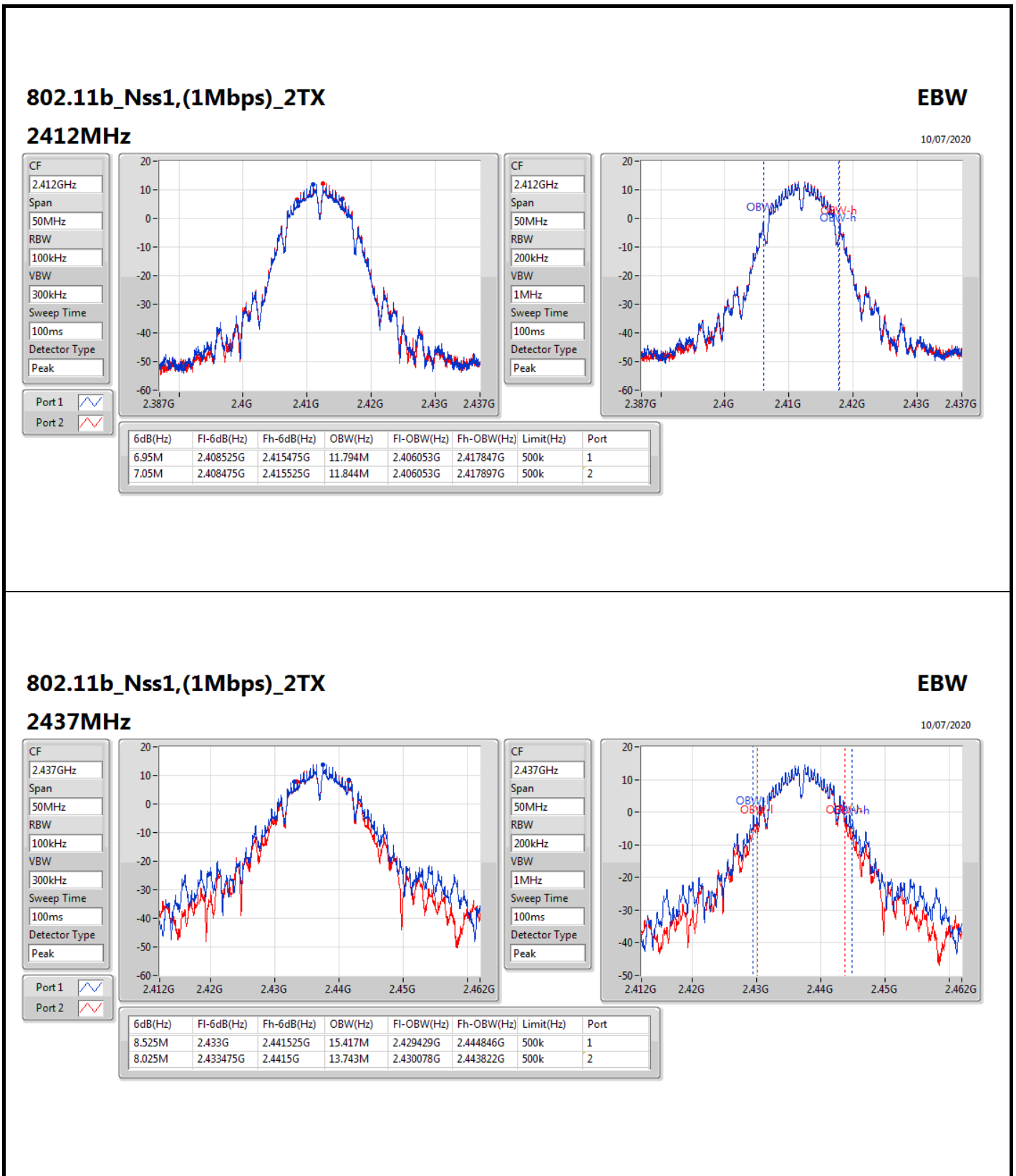
**Max-N dB** = Maximum 6dB down bandwidth; **Max-OBW** = Maximum 99% occupied bandwidth;  
**Min-N dB** = Minimum 6dB down bandwidth; **Min-OBW** = Minimum 99% occupied bandwidth;

**For EUT 2 / Radio 3 / External Ant.2\_Non-Beamforming Mode  
Result**

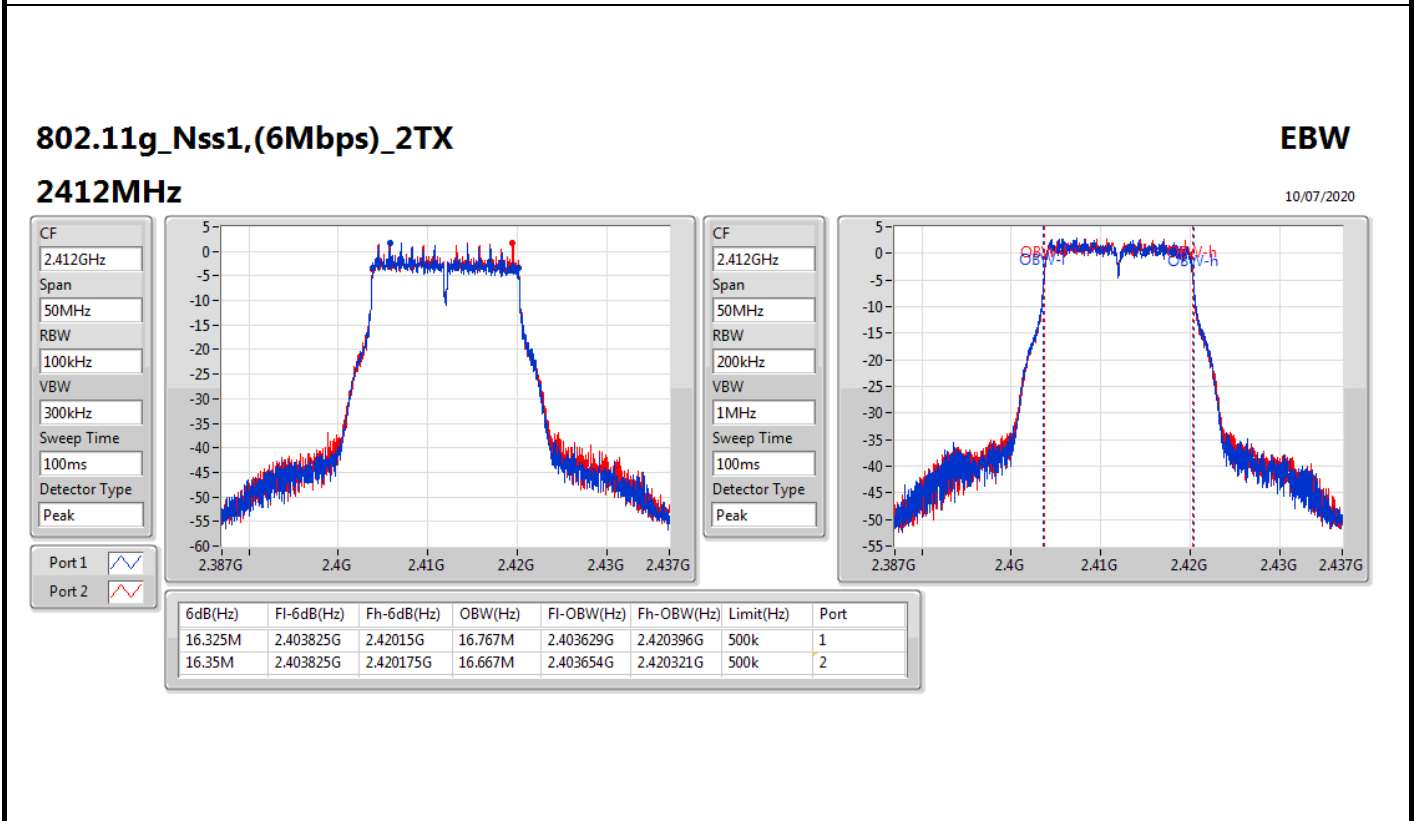
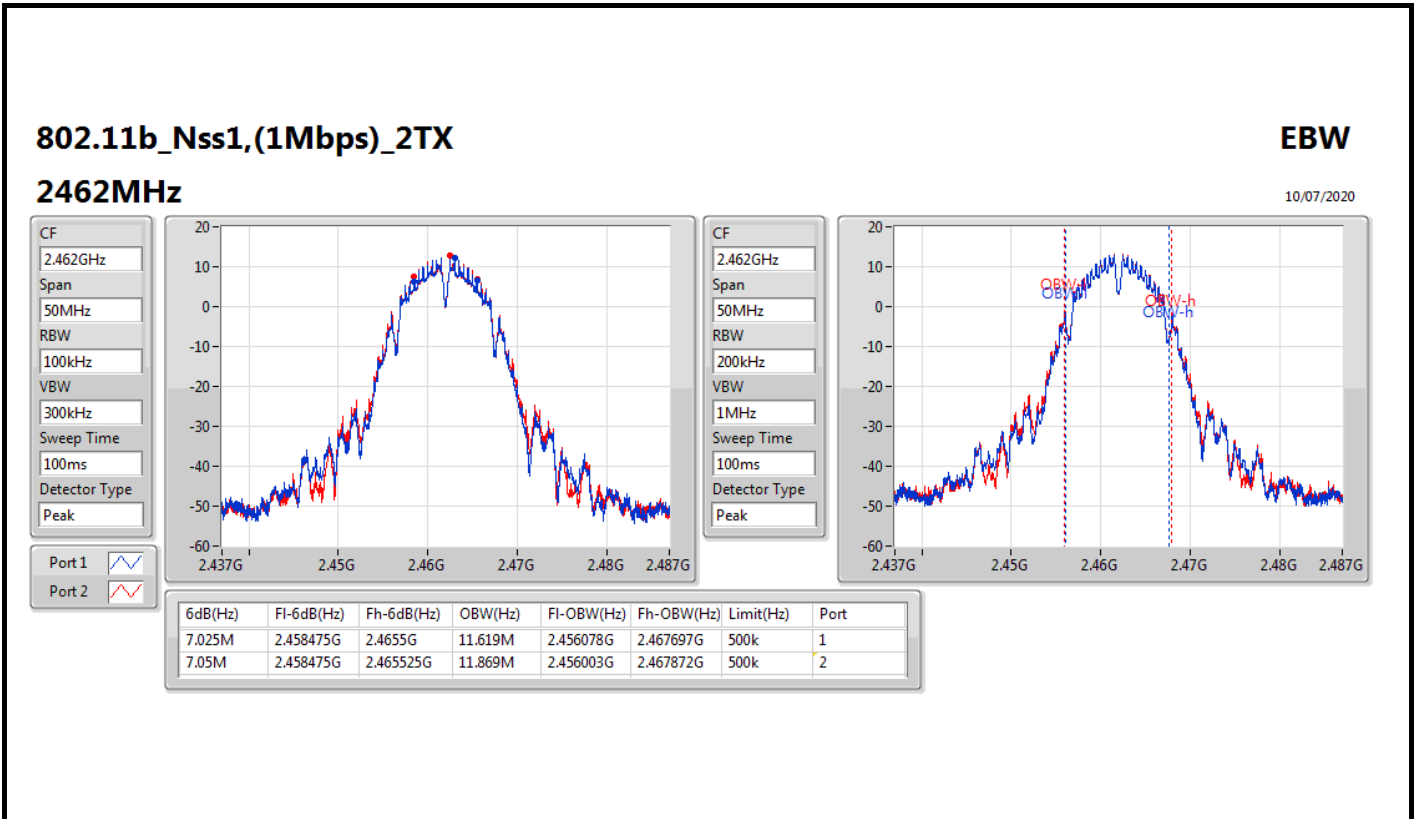
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	6.95M	11.794M	7.05M	11.844M
2437MHz	Pass	500k	8.525M	15.417M	8.025M	13.743M
2462MHz	Pass	500k	7.025M	11.619M	7.05M	11.869M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	16.325M	16.767M	16.35M	16.667M
2437MHz	Pass	500k	15.975M	21.614M	16.3M	21.114M
2462MHz	Pass	500k	16.325M	16.717M	16.325M	16.667M
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	18.975M	19.04M	18.95M	19.065M
2437MHz	Pass	500k	16.075M	17.591M	16.35M	17.441M
2462MHz	Pass	500k	18.925M	19.015M	18.95M	19.065M
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	37.6M	37.681M	36.8M	37.531M
2437MHz	Pass	500k	37.55M	37.481M	35.95M	37.431M
2452MHz	Pass	500k	36.9M	37.381M	36.05M	37.481M

**Port X-N dB = Port X 6dB down bandwidth; Port X-OBW = Port X 99% occupied bandwidth;**

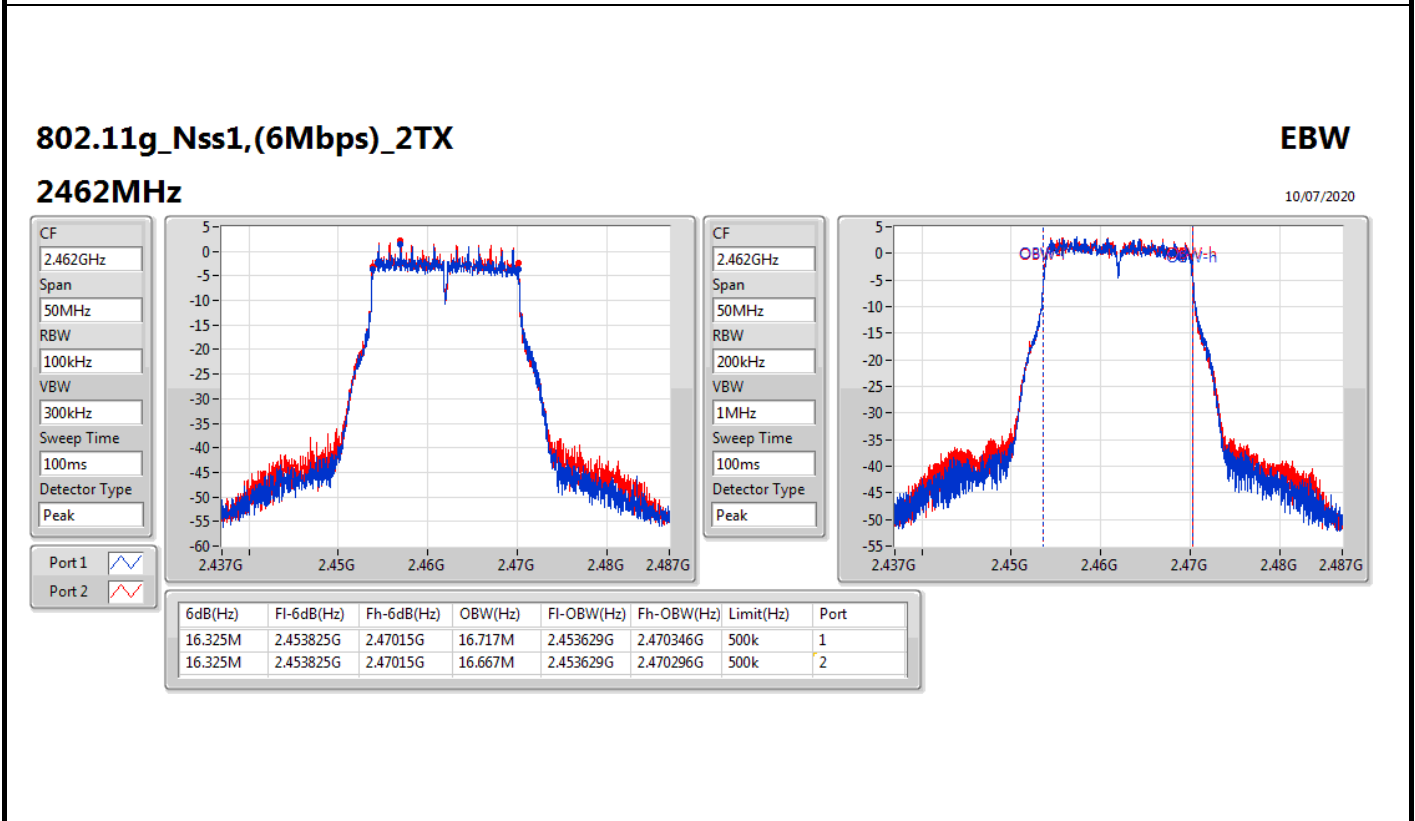
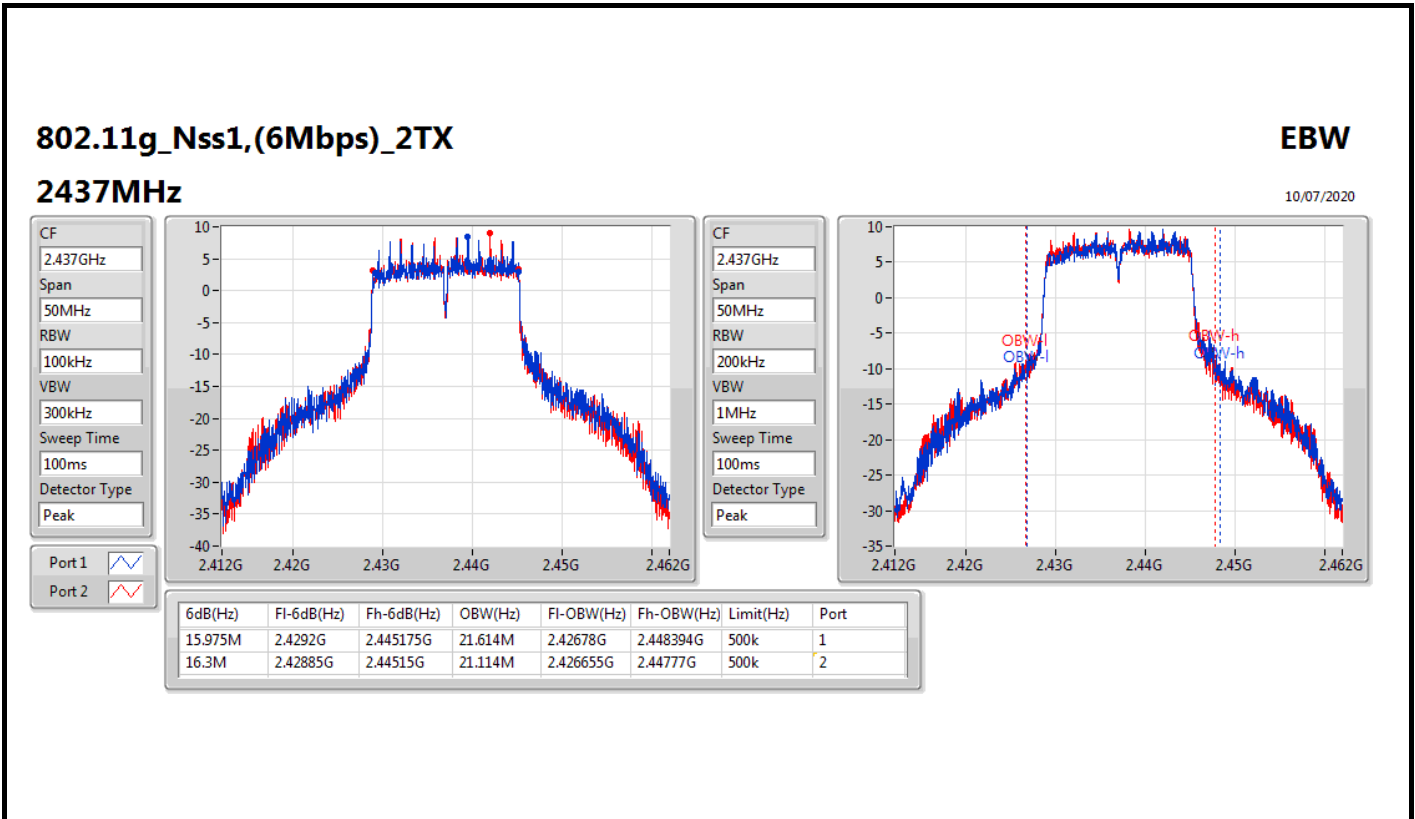
For EUT 2 / Radio 3 / External Ant.2\_Non-Beamforming Mode



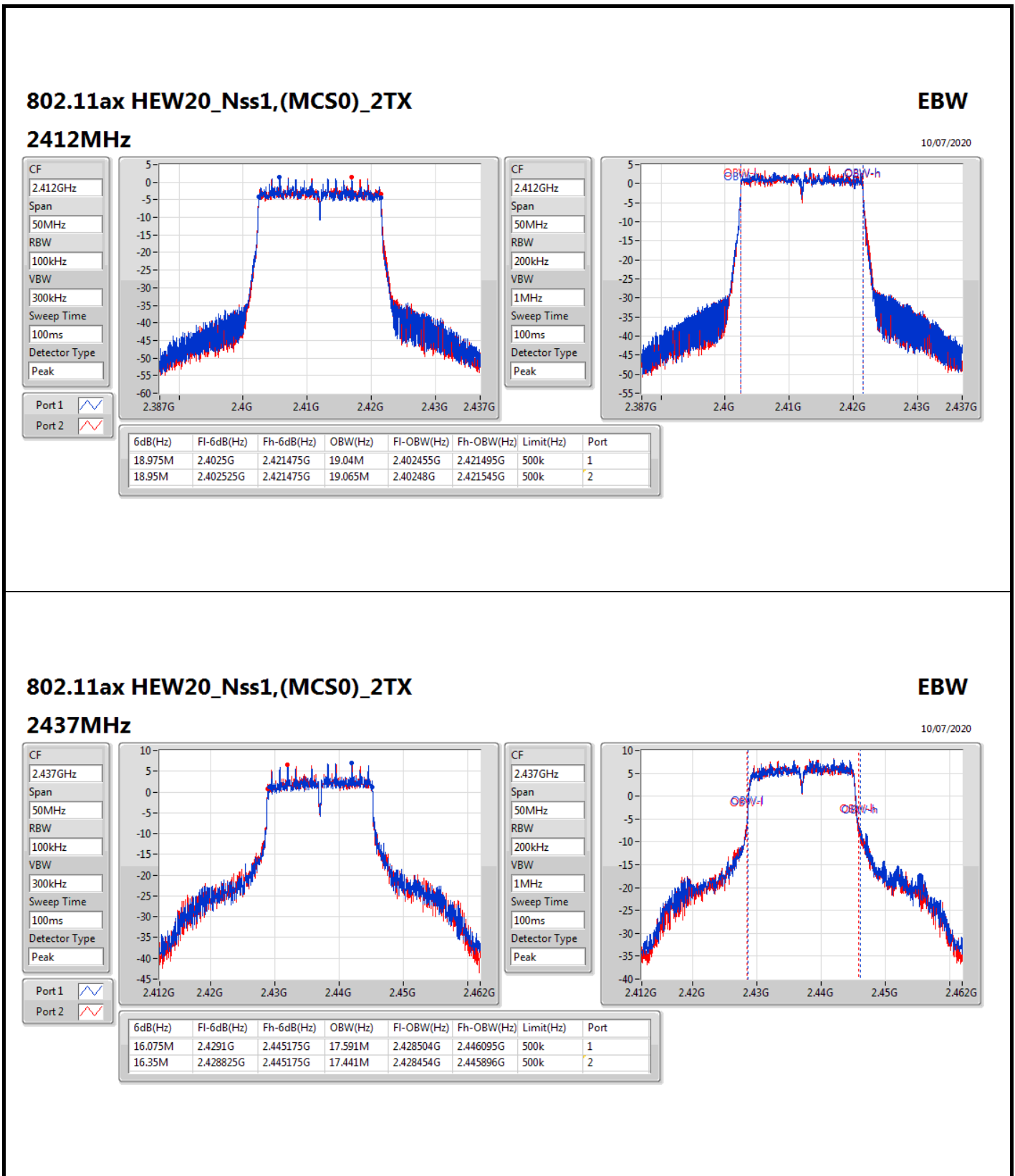
For EUT 2 / Radio 3 / External Ant.2\_Non-Beamforming Mode



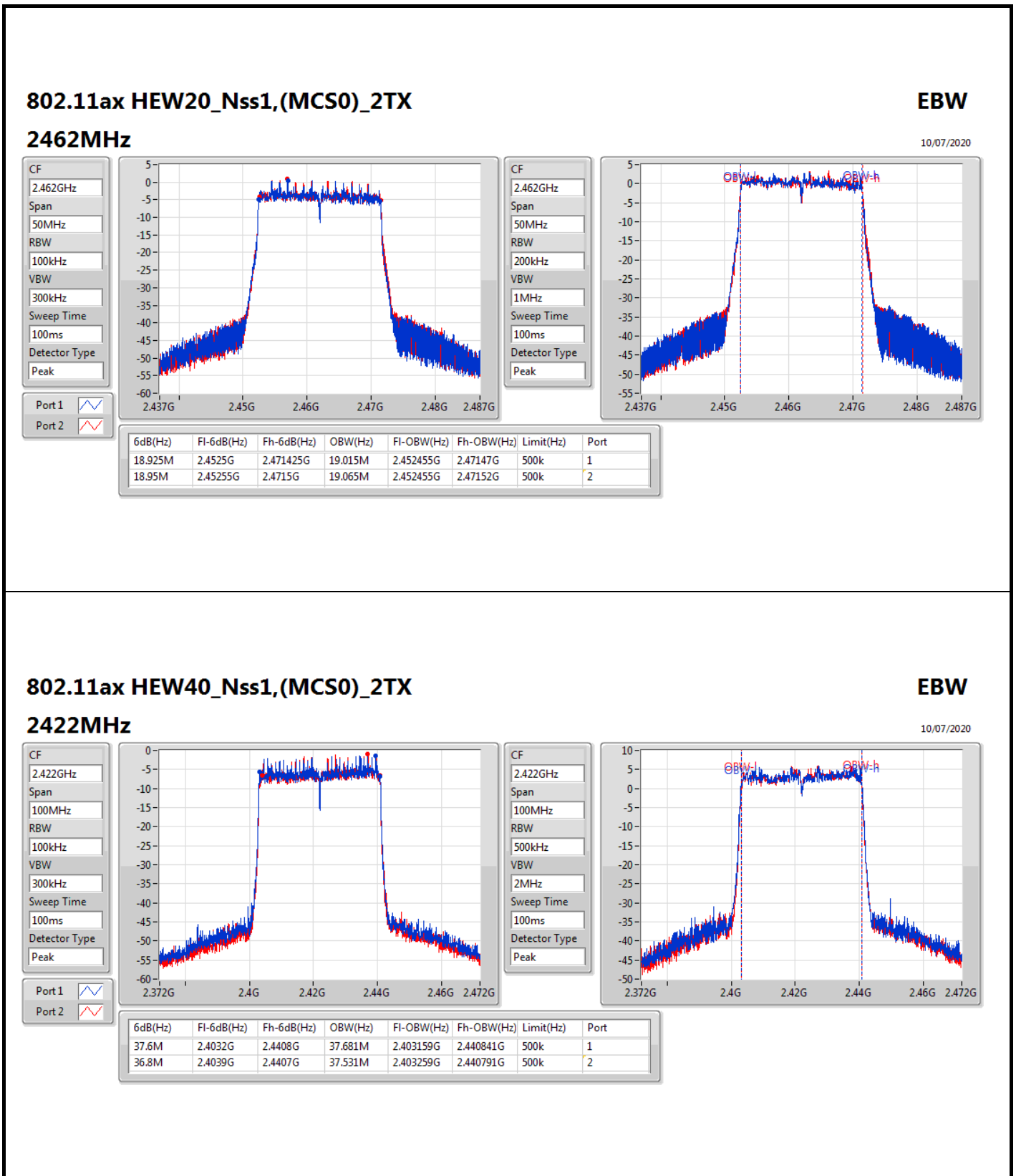
For EUT 2 / Radio 3 / External Ant.2\_Non-Beamforming Mode



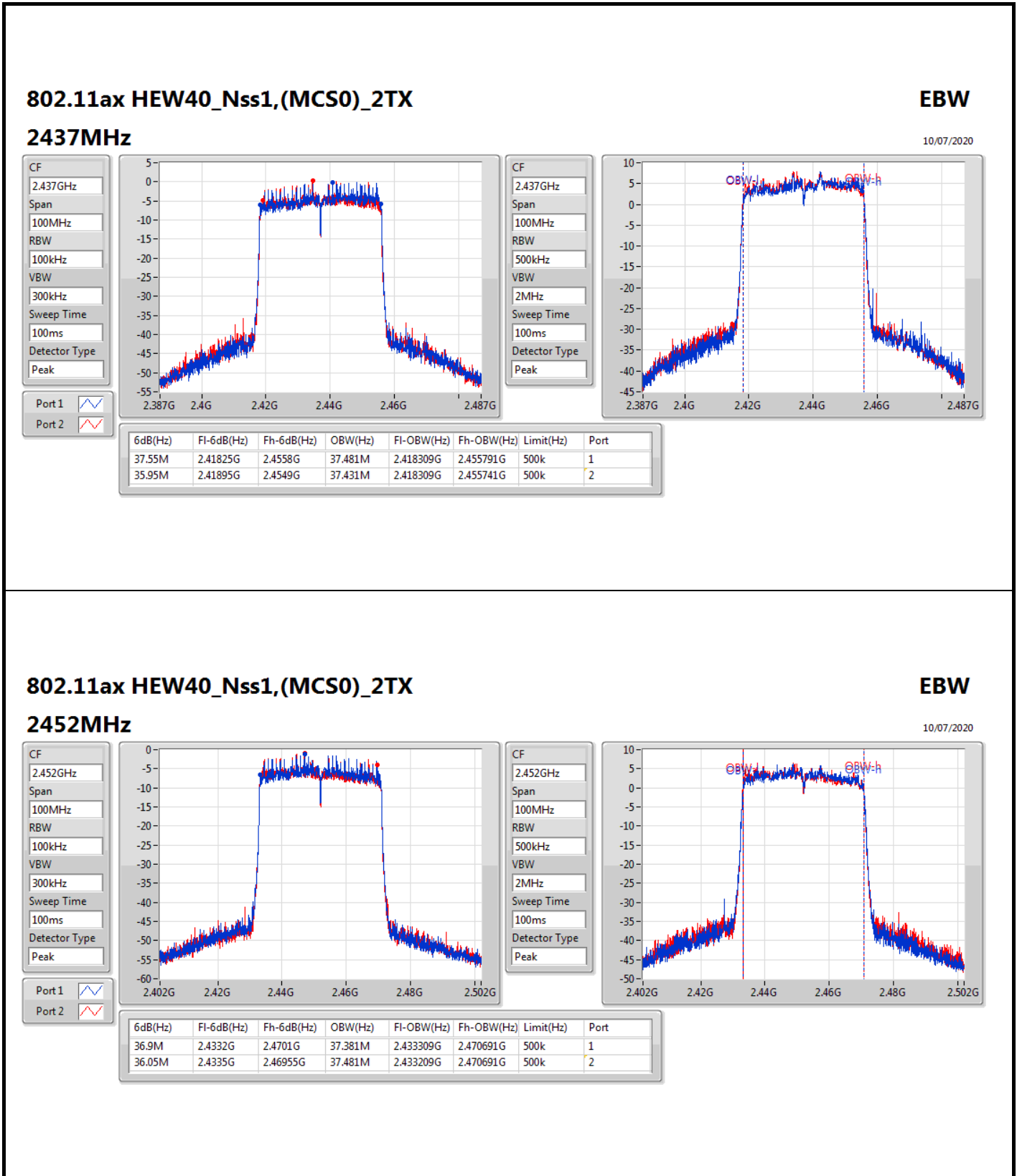
For EUT 2 / Radio 3 / External Ant.2\_Non-Beamforming Mode



For EUT 2 / Radio 3 / External Ant.2\_Non-Beamforming Mode



For EUT 2 / Radio 3 / External Ant.2\_Non-Beamforming Mode







**For EUT 1 / Radio 2\_Non-Beamforming Mode  
Summary**

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_4TX	28.96	0.78705
802.11g_Nss1,(6Mbps)_4TX	26.21	0.41783
802.11ax HEW20_Nss1,(MCS0)_4TX	25.71	0.37239
802.11ax HEW40_Nss1,(MCS0)_4TX	22.73	0.18750



For EUT 1 / Radio 2\_Non-Beamforming Mode  
Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	4.00	22.47	22.67	22.10	21.81	28.30	30.00
2437MHz	Pass	4.00	23.00	23.47	22.82	22.39	28.96	30.00
2462MHz	Pass	4.00	21.53	21.57	21.15	20.62	27.25	30.00
802.11g_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	4.00	16.25	16.58	16.41	16.21	22.39	30.00
2417MHz	Pass	4.00	18.01	18.01	17.82	17.78	23.93	30.00
2437MHz	Pass	4.00	20.13	20.46	20.09	20.07	26.21	30.00
2457MHz	Pass	4.00	16.46	16.32	16.3	16.04	22.30	30.00
2462MHz	Pass	4.00	15.04	15.25	15.14	14.98	21.12	30.00
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	4.00	15.64	15.44	15.3	15.14	21.40	30.00
2417MHz	Pass	4.00	17.84	17.94	17.65	17.61	23.78	30.00
2437MHz	Pass	4.00	19.82	19.86	19.57	19.50	25.71	30.00
2457MHz	Pass	4.00	16.24	16.26	16.33	16.2	22.28	30.00
2462MHz	Pass	4.00	13.32	13.28	12.96	12.95	19.15	30.00
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2422MHz	Pass	4.00	15.64	15.65	15.69	15.56	21.66	30.00
2437MHz	Pass	4.00	16.72	16.77	16.8	16.53	22.73	30.00
2452MHz	Pass	4.00	15.33	15.38	15.46	15.22	21.37	30.00

DG = Directional Gain; Port X = Port X output power



**For EUT 1 / Radio 2\_Beamforming Mode  
Summary**

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	25.71	0.37239
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	22.73	0.18750



For EUT 1 / Radio 2\_Beamforming Mode  
Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	10.02	15.64	15.44	15.3	15.14	21.40	25.98
2417MHz	Pass	10.02	17.84	17.94	17.65	17.61	23.78	25.98
2437MHz	Pass	10.02	19.82	19.86	19.57	19.5	25.71	25.98
2457MHz	Pass	10.02	16.24	16.26	16.33	16.2	22.28	25.98
2462MHz	Pass	10.02	13.32	13.28	12.96	12.95	19.15	25.98
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2422MHz	Pass	10.02	15.64	15.65	15.69	15.56	21.66	25.98
2437MHz	Pass	10.02	16.72	16.77	16.8	16.53	22.73	25.98
2452MHz	Pass	10.02	15.33	15.38	15.46	15.22	21.37	25.98

DG = Directional Gain; Port X = Port X output power



**For EUT 1 / Radio 3\_Non-Beamforming Mode  
Summary**

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	25.57	0.36058
802.11g_Nss1,(6Mbps)_2TX	23.59	0.22856
802.11ax HEW20_Nss1,(MCS0)_2TX	23.45	0.22131
802.11ax HEW40_Nss1,(MCS0)_2TX	19.54	0.08995



**For EUT 1 / Radio 3\_Non-Beamforming Mode  
Result**

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	2.30	21.39	21.46	24.44	30.00
2437MHz	Pass	2.30	22.61	22.50	25.57	30.00
2462MHz	Pass	2.30	21.56	21.25	24.42	30.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	2.30	15.72	15.96	18.85	30.00
2417MHz	Pass	2.30	18.24	18.47	21.37	30.00
2437MHz	Pass	2.30	20.45	20.71	23.59	30.00
2457MHz	Pass	2.30	16.58	16.86	19.73	30.00
2462MHz	Pass	2.30	15.00	15.21	18.12	30.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	2.30	16.73	16.70	19.73	30.00
2417MHz	Pass	2.30	17.75	17.86	20.82	30.00
2437MHz	Pass	2.30	20.35	20.53	23.45	30.00
2457MHz	Pass	2.30	15.88	16.15	19.03	30.00
2462MHz	Pass	2.30	13.04	13.16	16.11	30.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	2.30	15.42	15.66	18.55	30.00
2437MHz	Pass	2.30	16.48	16.57	19.54	30.00
2452MHz	Pass	2.30	14.73	14.66	17.71	30.00

**DG** = Directional Gain; **Port X** = Port X output power



**For EUT 2 / Radio 2 / External Ant.1\_Non-Beamforming Mode  
Summary**

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_4TX	28.60	0.72444
802.11g_Nss1,(6Mbps)_4TX	25.92	0.39084
802.11ax HEW20_Nss1,(MCS0)_4TX	25.96	0.39446
802.11ax HEW40_Nss1,(MCS0)_4TX	22.06	0.16069



For EUT 2 / Radio 2 / External Ant.1\_Non-Beamforming Mode  
Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	4.00	21.18	21.15	21.00	20.74	27.04	30.00
2437MHz	Pass	4.00	22.76	23.04	22.51	21.95	28.60	30.00
2462MHz	Pass	4.00	20.93	20.90	20.79	20.42	26.79	30.00
802.11g_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	4.00	15.09	14.88	14.62	14.83	20.88	30.00
2417MHz	Pass	4.00	17.36	17.25	17.24	17.03	23.24	30.00
2437MHz	Pass	4.00	20.13	20.11	19.69	19.66	25.92	30.00
2457MHz	Pass	4.00	16.37	16.21	16.33	16.22	22.30	30.00
2462MHz	Pass	4.00	14.08	14.32	14.13	13.82	20.11	30.00
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	4.00	13.63	13.75	13.70	13.41	19.65	30.00
2417MHz	Pass	4.00	16.56	16.70	16.46	16.25	22.52	30.00
2437MHz	Pass	4.00	20.20	20.13	19.71	19.69	25.96	30.00
2457MHz	Pass	4.00	13.86	13.90	13.92	13.52	19.82	30.00
2462MHz	Pass	4.00	12.54	12.19	12.09	12.06	18.24	30.00
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2422MHz	Pass	4.00	14.18	13.92	14.15	14.02	20.09	30.00
2437MHz	Pass	4.00	16.11	16.20	15.94	15.92	22.06	30.00
2452MHz	Pass	4.00	14.29	14.22	14.20	13.96	20.19	30.00

DG = Directional Gain; Port X = Port X output power





**For EUT 2 / Radio 2 / External Ant.1\_Beamforming Mode  
Summary**

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	25.96	0.39446
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	22.06	0.16069



**For EUT 2 / Radio 2 / External Ant.1\_Beamforming Mode  
Result**

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	10.02	13.63	13.75	13.7	13.41	19.65	25.98
2417MHz	Pass	10.02	16.56	16.7	16.46	16.25	22.52	25.98
2437MHz	Pass	10.02	20.2	20.13	19.71	19.69	25.96	25.98
2457MHz	Pass	10.02	13.86	13.9	13.92	13.52	19.82	25.98
2462MHz	Pass	10.02	12.54	12.19	12.09	12.06	18.24	25.98
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2422MHz	Pass	10.02	14.18	13.92	14.15	14.02	20.09	25.98
2437MHz	Pass	10.02	16.11	16.2	15.94	15.92	22.06	25.98
2452MHz	Pass	10.02	14.29	14.22	14.2	13.96	20.19	25.98

**DG** = Directional Gain; **Port X** = Port X output power



**For EUT 2 / Radio 3 / External Ant.1\_Non-Beamforming Mode  
Summary**

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	25.06	0.32063
802.11g_Nss1,(6Mbps)_2TX	23.12	0.20512
802.11ax HEW20_Nss1,(MCS0)_2TX	23.19	0.20845
802.11ax HEW40_Nss1,(MCS0)_2TX	19.23	0.08375



For EUT 2 / Radio 3 / External Ant.1\_Non-Beamforming Mode  
Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.00	20.35	20.61	23.49	30.00
2437MHz	Pass	4.00	21.86	22.23	25.06	30.00
2462MHz	Pass	4.00	20.64	20.54	23.60	30.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.00	14.73	14.95	17.85	30.00
2417MHz	Pass	4.00	17.18	17.51	20.36	30.00
2437MHz	Pass	4.00	20.08	20.14	23.12	30.00
2457MHz	Pass	4.00	16.75	17.00	19.89	30.00
2462MHz	Pass	4.00	15.12	15.09	18.12	30.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.00	14.77	14.80	17.80	30.00
2417MHz	Pass	4.00	16.92	17.15	20.05	30.00
2437MHz	Pass	4.00	20.18	20.18	23.19	30.00
2457MHz	Pass	4.00	16.54	16.25	19.41	30.00
2462MHz	Pass	4.00	13.92	14.14	17.04	30.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	4.00	14.84	15.00	17.93	30.00
2437MHz	Pass	4.00	16.18	16.25	19.23	30.00
2452MHz	Pass	4.00	14.72	14.96	17.85	30.00

DG = Directional Gain; Port X = Port X output power



**For EUT 2 / Radio 2 / External Ant.2\_Non-Beamforming Mode  
Summary**

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_4TX	27.82	0.60534
802.11g_Nss1,(6Mbps)_4TX	24.04	0.25351
802.11ax HEW20_Nss1,(MCS0)_4TX	23.09	0.20370
802.11ax HEW40_Nss1,(MCS0)_4TX	20.49	0.11194



For EUT 2 / Radio 2 / External Ant.2\_Non-Beamforming Mode  
Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	8.00	20.70	20.82	20.38	20.29	26.57	28.00
2437MHz	Pass	8.00	22.05	22.14	21.61	21.35	27.82	28.00
2462MHz	Pass	8.00	20.84	20.79	20.49	20.24	26.62	28.00
802.11g_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	8.00	13.21	13.27	13.17	13.00	19.18	28.00
2417MHz	Pass	8.00	14.23	14.15	14.05	14.03	20.14	28.00
2437MHz	Pass	8.00	18.12	18.24	17.98	17.70	24.04	28.00
2457MHz	Pass	8.00	14.65	14.65	14.52	14.46	20.59	28.00
2462MHz	Pass	8.00	13.92	13.88	13.97	13.67	19.88	28.00
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	8.00	12.39	12.47	12.43	12.06	18.36	28.00
2417MHz	Pass	8.00	15.19	14.98	14.91	14.75	20.98	28.00
2437MHz	Pass	8.00	17.21	17.24	16.96	16.86	23.09	28.00
2457MHz	Pass	8.00	12.87	12.91	12.96	12.64	18.87	28.00
2462MHz	Pass	8.00	11.96	11.92	11.89	11.69	17.89	28.00
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2422MHz	Pass	8.00	12.40	12.45	12.39	12.24	18.39	28.00
2437MHz	Pass	8.00	14.55	14.57	14.45	14.29	20.49	28.00
2452MHz	Pass	8.00	13.27	13.24	13.02	13.14	19.19	28.00

DG = Directional Gain; Port X = Port X output power



**For EUT 2 / Radio 2 / External Ant.2\_Beamforming Mode  
Summary**

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	21.74	0.14928
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	20.49	0.11194



**For EUT 2 / Radio 2 / External Ant.2\_Beamforming Mode  
Result**

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	14.02	12.39	12.47	12.43	12.06	18.36	21.98
2417MHz	Pass	14.02	15.19	14.98	14.91	14.75	20.98	21.98
2437MHz	Pass	14.02	15.96	15.82	15.50	15.58	21.74	21.98
2457MHz	Pass	14.02	12.87	12.91	12.96	12.64	18.87	21.98
2462MHz	Pass	14.02	11.96	11.92	11.89	11.69	17.89	21.98
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2422MHz	Pass	14.02	12.4	12.45	12.39	12.24	18.39	21.98
2437MHz	Pass	14.02	14.55	14.57	14.45	14.29	20.49	21.98
2452MHz	Pass	14.02	13.27	13.24	13.02	13.14	19.19	21.98

**DG** = Directional Gain; **Port X** = Port X output power





**For EUT 2 / Radio 3 / External Ant.2\_Non-Beamforming Mode  
Summary**

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	25.10	0.32359
802.11g_Nss1,(6Mbps)_2TX	22.58	0.18113
802.11ax HEW20_Nss1,(MCS0)_2TX	21.20	0.13183
802.11ax HEW40_Nss1,(MCS0)_2TX	17.53	0.05662



For EUT 2 / Radio 3 / External Ant.2\_Non-Beamforming Mode  
Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	8.00	20.01	20.28	23.16	28.00
2437MHz	Pass	8.00	22.15	22.03	25.10	28.00
2462MHz	Pass	8.00	20.27	20.25	23.27	28.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	8.00	13.30	13.67	16.50	28.00
2417MHz	Pass	8.00	15.63	15.83	18.74	28.00
2437MHz	Pass	8.00	19.51	19.63	22.58	28.00
2457MHz	Pass	8.00	15.65	15.64	18.66	28.00
2462MHz	Pass	8.00	13.29	13.55	16.43	28.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	8.00	13.25	13.39	16.33	28.00
2417MHz	Pass	8.00	15.91	15.93	18.93	28.00
2437MHz	Pass	8.00	18.07	18.31	21.20	28.00
2457MHz	Pass	8.00	15.11	15.08	18.11	28.00
2462MHz	Pass	8.00	12.48	12.61	15.56	28.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	8.00	13.34	13.29	16.33	28.00
2437MHz	Pass	8.00	14.44	14.60	17.53	28.00
2452MHz	Pass	8.00	13.13	13.12	16.14	28.00

DG = Directional Gain; Port X = Port X output power



**For EUT 1 / Radio 2\_Non-Beamforming Mode  
Summary**

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_4TX	3.84
802.11g_Nss1,(6Mbps)_4TX	0.78
802.11ax HEW20_Nss1,(MCS0)_4TX	1.08
802.11ax HEW40_Nss1,(MCS0)_4TX	-6.32

RBW = 500 kHz for 5.725-5.85GHz band / 1MHz for other band;

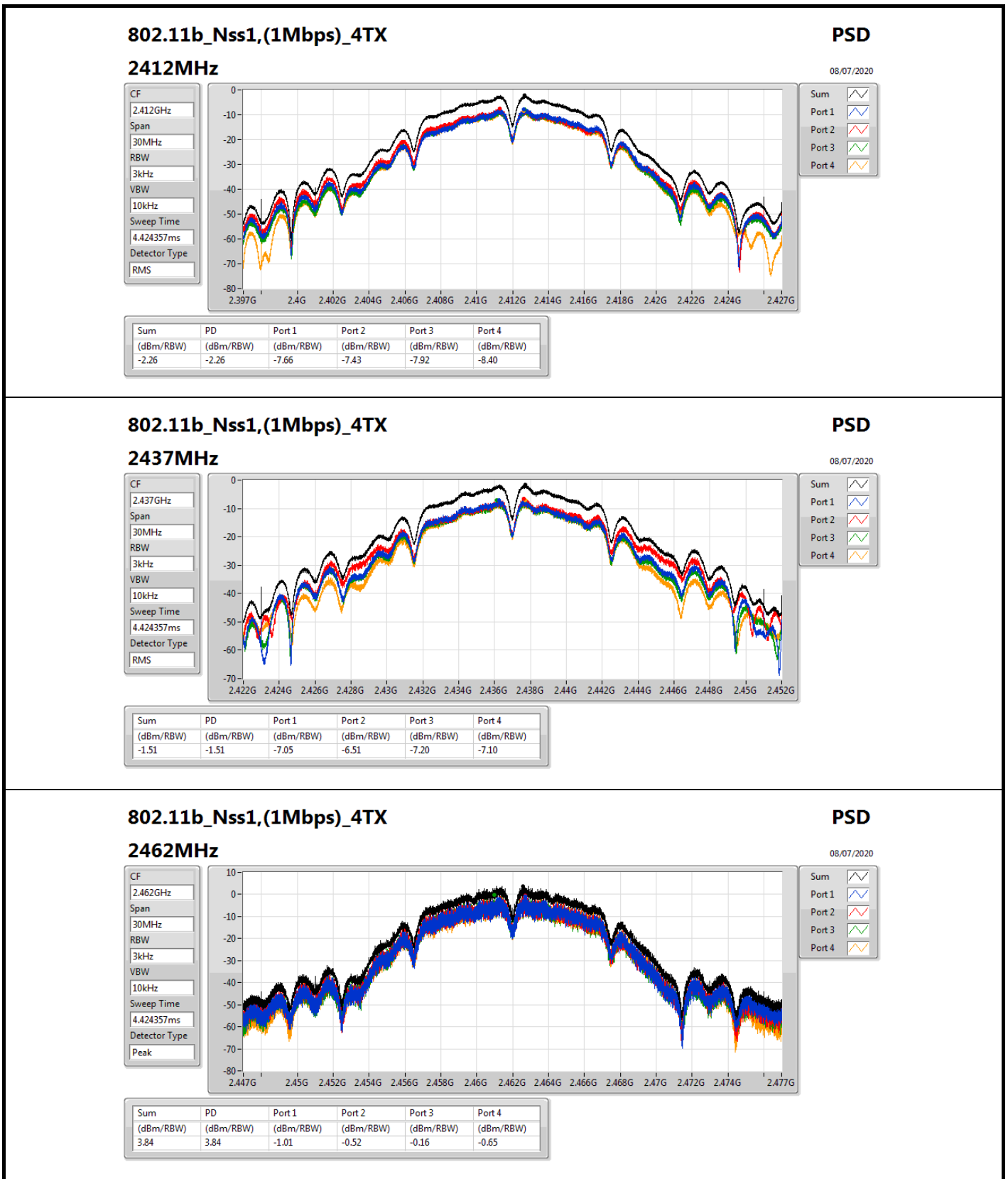
**For EUT 1 / Radio 2\_Non-Beamforming Mode  
Result**

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	10.02	-7.66	-7.43	-7.92	-8.40	-2.26	3.98
2437MHz	Pass	10.02	-7.05	-6.51	-7.20	-7.10	-1.51	3.98
2462MHz	Pass	10.02	-1.01	-0.52	-0.16	-0.65	3.84	3.98
802.11g_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	10.02	-8.60	-9.30	-7.67	-8.89	-3.35	3.98
2437MHz	Pass	10.02	-4.39	-4.23	-4.19	-5.37	0.78	3.98
2462MHz	Pass	10.02	-10.36	-10.15	-10.79	-10.60	-4.63	3.98
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	10.02	-10.67	-8.96	-9.69	-10.17	-3.81	3.98
2437MHz	Pass	10.02	-4.27	-6.36	-4.51	-4.39	1.08	3.98
2462MHz	Pass	10.02	-12.55	-11.36	-13.03	-11.39	-6.00	3.98
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2422MHz	Pass	10.02	-13.15	-12.96	-12.42	-13.38	-7.14	3.98
2437MHz	Pass	10.02	-11.45	-12.08	-12.58	-12.68	-6.32	3.98
2452MHz	Pass	10.02	-14.11	-12.90	-13.09	-12.72	-7.69	3.98

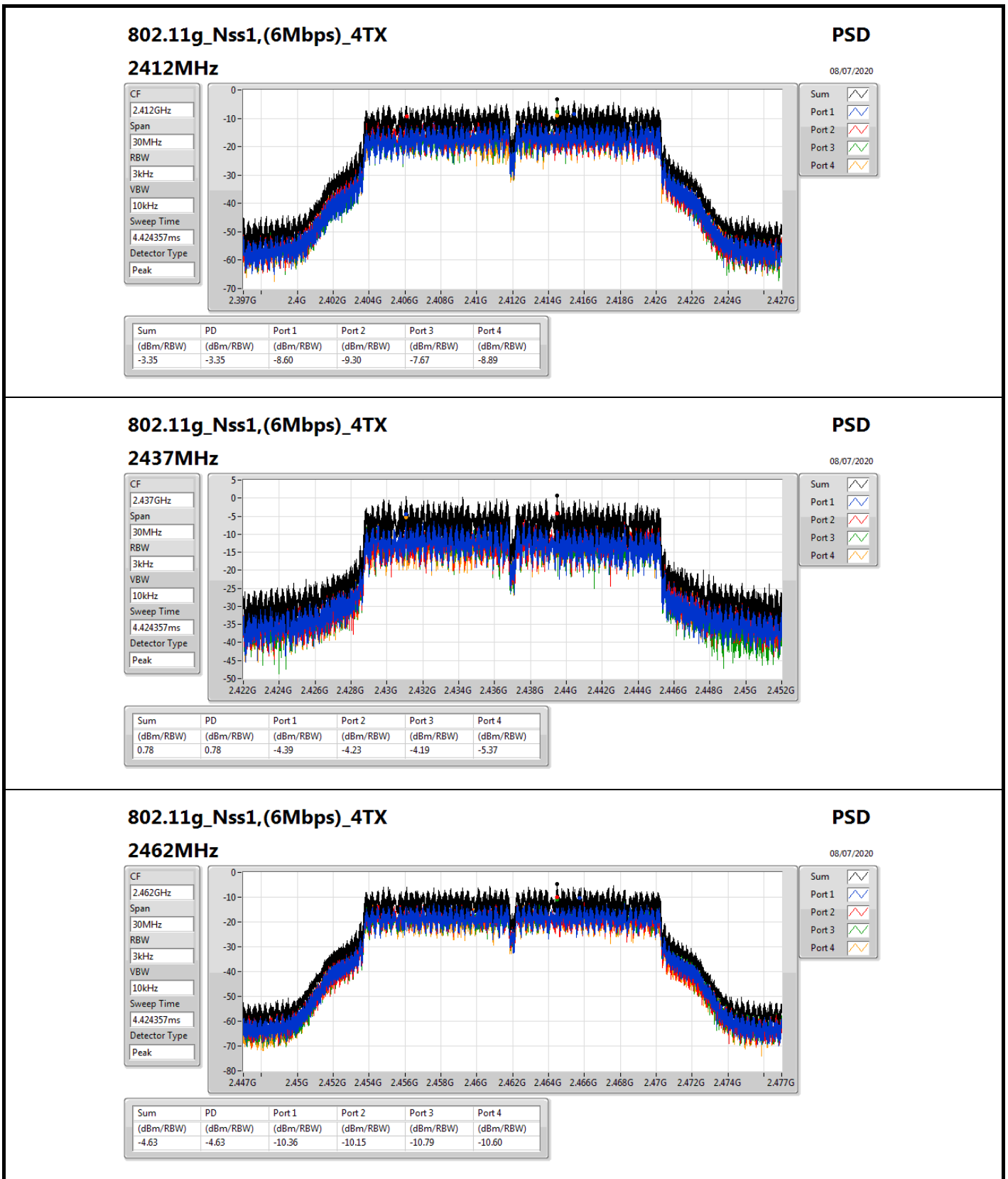
**DG** = Directional Gain; **RBW** = 500 kHz for 5.725-5.85GHz band / 1MHz for other band;

**PD** = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

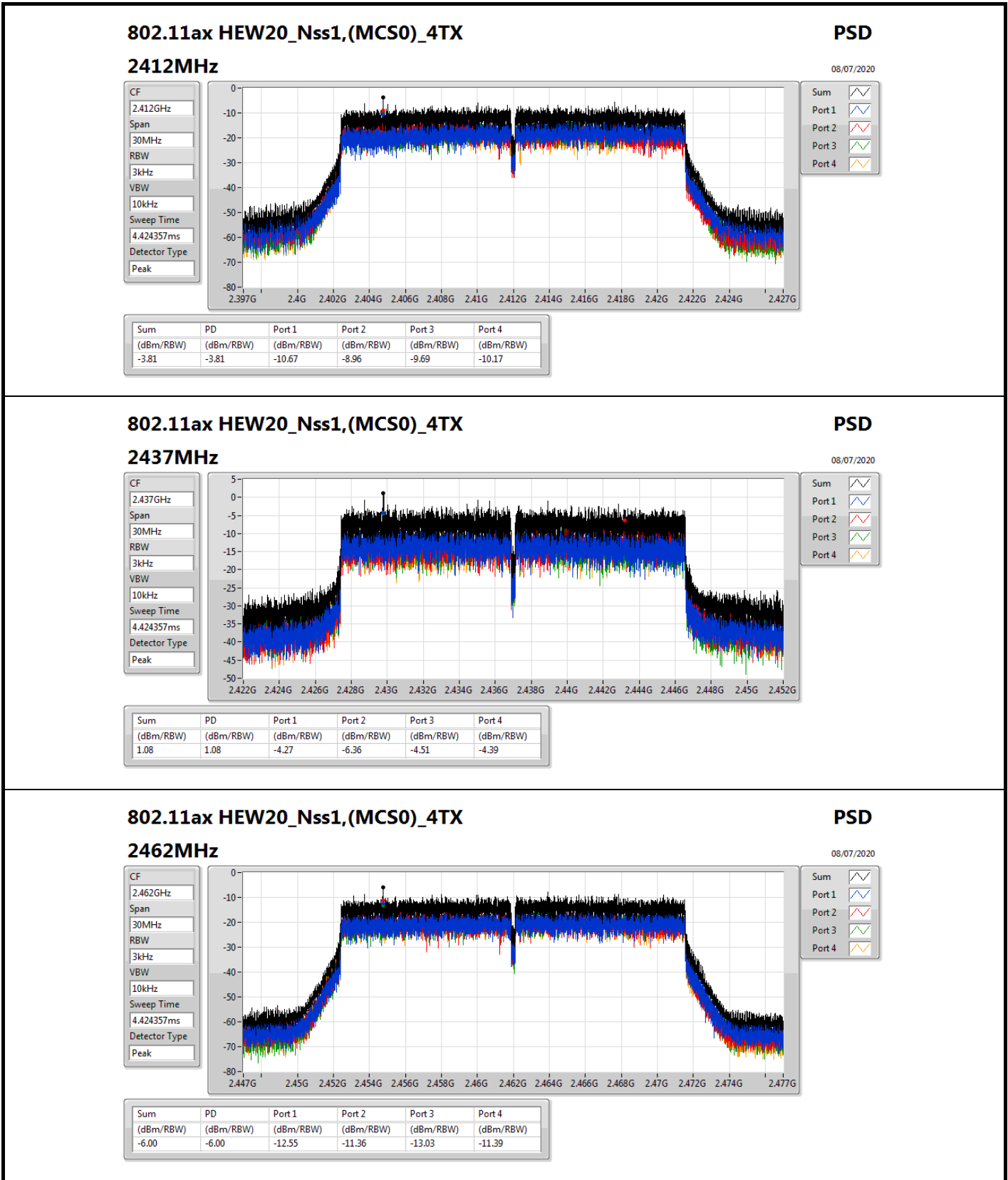
For EUT 1 / Radio 2\_Non-Beamforming Mode



For EUT 1 / Radio 2\_Non-Beamforming Mode



For EUT 1 / Radio 2\_Non-Beamforming Mode



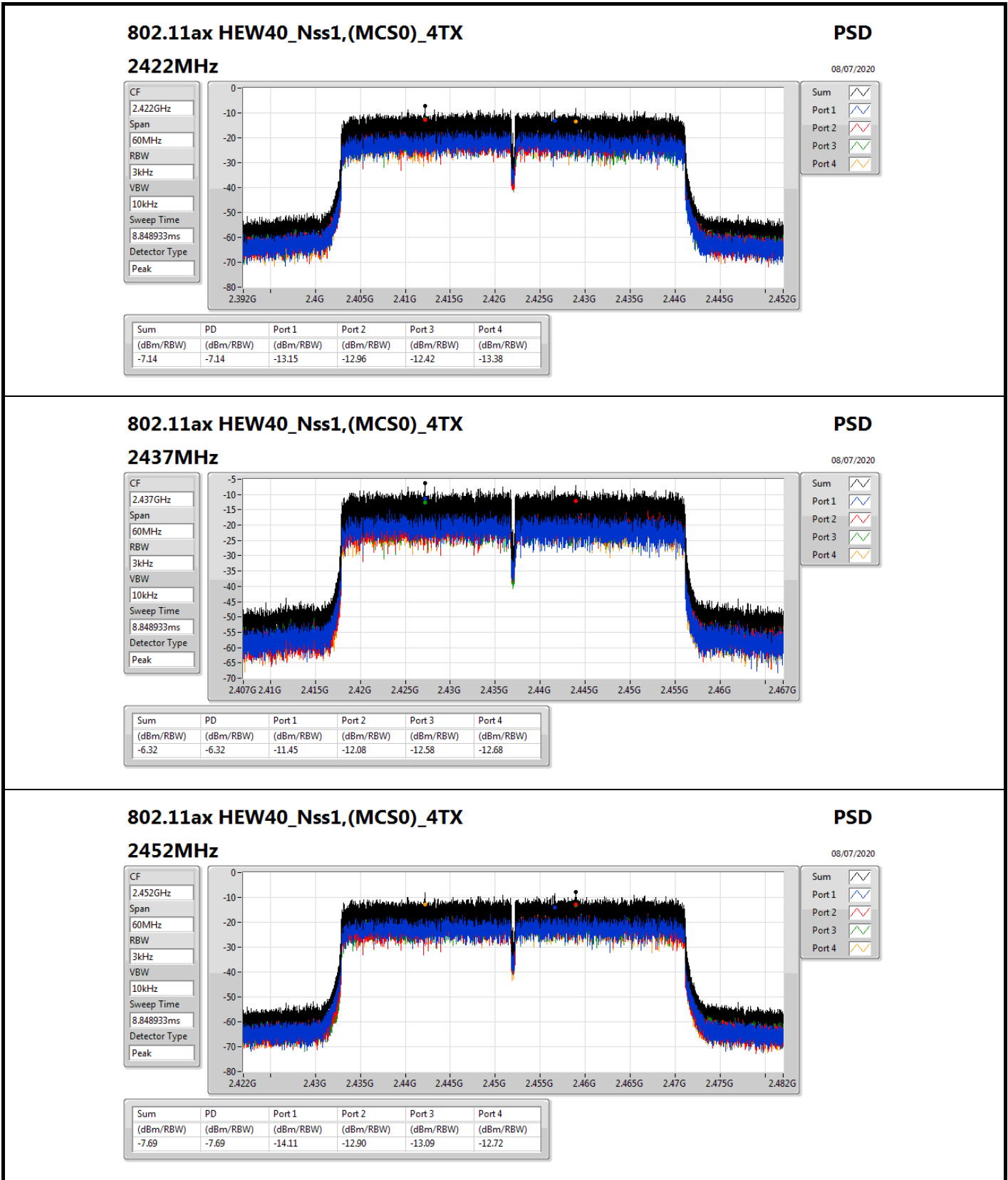
### 802.11ax HEW20\_Nss1,(MCS0)\_4TX

#### 2462MHz

PSD

08/07/2020

For EUT 1 / Radio 2\_Non-Beamforming Mode



### 802.11ax HEW40\_Nss1,(MCS0)\_4TX

#### 2452MHz

PSD

08/07/2020





**For EUT 1 / Radio 3\_Non-Beamforming Mode  
Summary**

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_2TX	3.00
802.11g_Nss1,(6Mbps)_2TX	-1.63
802.11ax HEW20_Nss1,(MCS0)_2TX	-2.01
802.11ax HEW40_Nss1,(MCS0)_2TX	-9.73

RBW=3 kHz.

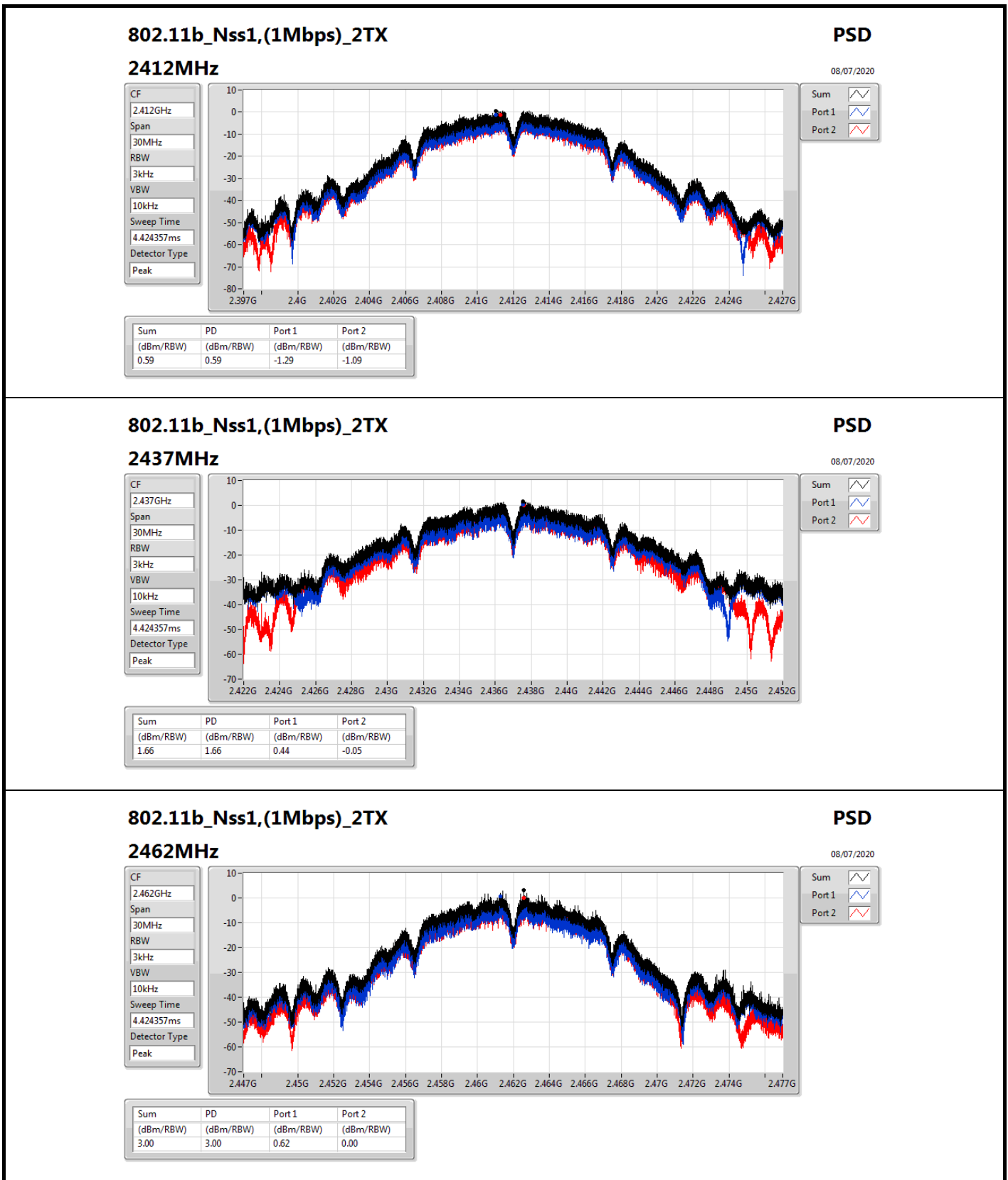
**For EUT 1 / Radio 3\_Non-Beamforming Mode  
Result**

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.31	-1.29	-1.09	0.59	8.00
2437MHz	Pass	5.31	0.44	-0.05	1.66	8.00
2462MHz	Pass	5.31	0.62	0.00	3.00	8.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.31	-9.76	-10.17	-7.17	8.00
2437MHz	Pass	5.31	-4.80	-2.67	-1.63	8.00
2462MHz	Pass	5.31	-10.53	-10.27	-7.77	8.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.31	-9.24	-10.08	-7.27	8.00
2437MHz	Pass	5.31	-5.40	-4.63	-2.01	8.00
2462MHz	Pass	5.31	-11.42	-13.19	-9.33	8.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	5.31	-14.01	-14.14	-11.28	8.00
2437MHz	Pass	5.31	-12.51	-11.94	-9.73	8.00
2452MHz	Pass	5.31	-13.95	-14.40	-11.23	8.00

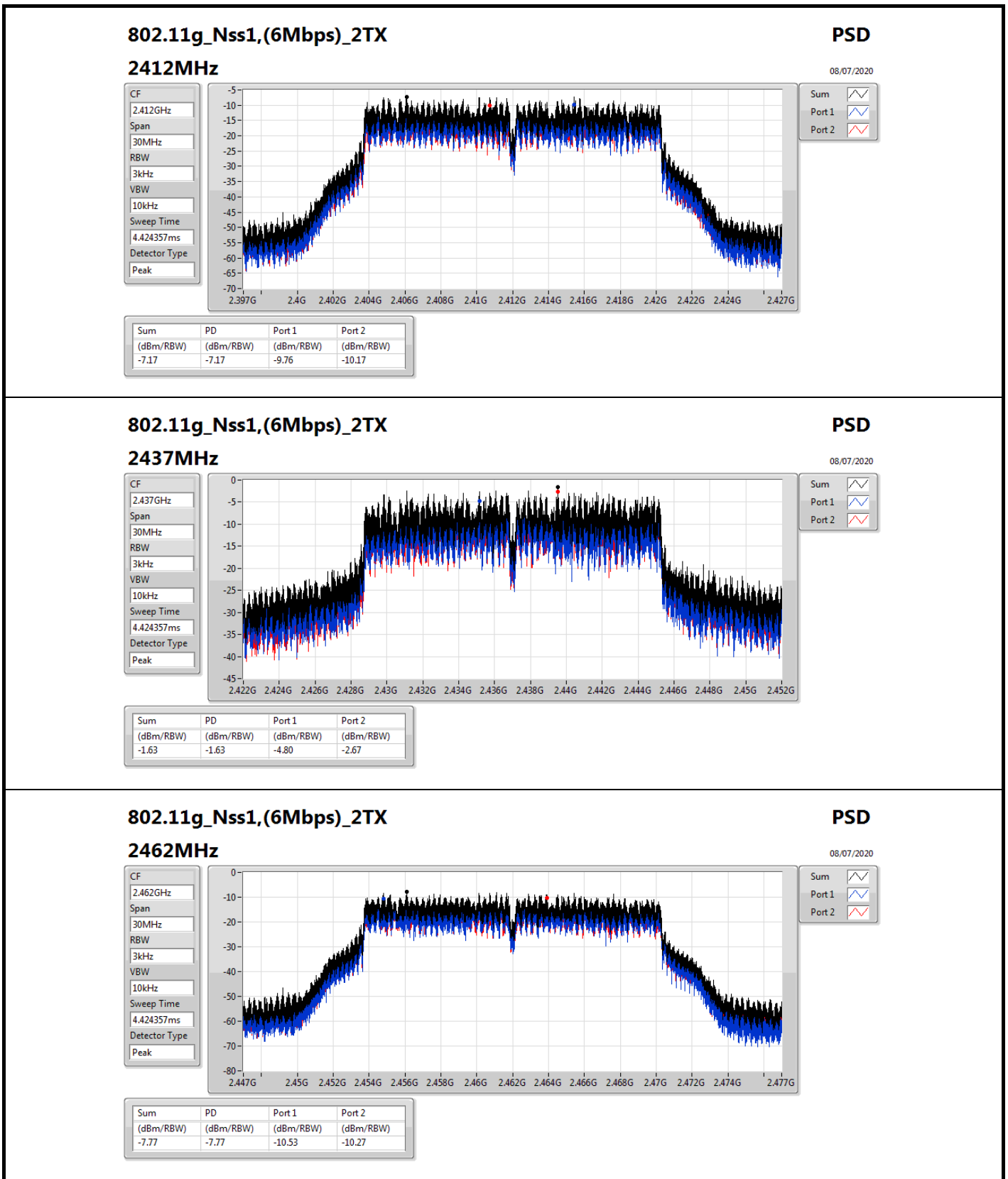
DG = Directional Gain; RBW=3 kHz;

PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X power density;

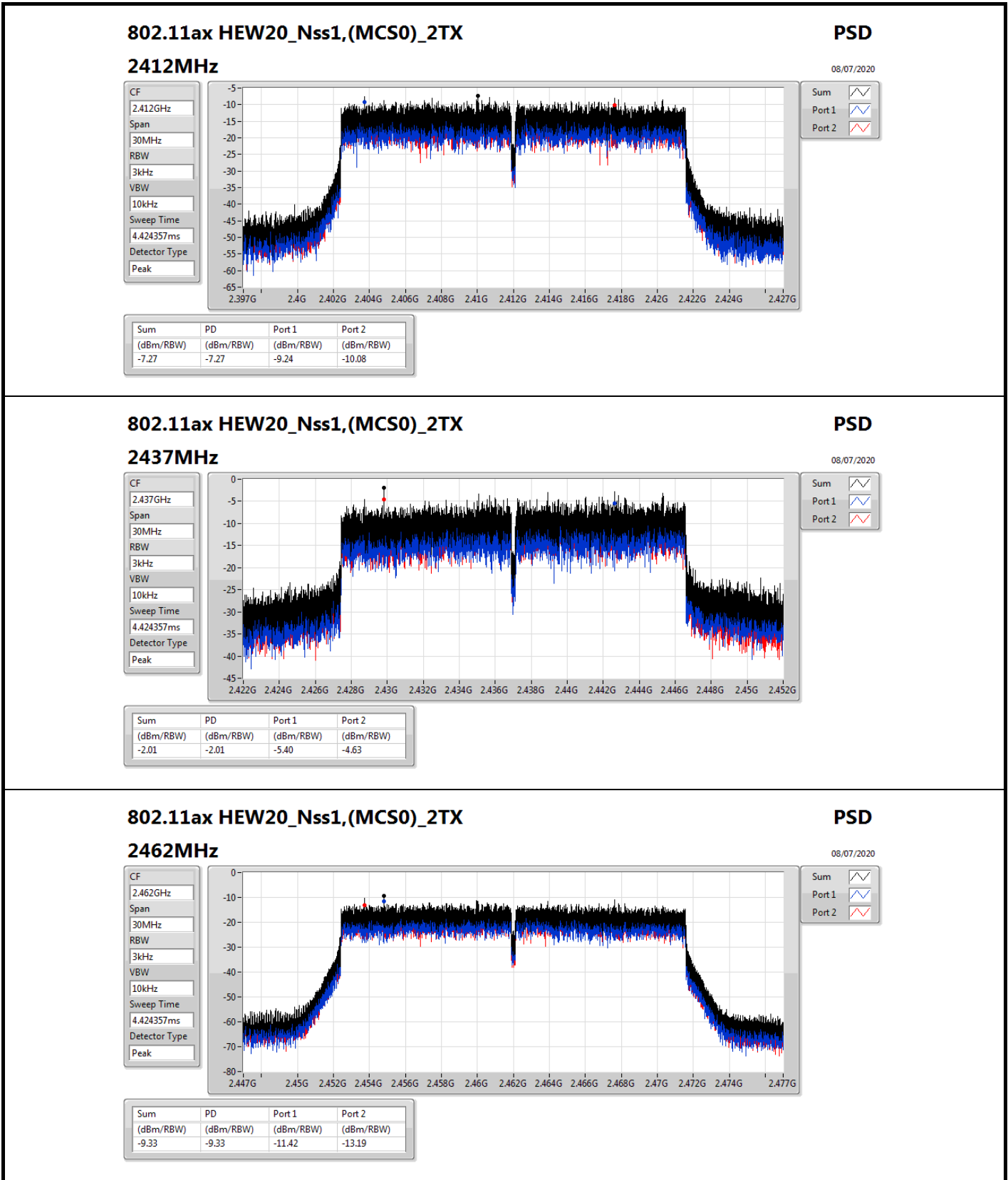
For EUT 1 / Radio 3\_Non-Beamforming Mode



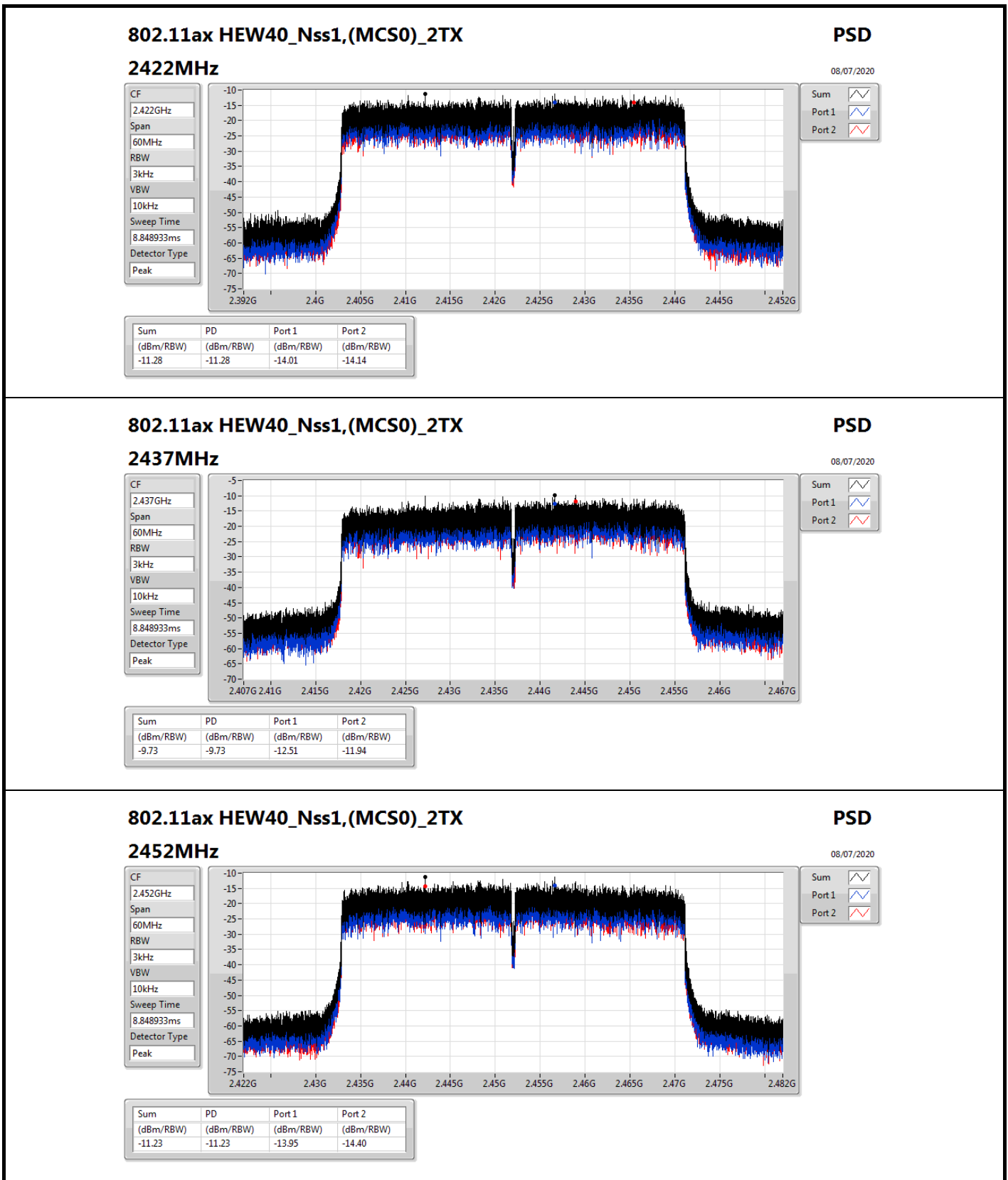
For EUT 1 / Radio 3\_Non-Beamforming Mode



For EUT 1 / Radio 3\_Non-Beamforming Mode



For EUT 1 / Radio 3\_Non-Beamforming Mode



### 802.11ax HEW40\_Nss1,(MCS0)\_2TX

#### 2452MHz

PSD

08/07/2020

CF

2.452GHz

Span

60MHz

RBW

3kHz

VBW

10kHz

Sweep Time

8.848933ms

Detector Type

Peak



Sum

Port 1

Port 2



**For EUT 2 / Radio 2 / External Ant.1\_Non-Beamforming Mode  
Summary**

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_4TX	3.79
802.11g_Nss1,(6Mbps)_4TX	-0.09
802.11ax HEW20_Nss1,(MCS0)_4TX	-1.10
802.11ax HEW40_Nss1,(MCS0)_4TX	-7.32

RBW = 500 kHz for 5.725-5.85GHz band / 1MHz for other band;

**For EUT 2 / Radio 2 / External Ant.1\_Non-Beamforming Mode  
Result**

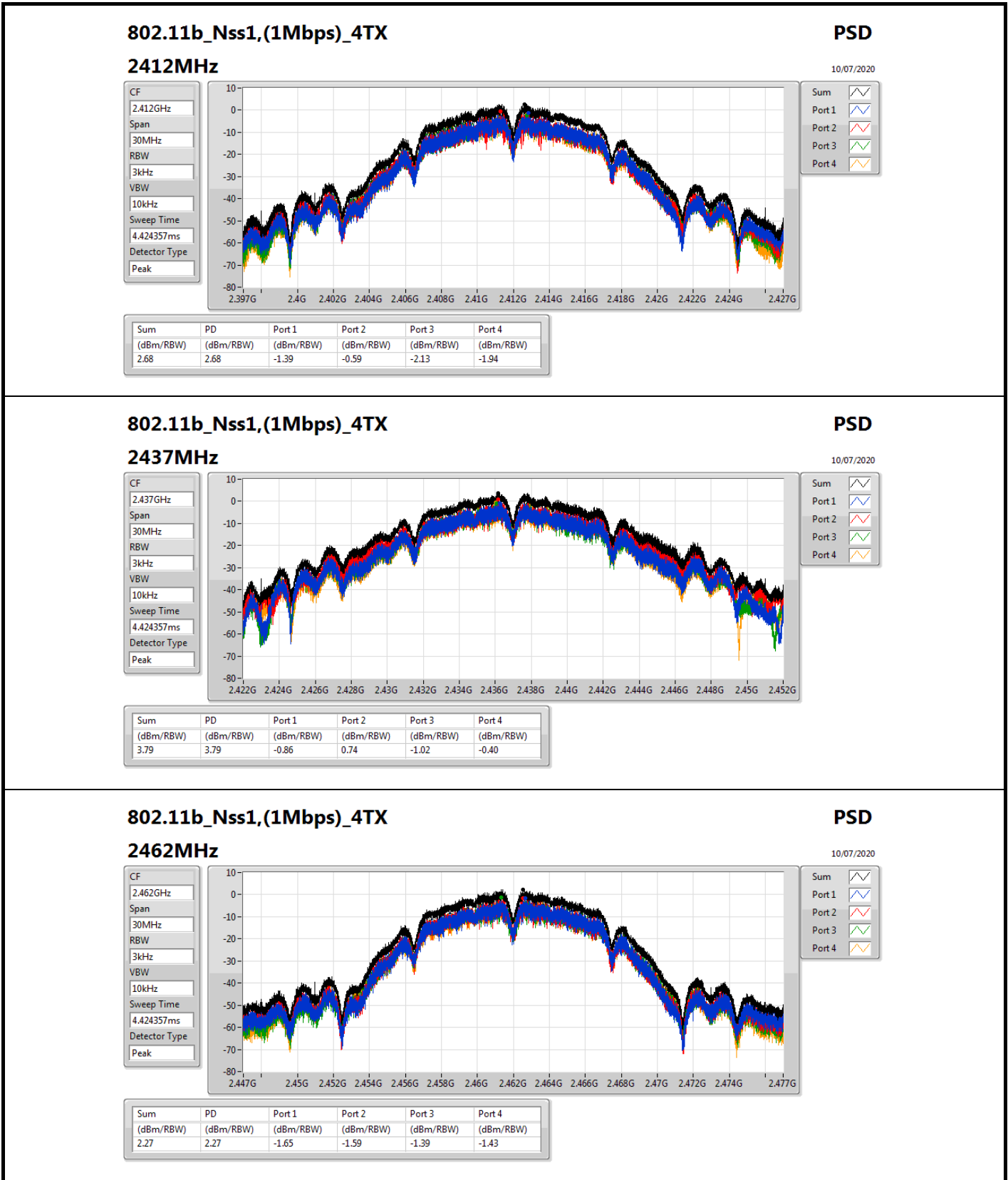
Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	10.02	-1.39	-0.59	-2.13	-1.94	2.68	3.98
2437MHz	Pass	10.02	-0.86	0.74	-1.02	-0.40	3.79	3.98
2462MHz	Pass	10.02	-1.65	-1.59	-1.39	-1.43	2.27	3.98
802.11g_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	10.02	-10.54	-11.36	-12.17	-11.09	-6.11	3.98
2437MHz	Pass	10.02	-5.63	-5.31	-6.11	-5.01	-0.09	3.98
2462MHz	Pass	10.02	-11.42	-11.86	-11.11	-11.01	-5.32	3.98
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	10.02	-13.54	-10.88	-13.32	-12.35	-6.40	3.98
2437MHz	Pass	10.02	-4.66	-5.38	-7.12	-7.46	-1.10	3.98
2462MHz	Pass	10.02	-13.61	-14.05	-12.63	-13.94	-7.50	3.98
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2422MHz	Pass	10.02	-15.30	-15.71	-15.26	-14.67	-9.49	3.98
2437MHz	Pass	10.02	-12.71	-12.44	-13.64	-12.79	-7.32	3.98
2452MHz	Pass	10.02	-15.65	-14.42	-14.40	-15.01	-9.25	3.98

**DG** = Directional Gain; **RBW** = 500 kHz for 5.725-5.85GHz band / 1MHz for other band;

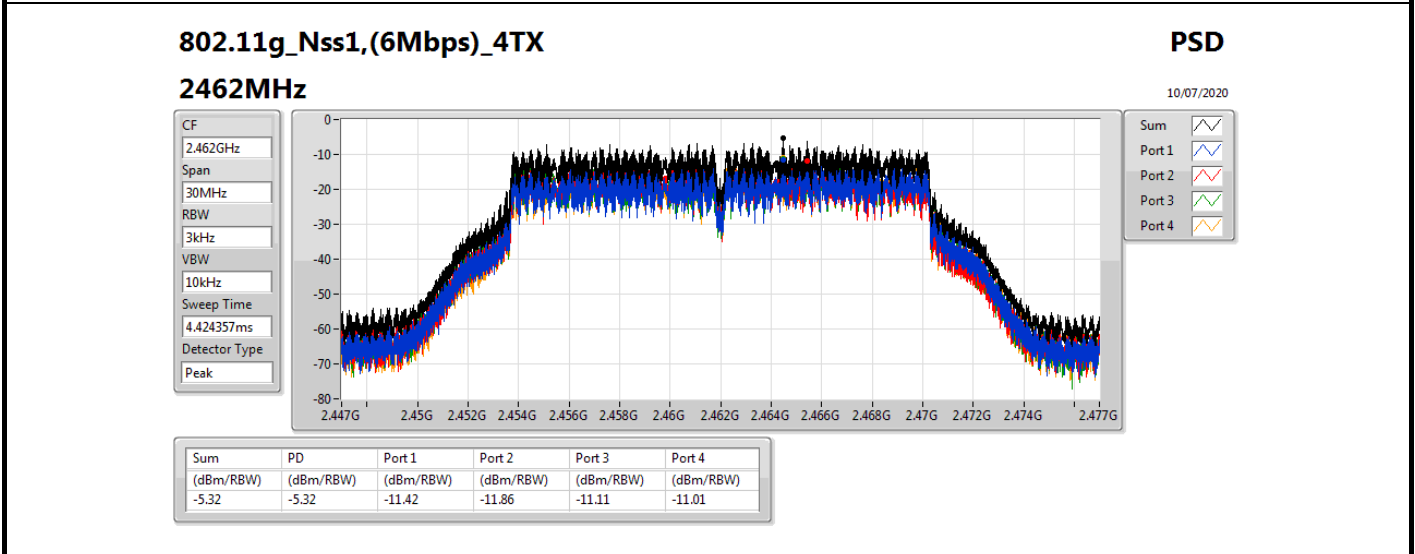
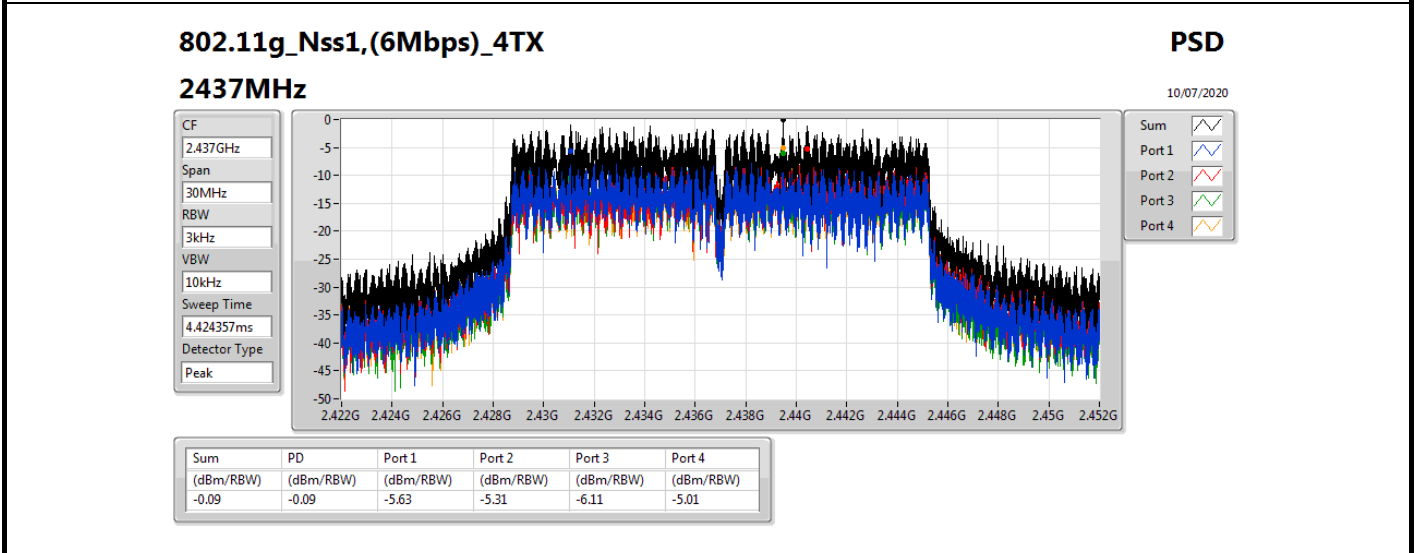
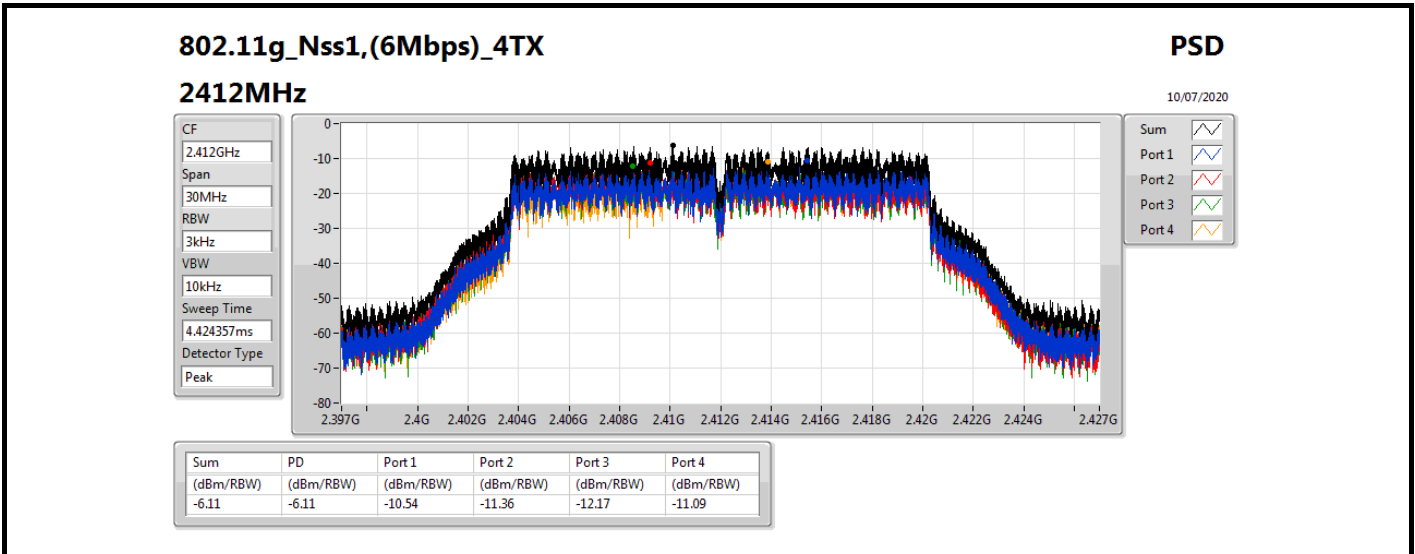
**PD** = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;



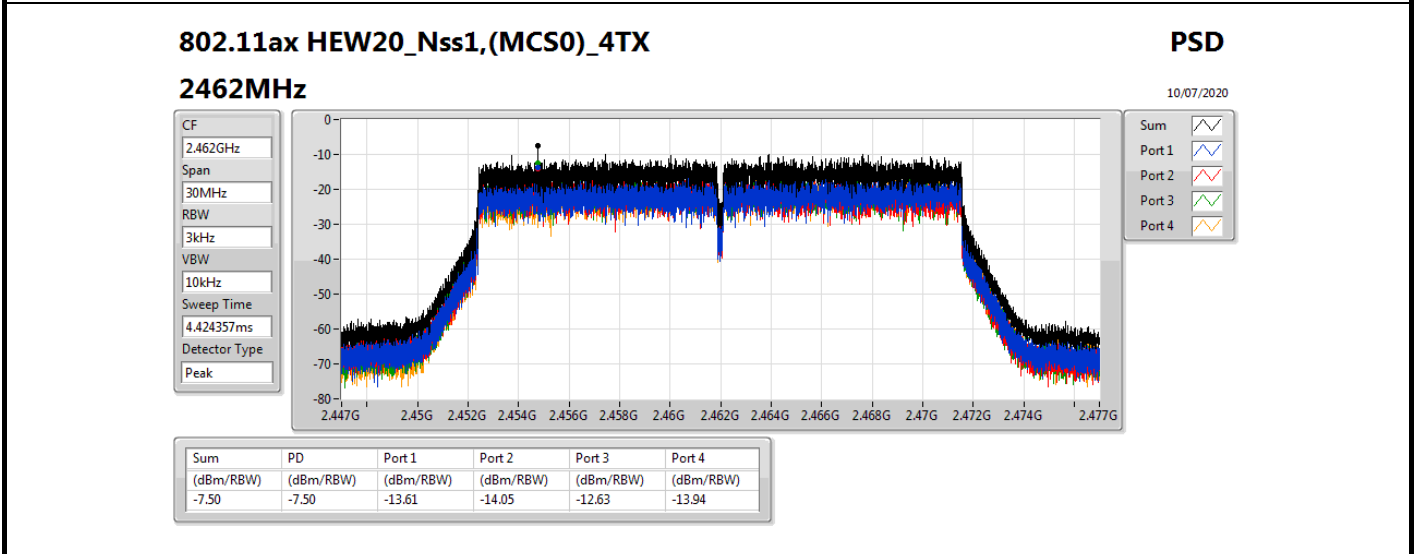
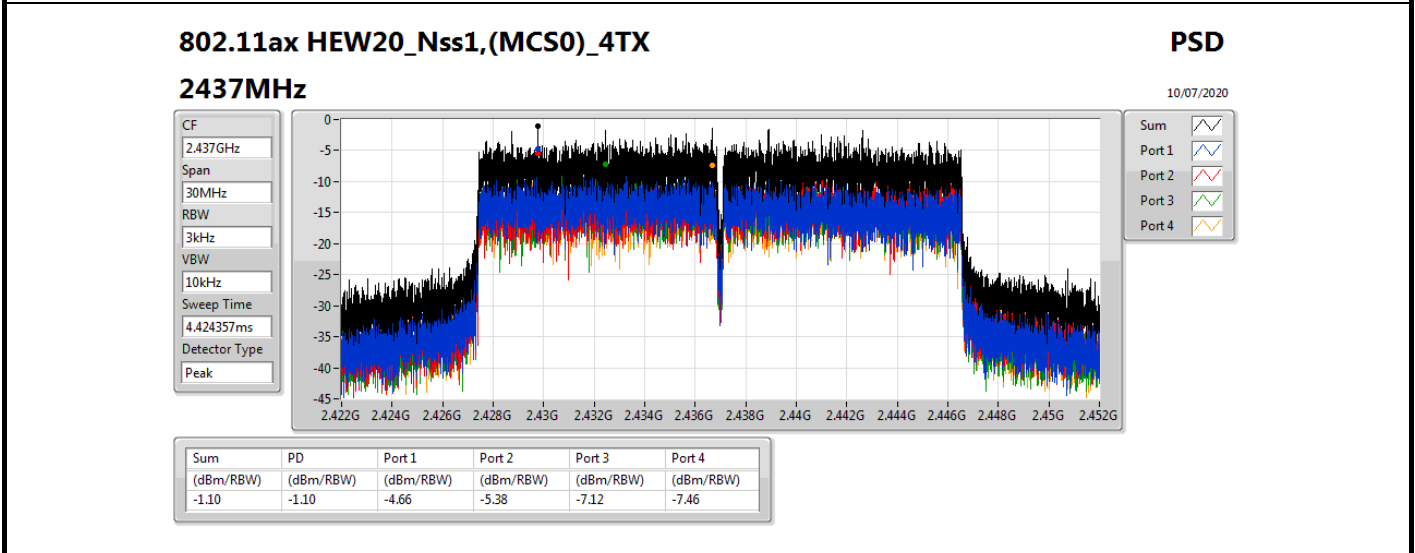
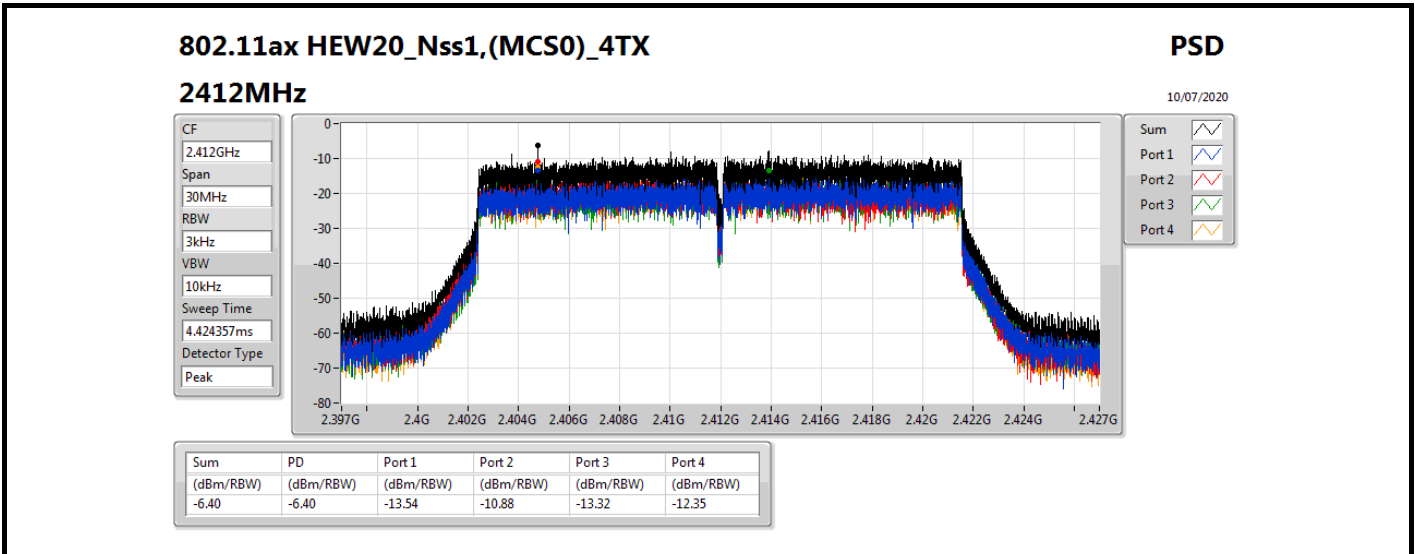
For EUT 2 / Radio 2 / External Ant.1\_Non-Beamforming Mode



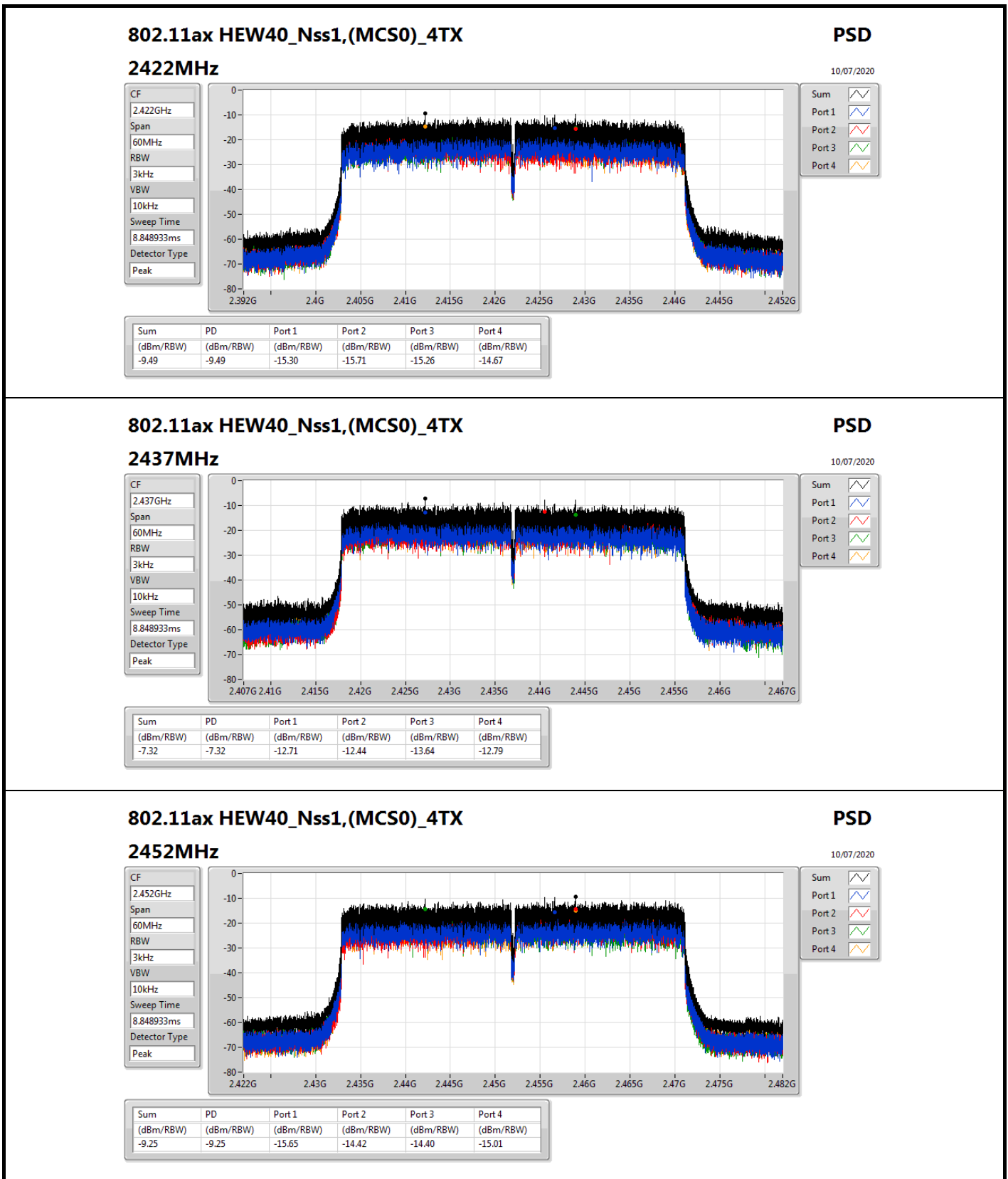
For EUT 2 / Radio 2 / External Ant.1\_Non-Beamforming Mode



For EUT 2 / Radio 2 / External Ant.1\_Non-Beamforming Mode



For EUT 2 / Radio 2 / External Ant.1\_Non-Beamforming Mode



### 802.11ax HEW40\_Nss1,(MCS0)\_4TX

#### 2452MHz

PSD

10/07/2020

Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-9.25	-9.25	-15.65	-14.42	-14.40	-15.01

Sum	Port 1	Port 2	Port 3	Port 4
-9.25	-15.65	-14.42	-14.40	-15.01



**For EUT 2 / Radio 3 / External Ant.1\_Non-Beamforming Mode  
Summary**

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_2TX	0.98
802.11g_Nss1,(6Mbps)_2TX	-3.05
802.11ax HEW20_Nss1,(MCS0)_2TX	-4.40
802.11ax HEW40_Nss1,(MCS0)_2TX	-10.52

RBW = 500 kHz for 5.725-5.85GHz band / 1MHz for other band;

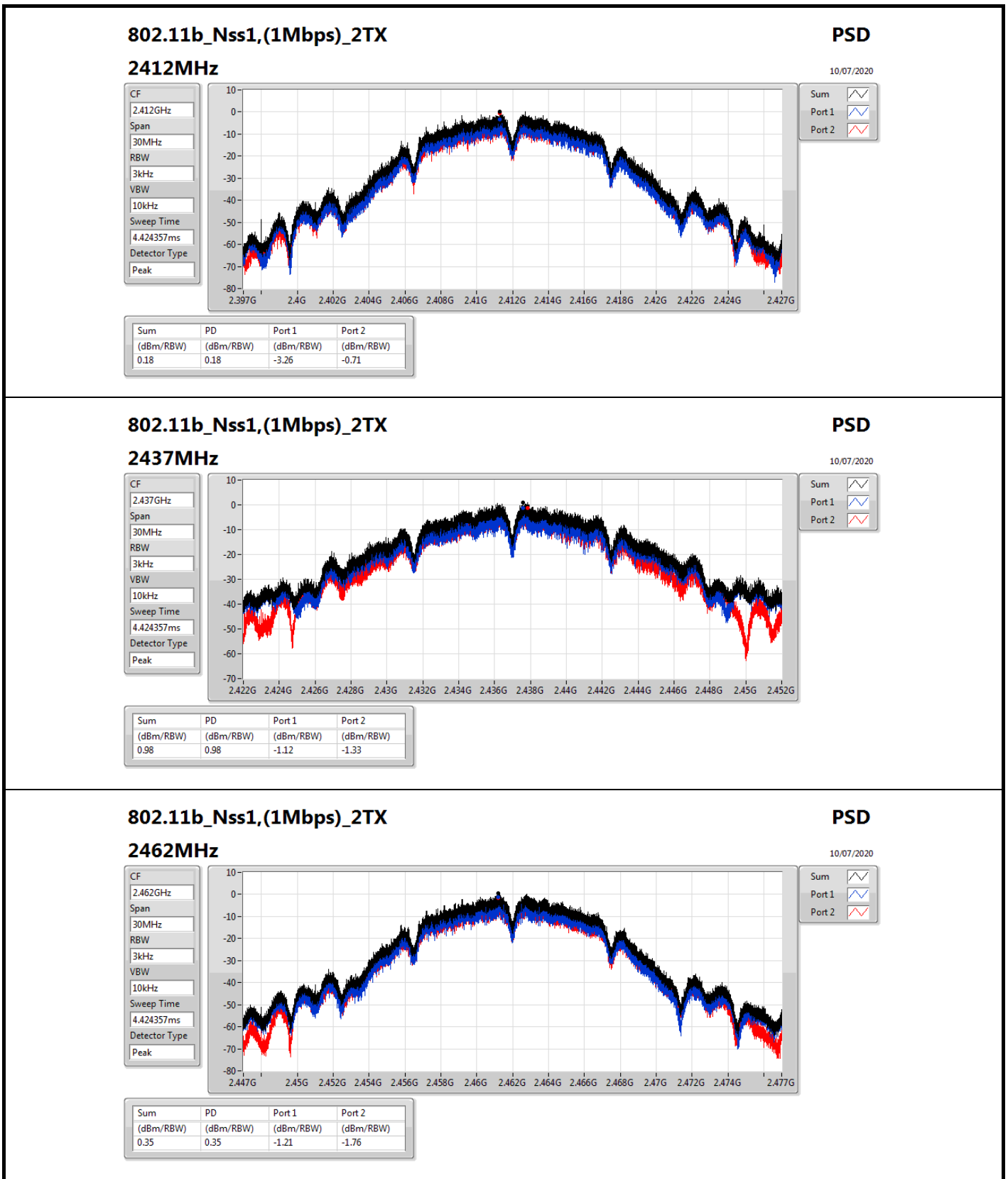
**For EUT 2 / Radio 3 / External Ant.1\_Non-Beamforming Mode  
Result**

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	7.01	-3.26	-0.71	0.18	6.99
2437MHz	Pass	7.01	-1.12	-1.33	0.98	6.99
2462MHz	Pass	7.01	-1.21	-1.76	0.35	6.99
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	7.01	-10.99	-11.25	-8.11	6.99
2437MHz	Pass	7.01	-6.05	-5.58	-3.05	6.99
2462MHz	Pass	7.01	-10.49	-10.60	-8.09	6.99
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	7.01	-12.39	-10.15	-9.42	6.99
2437MHz	Pass	7.01	-6.31	-6.89	-4.40	6.99
2462MHz	Pass	7.01	-10.91	-10.16	-7.51	6.99
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	7.01	-15.22	-13.60	-11.44	6.99
2437MHz	Pass	7.01	-13.16	-13.10	-10.52	6.99
2452MHz	Pass	7.01	-14.25	-13.63	-10.92	6.99

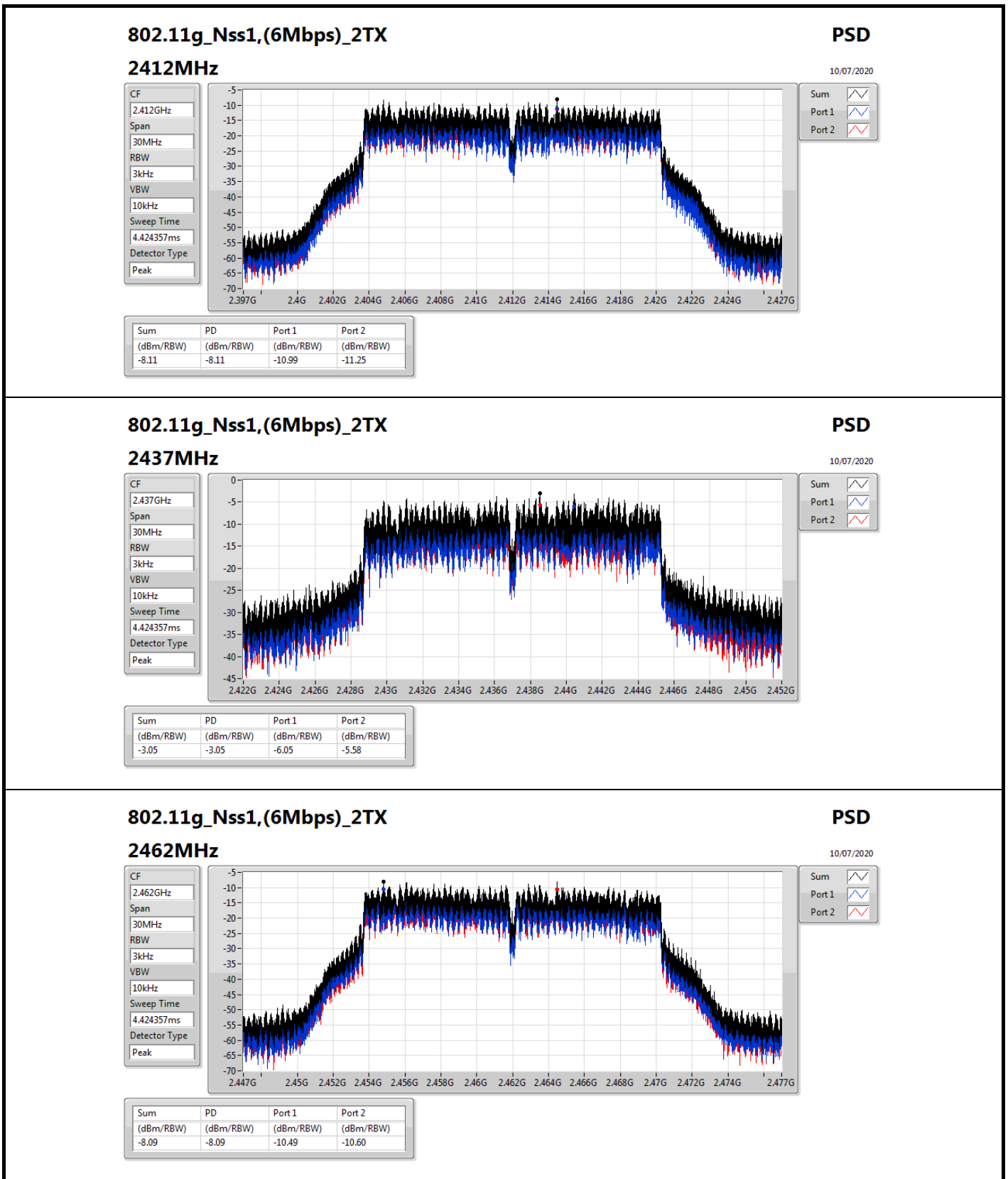
**DG** = Directional Gain; **RBW** = 500 kHz for 5.725-5.85GHz band / 1MHz for other band;

**PD** = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

For EUT 2 / Radio 3 / External Ant.1\_Non-Beamforming Mode

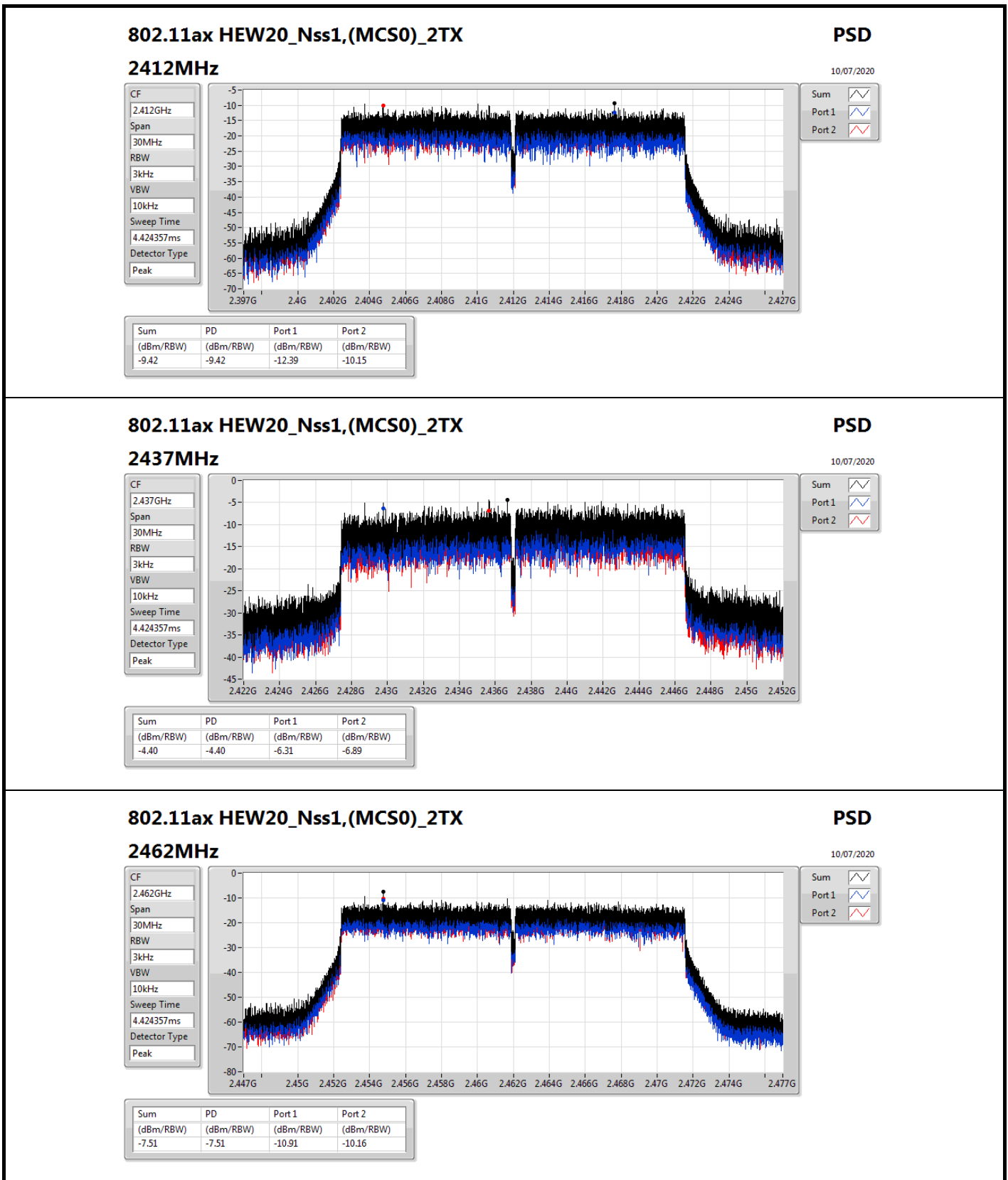


For EUT 2 / Radio 3 / External Ant.1\_Non-Beamforming Mode





For EUT 2 / Radio 3 / External Ant.1\_Non-Beamforming Mode



### 802.11ax HEW20\_Nss1,(MCS0)\_2TX

#### 2462MHz

PSD

10/07/2020

CF  
2.462GHz

Span  
30MHz

RBW  
3kHz

VBW  
10kHz

Sweep Time  
4.424357ms

Detector Type  
Peak



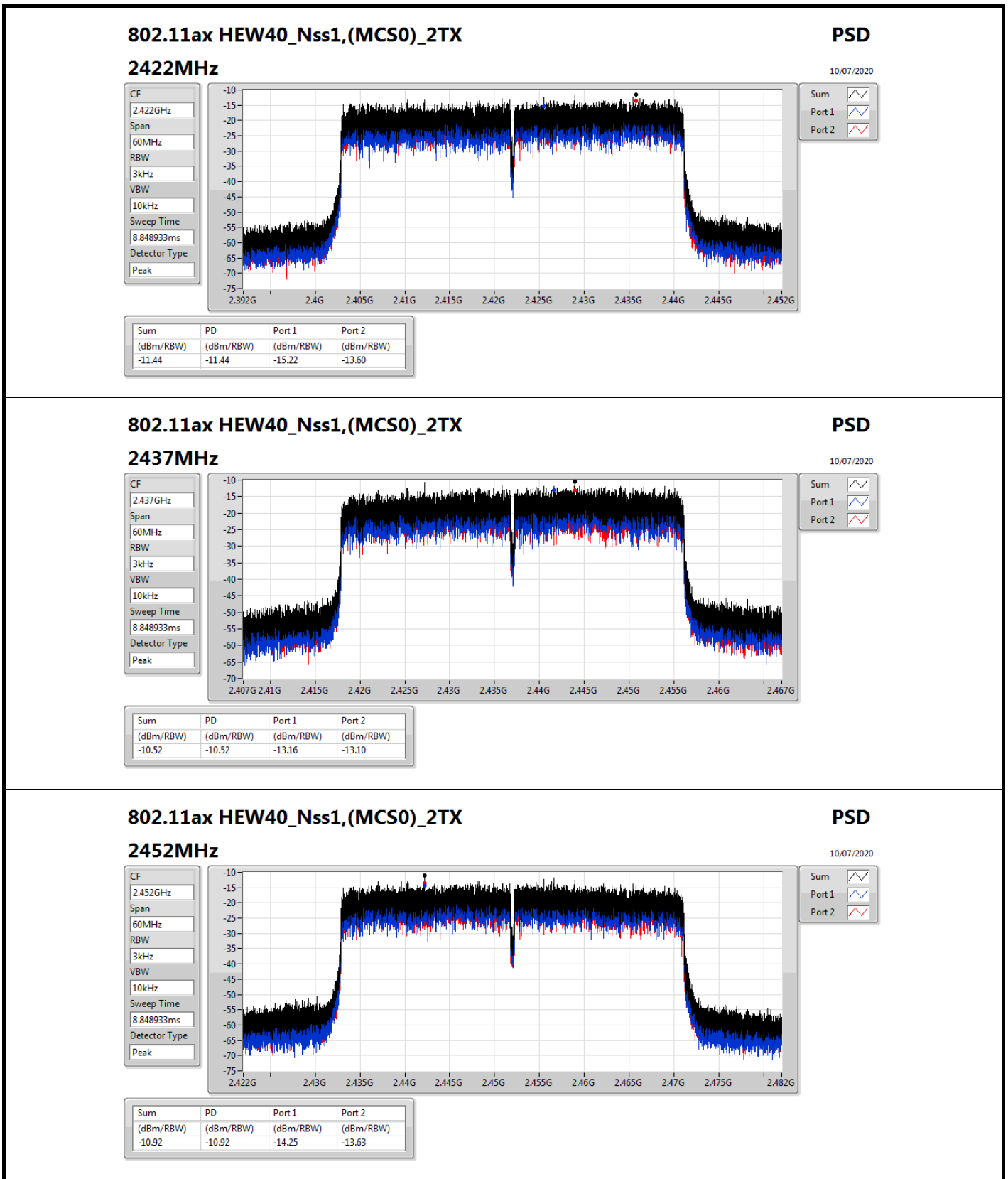
Sum 

Port 1 

Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-7.51	-7.51	-10.91	-10.16

For EUT 2 / Radio 3 / External Ant.1\_Non-Beamforming Mode



### 802.11ax HEW40\_Nss1,(MCS0)\_2TX

#### 2452MHz

PSD

10/07/2020

CF  
2.452GHz

Span  
60MHz

RBW  
3kHz

VBW  
10kHz

Sweep Time  
8.848933ms

Detector Type  
Peak



Sum 

Port 1 

Port 2 



**For EUT 2 / Radio 2 / External Ant.2\_Non-Beamforming Mode  
Summary**

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_4TX	-3.45
802.11g_Nss1,(6Mbps)_4TX	-1.75
802.11ax HEW20_Nss1,(MCS0)_4TX	-4.66
802.11ax HEW40_Nss1,(MCS0)_4TX	-9.87

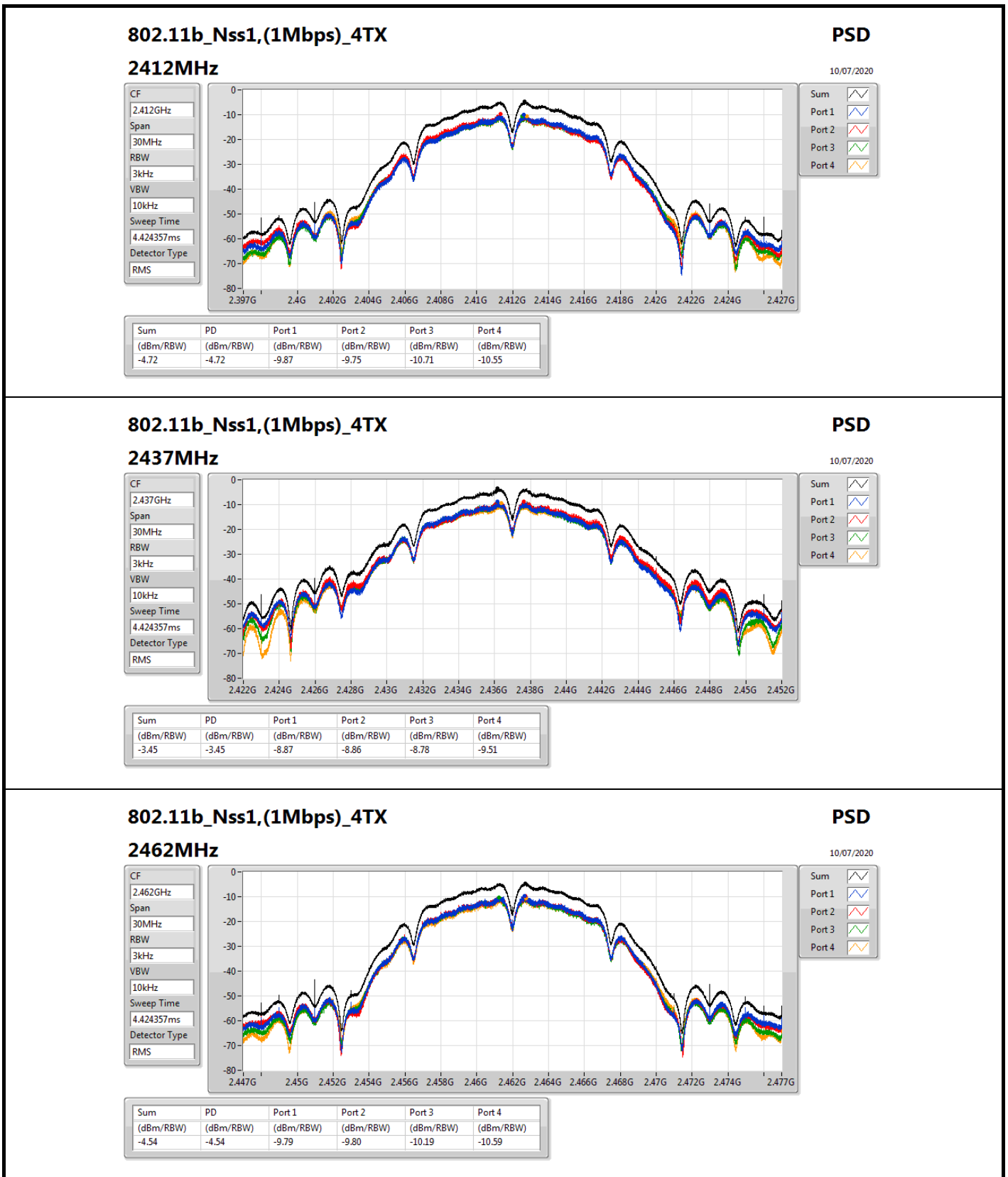
RBW = 500 kHz for 5.725-5.85GHz band / 1MHz for other band;

**For EUT 2 / Radio 2 / External Ant.2\_Non-Beamforming Mode  
Result**

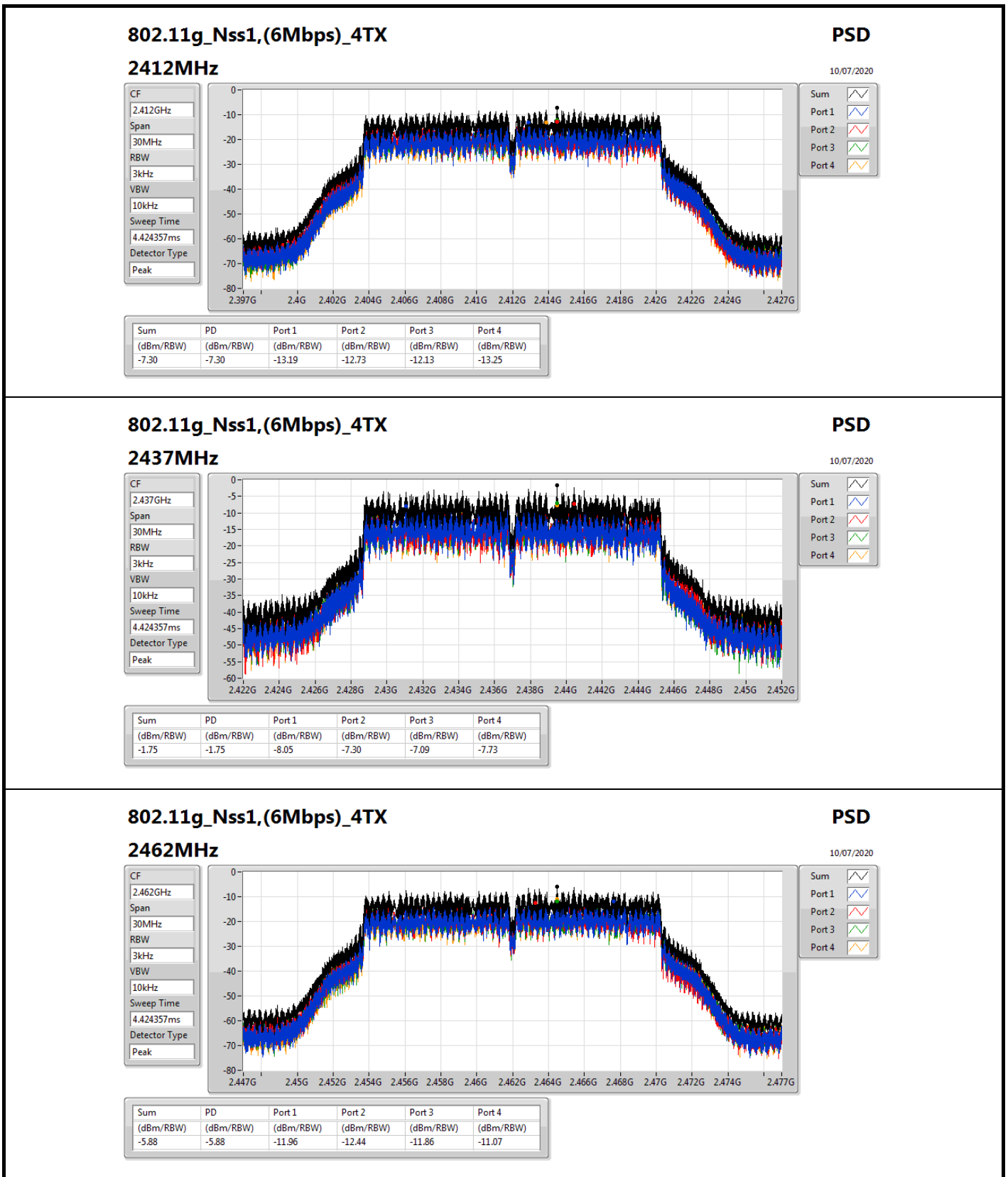
Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	14.02	-9.87	-9.75	-10.71	-10.55	-4.72	-0.02
2437MHz	Pass	14.02	-8.87	-8.86	-8.78	-9.51	-3.45	-0.02
2462MHz	Pass	14.02	-9.79	-9.80	-10.19	-10.59	-4.54	-0.02
802.11g_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	14.02	-13.19	-12.73	-12.13	-13.25	-7.30	-0.02
2437MHz	Pass	14.02	-8.05	-7.30	-7.09	-7.73	-1.75	-0.02
2462MHz	Pass	14.02	-11.96	-12.44	-11.86	-11.07	-5.88	-0.02
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	14.02	-14.98	-13.90	-15.33	-14.85	-9.84	-0.02
2437MHz	Pass	14.02	-9.51	-9.91	-10.16	-10.12	-4.66	-0.02
2462MHz	Pass	14.02	-15.33	-14.19	-14.46	-15.59	-9.86	-0.02
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2422MHz	Pass	14.02	-16.95	-18.10	-17.83	-17.44	-11.83	-0.02
2437MHz	Pass	14.02	-14.91	-15.02	-15.21	-15.92	-9.87	-0.02
2452MHz	Pass	14.02	-16.41	-15.62	-15.66	-15.75	-10.93	-0.02

**DG** = Directional Gain; **RBW** = 500 kHz for 5.725-5.85GHz band / 1MHz for other band;  
**PD** = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

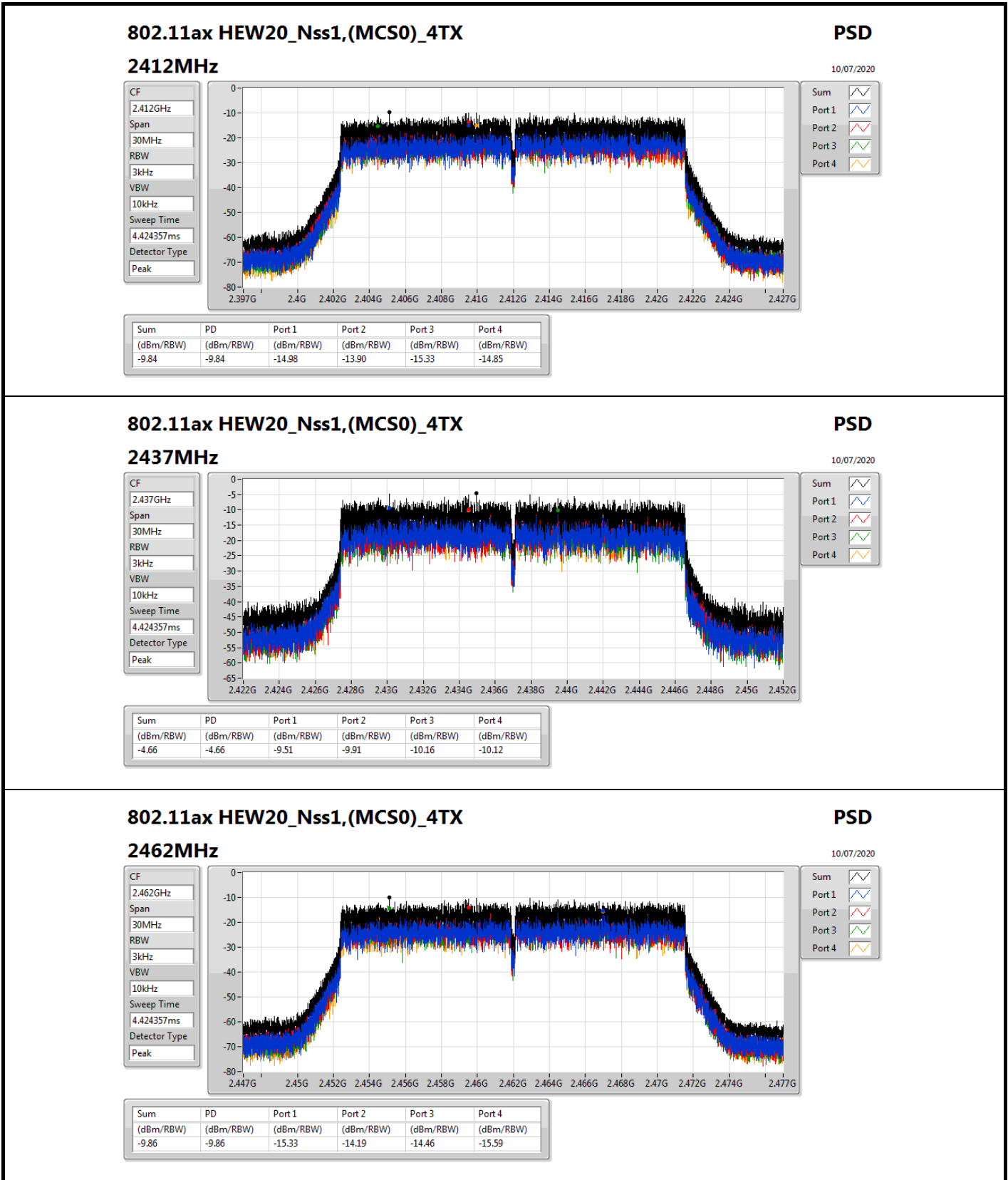
For EUT 2 / Radio 2 / External Ant.2\_Non-Beamforming Mode



For EUT 2 / Radio 2 / External Ant.2\_Non-Beamforming Mode



For EUT 2 / Radio 2 / External Ant.2\_Non-Beamforming Mode



### 802.11ax HEW20\_Nss1,(MCS0)\_4TX

#### 2462MHz

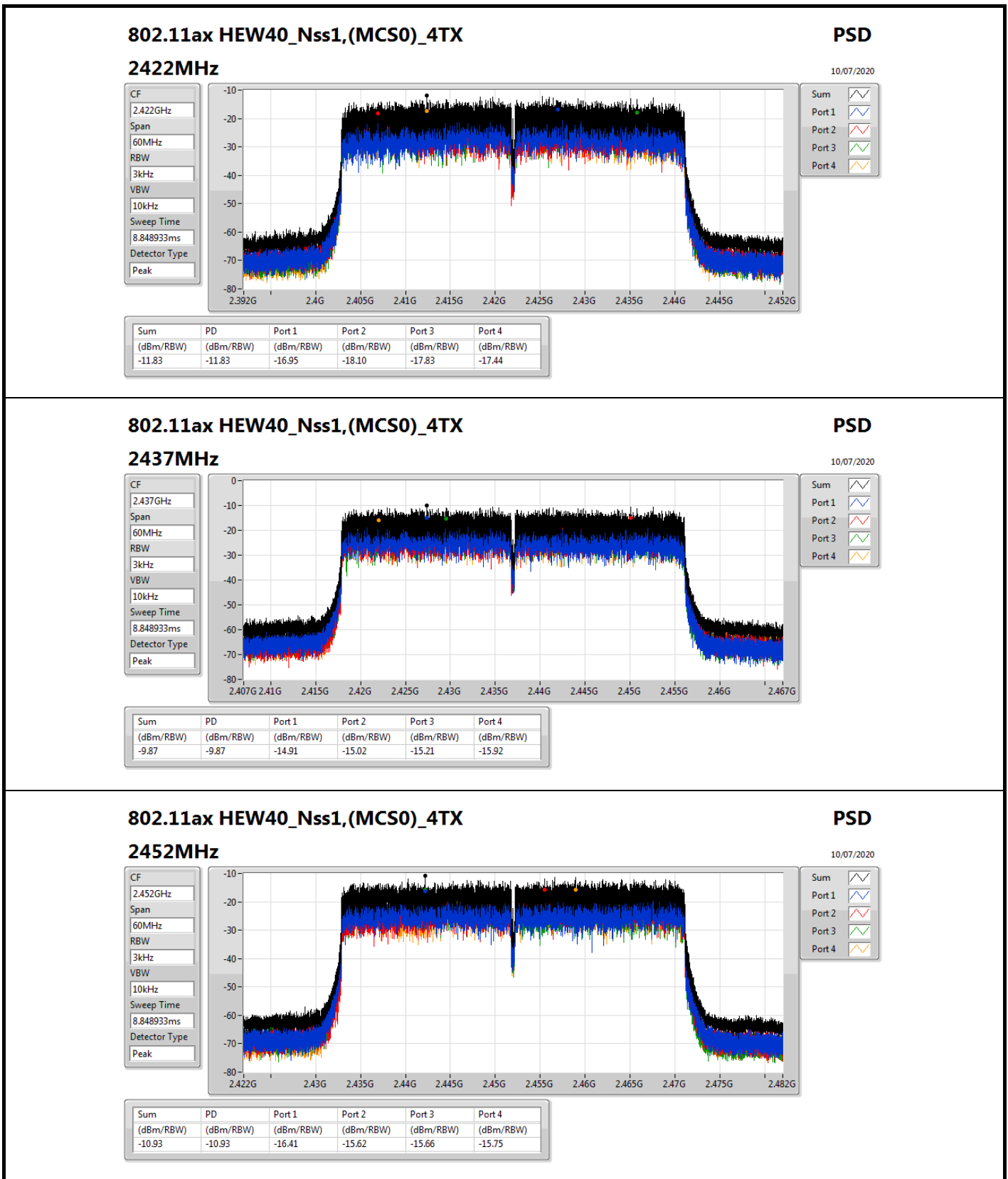
PSD

10/07/2020

Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-9.86	-9.86	-15.33	-14.19	-14.46	-15.59

Sum	Port 1	Port 2	Port 3	Port 4

For EUT 2 / Radio 2 / External Ant.2\_Non-Beamforming Mode



### 802.11ax HEW40\_Nss1,(MCS0)\_4TX

#### 2452MHz

PSD

10/07/2020

Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-10.93	-10.93	-16.41	-15.62	-15.66	-15.75





**For EUT 2 / Radio 3 / External Ant.2\_Non-Beamforming Mode  
Summary**

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_2TX	1.68
802.11g_Nss1,(6Mbps)_2TX	-3.59
802.11ax HEW20_Nss1,(MCS0)_2TX	-4.40
802.11ax HEW40_Nss1,(MCS0)_2TX	-12.17

RBW = 500 kHz for 5.725-5.85GHz band / 1MHz for other band;

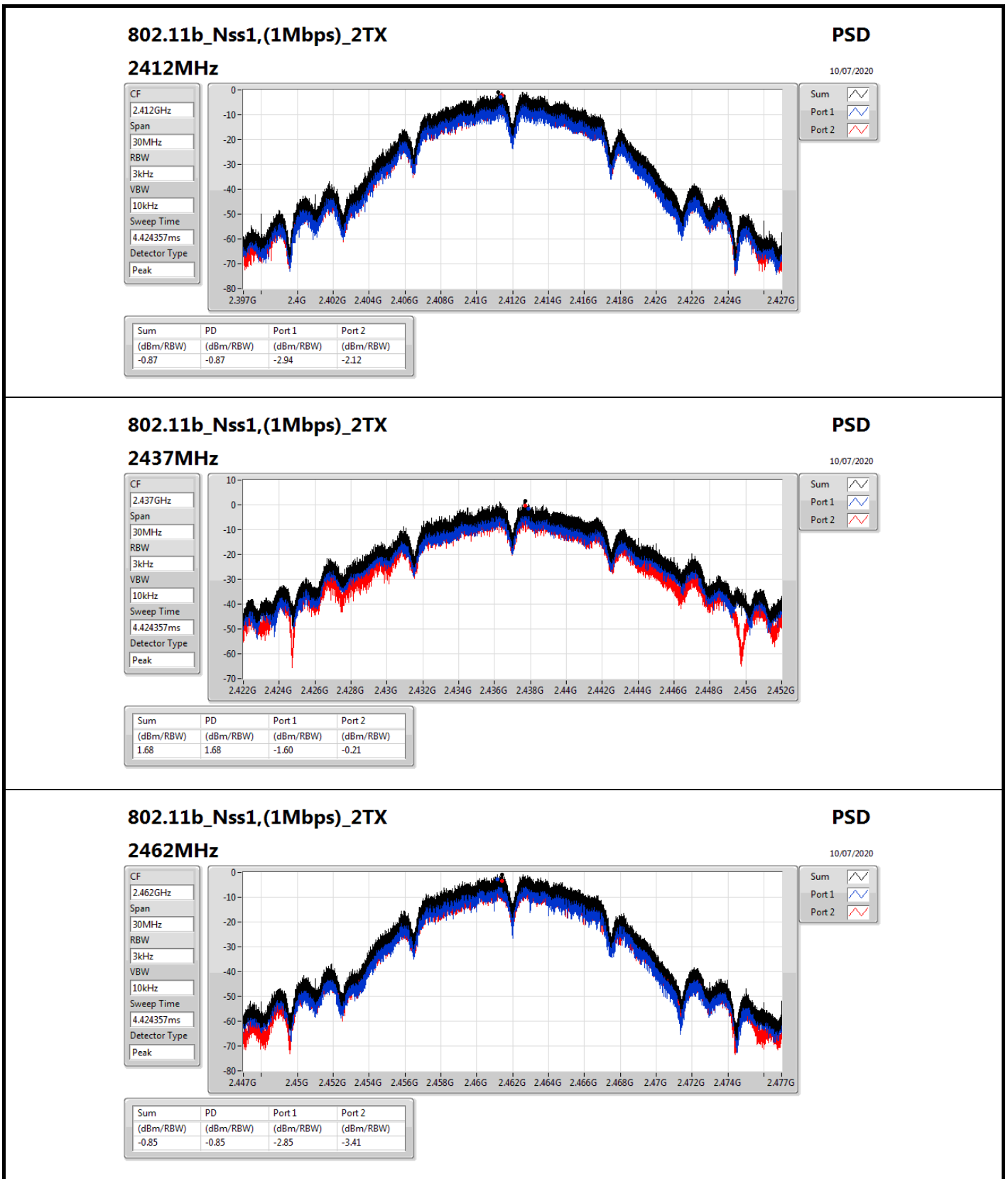
**For EUT 2 / Radio 3 / External Ant.2\_Non-Beamforming Mode  
Result**

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	11.01	-2.94	-2.12	-0.87	2.99
2437MHz	Pass	11.01	-1.60	-0.21	1.68	2.99
2462MHz	Pass	11.01	-2.85	-3.41	-0.85	2.99
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	11.01	-12.77	-12.23	-9.60	2.99
2437MHz	Pass	11.01	-7.01	-5.24	-3.59	2.99
2462MHz	Pass	11.01	-12.66	-12.89	-9.88	2.99
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	11.01	-12.12	-11.04	-8.54	2.99
2437MHz	Pass	11.01	-7.72	-7.13	-4.40	2.99
2462MHz	Pass	11.01	-14.45	-12.52	-11.55	2.99
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	11.01	-16.65	-16.14	-13.62	2.99
2437MHz	Pass	11.01	-14.74	-14.15	-12.17	2.99
2452MHz	Pass	11.01	-16.41	-16.59	-13.84	2.99

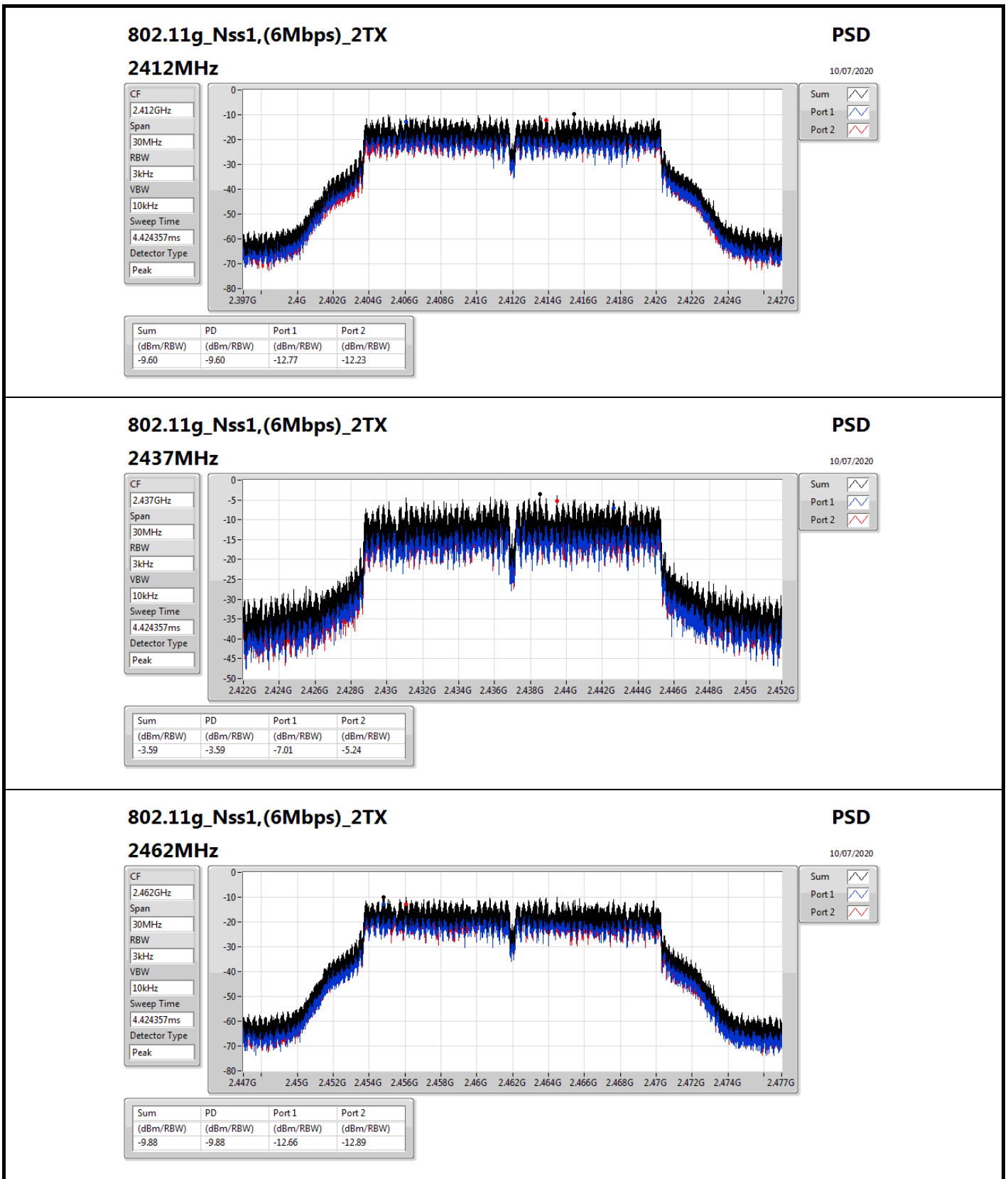
**DG** = Directional Gain; **RBW** = 500 kHz for 5.725-5.85GHz band / 1MHz for other band;

**PD** = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

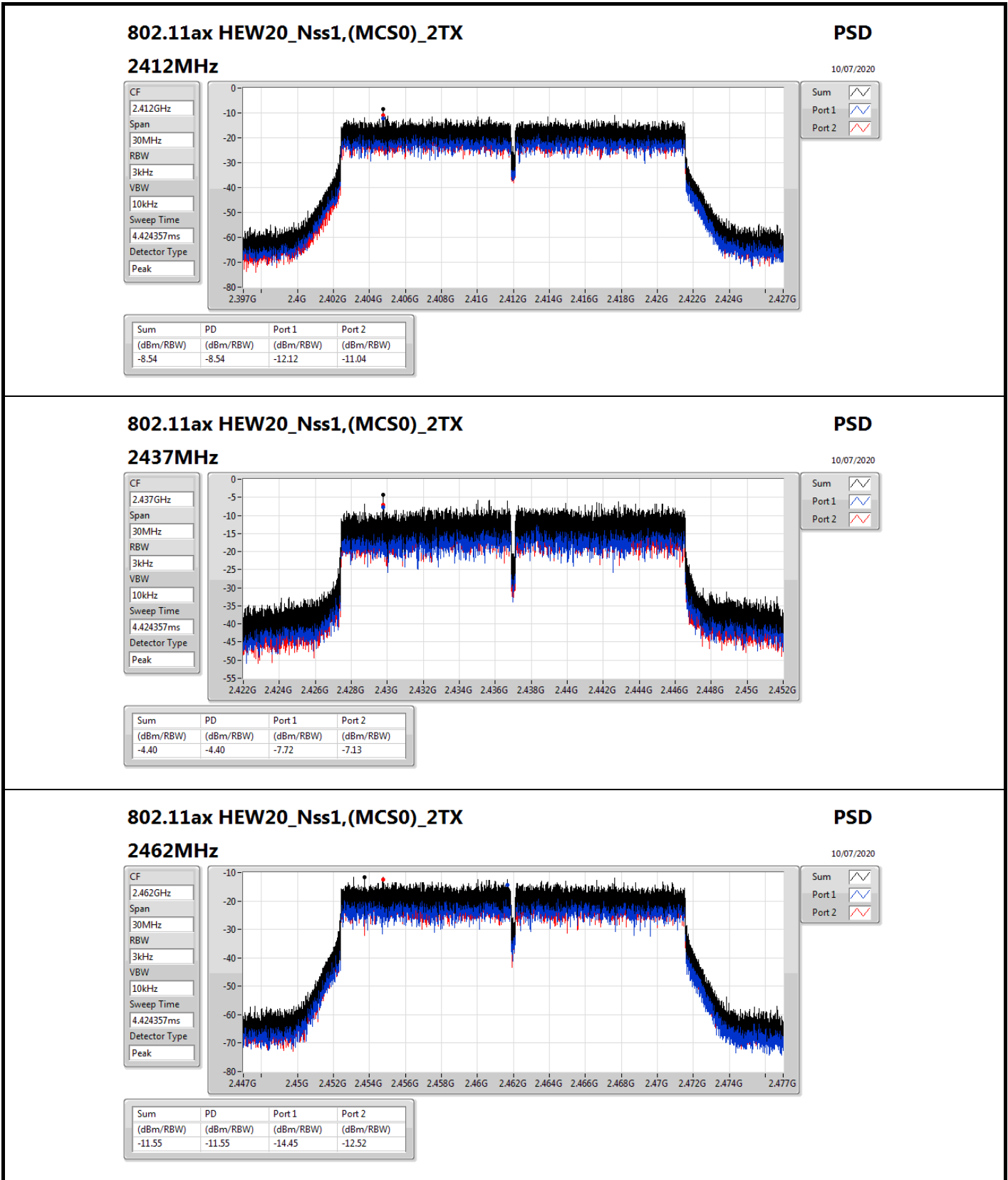
For EUT 2 / Radio 3 / External Ant.2\_Non-Beamforming Mode



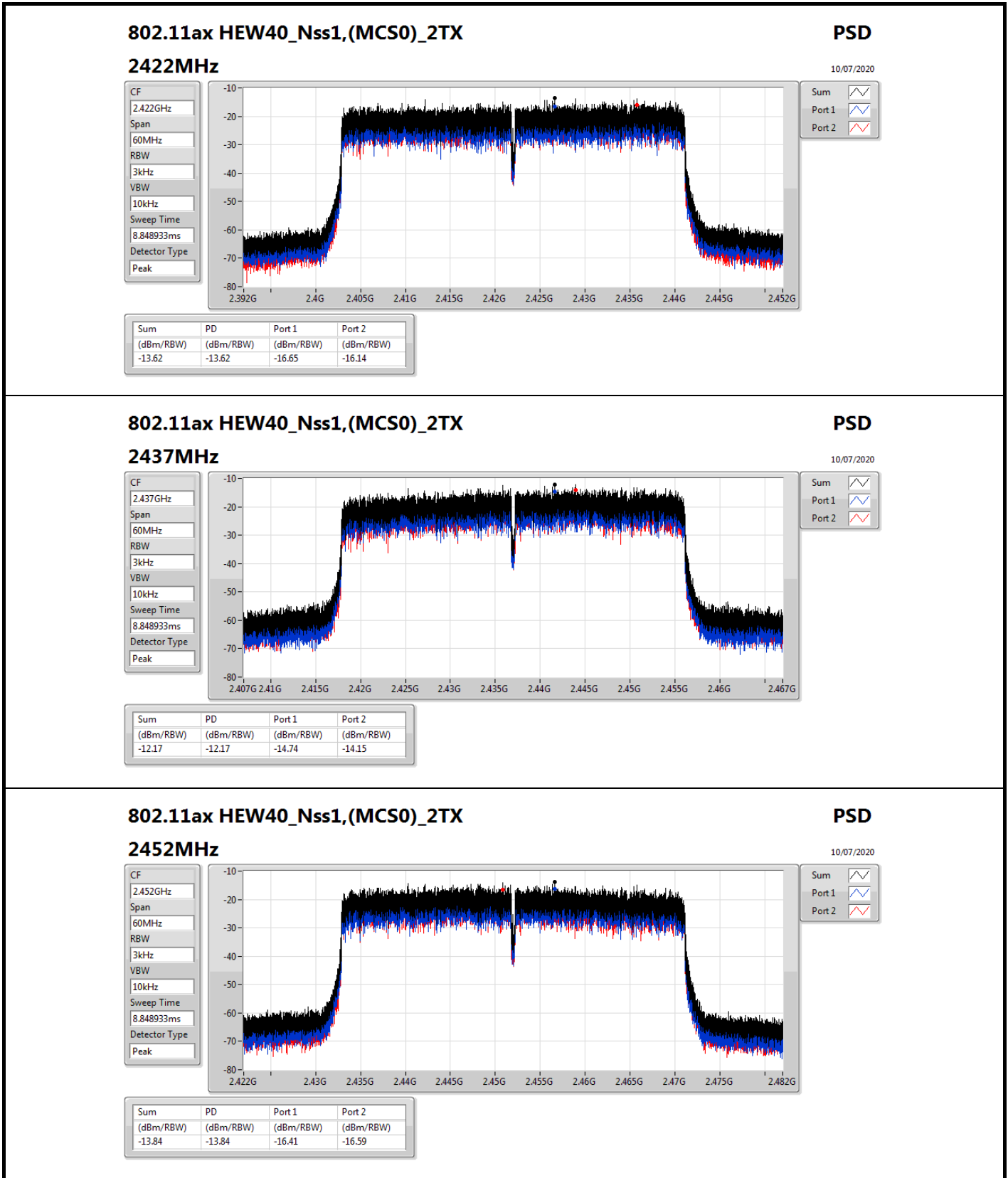
For EUT 2 / Radio 3 / External Ant.2\_Non-Beamforming Mode



For EUT 2 / Radio 3 / External Ant.2\_Non-Beamforming Mode



For EUT 2 / Radio 3 / External Ant.2\_Non-Beamforming Mode



### 802.11ax HEW40\_Nss1,(MCS0)\_2TX

#### 2452MHz

PSD

10/07/2020

CF  
2.452GHz

Span  
60MHz

RBW  
3kHz

VBW  
10kHz

Sweep Time  
8.848933ms

Detector Type  
Peak



Sum 

Port 1 

Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-13.84	-13.84	-16.41	-16.59



**For EUT 1 / Radio 2\_Non-Beamforming Mode  
Summary**

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_4TX	Pass	2.43753G	15.79	-14.21	159.9M	-47.55	2.399G	-18.89	2.4G	-19.85	2.48596G	-47.18	17.63614G	-42.22	2
802.11g_Nss1,(6Mbps)_4TX	Pass	2.43198G	7.32	-22.68	159.9M	-45.90	2.39982G	-27.73	2.4G	-30.95	2.48738G	-50.45	23.58117G	-42.99	2
802.11ax HEW20_Nss1,(MCS0)_4TX	Pass	2.44451G	7.48	-22.52	159.9M	-47.67	2.39998G	-28.75	2.4G	-39.74	2.484G	-50.61	16.59941G	-42.48	1
802.11ax HEW40_Nss1,(MCS0)_4TX	Pass	2.45448G	3.30	-26.70	159.96M	-48.46	2.39952G	-32.27	2.4G	-37.87	2.48358G	-39.44	16.26379G	-43.64	3



For EUT 1 / Radio 2\_Non-Beamforming Mode  
Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43753G	15.79	-14.21	159.9M	-46.49	2.39902G	-22.56	2.4G	-23.08	2.48854G	-48.65	16.57412G	-42.70	1
2412MHz	Pass	2.43753G	15.79	-14.21	159.9M	-47.55	2.399G	-18.89	2.4G	-19.85	2.48596G	-47.18	17.63614G	-42.22	2
2412MHz	Pass	2.43753G	15.79	-14.21	159.9M	-48.29	2.4G	-24.32	2.4G	-24.64	2.49524G	-49.30	16.24821G	-41.95	3
2412MHz	Pass	2.43753G	15.79	-14.21	159.9M	-46.92	2.39998G	-25.29	2.4G	-24.73	2.4887G	-50.18	16.20326G	-43.52	4
2437MHz	Pass	2.43753G	15.79	-14.21	159.9M	-45.59	2.39952G	-40.74	2.4G	-43.11	2.49092G	-45.50	16.26226G	-42.63	1
2437MHz	Pass	2.43753G	15.79	-14.21	159.9M	-45.49	2.3965G	-39.06	2.4G	-46.40	2.48568G	-44.02	24.71062G	-42.63	2
2437MHz	Pass	2.43753G	15.79	-14.21	159.9M	-46.12	2.3995G	-38.21	2.4G	-41.45	2.48548G	-44.33	16.29036G	-42.81	3
2437MHz	Pass	2.43753G	15.79	-14.21	159.9M	-47.34	2.4G	-47.05	2.4835G	-48.64	2.48578G	-46.26	16.21731G	-43.27	4
2462MHz	Pass	2.43753G	15.79	-14.21	159.9M	-46.22	2.39394G	-51.09	2.4835G	-43.91	2.48592G	-45.83	16.27631G	-43.35	1
2462MHz	Pass	2.43753G	15.79	-14.21	159.9M	-46.74	2.3925G	-51.40	2.4835G	-42.50	2.4835G	-42.46	24.53642G	-42.77	2
2462MHz	Pass	2.43753G	15.79	-14.21	159.9M	-46.71	2.39894G	-50.26	2.4835G	-45.87	2.48454G	-45.99	16.92813G	-43.04	3
2462MHz	Pass	2.43753G	15.79	-14.21	159.9M	-47.94	2.4G	-51.50	2.4835G	-45.74	2.48614G	-45.28	17.64457G	-42.23	4
802.11g_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43198G	7.32	-22.68	159.9M	-45.89	2.3995G	-30.42	2.4G	-32.26	2.48808G	-51.25	24.67409G	-43.47	1
2412MHz	Pass	2.43198G	7.32	-22.68	159.9M	-45.90	2.39982G	-27.73	2.4G	-30.95	2.48738G	-50.45	23.58117G	-42.99	2
2412MHz	Pass	2.43198G	7.32	-22.68	159.9M	-48.47	2.39982G	-27.99	2.4G	-34.51	2.49636G	-50.72	16.64155G	-43.20	3
2412MHz	Pass	2.43198G	7.32	-22.68	159.9M	-45.97	2.39918G	-28.76	2.4G	-31.71	2.48658G	-50.51	23.57555G	-42.76	4
2437MHz	Pass	2.43198G	7.32	-22.68	159.9M	-46.99	2.39402G	-42.71	2.4G	-46.20	2.48424G	-49.33	23.59803G	-43.13	1
2437MHz	Pass	2.43198G	7.32	-22.68	159.9M	-48.33	2.39938G	-46.23	2.4G	-49.54	2.48418G	-48.96	15.2171G	-43.35	2
2437MHz	Pass	2.43198G	7.32	-22.68	159.9M	-47.87	2.39826G	-44.52	2.4G	-44.72	2.48606G	-47.68	16.63312G	-42.09	3
2437MHz	Pass	2.43198G	7.32	-22.68	159.9M	-46.64	2.3995G	-43.26	2.4G	-46.29	2.48354G	-47.00	17.64457G	-43.25	4
2462MHz	Pass	2.43198G	7.32	-22.68	159.9M	-47.05	2.39648G	-51.19	2.4835G	-44.95	2.48386G	-43.38	23.37326G	-43.26	1
2462MHz	Pass	2.43198G	7.32	-22.68	159.9M	-47.22	2.39962G	-52.02	2.4835G	-42.84	2.48486G	-43.30	16.6275G	-42.72	2
2462MHz	Pass	2.43198G	7.32	-22.68	159.9M	-46.19	2.39726G	-52.05	2.4835G	-44.42	2.48388G	-42.20	24.22737G	-43.30	3
2462MHz	Pass	2.43198G	7.32	-22.68	159.9M	-47.28	2.39972G	-51.68	2.4835G	-45.50	2.48452G	-42.33	16.64436G	-42.59	4
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.44451G	7.48	-22.52	159.9M	-47.67	2.39998G	-28.75	2.4G	-39.74	2.484G	-50.61	16.59941G	-42.48	1
2412MHz	Pass	2.44451G	7.48	-22.52	159.9M	-47.18	2.39996G	-29.67	2.4G	-29.51	2.48722G	-51.25	16.25945G	-42.79	2
2412MHz	Pass	2.44451G	7.48	-22.52	159.9M	-48.03	2.39988G	-28.92	2.4G	-30.13	2.49548G	-51.08	15.20306G	-42.95	3
2412MHz	Pass	2.44451G	7.48	-22.52	159.9M	-47.38	2.39988G	-29.80	2.4G	-39.97	2.51694G	-50.49	17.66704G	-43.19	4
2437MHz	Pass	2.44451G	7.48	-22.52	159.9M	-46.69	2.3989G	-42.38	2.4G	-43.86	2.48378G	-42.75	23.35922G	-43.37	1
2437MHz	Pass	2.44451G	7.48	-22.52	159.9M	-46.98	2.39924G	-41.40	2.4835G	-47.01	2.48446G	-44.68	23.33955G	-43.30	2
2437MHz	Pass	2.44451G	7.48	-22.52	159.9M	-47.98	2.39892G	-40.36	2.4835G	-45.25	2.4847G	-43.01	16.25664G	-43.31	3
2437MHz	Pass	2.44451G	7.48	-22.52	159.9M	-45.64	2.3986G	-42.60	2.4G	-47.17	2.48358G	-43.59	21.48805G	-43.48	4
2462MHz	Pass	2.44451G	7.48	-22.52	159.9M	-47.06	2.39144G	-51.92	2.4835G	-43.68	2.48352G	-43.14	16.24821G	-42.95	1
2462MHz	Pass	2.44451G	7.48	-22.52	159.9M	-46.44	2.39718G	-52.37	2.4835G	-46.10	2.48358G	-43.76	25G	-42.73	2
2462MHz	Pass	2.44451G	7.48	-22.52	159.9M	-46.91	2.39754G	-51.87	2.4835G	-45.14	2.48388G	-44.37	16.40555G	-43.47	3
2462MHz	Pass	2.44451G	7.48	-22.52	159.9M	-47.13	2.39986G	-52.15	2.4835G	-41.76	2.48358G	-42.58	24.95224G	-42.52	4
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.45448G	3.30	-26.70	159.96M	-46.27	2.39676G	-36.65	2.4G	-41.09	2.4959G	-50.61	23.59211G	-42.67	1
2422MHz	Pass	2.45448G	3.30	-26.70	159.96M	-46.92	2.39832G	-35.67	2.4G	-40.70	2.48414G	-49.72	17.60998G	-43.03	2
2422MHz	Pass	2.45448G	3.30	-26.70	159.96M	-46.84	2.39444G	-33.25	2.4G	-40.52	2.48494G	-50.31	24.69711G	-43.22	3
2422MHz	Pass	2.45448G	3.30	-26.70	159.96M	-46.16	2.39676G	-35.37	2.4G	-41.70	2.4835G	-50.35	24.59053G	-42.96	4
2437MHz	Pass	2.45448G	3.30	-26.70	159.96M	-47.22	2.39952G	-33.79	2.4G	-39.93	2.48358G	-41.65	16.23574G	-43.58	1
2437MHz	Pass	2.45448G	3.30	-26.70	159.96M	-47.85	2.39948G	-34.53	2.4G	-40.89	2.48358G	-39.21	16.27781G	-43.12	2
2437MHz	Pass	2.45448G	3.30	-26.70	159.96M	-48.46	2.39952G	-32.27	2.4G	-37.87	2.48358G	-39.44	16.26379G	-43.64	3

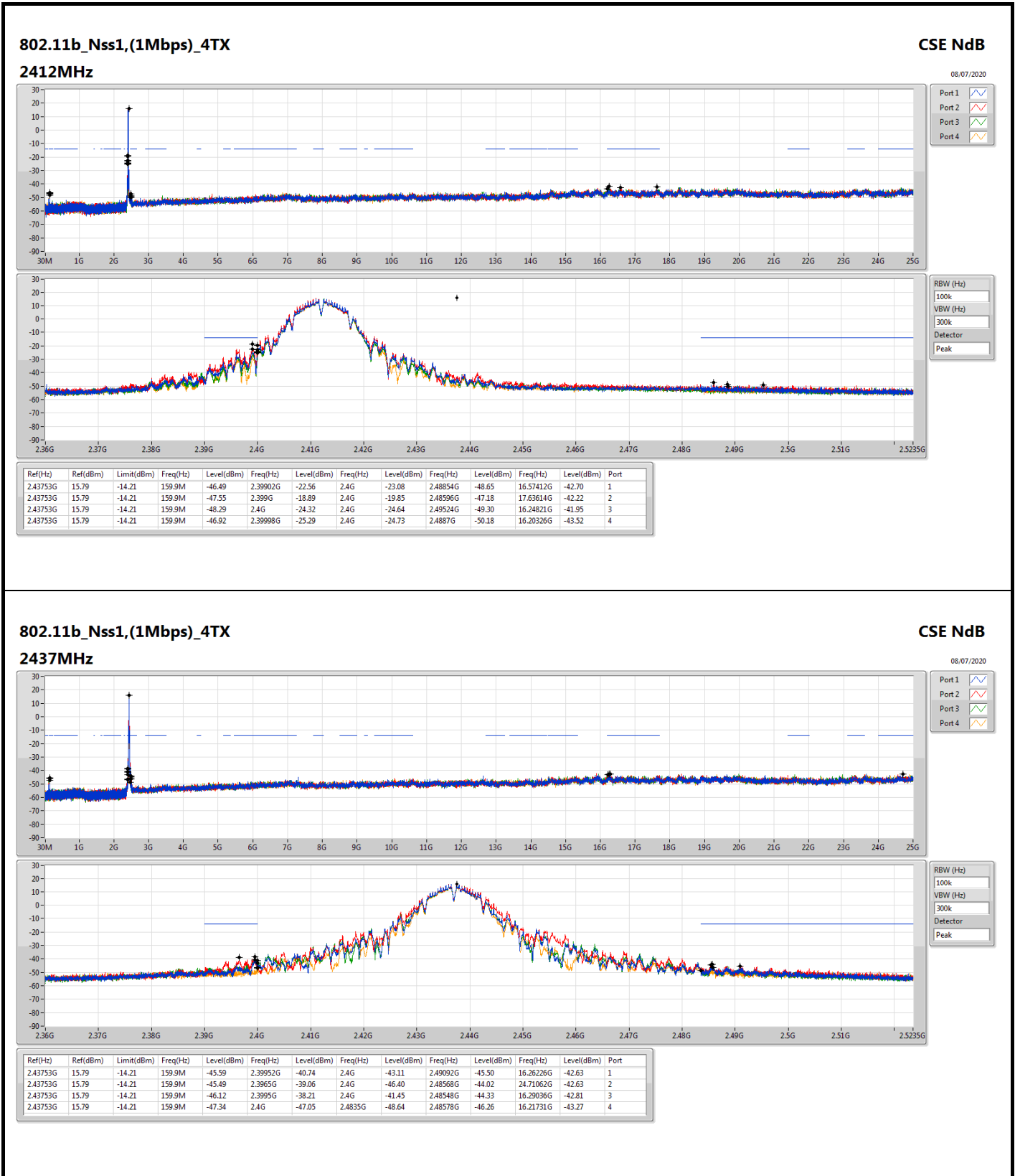




For EUT 1 / Radio 2\_Non-Beamforming Mode

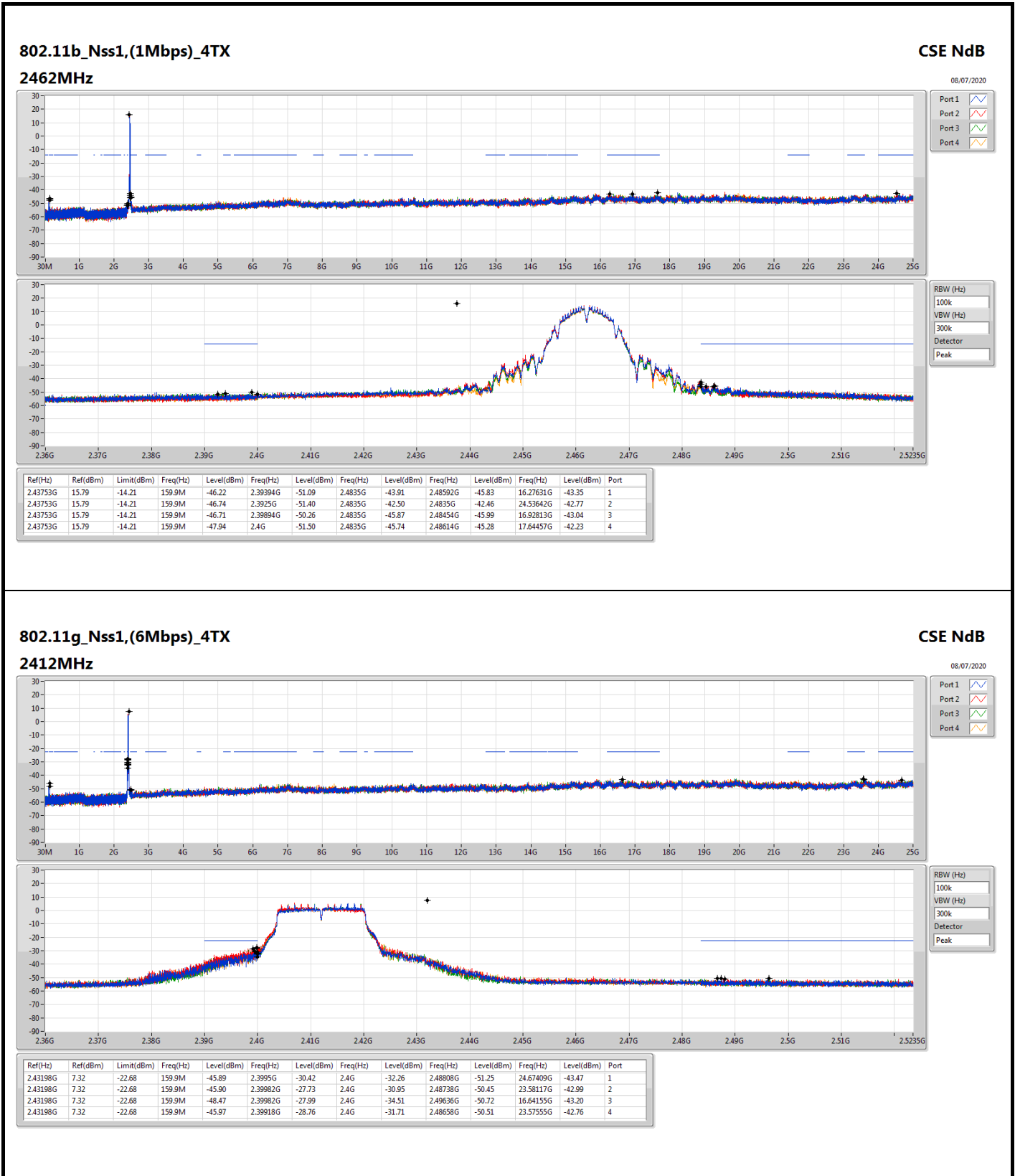
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2437MHz	Pass	2.45448G	3.30	-26.70	159.96M	-45.99	2.39956G	-34.02	2.4G	-39.45	2.48358G	-39.65	24.95793G	-42.27	4
2452MHz	Pass	2.45448G	3.30	-26.70	159.96M	-47.35	2.395G	-47.86	2.4835G	-45.18	2.48558G	-39.78	15.29341G	-42.68	1
2452MHz	Pass	2.45448G	3.30	-26.70	159.96M	-47.15	2.39792G	-48.22	2.4835G	-45.07	2.48638G	-41.87	16.23574G	-43.33	2
2452MHz	Pass	2.45448G	3.30	-26.70	159.96M	-46.41	2.39708G	-48.86	2.4835G	-43.75	2.48362G	-38.65	23.25837G	-42.82	3
2452MHz	Pass	2.45448G	3.30	-26.70	159.96M	-47.31	2.39796G	-48.09	2.4835G	-45.89	2.48474G	-41.07	21.52234G	-43.11	4

For EUT 1 / Radio 2\_Non-Beamforming Mode

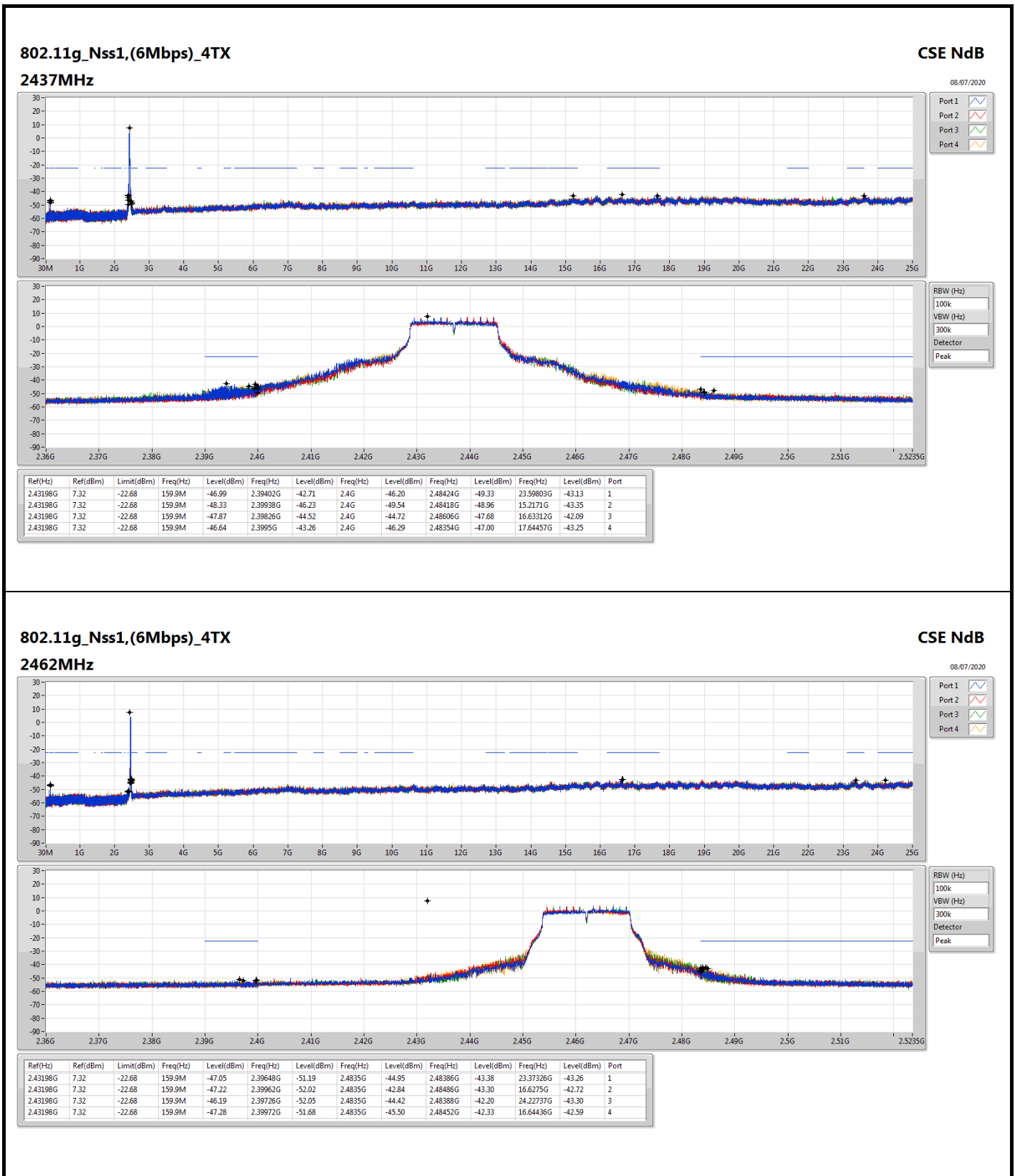




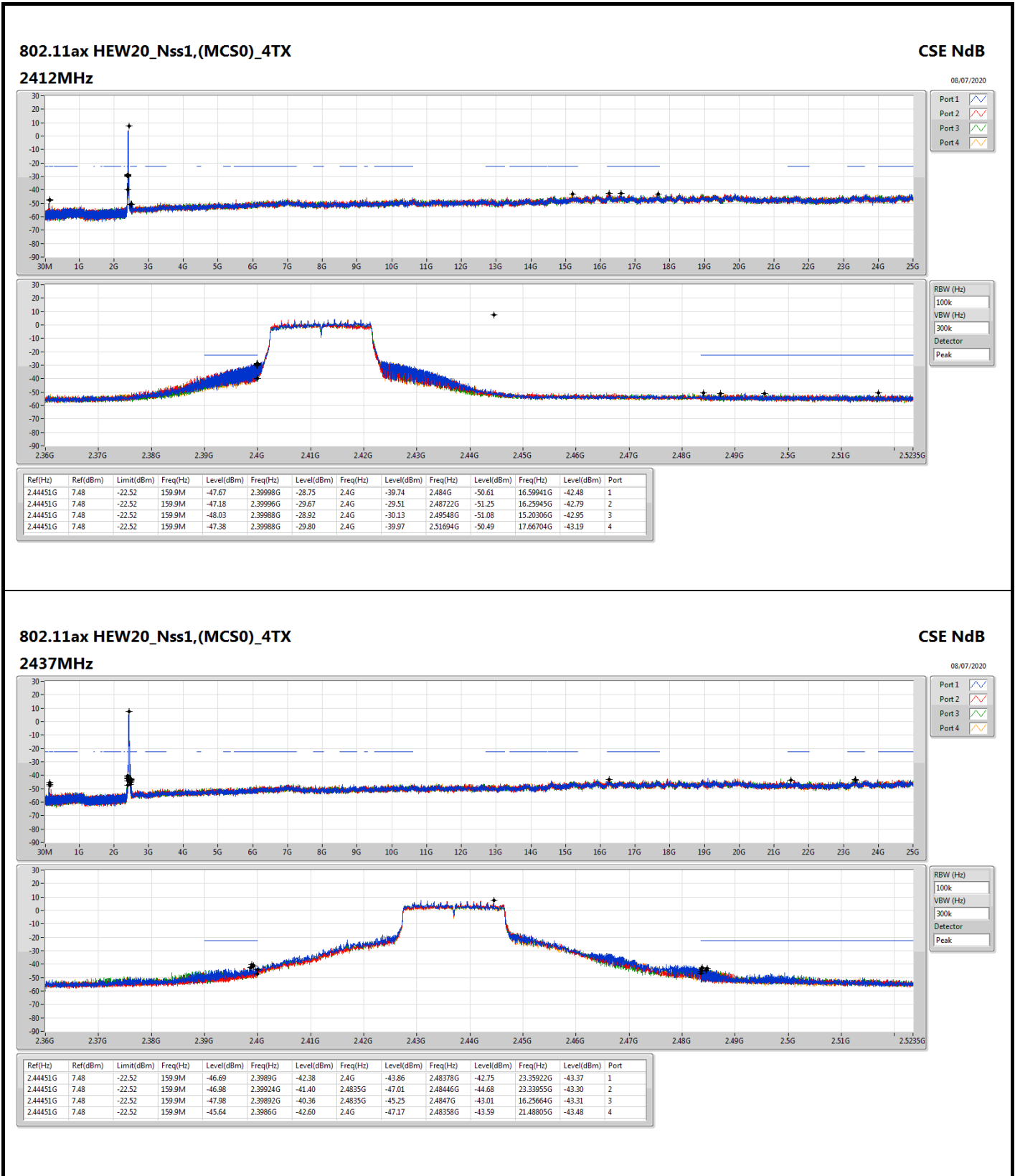
For EUT 1 / Radio 2\_Non-Beamforming Mode



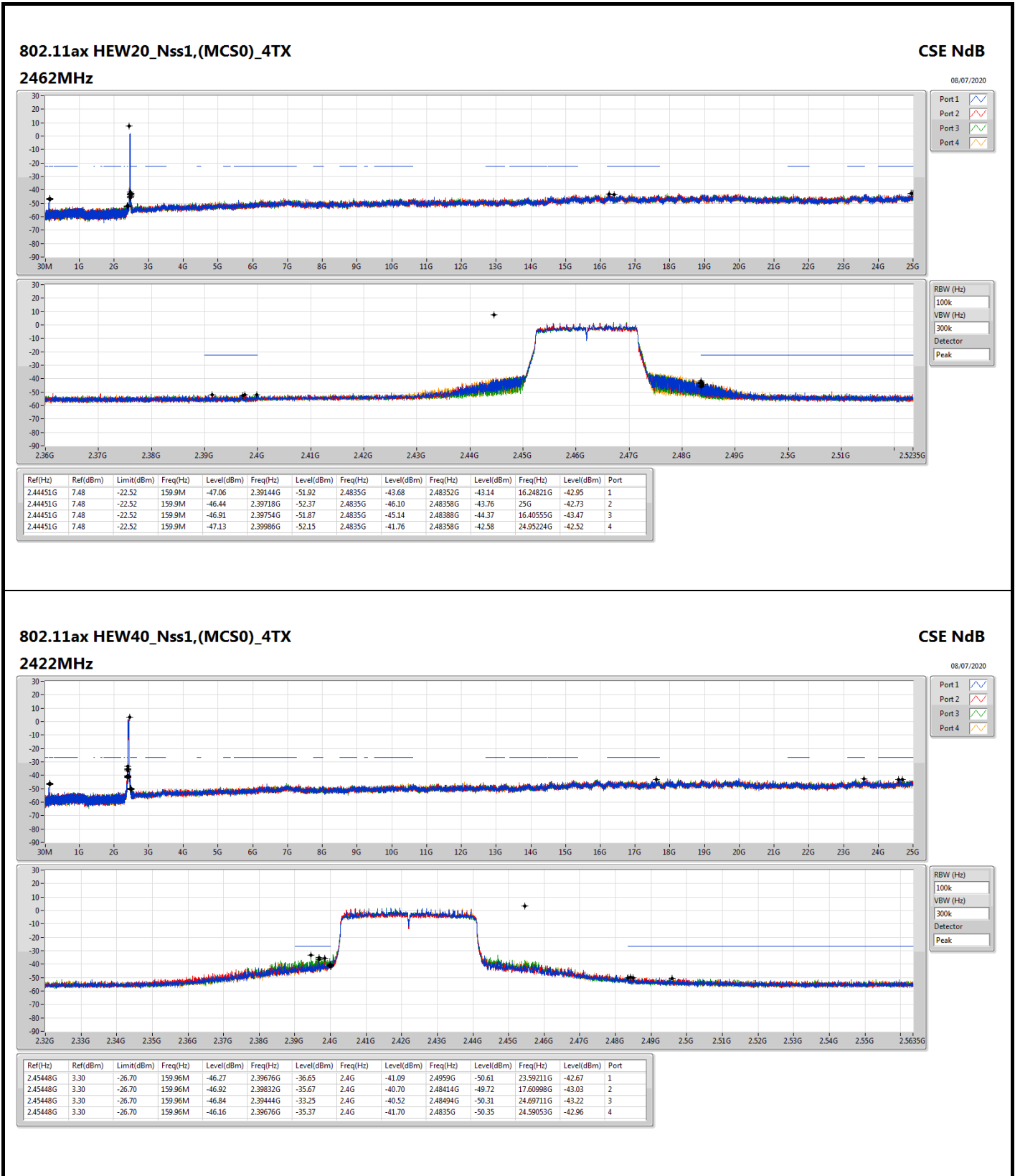
For EUT 1 / Radio 2\_Non-Beamforming Mode



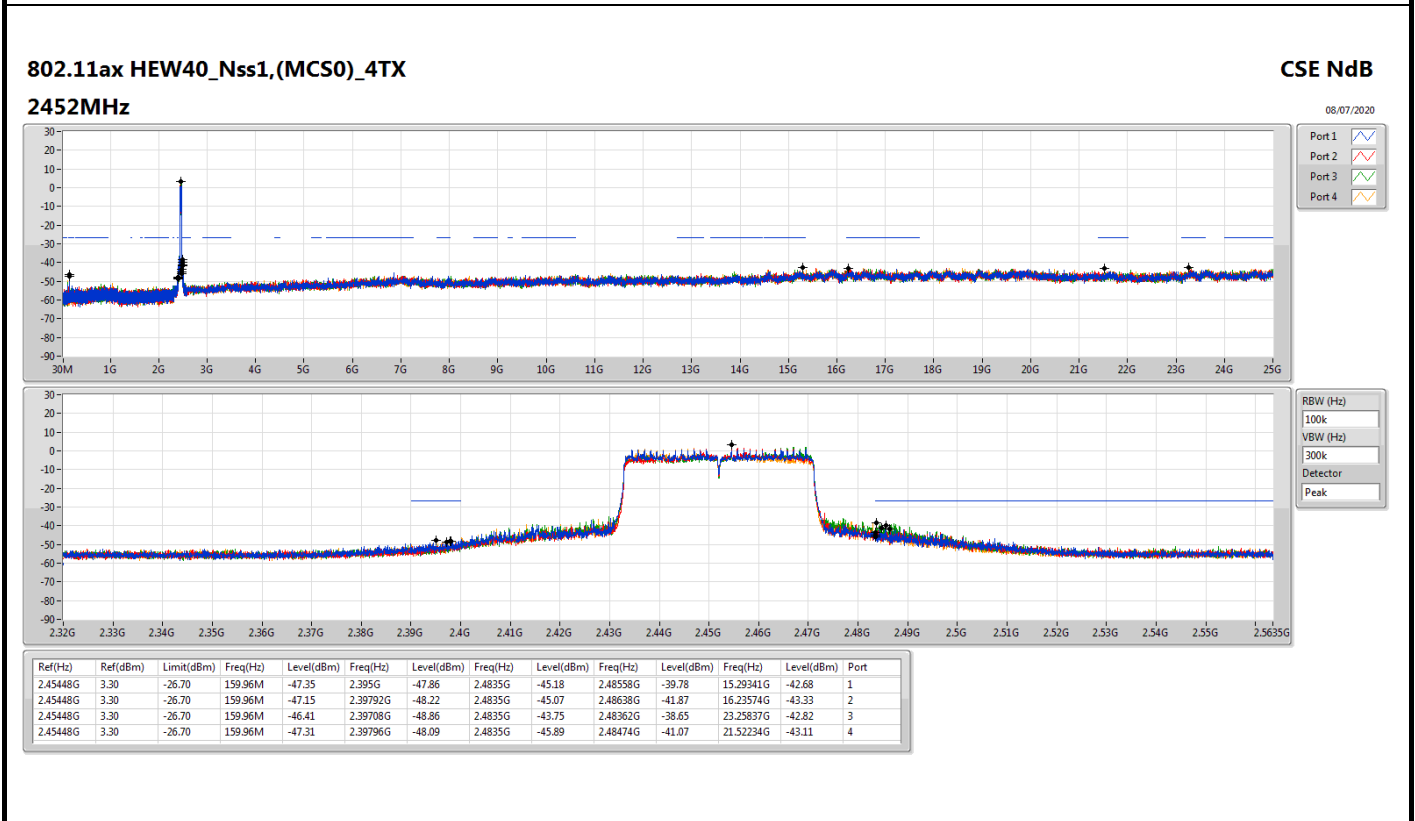
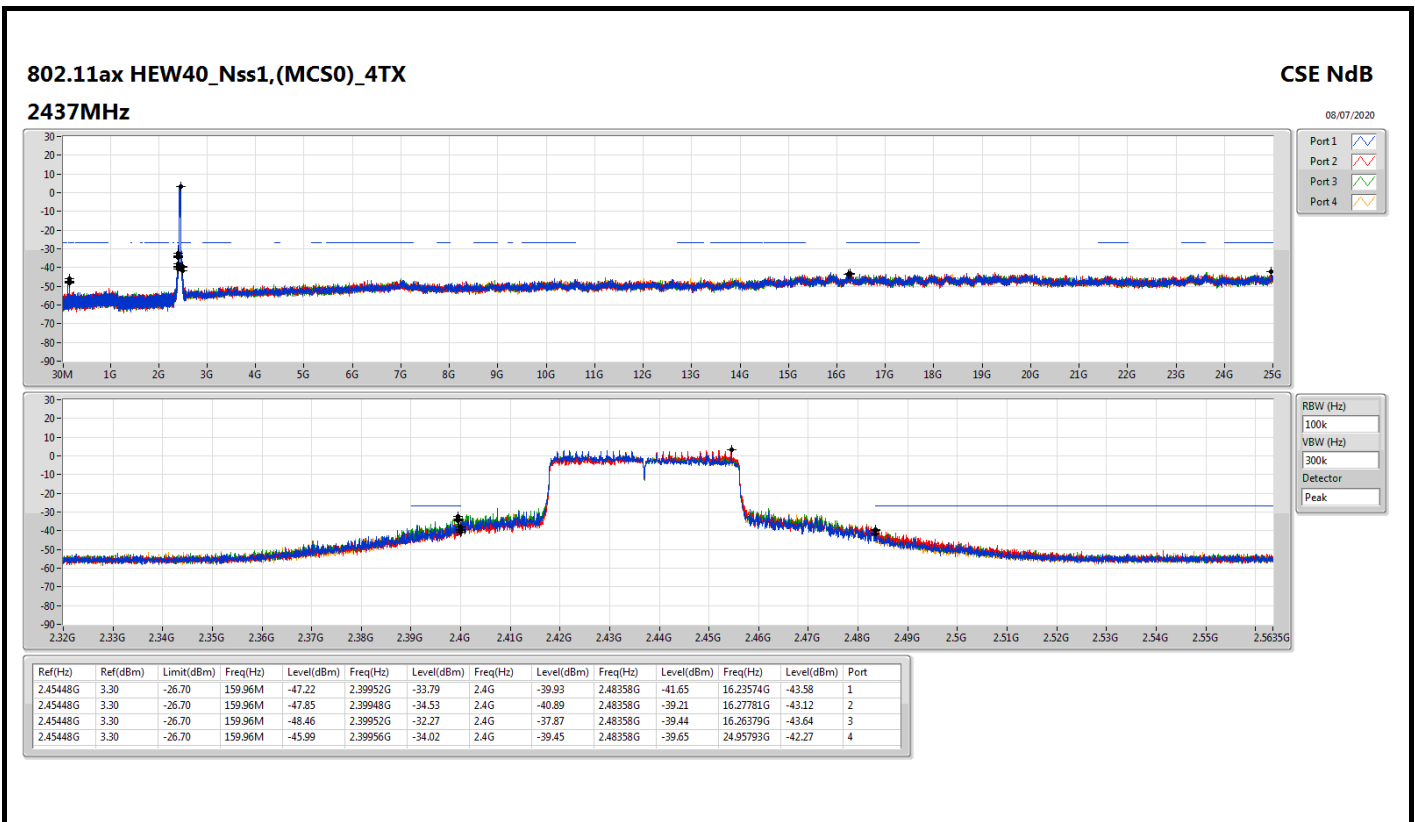
For EUT 1 / Radio 2\_Non-Beamforming Mode



For EUT 1 / Radio 2\_Non-Beamforming Mode



For EUT 1 / Radio 2\_Non-Beamforming Mode





**For EUT 1 / Radio 3\_Non-Beamforming Mode  
Summary**

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	Pass	2.43749G	15.27	-14.73	159.9M	-45.23	2.39904G	-24.60	2.4G	-24.92	2.48632G	-49.65	23.25245G	-43.57	1
802.11g_Nss1,(6Mbps)_2TX	Pass	2.4395G	7.40	-22.60	159.9M	-47.59	2.39976G	-29.14	2.4G	-31.08	2.49736G	-50.93	23.53622G	-42.61	2
802.11ax HEW20_Nss1,(MCS0)_2TX	Pass	2.442G	7.29	-22.71	159.9M	-47.89	2.39884G	-23.40	2.4G	-24.06	2.48618G	-50.41	24.71623G	-42.98	1
802.11ax HEW40_Nss1,(MCS0)_2TX	Pass	2.44075G	2.50	-27.50	159.96M	-47.55	2.39952G	-29.28	2.4G	-37.35	2.48354G	-39.05	23.42103G	-42.24	2

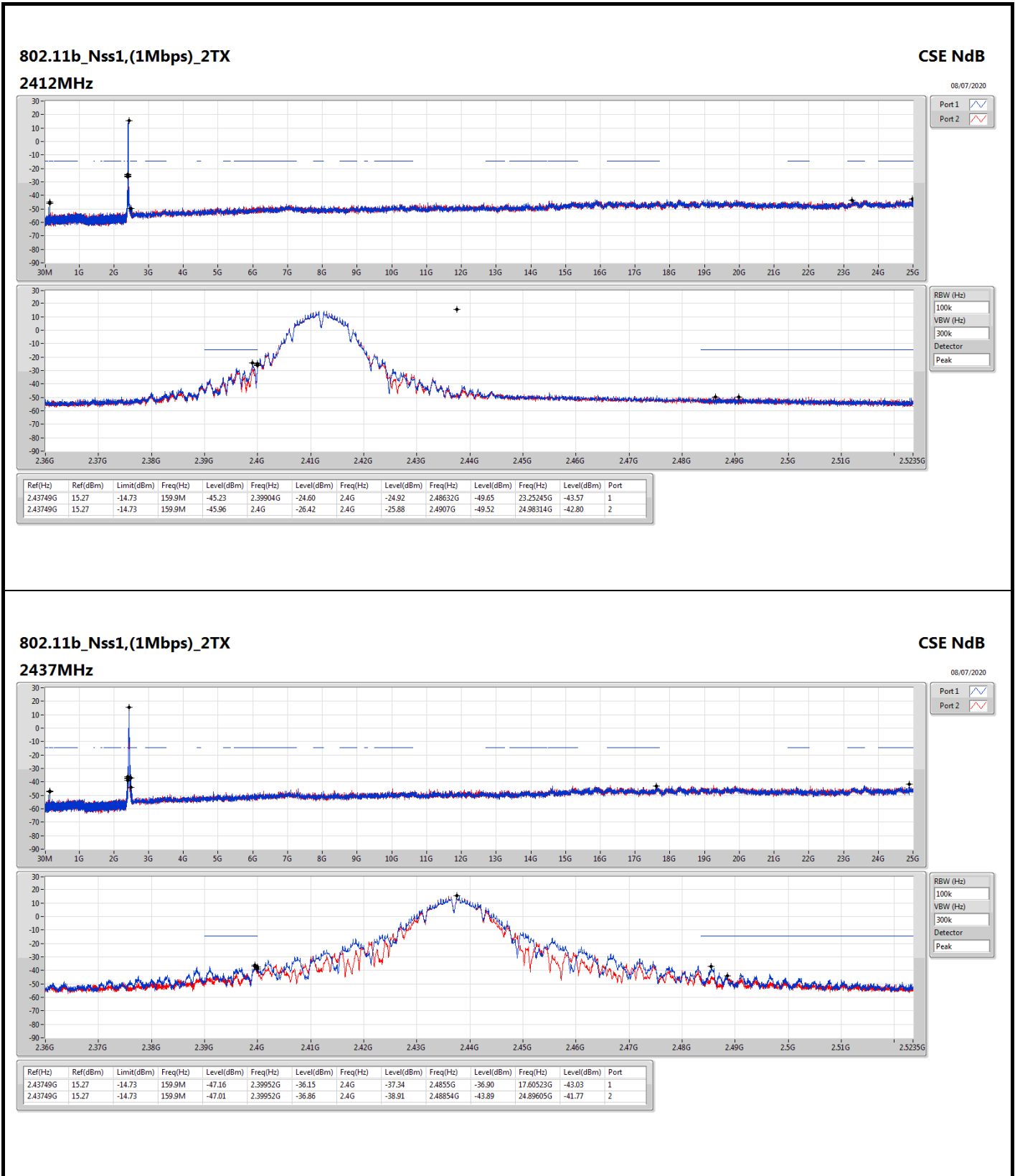




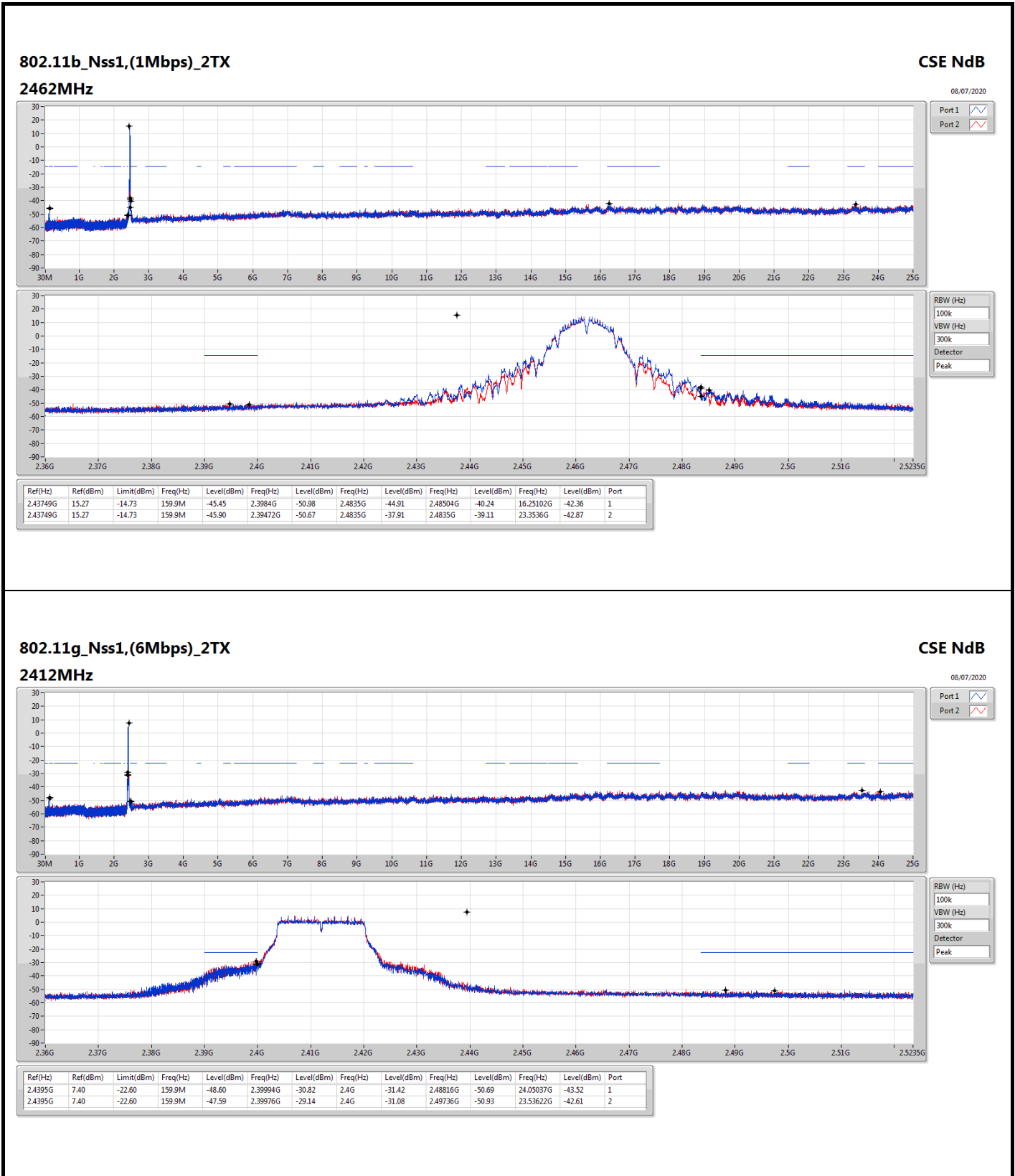
For EUT 1 / Radio 3\_Non-Beamforming Mode  
Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43749G	15.27	-14.73	159.9M	-45.23	2.39904G	-24.60	2.4G	-24.92	2.48632G	-49.65	23.25245G	-43.57	1
2412MHz	Pass	2.43749G	15.27	-14.73	159.9M	-45.96	2.4G	-26.42	2.4G	-25.88	2.4907G	-49.52	24.98314G	-42.80	2
2437MHz	Pass	2.43749G	15.27	-14.73	159.9M	-47.16	2.39952G	-36.15	2.4G	-37.34	2.4855G	-36.90	17.60523G	-43.03	1
2437MHz	Pass	2.43749G	15.27	-14.73	159.9M	-47.01	2.39952G	-36.86	2.4G	-38.91	2.48854G	-43.89	24.89605G	-41.77	2
2462MHz	Pass	2.43749G	15.27	-14.73	159.9M	-45.45	2.3984G	-50.98	2.4835G	-44.91	2.48504G	-40.24	16.25102G	-42.36	1
2462MHz	Pass	2.43749G	15.27	-14.73	159.9M	-45.90	2.39472G	-50.67	2.4835G	-37.91	2.4835G	-39.11	23.3536G	-42.87	2
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.4395G	7.40	-22.60	159.9M	-48.60	2.39994G	-30.82	2.4G	-31.42	2.48816G	-50.69	24.05037G	-43.52	1
2412MHz	Pass	2.4395G	7.40	-22.60	159.9M	-47.59	2.39976G	-29.14	2.4G	-31.08	2.49736G	-50.93	23.53622G	-42.61	2
2437MHz	Pass	2.4395G	7.40	-22.60	159.9M	-47.32	2.39346G	-42.74	2.4G	-45.38	2.48406G	-46.01	24.88762G	-42.83	1
2437MHz	Pass	2.4395G	7.40	-22.60	159.9M	-46.71	2.39952G	-41.61	2.4G	-47.24	2.48394G	-45.03	24.93538G	-43.18	2
2462MHz	Pass	2.4395G	7.40	-22.60	159.9M	-46.70	2.39642G	-51.08	2.4835G	-43.03	2.48398G	-40.58	17.60242G	-42.25	1
2462MHz	Pass	2.4395G	7.40	-22.60	159.9M	-48.04	2.39174G	-51.30	2.4835G	-40.00	2.48418G	-38.75	24.98314G	-43.61	2
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.442G	7.29	-22.71	159.9M	-47.89	2.39884G	-23.40	2.4G	-24.06	2.48618G	-50.41	24.71623G	-42.98	1
2412MHz	Pass	2.442G	7.29	-22.71	159.9M	-46.49	2.39994G	-23.80	2.4G	-28.70	2.48868G	-50.45	16.86632G	-42.94	2
2437MHz	Pass	2.442G	7.29	-22.71	159.9M	-45.89	2.39794G	-42.03	2.4G	-44.96	2.48356G	-42.32	17.60523G	-42.51	1
2437MHz	Pass	2.442G	7.29	-22.71	159.9M	-47.94	2.3958G	-41.90	2.4G	-45.53	2.4836G	-42.95	16.23697G	-43.41	2
2462MHz	Pass	2.442G	7.29	-22.71	159.9M	-46.04	2.39604G	-51.79	2.4835G	-52.03	2.48422G	-40.07	16.22012G	-43.33	1
2462MHz	Pass	2.442G	7.29	-22.71	159.9M	-46.54	2.39354G	-51.71	2.4835G	-44.63	2.48412G	-41.93	24.95224G	-42.64	2
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.44075G	2.50	-27.50	159.96M	-48.38	2.39672G	-34.05	2.4G	-38.41	2.48662G	-48.89	23.29763G	-42.61	1
2422MHz	Pass	2.44075G	2.50	-27.50	159.96M	-46.96	2.3952G	-32.78	2.4G	-40.01	2.4841G	-49.55	23.54724G	-43.40	2
2437MHz	Pass	2.44075G	2.50	-27.50	159.96M	-47.27	2.3998G	-32.26	2.4G	-37.35	2.48546G	-38.73	23.37335G	-43.31	1
2437MHz	Pass	2.44075G	2.50	-27.50	159.96M	-47.55	2.39952G	-29.28	2.4G	-37.35	2.48354G	-39.05	23.42103G	-42.24	2
2452MHz	Pass	2.44075G	2.50	-27.50	159.96M	-47.00	2.39524G	-47.18	2.4835G	-43.96	2.4845G	-36.78	16.20489G	-42.57	1
2452MHz	Pass	2.44075G	2.50	-27.50	159.96M	-47.08	2.39264G	-48.67	2.4835G	-43.56	2.48446G	-34.87	16.53863G	-42.84	2

For EUT 1 / Radio 3\_Non-Beamforming Mode



For EUT 1 / Radio 3\_Non-Beamforming Mode



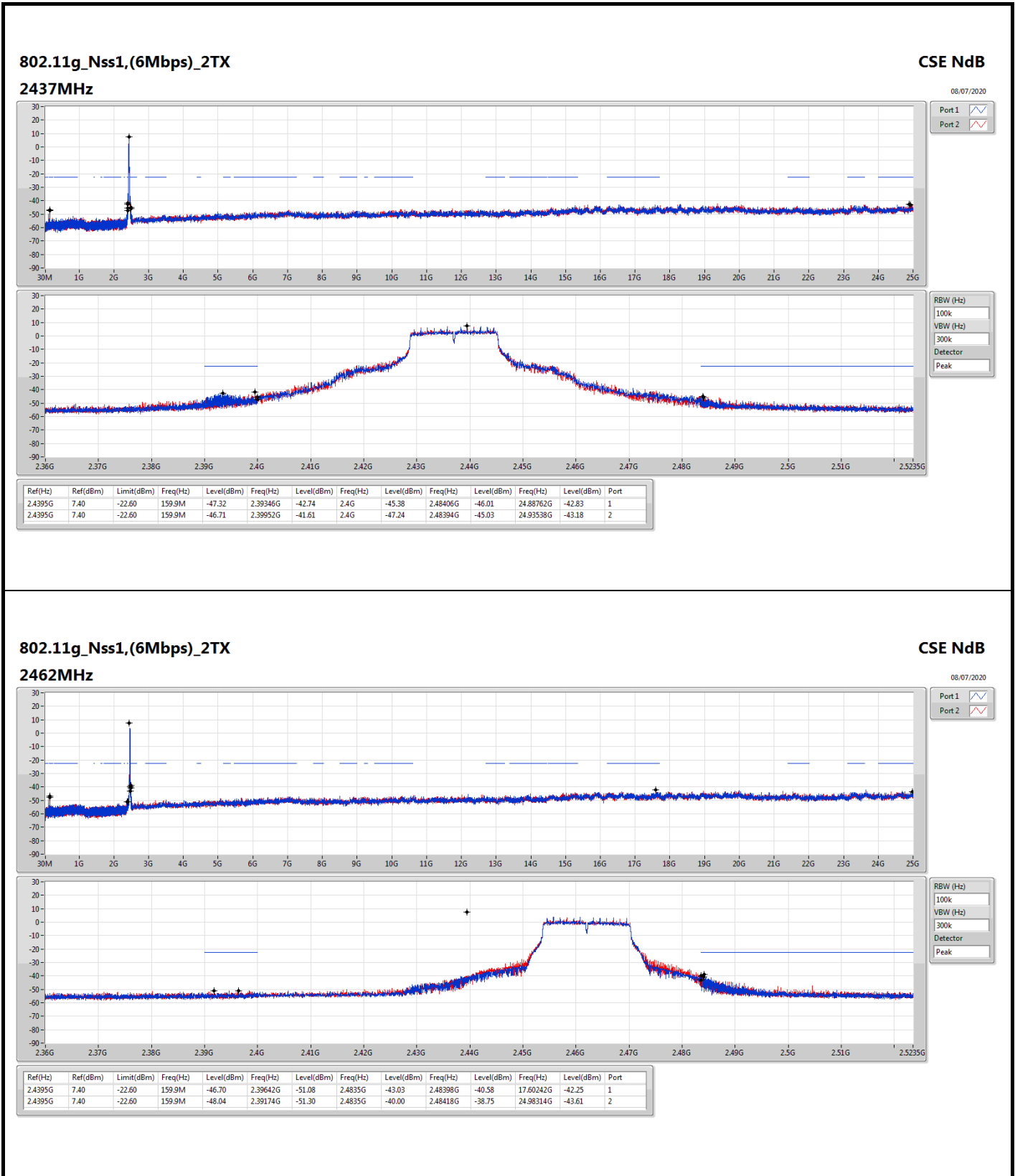
### 802.11g\_Nss1,(6Mbps)\_2TX

#### 2412MHz

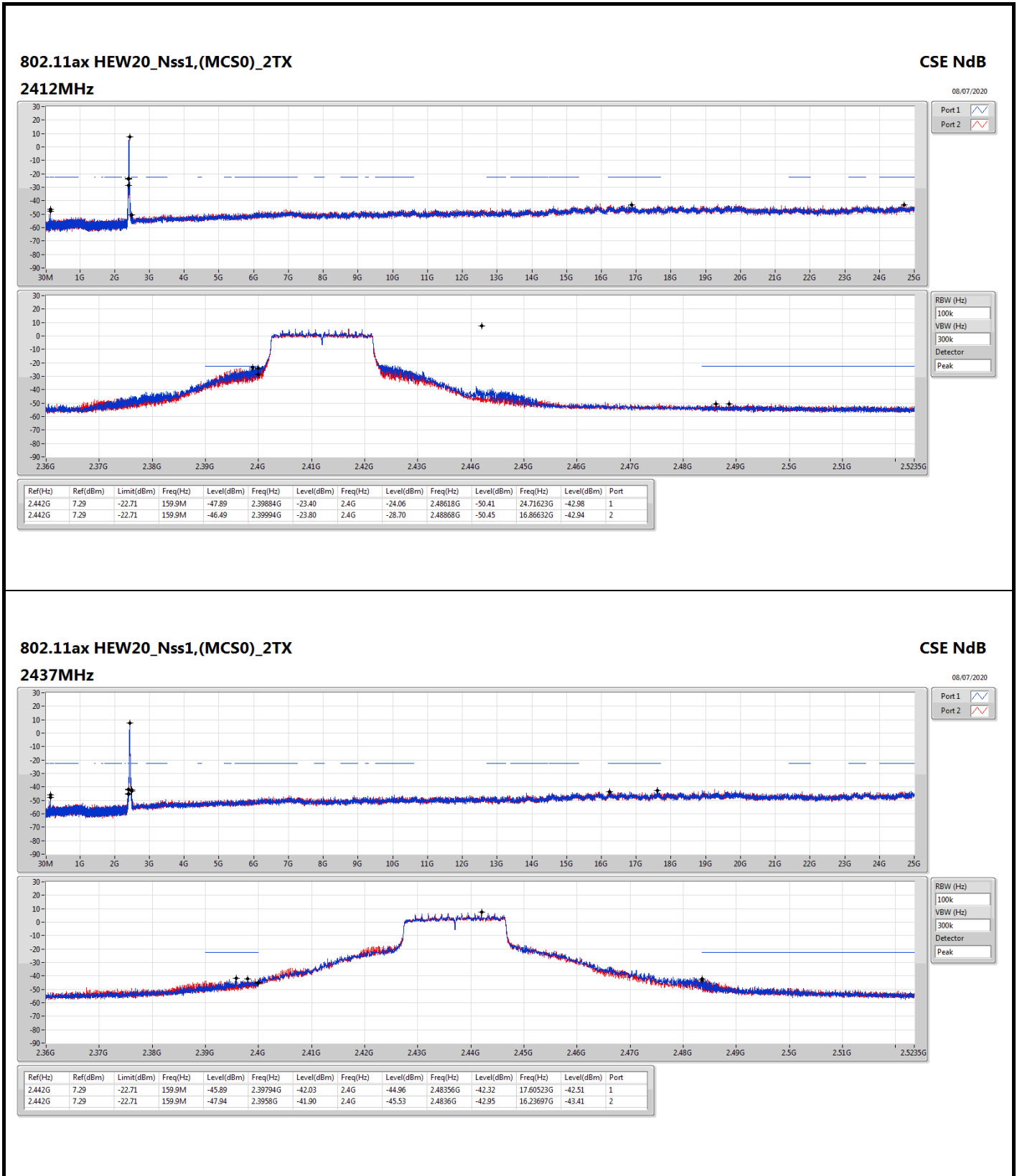
CSE NdB

08/07/2020

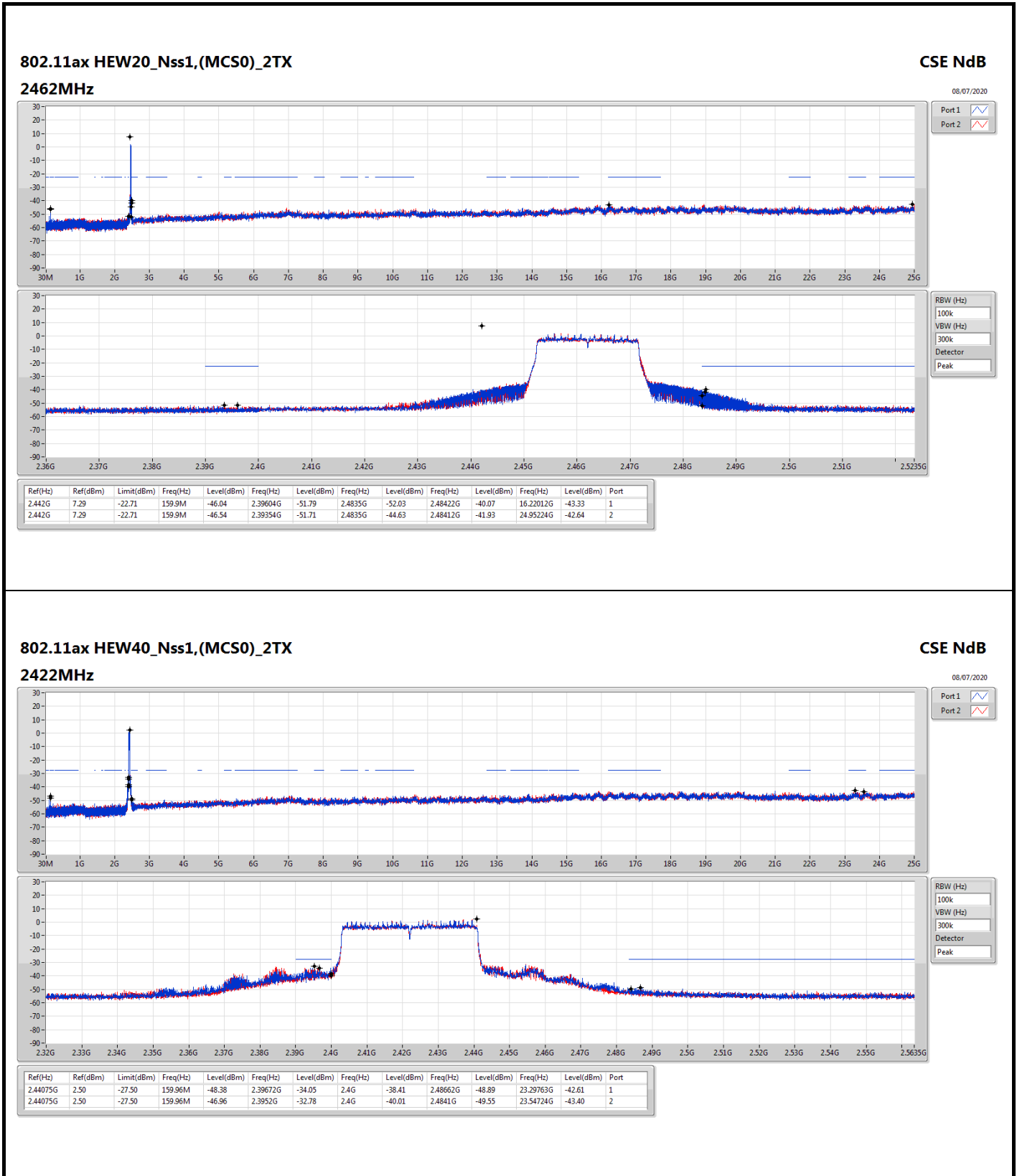
For EUT 1 / Radio 3\_Non-Beamforming Mode



For EUT 1 / Radio 3\_Non-Beamforming Mode



For EUT 1 / Radio 3\_Non-Beamforming Mode



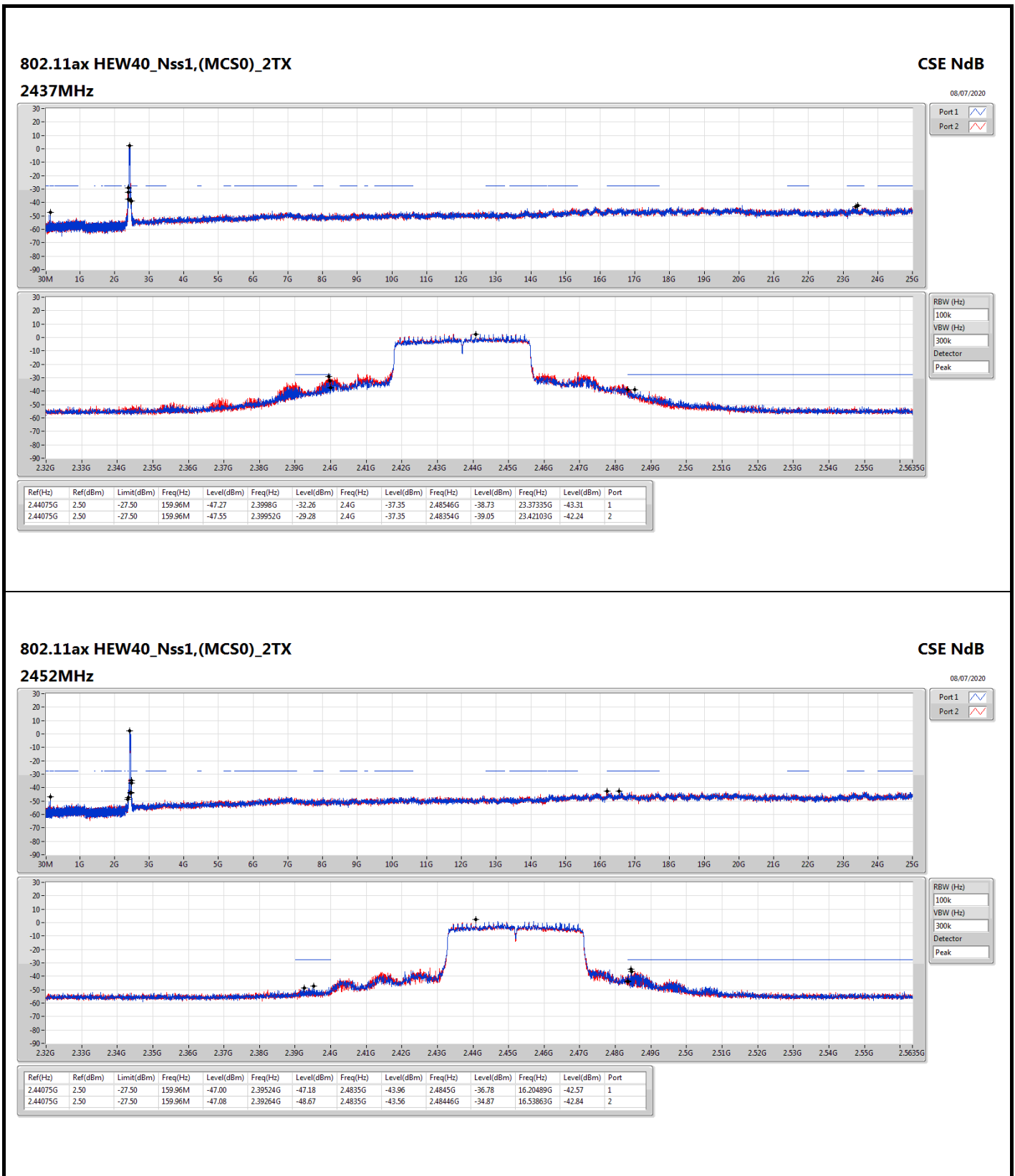
**802.11ax HEW40\_Nss1,(MCS0)\_2TX**

**2422MHz**

**CSE NdB**

08/07/2020

For EUT 1 / Radio 3\_Non-Beamforming Mode





For EUT 2 / Radio 2 / External Ant.1\_Non-Beamforming Mode  
Summary

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_4TX	Pass	2.43599G	14.69	-15.31	426.68M	-54.18	2.39998G	-26.28	2.4G	-27.85	2.4883G	-51.52	23.25526G	-46.28	2
802.11g_Nss1,(6Mbps)_4TX	Pass	2.44451G	9.36	-20.64	842.3M	-53.02	2.39976G	-33.64	2.4G	-37.38	2.50096G	-52.79	15.03729G	-45.36	4
802.11ax HEW20_Nss1,(MCS0)_4TX	Pass	2.4395G	8.91	-21.09	2.09846G	-53.89	2.4G	-35.65	2.4G	-34.95	2.48912G	-40.18	23.41541G	-45.24	4
802.11ax HEW40_Nss1,(MCS0)_4TX	Pass	2.45448G	2.19	-27.81	2.12048G	-53.72	2.3992G	-38.55	2.4G	-42.75	2.48378G	-44.46	17.67729G	-46.25	1





For EUT 2 / Radio 2 / External Ant.1\_Non-Beamforming Mode  
Result

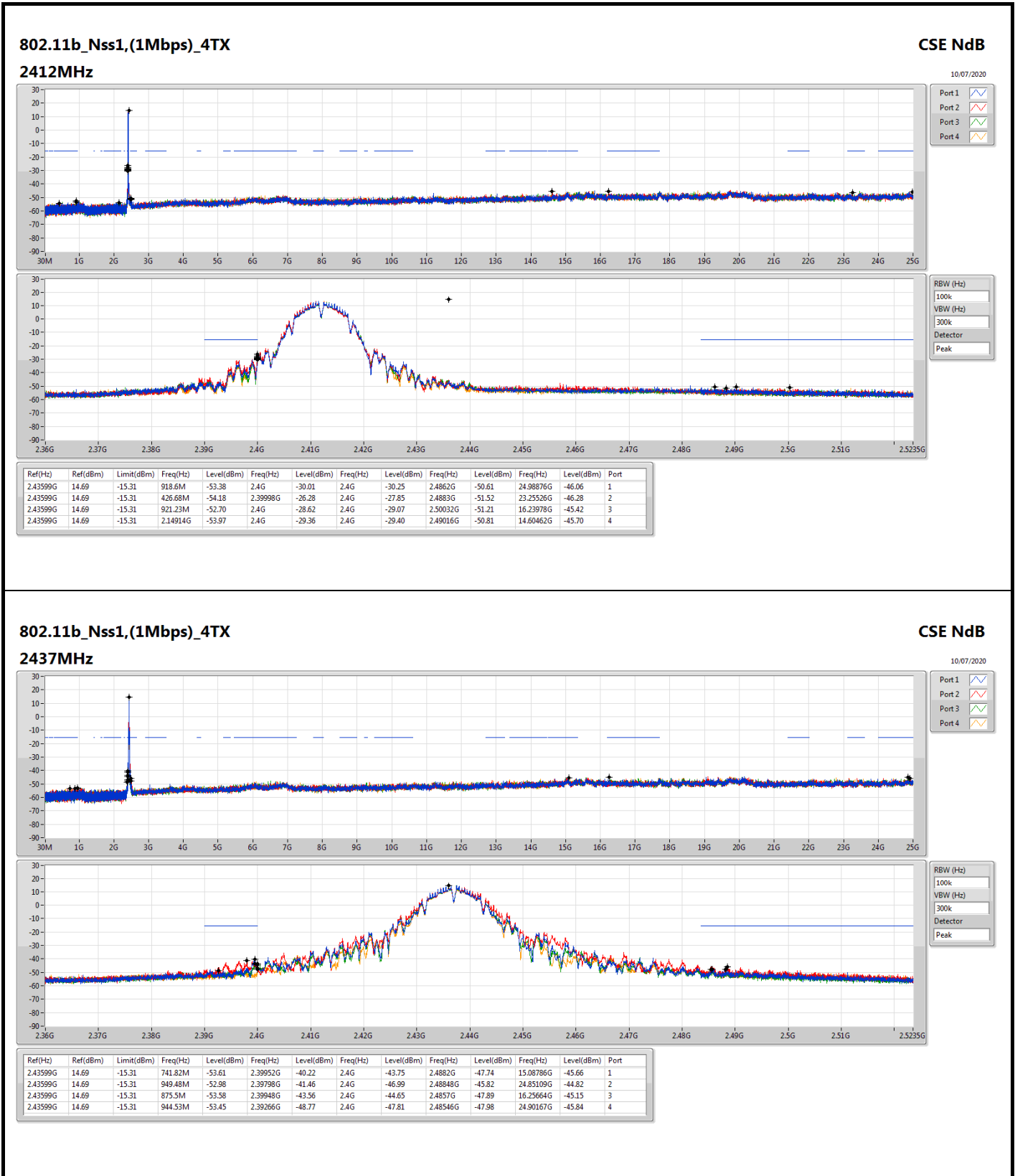
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43599G	14.69	-15.31	918.6M	-53.38	2.4G	-30.01	2.4G	-30.25	2.4862G	-50.61	24.98876G	-46.06	1
2412MHz	Pass	2.43599G	14.69	-15.31	426.68M	-54.18	2.39998G	-26.28	2.4G	-27.85	2.4883G	-51.52	23.25526G	-46.28	2
2412MHz	Pass	2.43599G	14.69	-15.31	921.23M	-52.70	2.4G	-28.62	2.4G	-29.07	2.50032G	-51.21	16.23978G	-45.42	3
2412MHz	Pass	2.43599G	14.69	-15.31	2.14914G	-53.97	2.4G	-29.36	2.4G	-29.40	2.49016G	-50.81	14.60462G	-45.70	4
2437MHz	Pass	2.43599G	14.69	-15.31	741.82M	-53.61	2.39952G	-40.22	2.4G	-43.75	2.4882G	-47.74	15.08786G	-45.66	1
2437MHz	Pass	2.43599G	14.69	-15.31	949.48M	-52.98	2.39798G	-41.46	2.4G	-46.99	2.48848G	-45.82	24.85109G	-44.82	2
2437MHz	Pass	2.43599G	14.69	-15.31	875.5M	-53.58	2.39948G	-43.56	2.4G	-44.65	2.4857G	-47.89	16.25664G	-45.15	3
2437MHz	Pass	2.43599G	14.69	-15.31	944.53M	-53.45	2.39266G	-48.77	2.4G	-47.81	2.48546G	-47.98	24.90167G	-45.84	4
2462MHz	Pass	2.43599G	14.69	-15.31	2.11943G	-53.88	2.39124G	-52.01	2.4835G	-48.60	2.48618G	-46.99	24.86795G	-45.94	1
2462MHz	Pass	2.43599G	14.69	-15.31	1.92749G	-53.40	2.39942G	-52.20	2.4835G	-50.10	2.4864G	-49.03	17.66423G	-45.53	2
2462MHz	Pass	2.43599G	14.69	-15.31	876.37M	-53.70	2.3942G	-52.28	2.4835G	-49.39	2.48692G	-47.39	15.07382G	-45.15	3
2462MHz	Pass	2.43599G	14.69	-15.31	367.85M	-53.36	2.392G	-51.62	2.4835G	-50.76	2.48636G	-48.84	23.52217G	-45.92	4
802.11g_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.44451G	9.36	-20.64	899.67M	-54.29	2.39994G	-36.55	2.4G	-37.96	2.48364G	-51.75	15.02324G	-45.40	1
2412MHz	Pass	2.44451G	9.36	-20.64	911.32M	-53.43	2.39922G	-35.07	2.4G	-40.20	2.49496G	-51.07	23.46598G	-45.07	2
2412MHz	Pass	2.44451G	9.36	-20.64	1.86371G	-52.21	2.39976G	-35.86	2.4G	-39.93	2.48706G	-51.89	15.07663G	-45.34	3
2412MHz	Pass	2.44451G	9.36	-20.64	842.3M	-53.02	2.39976G	-33.64	2.4G	-37.38	2.50096G	-52.79	15.03729G	-45.36	4
2437MHz	Pass	2.44451G	9.36	-20.64	2.01341G	-53.91	2.39984G	-34.29	2.4G	-37.23	2.4847G	-42.15	24.941G	-45.88	1
2437MHz	Pass	2.44451G	9.36	-20.64	922.97M	-53.41	2.3986G	-36.34	2.4G	-39.66	2.48626G	-41.47	24.5589G	-44.55	2
2437MHz	Pass	2.44451G	9.36	-20.64	2.30728G	-54.03	2.39826G	-37.83	2.4G	-38.22	2.48412G	-42.54	15.31544G	-45.88	3
2437MHz	Pass	2.44451G	9.36	-20.64	842.3M	-53.39	2.39854G	-33.78	2.4G	-39.87	2.48602G	-39.31	17.68109G	-44.67	4
2462MHz	Pass	2.44451G	9.36	-20.64	1.91905G	-53.81	2.3992G	-52.14	2.4835G	-49.34	2.48416G	-46.22	24.75557G	-44.65	1
2462MHz	Pass	2.44451G	9.36	-20.64	756.09M	-53.70	2.39974G	-53.00	2.4835G	-46.45	2.48446G	-45.68	15.32949G	-45.54	2
2462MHz	Pass	2.44451G	9.36	-20.64	1.7941G	-53.44	2.39694G	-52.79	2.4835G	-48.17	2.48392G	-46.34	15.09067G	-46.26	3
2462MHz	Pass	2.44451G	9.36	-20.64	1.92924G	-53.76	2.39112G	-52.46	2.4835G	-48.72	2.48388G	-45.83	15.07101G	-45.30	4
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.4395G	8.91	-21.09	871.42M	-54.13	2.39986G	-36.37	2.4G	-36.73	2.48478G	-52.86	24.87919G	-45.79	1
2412MHz	Pass	2.4395G	8.91	-21.09	829.48M	-53.03	2.39998G	-35.97	2.4G	-43.08	2.48432G	-52.12	24.79771G	-46.20	2
2412MHz	Pass	2.4395G	8.91	-21.09	2.11069G	-54.08	2.3999G	-35.59	2.4G	-35.46	2.48396G	-52.02	15.27891G	-44.78	3
2412MHz	Pass	2.4395G	8.91	-21.09	1.90536G	-54.23	2.3994G	-36.14	2.4G	-44.48	2.49552G	-52.47	17.69795G	-44.90	4
2437MHz	Pass	2.4395G	8.91	-21.09	871.71M	-53.25	2.39894G	-36.06	2.4G	-35.86	2.4846G	-40.50	23.5306G	-45.71	1
2437MHz	Pass	2.4395G	8.91	-21.09	945.98M	-53.08	2.3989G	-37.07	2.4G	-37.93	2.4869G	-39.74	24.96348G	-45.17	2
2437MHz	Pass	2.4395G	8.91	-21.09	940.16M	-53.81	2.39888G	-39.17	2.4G	-37.74	2.48372G	-42.33	15.25644G	-44.79	3
2437MHz	Pass	2.4395G	8.91	-21.09	2.09846G	-53.89	2.4G	-35.65	2.4G	-34.95	2.48912G	-40.18	23.41541G	-45.24	4
2462MHz	Pass	2.4395G	8.91	-21.09	520.76M	-53.27	2.3981G	-53.45	2.4835G	-49.41	2.48412G	-47.74	15.01481G	-45.46	1
2462MHz	Pass	2.4395G	8.91	-21.09	953.26M	-54.06	2.3996G	-53.47	2.4835G	-49.04	2.4843G	-48.14	14.95581G	-45.31	2
2462MHz	Pass	2.4395G	8.91	-21.09	1.62692G	-53.80	2.3946G	-52.30	2.4835G	-51.60	2.48406G	-47.71	24.86514G	-46.33	3
2462MHz	Pass	2.4395G	8.91	-21.09	1.77721G	-54.17	2.39918G	-52.94	2.4835G	-52.52	2.4842G	-48.21	17.68952G	-45.09	4
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.45448G	2.19	-27.81	881.59M	-54.04	2.39836G	-43.45	2.4G	-44.14	2.4881G	-51.42	15.09709G	-45.24	1
2422MHz	Pass	2.45448G	2.19	-27.81	856.69M	-54.10	2.39952G	-42.02	2.4G	-46.36	2.50694G	-51.16	17.69411G	-45.48	2
2422MHz	Pass	2.45448G	2.19	-27.81	776.54M	-52.58	2.39788G	-44.22	2.4G	-46.33	2.4845G	-52.49	16.60314G	-44.79	3
2422MHz	Pass	2.45448G	2.19	-27.81	1.99425G	-53.98	2.39708G	-39.19	2.4G	-45.64	2.4849G	-51.62	15.06063G	-45.58	4
2437MHz	Pass	2.45448G	2.19	-27.81	2.12048G	-53.72	2.3992G	-38.55	2.4G	-42.75	2.48378G	-44.46	17.67729G	-46.25	1
2437MHz	Pass	2.45448G	2.19	-27.81	1.87145G	-54.04	2.39728G	-41.47	2.4G	-44.31	2.48486G	-43.28	15.24573G	-44.85	2
2437MHz	Pass	2.45448G	2.19	-27.81	1.79616G	-53.13	2.39912G	-40.92	2.4G	-44.22	2.48414G	-46.06	24.139G	-45.64	3



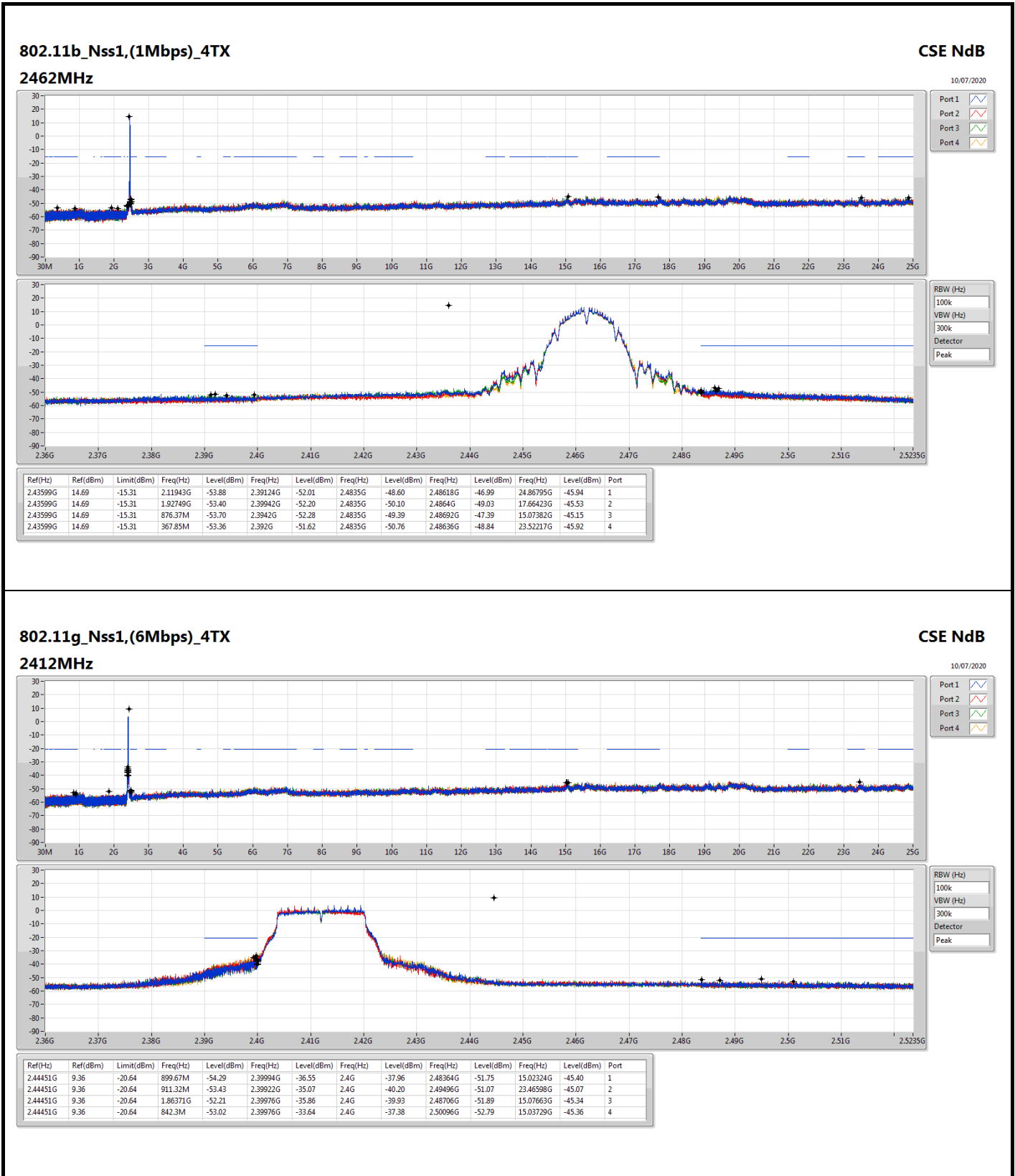
For EUT 2 / Radio 2 / External Ant.1\_Non-Beamforming Mode

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2437MHz	Pass	2.45448G	2.19	-27.81	855.26M	-53.93	2.39644G	-38.60	2.4G	-39.94	2.48566G	-43.29	17.09113G	-45.44	4
2452MHz	Pass	2.45448G	2.19	-27.81	2.17773G	-53.36	2.39616G	-50.85	2.4835G	-48.74	2.48682G	-47.30	17.68851G	-45.85	1
2452MHz	Pass	2.45448G	2.19	-27.81	1.80418G	-53.54	2.39796G	-52.07	2.4835G	-50.65	2.48446G	-46.39	17.52865G	-45.78	2
2452MHz	Pass	2.45448G	2.19	-27.81	887.89M	-53.29	2.39964G	-51.84	2.4835G	-48.64	2.48386G	-47.68	15.03819G	-45.58	3
2452MHz	Pass	2.45448G	2.19	-27.81	930.83M	-53.10	2.39724G	-52.09	2.4835G	-49.66	2.48498G	-43.43	15.04941G	-45.79	4

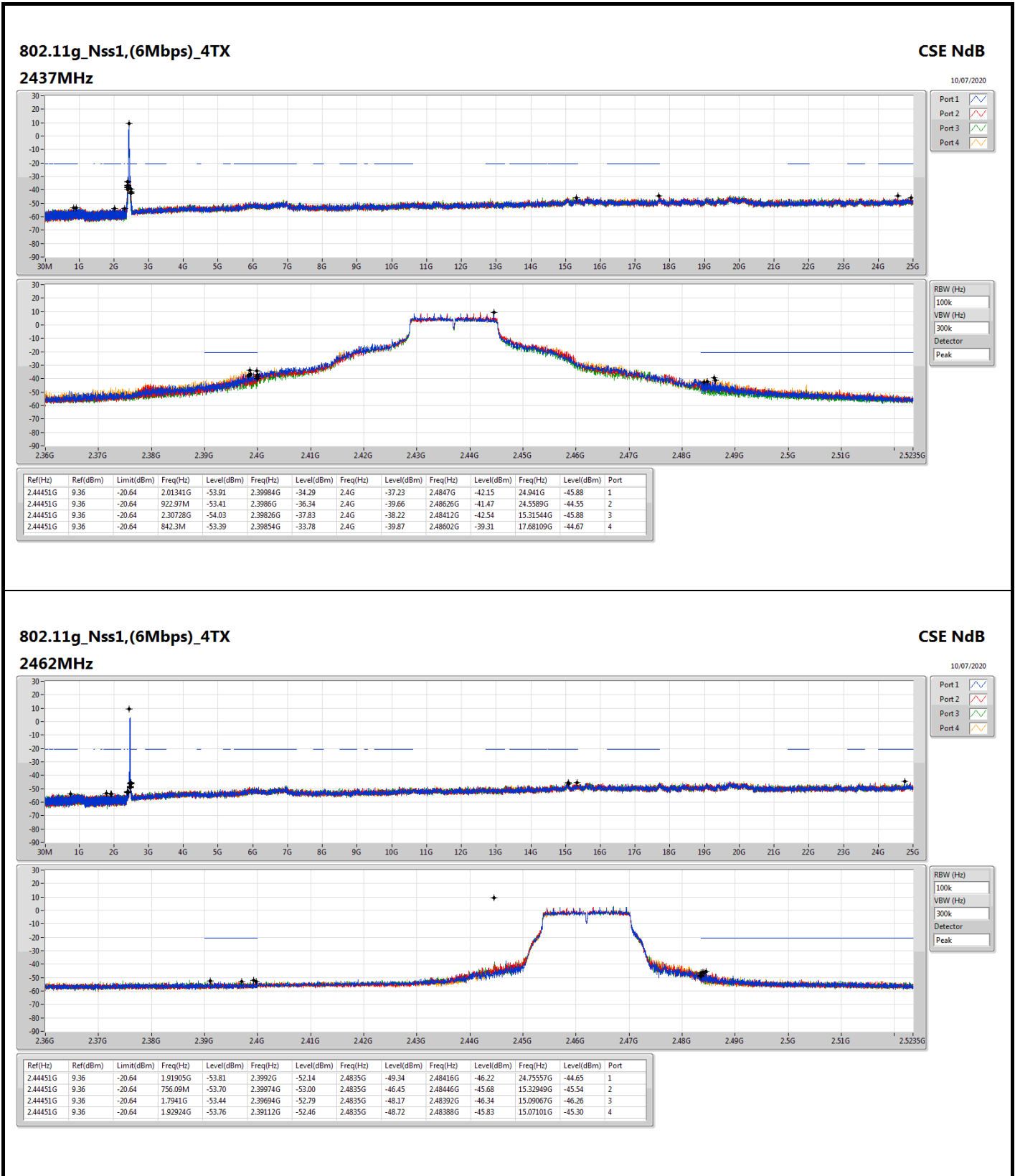
For EUT 2 / Radio 2 / External Ant.1\_Non-Beamforming Mode



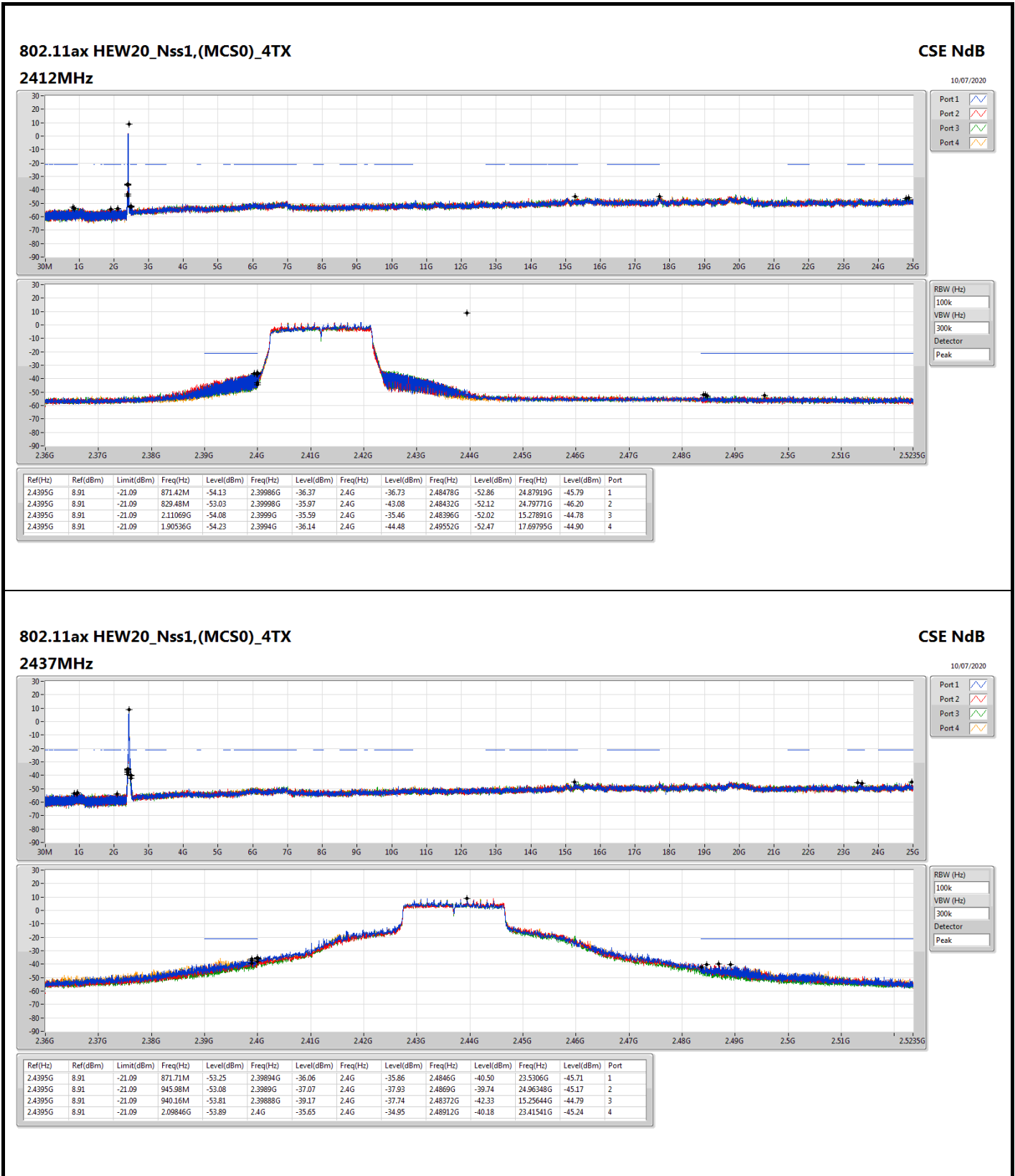
For EUT 2 / Radio 2 / External Ant.1\_Non-Beamforming Mode



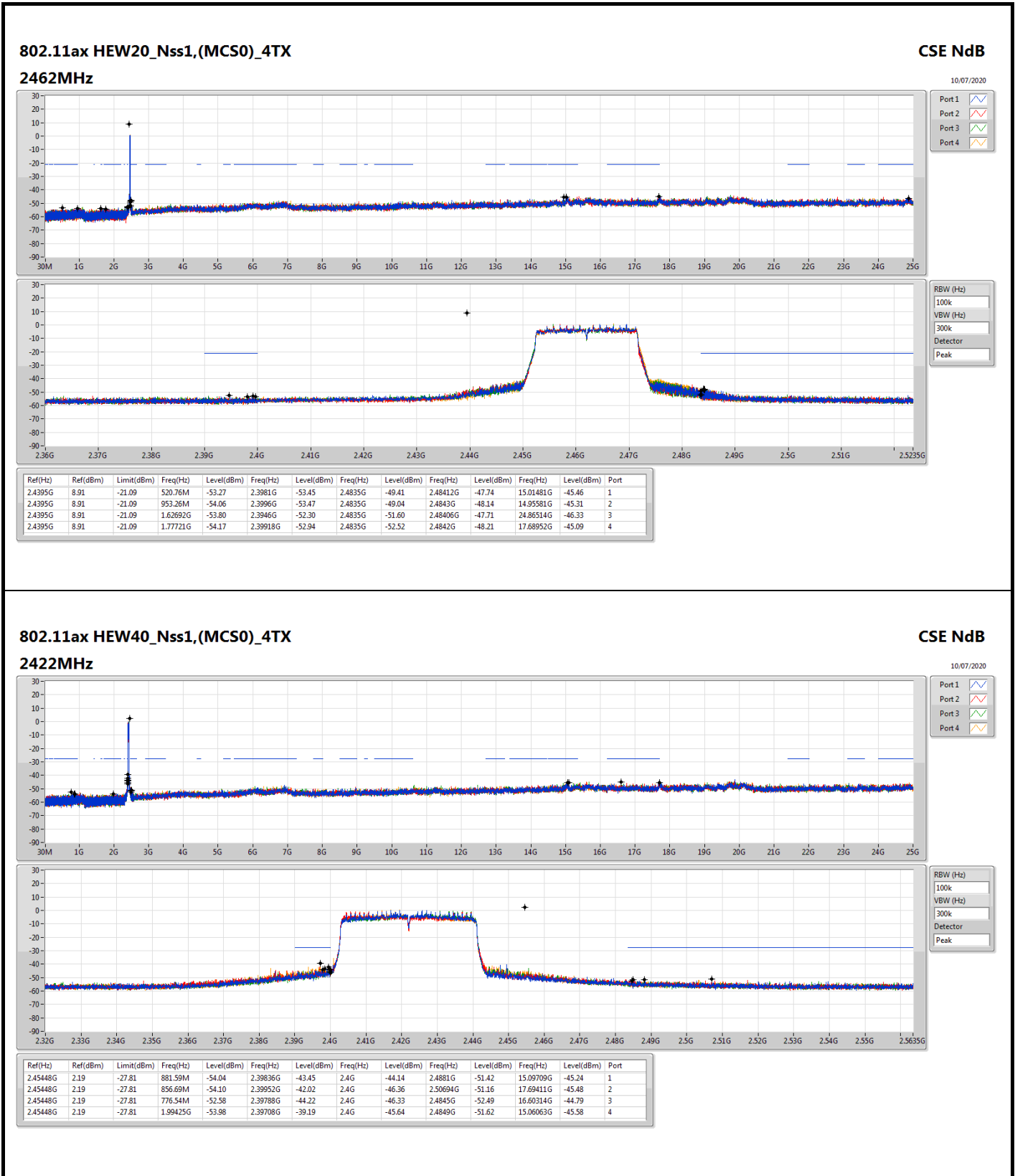
For EUT 2 / Radio 2 / External Ant.1\_Non-Beamforming Mode



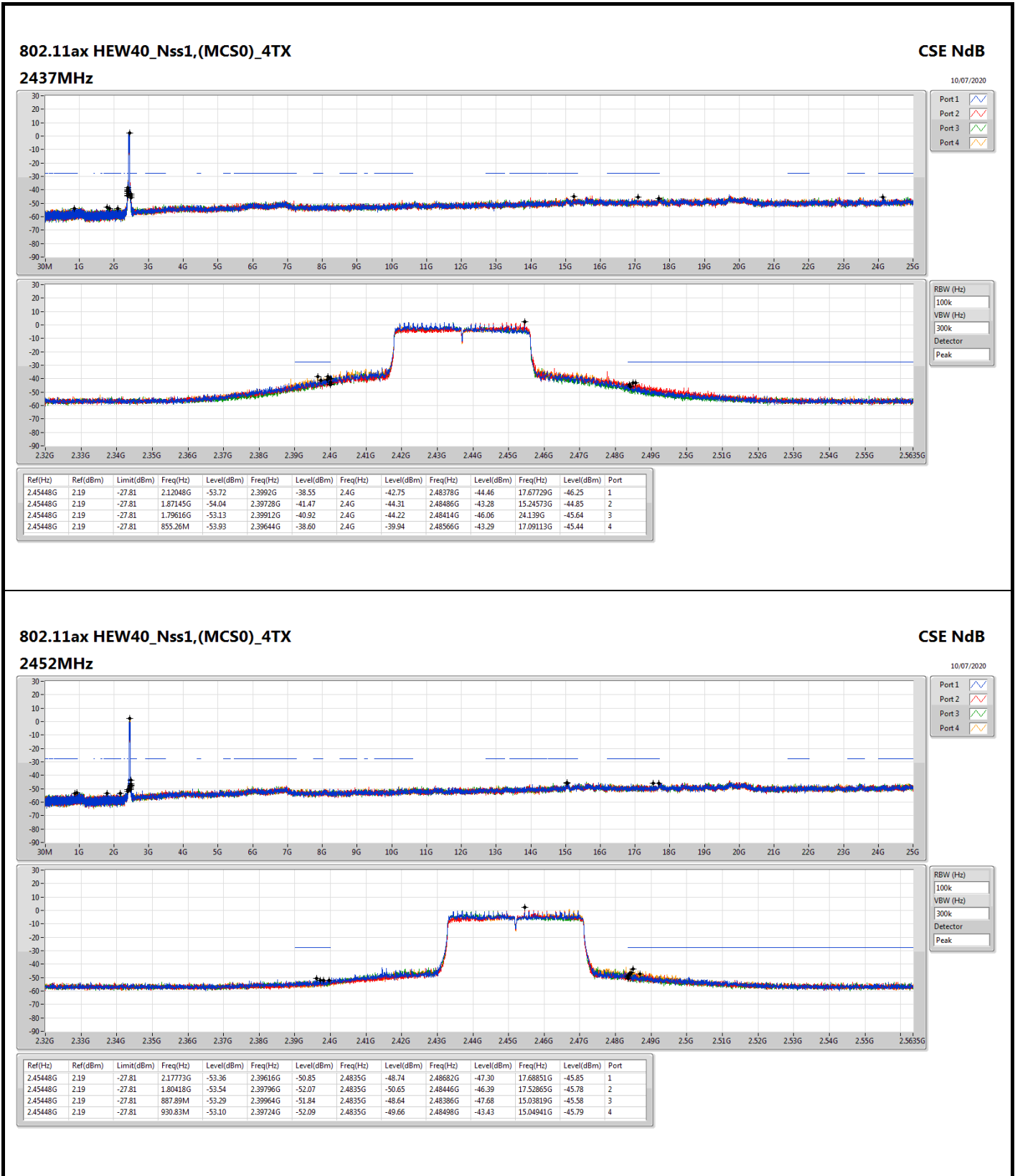
For EUT 2 / Radio 2 / External Ant.1\_Non-Beamforming Mode



For EUT 2 / Radio 2 / External Ant.1\_Non-Beamforming Mode



For EUT 2 / Radio 2 / External Ant.1\_Non-Beamforming Mode







For EUT 2 / Radio 3 / External Ant.1\_Non-Beamforming Mode  
Summary

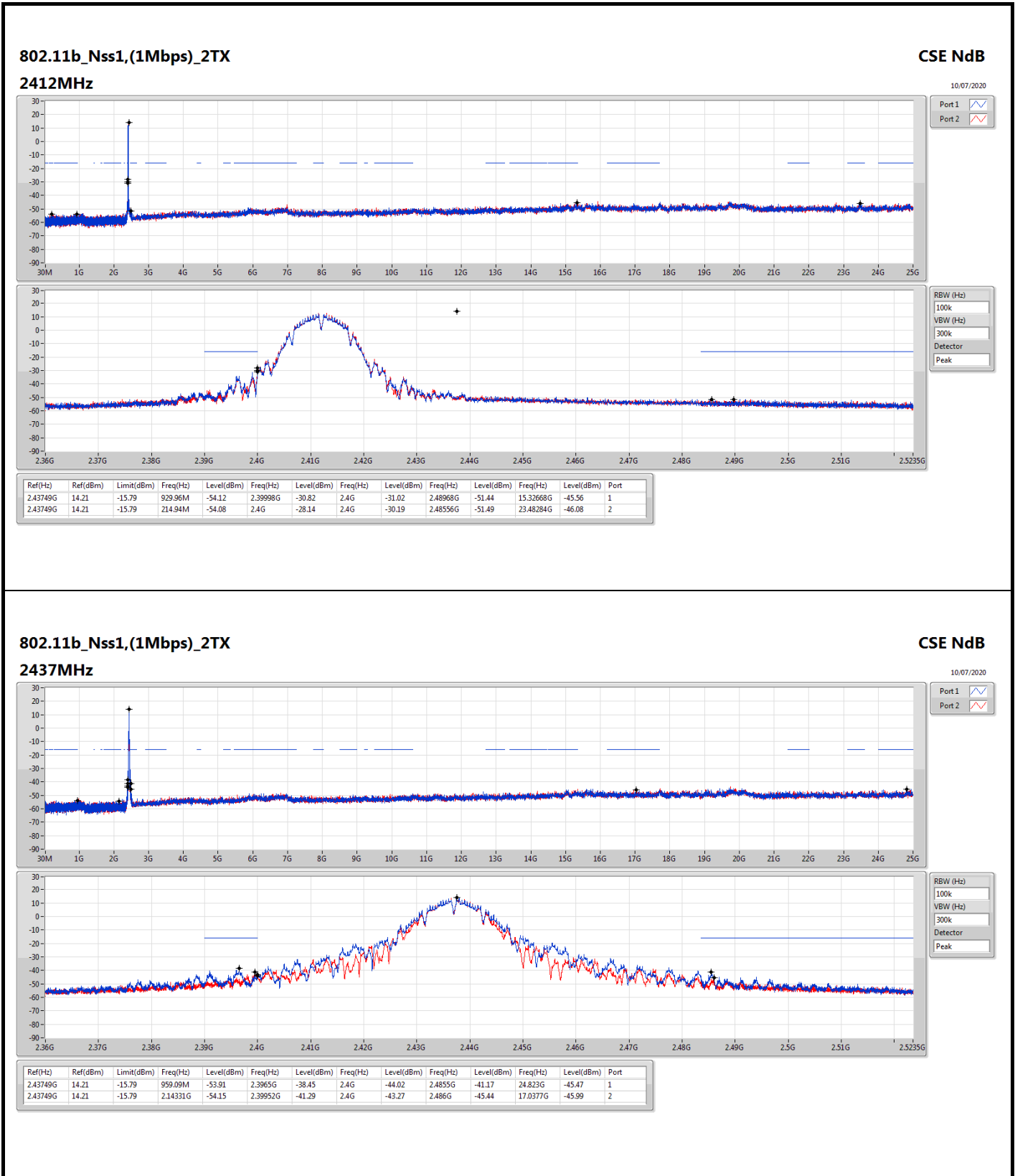
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	Pass	2.43749G	14.21	-15.79	214.94M	-54.08	2.4G	-28.14	2.4G	-30.19	2.48556G	-51.49	23.48284G	-46.08	2
802.11g_Nss1,(6Mbps)_2TX	Pass	2.44196G	9.41	-20.59	1.88352G	-53.63	2.39982G	-31.96	2.4G	-37.74	2.4842G	-52.24	15.23677G	-45.22	2
802.11ax HEW20_Nss1,(MCS0)_2TX	Pass	2.442G	9.44	-20.56	919.77M	-53.82	2.39994G	-29.62	2.4G	-31.33	2.49562G	-52.74	15.05415G	-45.48	1
802.11ax HEW40_Nss1,(MCS0)_2TX	Pass	2.43198G	2.08	-27.92	2.07211G	-52.25	2.39956G	-34.17	2.4G	-36.10	2.48422G	-42.36	17.69131G	-45.92	2



For EUT 2 / Radio 3 / External Ant.1\_Non-Beamforming Mode  
Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43749G	14.21	-15.79	929.96M	-54.12	2.39998G	-30.82	2.4G	-31.02	2.48968G	-51.44	15.32668G	-45.56	1
2412MHz	Pass	2.43749G	14.21	-15.79	214.94M	-54.08	2.4G	-28.14	2.4G	-30.19	2.48556G	-51.49	23.48284G	-46.08	2
2437MHz	Pass	2.43749G	14.21	-15.79	959.09M	-53.91	2.3965G	-38.45	2.4G	-44.02	2.4855G	-41.17	24.823G	-45.47	1
2437MHz	Pass	2.43749G	14.21	-15.79	2.14331G	-54.15	2.39952G	-41.29	2.4G	-43.27	2.486G	-45.44	17.0377G	-45.99	2
2462MHz	Pass	2.43749G	14.21	-15.79	883.65M	-53.96	2.39372G	-51.31	2.4835G	-46.98	2.48598G	-46.09	17.69795G	-45.69	1
2462MHz	Pass	2.43749G	14.21	-15.79	2.14215G	-53.33	2.39178G	-51.78	2.4835G	-46.66	2.48598G	-45.24	23.44912G	-45.52	2
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.44196G	9.41	-20.59	2.02273G	-53.15	2.39992G	-33.42	2.4G	-35.42	2.48912G	-52.45	24.88762G	-46.47	1
2412MHz	Pass	2.44196G	9.41	-20.59	1.88352G	-53.63	2.39982G	-31.96	2.4G	-37.74	2.4842G	-52.24	15.23677G	-45.22	2
2437MHz	Pass	2.44196G	9.41	-20.59	2.09438G	-53.79	2.39946G	-34.72	2.4835G	-39.27	2.485G	-39.10	15.06539G	-45.06	1
2437MHz	Pass	2.44196G	9.41	-20.59	872M	-53.79	2.39854G	-34.35	2.4G	-37.07	2.48604G	-38.17	23.47722G	-44.79	2
2462MHz	Pass	2.44196G	9.41	-20.59	948.89M	-53.84	2.39974G	-51.87	2.4835G	-40.30	2.48412G	-40.18	17.69795G	-44.76	1
2462MHz	Pass	2.44196G	9.41	-20.59	2.1803G	-54.24	2.39892G	-52.46	2.4835G	-40.78	2.48354G	-39.92	15.01201G	-45.63	2
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.442G	9.44	-20.56	919.77M	-53.82	2.39994G	-29.62	2.4G	-31.33	2.49562G	-52.74	15.05415G	-45.48	1
2412MHz	Pass	2.442G	9.44	-20.56	743.56M	-53.87	2.39968G	-30.02	2.4G	-31.48	2.4963G	-52.39	15.27329G	-45.20	2
2437MHz	Pass	2.442G	9.44	-20.56	909.87M	-53.76	2.39974G	-34.83	2.4G	-35.96	2.48382G	-35.68	15.00639G	-43.45	1
2437MHz	Pass	2.442G	9.44	-20.56	899.96M	-54.54	2.39798G	-35.52	2.4G	-35.66	2.487G	-38.58	15.04291G	-45.36	2
2462MHz	Pass	2.442G	9.44	-20.56	940.45M	-53.00	2.39734G	-53.64	2.4835G	-50.34	2.4839G	-39.22	24.89605G	-44.94	1
2462MHz	Pass	2.442G	9.44	-20.56	734.83M	-52.84	2.39566G	-53.20	2.4835G	-39.91	2.4839G	-39.16	24.9129G	-45.72	2
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.43198G	2.08	-27.92	1.97994G	-52.89	2.39988G	-36.91	2.4G	-39.31	2.48586G	-51.16	24.94391G	-45.43	1
2422MHz	Pass	2.43198G	2.08	-27.92	2.15312G	-52.97	2.39712G	-37.10	2.4G	-40.31	2.49006G	-50.47	24.82612G	-45.64	2
2437MHz	Pass	2.43198G	2.08	-27.92	820.05M	-53.80	2.39956G	-35.13	2.4G	-40.00	2.48658G	-41.15	15.06344G	-44.89	1
2437MHz	Pass	2.43198G	2.08	-27.92	2.07211G	-52.25	2.39956G	-34.17	2.4G	-36.10	2.48422G	-42.36	17.69131G	-45.92	2
2452MHz	Pass	2.43198G	2.08	-27.92	951.73M	-53.63	2.399G	-49.21	2.4835G	-43.38	2.48418G	-40.81	17.69692G	-44.91	1
2452MHz	Pass	2.43198G	2.08	-27.92	944.28M	-53.70	2.39688G	-50.38	2.4835G	-45.30	2.48446G	-38.49	21.61209G	-45.46	2

For EUT 2 / Radio 3 / External Ant.1\_Non-Beamforming Mode



### 802.11b\_Nss1,(1Mbps)\_2TX

#### 2437MHz

CSE NdB

10.07/2020

Port 1

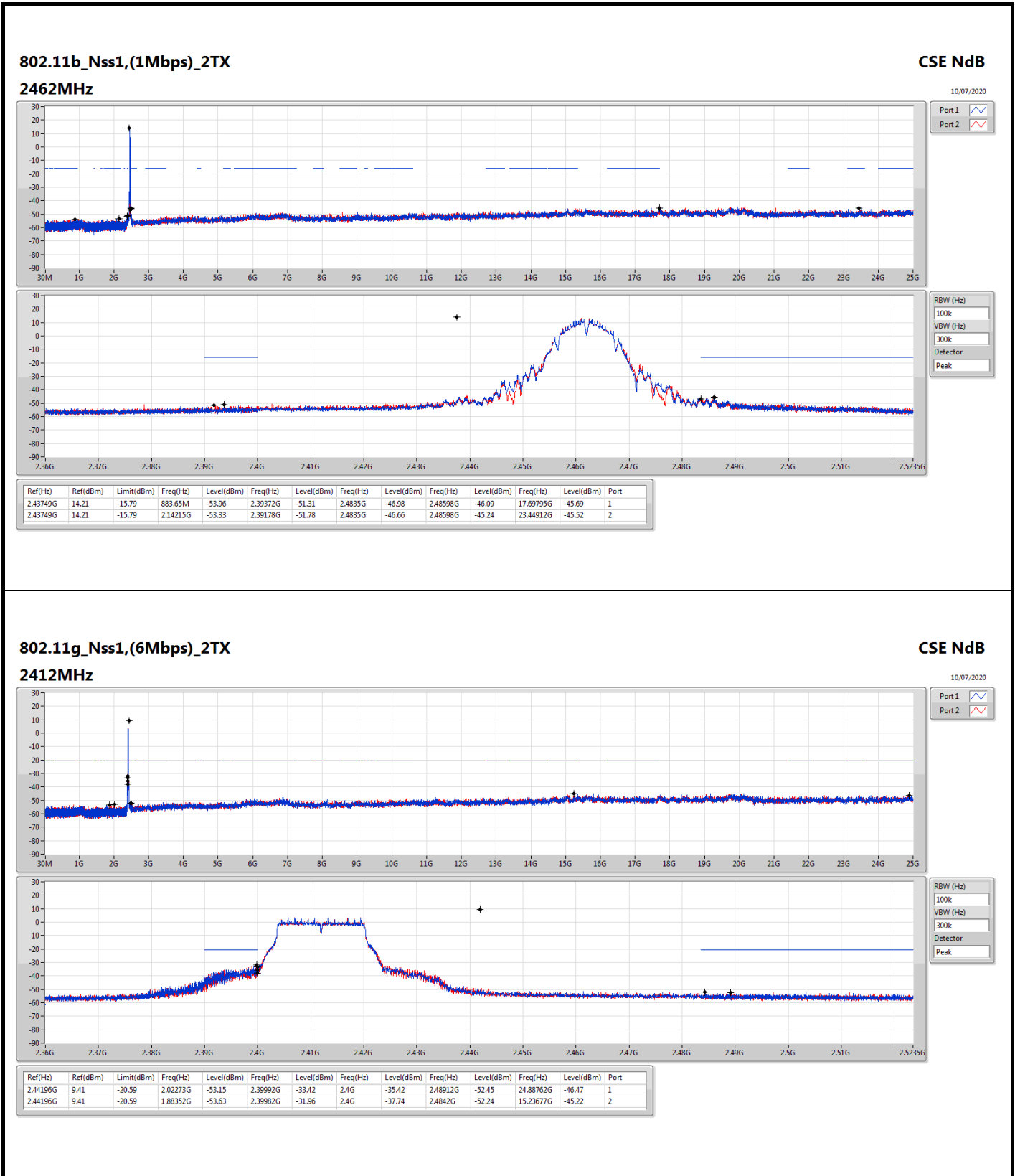
Port 2

RBW (Hz) 100k

VBW (Hz) 300k

Detector Peak

For EUT 2 / Radio 3 / External Ant.1\_Non-Beamforming Mode



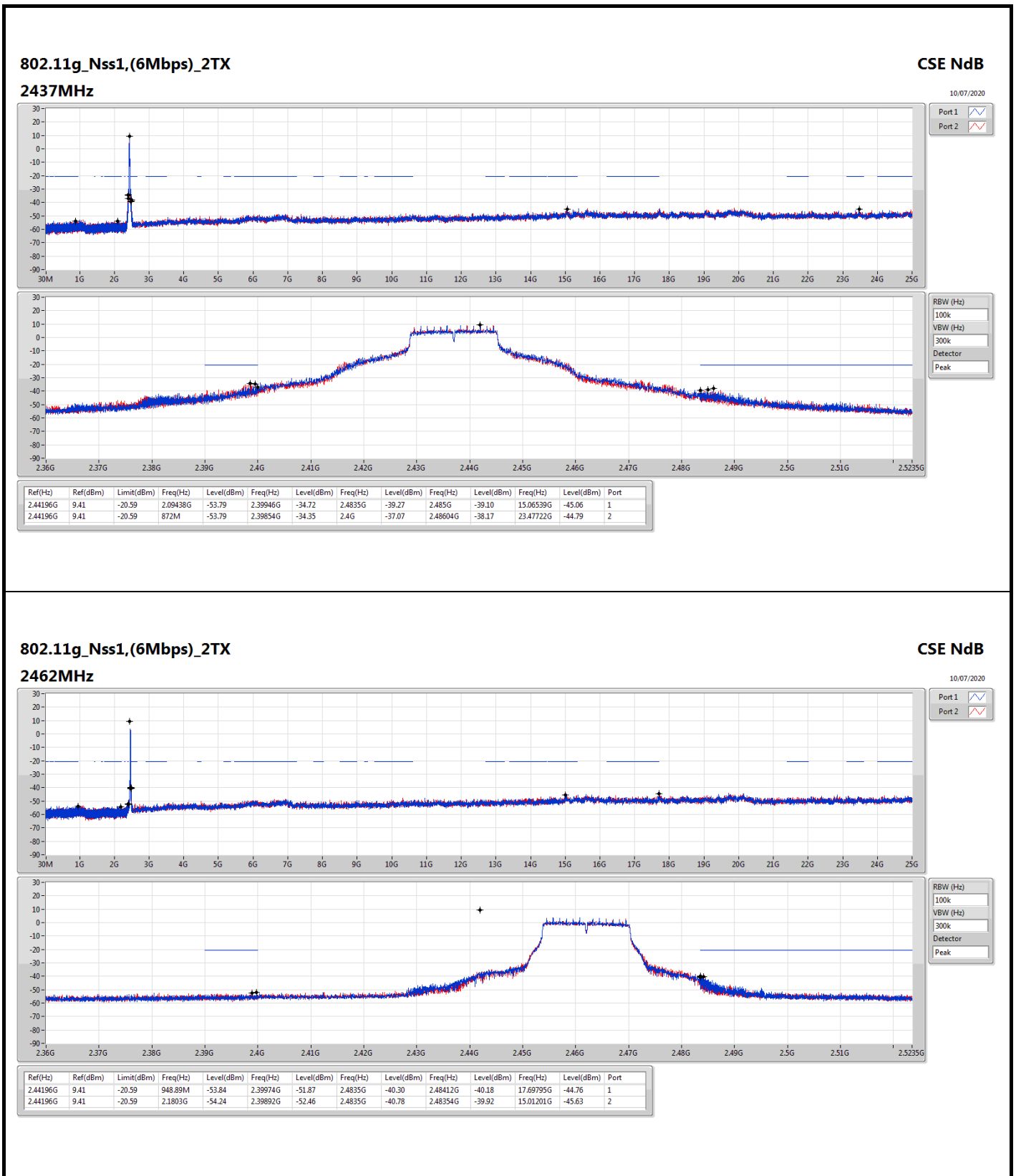
**802.11g\_Nss1,(6Mbps)\_2TX**

**2412MHz**

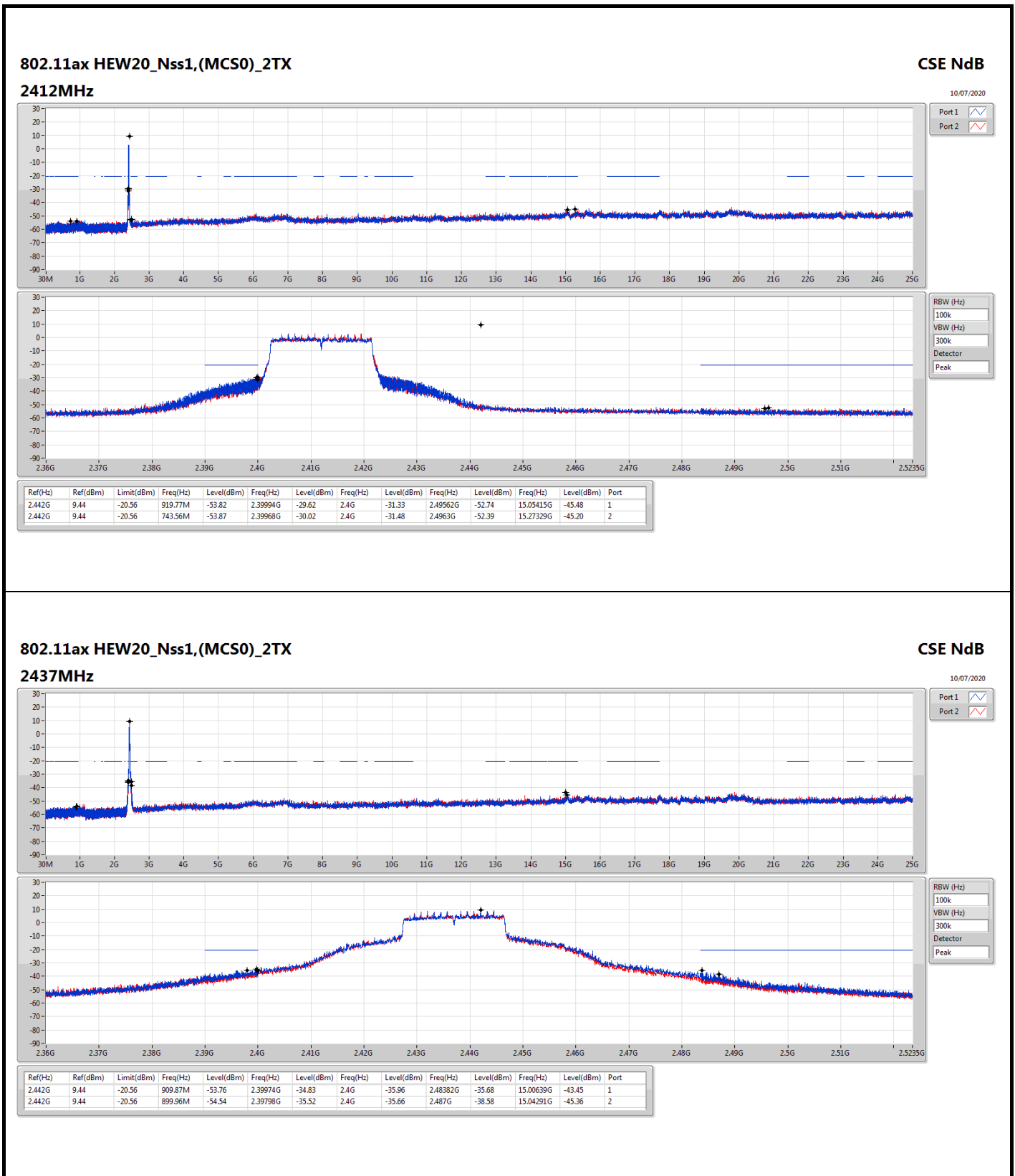
**CSE NdB**

10/07/2020

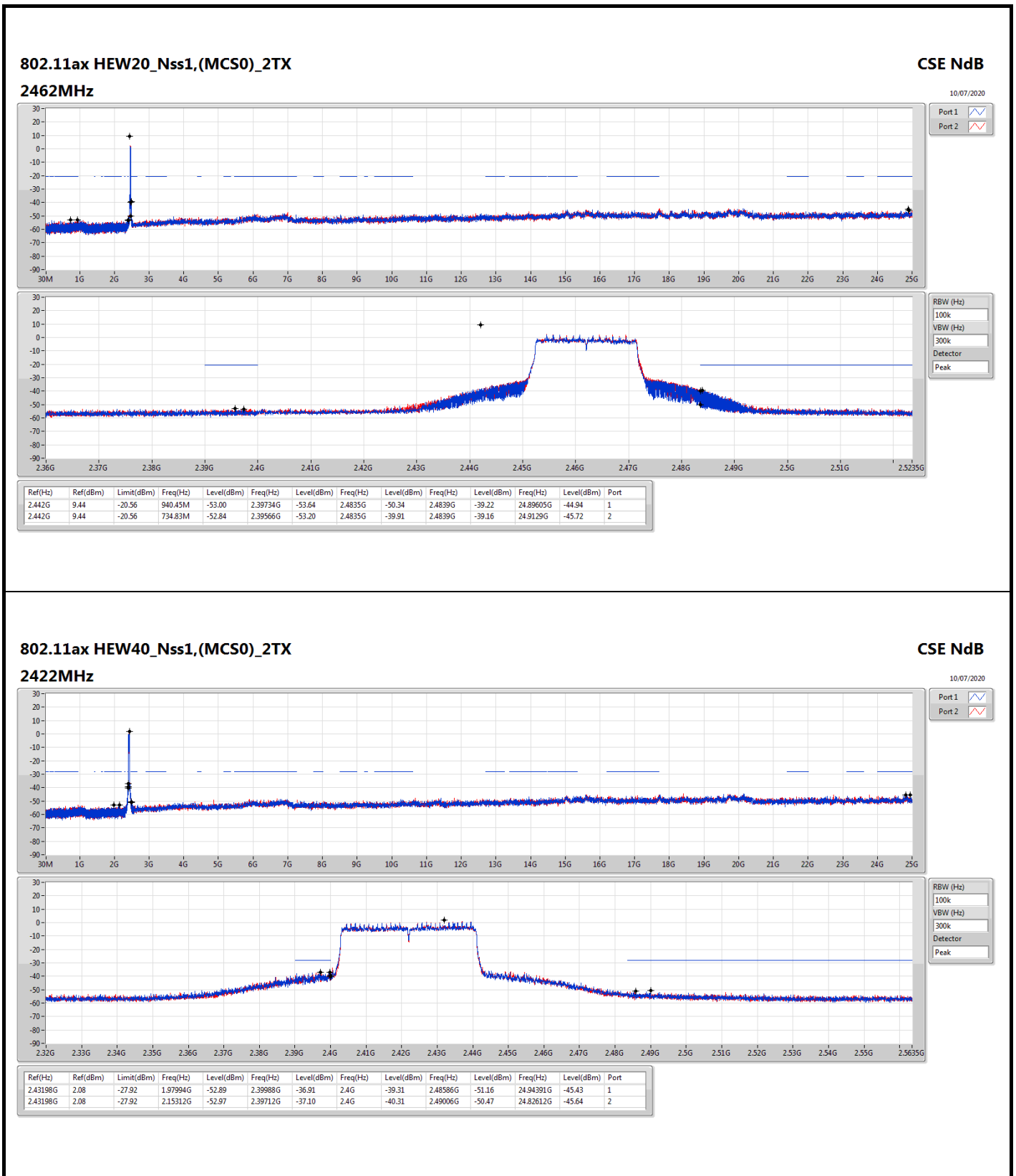
For EUT 2 / Radio 3 / External Ant.1\_Non-Beamforming Mode



For EUT 2 / Radio 3 / External Ant.1\_Non-Beamforming Mode



For EUT 2 / Radio 3 / External Ant.1\_Non-Beamforming Mode



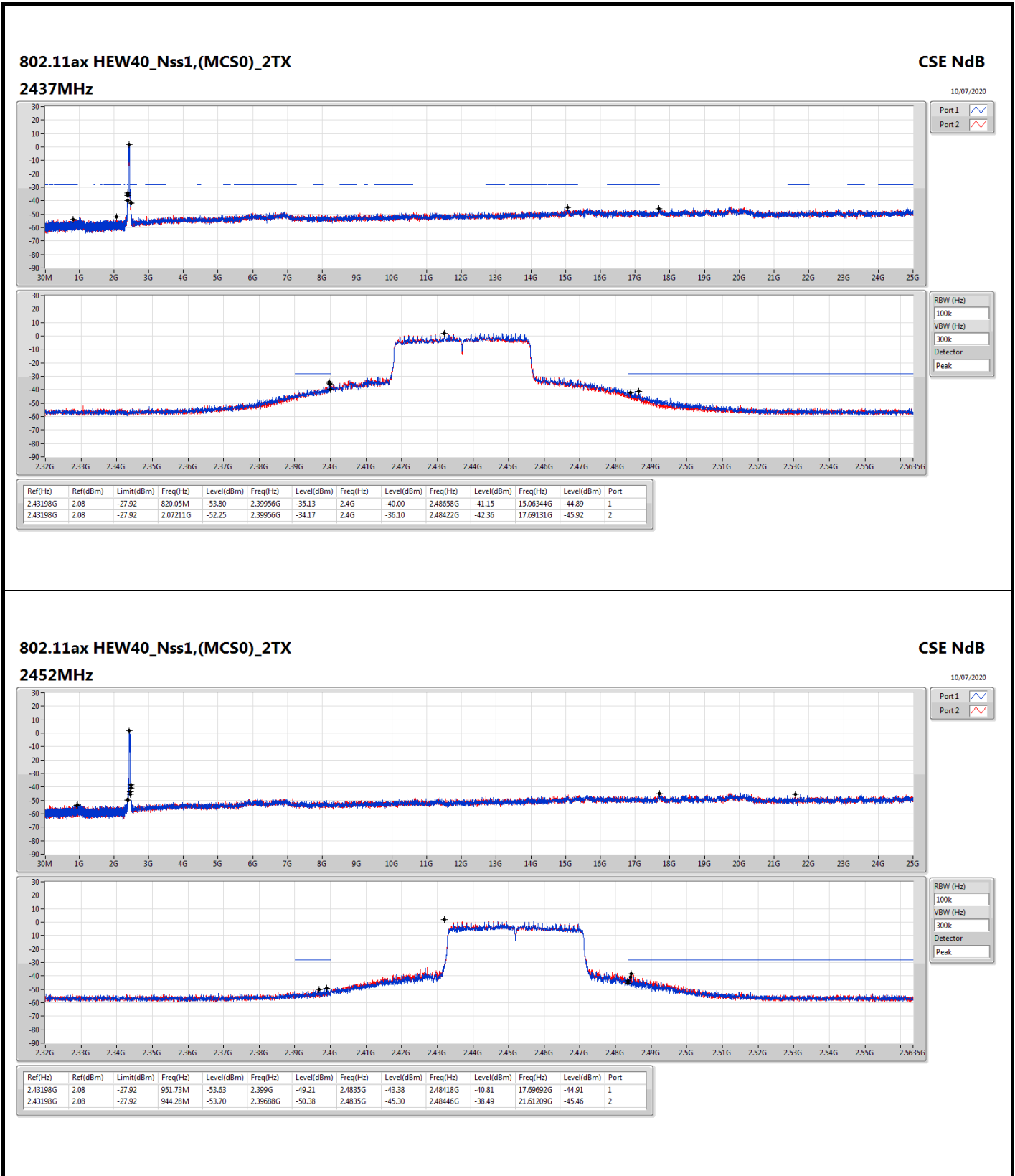
**802.11ax HEW40\_Nss1,(MCS0)\_2TX**

**2422MHz**

**CSE NdB**

10/07/2020

For EUT 2 / Radio 3 / External Ant.1\_Non-Beamforming Mode







For EUT 2 / Radio 2 / External Ant.2\_Non-Beamforming Mode  
Summary

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_4TX	Pass	2.43749G	14.05	-15.95	2.1538G	-53.85	2.39998G	-31.77	2.4G	-31.01	2.49272G	-50.86	15.0682G	-45.24	2
802.11g_Nss1,(6Mbps)_4TX	Pass	2.44446G	6.97	-23.03	788.71M	-52.64	2.39888G	-40.41	2.4G	-43.03	2.49922G	-52.91	24.19927G	-45.57	4
802.11ax HEW20_Nss1,(MCS0)_4TX	Pass	2.44451G	5.85	-24.15	730.75M	-52.83	2.4G	-41.28	2.4G	-42.40	2.4941G	-52.23	15.0401G	-45.69	2
802.11ax HEW40_Nss1,(MCS0)_4TX	Pass	2.43198G	0.74	-29.26	958.88M	-53.35	2.39952G	-42.68	2.4G	-47.75	2.48658G	-48.39	15.04941G	-45.37	1



For EUT 2 / Radio 2 / External Ant.2\_Non-Beamforming Mode  
Result

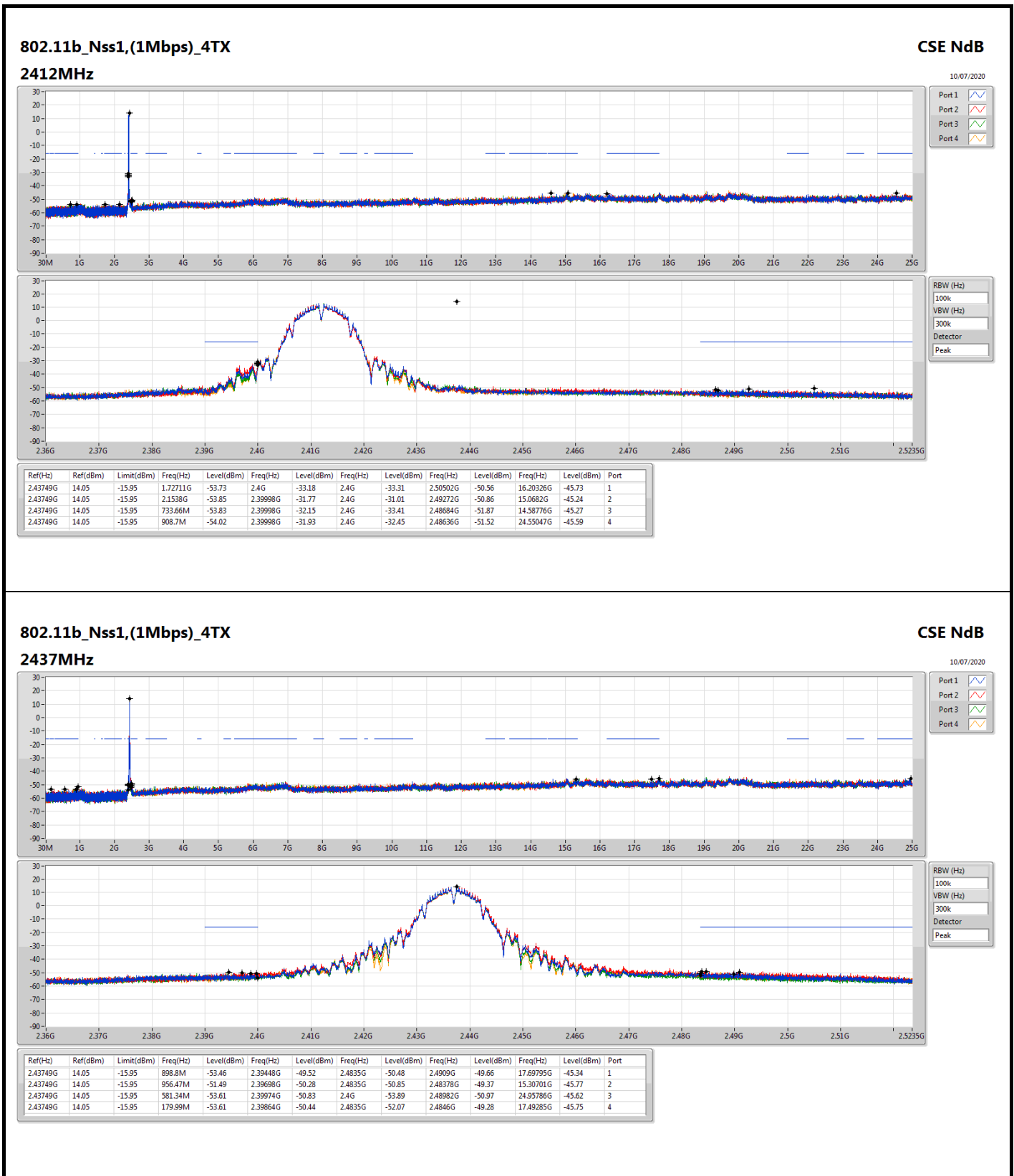
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43749G	14.05	-15.95	1.72711G	-53.73	2.4G	-33.18	2.4G	-33.31	2.50502G	-50.56	16.20326G	-45.73	1
2412MHz	Pass	2.43749G	14.05	-15.95	2.1538G	-53.85	2.39998G	-31.77	2.4G	-31.01	2.49272G	-50.86	15.0682G	-45.24	2
2412MHz	Pass	2.43749G	14.05	-15.95	733.66M	-53.83	2.39998G	-32.15	2.4G	-33.41	2.48684G	-51.87	14.58776G	-45.27	3
2412MHz	Pass	2.43749G	14.05	-15.95	908.7M	-54.02	2.39998G	-31.93	2.4G	-32.45	2.48636G	-51.52	24.55047G	-45.59	4
2437MHz	Pass	2.43749G	14.05	-15.95	898.8M	-53.46	2.39448G	-49.52	2.4835G	-50.48	2.4909G	-49.66	17.69795G	-45.34	1
2437MHz	Pass	2.43749G	14.05	-15.95	956.47M	-51.49	2.39698G	-50.28	2.4835G	-50.85	2.48378G	-49.37	15.30701G	-45.77	2
2437MHz	Pass	2.43749G	14.05	-15.95	581.34M	-53.61	2.39974G	-50.83	2.4G	-53.89	2.48982G	-50.97	24.95786G	-45.62	3
2437MHz	Pass	2.43749G	14.05	-15.95	179.99M	-53.61	2.39864G	-50.44	2.4835G	-52.07	2.4846G	-49.28	17.49285G	-45.75	4
2462MHz	Pass	2.43749G	14.05	-15.95	869.09M	-53.83	2.3978G	-51.58	2.4835G	-50.67	2.48648G	-47.77	17.67266G	-45.33	1
2462MHz	Pass	2.43749G	14.05	-15.95	877.25M	-53.48	2.39878G	-53.17	2.4835G	-50.32	2.48582G	-50.11	17.69514G	-45.60	2
2462MHz	Pass	2.43749G	14.05	-15.95	2.15467G	-53.71	2.39764G	-51.81	2.4835G	-50.80	2.48648G	-49.30	24.99438G	-45.54	3
2462MHz	Pass	2.43749G	14.05	-15.95	857.44M	-54.08	2.39946G	-52.51	2.4835G	-53.21	2.48696G	-48.41	16.2735G	-44.98	4
802.11g_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.44446G	6.97	-23.03	218.73M	-53.75	2.39926G	-43.27	2.4G	-43.59	2.49576G	-52.89	24.81176G	-45.58	1
2412MHz	Pass	2.44446G	6.97	-23.03	953.26M	-53.18	2.39924G	-42.02	2.4G	-40.75	2.50158G	-52.60	23.43507G	-45.63	2
2412MHz	Pass	2.44446G	6.97	-23.03	786.38M	-54.28	2.39888G	-40.61	2.4G	-43.10	2.49168G	-52.20	16.23978G	-45.26	3
2412MHz	Pass	2.44446G	6.97	-23.03	788.71M	-52.64	2.39888G	-40.41	2.4G	-43.03	2.49922G	-52.91	24.19927G	-45.57	4
2437MHz	Pass	2.44446G	6.97	-23.03	1.98079G	-53.00	2.3947G	-45.24	2.4G	-46.76	2.48386G	-49.75	24.82019G	-45.29	1
2437MHz	Pass	2.44446G	6.97	-23.03	2.09758G	-53.24	2.39494G	-45.31	2.4G	-48.23	2.48504G	-48.28	24.16275G	-45.64	2
2437MHz	Pass	2.44446G	6.97	-23.03	919.77M	-53.62	2.39734G	-46.54	2.4G	-49.35	2.48694G	-50.04	17.68952G	-44.55	3
2437MHz	Pass	2.44446G	6.97	-23.03	2.06176G	-53.64	2.39978G	-44.00	2.4G	-47.62	2.48364G	-47.47	17.69233G	-46.26	4
2462MHz	Pass	2.44446G	6.97	-23.03	1.64848G	-54.22	2.3996G	-52.76	2.4835G	-48.25	2.48368G	-47.62	16.36621G	-45.88	1
2462MHz	Pass	2.44446G	6.97	-23.03	2.04807G	-53.56	2.39652G	-53.60	2.4835G	-48.40	2.48386G	-46.27	15.05415G	-45.84	2
2462MHz	Pass	2.44446G	6.97	-23.03	751.14M	-52.71	2.39744G	-52.72	2.4835G	-49.13	2.48352G	-46.54	15.27891G	-44.78	3
2462MHz	Pass	2.44446G	6.97	-23.03	1.79527G	-53.82	2.39368G	-53.81	2.4835G	-47.84	2.4839G	-46.90	15.25363G	-46.00	4
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.44451G	5.85	-24.15	761.04M	-53.82	2.4G	-45.46	2.4G	-46.77	2.50506G	-52.33	24.86233G	-45.50	1
2412MHz	Pass	2.44451G	5.85	-24.15	730.75M	-52.83	2.4G	-41.28	2.4G	-42.40	2.4941G	-52.23	15.0401G	-45.69	2
2412MHz	Pass	2.44451G	5.85	-24.15	2.00963G	-53.33	2.39998G	-46.10	2.4G	-45.13	2.48412G	-52.10	15.01762G	-45.84	3
2412MHz	Pass	2.44451G	5.85	-24.15	949.19M	-53.82	2.39988G	-45.24	2.4G	-48.10	2.48406G	-52.69	15.06539G	-45.84	4
2437MHz	Pass	2.44451G	5.85	-24.15	645.7M	-53.85	2.39906G	-45.88	2.4G	-49.14	2.48516G	-50.94	23.42665G	-45.79	1
2437MHz	Pass	2.44451G	5.85	-24.15	604.35M	-53.57	2.39976G	-47.58	2.4G	-48.00	2.4894G	-51.25	15.02043G	-46.02	2
2437MHz	Pass	2.44451G	5.85	-24.15	759.87M	-54.00	2.39942G	-49.07	2.4G	-51.84	2.49022G	-51.90	15.08786G	-45.14	3
2437MHz	Pass	2.44451G	5.85	-24.15	1.7743G	-53.97	2.396G	-45.81	2.4G	-52.12	2.48356G	-49.97	17.61928G	-45.85	4
2462MHz	Pass	2.44451G	5.85	-24.15	950.35M	-54.34	2.39904G	-54.25	2.4835G	-52.45	2.4868G	-51.16	24.49428G	-44.75	1
2462MHz	Pass	2.44451G	5.85	-24.15	948.89M	-53.82	2.39362G	-53.06	2.4835G	-53.33	2.49202G	-51.42	23.47722G	-45.13	2
2462MHz	Pass	2.44451G	5.85	-24.15	881.03M	-52.20	2.39616G	-53.66	2.4835G	-53.64	2.48566G	-51.42	24.91571G	-46.07	3
2462MHz	Pass	2.44451G	5.85	-24.15	943.07M	-53.87	2.39984G	-53.25	2.4835G	-54.43	2.48938G	-52.47	24.13465G	-45.43	4
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.43198G	0.74	-29.26	90.69M	-53.21	2.39948G	-44.64	2.4G	-49.70	2.48726G	-51.98	15.31585G	-45.80	1
2422MHz	Pass	2.43198G	0.74	-29.26	1.95217G	-53.42	2.397G	-44.08	2.4G	-48.75	2.49146G	-52.88	17.59876G	-45.71	2
2422MHz	Pass	2.43198G	0.74	-29.26	875.01M	-53.80	2.39952G	-47.39	2.4G	-49.43	2.49386G	-52.70	15.33828G	-45.10	3
2422MHz	Pass	2.43198G	0.74	-29.26	948.29M	-52.88	2.39796G	-47.59	2.4G	-51.16	2.48734G	-52.46	15.07185G	-45.77	4
2437MHz	Pass	2.43198G	0.74	-29.26	958.88M	-53.35	2.39952G	-42.68	2.4G	-47.75	2.48658G	-48.39	15.04941G	-45.37	1
2437MHz	Pass	2.43198G	0.74	-29.26	943.14M	-52.71	2.39956G	-44.26	2.4G	-47.30	2.4869G	-48.41	17.6829G	-45.52	2
2437MHz	Pass	2.43198G	0.74	-29.26	725.87M	-54.26	2.39964G	-44.21	2.4G	-47.97	2.48954G	-49.42	24.139G	-44.54	3



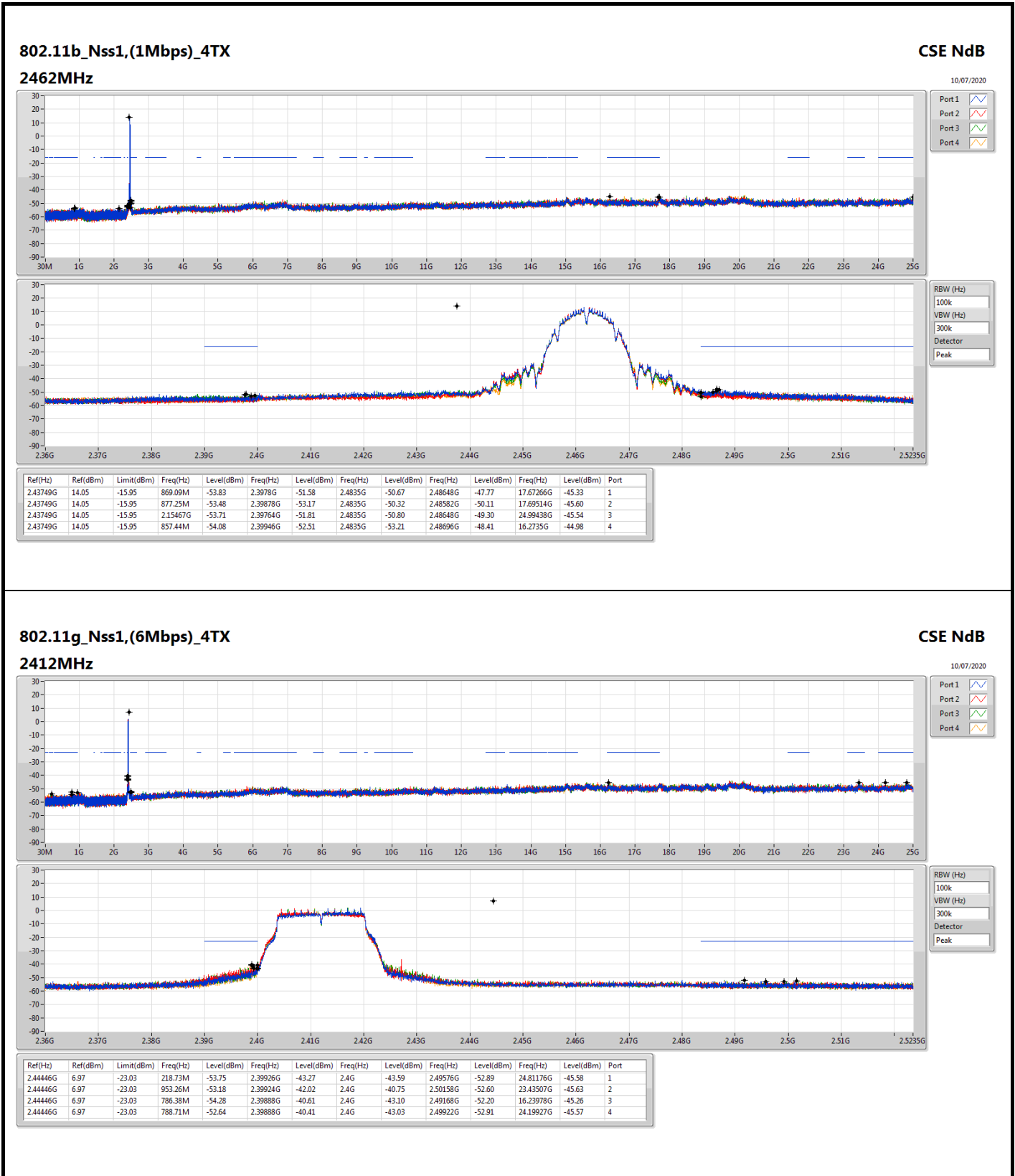
For EUT 2 / Radio 2 / External Ant.2\_Non-Beamforming Mode

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2437MHz	Pass	2.43198G	0.74	-29.26	914.23M	-53.74	2.39928G	-43.28	2.4G	-45.10	2.48358G	-46.67	17.68851G	-44.86	4
2452MHz	Pass	2.43198G	0.74	-29.26	1.80733G	-53.38	2.39504G	-52.20	2.4835G	-52.86	2.4845G	-48.24	17.69972G	-45.44	1
2452MHz	Pass	2.43198G	0.74	-29.26	1.99826G	-54.03	2.39812G	-52.61	2.4835G	-52.99	2.48946G	-46.20	15.02137G	-45.70	2
2452MHz	Pass	2.43198G	0.74	-29.26	951.73M	-53.52	2.3932G	-53.02	2.4835G	-52.64	2.48506G	-50.48	24.82612G	-46.25	3
2452MHz	Pass	2.43198G	0.74	-29.26	1.95331G	-53.54	2.39128G	-52.87	2.4835G	-51.38	2.4845G	-47.10	15.08026G	-46.30	4

For EUT 2 / Radio 2 / External Ant.2\_Non-Beamforming Mode



For EUT 2 / Radio 2 / External Ant.2\_Non-Beamforming Mode



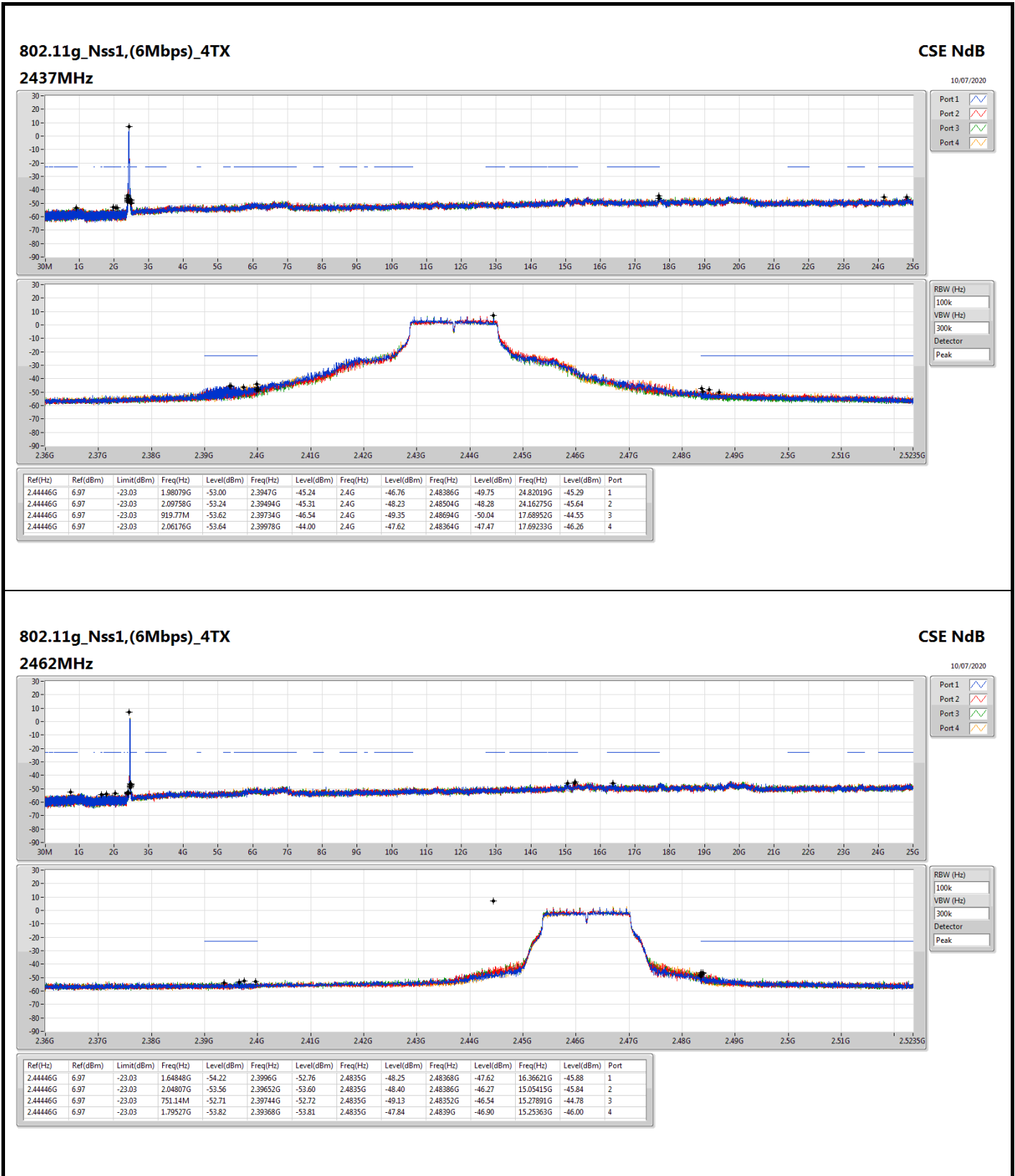
### 802.11g\_Nss1,(6Mbps)\_4TX

#### 2412MHz

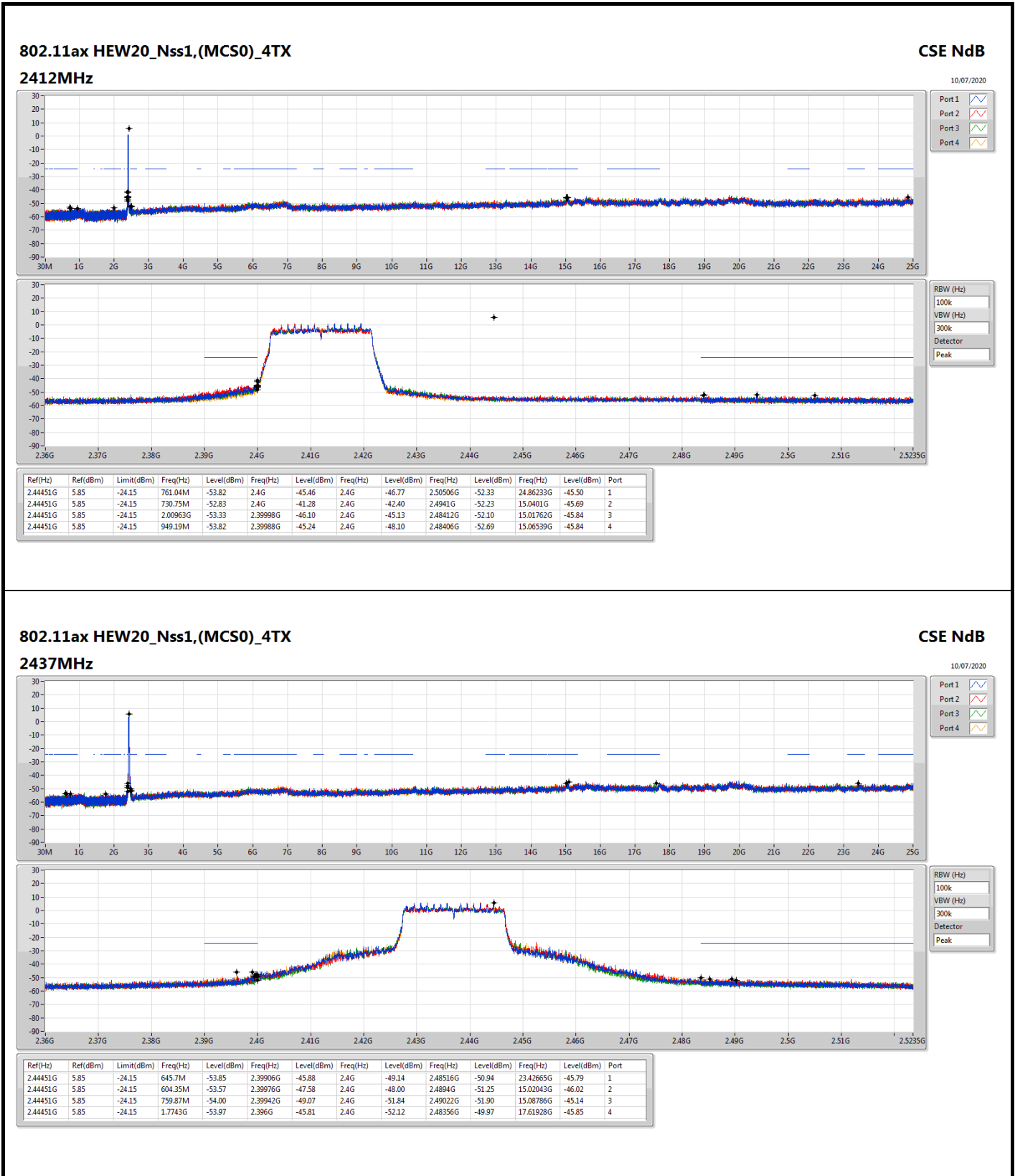
CSE NdB

10/07/2020

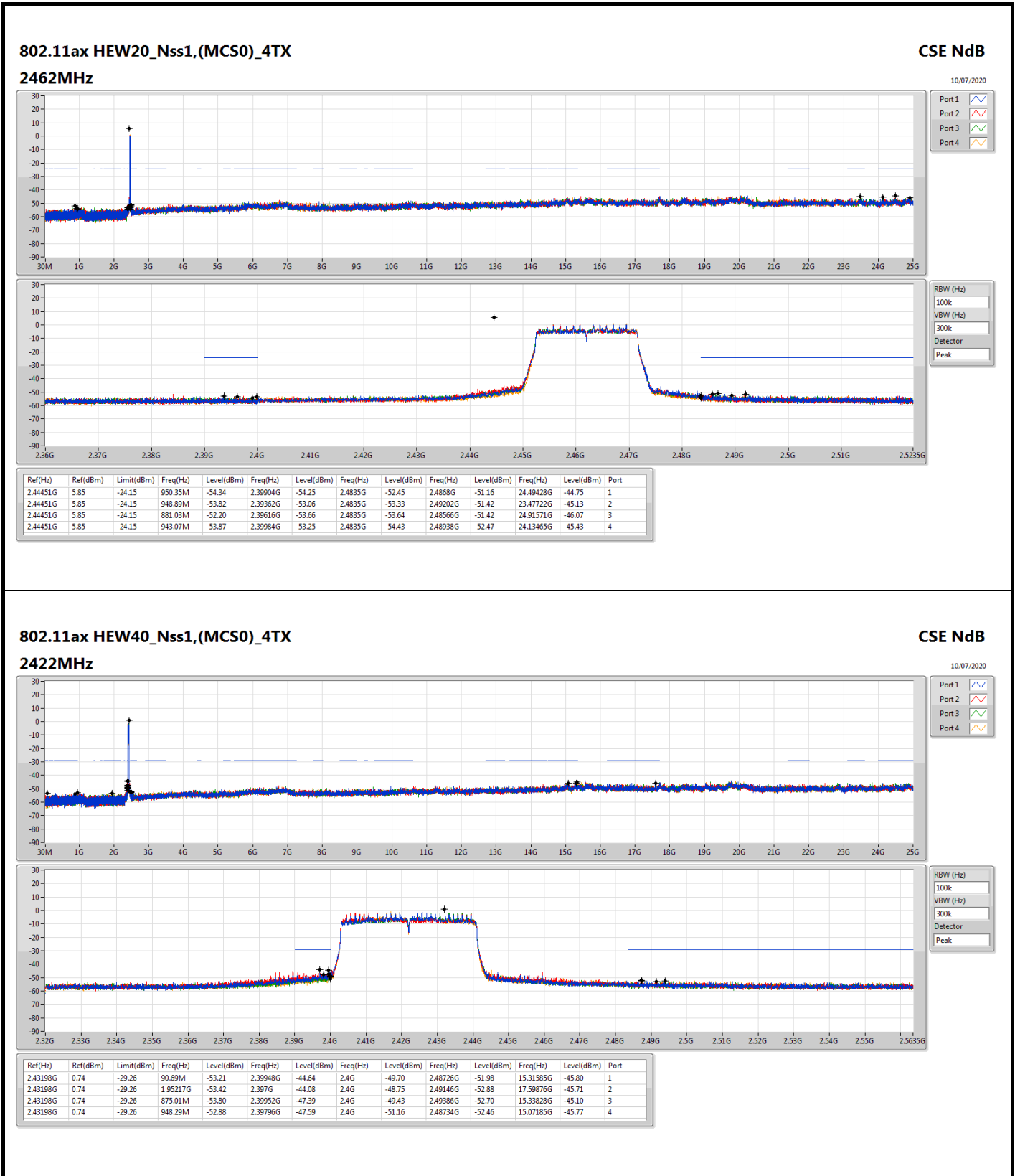
For EUT 2 / Radio 2 / External Ant.2\_Non-Beamforming Mode



For EUT 2 / Radio 2 / External Ant.2\_Non-Beamforming Mode

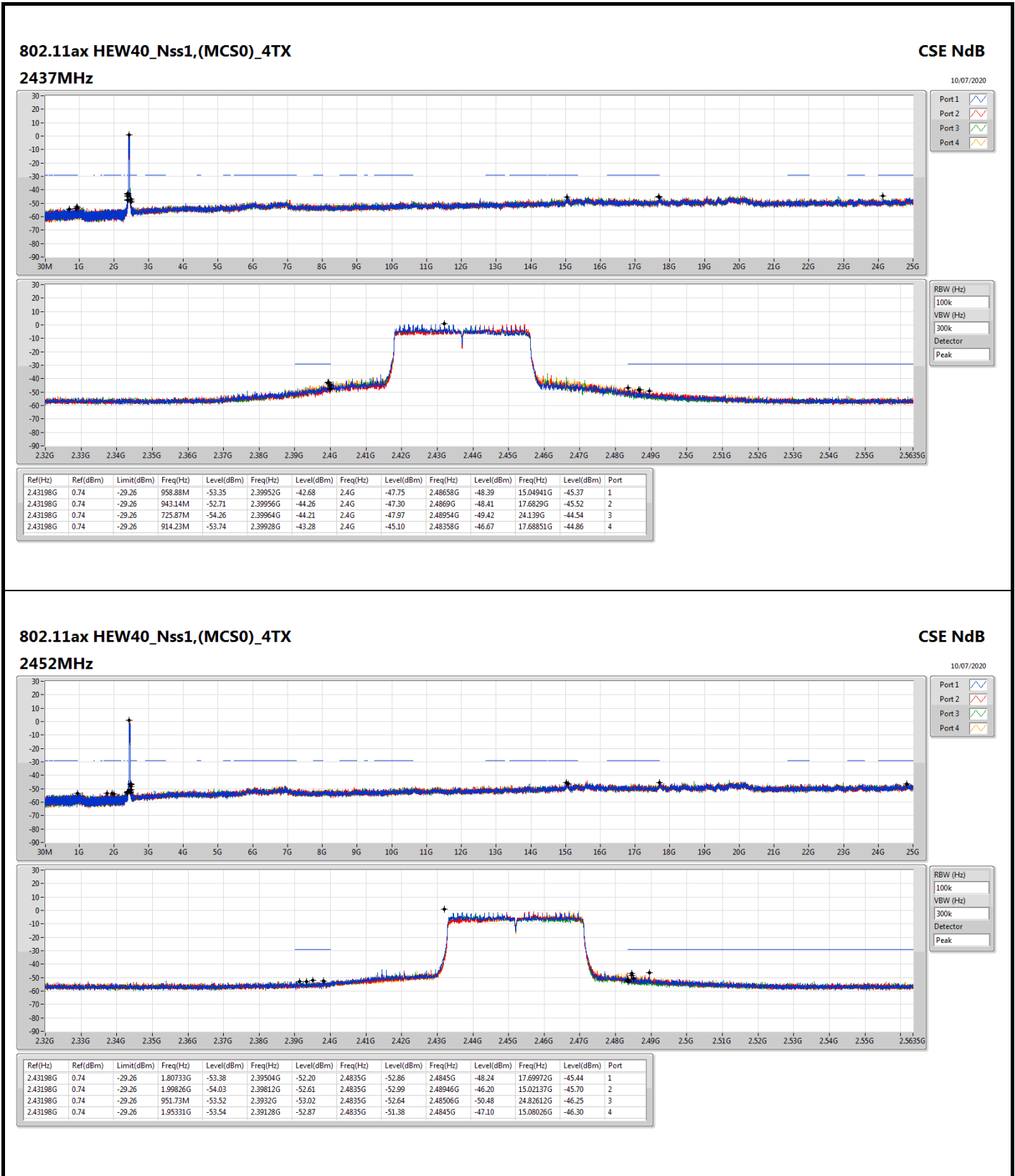


For EUT 2 / Radio 2 / External Ant.2\_Non-Beamforming Mode





For EUT 2 / Radio 2 / External Ant.2\_Non-Beamforming Mode



**802.11ax HEW40\_Nss1,(MCS0)\_4TX**

**2452MHz**

**CSE NdB**

10/07/2020



For EUT 2 / Radio 3 / External Ant.2\_Non-Beamforming Mode  
Summary

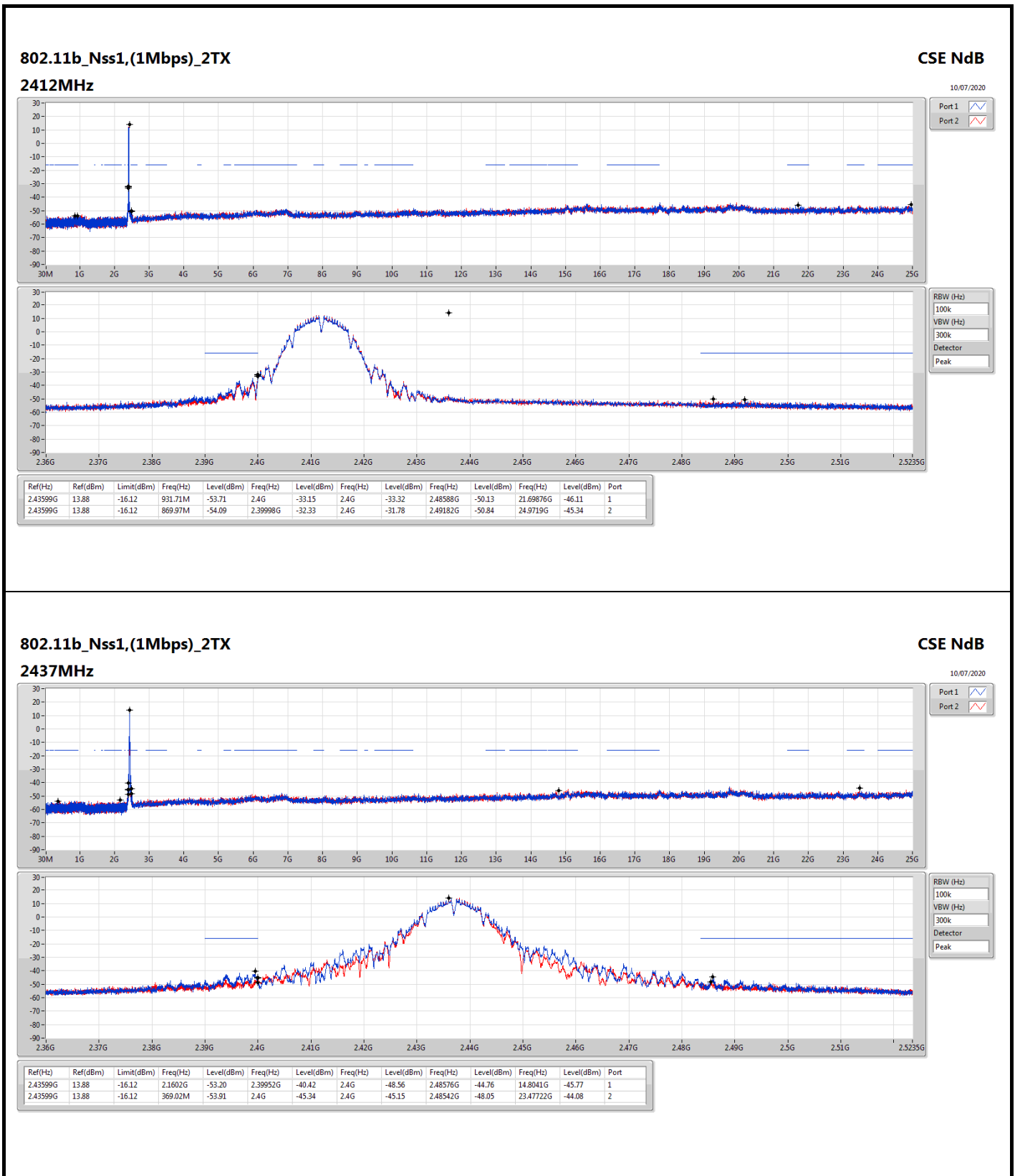
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	Pass	2.43599G	13.88	-16.12	869.97M	-54.09	2.39998G	-32.33	2.4G	-31.78	2.49182G	-50.84	24.9719G	-45.34	2
802.11g_Nss1,(6Mbps)_2TX	Pass	2.442G	8.56	-21.44	918.6M	-53.89	2.39976G	-36.62	2.4G	-38.55	2.48914G	-52.25	24.49428G	-45.64	2
802.11ax HEW20_Nss1,(MCS0)_2TX	Pass	2.44446G	6.96	-23.04	2.09409G	-53.95	2.39968G	-35.48	2.4G	-35.73	2.49306G	-52.04	23.4716G	-45.78	2
802.11ax HEW40_Nss1,(MCS0)_2TX	Pass	2.442G	0.41	-29.59	2.1305G	-53.64	2.39956G	-41.83	2.4G	-44.06	2.48598G	-48.89	17.05748G	-45.41	2



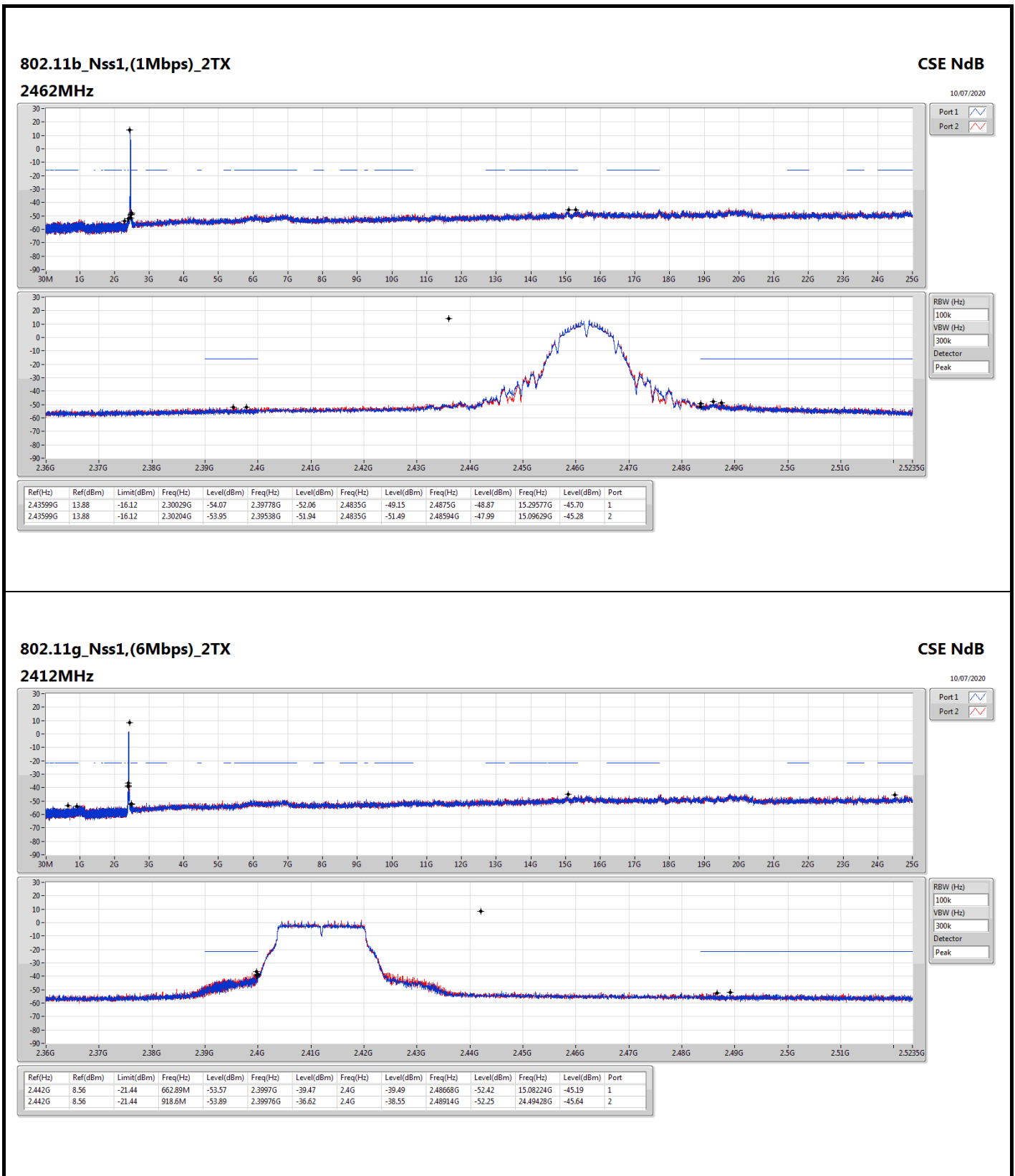
For EUT 2 / Radio 3 / External Ant.2\_Non-Beamforming Mode  
Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43599G	13.88	-16.12	931.71M	-53.71	2.4G	-33.15	2.4G	-33.32	2.48588G	-50.13	21.69876G	-46.11	1
2412MHz	Pass	2.43599G	13.88	-16.12	869.97M	-54.09	2.39998G	-32.33	2.4G	-31.78	2.49182G	-50.84	24.9719G	-45.34	2
2437MHz	Pass	2.43599G	13.88	-16.12	2.1602G	-53.20	2.39952G	-40.42	2.4G	-48.56	2.48576G	-44.76	14.8041G	-45.77	1
2437MHz	Pass	2.43599G	13.88	-16.12	369.02M	-53.91	2.4G	-45.34	2.4G	-45.15	2.48542G	-48.05	23.47722G	-44.08	2
2462MHz	Pass	2.43599G	13.88	-16.12	2.30029G	-54.07	2.39778G	-52.06	2.4835G	-49.15	2.4875G	-48.87	15.29577G	-45.70	1
2462MHz	Pass	2.43599G	13.88	-16.12	2.30204G	-53.95	2.39538G	-51.94	2.4835G	-51.49	2.48594G	-47.99	15.09629G	-45.28	2
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.442G	8.56	-21.44	662.89M	-53.57	2.3997G	-39.47	2.4G	-39.49	2.48668G	-52.42	15.08224G	-45.19	1
2412MHz	Pass	2.442G	8.56	-21.44	918.6M	-53.89	2.39976G	-36.62	2.4G	-38.55	2.48914G	-52.25	24.49428G	-45.64	2
2437MHz	Pass	2.442G	8.56	-21.44	207.66M	-54.39	2.39954G	-37.37	2.4G	-42.72	2.48756G	-42.21	15.04572G	-45.42	1
2437MHz	Pass	2.442G	8.56	-21.44	1.7708G	-53.91	2.39886G	-37.18	2.4G	-42.69	2.4876G	-42.66	15.02886G	-46.04	2
2462MHz	Pass	2.442G	8.56	-21.44	812.01M	-53.88	2.39816G	-53.40	2.4835G	-53.39	2.48442G	-47.75	23.37888G	-44.89	1
2462MHz	Pass	2.442G	8.56	-21.44	849.58M	-54.00	2.39794G	-53.02	2.4835G	-47.72	2.48388G	-46.65	15.07382G	-45.74	2
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.44446G	6.96	-23.04	1.76643G	-53.54	2.39988G	-35.59	2.4G	-37.00	2.51238G	-52.89	15.02886G	-44.82	1
2412MHz	Pass	2.44446G	6.96	-23.04	2.09409G	-53.95	2.39968G	-35.48	2.4G	-35.73	2.49306G	-52.04	23.4716G	-45.78	2
2437MHz	Pass	2.44446G	6.96	-23.04	817.25M	-54.10	2.39384G	-43.59	2.4G	-47.07	2.48406G	-46.37	16.64155G	-46.01	1
2437MHz	Pass	2.44446G	6.96	-23.04	724.34M	-53.84	2.39952G	-43.91	2.4G	-49.33	2.48542G	-47.09	15.06539G	-44.03	2
2462MHz	Pass	2.44446G	6.96	-23.04	759.29M	-53.75	2.392G	-53.43	2.4835G	-46.52	2.48374G	-45.72	24.93257G	-46.13	1
2462MHz	Pass	2.44446G	6.96	-23.04	782.59M	-53.30	2.3987G	-53.88	2.4835G	-51.04	2.48418G	-46.48	15.02605G	-45.74	2
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.442G	0.41	-29.59	1.81763G	-53.62	2.39964G	-43.59	2.4G	-46.38	2.48362G	-52.47	24.48677G	-44.92	1
2422MHz	Pass	2.442G	0.41	-29.59	2.1972G	-53.11	2.39964G	-45.12	2.4G	-47.48	2.49638G	-52.09	17.68851G	-45.56	2
2437MHz	Pass	2.442G	0.41	-29.59	2.11791G	-54.20	2.39472G	-42.93	2.4G	-48.01	2.48566G	-48.61	24.92708G	-45.59	1
2437MHz	Pass	2.442G	0.41	-29.59	2.1305G	-53.64	2.39956G	-41.83	2.4G	-44.06	2.48598G	-48.89	17.05748G	-45.41	2
2452MHz	Pass	2.442G	0.41	-29.59	856.12M	-54.14	2.39912G	-53.33	2.4835G	-50.37	2.48622G	-47.87	17.04626G	-45.74	1
2452MHz	Pass	2.442G	0.41	-29.59	2.0661G	-53.90	2.39392G	-52.66	2.4835G	-50.45	2.4845G	-45.94	15.00734G	-46.06	2

For EUT 2 / Radio 3 / External Ant.2\_Non-Beamforming Mode



For EUT 2 / Radio 3 / External Ant.2\_Non-Beamforming Mode



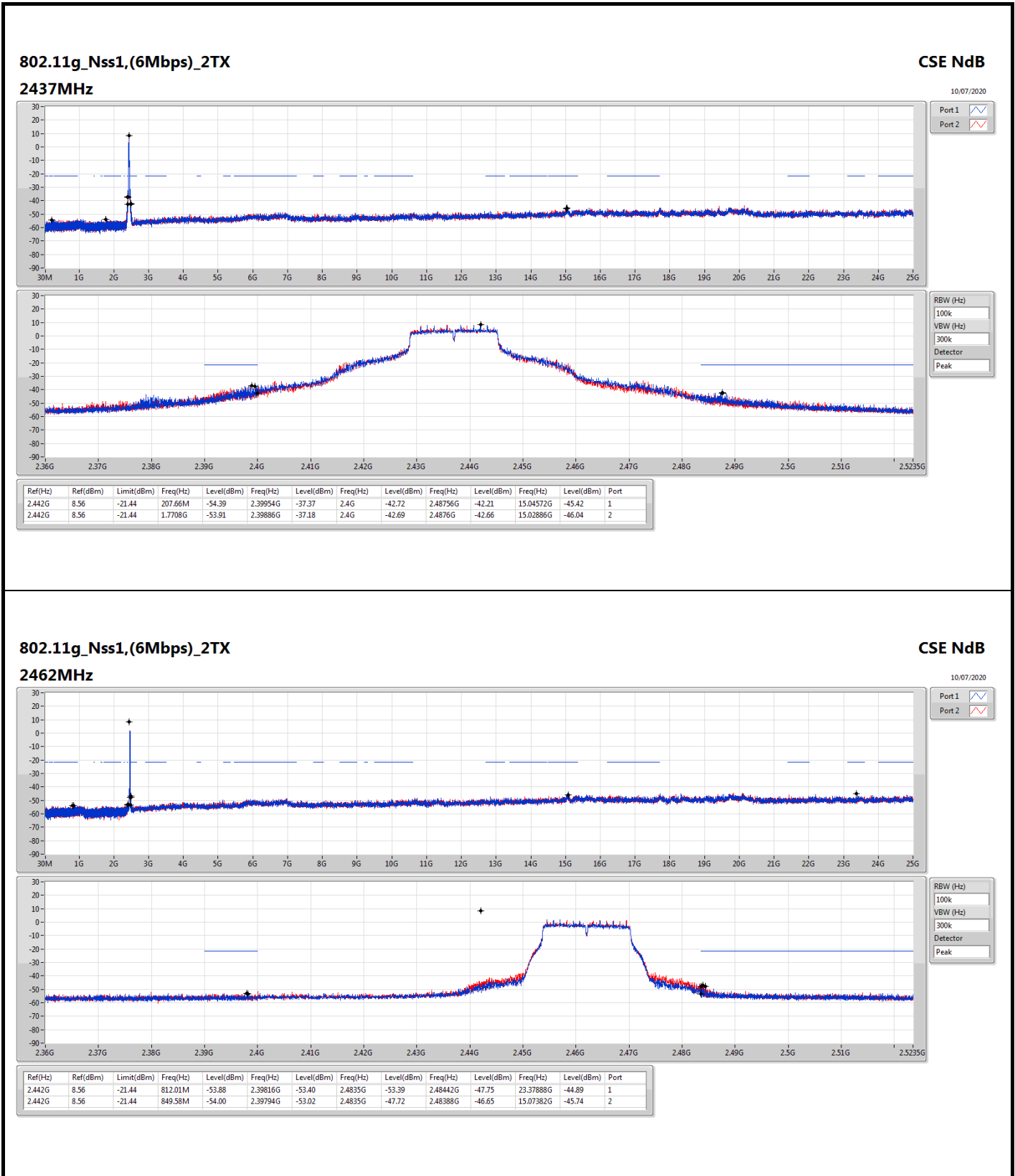
**802.11g\_Nss1,(6Mbps)\_2TX**

**2412MHz**

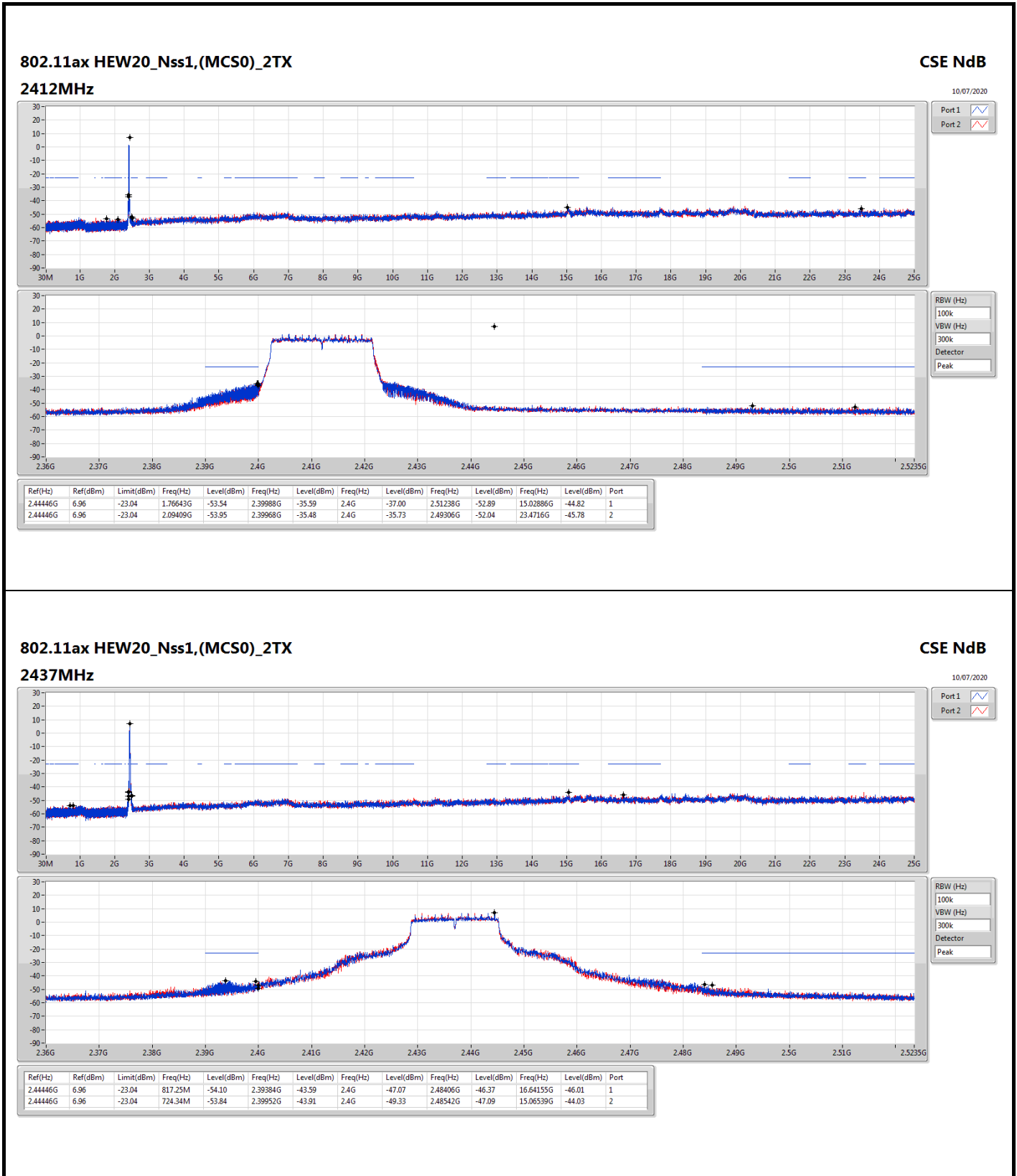
**CSE NdB**

10/07/2020

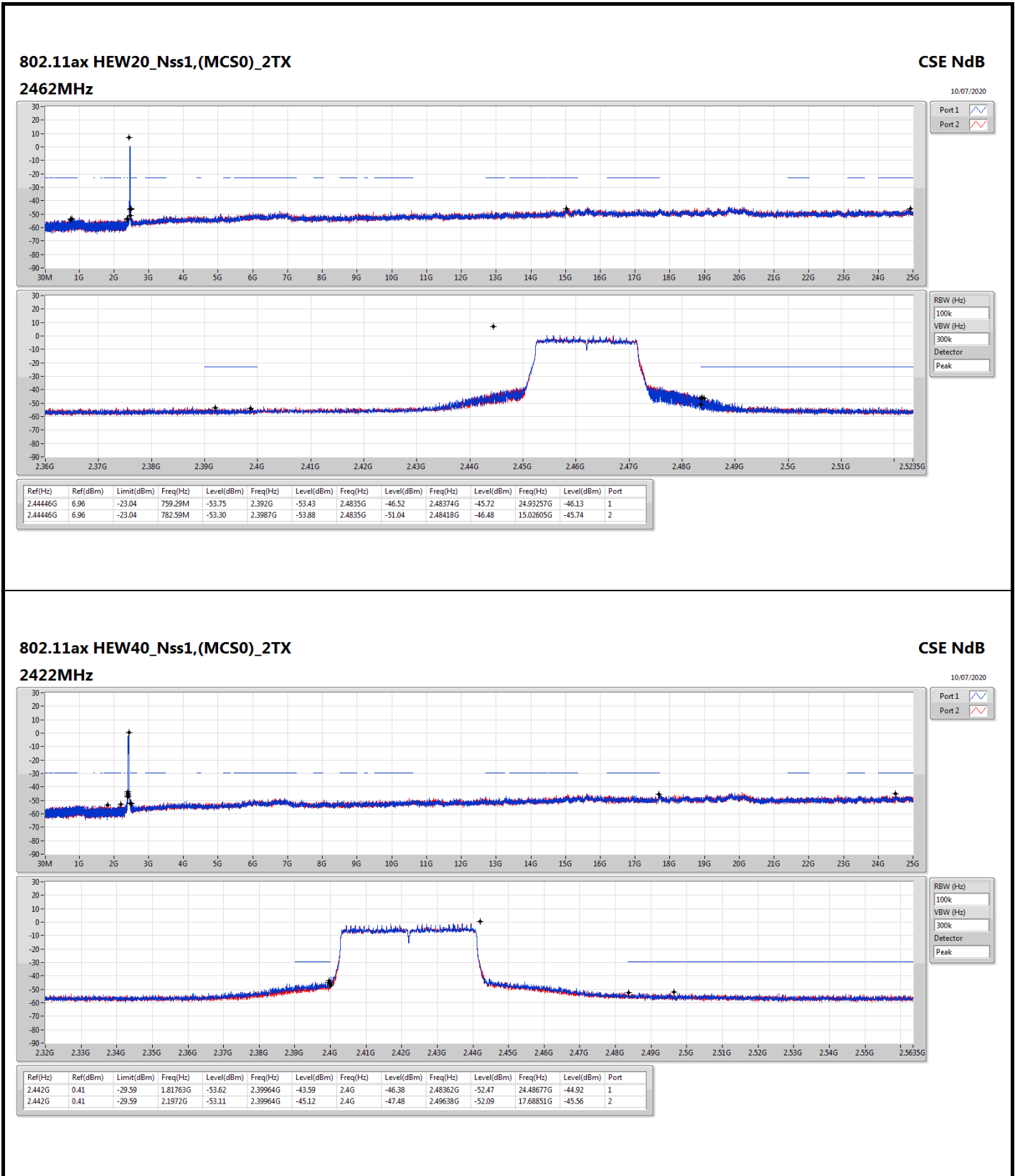
For EUT 2 / Radio 3 / External Ant.2\_Non-Beamforming Mode



For EUT 2 / Radio 3 / External Ant.2\_Non-Beamforming Mode

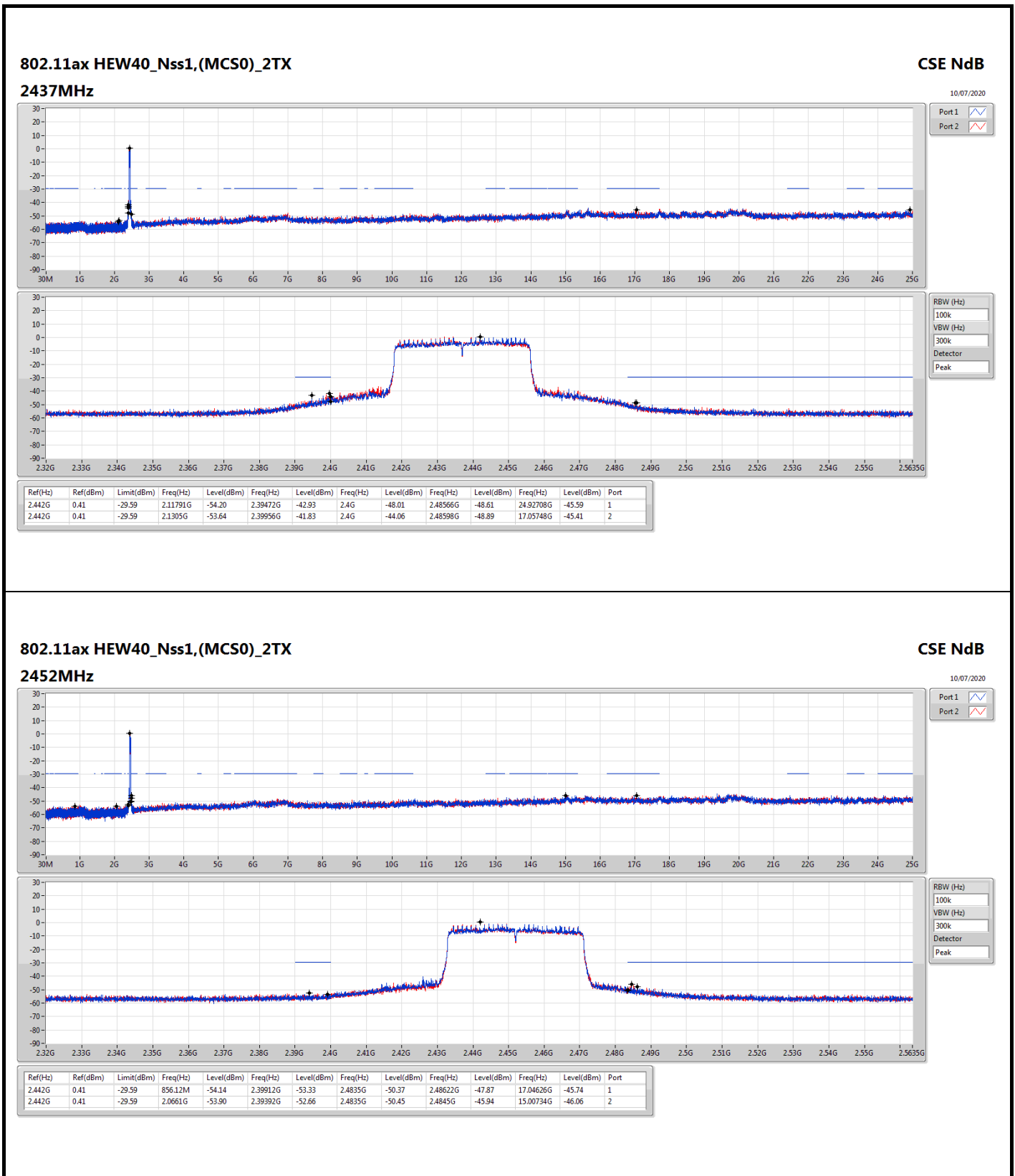


For EUT 2 / Radio 3 / External Ant.2\_Non-Beamforming Mode





For EUT 2 / Radio 3 / External Ant.2\_Non-Beamforming Mode



**802.11ax HEW40\_Nss1,(MCS0)\_2TX**

**2452MHz**

**CSE NdB**

10/07/2020

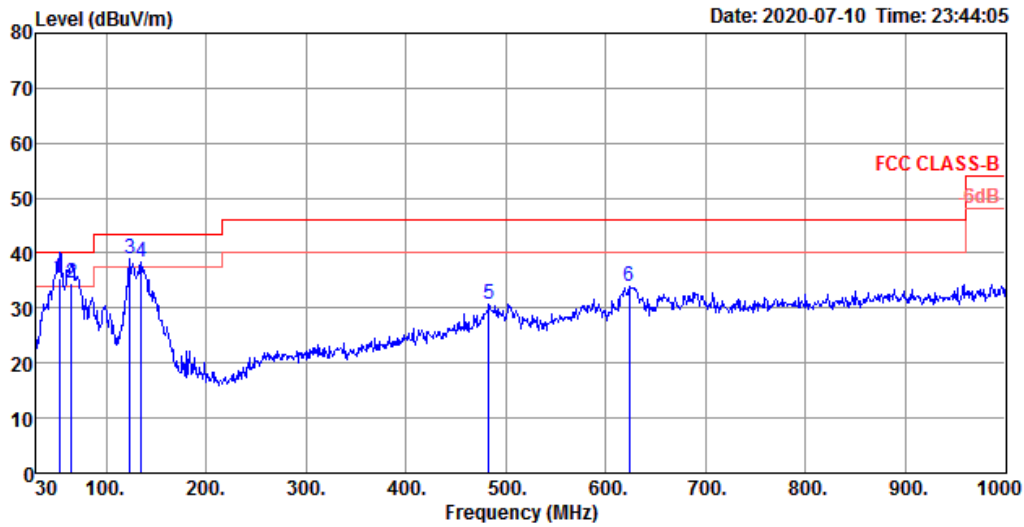


# Radiated Emission below 1GHz Result

Appendix F.1

<b>Test Mode</b>	Mode 1	<b>Frequency Range</b>	30 MHz to 1,000 MHz
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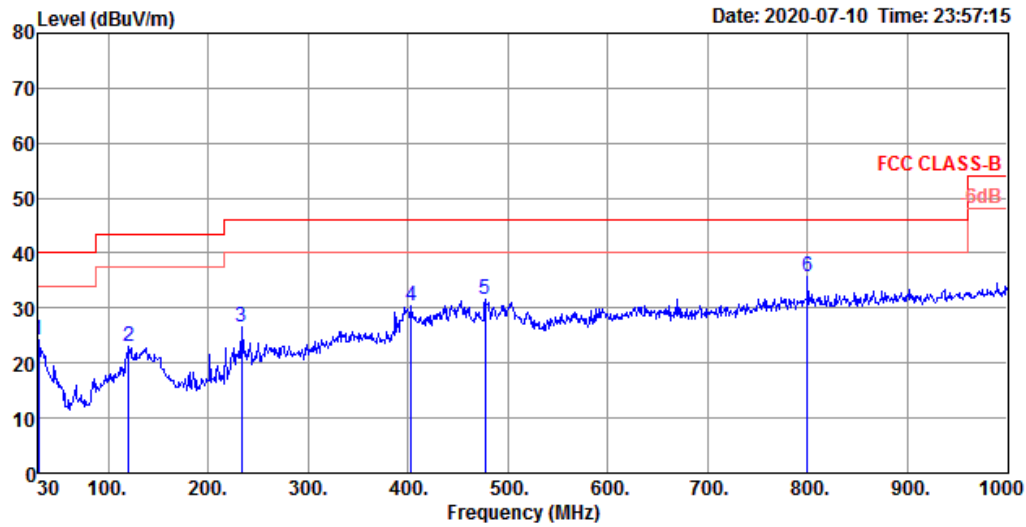
## Vertical 30 MHz to 1,000 MHz



	Freq	Level	Limit	Over	Read	Preamp	Antenna	Cable		A/Pos	T/Pos	
	MHz	dBuV/m	dBuV/m	dB	Level	Factor	Factor	Loss	Remark	cm	deg	Pol/Phase
1	53.28	35.36	40.00	-4.64	48.50	27.75	12.21	2.40	QP	200	344	VERTICAL
2	64.92	34.65	40.00	-5.35	48.22	27.61	11.41	2.63	QP	300	187	VERTICAL
3	124.09	38.90	43.50	-4.60	45.76	27.48	17.09	3.53	Peak	200	3	VERTICAL
4	134.76	38.45	43.50	-5.05	45.48	27.40	16.69	3.68	Peak	200	306	VERTICAL
5	482.99	30.79	46.00	-15.21	29.34	28.13	22.65	6.93	Peak	200	240	VERTICAL
6	623.64	33.92	46.00	-12.08	30.02	28.24	24.22	7.92	Peak	100	360	VERTICAL



Horizontal 30 MHz to 1,000 MHz



	Freq	Level	Limit	Over	Read	Preamp	Antenna	Cable		A/Pos	T/Pos	
	MHz	dBuV/m	dBuV/m	dB	Level	Factor	Factor	Loss	Remark	cm	deg	Pol/Phase
1	30.00	24.24	40.00	-15.76	26.93	27.72	23.22	1.81	Peak	100	330	HORIZONTAL
2	120.21	23.05	43.50	-20.45	29.86	27.51	17.22	3.48	Peak	100	258	HORIZONTAL
3	233.70	26.51	46.00	-19.49	32.99	27.02	15.72	4.82	Peak	100	352	HORIZONTAL
4	403.45	30.50	46.00	-15.50	30.56	27.37	20.98	6.33	Peak	400	11	HORIZONTAL
5	477.17	31.65	46.00	-14.35	30.26	28.10	22.59	6.90	Peak	100	342	HORIZONTAL
6	800.18	35.58	46.00	-10.42	28.79	27.35	25.09	9.05	Peak	200	328	HORIZONTAL



For EUT 1 / Radio 2\_Non-Beamforming Mode  
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_4TX	Pass	AV	2.3872G	53.97	54.00	-0.03	3	Horizontal	292	1.79	-

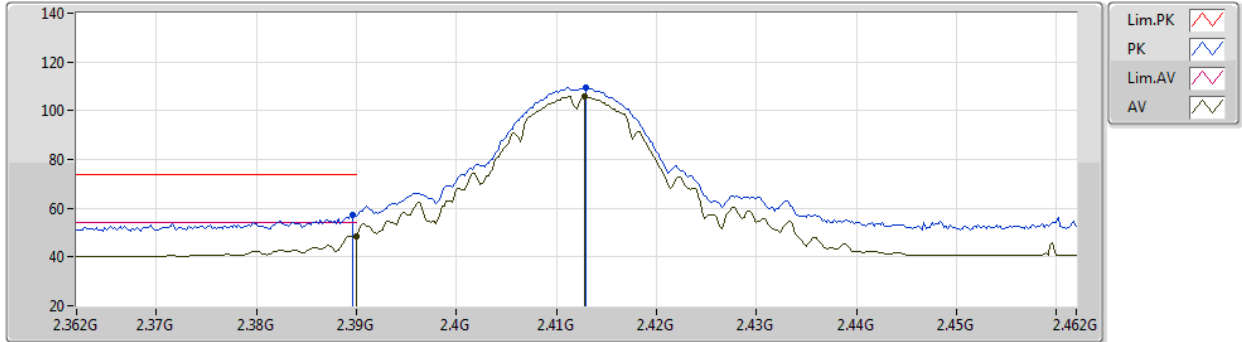


For EUT 1 / Radio 2\_Non-Beamforming Mode

802.11b\_Nss1,(1Mbps)\_4TX

03/07/2020

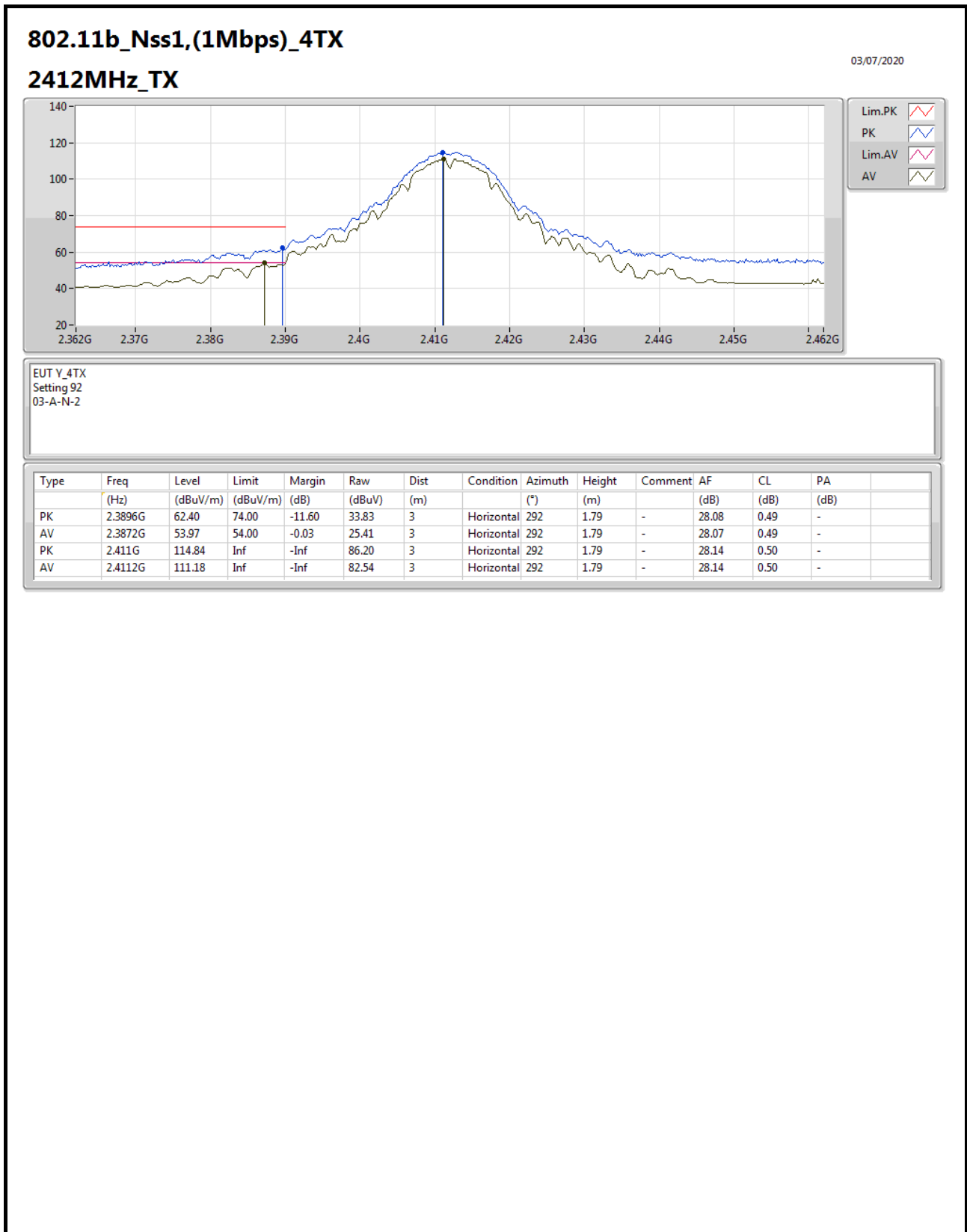
2412MHz\_TX



EUT\_V\_4TX  
Setting 92  
03-A-N-2

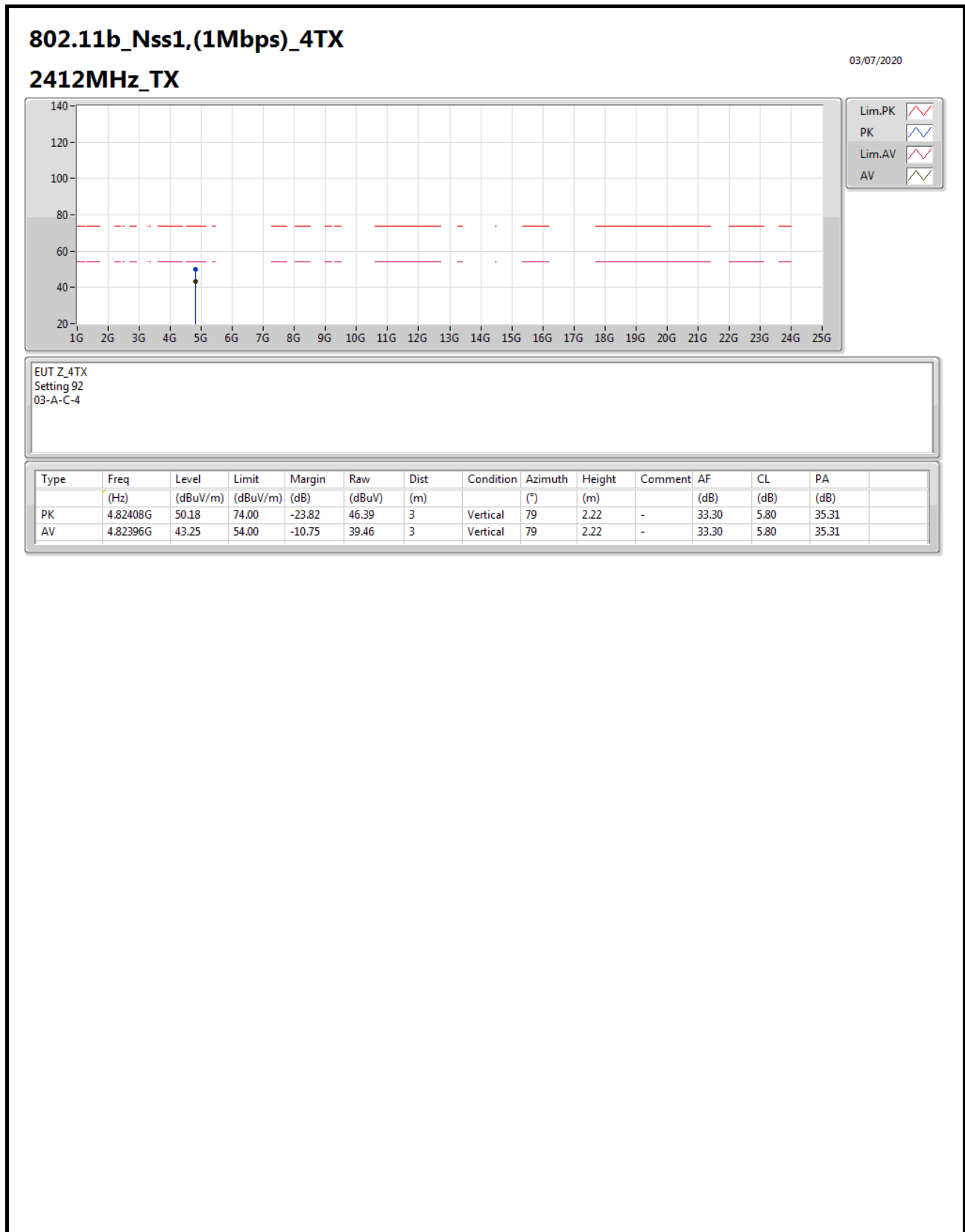
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3896G	57.49	74.00	-16.51	28.92	3	Vertical	165	1.76	-	28.08	0.49	-
AV	2.39G	48.64	54.00	-5.36	20.07	3	Vertical	165	1.76	-	28.08	0.49	-
PK	2.413G	109.74	Inf	-Inf	81.09	3	Vertical	165	1.76	-	28.15	0.50	-
AV	2.4128G	105.86	Inf	-Inf	77.21	3	Vertical	165	1.76	-	28.15	0.50	-

For EUT 1 / Radio 2\_Non-Beamforming Mode



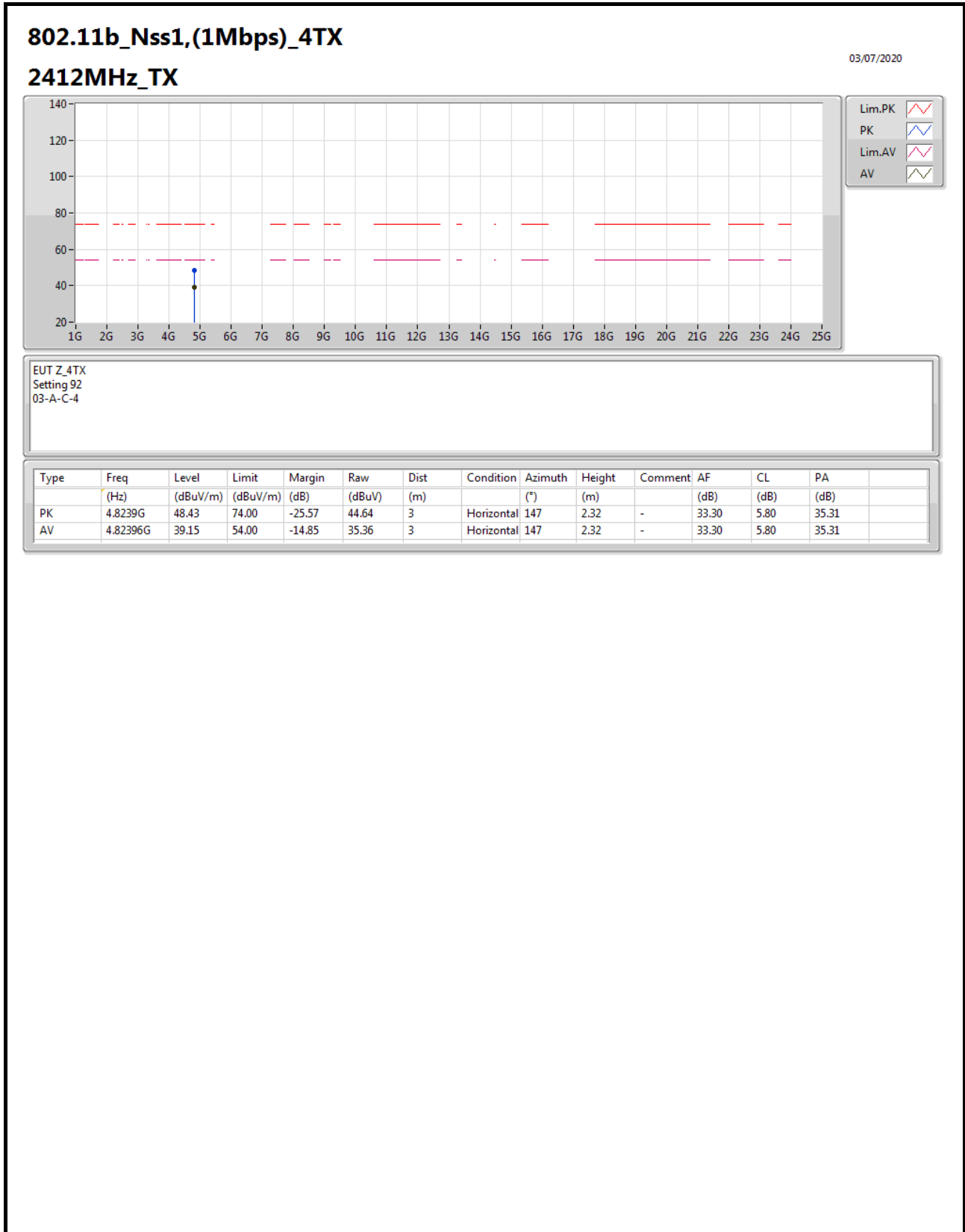


For EUT 1 / Radio 2\_Non-Beamforming Mode





For EUT 1 / Radio 2\_Non-Beamforming Mode





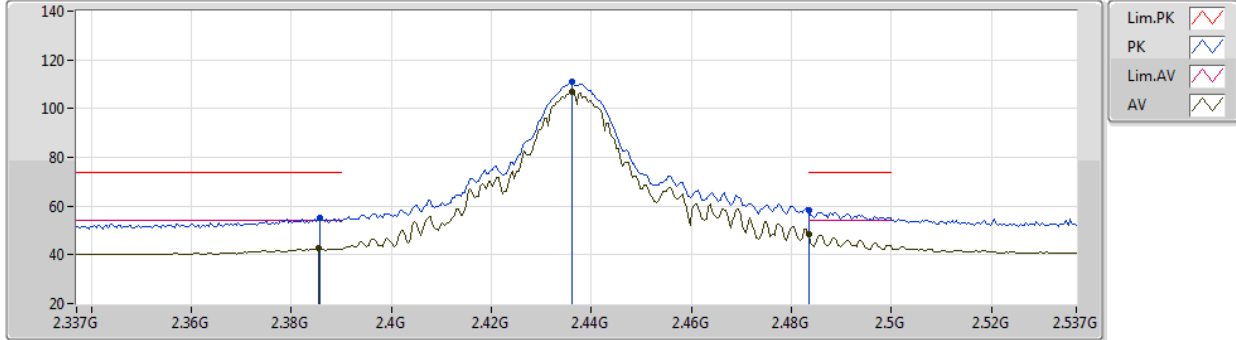


For EUT 1 / Radio 2\_Non-Beamforming Mode

802.11b\_Nss1,(1Mbps)\_4TX

03/07/2020

2437MHz\_TX



EUT\_Y\_4TX  
Setting 95  
03-A-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3858G	55.25	74.00	-18.75	26.69	3	Vertical	355	2.40	-	28.07	0.49	-
AV	2.3854G	42.91	54.00	-11.09	14.35	3	Vertical	355	2.40	-	28.07	0.49	-
PK	2.4362G	110.79	Inf	-Inf	82.05	3	Vertical	355	2.40	-	28.24	0.50	-
AV	2.4362G	106.90	Inf	-Inf	78.16	3	Vertical	355	2.40	-	28.24	0.50	-
PK	2.4835G	58.47	74.00	-15.53	29.54	3	Vertical	355	2.40	-	28.43	0.50	-
AV	2.4835G	48.38	54.00	-5.62	19.45	3	Vertical	355	2.40	-	28.43	0.50	-

For EUT 1 / Radio 2\_Non-Beamforming Mode

