

TEST REPORT

Report Number: 15532189-E1V2

Applicant : Google LLC
1600 Amphitheatre Parkway
Mountain View, CA 94043 U.S.A.

Model : GGX8B

FCC ID : A4RGGX8B

EUT Description : Phone

Test Standard(s) : FCC 47 CFR PART 15 SUBPART E

Date Of Issue:
2025-07-25

Prepared by:
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REPORT REVISION HISTORY

Rev.	Issue Date	Revisions	Revised By
V1	2025-06-10	Initial Issue	---
V2	2025-07-25	Revised Section 9.2 Limit info	Tina Chu

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: Google LLC
1600 Amphitheater pkwy
Mountain View, CA 94043 U.S.A.

EUT DESCRIPTION: Phone

MODEL: GGX8B

SERIAL NUMBER: 41121FDAS000BS, 41121FDAS00093, 41121FDAS000AZ,
41121FDAS00098

SAMPLE RECEIPT DATE: 2024-01-23, 2024-10-09

DATE TESTED: 2024-03-19 TO 2025-06-03

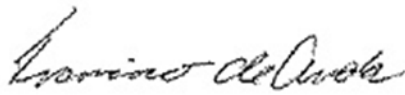
APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart E	Complies

UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise.

This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document.

Approved & Released For
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2. TEST RESULT SUMMARY

This report contains data provided by the customer which can impact the validity of results. UL Verification Services Inc. is only responsible for correctly integrating customer-provided data with measurements performed by UL Verification Services Inc.

Below is a list of the data provided by the customer:

- 1) Antenna gain and type (see section 6.5)

FCC Clause	Requirement	Result	Comment
See Comment	Duty Cycle	Reporting purposes only	ANSI C63.10 Section 12.2
See Comment	99% BW	Reporting purposes only	ANSI C63.10 Section 6.9.3
See Comment	26dB BW	Reporting purposes only	None.
§15.407 (a) (9)	Output Power e.i.r.p.	Complies	Very Low Power Device
§15.407 (a) (9)	PSD e.i.r.p	Complies	Very Low Power Device
§15.407 (b) (6)	Emissions outside 5.925-7.125 GHz band	Not performed	Refer to original test report 15107858-E12
§15.407 (b) (7)	Emissions within 5.925-7.125 GHz Band (Emissions Mask)	Complies	None
§15.407 (d) (10)	Transmit Power Control Mechanism	Complies	Very Low Power Device
§15.205	Unwanted emissions in restricted bands	Not performed	Refer to original test report 15107858-E12
§15.209	Radiated Spurious Emissions	Not performed	Refer to original test report 15107858-E12
§15.207	AC Mains Conducted Emissions	Not performed	Refer to original test report 15107858-E12

3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with:

- FCC 47 CFR Part 2
- FCC 47 CFR Part 15 Subpart E
- FCC KDB 662911 Measurement of Transmitters with Multiple Output, MIMO
- FCC KDB 789033 D02 UNII Test Procedures New Rules
- FCC KDB 987594 D01 U-NII 6GHz General Requirements
- FCC KDB 987594 D02 U-NII 6 GHz EMC Measurement
- ANSI C63.10-2013

4. FACILITIES AND ACCREDITATION

UL Verification Services Inc. is accredited by A2LA, Certificate Number 0751.05, for all testing performed within the scope of this report. Testing was performed at the locations noted below.

	Address	ISED CABID	ISED Company Number	FCC Registration
☒	Building 1: 47173 Benicia Street, Fremont, CA 94538, USA	US0104	2324A	550739
☐	Building 2: 47266 Benicia Street, Fremont, CA 94538, USA			
☐	Building 3: 843 Auburn Court, Fremont, CA 94538, USA			
☐	Building 4: 47658 Kato Rd, Fremont, CA 94538, USA			
☒	Building 5: 47670 Kato Rd, Fremont, CA 94538, USA			

5. DECISION RULES AND MEASUREMENT UNCERTAINTY

5.1. METROLOGICAL TRACEABILITY

All test and measuring equipment utilized to perform the tests documented in this report are calibrated on a regular basis, with a maximum time between calibrations of one year or the manufacturers' recommendation, whichever is less, and where applicable is traceable to recognized national standards.

5.2. DECISION RULES

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4:2012 Clause 8.2. (Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

5.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	U _{Lab}
Radio Frequency (Spectrum Analyzer)	141.16 Hz
Occupied Bandwidth	1.22%
RF Power Measurement Using Spectrum Analyzer	0.33dB
Conducted Antenna Port Emission Measurement	1.94 dB
Power Spectral Density	2.466 dB
Time Domain Measurements	3.39%
Temperature	0.57°C
Relative Humidity	3.39%
DC Supply Voltages	0.57%

Uncertainty figures are valid to a confidence level of 95%.

RADIATED EMISSIONS

Where relevant, the following sample calculation is provided:

$$\begin{aligned} \text{Field Strength (dBuV/m)} &= \text{Measured Voltage (dBuV)} + \text{Antenna Factor (dB/m)} + \text{Cable} \\ &\text{Loss (dB)} - \text{Preamp Gain (dB)} \\ 36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} &= 28.9 \text{ dBuV/m} \end{aligned}$$

MAINS CONDUCTED EMISSIONS

Where relevant, the following sample calculation is provided:

$$\begin{aligned} \text{Final Voltage (dBuV)} &= \text{Measured Voltage (dBuV)} + \text{Cable Loss (dB)} + \text{Limiter Factor (dB)} + \\ &\text{LISN Insertion Loss.} \\ 36.5 \text{ dBuV} + 0 \text{ dB} + 10.1 \text{ dB} + 0 \text{ dB} &= 46.6 \text{ dBuV} \end{aligned}$$

6. EQUIPMENT UNDER TEST

6.1. EUT DESCRIPTION

The EUT is a phone.

6.2. EUT DEVICE CLASS

EUT is of the following device class. This report is covering the Very Low Power only.

Equipment Class:	U-NII Bands of Operation			
	5	6	7	8
Dual Client (6CD) Low Power Client	☒	☒	☒	☒
Dual Client (6CD) Standard Client	☒	☐	☒	☐
Very Low Power (6VL)	☒	☒	☒	☒

6.3. DESCRIPTION OF CLASS II PERMISSIVE CHANGE

This Class II Permissive Change is to add Very Low Power (6VL) support to EUT.

6.4. MAXIMUM OUTPUT POWER

The transmitter has a maximum e.i.r.p. output power as follows:

Very Low Power

Band	Mode	Min Frequency (MHz)	Max Frequency (MHz)	LP Output Power EIRP (dBm)	LP Output Power EIRP (mW)
UNII_5	11a	5955	6415	1.30	1.35
	11be EHT20			1.48	1.41
	11be EHT40	5965	6405	4.02	2.52
	11be EHT80	5985	6385	7.37	5.46
	11be EHT160	6025	6345	10.94	12.42
UNII_6	11a	6435	6515	1.68	1.47
	11be EHT20			1.97	1.57
	11be EHT40	6445	6525	5.11	3.24
	11be EHT80	6465	6465	7.24	5.30
	11be EHT160	6505	6505	11.16	13.06
UNII_7	11a	6535	6875	1.14	1.30
	11be EHT20			1.47	1.40
	11be EHT40	6565	6845	4.68	2.94
	11be EHT80	6545	6865	6.54	4.51
	11be EHT160	6665	6825	10.63	11.56
UNII_8	11a	6895	7095	1.76	1.50
	11be EHT20			2.43	1.75
	11be EHT40	6885	7085	4.66	2.92
	11be EHT80	6945	7025	8.33	6.81
	11be EHT160	6985	6985	11.09	12.85

6.5. DESCRIPTION OF AVAILABLE ANTENNAS

The antenna(s) gain and type as provided by the manufacturer' are as follows:

The radio utilizes one IFA antenna (Ant3) and one ILA antenna (Ant4) for unlicensed radios.

Integrated Antenna?	☒ Yes	☐ No
---------------------	---	-----------------------------

Band	Antenna Peak Gain	
	Tx0 (Ant3) (dBi)	Tx1 (Ant4) (dBi)
UNII-5	-5.4	-2.1
UNII-6	-4.3	-7.3
UNII-7	-3.2	-4.7
UNII-8	-2.8	-4.5

6.6. WORST-CASE CONFIGURATION AND MODE

EUT supports 6G 802.11a, ax, be MIMO with MRU and channel puncturing features. The following are used for investigations.

MRU:

Bandwidth	RU Size
20MHz	52+26
	106+26

Puncturing:

Bandwidth	RU Size
80MHz	484+242
160MHz	996+484
	996+484+242

For 802.11ax and 802.11be investigation was performed on SU and Full tone, and it was determined that 802.11be Full tone mode is the worst case. The modulation and bandwidth of 802.11ax and 802.11be modes are similar at 20 MHz (40 MHz, 80 MHz, 160 MHz), and the target power of 802.11ax mode is equal to 802.11be mode, so 802.11be mode is performed in the test to represent worst-case reporting.

Investigation has been performed on power and PSD, partial RU/MRU/Punctured are lower than Full tone. 802.11be Full tone is the worse case and set for all testing with additional spot check on partial RU/MRU/ Punctured power/PSD/Emissions Mask combinations.

Note that 160MHz SU (2x996) is tested as worse case due to Full tone only supports 1x996, also, report shows Full tones and 26Tones plots as worse case in Emissions Mask section.

This report only covers conducted 26dB/99% bandwidth, power, PSD and emissions mask. Radiated emissions including bandedge, simultaneous, radiated spurious emissions test 9kHz to 40GHz, and power line conducted emission are covered by the original application (LP/SP) where the EUT set to transmit at the channel with highest output power as worst-case scenario to cover all LP/SP/VLP.

Worst-case data rates as provided by the client were:

- 802.11a mode: 6Mbps
- 802.11ax HE20 mode: MCS0
- 802.11ax HE40 mode: MCS0
- 802.11ax HE80 mode: MCS0
- 802.11ax HE160 mode: MCS0
- 802.11be EHT20 mode: MCS0
- 802.11be EHT40 mode: MCS0
- 802.11be EHT80 mode: MCS0
- 802.11be EHT160 mode: MCS0

Plots included in the report are representative of the method and settings parameters used for the test.

7. MEASUREMENT METHOD

On Time and Duty Cycle: KDB 789033 D02 v02r01, Section B.

26 dB Emission BW: ANSI C63.10-2013 Section 12.4.1

99% Occupied Bandwidth: KDB 789033 D02 v02r01, Section II-D

Conducted Output Power: KDB 789033 D02 v02r01, Section II E.2.d (Method SA-2).

Output Power (e.i.r.p), Conducted Power + Ant Gain= EIRP

Power Spectral Density(PSD): KDB 789033 D02 v02r01, Section F.3.a (Method SA-2).

Spurious emissions within 5.925-7.125 GHz Band(Emissions Mask): KDB 987594 D02 EMC Measurement Section II-J

8. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

CONDCUTED TEST EQUIPMENT LIST					
Description	Manufacturer	Model	ID Num	Cal Due	Last Cal
EMI TEST RECEIVER (Chamber J)	Rohde & Schwarz	ESW44	*171875	2024-05-31	2023-05-30
PXA Signal Analyzer	Keysight Technologies Inc	N9030B	*222073	2025-01-31	2024-01-30
Spectrum Analyzer, PXA, 3Hz to 44GHz	Keysight Technologies Inc	N9030A	*85201	2025-01-31	2024-01-30
10dB Fixed Attenuator, up to 26GHz	Pasternack Enterprises	PE7087-10	236189	Verified/characterized before use	
Conducted Switch Box	UL	CSB	*245774	2025-05-31	2024-05-16
PXA Signal Analyzer	Keysight Technologies Inc	N9030B	*222074	2025-01-31	2024-01-26
PXA Signal Analyzer	Keysight Technologies Inc	N9030A	85214	2026-01-31	2025-01-24
TPC TEST EQUIPMENT LIST					
Description	Manufacturer	Model	ID Num	Cal Due	Last Cal
Spectrum Analyzer, PXA, 3Hz to 44GHz	Keysight Technologies Inc	N9030A	80400	2026-01-31	2025-01-31
Step Attenuator 70dB	HP	8495B	2406A01354	N/A	N/A
Directional Coupler	Pasternack Enterprises	PE2204-6	246270	2026-05-31	2025-05-31
UL TEST SOFTWARE LIST					
Antenna Port Software	UL	UL RF	Ver 2022-08-16		

NOTES: * Testing is completed before equipment expiration date.

9. ANTENNA PORT TEST RESULTS

9.1. ON TIME AND DUTY CYCLE

LIMITS

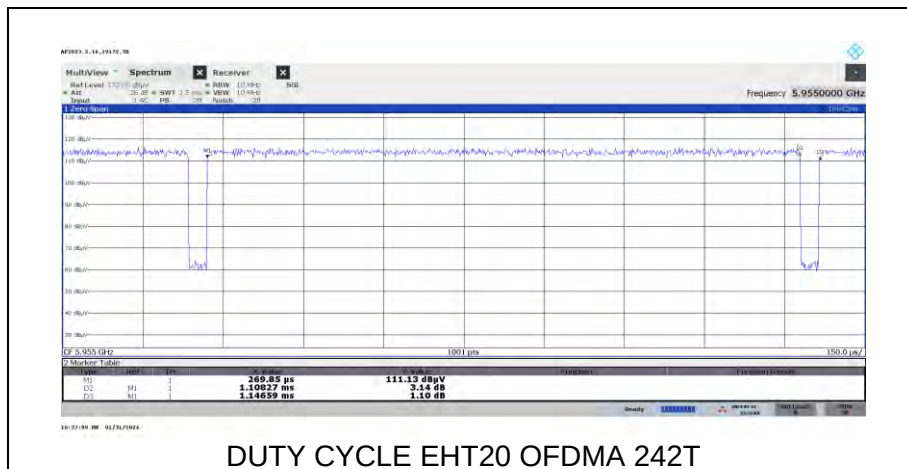
None; for reporting purposes only.

TEST PROCEDURE

KDB 789033 Zero-Span Spectrum Analyzer Method.

RESULTS

Mode	ON Time T (msec)	Period (msec)	Duty Cycle x (linear)	Duty Cycle (%)	DCCF (dB)	1/T Minimum VBW (kHz)
802.11a	4.06697	4.08887	0.99	99.46	0.00	0.01
802.11be OFDMA EHT20 242T	1.10827	1.14659	0.97	96.66	0.15	0.90
802.11be OFDMA EHT20 106T	1.30441	1.34172	0.97	97.22	0.12	0.77
802.11be OFDMA EHT20 52T	1.45704	1.49961	0.97	97.16	0.13	0.69
802.11be OFDMA EHT20 26T	1.61704	1.65685	0.98	97.60	0.11	0.62
802.11be OFDMA EHT20 52T + 26T	13.89	13.95	1.00	99.57	0.00	0.01
802.11be OFDMA EHT20 106T + 26T	1.996	2.034	0.98	98.13	0.00	0.01
802.11be OFDMA EHT40 484T	0.582479	0.620225	0.94	93.91	0.27	1.72
802.11be OFDMA EHT80 996T	0.314366	0.352423	0.89	89.20	0.50	3.18
802.11be OFDMA EHT80 484T + 242T Puncture 20MHz	1.003	1.027	0.98	97.66	0.10	1.00
802.11be OFDMA EHT160 SU	0.4072	0.4273	0.95	95.30	0.21	2.46
802.11be OFDMA EHT160 996T + 484T Puncture 40MHz	0.404	0.461	0.88	87.64	0.57	2.48
802.11be OFDMA EHT160 996T + 484T + 242T Puncture 20MHz	0.46	0.52	0.88	88.46	0.53	2.17



9.2. 26 dB and 99% BANDWIDTH

LIMITS

47 CFR 15.407(a)(11) The maximum transmitter channel bandwidth for U-NII devices in the 5.925–7.125 GHz band is 320 megahertz.

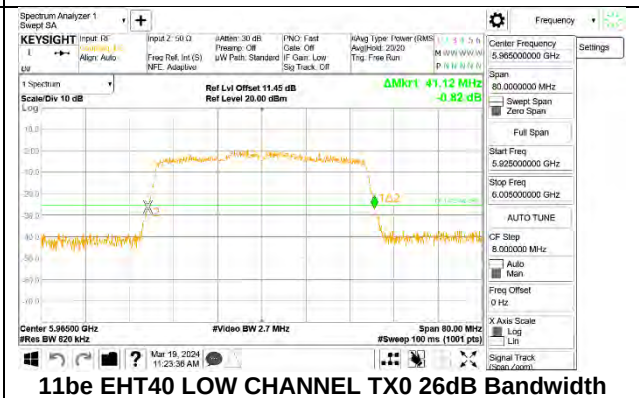
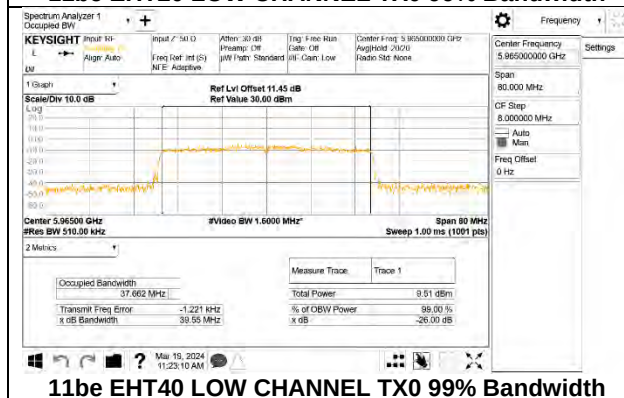
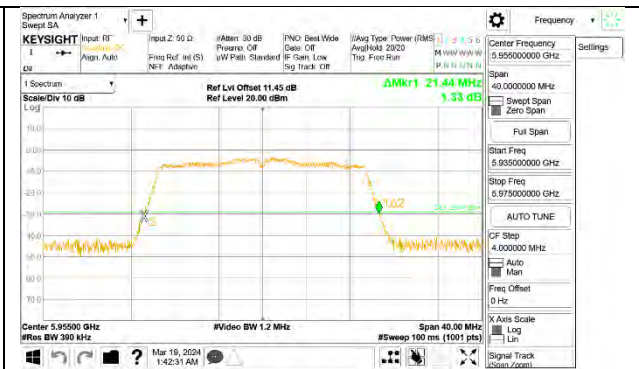
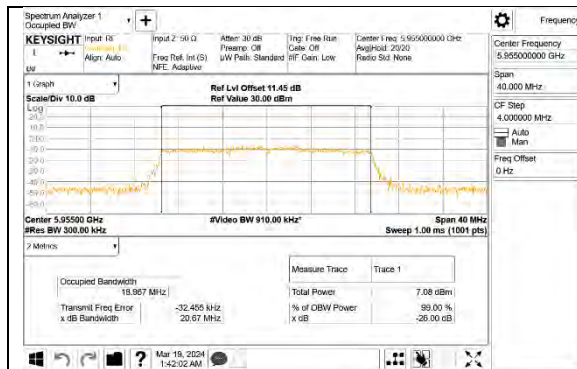
According to TCB workshop October 5, 2023, for channels with a nominal bandwidth less than 320MHz, (e.g., 20, 40, 80, and 160 MHz), compliance is demonstrated by way of the 26 dB EBW. For channels with a nominal bandwidth of 320 MHz, compliance is demonstrated by way of the 99% BW.

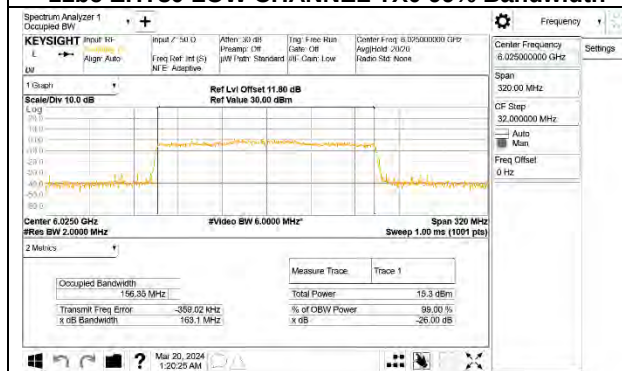
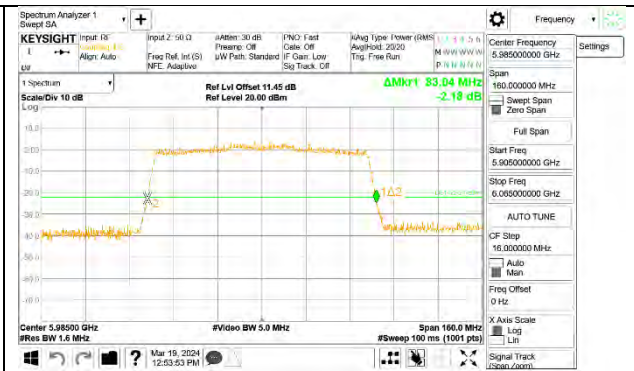
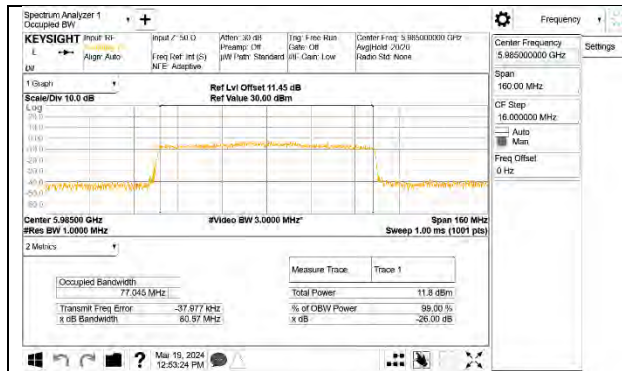
RESULTS

UNII_5 plots are representative of the method and settings parameters used for the test.

9.2.1. VERY LOW POWER UNII-5

Band (GHz)	No. of Tx	Mode	Channel	Freq (MHz)	Tones	RU Index	99% Bandwidth (MHz)		26dB Bandwidth (MHz)	
							Tx0	Tx1	Tx0	Tx1
NII_5	2	11a	1	5955			16.621	16.598	21.28	20.92
			45	6175			16.625	16.581	21.48	20.96
			93	6415			16.543	16.613	21.28	21.16
		11be EHT20	1	5955	242T	61	18.967	18.897	21.44	21.20
			45	6175			18.873	18.876	21.64	21.40
			93	6415			18.946	18.908	21.44	21.40
		11be EHT40	3	5965	484T	65	37.662	37.702	41.12	40.80
			43	6165			37.552	37.639	40.96	40.88
			91	6405			37.558	37.619	41.12	40.80
		11be EHT80	7	5985	996T	67	77.045	77.145	83.04	82.88
			39	6145			77.138	77.119	83.04	82.88
			87	6385			77.004	77.178	82.88	83.20
		11be EHT160	15	6025	SU		156.350	156.050	169.60	168.32
			47	6185			156.020	156.720	169.60	168.32
			79	6345			155.870	156.160	168.96	167.36





9.2.2. VERY LOW POWER UNII-6

Band (GHz)	No. of Tx	Mode	Channel	Freq (MHz)	Tones	RU Index	99% Bandwidth (MHz)		26dB Bandwidth (MHz)	
							Tx0	Tx1	Tx0	Tx1
NII_6	2	11a	97	6435			16.692	16.715	21.36	21.24
			105	6475			16.709	16.568	21.24	21.36
			113	6515			16.708	16.621	21.32	21.12
		11be EHT20	97	6435	242T	61	18.949	18.887	21.52	21.32
			105	6475			18.945	18.936	21.28	21.04
			113	6515			18.918	18.926	21.44	21.24
		11be EHT40	99	6445	484T	65	37.666	37.706	41.20	40.96
			115 (Straddle)	6525			37.660	37.669	41.28	40.88
		11be EHT80	103	6465	996T	65	77.011	76.992	82.72	82.56
		11be EHT160	111 (Straddle)	6505	SU		156.600	156.430	175.04	172.16

9.2.3. VERY LOW POWER UNII-7

Band (GHz)	No. of Tx	Mode	Channel	Freq (MHz)	Tones	RU Index	99% Bandwidth (MHz)		26dB Bandwidth (MHz)	
							Tx0	Tx1	Tx0	Tx1
NII_7	2	11a	117	6535			16.613	16.597	21.16	21.12
			153	6715			16.697	16.683	21.24	21.40
			185 (Straddle)	6875			16.835	16.736	21.20	21.04
		11be EHT20	117	6535	242T	61	18.933	18.991	21.56	21.20
			153	6715			18.897	18.944	21.52	21.32
			185 (Straddle)	6875			18.961	18.975	21.36	21.40
		11be EHT40	123	6565	484T	65	37.667	37.693	40.960	40.720
			147	6685			37.709	37.582	41.040	40.800
			179	6845			37.682	37.702	41.120	40.640
		11be EHT80	119 (Straddle)	6545	996T	65	77.105	77.057	82.72	82.72
			151	6705			77.200	77.115	82.88	82.88
			183 (Straddle)	6865			77.132	77.069	82.72	83.36
		11be EHT160	143	6665	SU	67	157.000	156.370	170.56	168.32
			175 (Straddle)	6825			156.610	156.920	171.52	179.52

9.2.4. VERY LOW POWER UNII-8

Band (GHz)	No. of Tx	Mode	Channel	Freq (MHz)	Tones	RU Index	99% Bandwidth (MHz)		26dB Bandwidth (MHz)	
							Tx0	Tx1	Tx0	Tx1
NII_8	2	11a	189	6895			16.826	16.692	21.24	21.16
			209	6995			16.742	16.687	21.32	21.24
			229	7095			16.809	16.711	21.20	21.04
		11be EHT20	189	6895	242T	61	18.954	18.957	21.40	21.40
			209	6995			18.969	18.925	21.48	21.32
			229	7095			18.950	18.937	21.48	21.28
		11be EHT40	187 (Straddle)	6885	484T	65	37.739	37.663	40.21	40.80
			203	6965			37.735	37.697	41.12	40.64
			227	7085			37.647	37.613	41.20	40.72
		11be EHT80	199	6945	996T	65	77.156	77.207	82.88	82.88
			215	7025			77.109	77.101	83.26	82.72
		11be EHT160	207	6985	SU		156.710	157.170	173.44	189.44

9.3. VERY LOW POWER OUTPUT POWER AND PSD

LIMITS

FCC §15.407

(a) (9) For very low power devices operating in the 5.925-7.125 GHz band, the maximum power spectral density must not exceed -5 dBm e.i.r.p in any 1-megahertz band and the maximum e.i.r.p must not exceed 14 dBm.

DIRECTIONAL ANTENNA GAIN

For 1 TX:

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

For 2 TX:

CDD MIMO Tx chains used uncorrelated gain for EIRP calculation and correlated gain for PSD EIRP calculation; The directional gains are as follows:

Band	Frequency Range	Antenna Gain Peak Gain		Uncorrelated Chains Directional Gain	Correlated Chains Directional Gain
		Tx0	Tx1		
	(MHz)	(dBi)	(dBi)	(dBi)	(dBi)
NII_5	5925 - 6425	-5.40	-2.10	-3.44	-0.58
NII_6	6425 - 6525	-4.30	-7.30	-5.55	-2.66
NII_7	6525 - 6875	-3.20	-4.70	-3.89	-0.91
NII_8	6875 - 7125	-2.80	-4.50	-3.57	-0.60

Directional Gain Calculation:

ANSI C63.10-2013 section 14.4.3

Uncorrelated directional gain= $10 \cdot \log((10^{Tx0/10} + 10^{Tx1/10})/2)$

Correlated directional Gain= $10 \cdot \log(((10^{Tx0/20} + 10^{Tx1/20}))^2/2)$

Sample Calculation at UNII-5 Band:

Tx0=-5.4dBi, Tx1=-2.1dBi

Uncorrelated Antenna gain= $10 \log[(10^{(-5.4/10)} + 10^{(-2.1/10)})/2] = -3.44$ dBi

Correlated Antenna gain= $10 \log[(10^{(-5.4/20)} + 10^{(-2.1/20)})^2/2] = -0.58$ dBi

POWER CALCULATION:

P= measured conducted avg power (including cable loss + 10dB attenuator)

DCCF= duty cycle correction factor in dB

2Tx Total Corrected EIRP Power with DCCF (dBm)=

$10\log[10^{((P1+DCCF)/10)} + 10^{((P2+DCCF)/10)}] + (\text{uncorrelated directional gain})$

Sample Calculation VLP UNII-5 EHT20 242T MIMO:

2Tx Total Corrected MIMO Conducted Avg EIRP Power (dBm)=

$10\log[10^{((1.23+0.15)/10)} + 10^{((1.76+0.15)/10)}] + (-3.44) = 1.22 \text{ dBm}$

PSD CALCULATION:

PSD= measured PSD (including cable loss + 10dB attenuator)

DCCF= duty cycle correction factor in dB

2Tx Corrected EIRP PSD with DCCF (dBm/1MHz)=

$10\log[10^{((PSD1+DCCF)/10)} + 10^{((PSD2+DCCF)/10)}] + (\text{correlated directional gain})$

Sample Calculation VLP UNII-5 EHT20 242T MIMO:

2Tx Corrected EIRP PSD with DCCF (dBm/1MHz)=

$10\log[10^{((-7.729+0.15)/10)} + 10^{((-7.837+0.15)/10)}] + (-0.58) = -5.21 \text{ dBm/MHz}$

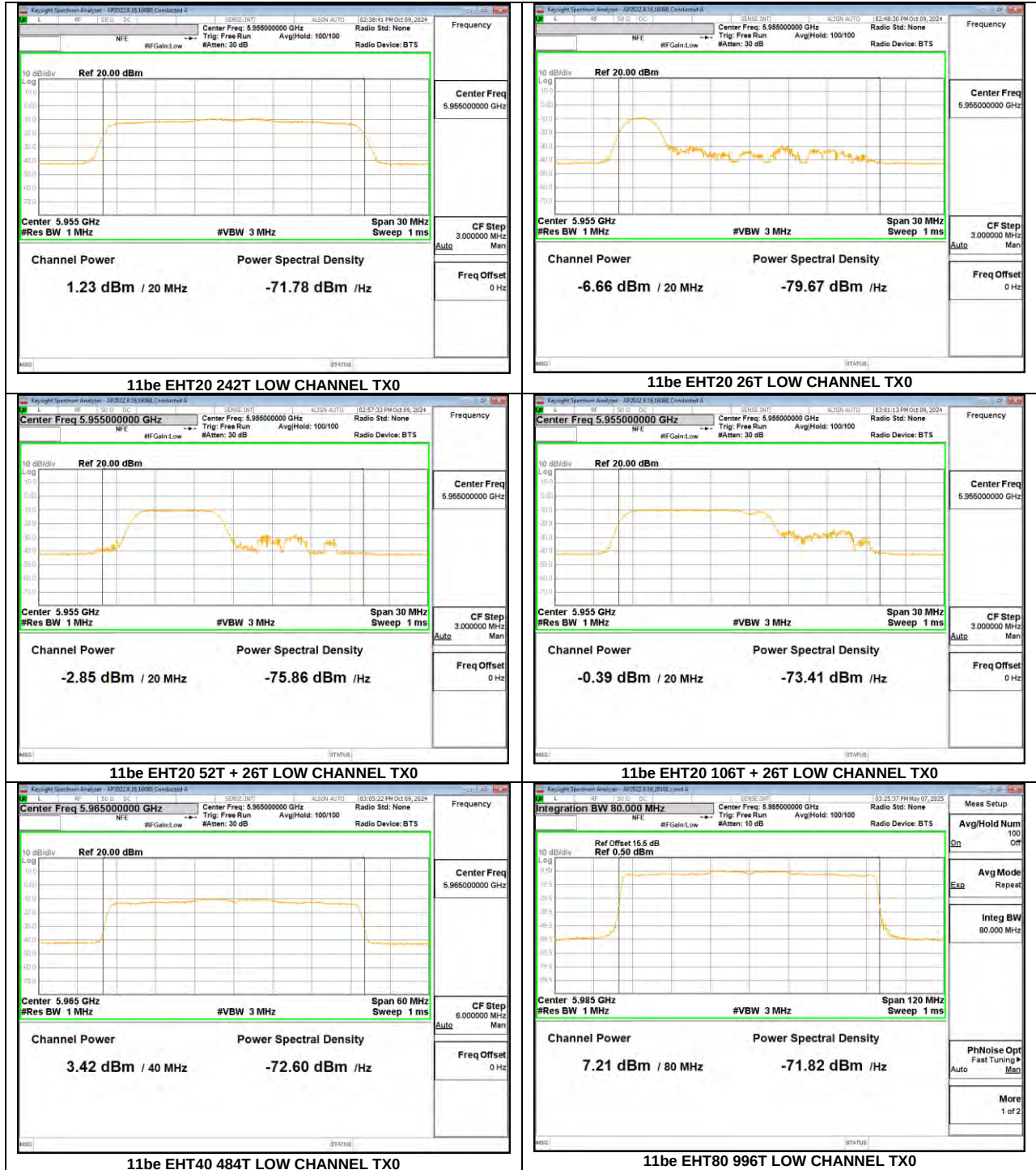
RESULTS

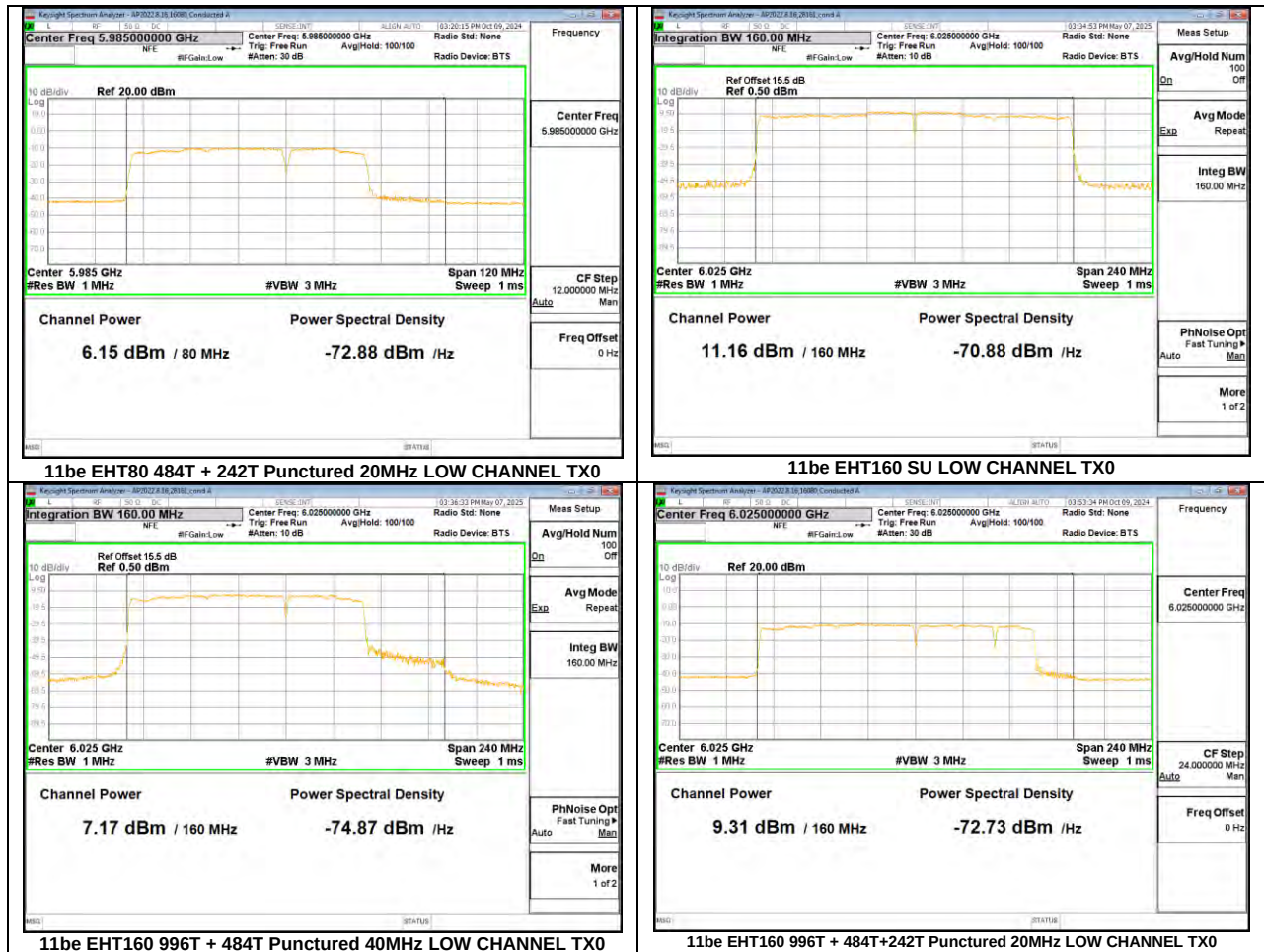
Partial plots included in PSD for each band are representative of the method and settings parameters used for the test. Partial power plots only shown in UNII-5 as representative of the method and settings parameters used for the test.

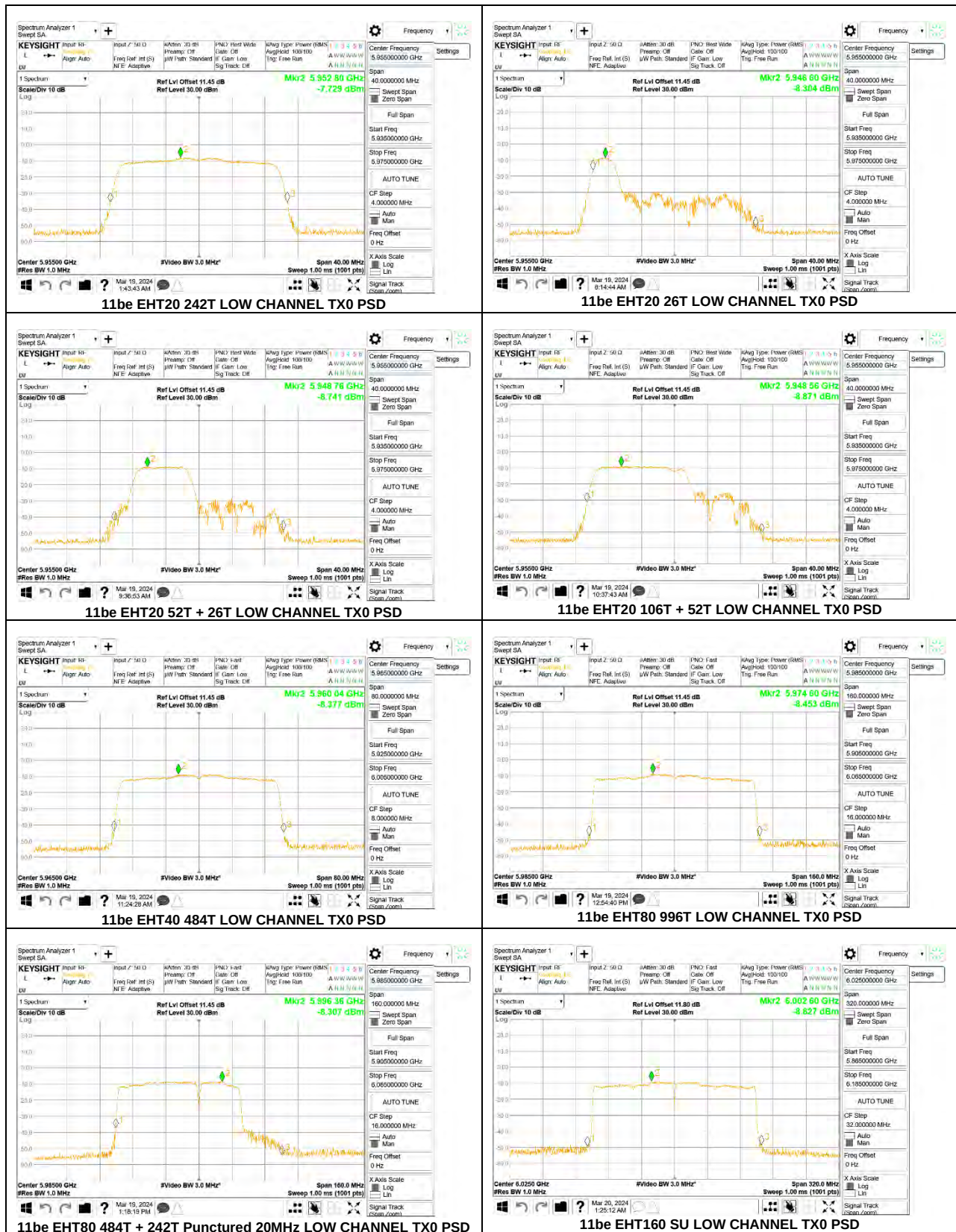
Test Engineer:	NM 19232, ZS 16080
Test Date:	2024-03-19 TO 2025-05-07

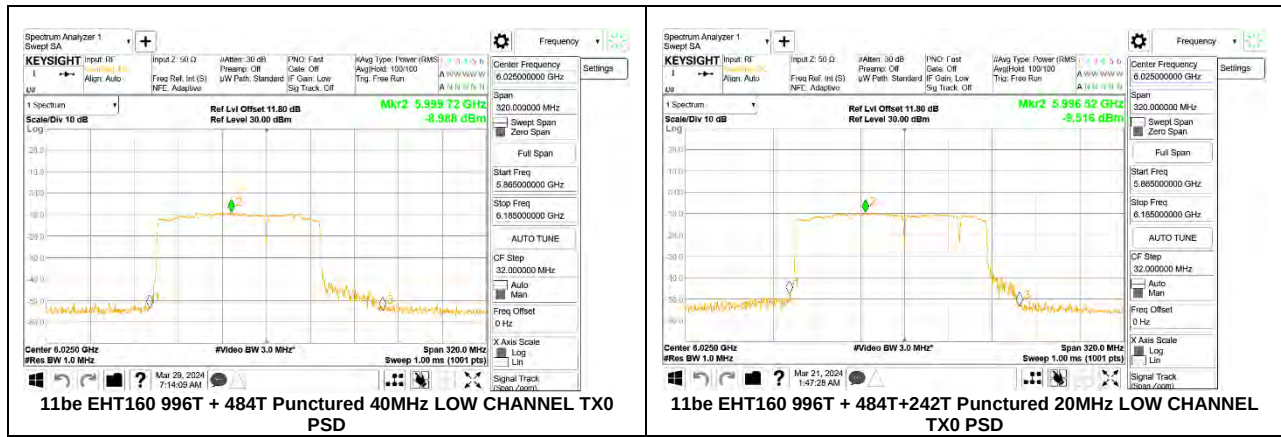
9.3.1. UNII-5

Band (GHz)	No. of Tx	Mode	Channel	Frequency (MHz)	Tones	RU Index	Antenna Peak Gain (dBi) Tx0	Antenna Peak Gain (dBi) Tx1	Uncorrelated Directional Gain for Power (dBi)	Correlated Directional Gain for PSD (dBi)	Measured Conducted Avg Power (dbm) Tx0	Measured Conducted Avg Power (dbm) Tx1	Total Corrected EIRP Power with DCCF (dbm)	EIRP Power Limit (dbm)	Power Margin (dB)	PSD (dbm/1MHz) Tx0	PSD (dbm/1MHz) Tx1	Corrected EIRP PSD with DCCF (dbm/1MHz)	EIRP PSD Limit (dbm/1MHz)	EIRP PSD Margin (dB)	
NII_5 (VLP)	2	11a	1	5955			-5.4	-2.1	-3.44	-0.58	1.30	1.32	0.88	14.00	-13.12	-7.776	-8.009	-5.46	-5.00	-0.46	
			45	6175			-5.4	-2.1	-3.44	-0.58	1.46	1.99	1.30	14.00	-12.70	-8.075	-7.577	-5.39	-5.00	-0.39	
			93	6415			-5.4	-2.1	-3.44	-0.58	1.36	1.76	1.13	14.00	-12.87	-8.417	-7.625	-5.58	-5.00	-0.58	
		11be EHT20	1	5955	242T	61	-5.4	-2.1	-3.44	-0.58	1.23	1.76	1.22	14.00	-12.78	-7.729	-7.837	-5.21	-5.00	-0.21	
			45	6175			-5.4	-2.1	-3.44	-0.58	1.67	1.86	1.48	14.00	-12.52	-7.855	-7.889	-5.30	-5.00	-0.30	
			93	6415			-5.4	-2.1	-3.44	-0.58	1.57	1.85	1.43	14.00	-12.57	-8.094	-7.904	-5.42	-5.00	-0.42	
			1	5955			-5.4	-2.1	-3.44	-0.58	-0.94	-0.41	-0.98	14.00	-14.98	-8.305	-7.934	-5.57	-5.00	-0.57	
			45	6175	106T	53	-5.4	-2.1	-3.44	-0.58	-0.17	-0.16	-0.48	14.00	-14.48	-8.010	-8.084	-5.50	-5.00	-0.50	
			93	6415			-5.4	-2.1	-3.44	-0.58	-0.95	-0.21	-0.88	14.00	-14.88	-8.555	-7.836	-5.63	-5.00	-0.63	
			1	5955			-5.4	-2.1	-3.44	-0.58	-3.75	-3.39	-3.87	14.00	-17.87	-8.493	-7.813	-5.59	-5.00	-0.59	
			45	6175			-5.4	-2.1	-3.44	-0.58	-3.51	-3.01	-3.56	14.00	-17.56	-8.169	-7.991	-5.53	-5.00	-0.53	
			93	6415	52T	40	-5.4	-2.1	-3.44	-0.58	-3.63	-3.21	-3.72	14.00	-17.72	-8.596	-7.871	-5.67	-5.00	-0.67	
			1	5955			0	-5.4	-2.1	-3.44	-0.58	-6.66	-5.83	-6.55	14.00	-20.55	-8.304	-7.621	-5.42	-5.00	-0.42
			45	6175			4	-5.4	-2.1	-3.44	-0.58	-6.51	-5.62	-6.37	14.00	-20.37	-8.253	-7.874	-5.53	-5.00	-0.53
			93	6415			8	-5.4	-2.1	-3.44	-0.58	-6.52	-5.93	-6.54	14.00	-20.54	-8.851	-8.130	-5.94	-5.00	-0.94
		11be EHT20	1	5955	26T	70	-5.4	-2.1	-3.44	-0.58	-2.85	-1.85	-2.75	14.00	-16.75	-8.741	-8.089	-5.98	-5.00	-0.98	
			45	6175			71	-5.4	-2.1	-3.44	-0.58	-2.57	-1.72	-2.56	14.00	-16.56	-8.362	-8.290	-5.90	-5.00	-0.90
			93	6415			72	-5.4	-2.1	-3.44	-0.58	-2.99	-1.85	-2.82	14.00	-16.82	-8.402	-8.110	-5.83	-5.00	-0.83
			1	5955			82	-5.4	-2.1	-3.44	-0.58	-0.39	0.51	-0.35	14.00	-14.35	-8.871	-7.769	-5.86	-5.00	-0.86
			45	6175	106T + 26T	83	-5.4	-2.1	-3.44	-0.58	-0.10	0.52	-0.21	14.00	-14.21	-8.248	-8.185	-5.79	-5.00	-0.79	
			93	6415			-5.4	-2.1	-3.44	-0.58	-0.40	0.51	-0.35	14.00	-14.35	-8.475	-7.745	-5.67	-5.00	-0.67	
			3	5965			-5.4	-2.1	-3.44	-0.58	3.42	4.04	3.58	14.00	-10.42	-8.377	-7.818	-5.39	-5.00	-0.39	
			43	6165			-5.4	-2.1	-3.44	-0.58	3.49	4.77	4.02	14.00	-9.98	-8.005	-8.022	-5.31	-5.00	-0.31	
			91	6405			-5.4	-2.1	-3.44	-0.58	3.36	4.56	3.84	14.00	-10.16	-8.592	-7.961	-5.57	-5.00	-0.57	
			11be EHT40	7	5985	996T	67	-5.4	-2.1	-3.44	-0.58	7.21	7.02	7.18	14.00	-6.82	-8.453	-8.008	-5.30	-5.00	-0.30
				39	6145			-5.4	-2.1	-3.44	-0.58	7.21	7.40	7.37	14.00	-6.63	-8.110	-8.765	-5.50	-5.00	-0.50
				87	6385			-5.4	-2.1	-3.44	-0.58	7.27	7.31	7.35	14.00	-6.65	-8.539	-8.575	-5.63	-5.00	-0.63
		7		5985	-5.4			-2.1	-3.44	-0.58	6.15	6.34	5.92	14.00	-8.08	-8.307	-8.166	-5.71	-5.00	-0.71	
		39		6145	484T + 242T Puncture 20MHz	8	-5.4	-2.1	-3.44	-0.58	6.45	6.48	6.13	14.00	-7.87	-8.209	-8.157	-5.65	-5.00	-0.65	
		87		6385			-5.4	-2.1	-3.44	-0.58	6.05	6.45	5.92	14.00	-8.08	-8.992	-8.410	-6.16	-5.00	-1.16	
		11be EHT80	15	6025	SU		-5.4	-2.1	-3.44	-0.58	11.16	10.30	10.53	14.00	-3.47	-8.627	-8.160	-5.75	-5.00	-0.75	
			47	6185			-5.4	-2.1	-3.44	-0.58	11.45	10.85	10.94	14.00	-3.06	-7.657	-8.084	-5.23	-5.00	-0.23	
			79	6345			-5.4	-2.1	-3.44	-0.58	11.43	10.72	10.86	14.00	-3.14	-7.690	-8.104	-5.26	-5.00	-0.26	
			15	6025			-5.4	-2.1	-3.44	-0.58	7.17	8.00	7.74	14.00	-6.26	-8.988	-9.180	-6.08	-5.00	-1.08	
			47	6185	996T + 484T Puncture 40MHz	48	-5.4	-2.1	-3.44	-0.58	7.43	8.44	8.10	14.00	-5.90	-7.962	-9.159	-5.52	-5.00	-0.52	
			79	6345			-5.4	-2.1	-3.44	-0.58	7.33	8.42	8.05	14.00	-5.95	-7.910	-8.924	-5.39	-5.00	-0.39	
			15	6025			-5.4	-2.1	-3.44	-0.58	9.31	9.62	9.57	14.00	-4.43	-9.516	-9.228	-6.41	-5.00	-1.41	
			47	6185			-5.4	-2.1	-3.44	-0.58	9.90	9.65	9.88	14.00	-4.12	-8.324	-8.662	-5.53	-5.00	-0.53	
			79	6345	996T + 484T + 242T Puncture 20MHz	1	-5.4	-2.1	-3.44	-0.58	9.73	9.34	9.64	14.00	-4.36	-8.743	-8.991	-5.91	-5.00	-0.91	
			79	6345			-5.4	-2.1	-3.44	-0.58	9.73	9.34	9.64	14.00	-4.36	-8.743	-8.991	-5.91	-5.00	-0.91	

POWER



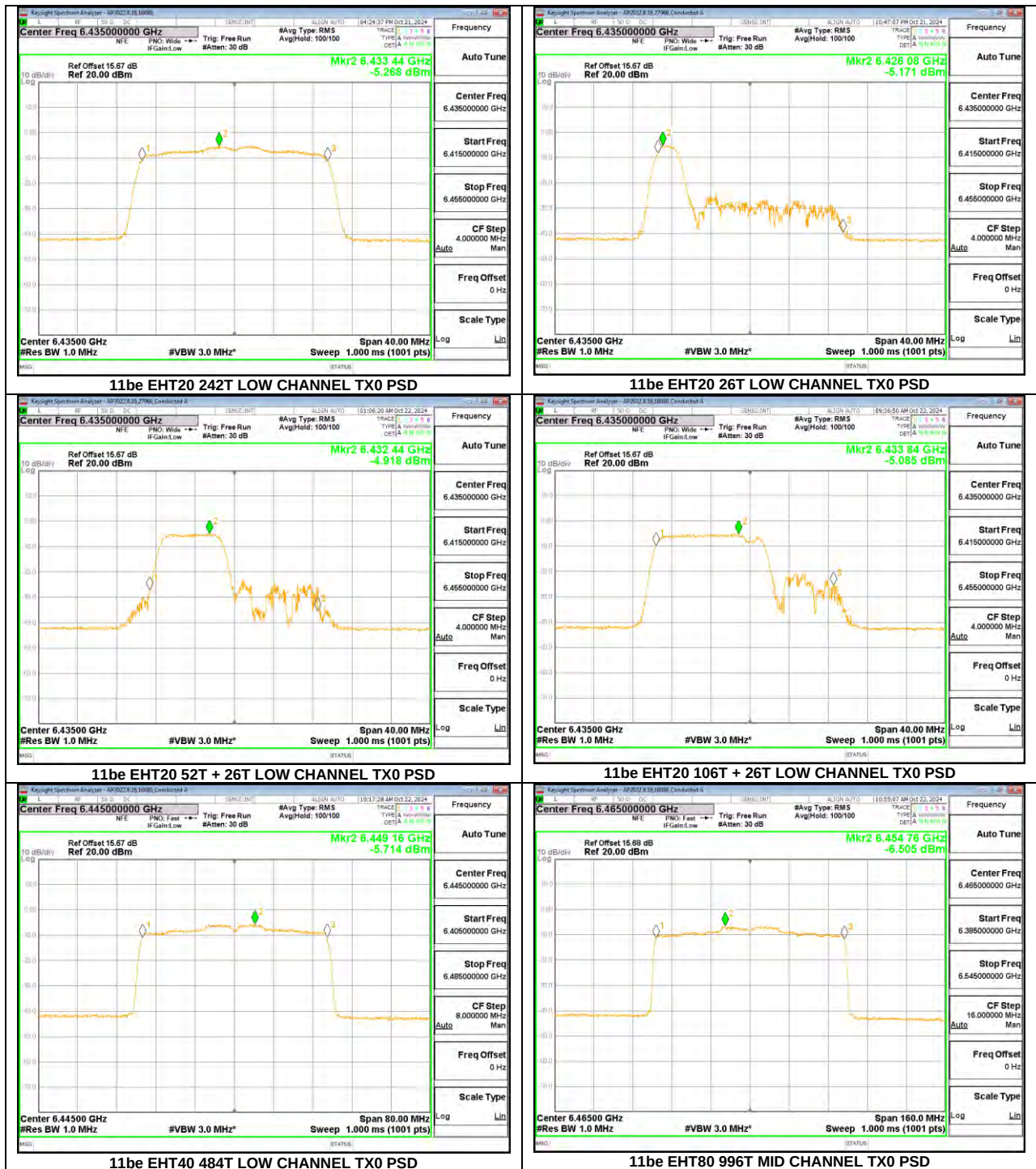
PSD

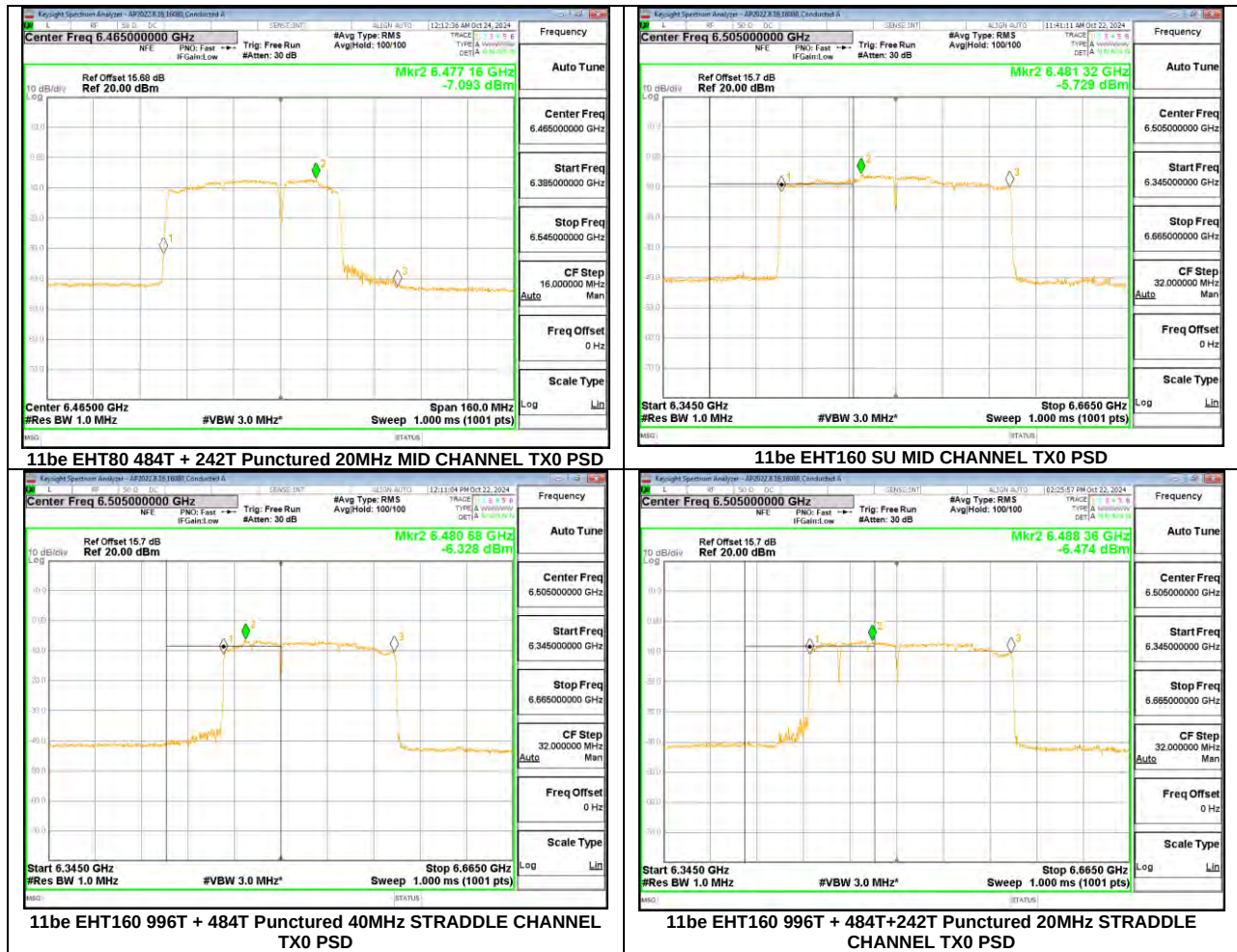


9.3.2. UNII-6

Band (GHz)	No. of Tx	Mode	Channel	Frequency (MHz)	Tones	RU Index	Antenna	Antenna	Uncorrelated	Correlated	Measured	Measured	Total	EIRP Power Limit	Power Margin	PSD (dBm/1MHz)	PSD (dBm/1MHz)	Corrected EIRP PSD with DCCF (dBm/1MHz)	EIRP PSD Limit (dBm/1MHz)	EIRP PSD Margin (dB)	
							Peak	Peak	Directional	Directional	Conducted	Conducted	Corrected								
							Gain (dBi)	Gain (dBi)	Gain for Power	Gain for PSD	Avg Power (dBm)	Avg Power (dBm)	EIRP Power with DCCF								
							Tx0	Tx1	(dB)	(dB)	Tx0	Tx1	(dBm)	(dBm)	(dB)	Tx0	Tx1				
NII_6 (VLP)	2	11a	97	6435			-4.3	-7.3	-5.55	-2.66	4.41	3.91	1.63	14.00	-12.37	-5.020	-6.495	-5.35	-5.00	-0.35	
			105	6475			-4.3	-7.3	-5.55	-2.66	4.47	3.94	1.68	14.00	-12.32	-4.830	-6.753	-5.34	-5.00	-0.34	
			113	6515			-4.3	-7.3	-5.55	-2.66	4.03	3.79	1.38	14.00	-12.62	-5.053	-6.755	-5.47	-5.00	-0.47	
			97	6435			-4.3	-7.3	-5.55	-2.66	4.46	4.23	1.96	14.00	-12.04	-5.268	-6.566	-5.37	-5.00	-0.37	
			105	6475			-4.3	-7.3	-5.55	-2.66	4.54	4.16	1.97	14.00	-12.03	-4.948	-6.876	-5.31	-5.00	-0.31	
			113	6515			-4.3	-7.3	-5.55	-2.66	4.33	4.18	1.87	14.00	-12.13	-5.196	-6.930	-5.48	-5.00	-0.48	
			97	6435			-4.3	-7.3	-5.55	-2.66	2.54	2.42	0.07	14.00	-13.93	-5.219	-6.795	-5.46	-5.00	-0.46	
			105	6475			-4.3	-7.3	-5.55	-2.66	2.66	2.40	0.12	14.00	-13.88	-5.134	-6.704	-5.38	-5.00	-0.38	
			113	6515			-4.3	-7.3	-5.55	-2.66	2.55	2.43	0.08	14.00	-13.92	-5.347	-6.749	-5.52	-5.00	-0.52	
		11bE HT20	97	6435			37	-4.3	-7.3	-5.55	-2.66	-0.41	-0.98	-3.10	14.00	-17.10	-5.233	-6.599	-5.39	-5.00	-0.39
			105	6475			38	-4.3	-7.3	-5.55	-2.66	-0.36	-0.97	-3.06	14.00	-17.06	-5.184	-6.939	-5.50	-5.00	-0.50
			113	6515			40	-4.3	-7.3	-5.55	-2.66	-0.50	-0.81	-3.06	14.00	-17.06	-5.237	-6.890	-5.51	-5.00	-0.51
			97	6435			0	-4.3	-7.3	-5.55	-2.66	-3.24	-3.74	-5.91	14.00	-19.91	-5.171	-6.953	-5.52	-5.00	-0.52
			105	6475			4	-4.3	-7.3	-5.55	-2.66	-3.22	-3.00	-5.54	14.00	-19.54	-5.237	-6.946	-5.55	-5.00	-0.55
			113	6515			8	-4.3	-7.3	-5.55	-2.66	-3.45	-3.86	-6.08	14.00	-20.08	-5.143	-6.944	-5.50	-5.00	-0.50
			97	6435			70	-4.3	-7.3	-5.55	-2.66	1.34	0.95	-1.39	14.00	-15.39	-4.918	-6.711	-5.37	-5.00	-0.37
			105	6475			71	-4.3	-7.3	-5.55	-2.66	1.50	1.00	-1.28	14.00	-15.28	-5.200	-6.600	-5.49	-5.00	-0.49
			113	6515			72	-4.3	-7.3	-5.55	-2.66	1.18	0.83	-1.53	14.00	-15.53	-5.062	-6.798	-5.49	-5.00	-0.49
			97	6435			82	-4.3	-7.3	-5.55	-2.66	3.42	3.09	0.72	14.00	-13.28	-5.085	-6.659	-5.45	-5.00	-0.45
			105	6475			83	-4.3	-7.3	-5.55	-2.66	3.50	3.08	0.76	14.00	-13.24	-5.364	-6.035	-5.34	-5.00	-0.34
		11bE HT40	113	6515			83	-4.3	-7.3	-5.55	-2.66	3.50	3.02	0.73	14.00	-13.27	-5.764	-5.961	-5.51	-5.00	-0.51
			99	6445			-4.3	-7.3	-5.55	-2.66	5.64	5.66	3.39	14.00	-10.61	-5.714	-6.063	-5.26	-5.00	-0.26	
			*115 (Straddle)	6525	484T	65	-3.2	-4.7	-3.89	-0.91	5.69	5.74	5.11	14.00	-8.89	-7.684	-7.664	-5.30	-5.00	-0.30	
			103	6465	996T	67	-4.3	-7.3	-5.55	-2.66	9.28	9.27	7.24	14.00	-6.76	-6.505	-6.286	-5.55	-5.00	-0.55	
			11bE HT80	103	6465	484T + 242T Puncture 20MHz	8	-4.3	-7.3	-5.55	-2.66	8.66	9.09	6.45	14.00	-7.55	-7.093	-5.782	-5.94	-5.00	-0.94
				111 (Straddle)	6505	SU	-4.3	-7.3	-5.55	-2.66	13.38	13.59	11.16	14.00	-2.84	-5.729	-5.801	-5.21	-5.00	-0.21	
				111 (Straddle)	6505	996T + 484T Puncture 40MHz	3	-4.3	-7.3	-5.55	-2.66	12.15	12.10	10.16	14.00	-3.84	-6.328	-6.645	-5.56	-5.00	-0.56
			11bE EHT160	111 (Straddle)	6505	996T + 484T + 242T Puncture 20MHz	1	-4.3	-7.3	-5.55	-2.66	12.77	12.86	10.81	14.00	-3.19	-6.474	-6.630	-5.67	-5.00	-0.67

*straddle channel 115 using UNII-7 uncorrelated/correlated directional gain as worse case.

PSD

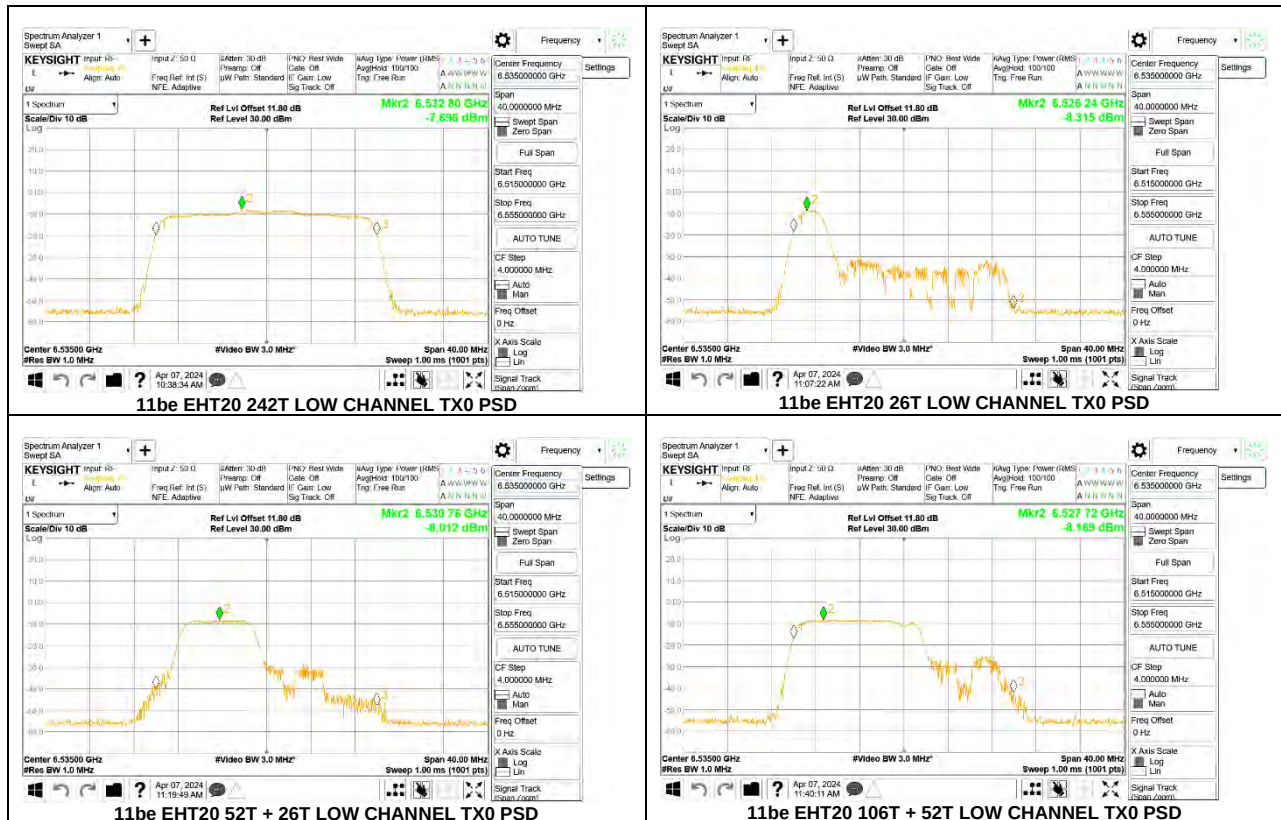


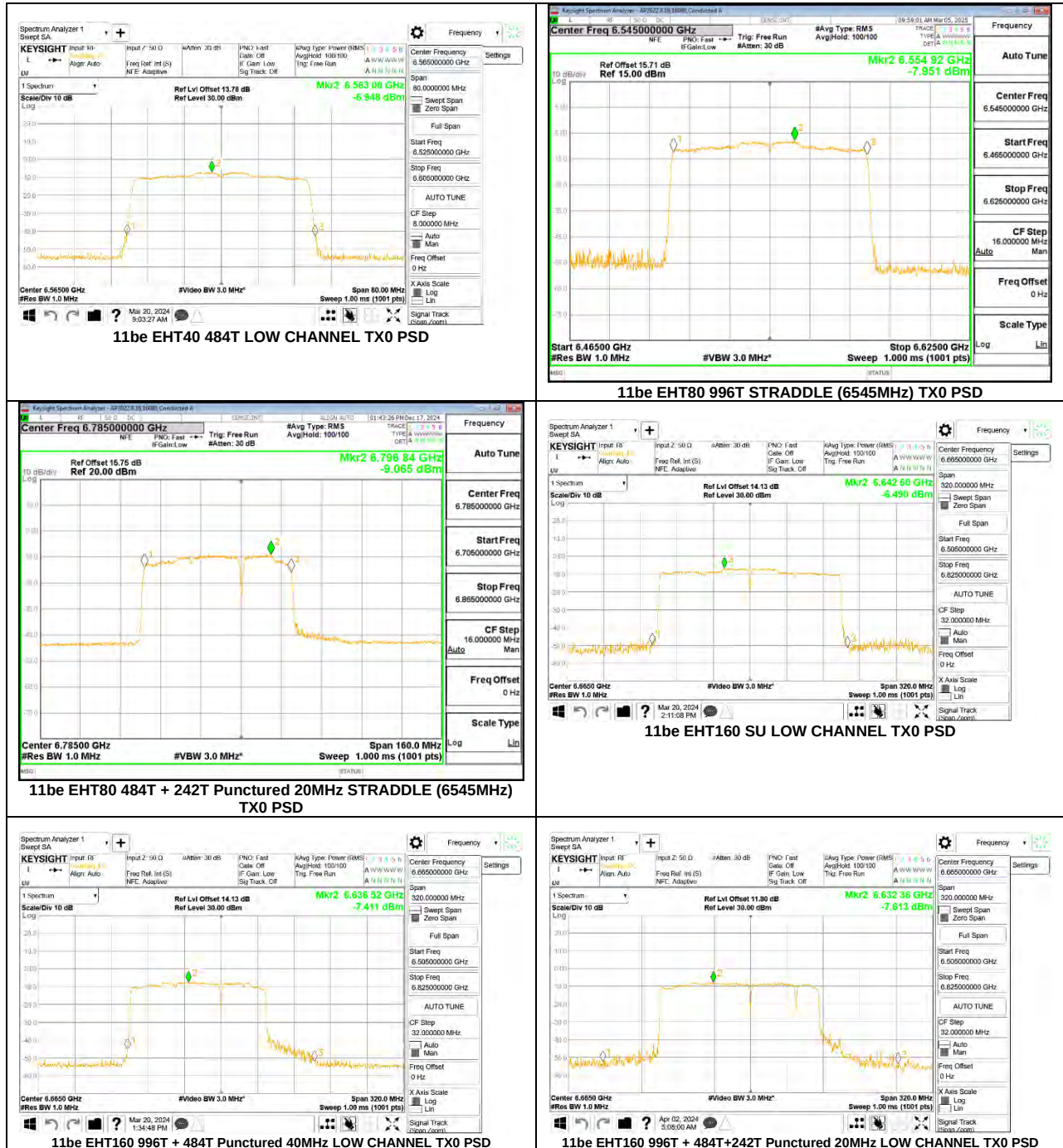
9.3.3. UNII-7

No. of Tx	Mode	Channel	Frequency (MHz)	Tones	RU Index	Antenna Peak Gain (dBi)	Antenna Peak Gain (dBi)	Uncorrelated Directional Gain for Power	Correlated Directional Gain for PSD	Measured Conducted Avg Power (dBm)	Measured Conducted Avg Power (dBm)	Total Corrected EIRP Power with DCCF	EIRP Power Limit	Power Margin	PSD (dBm/1MHz)	PSD (dBm/1MHz)	Corrected EIRP PSD with DCCF (dBm/1MHz)	EIRP PSD Limit (dBm/1MHz)	EIRP PSD Margin (dB)	
						Tx0	Tx1	(dBi)	(dBi)	Tx0	Tx1	(dBm)	(dBm)	(dB)	Tx0	Tx1				
2	11a	117	6535			-3.2	-4.7	-3.89	-0.91	1.05	1.97	0.66	14.00	-13.34	-6.570	-9.485	-5.68	-5.00	-0.68	
		153	6715			-3.2	-4.7	-3.89	-0.91	1.45	1.98	0.85	14.00	-13.15	-6.536	-9.339	-5.61	-5.00	-0.61	
		*185 (Straddle)	6875			-2.8	-4.5	-3.57	-0.60	1.43	1.94	1.14	14.00	-12.86	-8.054	-7.464	-5.34	-5.00	-0.34	
	11be EHT20	117	6535		242T	61	-3.2	-4.7	-3.89	-0.91	1.96	2.01	1.26	14.00	-12.74	-7.696	-7.893	-5.54	-5.00	-0.54
		153	6715		242T	61	-3.2	-4.7	-3.89	-0.91	1.99	2.05	1.29	14.00	-12.71	-6.558	-9.361	-5.49	-5.00	-0.49
		*185 (Straddle)	6875		242T	61	-2.8	-4.5	-3.57	-0.60	1.71	2.04	1.47	14.00	-12.53	-8.326	-7.395	-5.28	-5.00	-0.28
		117	6535		106T	53	-3.2	-4.7	-3.89	-0.91	-0.30	-0.61	-1.21	14.00	-15.21	-8.048	-8.594	-6.09	-5.00	-1.09
		153	6715		106T	53	-3.2	-4.7	-3.89	-0.91	-0.19	-0.52	-1.10	14.00	-15.10	-7.472	-8.399	-5.69	-5.00	-0.69
		*185 (Straddle)	6875		106T	54	-2.8	-4.5	-3.57	-0.60	-0.21	-0.72	-0.89	14.00	-14.89	-8.475	-7.288	-5.31	-5.00	-0.31
		117	6535		52T	37	-3.2	-4.7	-3.89	-0.91	-2.94	-3.03	-3.73	14.00	-17.73	-7.716	-7.978	-5.62	-5.00	-0.62
		153	6715		52T	38	-3.2	-4.7	-3.89	-0.91	-2.63	-3.01	-3.57	14.00	-17.57	-7.696	-8.200	-5.71	-5.00	-0.71
		*185 (Straddle)	6875		52T	40	-2.8	-4.5	-3.57	-0.60	-2.73	-3.07	-3.33	14.00	-17.33	-8.264	-7.602	-5.38	-5.00	-0.38
		117	6535		26T	0	-3.2	-4.7	-3.89	-0.91	-5.99	-6.55	-7.03	14.00	-21.03	-8.315	-8.122	-6.01	-5.00	-1.01
		153	6715		26T	4	-3.2	-4.7	-3.89	-0.91	-5.56	-6.53	-6.79	14.00	-20.79	-6.731	-9.423	-5.66	-5.00	-0.66
		*185 (Straddle)	6875		26T	8	-2.8	-4.5	-3.57	-0.60	-5.58	-6.73	-6.57	14.00	-20.57	-8.421	-8.013	-5.69	-5.00	-0.69
		117	6535		52T + 26T	70	-3.2	-4.7	-3.89	-0.91	-1.38	-1.97	-2.54	14.00	-16.54	-8.012	-8.046	-5.93	-5.00	-0.93
		153	6715		52T + 26T	71	-3.2	-4.7	-3.89	-0.91	-1.21	-1.94	-2.43	14.00	-16.43	-7.714	-7.959	-5.73	-5.00	-0.73
		*185 (Straddle)	6875		52T + 26T	72	-2.8	-4.5	-3.57	-0.60	-1.25	-1.97	-2.15	14.00	-16.15	-8.582	-7.032	-5.33	-5.00	-0.33
		117	6535		106T + 26T	82	-3.2	-4.7	-3.89	-0.91	0.89	0.84	-0.01	14.00	-14.01	-8.169	-8.023	-5.99	-5.00	-0.99
		153	6715		106T + 26T	83	-3.2	-4.7	-3.89	-0.91	0.98	0.97	0.10	14.00	-13.90	-7.550	-8.106	-5.72	-5.00	-0.72
		*185 (Straddle)	6875		106T + 26T	83	-2.8	-4.5	-3.57	-0.60	0.90	0.95	0.37	14.00	-13.63	-8.811	-7.703	-5.81	-5.00	-0.81
	11be EHT40	123	6565		484T	65	-3.2	-4.7	-3.89	-0.91	5.86	4.50	4.63	14.00	-9.37	-6.948	-8.416	-5.24	-5.00	-0.24
		147	6685		484T	65	-3.2	-4.7	-3.89	-0.91	5.93	4.51	4.68	14.00	-9.32	-7.355	-8.734	-5.61	-5.00	-0.61
		179	6845		484T	65	-3.2	-4.7	-3.89	-0.91	5.92	3.93	4.44	14.00	-9.56	-7.177	-8.816	-5.54	-5.00	-0.54
	11be EHT80	119 (Straddle)	6545		996T	67	-3.2	-4.7	-3.89	-0.91	6.12	7.01	6.21	14.00	-7.79	-7.951	-8.290	-5.52	-5.00	-0.52
		151	6705		996T	67	-3.2	-4.7	-3.89	-0.91	6.23	7.04	6.27	14.00	-7.73	-7.155	-9.475	-5.56	-5.00	-0.56
		*183 (Straddle)	6865		996T	67	-2.8	-4.5	-3.57	-0.60	6.15	7.00	6.54	14.00	-7.46	-10.194	-8.981	-6.64	-5.00	-1.64
		119 (Straddle)	6545		484T + 242T	8	-3.2	-4.7	-3.89	-0.91	5.42	6.41	5.17	14.00	-8.83	-9.065	-8.151	-6.38	-5.00	-1.38
		151	6705		Puncture 20MHz	2	-3.2	-4.7	-3.89	-0.91	5.45	6.80	5.40	14.00	-8.60	-7.601	-7.998	-5.59	-5.00	-0.59
		*183 (Straddle)	6865		Puncture 20MHz	1	-2.8	-4.5	-3.57	-0.60	5.43	6.74	5.68	14.00	-8.32	-9.853	-9.275	-7.04	-5.00	-2.04
	11be EHT160	143	6665		SU		-3.2	-4.7	-3.89	-0.91	11.45	10.47	10.32	14.00	-3.68	-6.490	-9.270	-5.35	-5.00	-0.35
		*175 (Straddle)	6825		SU		-2.8	-4.5	-3.57	-0.60	11.41	10.49	10.63	14.00	-3.37	-8.283	-7.615	-5.31	-5.00	-0.31
		143	6665		996T + 484T Puncture 40MHz	192	-3.2	-4.7	-3.89	-0.91	10.41	8.71	9.34	14.00	-4.66	-7.411	-9.561	-5.68	-5.00	-0.68
		*175 (Straddle)	6825		996T + 484T Puncture 40MHz	192	-2.8	-4.5	-3.57	-0.60	9.90	8.56	9.30	14.00	-4.70	-8.647	-8.190	-5.43	-5.00	-0.43
		143	6665		996T + 484T + 242T Puncture 20MHz	128	-3.2	-4.7	-3.89	-0.91	10.77	10.28	10.19	14.00	-3.81	-7.613	-8.753	-5.51	-5.00	-0.51
		*175 (Straddle)	6825		996T + 484T + 242T Puncture 20MHz	128	-2.8	-4.5	-3.57	-0.60	10.03	10.31	10.15	14.00	-3.85	-9.595	-8.370	-5.99	-5.00	-0.99

*straddles channel 185, 183, 175 using UNII-8 uncorrelated/correlated directional gain as worse case.

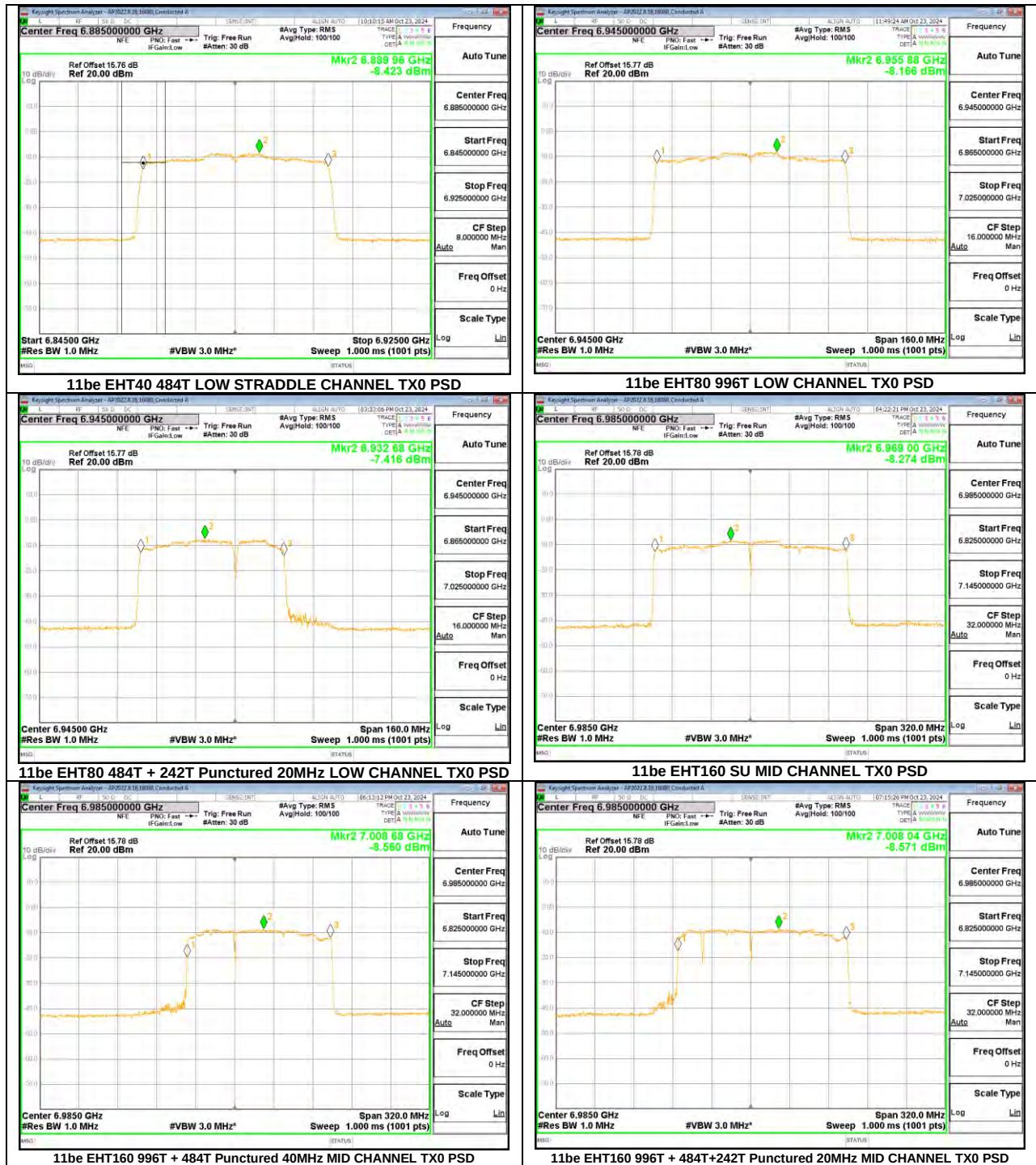
PSD





9.3.4. UNII-8

Band (GHz)	No. of Tx	Mode	Channel	Frequency (MHz)	Tones	RU Index	Antenna Peak Gain (dBi) Tx0	Antenna Peak Gain (dBi) Tx1	Uncorrelated Directional Gain for Power (dBi)	Correlated Directional Gain for PSD (dBi)	Measured Conducted Avg Power (dBm) Tx0	Measured Conducted Avg Power (dBm) Tx1	Total Corrected EIRP Power with DCCF (dBm)	EIRP Power Limit (dBm)	PSD (dBm/1MHz) Tx0	PSD (dBm/1MHz) Tx1	Corrected EIRP PSD with DCCF (dBm/1MHz)	EIRP PSD Limit (dBm/1MHz)	EIRP PSD Margin (dB)		
NII_8 (VLP)	2	11a	11a	6895	242T	61	-2.8	-4.5	-3.57	-0.60	1.96	2.62	1.75	14.00	-8.158	-7.141	-5.21	-5.00	-0.21		
				6995			-2.8	-4.5	-3.57	-0.60	1.97	2.63	1.76	14.00	-8.045	-7.938	-5.58	-5.00	-0.58		
				7095			-2.8	-4.5	-3.57	-0.60	1.70	2.56	1.59	14.00	-7.828	-7.775	-5.39	-5.00	-0.39		
			6895	-2.8			-4.5	-3.57	-0.60	2.70	2.90	2.39	14.00	-8.652	-7.256	-5.34	-5.00	-0.34			
			6995	-2.8			-4.5	-3.57	-0.60	2.73	2.95	2.43	14.00	-7.883	-7.959	-5.36	-5.00	-0.36			
			7095	-2.8			-4.5	-3.57	-0.60	2.73	2.92	2.42	14.00	-7.847	-7.720	-5.22	-5.00	-0.22			
			6895	-2.8		-4.5	-3.57	-0.60	0.79	0.29	0.11	14.00	-8.725	-7.293	-5.42	-5.00	-0.42				
			6995	-2.8		-4.5	-3.57	-0.60	0.98	0.35	0.24	14.00	-7.590	-8.578	-5.52	-5.00	-0.52				
			7095	-2.8		-4.5	-3.57	-0.60	0.98	0.27	0.20	14.00	-7.405	-8.441	-5.36	-5.00	-0.36				
			6895	-2.8		-4.5	-3.57	-0.60	-2.67	-2.80	-3.17	14.00	-8.622	-7.743	-5.62	-5.00	-0.62				
			6995	-2.8		-4.5	-3.57	-0.60	-2.61	-2.45	-2.96	14.00	-7.802	-8.237	-5.48	-5.00	-0.48				
			7095	-2.8		-4.5	-3.57	-0.60	-2.65	-2.58	-3.05	14.00	-7.567	-8.541	-5.49	-5.00	-0.49				
		11b EHT20	11b	6895	52T	53	0	-2.8	-4.5	-3.57	-0.60	-4.85	-4.94	-5.35	14.00	-8.447	-7.916	-5.66	-5.00	-0.66	
				6995			4	-2.8	-4.5	-3.57	-0.60	-4.19	-4.81	-4.94	14.00	-7.612	-8.193	-5.38	-5.00	-0.38	
				7095			8	-2.8	-4.5	-3.57	-0.60	-4.39	-4.98	-5.13	14.00	-7.671	-8.230	-5.42	-5.00	-0.42	
			6895	70			-2.8	-4.5	-3.57	-0.60	-0.36	-0.92	-1.19	14.00	-8.324	-7.354	-5.40	-5.00	-0.40		
			6995	71			-2.8	-4.5	-3.57	-0.60	-0.13	-0.91	-1.06	14.00	-7.245	-8.436	-5.39	-5.00	-0.39		
			7095	72			-2.8	-4.5	-3.57	-0.60	-0.18	-0.95	-1.11	14.00	-7.645	-8.072	-5.44	-5.00	-0.44		
			6895	82		-2.8	-4.5	-3.57	-0.60	1.77	1.79	1.22	14.00	-8.802	-7.024	-5.41	-5.00	-0.41			
			6995	83		-2.8	-4.5	-3.57	-0.60	1.78	1.90	1.28	14.00	-7.536	-8.080	-5.39	-5.00	-0.39			
			7095	83		-2.8	-4.5	-3.57	-0.60	1.56	1.55	1.00	14.00	-7.434	-7.858	-5.23	-5.00	-0.23			
			11b EHT40	11b		6885	484T	65	-2.8	-4.5	-3.57	-0.60	4.90	4.68	4.51	14.00	-8.423	-7.530	-5.27	-5.00	-0.27
						6965			-2.8	-4.5	-3.57	-0.60	4.94	4.95	4.66	14.00	-7.633	-8.337	-5.29	-5.00	-0.29
						7085			-2.8	-4.5	-3.57	-0.60	4.79	4.82	4.52	14.00	-7.402	-8.526	-5.24	-5.00	-0.24
		6945		-2.8	-4.5	-3.57			-0.60	8.09	8.67	8.33	14.00	-8.166	-8.162	-5.26	-5.00	-0.26			
		7025		-2.8	-4.5	-3.57			-0.60	8.31	8.37	8.28	14.00	-7.882	-8.457	-5.25	-5.00	-0.25			
		6945		-2.8	-4.5	-3.57			-0.60	8.00	7.30	7.21	14.00	-7.416	-8.717	-5.50	-5.00	-0.50			
		11b EHT80		11b	6945	484T + 242T Puncture 20MHz		8	-2.8	-4.5	-3.57	-0.60	7.95	7.38	7.22	14.00	-8.057	-8.338	-5.68	-5.00	-0.68
					6945				-2.8	-4.5	-3.57	-0.60	11.38	11.50	11.09	14.00	-8.274	-8.044	-5.54	-5.00	-0.54
					7025				-2.8	-4.5	-3.57	-0.60	10.18	10.20	10.21	14.00	-8.560	-8.547	-5.57	-5.00	-0.57
				6945	-2.8				-4.5	-3.57	-0.60	10.64	10.80	10.70	14.00	-8.571	-8.536	-5.61	-5.00	-0.61	
				6985	-2.8				-4.5	-3.57	-0.60										
				7025	-2.8				-4.5	-3.57	-0.60										
			11b EHT160	11b	6985		996T + 484T + 242T Puncture 20MHz	1	-2.8	-4.5	-3.57	-0.60									
					6985				-2.8	-4.5	-3.57	-0.60									
					6985				-2.8	-4.5	-3.57	-0.60									
				6985	-2.8				-4.5	-3.57	-0.60										
				6985	-2.8				-4.5	-3.57	-0.60										
				6985	-2.8				-4.5	-3.57	-0.60										



9.4. VERY LOW POWER SPURIOUS EMISSIONS IN-BAND – EMISSION MASK

LIMITS

FCC §15.407

(b)(7) For transmitters operating within the 5.925-7.125 GHz bands: power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression, and at frequencies between one and one- and one-half times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression. Emissions removed from the channel center by more than one- and one-half times the channel bandwidth must be suppressed by at least 40 dB.- and one-half times the channel bandwidth must be suppressed by at least 40 dB.

TEST PROCEDURE

Per KDB 987594 D02 U-NII 6 GHz EMC Measurement Section II (J).

1. Connect output of the antenna port to a spectrum analyzer or EMI receiver, with appropriate attenuation, as to not damage the instrumentation.
2. Set the reference level of the measuring equipment in accordance with procedure 4.1.5.2 of ANSI C63.10-2013.
3. Measure the 26 dB EBW using the test procedure 12.4.1 of ANSI C63.10-2013. (This will be used to determine the channel edge.)
4. Measure the power spectral density (which will be used for emissions mask reference) using the following procedure:
 - a) Set the span to encompass the entire 26 dB EBW of the signal.
 - *b) Set RBW = same RBW used for 26 dB EBW measurement.
 - c) Set VBW $\geq 3 \times$ RBW
 - d) Number of points in sweep $\geq [2 \times \text{span} / \text{RBW}]$.
 - e) Sweep time = auto.
 - f) Detector = RMS (i.e., power averaging)
 - g) Trace average at least 100 traces in power averaging (rms) mode.

*According to Oct 25 2023 TCB Workshop:

However, as an option, a flat 1 MHz RBW may be used for the measurement of the PSD for placing the channel under the mask so long as 1 MHz is equal or greater than the RBW used for the initial EBW measurement.

→ 20, 40, and 80 MHz channels typically require a RBW of 1 MHz or less.

→ 160 and 320 MHz channels typically require a RBW of greater than 1 MHz.

For this report:

1. 1MHz RBW was used for 20, 40MHz channel
2. 1.6MHz RBW (same RBW as 80MHz EBW measurement) was used for 80MHz channel.
3. 3MHz RBW (same RBW as 160MHz EBW measurement) was used for 160MHz channel.

RESULTS

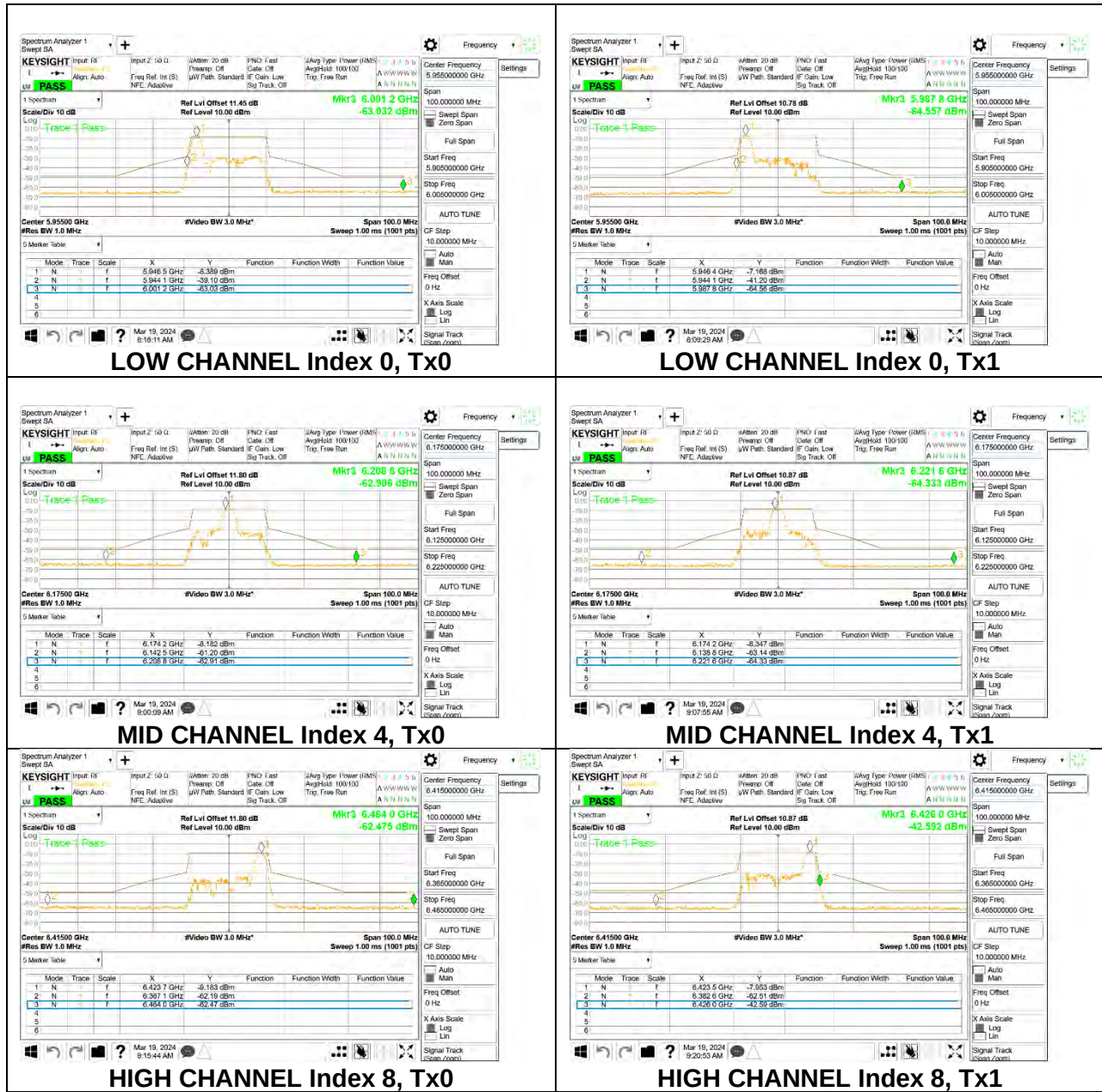
Report shown Full tones and 26Tones plots as worse case.

9.4.1. 802.11a MODE 2TX IN THE UNII-5**2TX Tx0 + Tx1 CDD**

9.4.2. 802.11be EHT20 MODE 2TX IN THE UNII-5

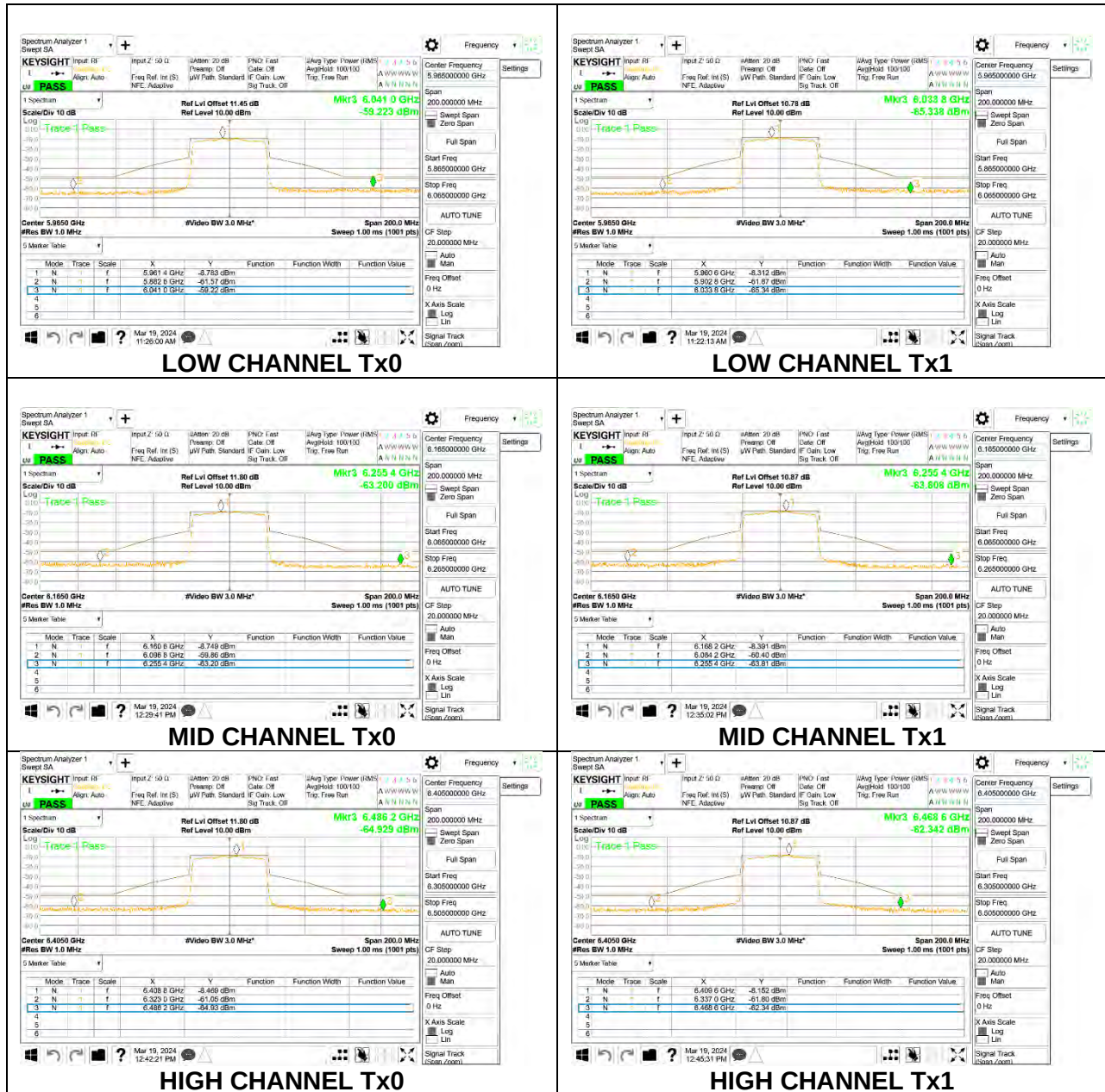
2TX Tx0 + Tx1 OFDMA MODE: 242T, RU Index 61



2TX Tx0 + Tx1 OFDMA MODE: 26T

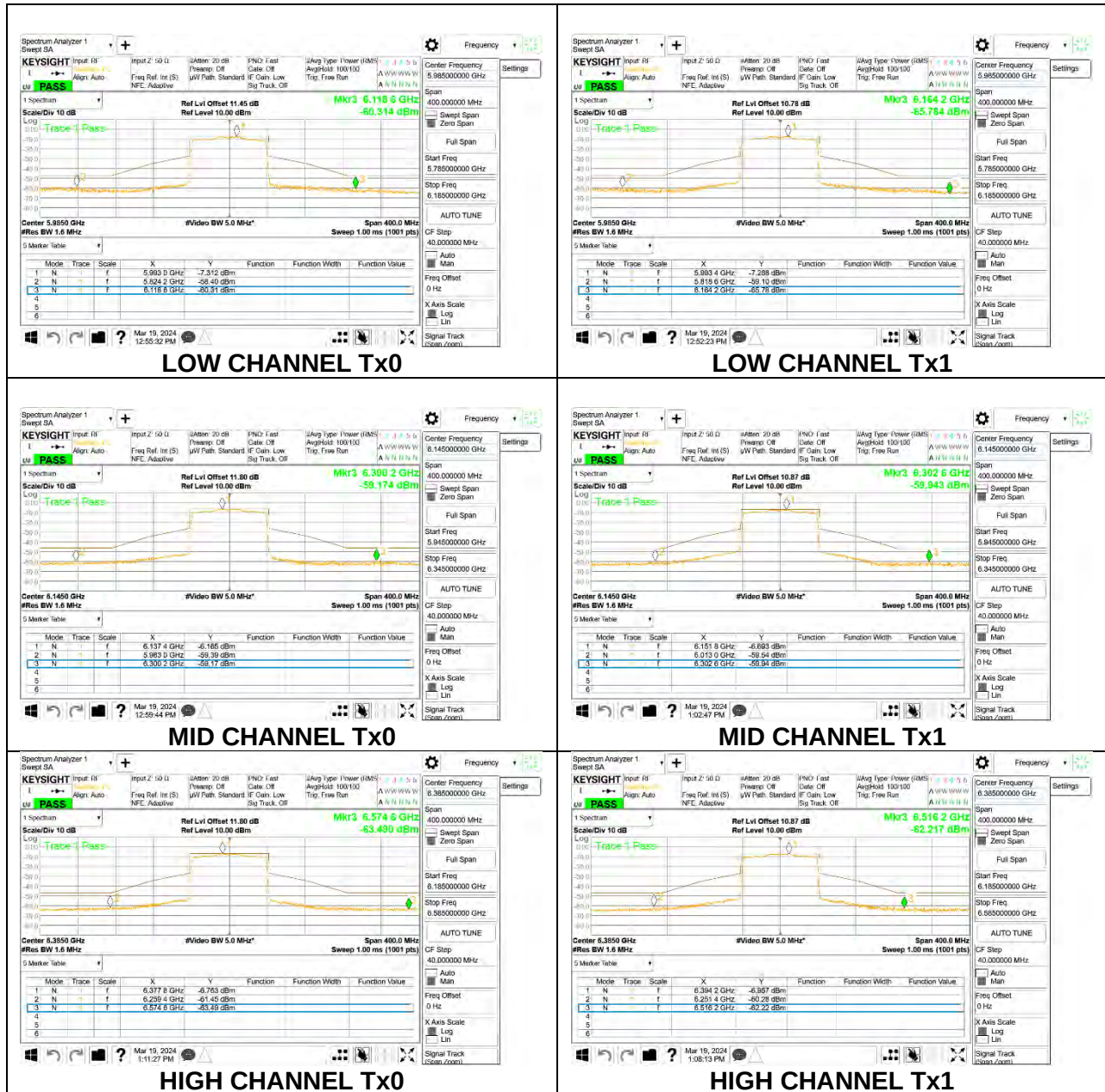
9.4.3. 802.11be EHT40 MODE 2TX IN THE UNII-5

2TX Tx0 + Tx1 OFDMA MODE: 484T, RU Index 65



9.4.4. 802.11be EHT80 MODE 2TX IN THE UNII-5

2TX Tx0 + Tx1 OFDMA MODE: 996T, RU Index 67



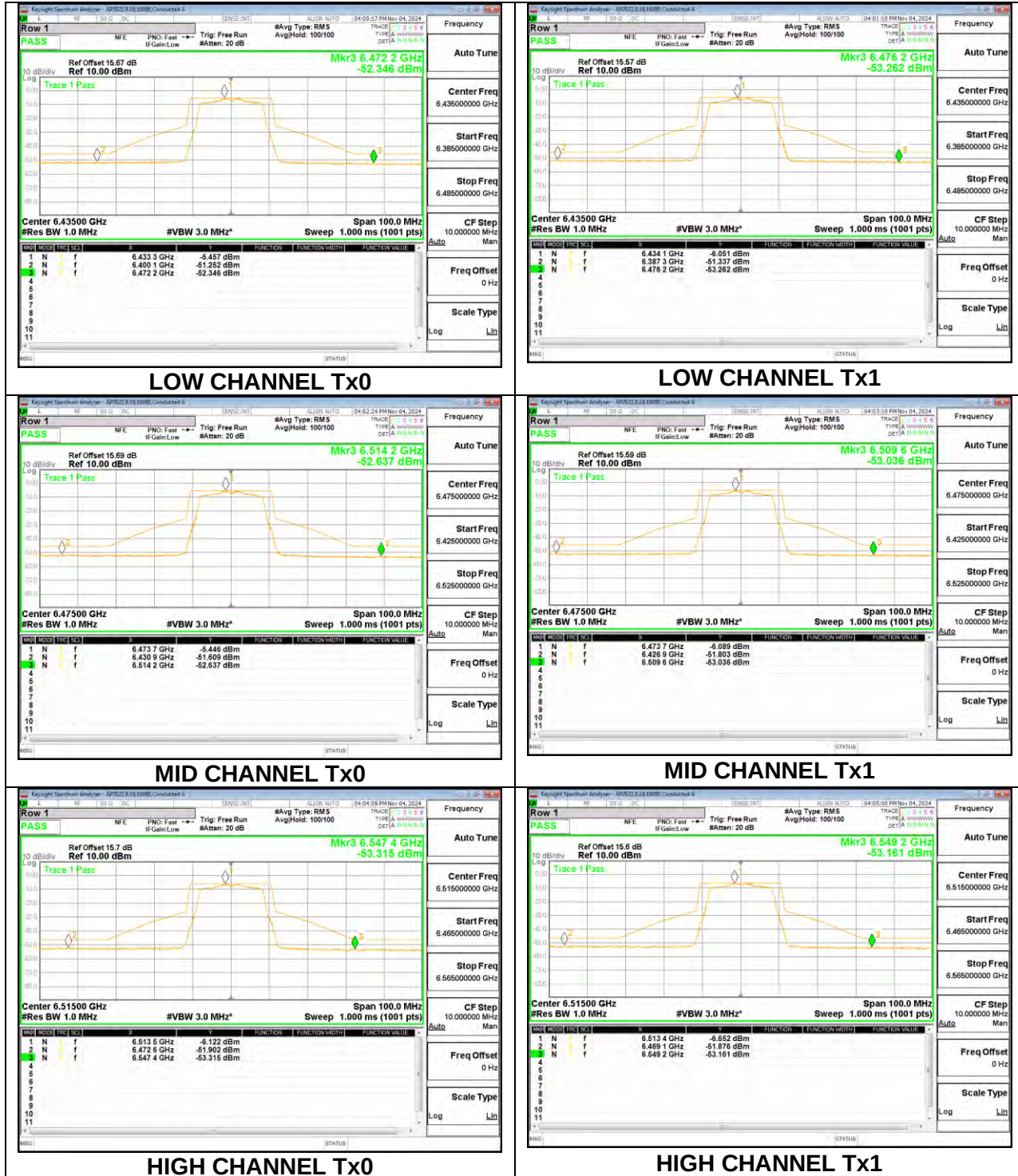
9.4.5. 802.11be EHT160 MODE 2TX IN THE UNII-5

2TX Tx0 + Tx1 OFDMA MODE: SU



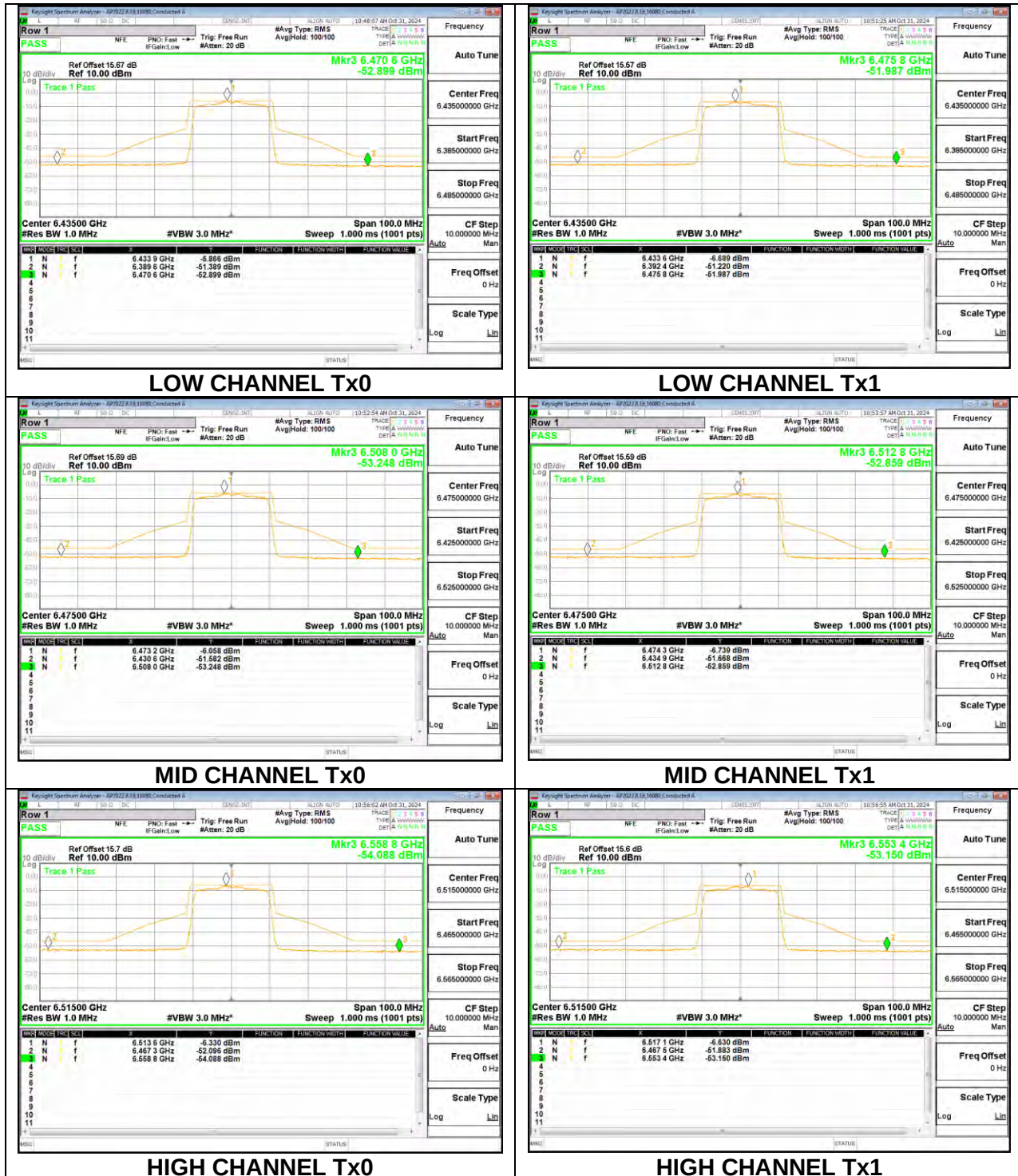
9.4.6. 802.11a MODE 2TX IN THE UNII-6

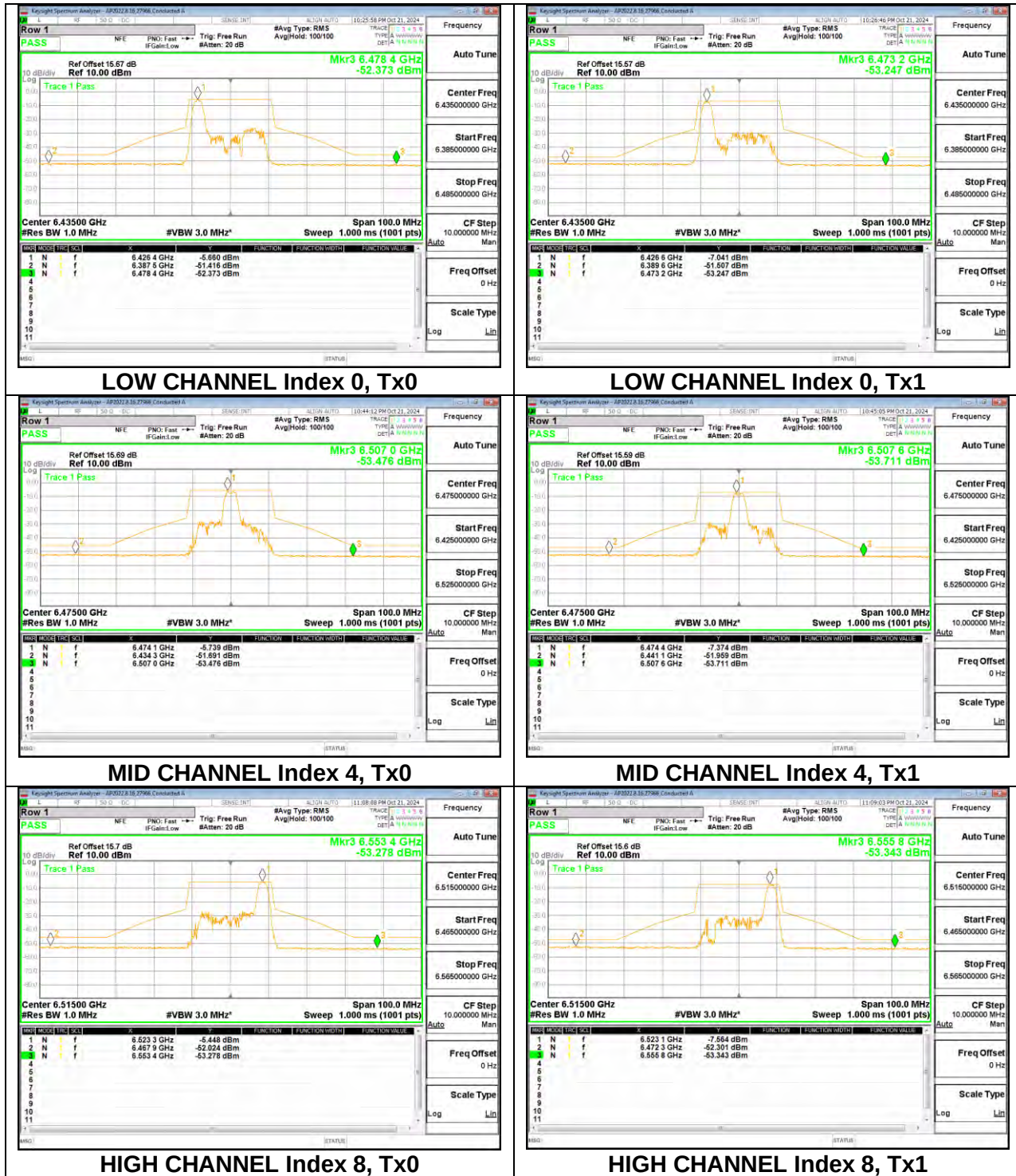
2TX Tx0 + Tx1 CDD



9.4.7. 802.11be EHT20 MODE 2TX IN THE UNII-6

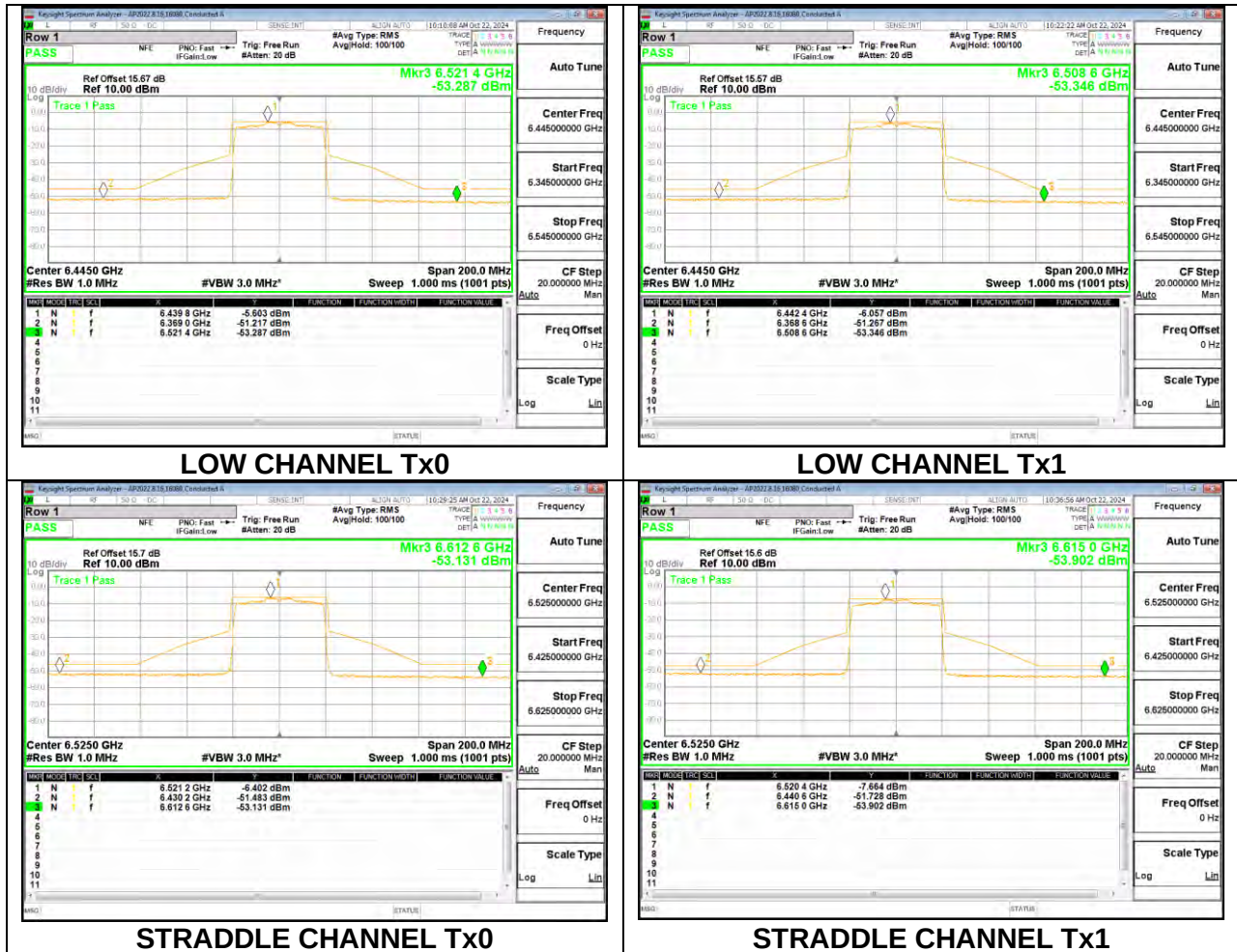
2TX Tx0 + Tx1 OFDMA MODE: 242T, RU Index 61



2TX Tx0 + Tx1 OFDMA MODE: 26T

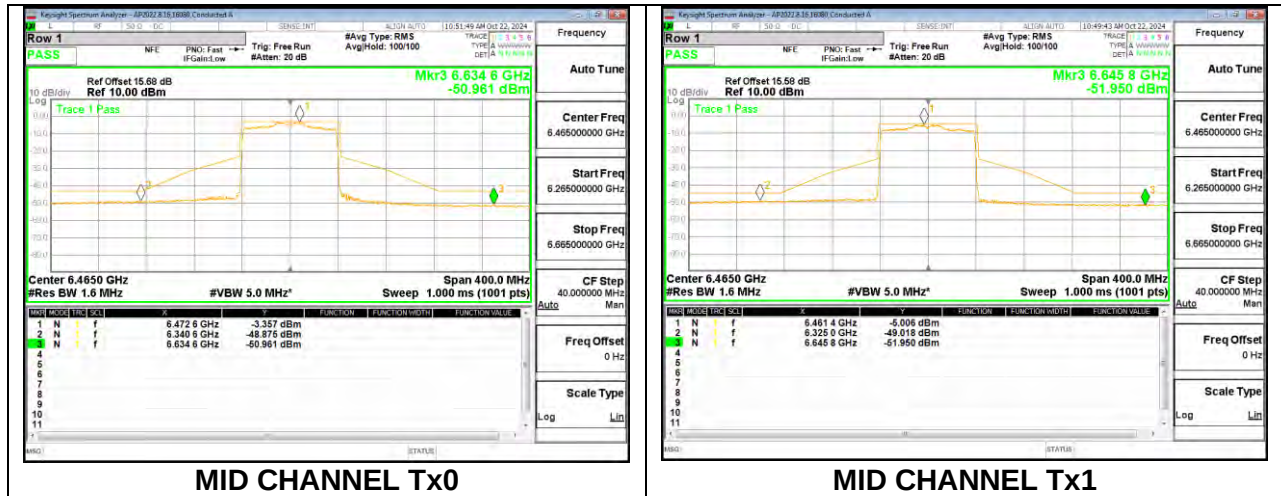
9.4.8. 802.11be EHT40 MODE 2TX IN THE UNII-6

2TX Tx0 + Tx1 OFDMA MODE: 484T, RU Index 65



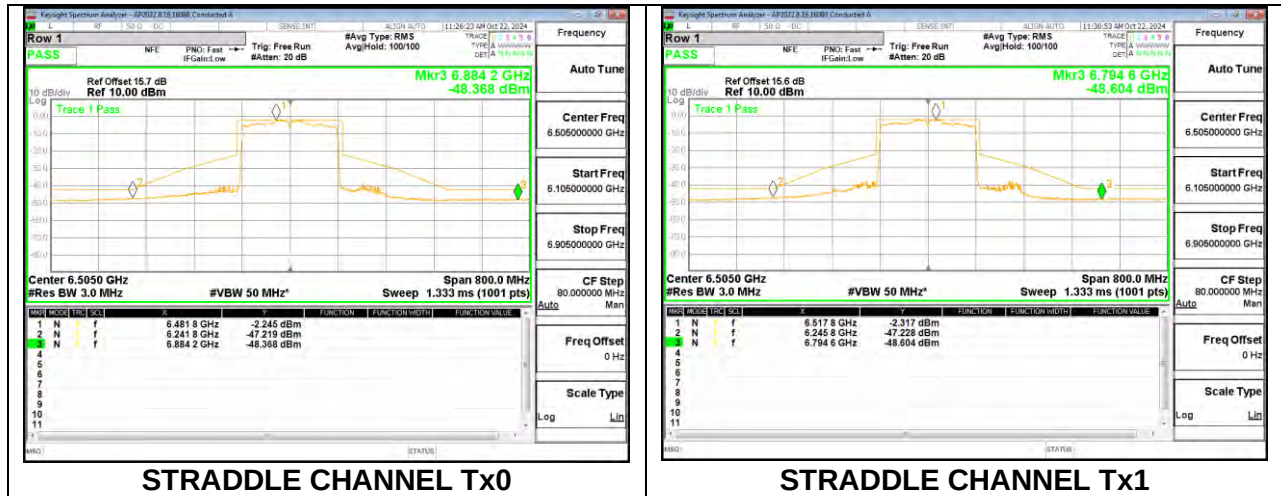
9.4.9. 802.11be EHT80 MODE 2TX IN THE UNII-6

2TX Tx0 + Tx1 OFDMA MODE: 996T, RU Index 67



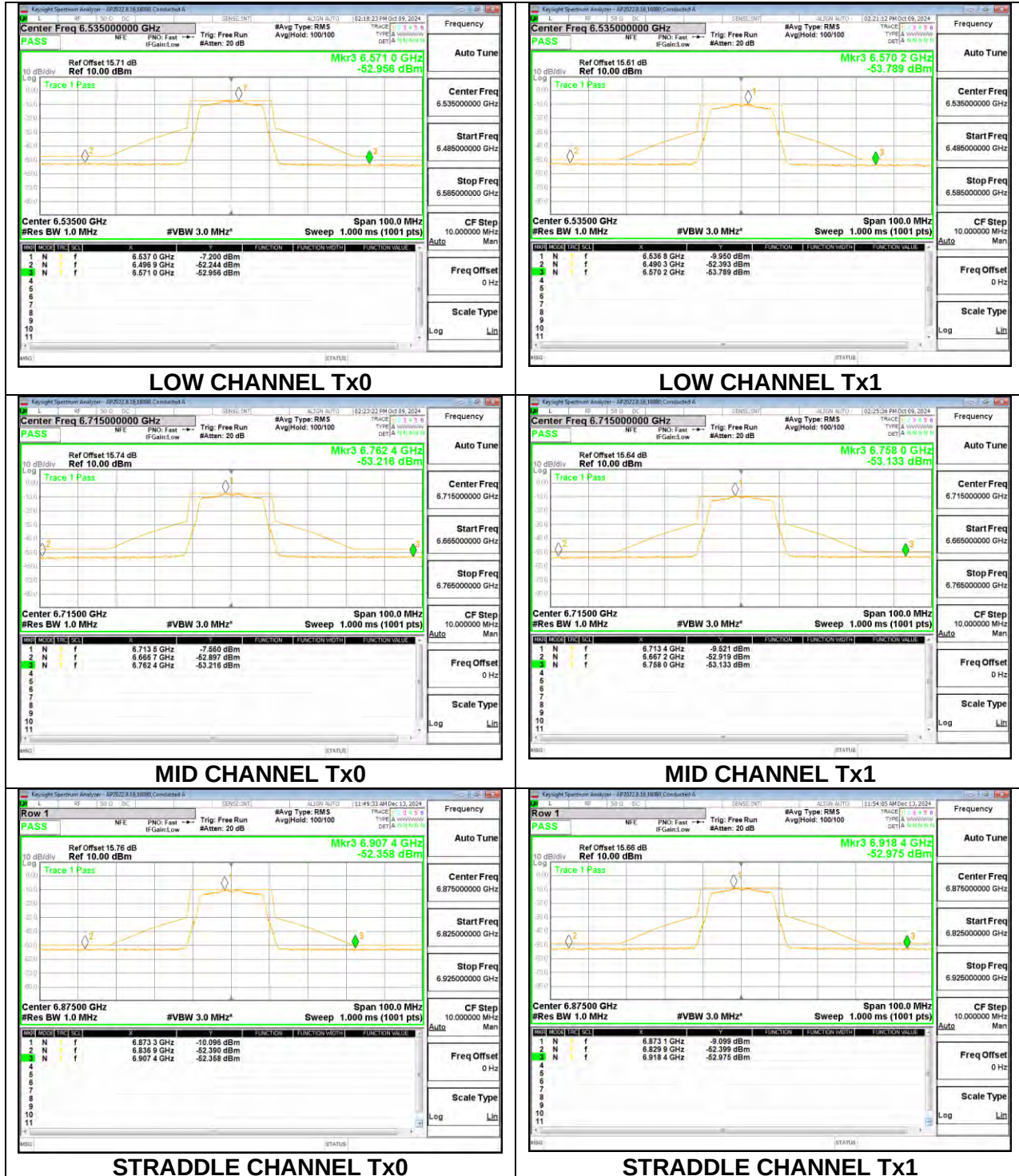
9.4.10. 802.11be EHT160 MODE 2TX IN THE UNII-6

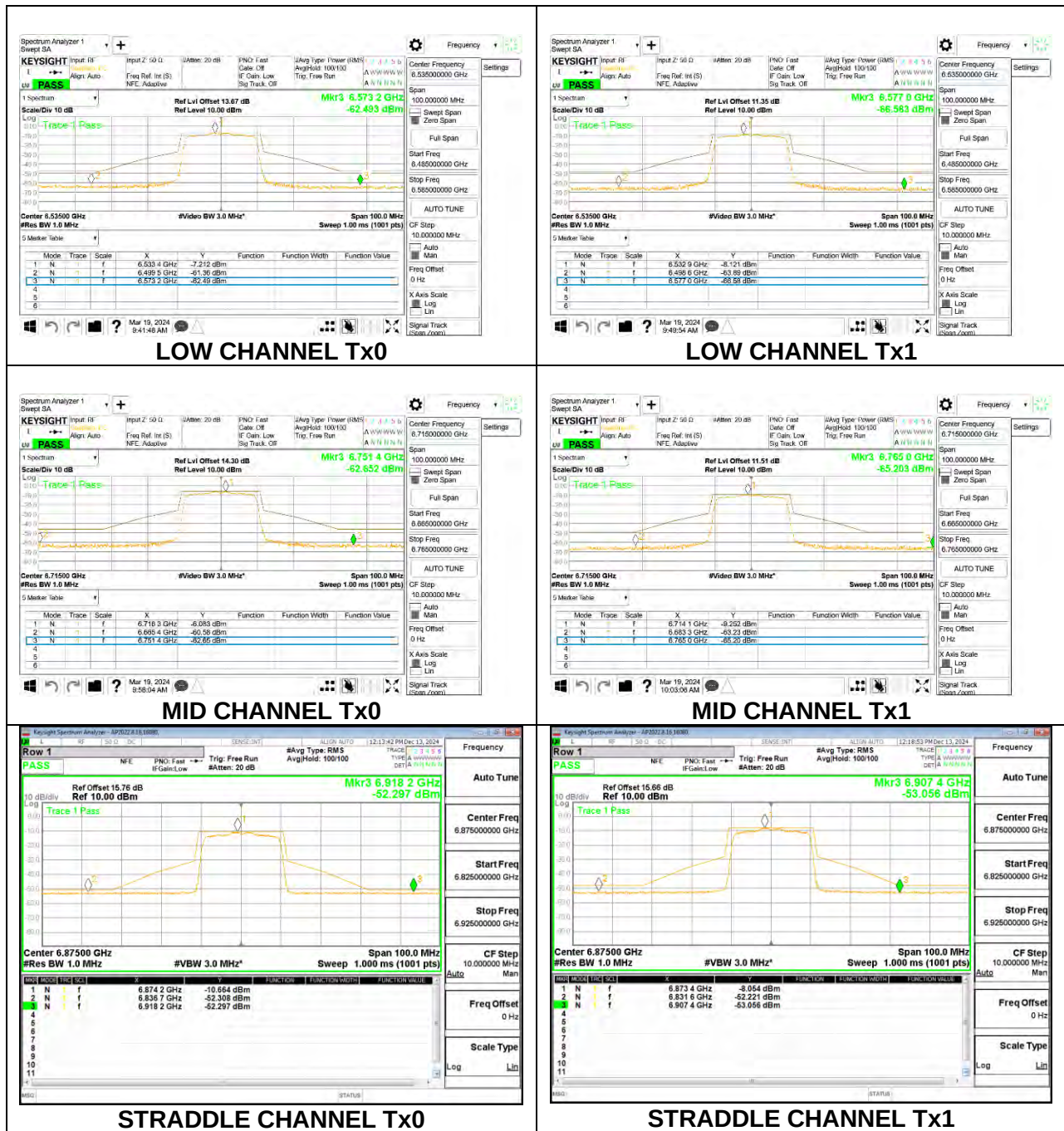
2TX Tx0 + Tx1 OFDMA MODE: SU

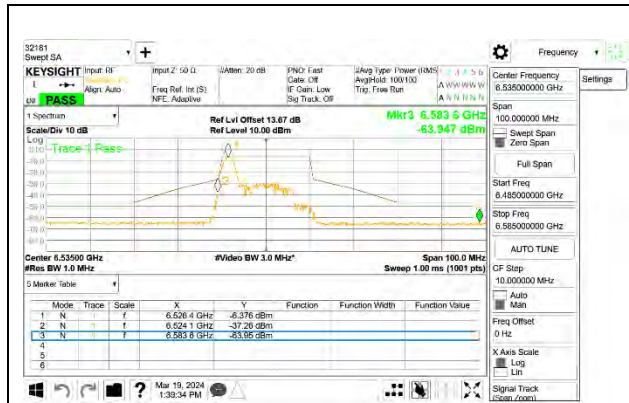


9.4.11. 802.11a MODE 2TX IN THE UNII-7

2TX Tx0 + Tx1 CDD



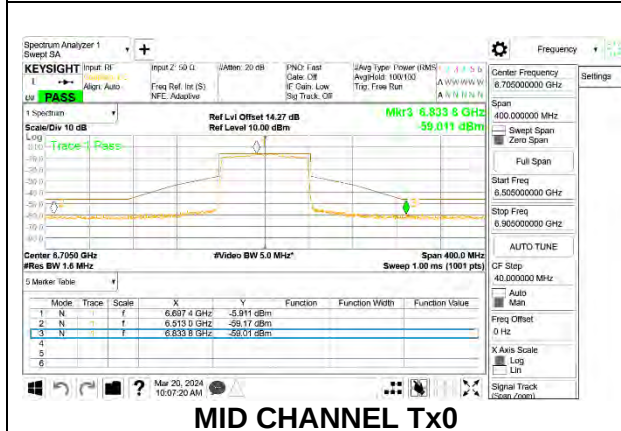
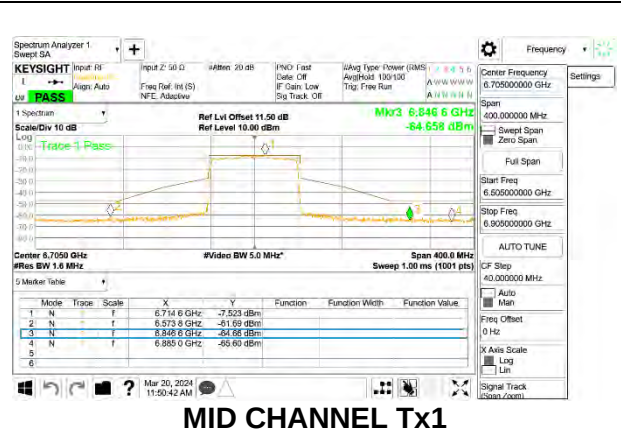
9.4.12. 802.11be EHT20 MODE 2TX IN THE UNII-7**2TX Tx0 + Tx1 OFDMA MODE: 242T, RU Index 61**

2TX Tx0 + Tx1 OFDMA MODE: 26T**LOW CHANNEL Index 0, Tx0****LOW CHANNEL Index 0, Tx1****MID CHANNEL Index 4, Tx0****MID CHANNEL Index 4, Tx1****STRADLE CHANNEL Index 8, Tx0****STRADLE CHANNEL Index 8, Tx1**

9.4.13. 802.11be EHT40 MODE 2TX IN THE UNII-7

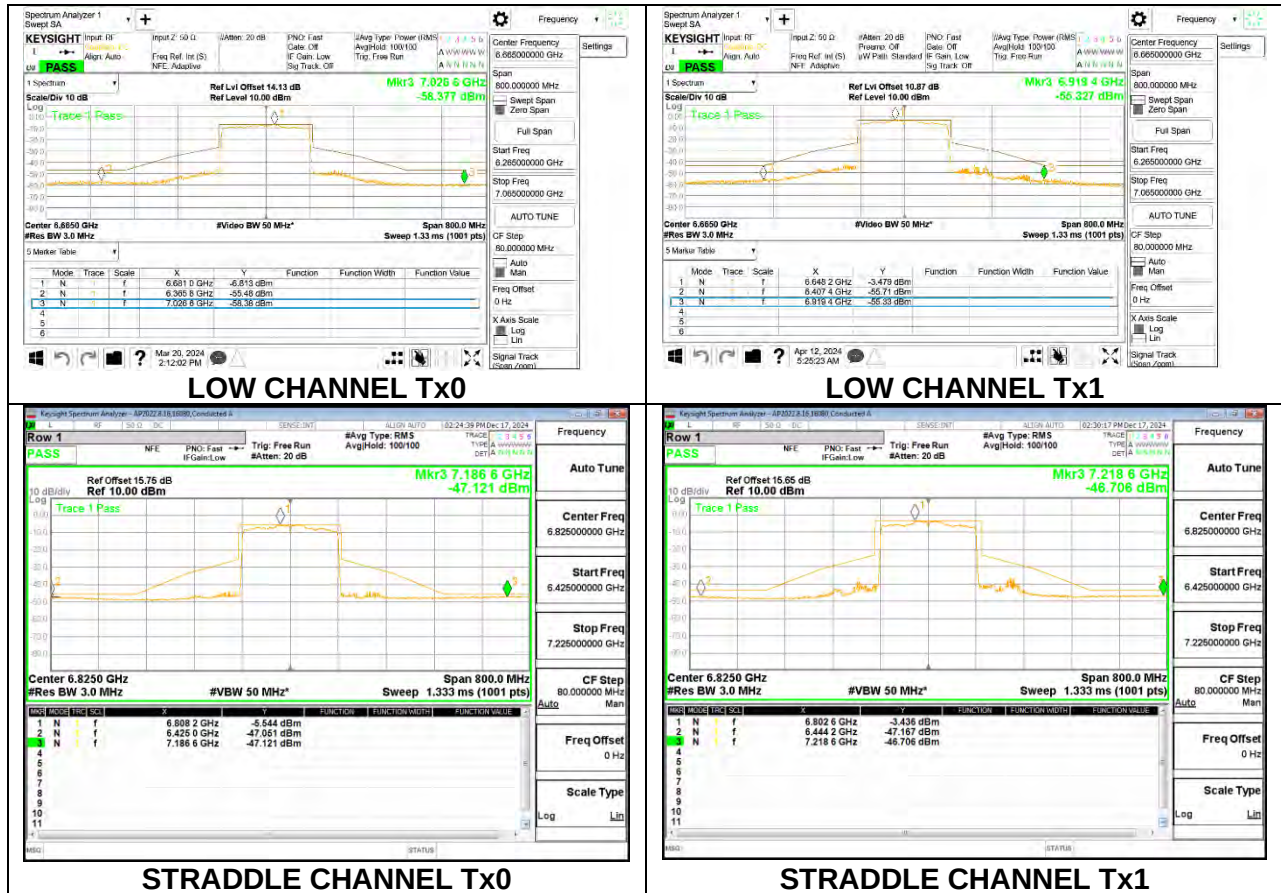
2TX Tx0 + Tx1 OFDMA MODE: 484T, RU Index 65



9.4.14. 802.11be EHT80 MODE 2TX IN THE UNII-7**2TX Tx0 + Tx1 OFDMA MODE: 996T, RU Index 67****STRADDLE CHANNEL Tx0****STRADDLE CHANNEL Tx1****MID CHANNEL Tx0****MID CHANNEL Tx1****STRADDLE CHANNEL Tx0****STRADDLE CHANNEL Tx1**

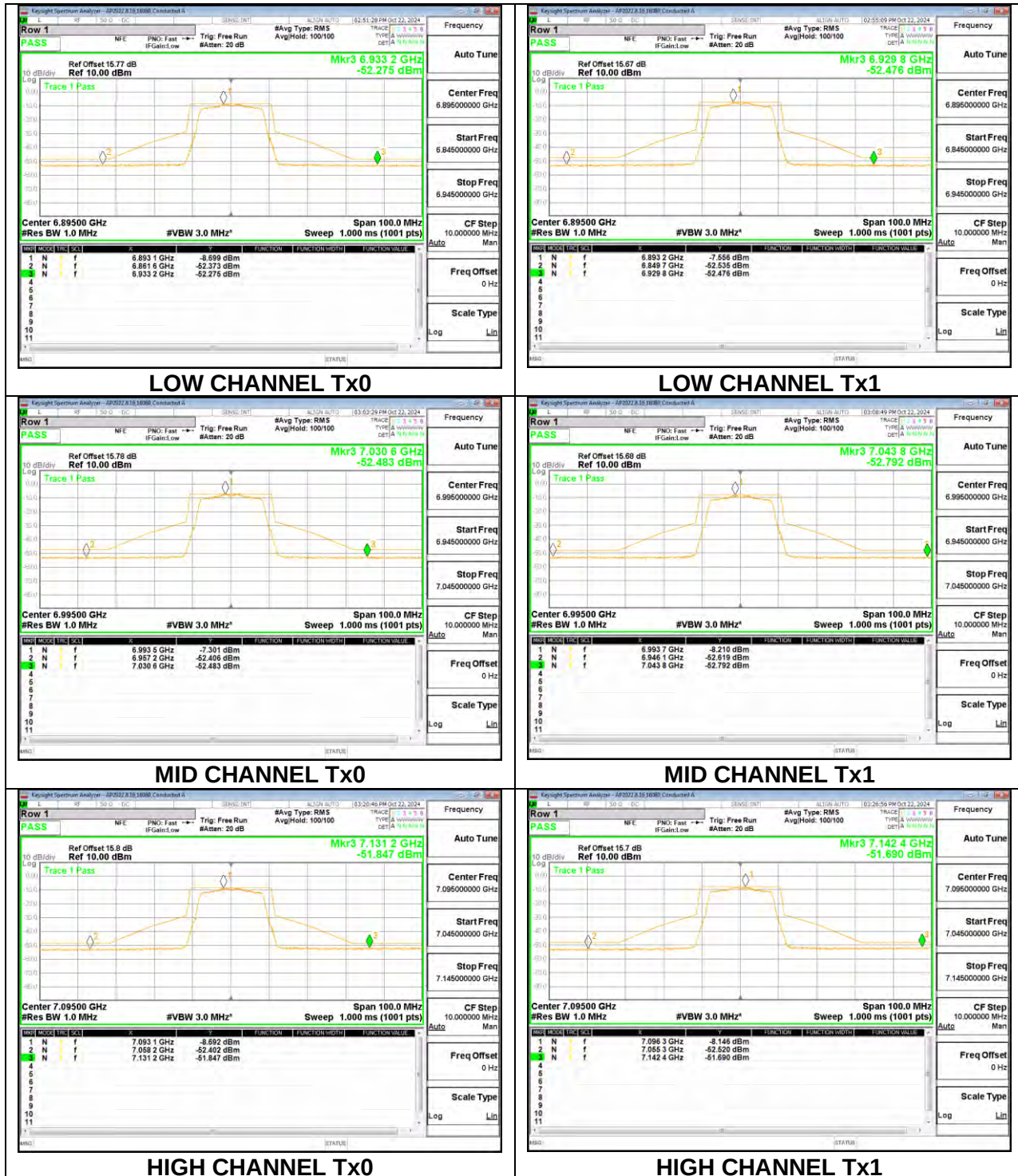
9.4.15. 802.11be EHT160 MODE 2TX IN THE UNII-7

2TX Tx0 + Tx1 OFDMA MODE: SU



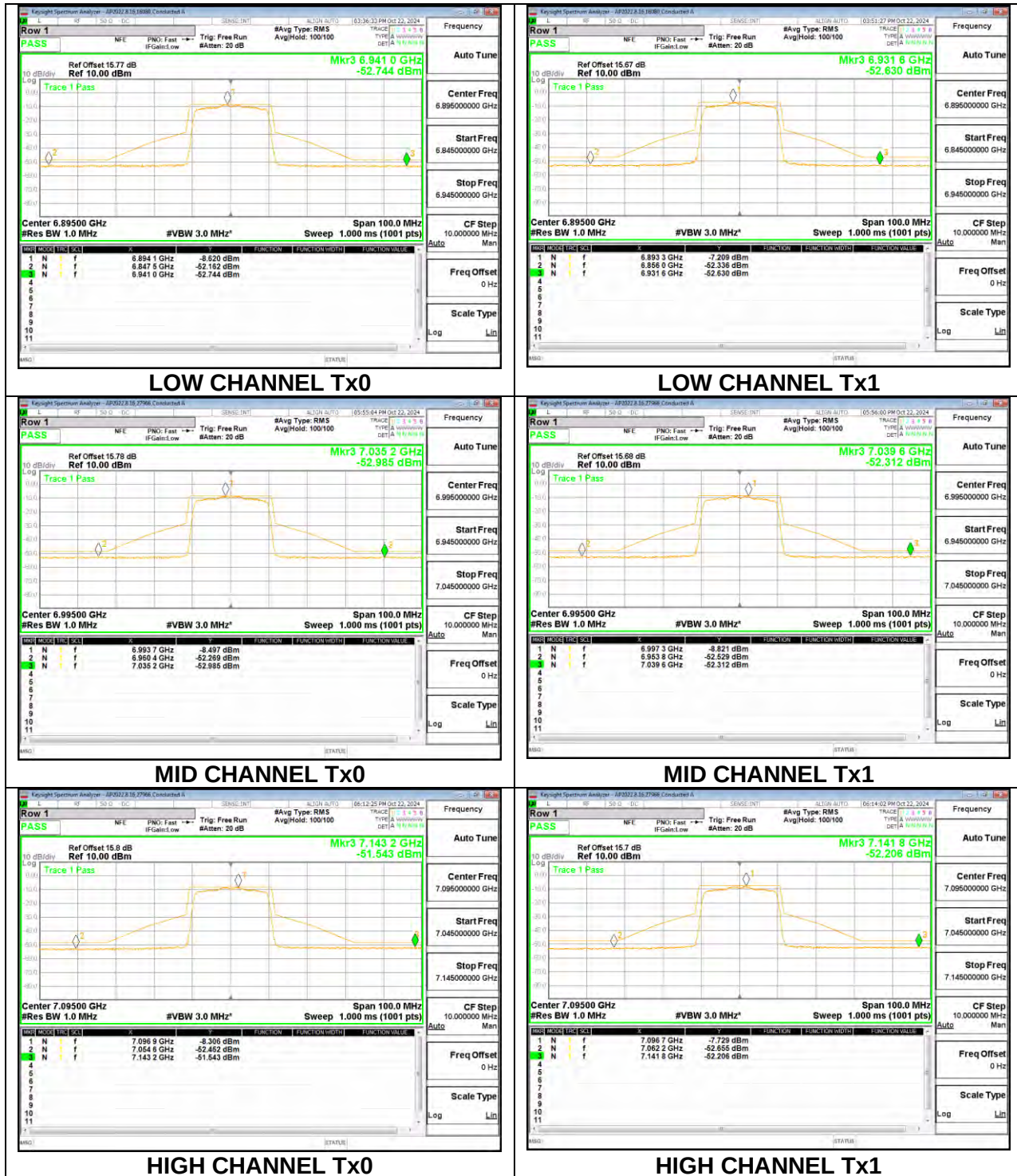
9.4.16. 802.11a MODE 2TX IN THE UNII-8

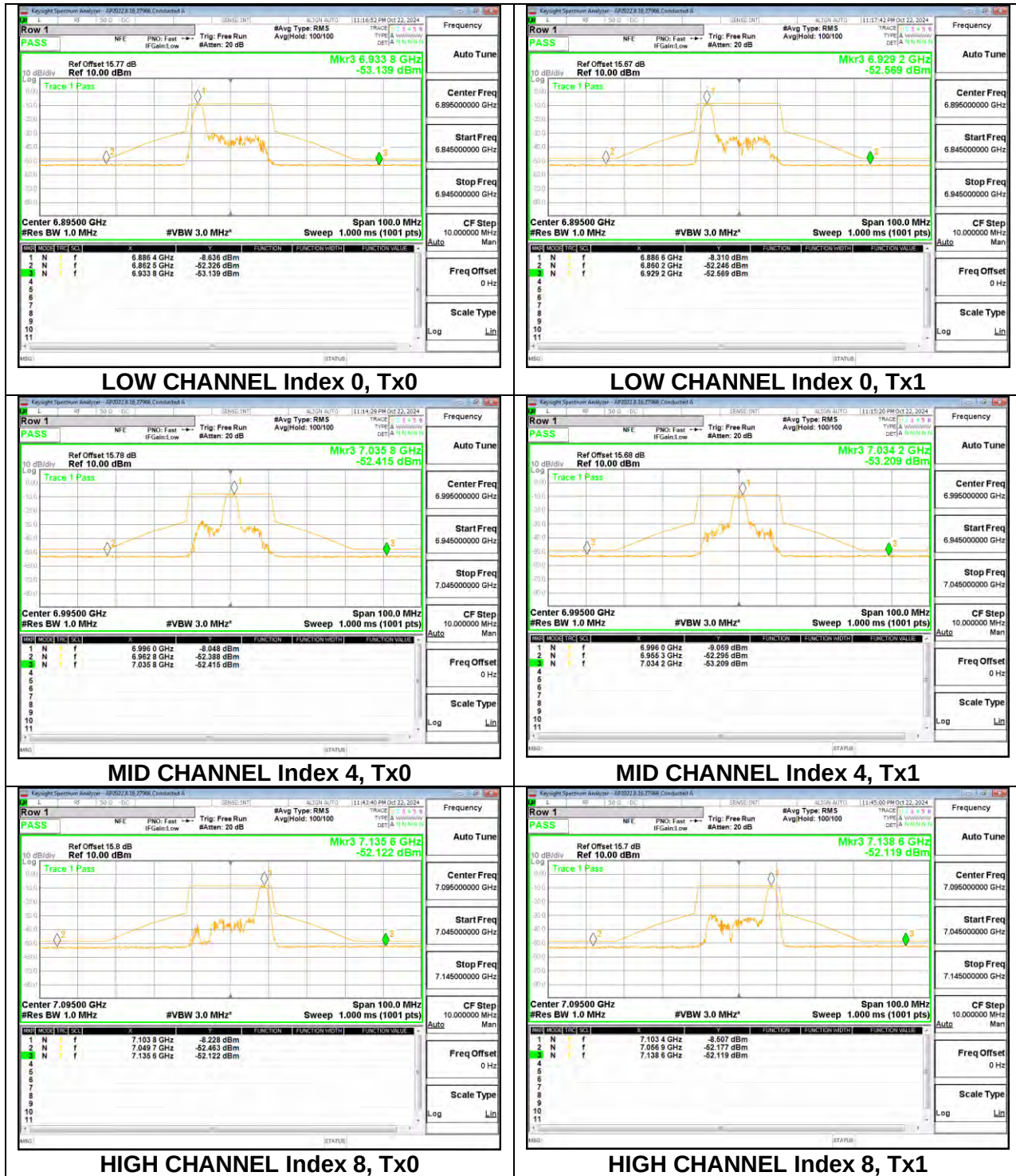
2TX Tx0 + Tx1 CDD



9.4.17. 802.11be EHT20 MODE 2TX IN THE UNII-8

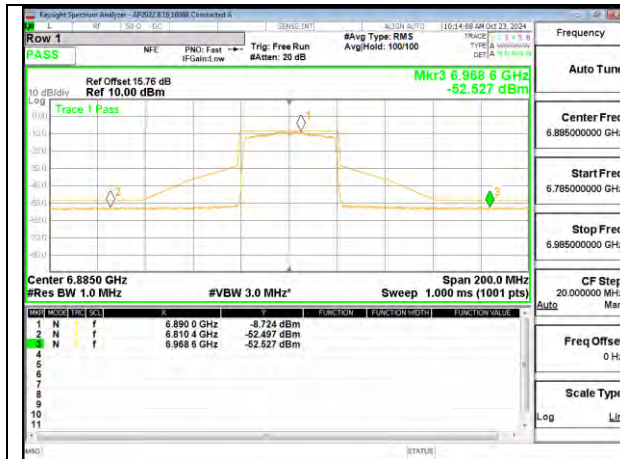
2TX Tx0 + Tx1 OFDMA MODE: 242T, RU Index 61



2TX Tx0 + Tx1 OFDMA MODE: 26T

9.4.18. 802.11be EHT40 MODE 2TX IN THE UNII-8

2TX Tx0 + Tx1 OFDMA MODE: 484T, RU Index 65



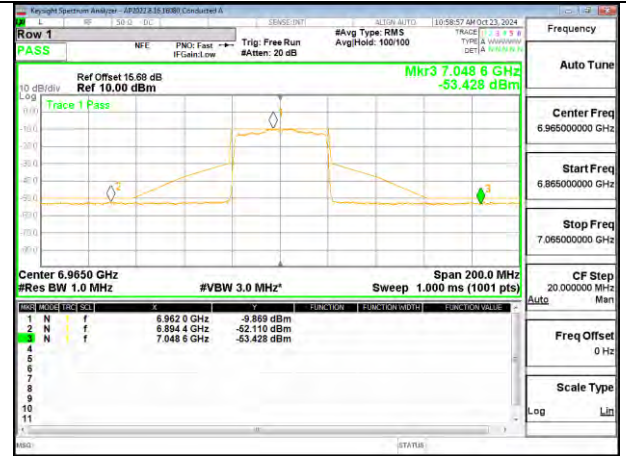
STRADDLE CHANNEL Tx0



STARDLE CHANNEL Tx1



MID CHANNEL Tx0



MID CHANNEL Tx1



HIGH CHANNEL Tx0

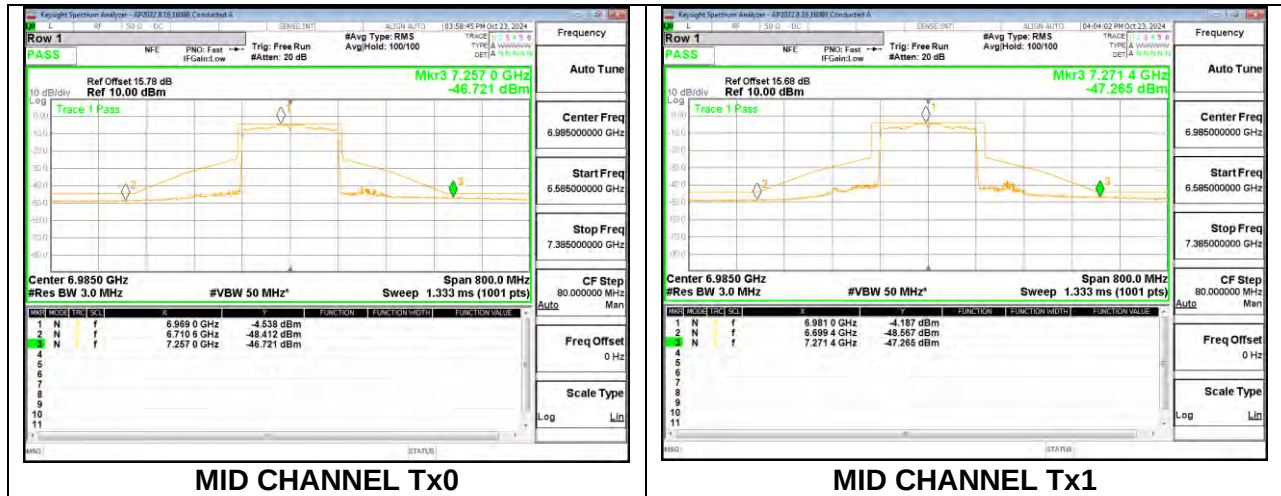


HIGH CHANNEL Tx1

9.4.19. 802.11be EHT80 MODE 2TX IN THE UNII-8

2TX Tx0 + Tx1 OFDMA MODE: 996T, RU Index 67



9.4.20. 802.11be EHT160 MODE 2TX IN THE UNII-8**2TX Tx0 + Tx1 OFDMA MODE: SU**

10. VERY LOW POWER TRANSMIT POWER CONTROL (TPC)

LIMITS

FCC §15.407 (d) (10)

(10) Very low power devices operating in the 5.925-7.125 GHz band shall employ a transmit power control (TPC) mechanism. A very low power device is required to have the capability to operate at least 6 dB below the maximum EIRP PSD value of -5 dBm/ MHz.

TEST PROCEDURE

1. Configure EUT and companion device for peer-to-peer communication (refer to block diagram)
2. Set variable attenuator to 0dB (noise free spectral environment, high RSSI simulation)
3. Establish a link and start communication between EUT and companion device
4. Capture PSD spectrum analyzer trace (2)
5. Set variable attenuator to 40dB (noisy spectral environment, low RSSI simulation)
6. Capture PSD spectrum analyzer trace (1)
7. For MIMO operations use the sum of the highest PSD from each individual antenna

SA Settings: 1MHz RBW/ 3MHz VBW

Span: 30MHz

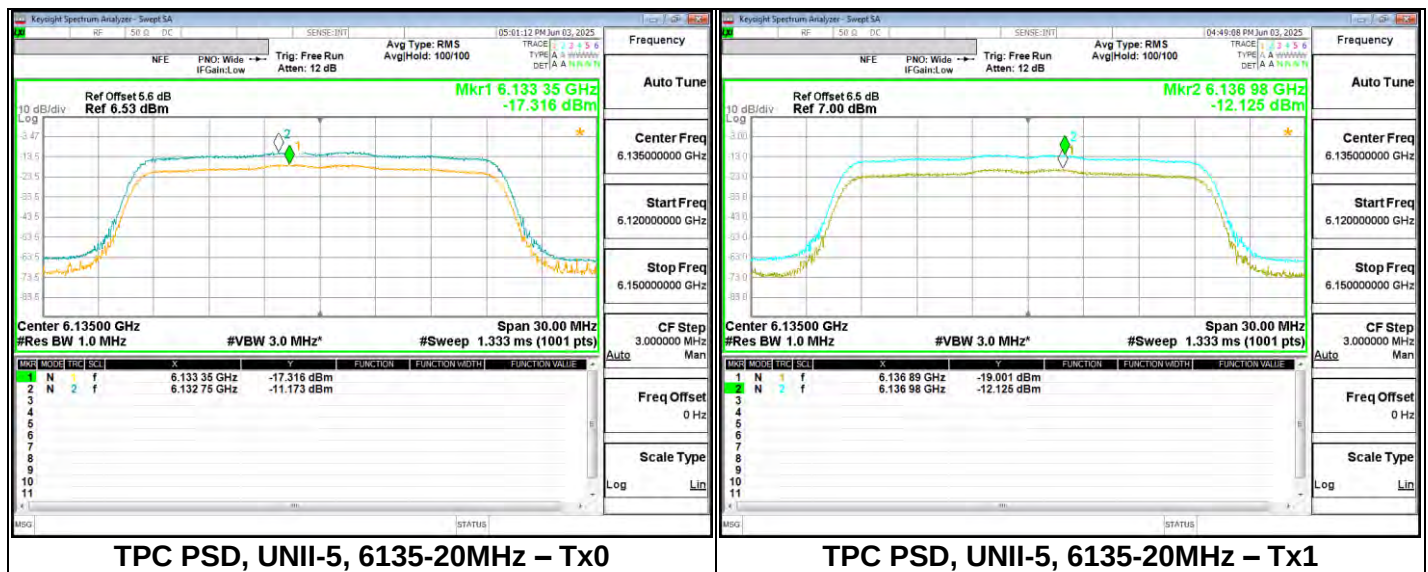
Sweep: 1.333ms, trace averaging enabled for 100 sweeps with RMS detector enabled.

RESULTS

Test Engineer:	GA 12485
Test Date:	2025-06-03

2TX	UNII-5 band						
Correlated Chains Directional Gain (dBi)	-0.58						
DCCF (dB)	0.15						
BW (MHz)	Frequency (MHz)	Tx 0		Tx 1		Tx 0 + Tx 1	
		Trace 2 High RSSI PSD (dBm/MHz)	Trace 1 Low RSSI PSD (dBm/MHz)	Trace 2 High RSSI PSD (dBm/MHz)	Trace 1 Low RSSI PSD (dBm/MHz)	2Tx High RSSI EIRP PSD (dBm/MHz)	2Tx Low RSSI EIRP PSD (dBm/MHz)
20	6135 (CH37)	-11.173	-17.316	-12.125	-19.001	-9.05	-15.50

The antenna gain is correlated gain used for the CDD MIMO mode. The device is compliant with the 2Tx Low RSSI EIRP PSD is less than -11dBm/MHz.

VLP TPC POWER LEVEL REDUCTION

11. DESCRIPTION OF TEST SETUP AND SETUP PHOTOS

Please refer to 15532189-EP1 for test setup description and setup photos

END OF TEST REPORT