

Project No.: TM-2304000001P
Report No.: TMWK2304001000KR

FCC ID: KA2E30A1

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RADIO TEST REPORT

FCC 47 CFR PART 15 SUBPART C

Test Standard	FCC Part 15.247
Product name	AX3000 Wi-Fi 6 Range Extender
Brand Name	D-Link
Model No.	E30
Test Result	Pass
Statements of Conformity	Determination of compliance is based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

The test Result was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were given in ANSI C63.10: 2013 and compliance standards.

The test results of this report relate only to the tested sample (EUT) identified in this report.

The test Report of full or partial shall not copy. Without written approval of Compliance Certification Services Inc. (Wugu Laboratory)

Approved by:

Sehni Hu

Sehni Hu
Supervisor

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	July 27, 2023	Initial Issue	ALL	Allison Chen



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1. GENERAL INFORMATION

1.1 EUT INFORMATION

Applicant	D-Link Corporation 14420 Myford Road Suite 100 Irvine California United States 92606
Manufacturer	D-Link Corporation 14420 Myford Road Suite 100 Irvine California United States 92606
Equipment	AX3000 Wi-Fi 6 Range Extender
Model Name	E30
Model Discrepancy	N/A
Brand Name	D-Link
Received Date	April 13, 2023
Date of Test	April 17 ~ May 26, 2023
Power Supply	Power from AC 120V. 60Hz
HW Version	A1
SW Version	1.00

Remark:

1. For more details, please refer to the User's manual of the EUT.
2. Disclaimer: Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.

1.2 EUT CHANNEL INFORMATION

Frequency Range	802.11b/g/n HT20 /ax (HE20): 2412 MHz ~ 2462 MHz 802.11n HT40/ax (HE40): 2422 MHz ~ 2452 MHz
Modulation Type	1. IEEE 802.11b mode: DSSS 2. IEEE 802.11g mode: OFDM 3. IEEE 802.11n HT20 mode: OFDM 4. IEEE 802.11n HT40 mode: OFDM 5. IEEE 802.11ax (HE20) mode: OFDMA 6. IEEE 802.11ax (HE40) mode: OFDMA
Number of channels	1. IEEE 802.11b mode: 11 Channels 2. IEEE 802.11g mode: 11 Channels 3. IEEE 802.11n HT20 mode: 11 Channels 4. IEEE 802.11n HT40 mode: 7 Channels 5. IEEE 802.11ax (HE20) mode: 11 Channels 6. IEEE 802.11ax (HE40) mode: 7 Channels

Remark:

Refer as ANSI C63.10: 2013 clause 5.6.1 Table 4 for test channels

Number of frequencies to be tested		
Frequency range in which device operates	Number of frequencies	Location in frequency range of operation
☐ 1 MHz or less	1	Middle
☐ 1 MHz to 10 MHz	2	1 near top and 1 near bottom
☒ More than 10 MHz	3	1 near top, 1 near middle, and 1 near bottom

1.3 ANTENNA INFORMATION

Antenna Specification	☐ PIFA ☐ PCB ☒ Dipole ☐ Coils			
Antenna Gain				
	Frequency	Ant4-2/5G (Chain 0) Gain (dBi)	Ant3-2/5G (Chain 1) Gain (dBi)	Total Gain (dBi)
	2412-2462 MHz	3.18	2.78	5.99
Antenna Brand/Model	Chain 0: M.gear / C1958-510031-A Chain 1: M.gear / C1958-510030-A			
Antenna connector	I-PEX MHF Connetcor			

Notes:

1. The antenna(s) of the EUT are permanently attached and there are no provisions for connection to an external antenna. So the EUT complies with the requirements of §15.203.
2. Power Directional Gain = $10 \cdot \log \{ [10^{(Ant1/20)} + 10^{(Ant2/20)} + \dots + 10^{(Ant N /20)}]^2 / N \text{ ANT} \}$ dBi

1.4 MEASUREMENT UNCERTAINTY

PARAMETER	UNCERTAINTY
AC Powerline Conducted Emission	± 2.213 dB
Channel Bandwidth	± 2.7 %
RF output power (Power Meter + Power sensor)	± 0.243 dB
Power Spectral density	± 2.739 dB
Conducted Bandedge	± 2.739 dB
Conducted Spurious Emission	± 2.742 dB
Radiated Emission_9kHz-30MHz	± 3.115 dB
Radiated Emission_30MHz-200MHz	± 4.071 dB
Radiated Emission_200MHz-1GHz	± 4.419 dB
Radiated Emission_1GHz-6GHz	± 5.023 dB
Radiated Emission_6GHz-18GHz	± 5.068 dB
Radiated Emission_18GHz-26GHz	± 3.349 dB
Radiated Emission_26GHz-40GHz	± 3.229 dB

Remark:

- 1.This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$
2. ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report.



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1.5 FACILITIES AND TEST LOCATION

All measurement facilities used to collect the measurement data are located at

AC Powerline Conducted Emission and Conducted:

☒ No.11, Wugong 6th Rd., Wugu Dist., New Taipei City, Taiwan.

Radiated emission 9kHz to 40GHz:

☐ No.11, Wugong 6th Rd., Wugu Dist., New Taipei City, Taiwan.

☒ No. 12, Ln. 116, Wugong 3rd Rd., Wugu Dist., New Taipei City, Taiwan 24803

CAB identifier: TW1309

Test site	Test Engineer	Remark
AC Conduction Room	Tony Chao	-
Radiation	Czerny Lin	-
RF Conducted	Marco Chan	-

Remark: The lab has been recognized as the FCC accredited lab. under the KDB 974614 D01 and is listed in the FCC public Access Link (PAL) database, FCC Registration No. :444940, the FCC Designation No.:TW1309.

1.6 INSTRUMENT CALIBRATION

RF Conducted Test Site					
Name of Equipment	Manufacturer	Model	Serial Number	Cal Date	Cal Due
Power Sensor	Anritsu	MA2411B	1911386	2022-08-08	2023-08-07
Power Sensor	Anritsu	MA2411B	1911387	2022-08-08	2023-08-07
EXA Signal Analyzer	Keysight	N9010B	MY60242460	2023-02-20	2024-02-01
Power Meter	Anritsu	ML2496A	2136002	2022-11-24	2023-11-23
Software	Radio Test Software Ver. 21 & E3-Ver: 6.11-20180413				

Remark:

- Each piece of equipment is scheduled for calibration once a year.
- N.C.R. = No Calibration Required.



3M 966 Chamber Test Site (966D_Radiated)					
Name of Equipment	Manufacturer	Model	Serial Number	Cal Date	Cal Due
Antenna	SHWARZBECK	VULB 9168	1277	2023-01-13	2024-01-12
Pre-Amplifier	EMCI	EMC118A45SE	980820	2022-12-23	2023-12-22
Pre-Amplifier	EMCI	EMC330N	980853	2022-12-23	2023-12-22
Coaxial Cable	EMC	EMC101G-KM-K M-9000	220407+211228+ 230205	2023-03-21	2024-03-20
Signal Generator	Agilent	N9010A	MY52220817	2023-03-09	2024-03-08
Coaxial Cable	EMC	EMCCFD400	211212+211222+ 211020	2023-03-21	2024-03-20
High Pass Filter	TITAN	T04H300018000 70S01	211215-7-1	2023-02-02	2024-02-01
Thermo-Hygro Meter	EDSDS	EDS-A49	966D1	2022-05-10	2023-05-09
				2023-05-11	2024-05-10
Pre-Amplifier	EMCI	EMC184045SE	980872	2023-01-03	2024-01-02
Horn Antenna	RF SPIN	DRH18-E	210301A18ES	2023-02-03	2024-02-02
Horn Antenna	SHWARZBECK	BBHA 9170	1134	2022-12-30	2023-12-29
Loop Antenna	SCHWARZBECK	FMZB 1513-60	1513-60-028	2022-12-27	2023-12-26
Software	e3 V9-210616c				

AC Conducted Emissions Test Site					
Name of Equipment	Manufacturer	Model	Serial Number	Cal Date	Cal Due
EMI Test Receiver	R&S	ESCI	100064	2022-06-17	2023-06-16
LISN	TESEQ	LN2-16N	22012	2023-03-08	2024-03-07
Cable	EMCI	CFD300-NL	CERF	2022-06-27	2023-06-26
Software	EZ-EMC(CCS-3A1-CE-wugu)				

Remark:

1. Each piece of equipment is scheduled for calibration once a year.
2. N.C.R. = No Calibration Required.



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1.7 SUPPORT AND EUT ACCESSORIES EQUIPMENT

EUT Accessories Equipment						
No.	Equipment	Brand	Model	Series No.	FCC ID	IC
	N/A					

Support Equipment						
No.	Equipment	Brand	Model	Series No.	FCC ID	IC
1	NB(E)	Lenovo	T460	N/A	N/A	N/A

1.8 TEST METHODOLOGY AND APPLIED STANDARDS

The test methodology, setups and results comply with all requirements in accordance with ANSI C63.10:2013, FCC Part 2, FCC Part 15.247, KDB 662911 and KDB 558074.



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2. TEST SUMMARY

FCC Standard Section	Report Section	Test Item	Result
15.203	1.3	Antenna Requirement	Pass
15.207(a)	4.1	AC Conducted Emission	Pass
15.247(a)(2)	4.2	6 dB Bandwidth	Pass
-	4.2	Occupied Bandwidth (99%)	Pass
15.247(b)	4.3	Output Power Measurement	Pass
15.247(e)	4.4	Power Spectral Density	Pass
15.247(d)	4.5	Conducted Band Edge	Pass
15.247(d)	4.5	Conducted Spurious Emission	Pass
15.247(d)	4.6	Radiation Band Edge	Pass
15.247(d)	4.6	Radiation Spurious Emission	Pass

3. DESCRIPTION OF TEST MODES

3.1 THE WORST MODE OF OPERATING CONDITION

Operation mode	IEEE 802.11b mode:1Mbps IEEE 802.11g mode:6Mbps IEEE 802.11n HT20 mode: MCS0 IEEE 802.11n HT40 mode: MCS0 IEEE 802.11ax (HE20) mode: MCS0 IEEE 802.11ax (HE40) mode: MCS0
Operation Transmitter	IEEE 802.11b mode: 2T2R(SISO) IEEE 802.11g mode: 2T2R(SISO) IEEE 802.11n HT20 mode: 2T2R(MIMO) IEEE 802.11n HT40 mode: 2T2R(MIMO) IEEE 802.11ax (HE20) mode: 2T2R(MIMO) IEEE 802.11ax (HE40) mode: 2T2R(MIMO)
Test Channel Frequencies	IEEE 802.11b mode: 1. Lowest Channel: 2412 MHz 2. Middle Channel: 2437MHz 3. Highest Channel: 2462 MHz IEEE 802.11g mode : 1. Lowest Channel: 2412 MHz 2. Middle Channel: 2437MHz 3. Highest Channel: 2462 MHz IEEE 802.11n HT20 mode : 1. Lowest Channel: 2412 MHz 2. Middle Channel: 2437MHz 3. Highest Channel: 2462 MHz IEEE 802.11 ax(HE20) mode : 1. Lowest Channel: 2412 MHz 2. Middle Channel: 2437MHz 3. Highest Channel: 2462 MHz IEEE 802.11n HT40 mode : 1. Lowest Channel: 2422 MHz 2. Middle Channel: 2437MHz 3. Highest Channel: 2452 MHz IEEE 802.11 ax(HE40) mode : 1. Lowest Channel: 2422 MHz 2. Middle Channel: 2437MHz 3. Highest Channel: 2452 MHz

Remark:

1. EUT pre-scanned data rate of output power for each mode, the worst data rate were recorded in this report.

3.2 THE WORST MODE OF MEASUREMENT

Radiated Emission Measurement Above 1G	
Test Condition	Radiated Emission Above 1G
Power supply Mode	Mode 1: EUT power by Adapter
Worst Mode	☒ Mode 1 ☐ Mode 2 ☐ Mode 3 ☐ Mode 4
Worst Position	☐ Placed in fixed position. ☐ Placed in fixed position at X-Plane (E2-Plane) ☒ Placed in fixed position at Y-Plane (E1-Plane) ☐ Placed in fixed position at Z-Plane (H-Plane)

Radiated Emission Measurement Below 1G	
Test Condition	Radiated Emission Below 1G
Power supply Mode	Mode 1: EUT power by Adapter
Worst Mode	☒ Mode 1 ☐ Mode 2 ☐ Mode 3 ☐ Mode 4

AC Power Line Conducted Emission	
Test Condition	AC Power line conducted emission for line and neutral
Power supply Mode	Mode 1: EUT power by Adapter
Worst Mode	☒ Mode 1 ☐ Mode 2 ☐ Mode 3 ☐ Mode 4

Remark:

1. The worst mode was record in this test report.
2. EUT pre-scanned in three axis ,X,Y, Z and two polarity, for radiated measurement. The worst case(Y-Plane) were recorded in this report
3. AC power line conducted emission and for below 1G radiation emission were performed the EUT transmit at the highest output power channel as worst case.
4. The device supports SISO and MIMO at 802.11n20/n40/ax20/ax40 mode, per pre-test, MIMO 2TX mode was the worst and reported.
5. The device supports non_BF and BF modes. Since the non_BF mode has higher power and similar to BF radio frequency characteristics, some test items of BF mode will be exempted.



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3.3 EUT DUTY CYCLE

Temperature: 24.8°C

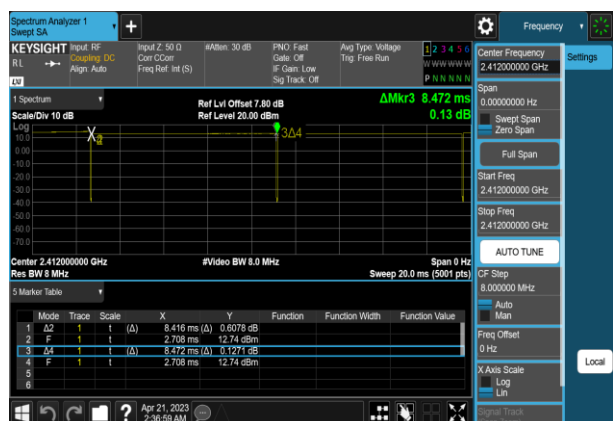
Test date: April 21, 2023

Humidity: 64% RH

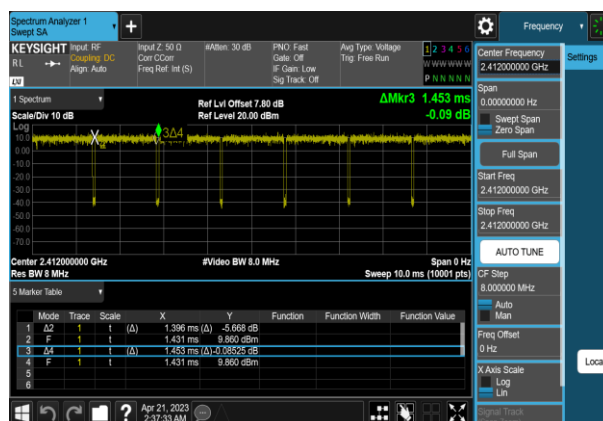
Tested by: Marco Chan

Duty Cycle				
Configuration	Duty Cycle (%)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11b	99.34	0.03	0.12	0.01
802.11g	96.08	0.17	0.72	1.00
802.11n_20	95.82	0.19	0.76	1.00
802.11n_40	91.91	0.37	1.54	2.00
802.11ax_20	84.55	0.73	3.21	4.00
802.11ax_40	84.55	0.73	3.21	4.00

802.11b



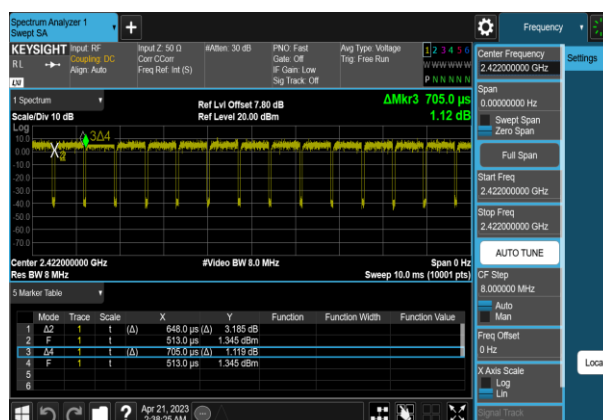
802.11g



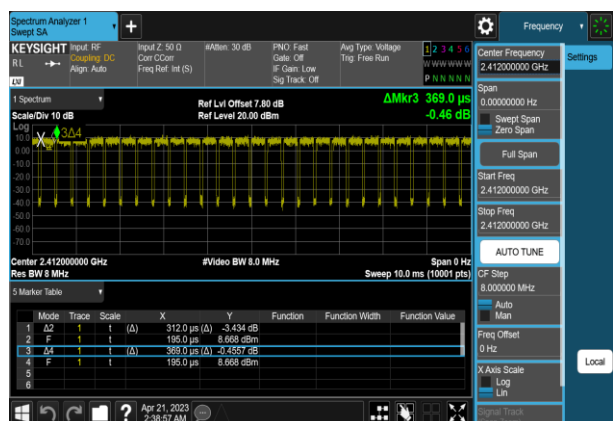
802.11n HT20



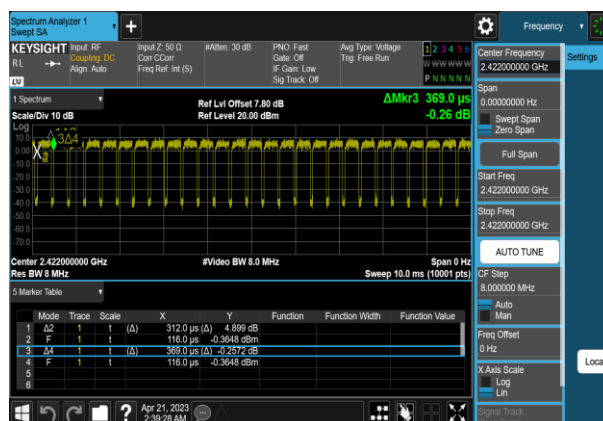
802.11n HT40



802.11ax HE20



802.11ax HE40



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4. TEST RESULT

4.1 AC POWER LINE CONDUCTED EMISSION

4.1.1 Test Limit

According to §15.207(a)(2)

Frequency Range (MHz)	Limits(dBμV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56*	56 to 46*
0.50 to 5	56	46
5 to 30	60	50

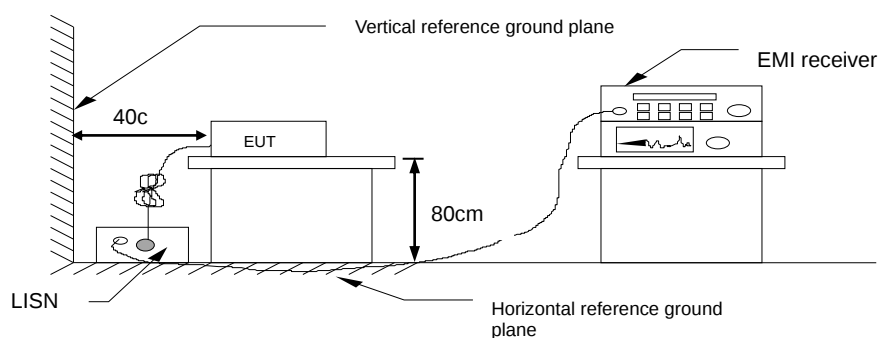
* Decreases with the logarithm of the frequency.

4.1.2 Test Procedure

Test method Refer as ANSI C63.10: 2013 clause 6.2,

1. The EUT was placed on a non-conducted table, which is 0.8m above horizontal ground plane and 0.4m above vertical ground plane.
2. EUT connected to the line impedance stabilization network (LISN)
3. Receiver set RBW of 9kHz and Detector Peak, and note as quasi-peak and average.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. Recorded Line for Neutral and Line.

4.1.3 Test Setup

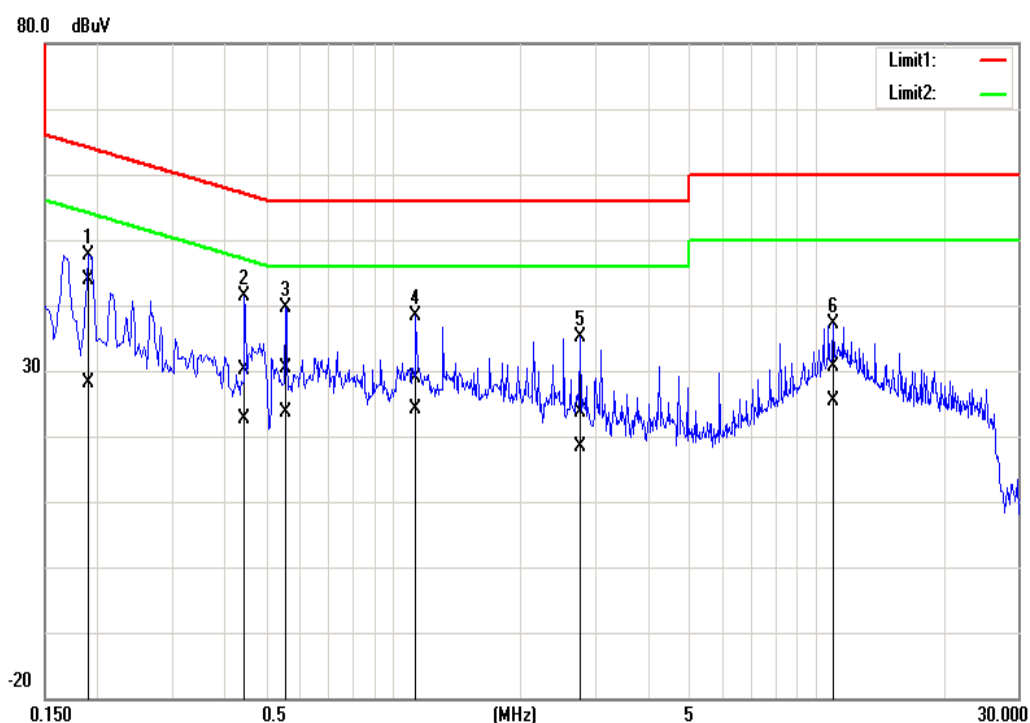


4.1.4 Test Result

Pass.

Test Data

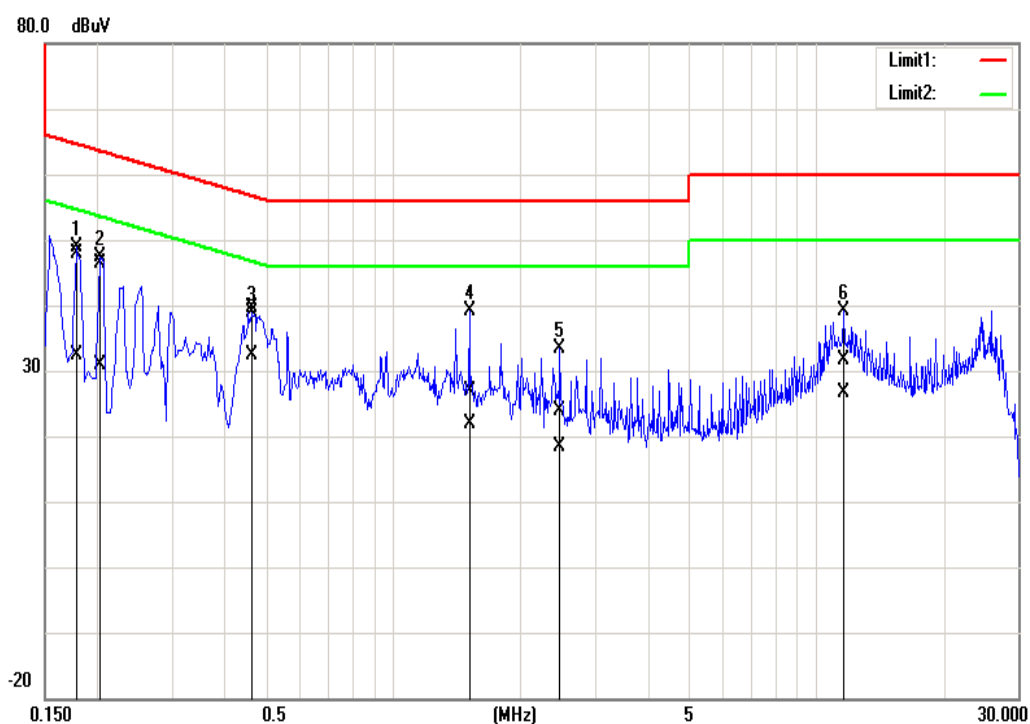
Test Mode:	Mode 1	Temp/Hum	25.2(°C)/ 59%RH
Phase:	Line	Test Date	May 8, 2023
Test Voltage:	120Vac, 60Hz	Test Engineer	Tony Chao



Frequency (MHz)	Quasi Peak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	Quasi Peak result (dBuV)	Average result (dBuV)	Quasi Peak limit (dBuV)	Average limit (dBuV)	Quasi Peak margin (dB)	Average margin (dB)	Remark
0.1900	43.69	28.05	0.15	43.84	28.20	64.04	54.04	-20.20	-25.84	Pass
0.4460	29.94	22.52	0.15	30.09	22.67	56.95	46.95	-26.86	-24.28	Pass
0.5580	30.24	23.46	0.15	30.39	23.61	56.00	46.00	-25.61	-22.39	Pass
1.1340	28.82	23.99	0.16	28.98	24.15	56.00	46.00	-27.02	-21.85	Pass
2.7700	23.30	18.04	0.23	23.53	18.27	56.00	46.00	-32.47	-27.73	Pass
11.0020	30.31	25.07	0.37	30.68	25.44	60.00	50.00	-29.32	-24.56	Pass

Note: 1. Correction factor = LISN loss + Cable loss.

Test Mode:	Mode 1	Temp/Hum	25.2(°C)/ 59%RH
Phase:	Neutral	Test Date	May 8, 2023
Test Voltage:	120Vac, 60Hz	Test Engineer	Tony Chao



Frequency (MHz)	Quasi Peak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	Quasi Peak result (dBuV)	Average result (dBuV)	Quasi Peak limit (dBuV)	Average limit (dBuV)	Quasi Peak margin (dB)	Average margin (dB)	Remark
0.1780	47.67	32.12	0.20	47.87	32.32	64.58	54.58	-16.71	-22.26	Pass
0.2020	46.22	30.67	0.19	46.41	30.86	63.53	53.53	-17.12	-22.67	Pass
0.4620	39.38	32.17	0.19	39.57	32.36	56.66	46.66	-17.09	-14.30	Pass
1.5180	26.62	21.58	0.24	26.86	21.82	56.00	46.00	-29.14	-24.18	Pass
2.4820	23.53	18.21	0.26	23.79	18.47	56.00	46.00	-32.21	-27.53	Pass
11.6660	31.14	26.30	0.40	31.54	26.70	60.00	50.00	-28.46	-23.30	Pass

Note: 1. Correction factor = LISN loss + Cable loss.

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4.2 6dB BANDWIDTH AND OCCUPIED BANDWIDTH (99%)

4.2.1 Test Limit

According to §15.247(a)(2)

6 dB Bandwidth :

Limit	Shall be at least 500kHz
-------	--------------------------

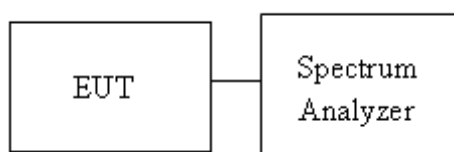
Occupied Bandwidth(99%) : For reporting purposes only.

4.2.2 Test Procedure

Test method Refer as ANSI C63.10: 2013,

1. The EUT RF output connected to the spectrum analyzer by RF cable.
2. Setting maximum power transmit of EUT
3. SA set RBW = 100kHz, VBW = 300kHz and Detector = Peak, to measurement 6 dB Bandwidth.
4. SA set RBW = 1% ~ 5% OBW, VBW = three times the RBW and Detector = Peak, to measurement 99% Bandwidth
5. Measure and record the result of 6 dB Bandwidth and 99% Bandwidth. in the test report.

4.2.3 Test Setup



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4.2.4 Test Result

Non-Beamforming

Temperature: 24.8°C

Test date: April 21, 2023

Humidity: 64% RH

Tested by: Marco Chan

Test mode: IEEE 802.11b mode / 2412-2462 MHz						
Channel	Frequency (MHz)	Chain 0 OBW (99%) (MHz)	Chain 1 OBW (99%) (MHz)	Chain 0 6dB BW (kHz)	Chain 1 6dB BW (kHz)	6dB limit (kHz)
1	2412	12.58	12.579	8091.00	8075.00	≥500
6	2437	12.7	12.681	8085.00	8086.00	
11	2462	12.776	12.761	8096.00	8097.00	

Test mode: IEEE 802.11g mode / 2412-2462 MHz						
Channel	Frequency (MHz)	Chain 0 OBW (99%) (MHz)	Chain 1 OBW (99%) (MHz)	Chain 0 6dB BW (kHz)	Chain 1 6dB BW (kHz)	6dB limit (kHz)
1	2412	17.137	16.819	16020.00	16310.00	≥500
6	2437	18.609	17.766	15350.00	16300.00	
11	2462	17.146	16.837	15800.00	16290.00	

Test mode: IEEE 802.11n HT20 mode / 2412-2462 MHz						
Channel	Frequency (MHz)	Chain 0 OBW (99%) (MHz)	Chain 1 OBW (99%) (MHz)	Chain 0 6dB BW (kHz)	Chain 1 6dB BW (kHz)	6dB limit (kHz)
1	2412	18.001	17.867	16120.00	17610.00	≥500
6	2437	18.308	18.522	16120.00	17560.00	
11	2462	18.125	17.912	16260.00	17140.00	

Test mode: IEEE 802.11n HT40 mode / 2422-2452 MHz						
Channel	Frequency (MHz)	Chain 0 OBW (99%) (MHz)	Chain 1 OBW (99%) (MHz)	Chain 0 6dB BW (kHz)	Chain 1 6dB BW (kHz)	6dB limit (kHz)
3	2422	36.31	36.169	35170.00	35160.00	≥500
6	2437	36.364	36.176	35160.00	35160.00	
9	2452	36.364	36.192	35340.00	35160.00	



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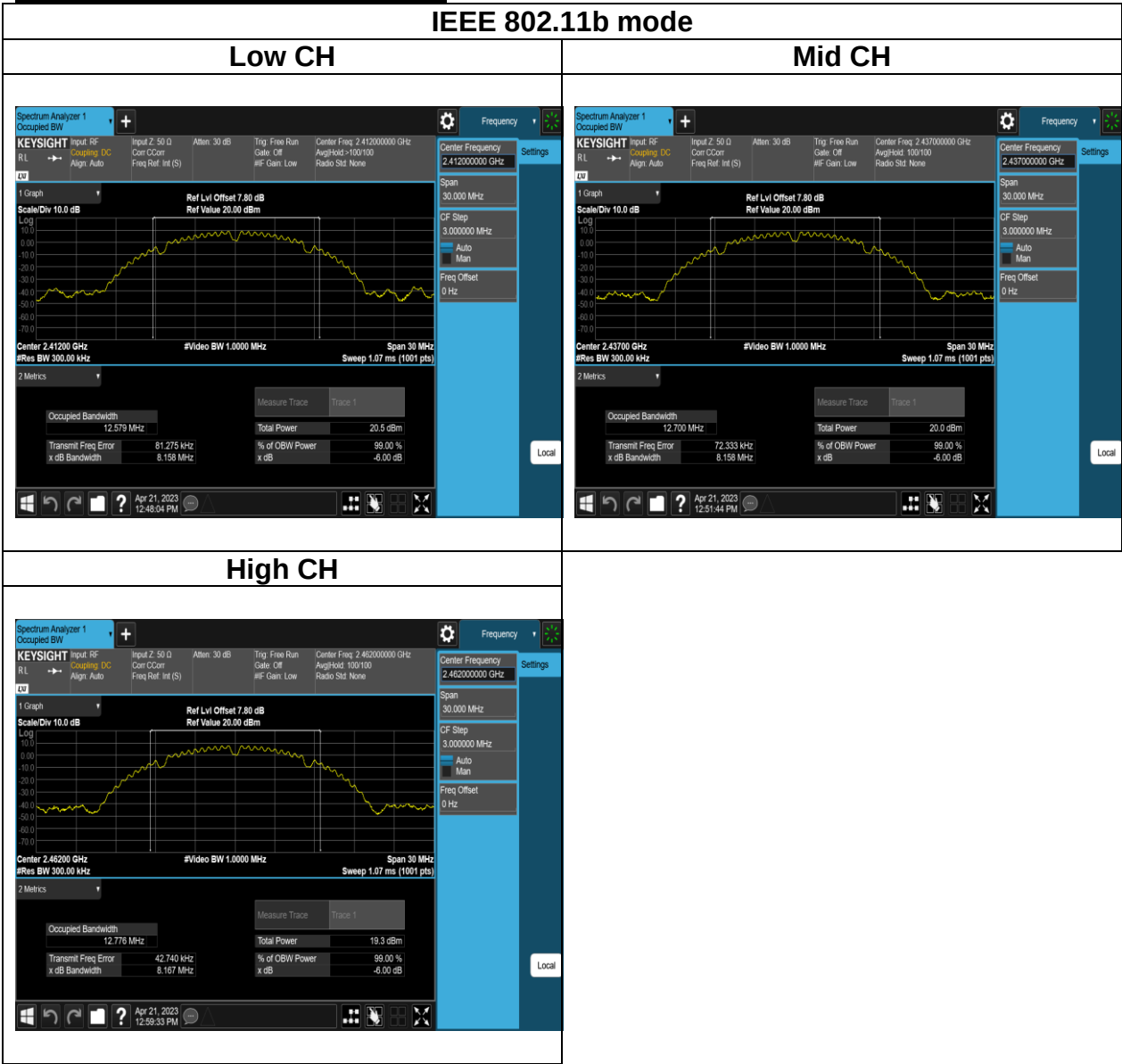
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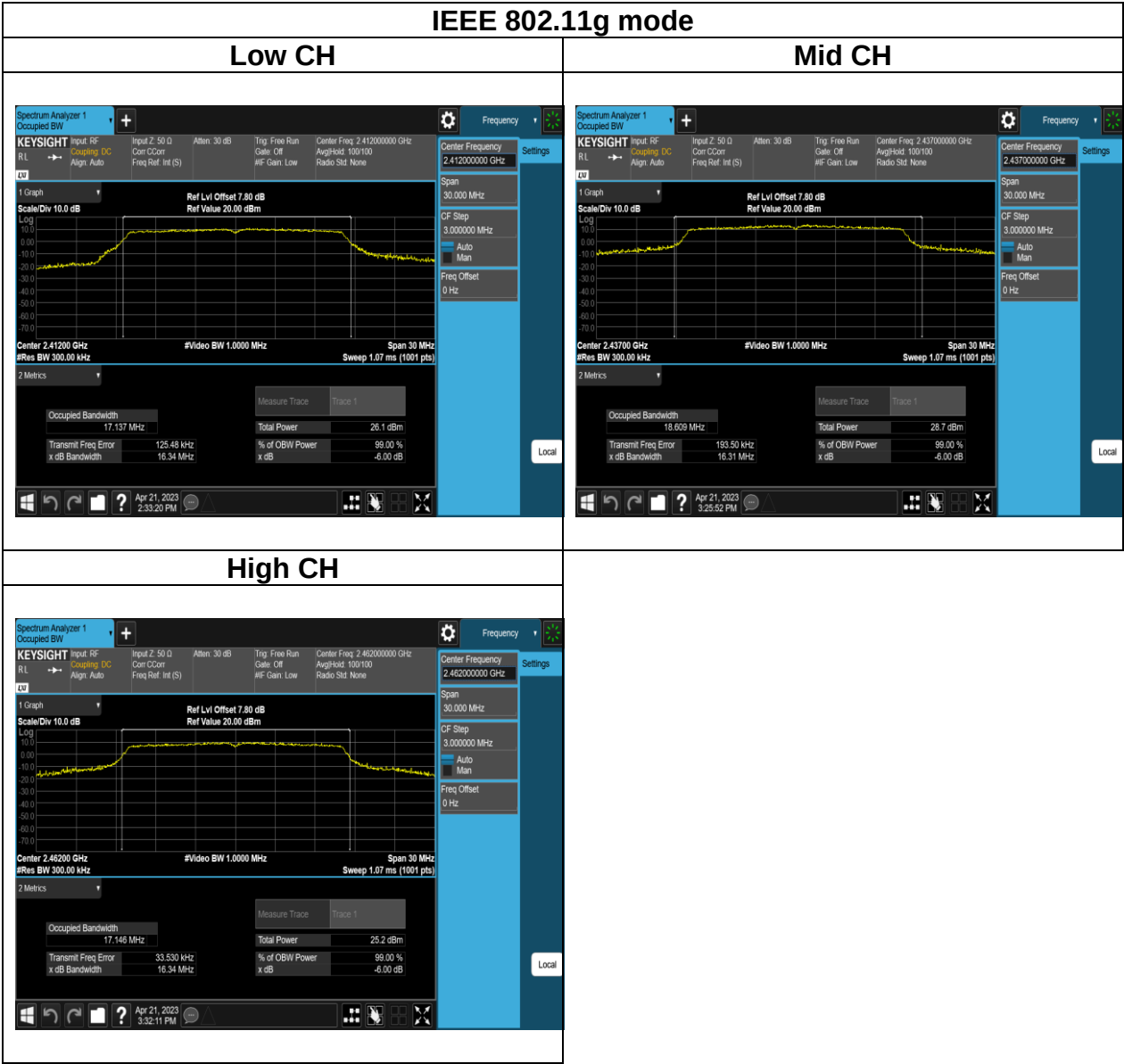
Test mode: IEEE 802.11ax HE20 mode / 2412-2462 MHz							
Channel	Frequency (MHz)	RU Config	Chain 0 OBW (99%) (MHz)	Chain 1 OBW (99%) (MHz)	Chain 0 6dB BW (kHz)	Chain 1 6dB BW (kHz)	6dB limit (kHz)
1	2412	full	18.915	18.911	18650.00	18640.00	≥500
6	2437	full	19.112	19.204	18400.00	18300.00	
11	2462	full	19.082	19.058	18310.00	18050.00	

Test mode: IEEE 802.11ax HE40 mode / 2422-2452 MHz							
Channel	Frequency (MHz)	RU Config	Chain 0 OBW (99%) (MHz)	Chain 1 OBW (99%) (MHz)	Chain 0 6dB BW (kHz)	Chain 1 6dB BW (kHz)	6dB limit (kHz)
3	2422	full	37.63	37.61	36370.00	35180.00	≥500
6	2437	full	37.648	37.635	36570.00	35180.00	
9	2452	full	37.67	37.687	36620.00	35700.00	

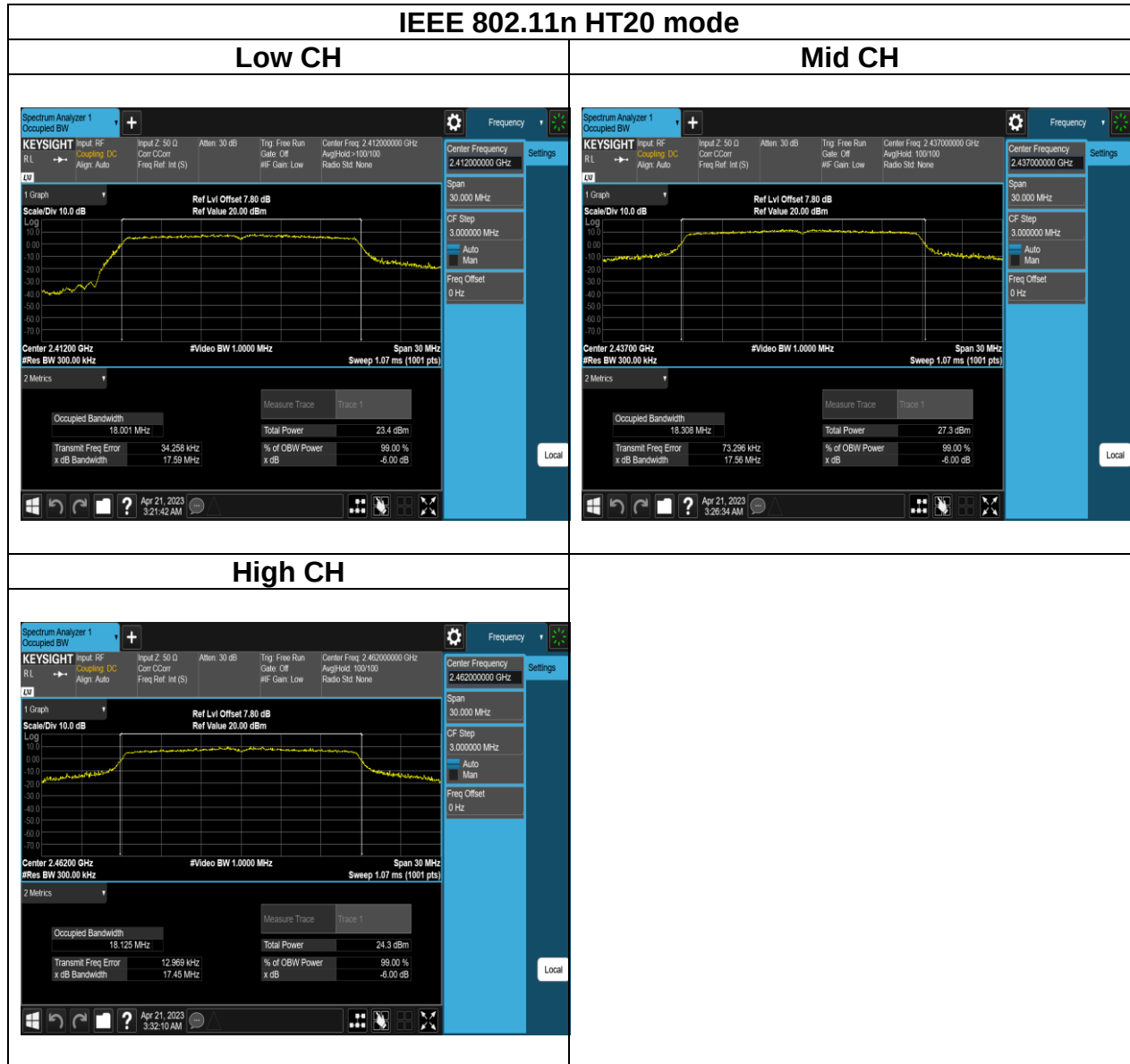
Test Data (BANDWIDTH 99%)

Non-Beamforming: Chain 0

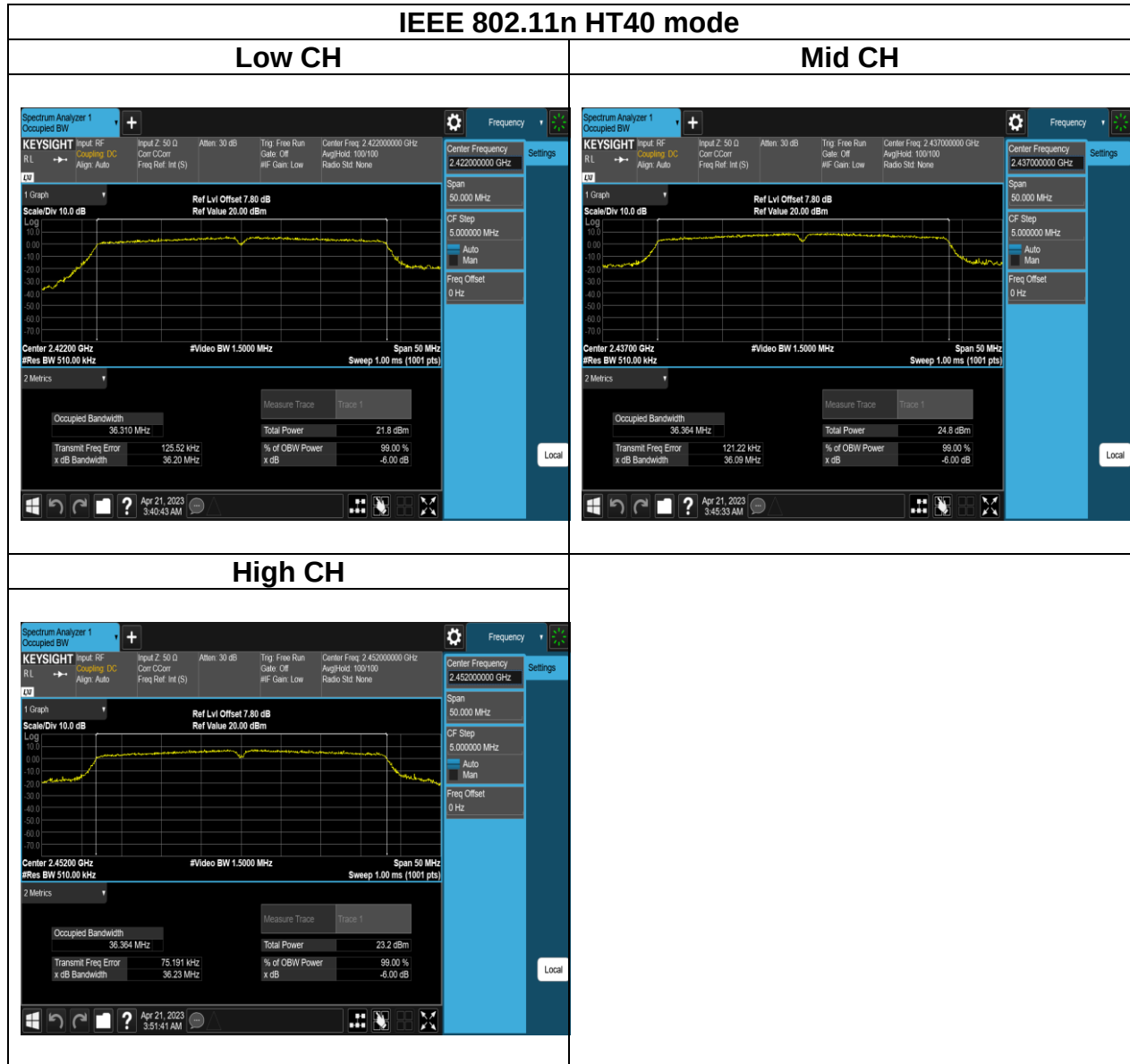




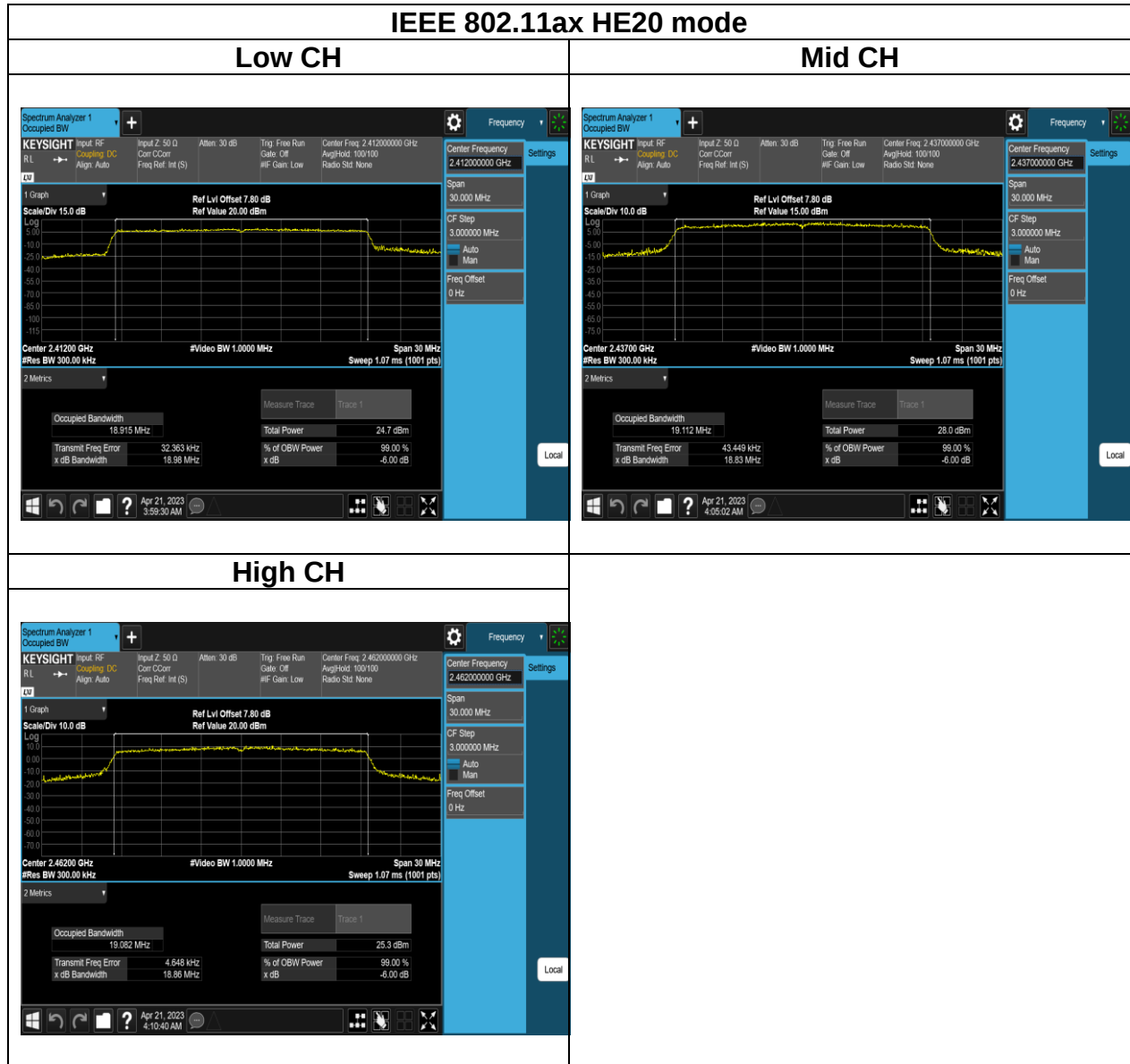
Report No.: TMWK2304001000KR



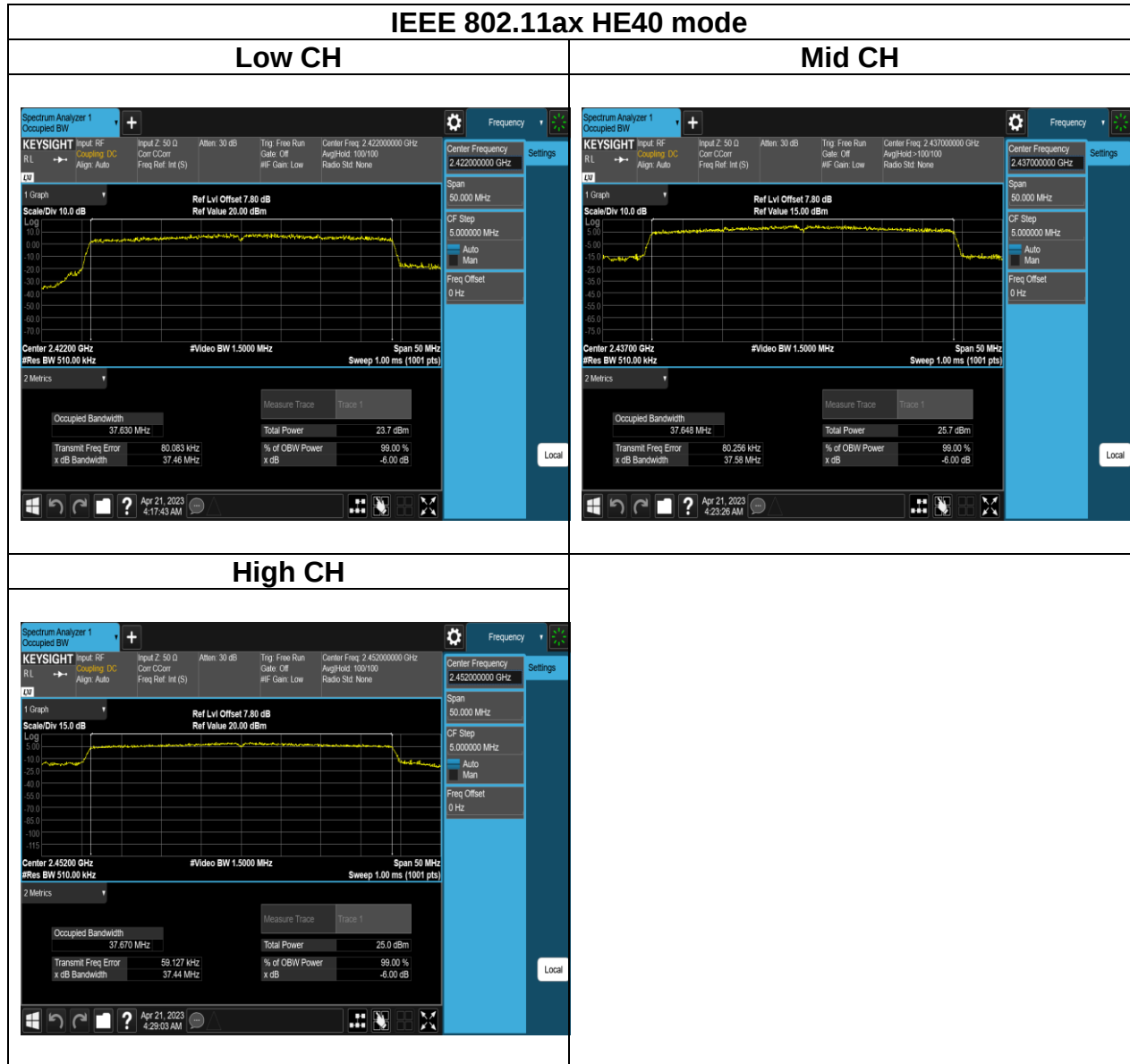
Report No.: TMWK2304001000KR



Report No.: TMWK2304001000KR



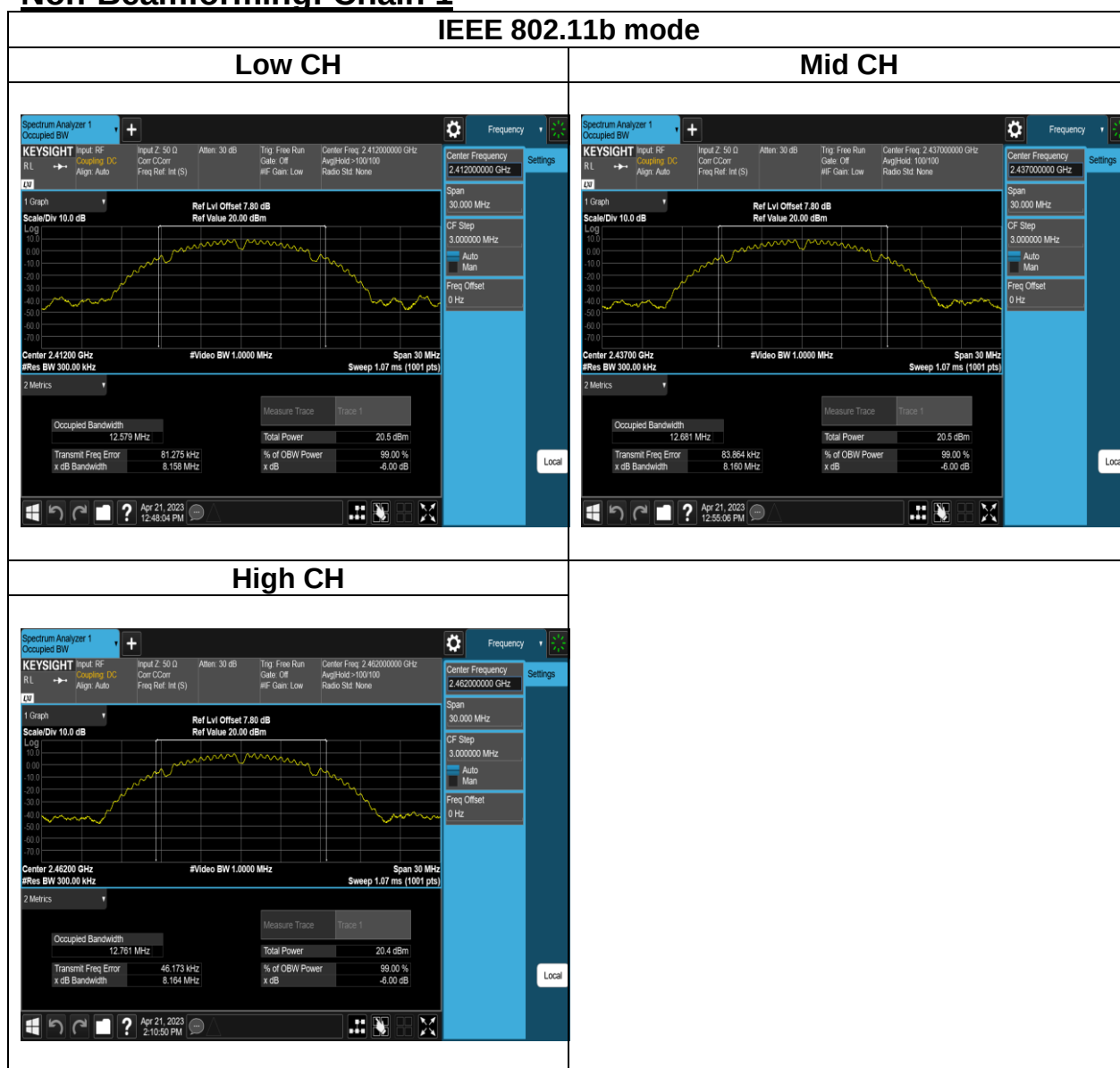
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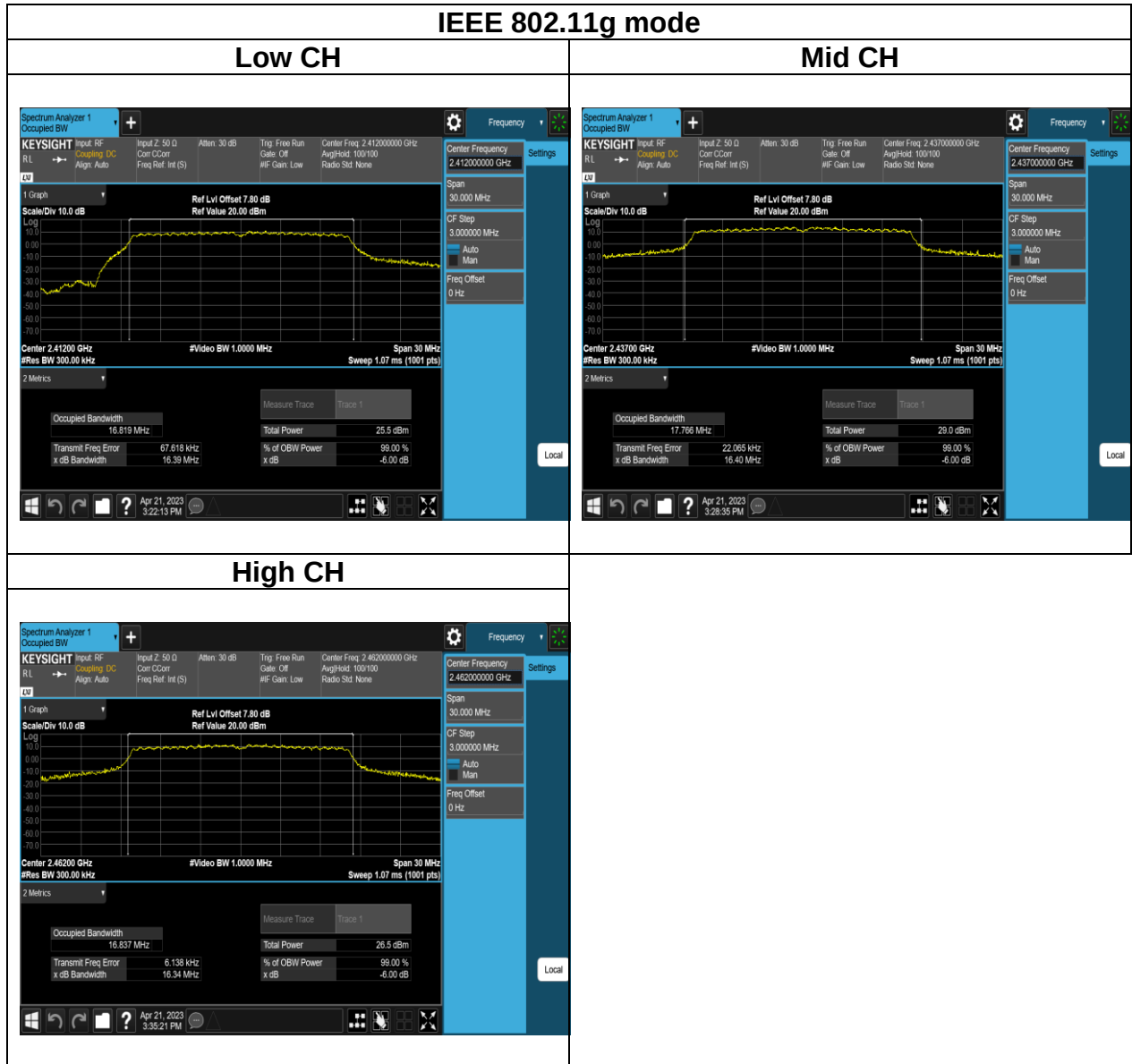
Report No.: TMWK2304001000KR

Test Data (BANDWIDTH 99%)

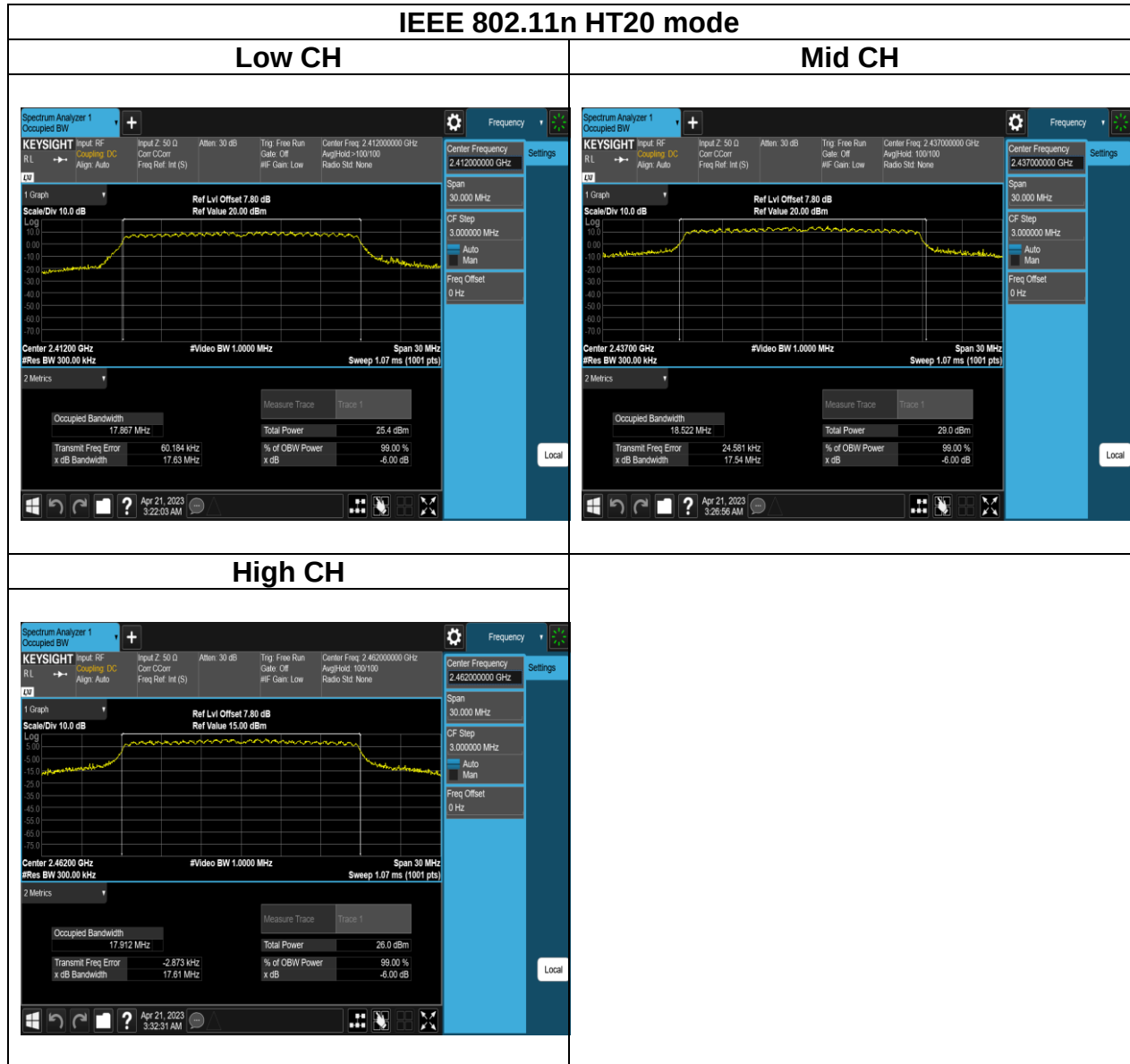
Non-Beamforming: Chain 1



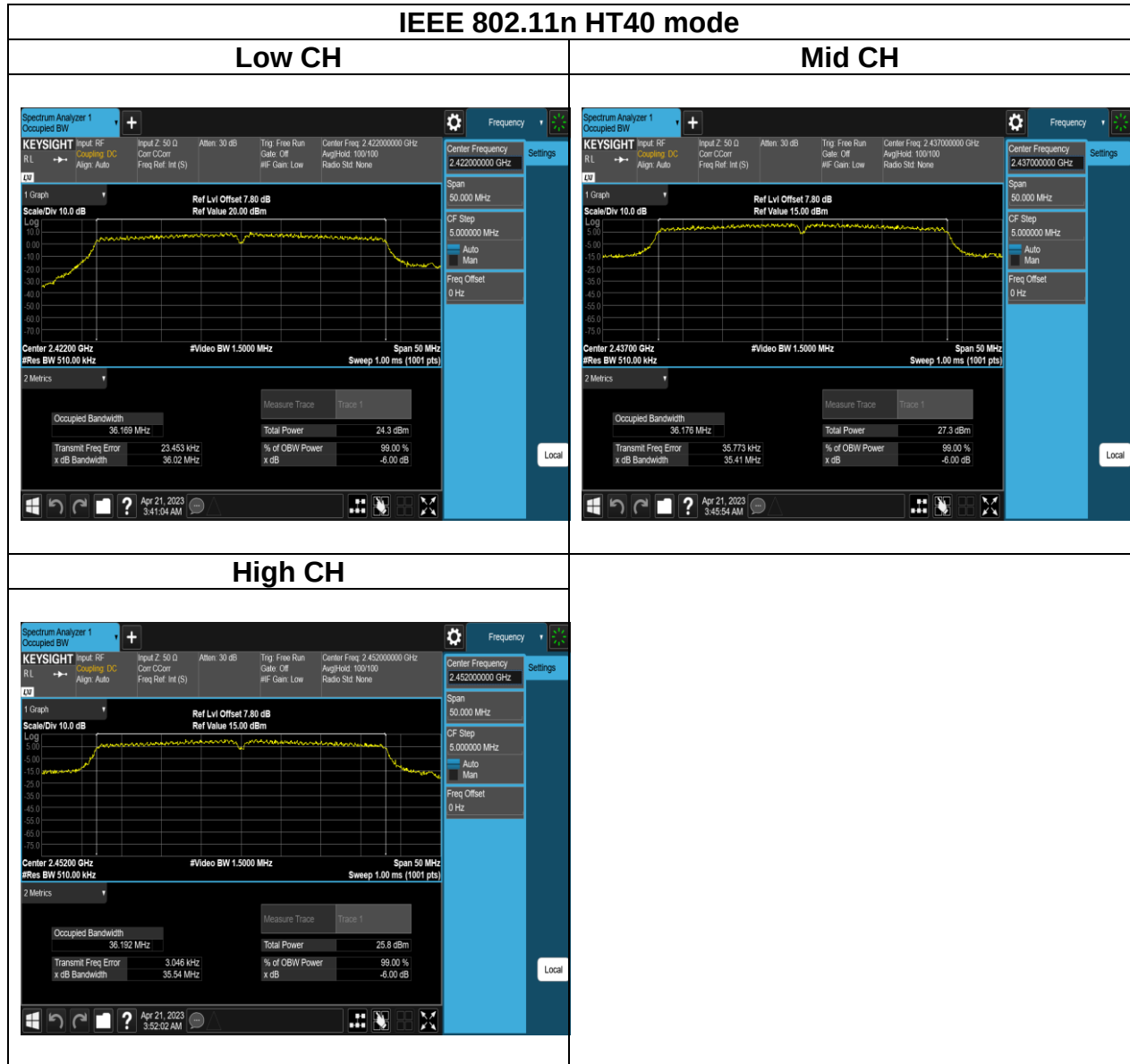
Report No.: TMWK2304001000KR



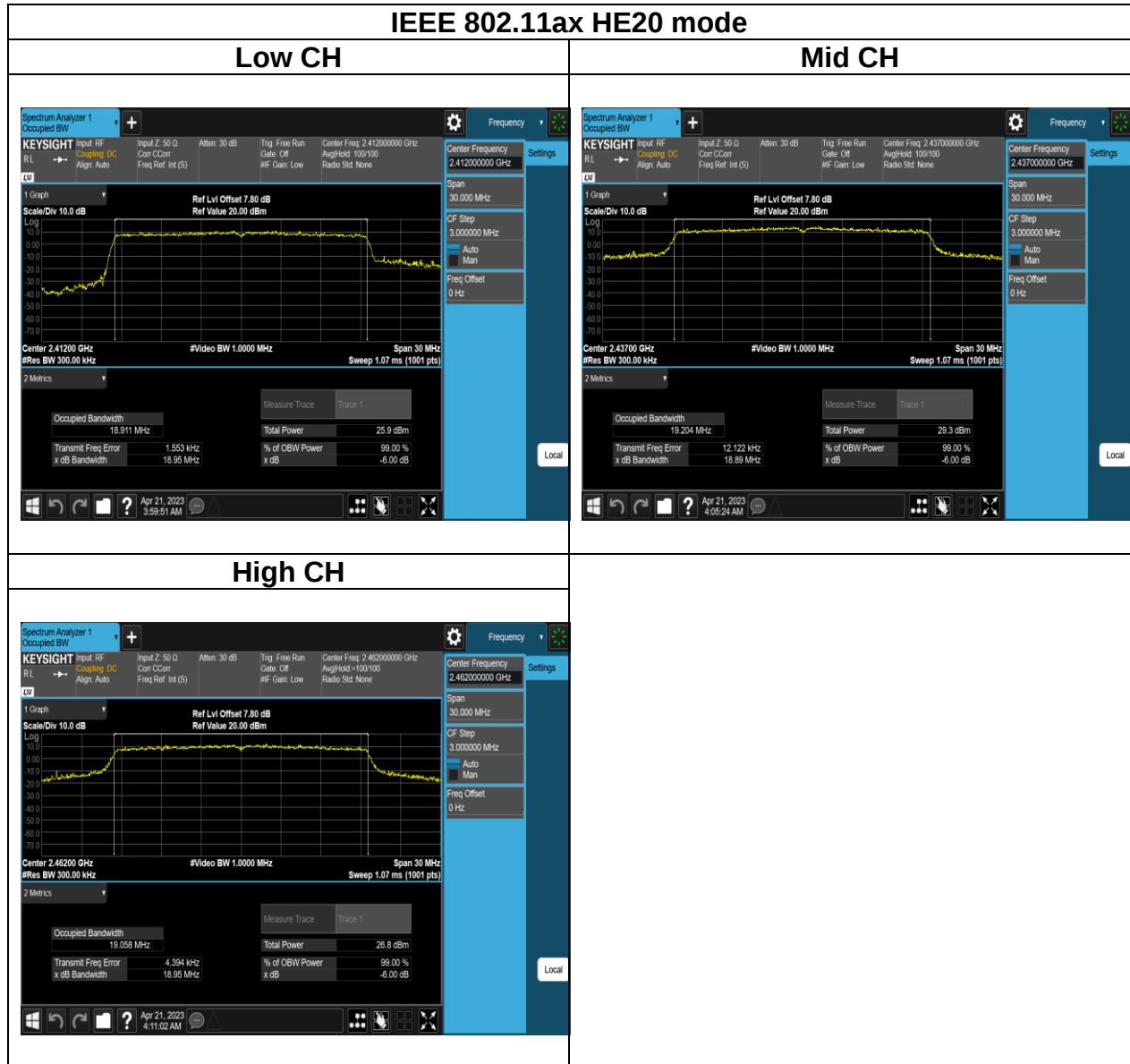
Report No.: TMWK2304001000KR



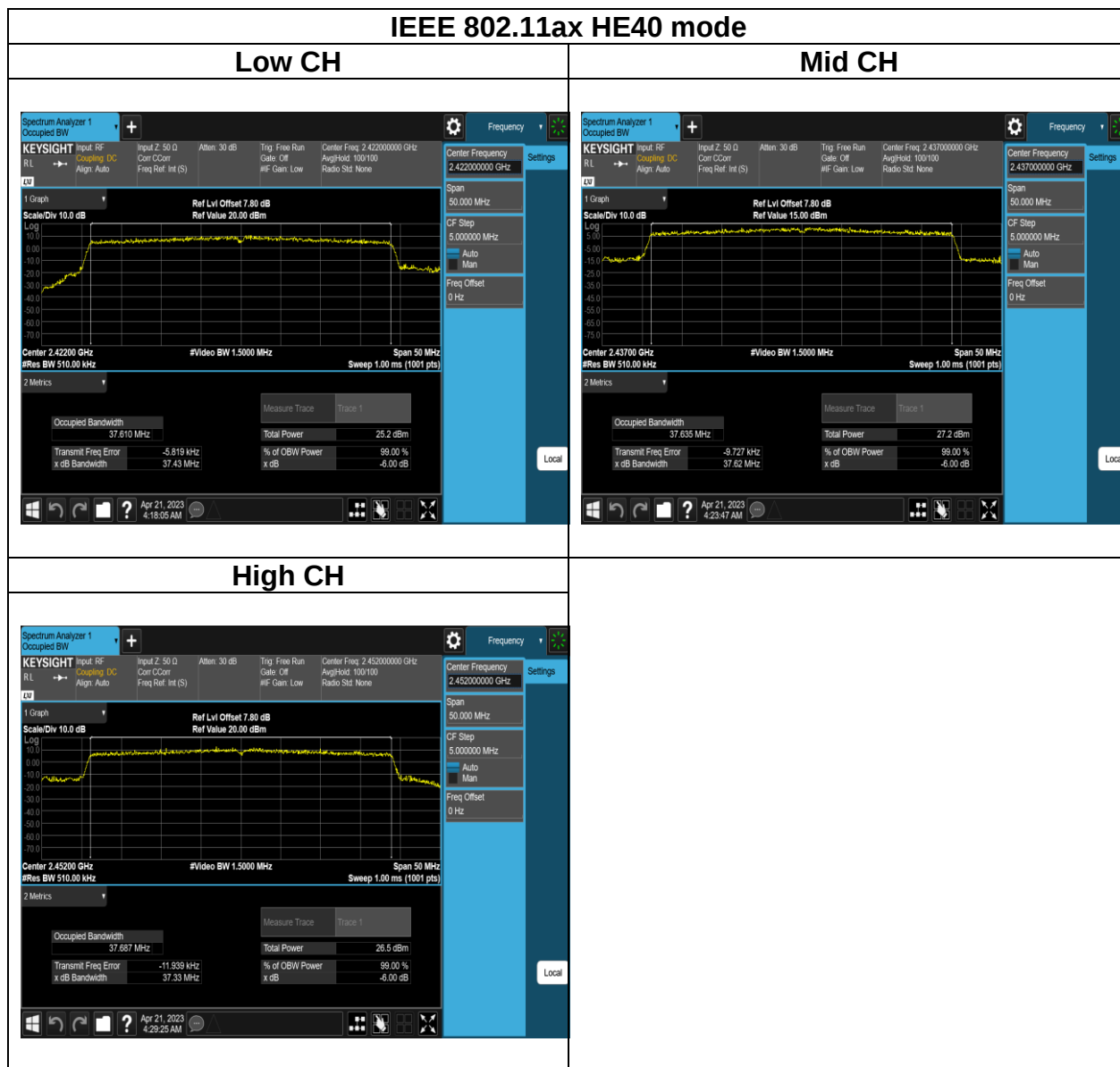
Report No.: TMWK2304001000KR



Report No.: TMWK2304001000KR



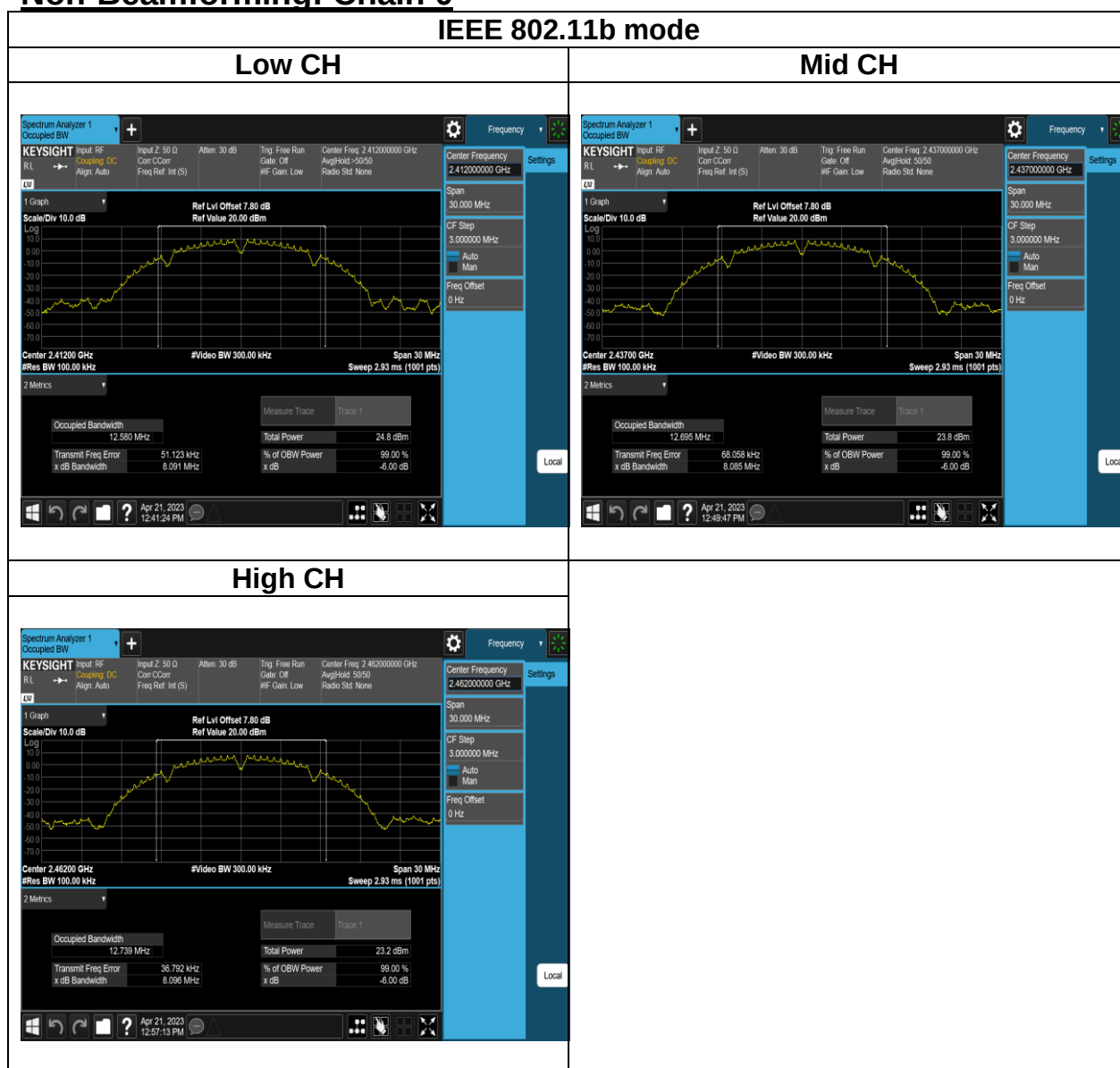
Report No.: TMWK2304001000KR



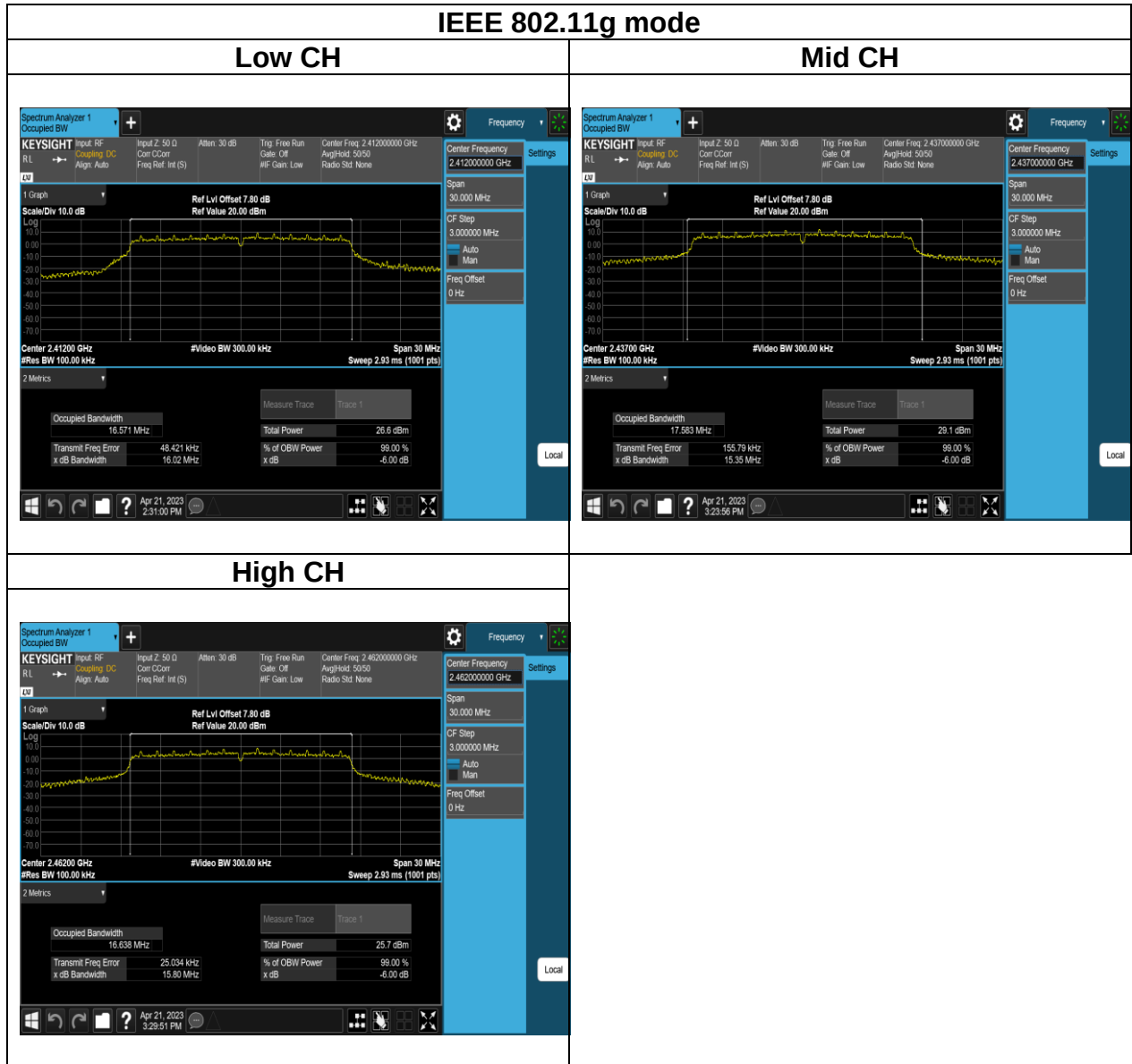
Report No.: TMWK2304001000KR

Test Data (6dB BANDWIDTH)

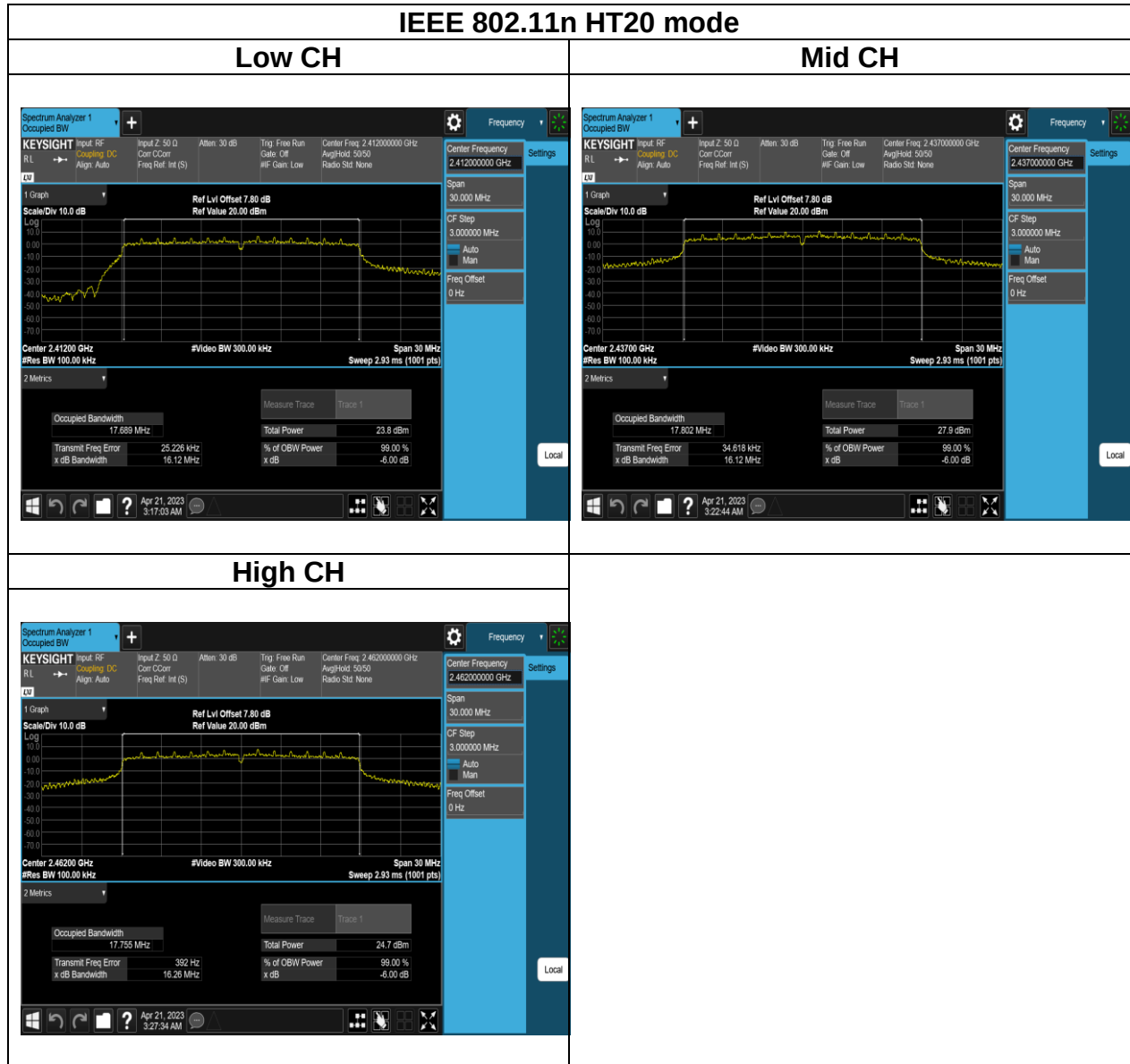
Non-Beamforming: Chain 0

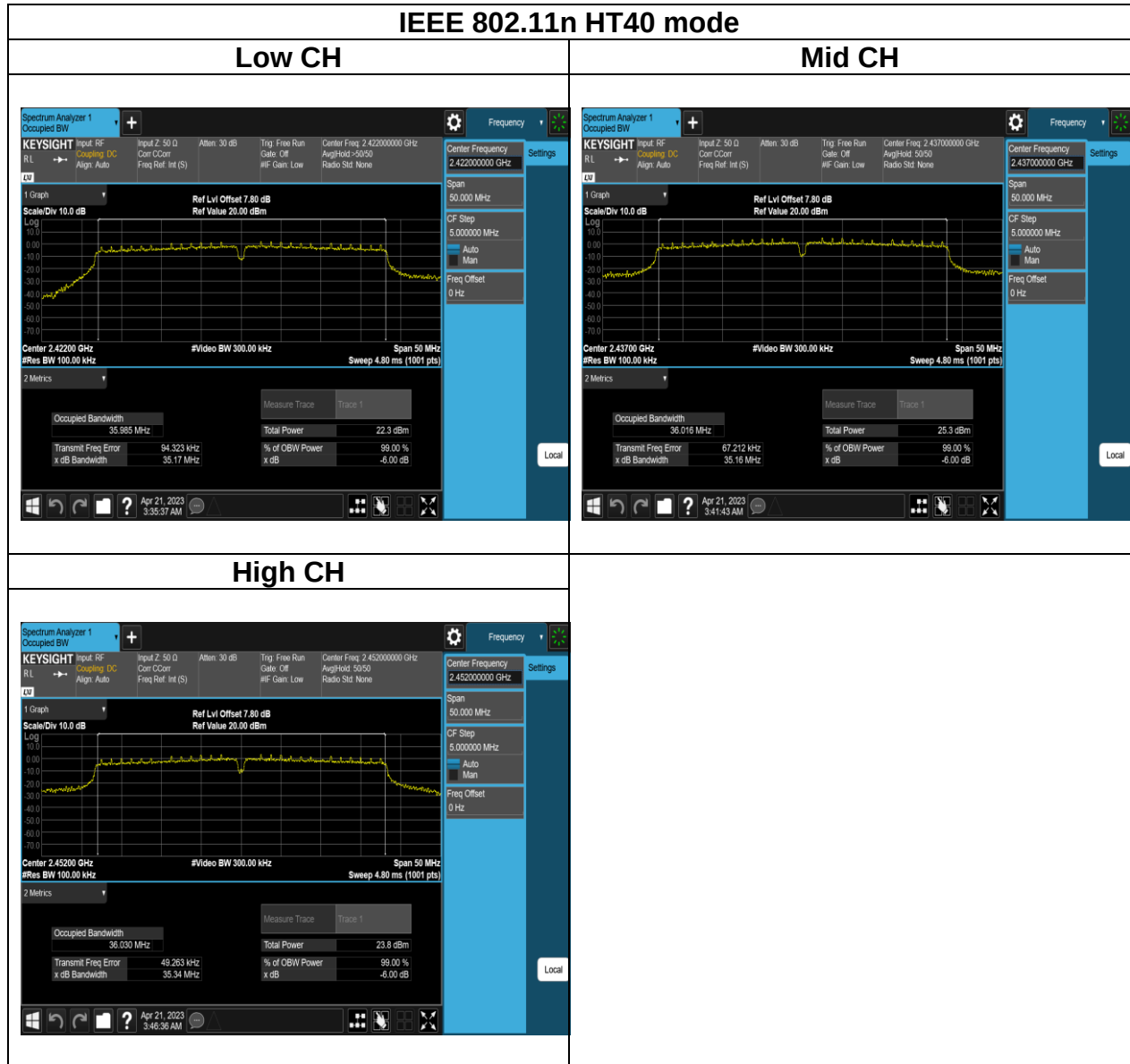


Report No.: TMWK2304001000KR

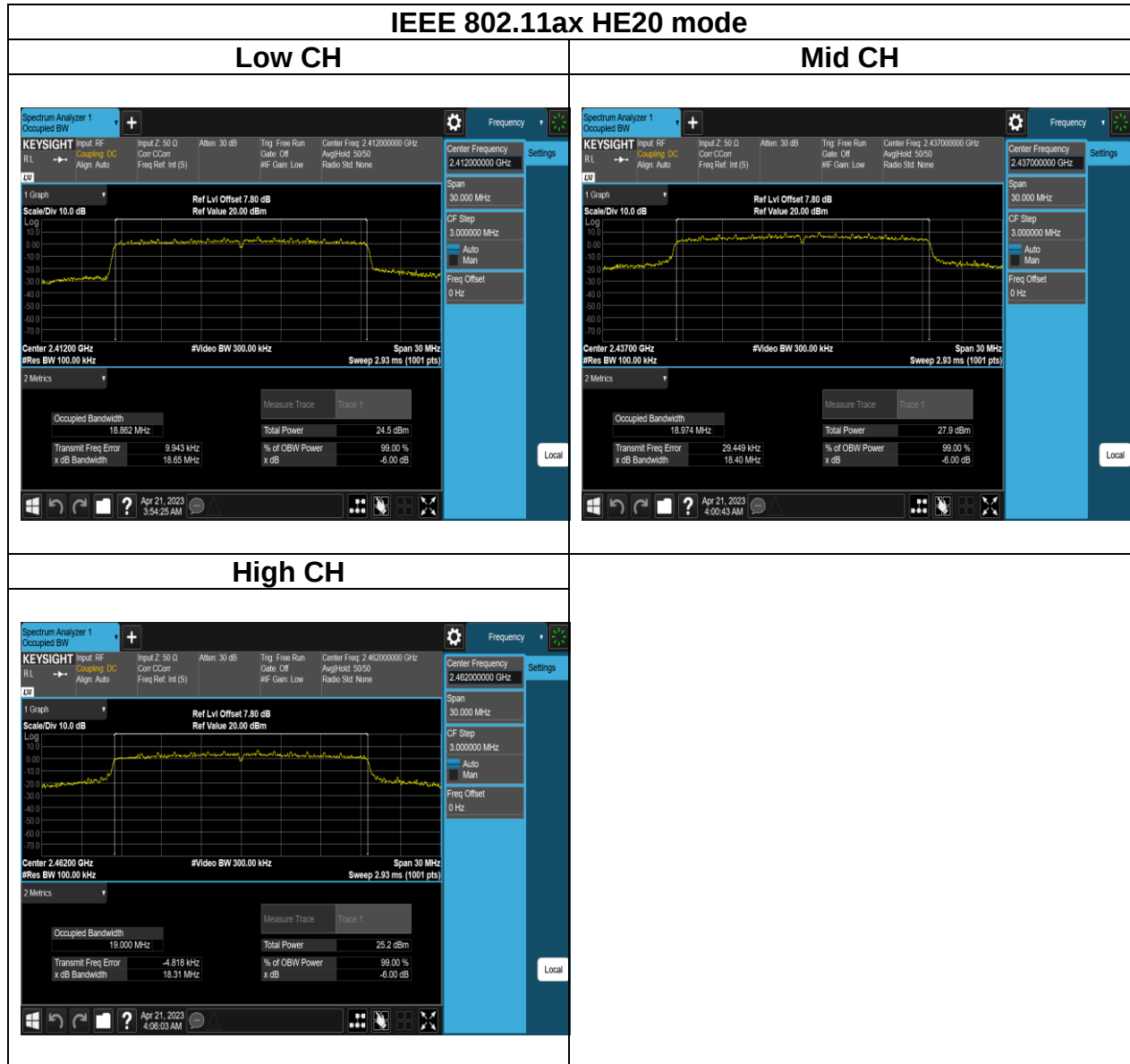


Report No.: TMWK2304001000KR

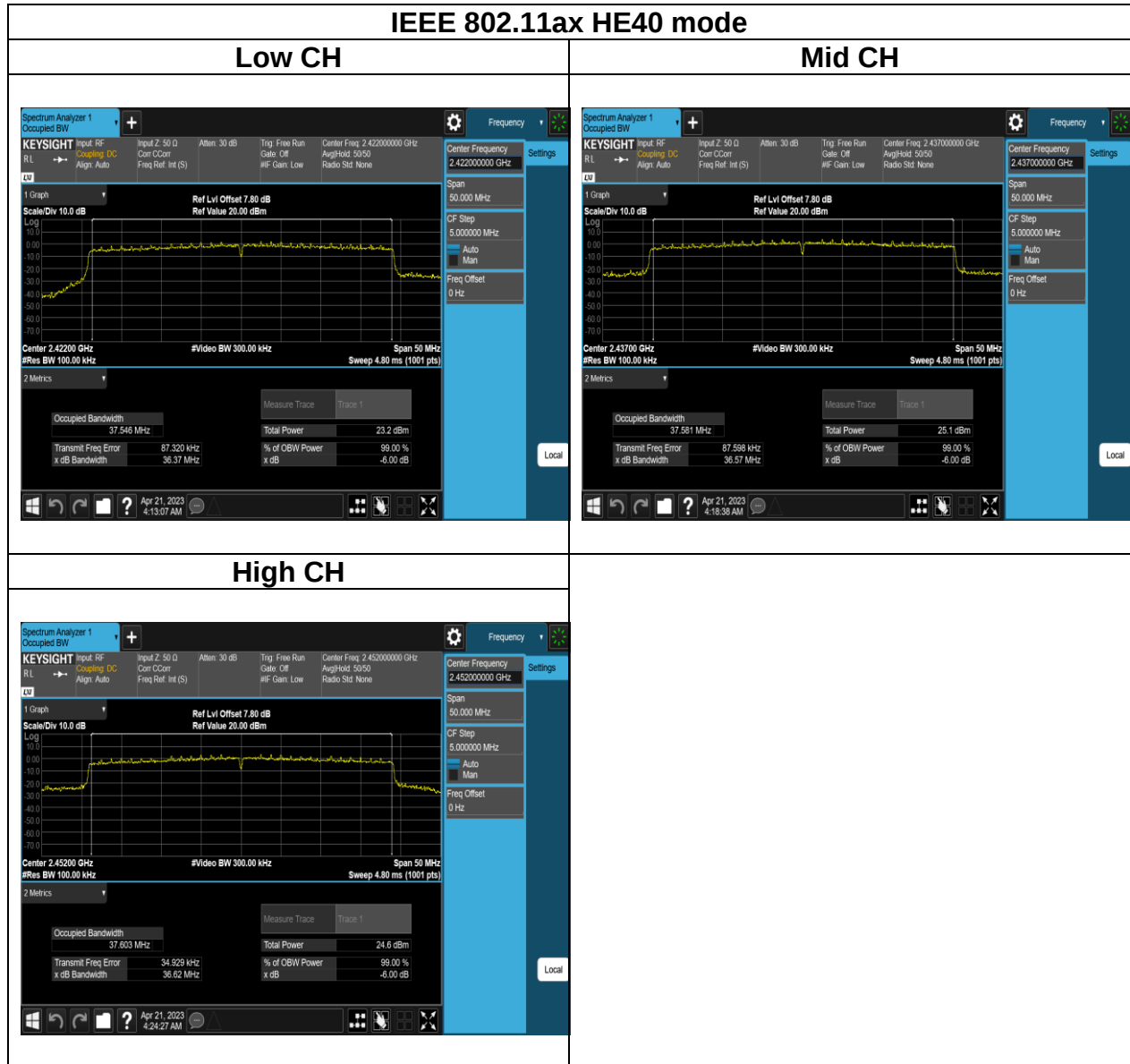




Report No.: TMWK2304001000KR



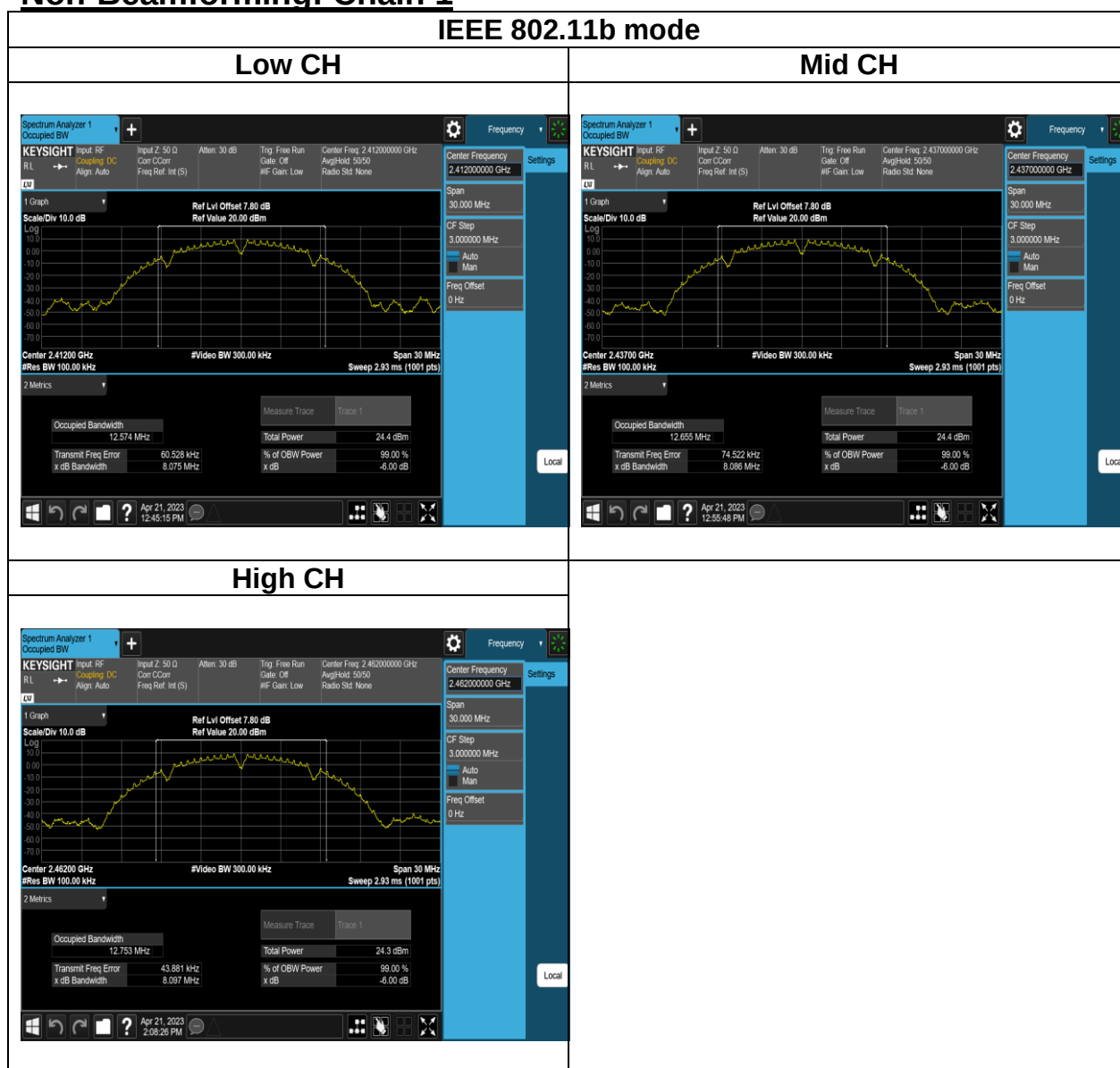
Report No.: TMWK2304001000KR



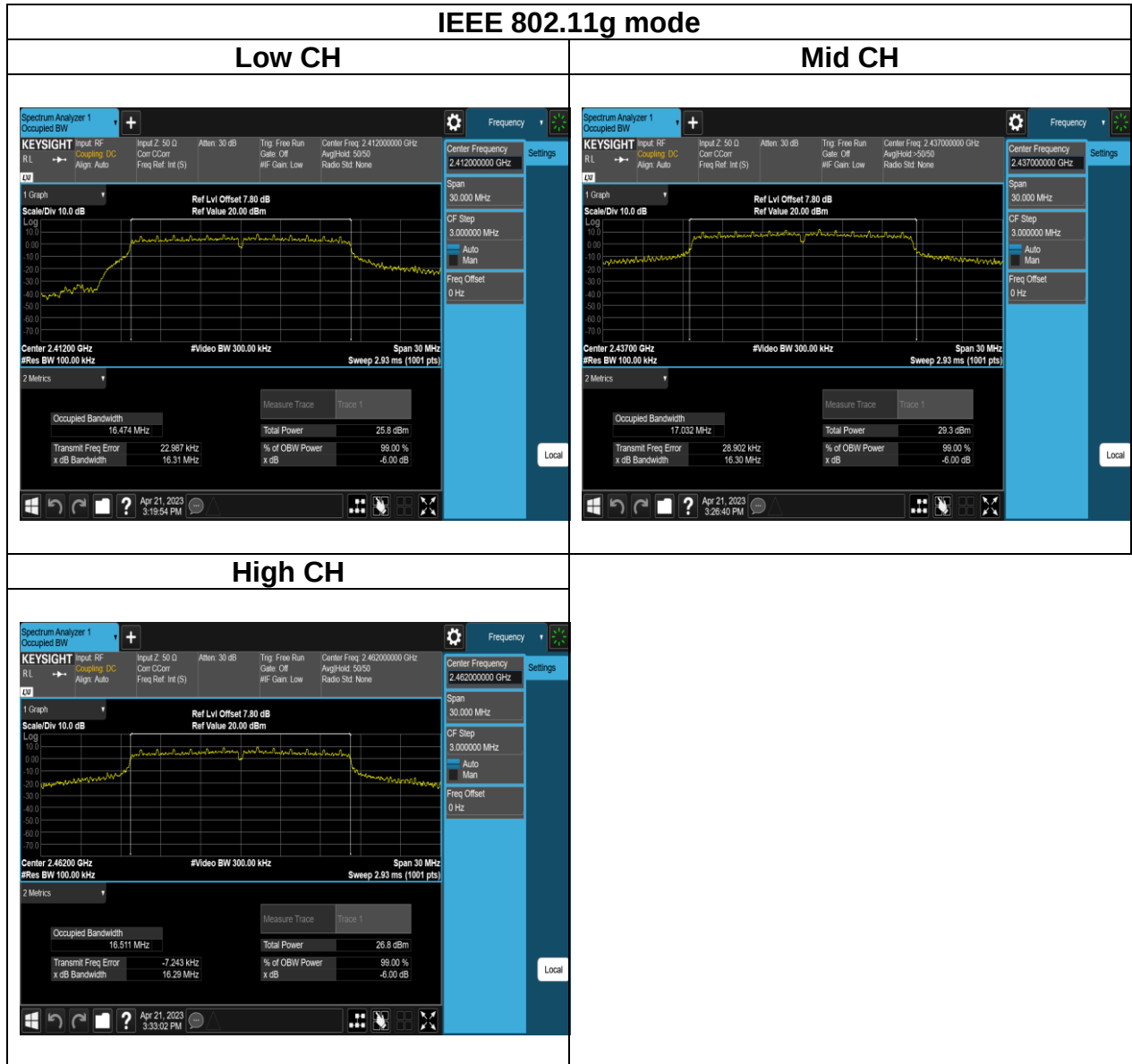
Report No.: TMWK2304001000KR

Test Data (6dB BANDWIDTH)

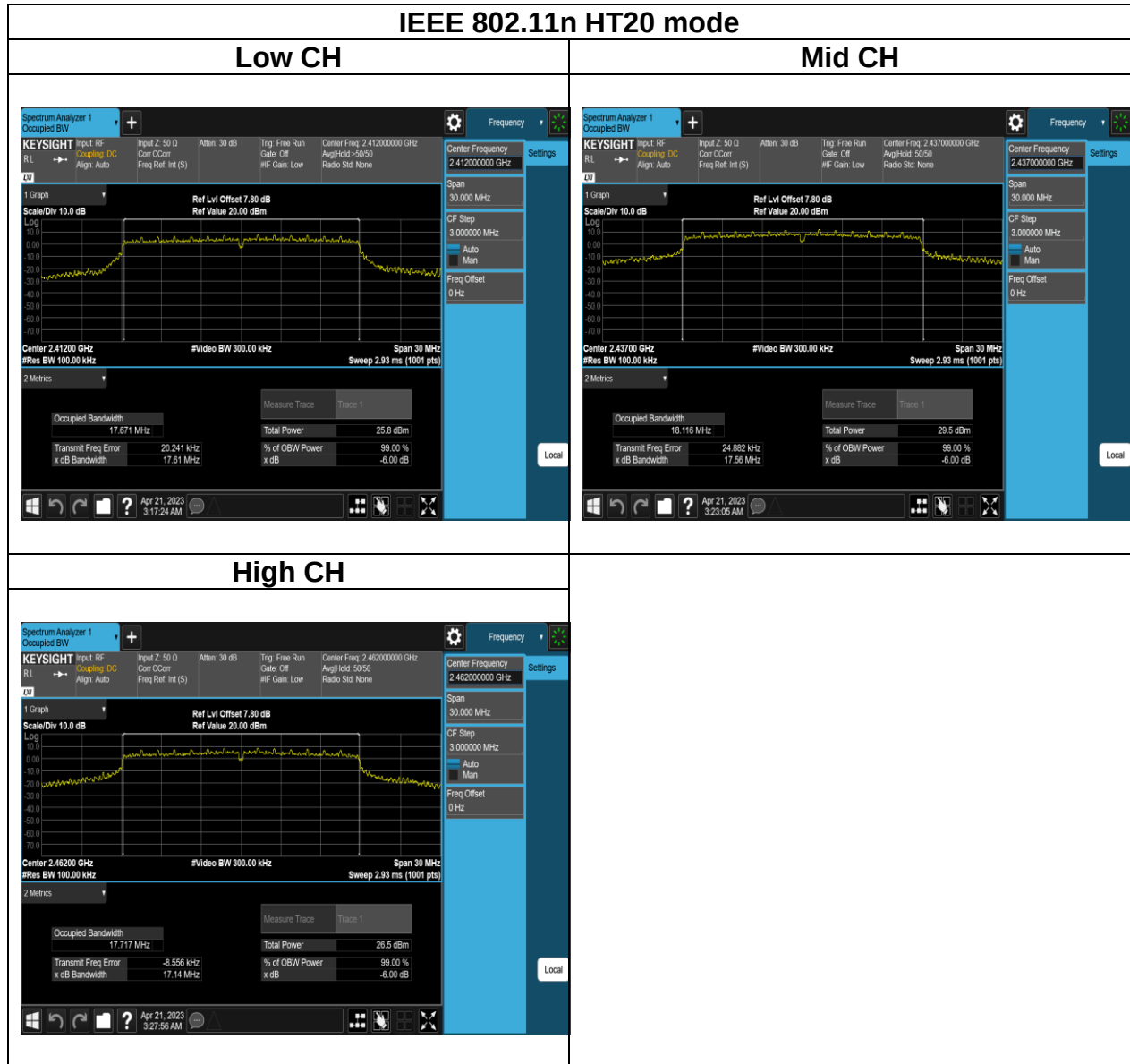
Non-Beamforming: Chain 1



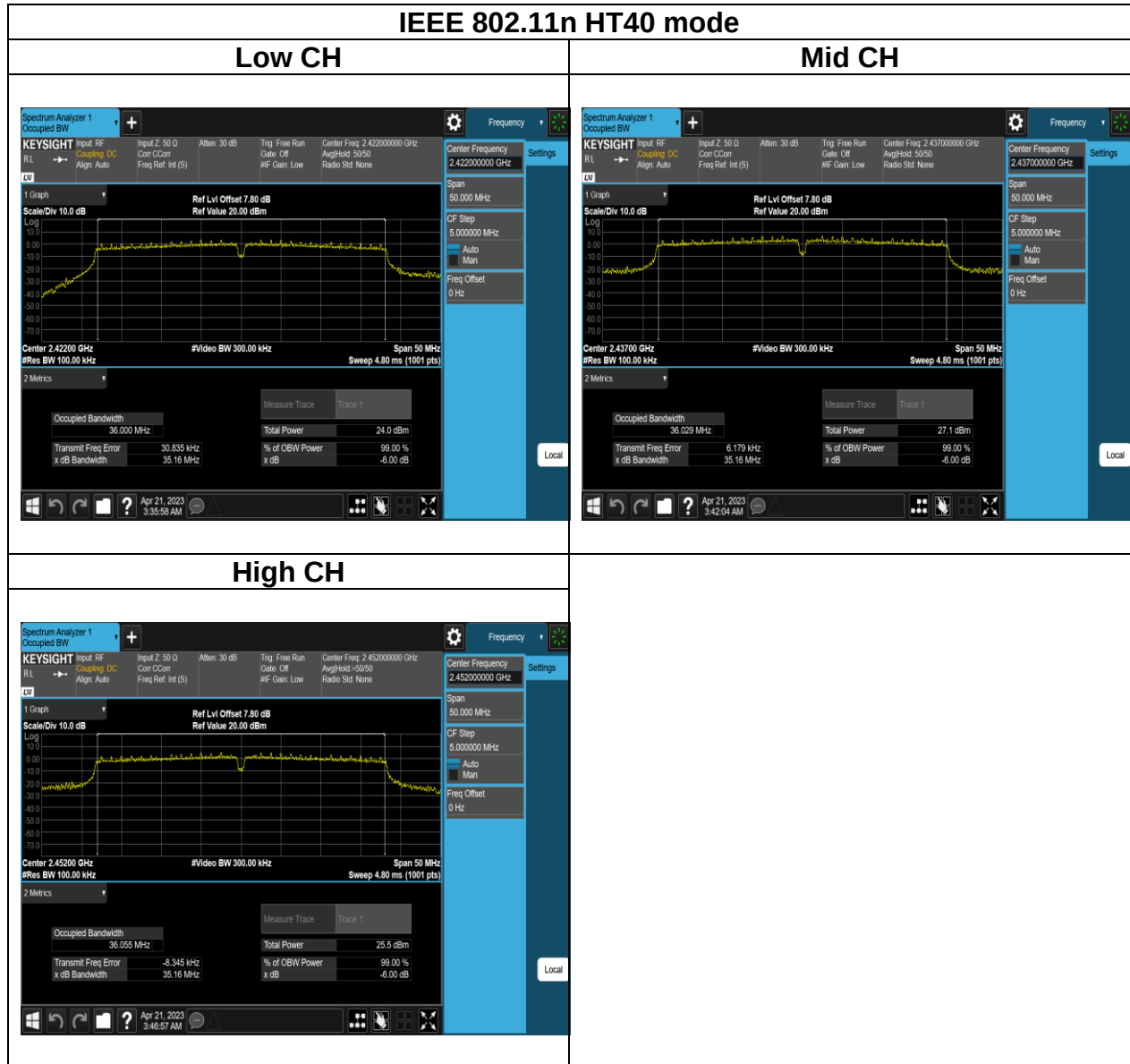
Report No.: TMWK2304001000KR



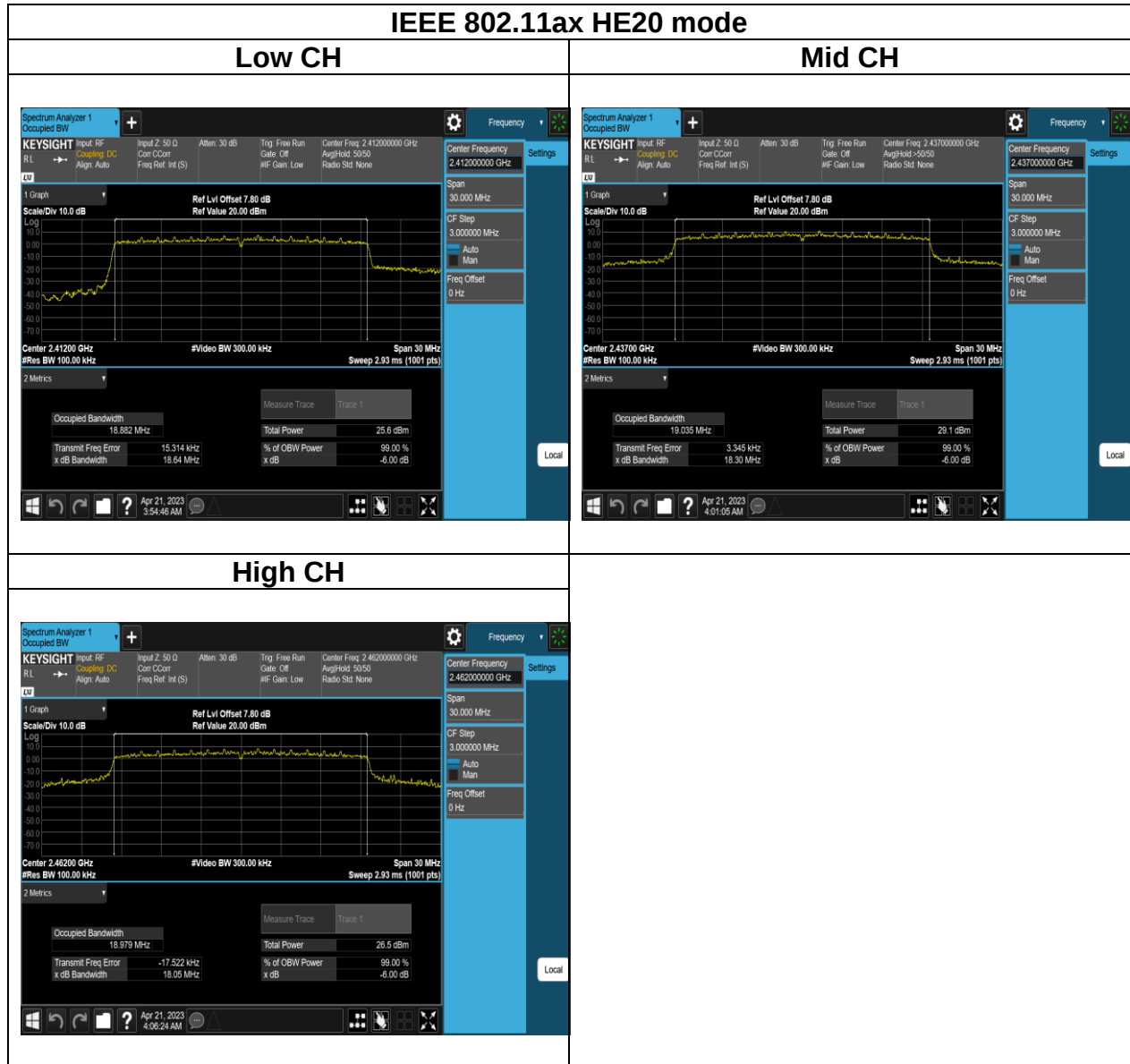
Report No.: TMWK2304001000KR



Report No.: TMWK2304001000KR



Report No.: TMWK2304001000KR



Report No.: TMWK2304001000KR

