

TEST REPORT

Report Number: R15310046-E2

Applicant : Sony Corporation
1-7-1 Konan Minato-ku
Tokyo, 108-0075, Japan

FCC ID : PY7-13187R
PY7-76709C
PY7-54773M
PY7-27433F

EUT Description : GSM/WCDMA/LTE/5G Phone with BT, DTS/UNII a/b/g/n/ac/ax/be,
GPS, WPT & NFC

Test Standard(s) : FCC 47 CFR PART 15 SUBPART E: 2024

Date Of Issue:
2024-07-22

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REPORT REVISION HISTORY

Rev.	Issue Date	Revisions	Revised By
V1	2024-06-20	Initial Issue	Charles Moody
V2	2024-06-27	Added FCC IDs and Made Editorial Changes to Section 6	Charles Moody
V3	2024-07-02	Updated EIRP for 5.3, 5.6, and 5.8 GHz	Charles Moody
V4	2024-07-22	Added FCC ID: PY7-27433F due to similarity to other IDs. Added clarifying information regarding test reduction cases.	Jeff Moser

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: Sony Corporation
1-7-1 Konan Minato-ku
Tokyo, 108-0075, Japan

EUT DESCRIPTION: GSM/WCDMA/LTE/5G Phone with BT, DTS/UNII a/b/g/n/ac/ax/be,
GPS, WPT & NFC

SERIAL NUMBERS: QV7700AVL3, QV7700NWLQ

SAMPLE RECEIPT DATE: 2023-12-26 TO 2024-01-29

DATE TESTED: 2024-06-04 TO 2024-07-02

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart E: 2024	See Section 2

UL LLC 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.

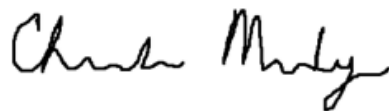
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Approved & Released
For UL LLC By:

Prepared By:



Jeff Moser
Operations Manager
Consumer, Medical and IT Segment
UL LLC



Charles Moody
Engineer
Consumer, Medical and IT Segment
UL LLC

2. TEST RESULT SUMMARY

This report contains data/info provided by the customer which can impact the validity of results. UL LLC is only responsible for the validity of results after the integration of the data provided by the customer.

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

- 1) Antenna gain and type (see section 6.3)
- 2) Worst-case data rates (see section 6.5)

FCC Clause	Requirement	Result	Comment
See Comment	Duty Cycle	Reporting purposes only	Per ANSI C63.10, Section 12.2.
See Comment	26dB BW	Reporting purposes only	Per ANSI C63.10 Sections 6.9.2
15.407 (e)	6 dB BW	Compliant	See Note 1
15.407 (a) (1-3), (h) (1)	Output Power		
15.407 (a) (1-3)	PSD	See Comment	
15.209, 15.205, 15.407 (b)	Radiated Emissions		
15.207	AC Mains Conducted Emissions		

NOTE 1: Full testing of the 5 WLAN radio was performed previously and can be found in UL report R15110020-E5. This report covers the 802.11be portion of testing. 802.11be was compared to 802.11ax and both modes found to behave the same. Section 9 includes a spotcheck comparison between the 802.11ax and 802.11be modes for 26/6dB BW, PSD, and Radiated Spurious/Bandedge emissions. Therefore, 802.11ax under UL report R15110020-E5 can represent 802.11be RU data.

Additionally, full testing for 802.11be (MRU only) output power, 26/6dB BW and Radiated Bandedge was performed and found to be **compliant**.

3. TEST METHODOLOGY

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

- FCC 47 CFR Part 2
- FCC 47 CFR Part 15,
- FCC KDB 662911 D01 v02r01,
- FCC KDB 905462 D06 v02
- FCC KDB 789033 D02 v02r01,
- KDB 414788 D01 Radiated Test Site v01r01
- ANSI C63.10-2020

4. FACILITIES AND ACCREDITATION

UL LLC is accredited by A2LA, certification # 0751.06, 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: 12 Laboratory Dr RTP, NC 27709, U.S.A	US0067	2180C	825374
☒	Building: 2800 Perimeter Park Dr. Suite B Morrisville, NC 27560, U.S.A		27265	

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)	141.2 Hz
Occupied Channel Bandwidth	1.22%
RF output power, conducted	1.3 dB (PK) 0.45 dB (AV)
Power Spectral Density, conducted	2.47 dB
Unwanted Emissions, conducted	1.94 dB
All emissions, radiated	6.01 dB

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

RADIATED EMISSIONS

Where relevant, the following sample calculation is provided:

Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB)
36.5 dBuV + 18.7 dB/m + 0.6 dB – 26.9 dB = 28.9 dBuV/m

6. EQUIPMENT UNDER TEST

6.1. EUT DESCRIPTION

The EUT is a GSM/WCDMA/LTE/5G Phone with BT, DTS/UNII a/b/g/n/ac/ax/be, GPS, WPT & NFC. This report covers the 5GHz bands testing requirements of the EUT.

6.2. MAXIMUM OUTPUT POWER

The transmitter has a maximum conducted output power as follows:

Note – The following is 802.11be MRU Data, only. All other 5.2-5.8 GHz formal power data is found under FCC ID: PY7-13187R, UL Report No. R15110020-E5.

5.2 GHz BAND

Frequency Range (MHz)	Mode	Output Power (dBm)	Output Power (mW)
5.2 GHz band, 2TX			
5180-5240	802.11be EHT20	14.06	25.47
5210	802.11be EHT20	13.80	23.99

5.3 GHz BAND

Frequency Range (MHz)	Mode	Output Power (dBm)	Output Power (mW)
5.3 GHz band, 2TX			
5260 - 5320	802.11be EHT20	14.16	26.06
5290	802.11be EHT80	13.58	22.80
5250	802.11be EHT160	14.08	25.59

5.6 GHz BAND

Frequency Range (MHz)	Mode	Output Power (dBm)	Output Power (mW)
5.6 GHz band, 2TX			
5500-5720	802.11be EHT20	14.05	25.41
5530-5690	802.11be EHT80	13.62	23.01
5570	802.11be EHT160	12.13	16.33

5.8 GHz BAND

Frequency Range (MHz)	Mode	Output Power (dBm)	Output Power (mW)
5.8 GHz band, 2TX			
5745-5825	802.11be EHT20	14.07	25.53
5775	802.11be EHT80	11.96	15.70

6.3. TEST REDUCTIONS CASES

Radiated Spurious Emisissions from 1-18 GHz were performed on the worst-case 802.11ax mode while transmitting at 802.11be. This was found to be 52T at 5200, 5300, 5700 and 5785 MHz. Additionally, the worst-case multi-RU 802.11be mode, based on worst-case average power, was tested. This was found to be 52+26T at 5200, 5580 and 5785 MHz, as well as 484T+996T (Non-Contiguous) at 5250 MHz.

Radiated Band Edge Emissions were performed on the worst-case 802.11ax mode while transmitting at 802.11be. This was found to be 2x996T at 5250 MHz (Low and High Bandedge) and 5570 MHz, and 996T at 5775 MHz. Additionally, all multi-RU modes were tested at low and high channels across all 5 GHz frequency bands.

26dB BW was tested at the worst-case 802.11ax mode while transmitting at 802.11be in the 5.2, 5.3 and 5.6 band. This was found to be 26T at 5180 MHz, 26T at 5300 MHz, and 26T at 5580 MHz. Additionally, all multi-RU modes were tested at low, middle and high channels across the 5.2, 5.3 and 5.6 band.

Full output power was taken at all 802.11be multi-RU modes as well as a spotcheck between the worst case 802.11ax mode while transmitting at 802.11be. This was found to be 242T at 5200 MHz, 242T at 5300 MHz, 242T at 5700 MHz and HT20 SU at 5785 MHz.

PSD was tested at the worst-case 802.11ax mode while transmitting at 802.11be. This was found to be 52T at 5200, 5260, 5700 and 5745 MHz. No additional PSD testing was performed as all multi-RU modes have a larger bandwidth than non-multi-RU and therefore, the non-multi-RU can be considered worst case.

Due to preliminary investigations and similarity of the 802.11ax vs 802.11be results of the above test data, full emissions testing of the 5 GHz WLAN radio for worst case Radiated emissions below 1GHz, above 18GHz, power line conducted emissions and full conducted testing were leveraged from the 802.11ax report, R15110020-E5.

6.4. DESCRIPTION OF AVAILABLE ANTENNAS

Chain	Designation in Documentation	Type	Frequency Range (MHz)	Maximum Gain (dBi)
0	WiFi Main	Loop	5180-5320	-1.11
			5500-5720	-0.63
			5725-5850	-0.84
1	WiFi Sub	Monopole	5180-5320	-2.21
			5500-5720	-0.97
			5725-5850	-0.73

6.5. SOFTWARE AND FIRMWARE

The firmware version used during testing was 0.220.

6.6. WORST-CASE CONFIGURATION AND MODE

WORST-CASE CONFIGURATION AND MODE FOR FINAL TEST

Please refer to UL Report number: R15110020-E5 for the full emissions testing of the 5 WLAN radio for worst case Radiated emissions below 1GHz, above 18GHz, power line conducted emissions, radiated emissions, and full conducted testing. This report only covers the 802.11be portion of testing as described in Section 2 and Section 6.3.

The fundamental of the EUT was investigated in three orthogonal orientations X,Y,Z, it was determined that Z orientation was worst-case orientation; therefore, all final radiated testing was performed with the EUT in Z orientation.

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

- 802.11be EHT20 modes: MCS0 (Nss = 1)
- 802.11be EHT40 modes: MCS0 (Nss = 1)
- 802.11be EHT80 modes: MCS0 (Nss = 1)
- 802.11be EHT160 modes: MCS0 (Nss = 1)

Based on pretesting, all testing performed in 2Tx mode (Nss=1), where power per chain is equivalent to the 1Tx power on each chain. This allows 2Tx testing to cover all 1Tx testing.

6.7. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
Power Adapter	Sony	XQZ-UC1	3223W09206247	--
Headphones	Sony	--	--	--
Support Laptop	Lenovo	Yoga 7 16IAP7	PF49WDF9	--

I/O CABLES

I/O Cable List						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	USB	1	USB-C	USB	<3M	Connects EUT to Power Adapter
2	3.5mm	1	AUX	Non-Shielded	<3M	Connected to Headphones

TEST SETUP

The EUT is connected to a support laptop prior to testing to configure the radio. Test software exercised the radio card. For testing, the EUT was connected to the power adapter.

SETUP DIAGRAMS

Please refer to R15310046-EP1 for setup diagrams

7. MEASUREMENT METHOD

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

26 dB Emission BW: KDB 789033 D02 v02r01, Section C.1

6 dB Emission BW: KDB 789033 D02 v02r01, Section C.2

Conducted Output Power: KDB 789033 D02 v02r01, Section E.3.b (Method PM-G)

Power Spectral Density: KDB 789033 D02 v02r01, Section F

Unwanted emissions in restricted bands: KDB 789033 D02 v02r01, Sections G.3, G.5, and G.6.

Unwanted emissions in non-restricted bands: KDB 789033 D02 v02r01, Sections G.3 and G.5.

8. TEST AND MEASUREMENT EQUIPMENT

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

Test Equipment Used – Antenna Port Conducted Emissions Test Equipment:

Equipment ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
90411	Spectrum Analyzer	Keysight Technologies	N9030A	2023-08-02	2024-08-02
-	DC Power Supply	Keysight	E3633A	NA	NA
12001	Power Sensor	Boonton	RTP5008	2023-08-01	2024-08-01
11835	Power Sensor	Boonton	RTP5008	2023-08-01	2024-08-01
	Software				
Power Software	Boonton Power Analyzer	Boonton	Version 3.0.13.0	NA	NA
SOFTEMI	Antenna Port Software	UL	Version 2022.8.16, 2024.2.23	NA	NA
	Attenuators				
226561	SMA Coaxial 10dB Attenuator 25MHz-18GHz	CentricRF	C18S2-10	2024-02-29	2025-02-28
226562	SMA Coaxial 10dB Attenuator 25MHz-18GHz	CentricRF	C18S2-10	2024-04-11	2025-04-11
	Cables				
CBL028	SMA Cable	Sucoflex	104PEA	2024-02-16	2025-02-16
CBL029	SMA Cable	Sucoflex	104PEA	2024-02-16	2025-02-16

Test Equipment Used - Radiated Disturbance Emissions Test Equipment (Morrisville – Chamber 1)

Equip. ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
	1-18 GHz				
135143	Double-Ridged Waveguide Horn Antenna, 1 to 18 GHz	ETS Lindgren	3117	2024-02-07	2026-02-07
	Gain-Loss Chains				
91979	Gain-loss string: 1-18GHz	Various	Various	2024-05-08	2025-05-08
	Receiver & Software				
206496	Spectrum Analyzer	Rohde & Schwarz	ESW44	2023-07-19	2024-07-19
SOFTEMI	EMI Software	UL	Version 9.5 (18 Oct 2021)		
	Additional Equipment used				
241205	Environmental Meter	Fisher Scientific	15-077-963	2023-09-05	2025-09-05

Test Equipment Used - Radiated Disturbance Emissions Test Equipment (Morrisville – Chamber 2)

Equip. ID	Description	Manufacturer/Brand	Model Number	Last Cal.	Next Cal.
	1-18 GHz				
86408	Double-Ridged Waveguide Horn Antenna, 1 to 18 GHz	ETS Lindgren	3117	2023-06-19	2025-06-19
	Gain-Loss Chains				
91977	Gain-loss string: 1-18GHz	Various	Various	2024-05-10	2025-05-10
	Receiver & Software				
197954	Spectrum Analyzer	Rohde & Schwarz	ESW44	2024-03-05	2025-03-05
SOFTEMI	EMI Software	UL	Version 9.5 (18 Oct 2021)		
	Additional Equipment used				
200540	Environmental Meter	Fisher Scientific	15-077-963	2023-07-19	2025-07-19

Test Equipment Used - Radiated Disturbance Emissions Test Equipment (Morrisville – Chamber 4)

Equip. ID	Description	Manufacturer/Brand	Model Number	Last Cal.	Next Cal.
	1-18 GHz				
89509	Double-Ridged Waveguide Horn Antenna, 1 to 18 GHz	ETS Lindgren	3117	2023-05-23	2025-05-23
	Gain-Loss Chains				
207640	Gain-loss string: 1-18GHz	Various	Various	2024-05-22	2025-05-22
	Receiver & Software				
197955	Spectrum Analyzer	Rohde & Schwarz	ESW44	2024-04-16	2025-04-16
SOFTEMI	EMI Software	UL	Version 9.5 (18 Oct 2021)		
	Additional Equipment used				
241204	Environmental Meter	Fisher Scientific	15-077-963	2023-09-05	2025-09-05

9. COMPARISON DATA: 802.11ax vs 802.11be

9.1. REFERENCE DETAIL

Equipment Class	Report Title
UNII (5 WLAN)	R15110020-E5 FCC 5 WLAN REPORT

Plots within this report only includes the 802.11be spotcheck data. 802.11ax data included in the table in section 9.2 can be found in the report referenced above.

9.2. DATA COMPARISON

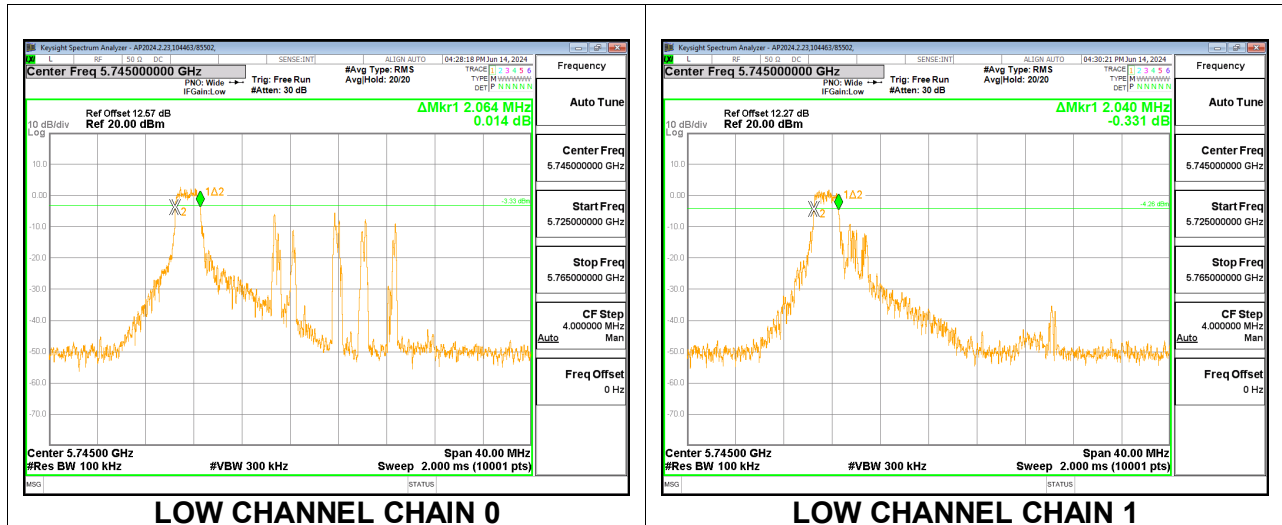
SPOT CHECK RESULTS				
Technology	Test Item	Channel	802.11ax Reading	802.11be Reading
5 WLAN 26T	26dB BW	5180	20.48	20.24
		5300	18.48	18.40
		5580	18.48	18.32
	6dB BW	5745	1.98	2.04
5 WLAN 242T	Pk Power	5200	22.28	22.07
	Av Power		14.07	13.98
	Pk Power	5300	22.36	22.27
	Av Power		14.16	14.09
	Pk Power	5700	22.42	22.15
	Av Power		14.18	13.91
	Pk Power	5785	19.95	19.56
	Av Power		14.08	13.75
5 WLAN 52T	PSD	5200	9.51	9.90
		5260	9.21	9.62
		5700	9.89	9.90
		5745	6.76	6.65
	RSE	5200	47.69	47.55
	RSE	5300	39.76 (AV)	40.77 (AV)
	RSE	5700	47.79	47.63
	RSE	5785	47.78	47.45
5 WLAN 2x996T	RBE	5250 (Low)	37.94 (Av)	40.11 (Av)
	RBE	5250 (High)	36.91 (Av)	39.38 (Av)
	RBE	5570 (High)	51.04 (Pk)	62.52 (Pk)
5 WLAN 996T	RBE	5775 (High)	-46.36 (EIRP)	-47.22 (EIRP)

26 dB BANDWIDTH



Worst case (lowest bandwidth) 26dB Bandwidth data for each 5 GHz band, is included in the table in section 9.2.

6dB BANDWIDTH



Worst case (lowest bandwidth) 6dB Bandwidth data is included in the table in section 9.2.

POWER SPECTRAL DENSITY

2TX CHAIN 0 + CHAIN 1 MODE: 52T (5.2 Band)

Test Engineer:	104463/85502, 104412/21193
Test Date:	2024-06-05

Antenna Gain and Limits

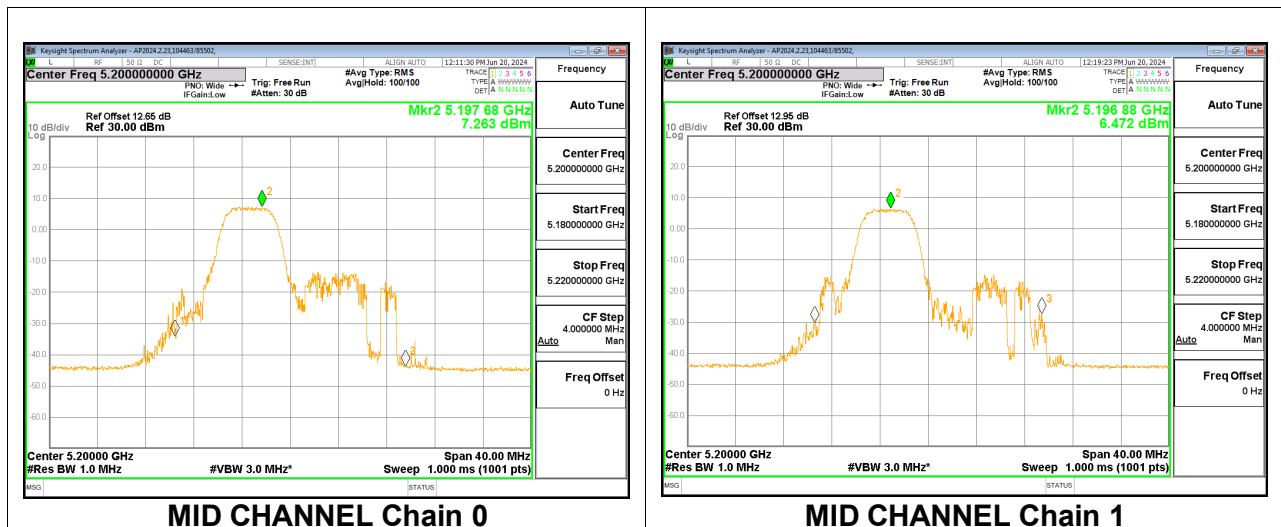
Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm/1MHz)
Mid	5200	-1.63	1.37	24.00	11.00

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd PSD
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PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/1MHz)	Chain 1 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Mid	5200	7.26	6.47	9.90	11.00	-1.10

MID



2TX CHAIN 0 + CHAIN 1 MODE: 52T (5.3 Band)

Test Engineer:	104463/85502
Test Date:	2024-06-14

Bandwidth, Antenna Gain, and Limits

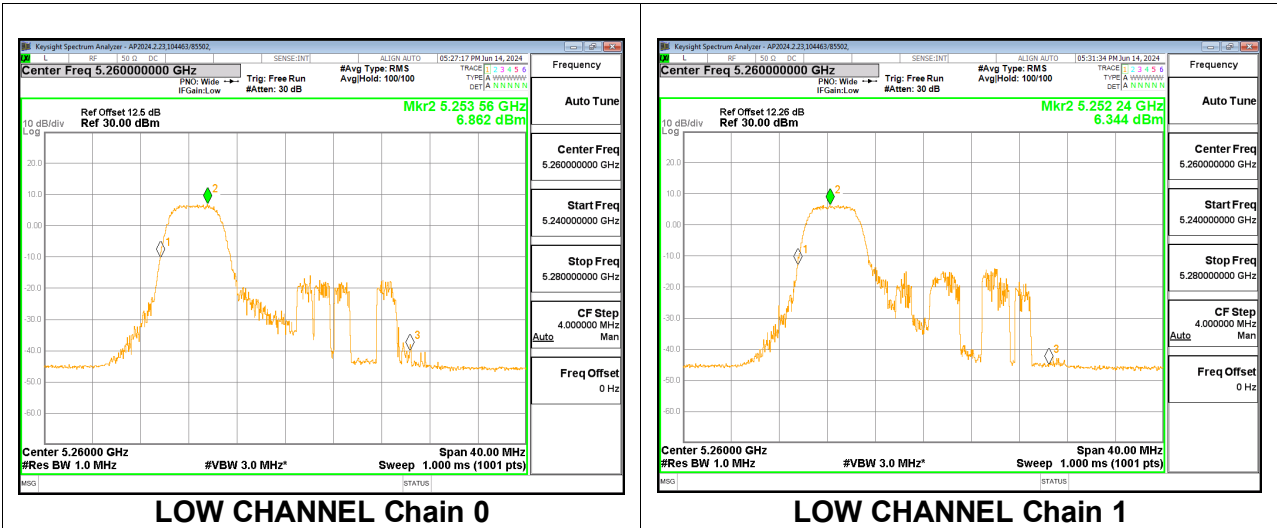
Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm/1MHz)
Low	5260	20.56	-1.63	1.37	24.00	11.00

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd PSD
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PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/1MHz)	Chain 1 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Low	5260	6.86	6.34	9.62	11.00	-1.38

LOW



**NOTE: 26dB Bandwidth measurement used for calculating limit is not included in report, but was taken for reference.

2TX CHAIN 0 + CHAIN 1 MODE: 52T (5.6 Band)

Test Engineer:	104463/85502
Test Date:	2024-06-14

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
High	5700	20.72	-0.80	2.21	24.00	11.00

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd PSD
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PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 1MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
High	5700	7.20	6.56	9.90	11.00	-1.10

HIGH



****NOTE:** 26dB Bandwidth measurement used for calculating limit is not included in report, but was taken for reference.

2TX CHAIN 0 + CHAIN 1 MODE: 52T (5.8 Band)

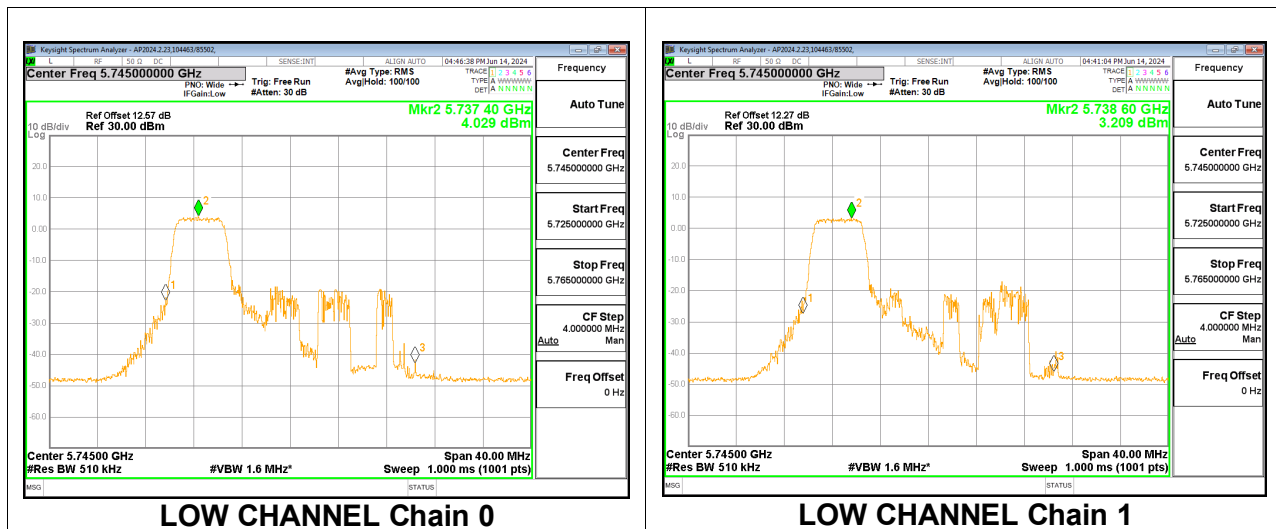
Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBm)	FCC/ISED Power Limit (dBm)	FCC/ISED PSD Limit (dBm/ 500KHz)
Low	5745	-0.78	2.23	30.00	30.00

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD
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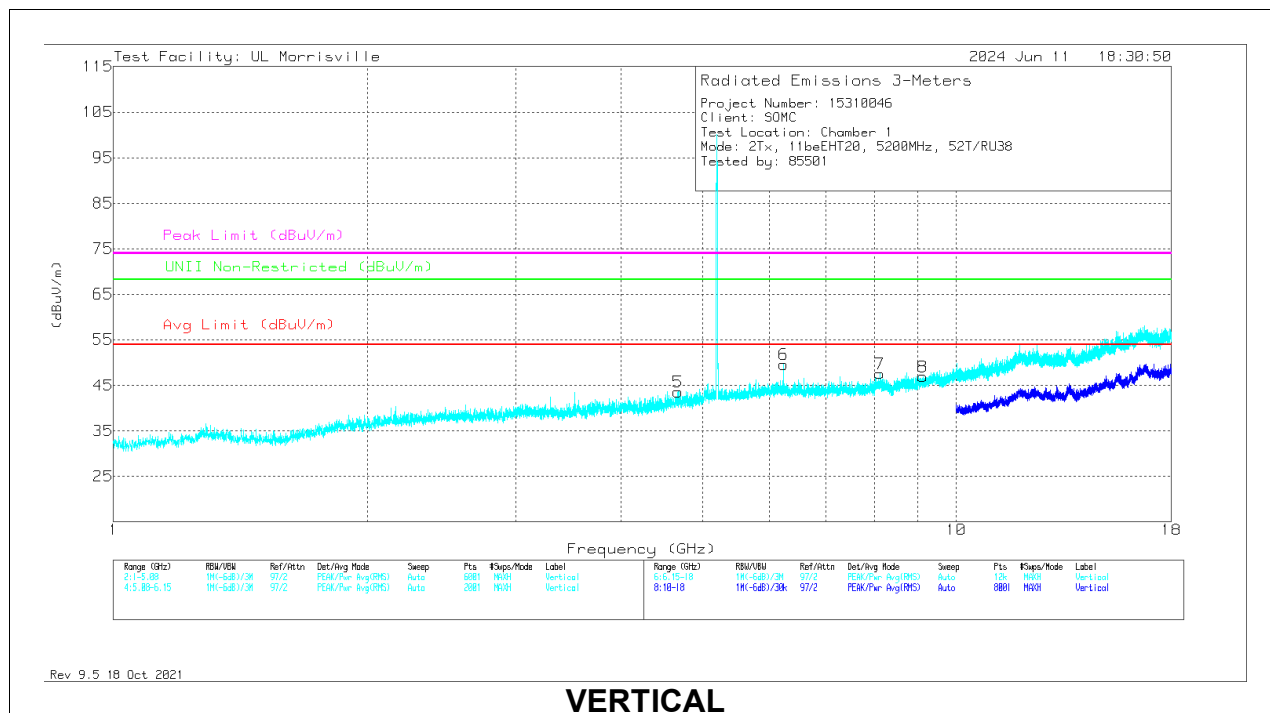
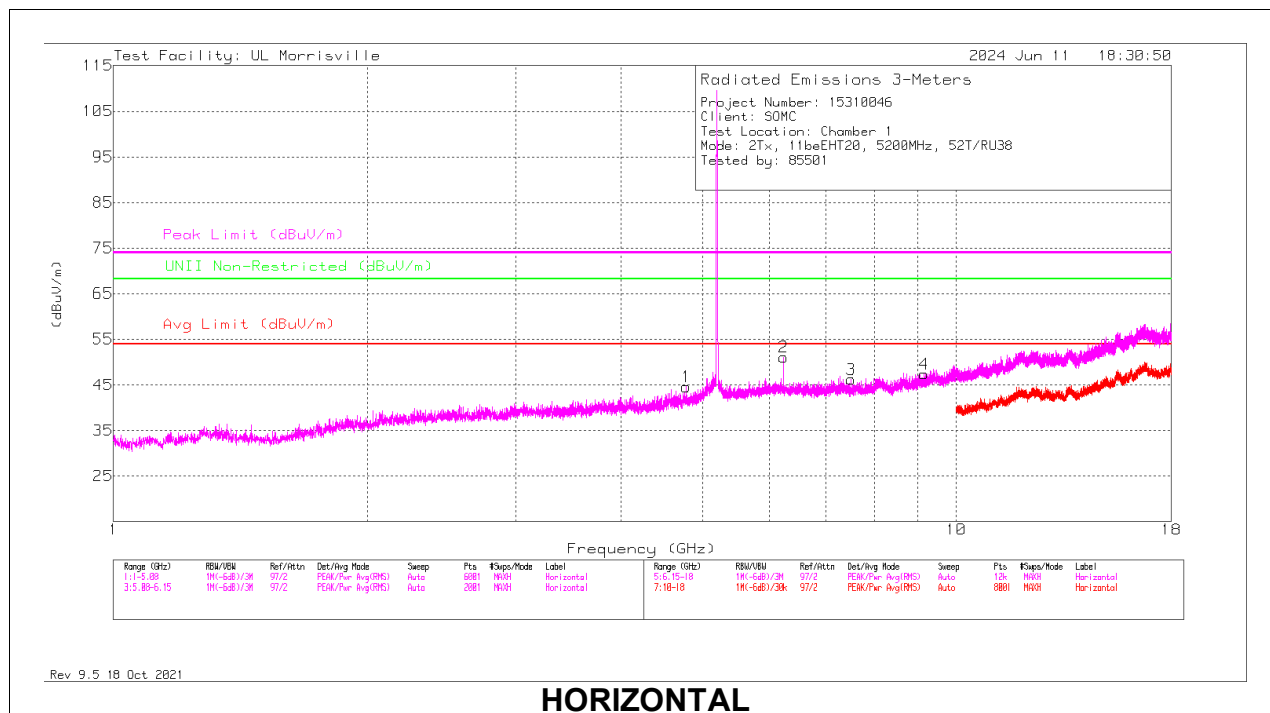
PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 500KHz)	Chain 1 Meas PSD (dBm/ 500KHz)	Total Corr'd PSD (dBm/ 500KHz)	PSD Limit (dBm/ 500KHz)	PSD Margin (dB)
Low	5745	4.029	3.209	6.649	30.00	-23.35



RADIATED SPURIOUS EMISSIONS HARMONICS AND SPURIOUS EMISSIONS 5.2 BAND (52T)

MID CHANNEL



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	89509 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 4.78216	40.37	Pk	34.1	-29.9	44.57	54	-9.43	74	-29.43	-	-	0-360	100	H
5	* ** 4.67404	40.25	Pk	34.1	-30.8	43.55	54	-10.45	74	-30.45	-	-	0-360	200	V
3	* ** 7.50485	38.29	Pk	35.6	-27.7	46.19	54	-7.81	74	-27.81	-	-	0-360	100	H
4	* ** 9.15496	36.29	Pk	36.3	-25.2	47.39	54	-6.61	74	-26.61	-	-	0-360	100	H
7	* ** 8.11414	38.35	Pk	35.8	-26.6	47.55	54	-6.45	74	-26.45	-	-	0-360	200	V
8	* ** 9.12633	35.69	Pk	36.3	-25.1	46.89	54	-7.11	74	-27.11	-	-	0-360	200	V
2	6.23986	43.86	Pk	35.4	-28.2	51.06	-	-	-	-	68.2	-17.14	0-360	100	H
6	6.23986	42.4	Pk	35.4	-28.2	49.6	-	-	-	-	68.2	-18.6	0-360	200	V

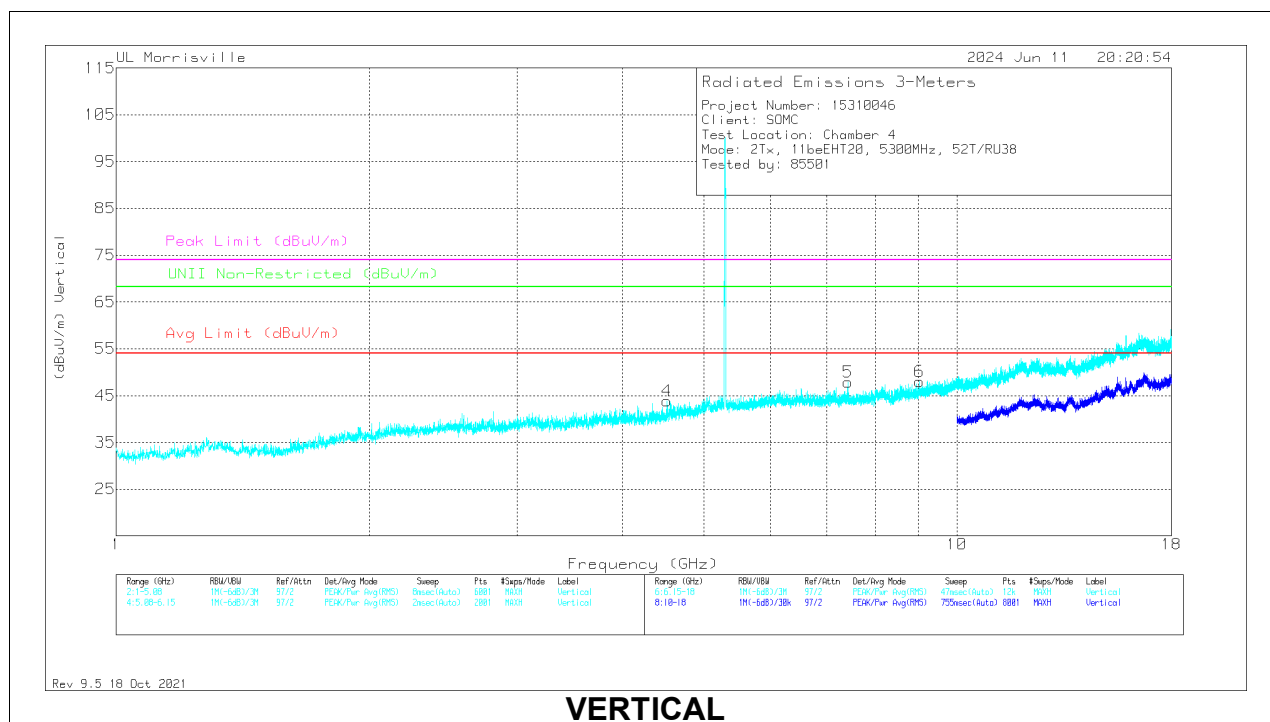
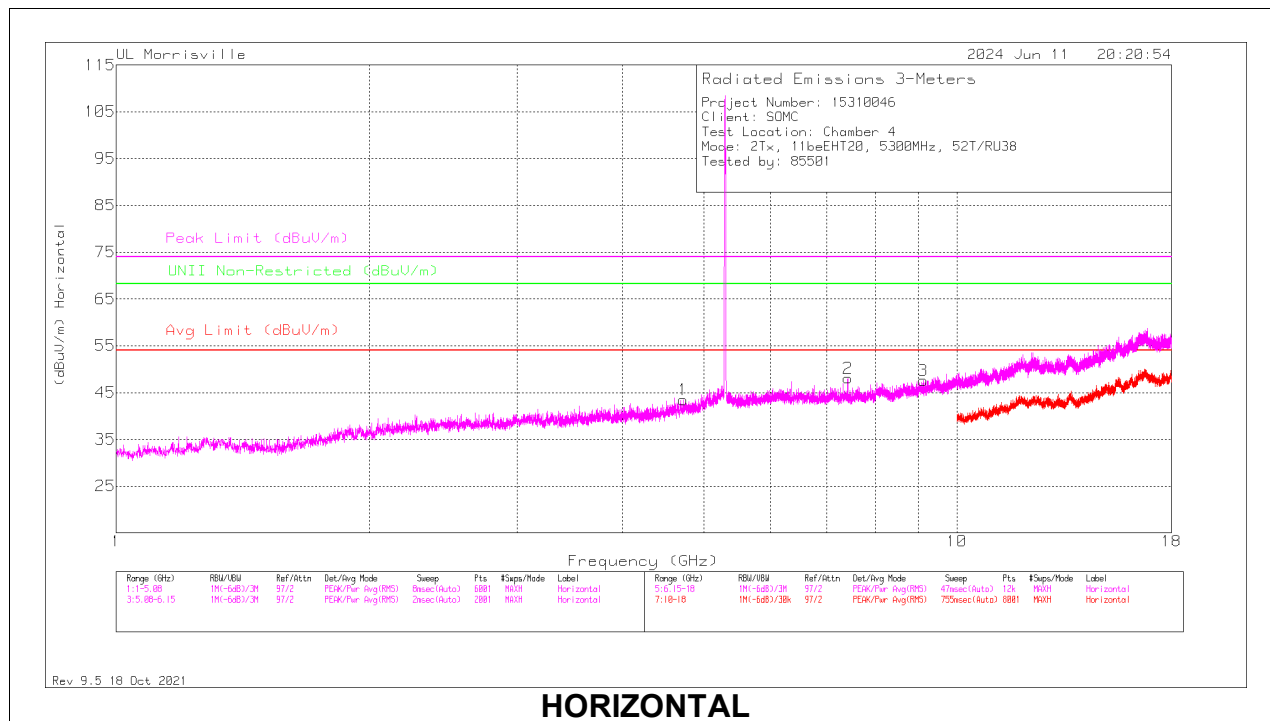
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS 5.3 BAND (52T)

MID CHANNEL



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	89509 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 4.72708	40.53	Pk	34	-31.1	43.43	54	-10.57	74	-30.57	0-360	100	H
4	* ** 4.51968	41.14	Pk	33.8	-31.1	43.84	54	-10.16	74	-30.16	0-360	200	V
2	* ** 7.41827	43.97	PK-U	35.6	-27.3	52.27	-	-	74	-21.73	337	215	H
	* ** 7.41642	32.37	ADV	35.6	-27.2	40.77	54	-13.23	-	-	337	215	H
3	* ** 9.11744	36.46	Pk	36.3	-25.2	47.56	54	-6.44	74	-26.44	0-360	100	H
5	* ** 7.41696	39.45	Pk	35.6	-27.2	47.85	54	-6.15	74	-26.15	0-360	200	V
6	* ** 9.03146	37	PK-U	36.2	-24.9	48.3	-	-	74	-25.7	304	195	V
	* ** 9.03278	24.41	ADV	36.2	-25	35.61	54	-18.39	-	-	304	195	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

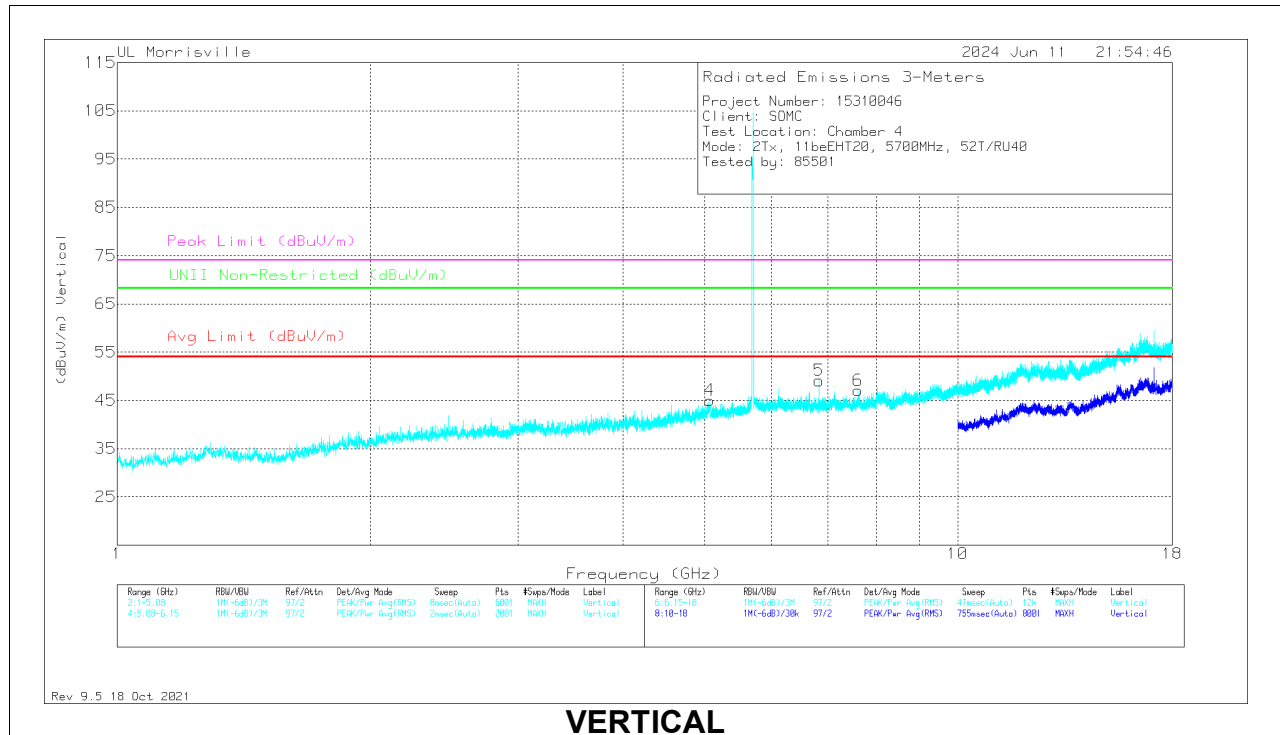
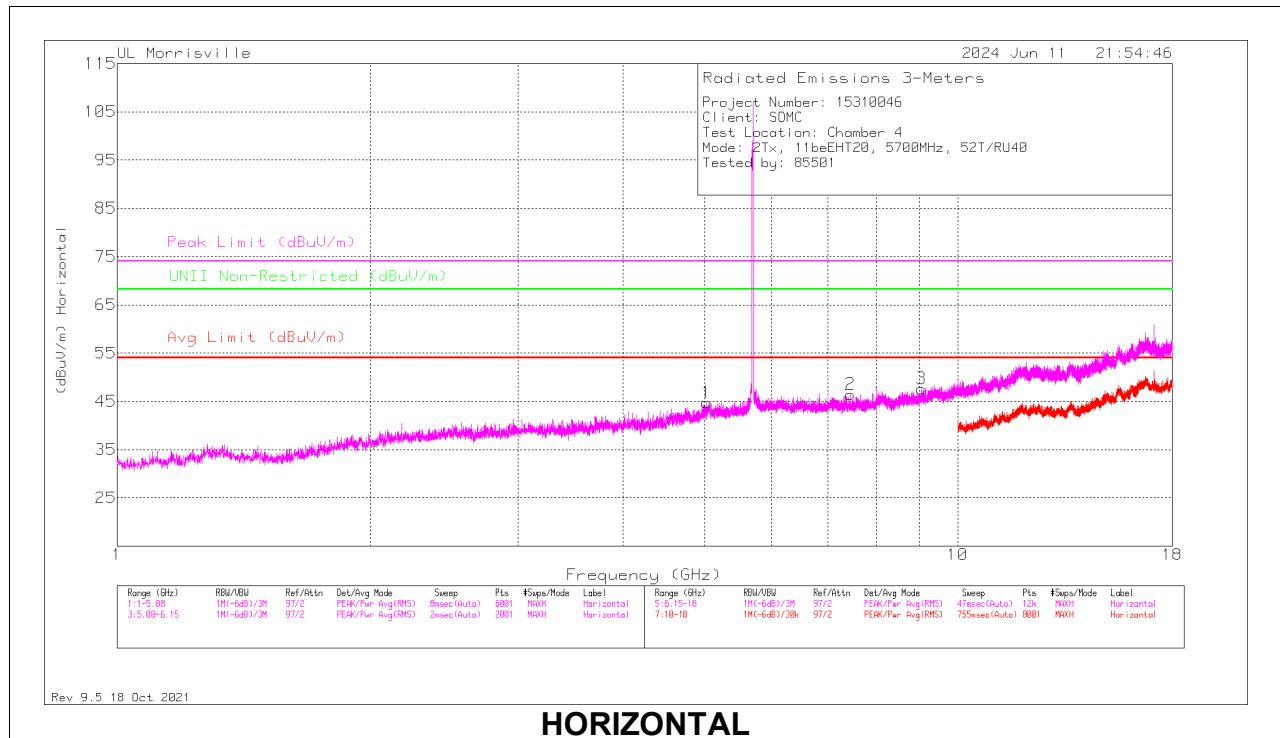
Pk - Peak detector

PK-U - Maximum Peak

ADV - Linear Voltage Average

HARMONICS AND SPURIOUS EMISSIONS 5.6 BAND (52T)

HIGH CHANNEL



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	89509 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 5.02492	40.64	Pk	34.1	-30	44.74	54	-9.26	74	-29.26	-	-	0-360	100	H
4	* ** 5.07048	39.2	Pk	34.1	-28.3	45	54	-9	74	-29	-	-	0-360	200	V
2	* ** 7.4535	38.36	Pk	35.7	-27.6	46.46	54	-7.54	74	-27.54	-	-	0-360	100	H
3	* ** 9.05029	36.03	Pk	36.2	-24.6	47.63	54	-6.37	74	-26.37	-	-	0-360	100	H
6	* ** 7.60656	38.17	Pk	35.7	-26.8	47.07	54	-6.93	74	-26.93	-	-	0-360	200	V
5	6.84003	44.25	PK-U	35.4	-27.5	52.15	-	-	-	-	68.2	-16.05	20	215	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

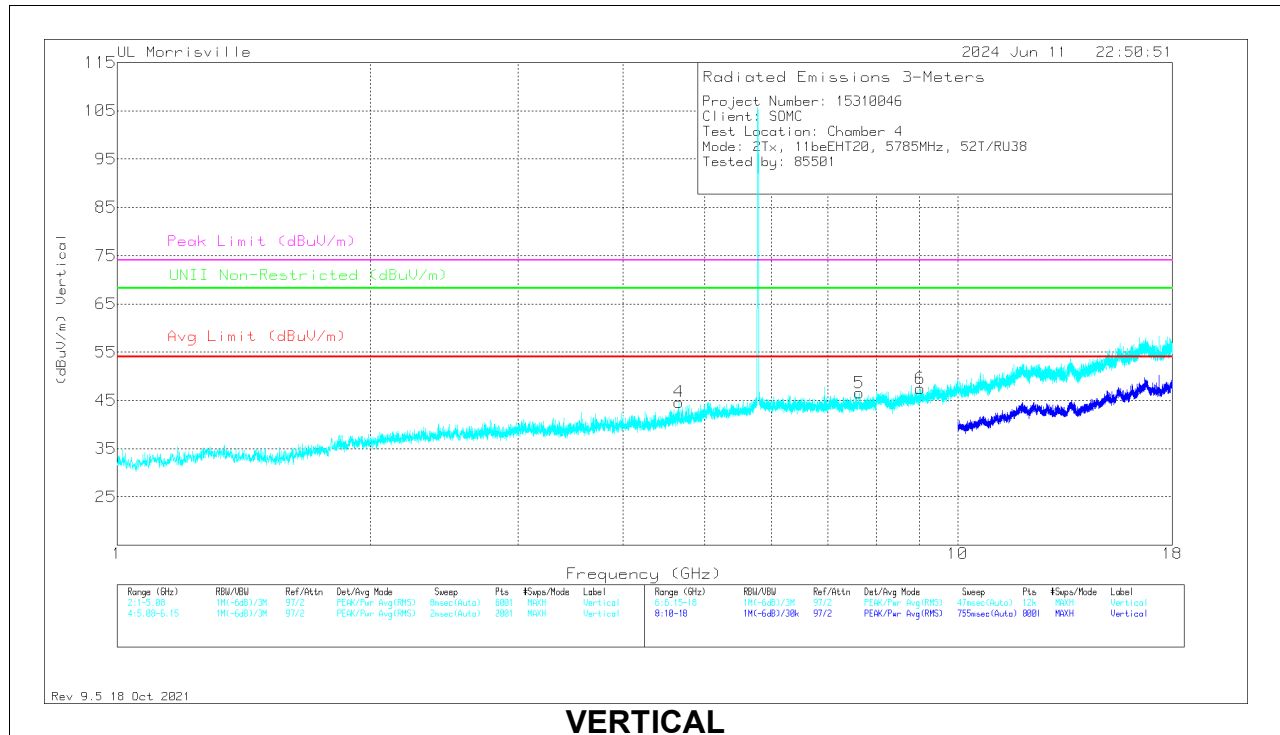
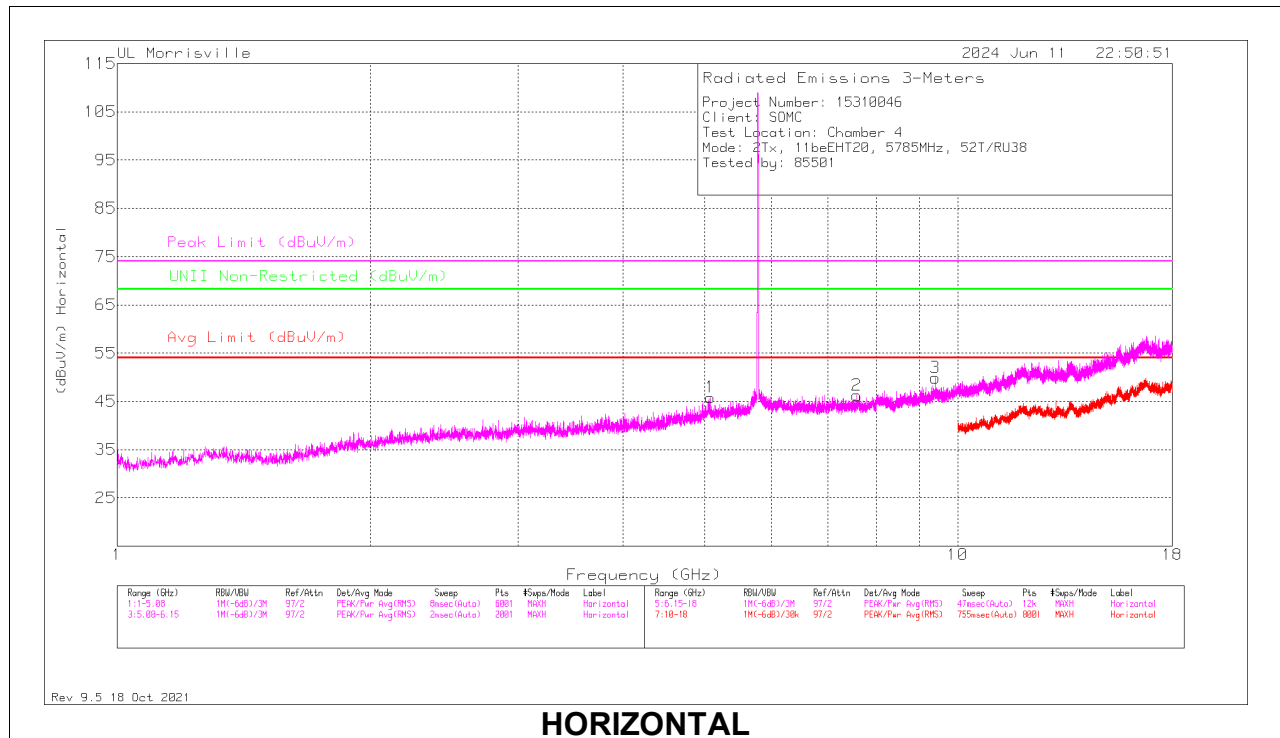
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

PK-U - Maximum Peak

HARMONICS AND SPURIOUS EMISSIONS 5.8 BAND (52T)

MID CHANNEL



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	89509 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 5.07728	40.03	Pk	34.1	-28.3	45.83	54	-8.17	74	-28.17	0-360	100	H
4	* ** 4.65976	40.96	Pk	34.1	-30.4	44.66	54	-9.34	74	-29.34	0-360	200	V
2	* ** 7.5878	37.54	Pk	35.7	-27	46.24	54	-7.76	74	-27.76	0-360	100	H
3	* ** 9.40949	37.18	PK-U	36.6	-24.9	48.88	-	-	74	-25.12	256	233	H
	* ** 9.40875	25.09	ADV	36.6	-24.9	36.79	54	-17.21	-	-	256	233	H
5	* ** 7.63421	37.72	Pk	35.7	-26.9	46.52	54	-7.48	74	-27.48	0-360	200	V
6	* ** 9.01869	35.95	Pk	36.2	-24.7	47.45	54	-6.55	74	-26.55	0-360	200	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

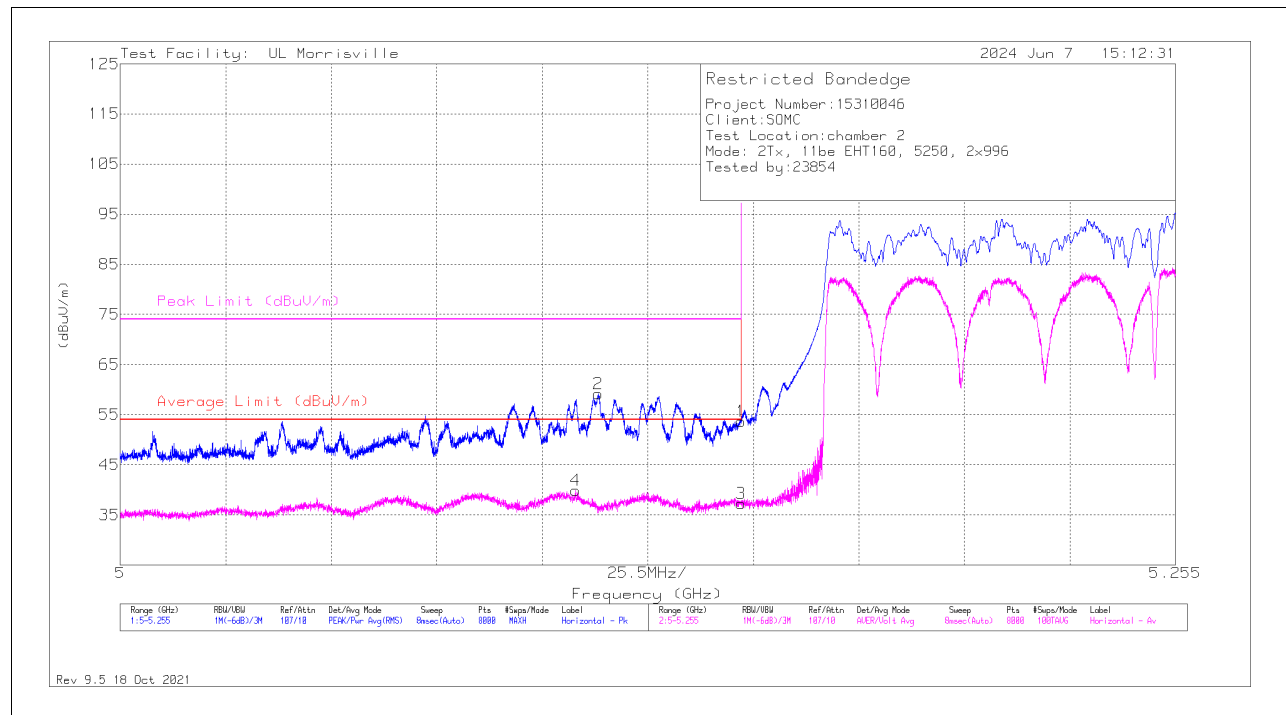
Pk - Peak detector

PK-U - Maximum Peak

ADV - Linear Voltage Average

RADIATED BANDEGE EMISSIONS
BANDEGE (LOW SIDE) (5.2 BAND 11be EHT160 2x996T)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 5.14999	41.51	Pk	34.1	-22	0	53.61	-	-	74	-20.39	350	293	H
2	** 5.11553	47.17	Pk	34.1	-22.1	0	59.17	-	-	74	-14.83	350	293	H
3	*** 5.14999	25.2	ADV	34.1	-22	0.25	37.55	54	-16.45	-	-	350	293	H
4	** 5.11005	27.86	ADV	34.1	-22.1	0.25	40.11	54	-13.91	-	-	350	293	H

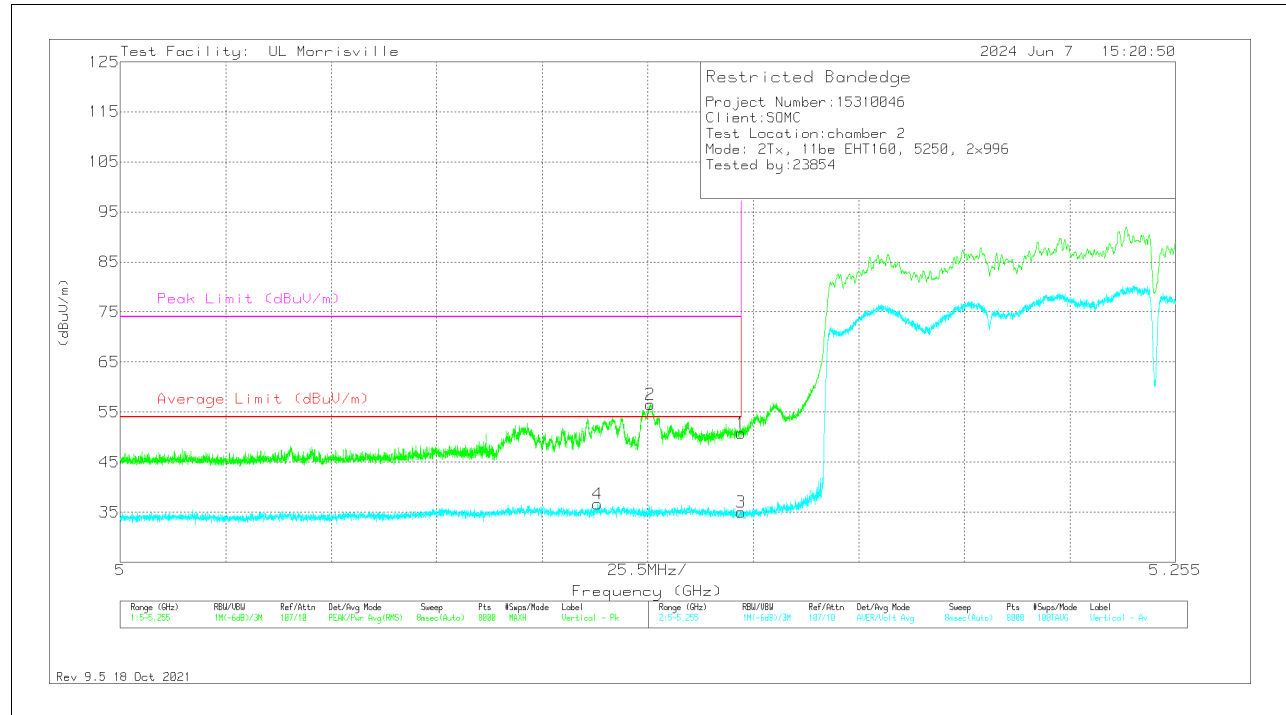
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 5.14999	38.68	Pk	34.1	-22	0	50.78	-	-	74	-23.22	156	318	V
2	*** 5.12803	44.68	Pk	34.1	-22.2	0	56.58	-	-	74	-17.42	156	318	V
3	*** 5.14999	22.87	ADV	34.1	-22	0.25	35.22	54	-18.78	-	-	156	318	V
4	*** 5.1154	24.62	ADV	34.1	-22.1	0.25	36.87	54	-17.13	-	-	156	318	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

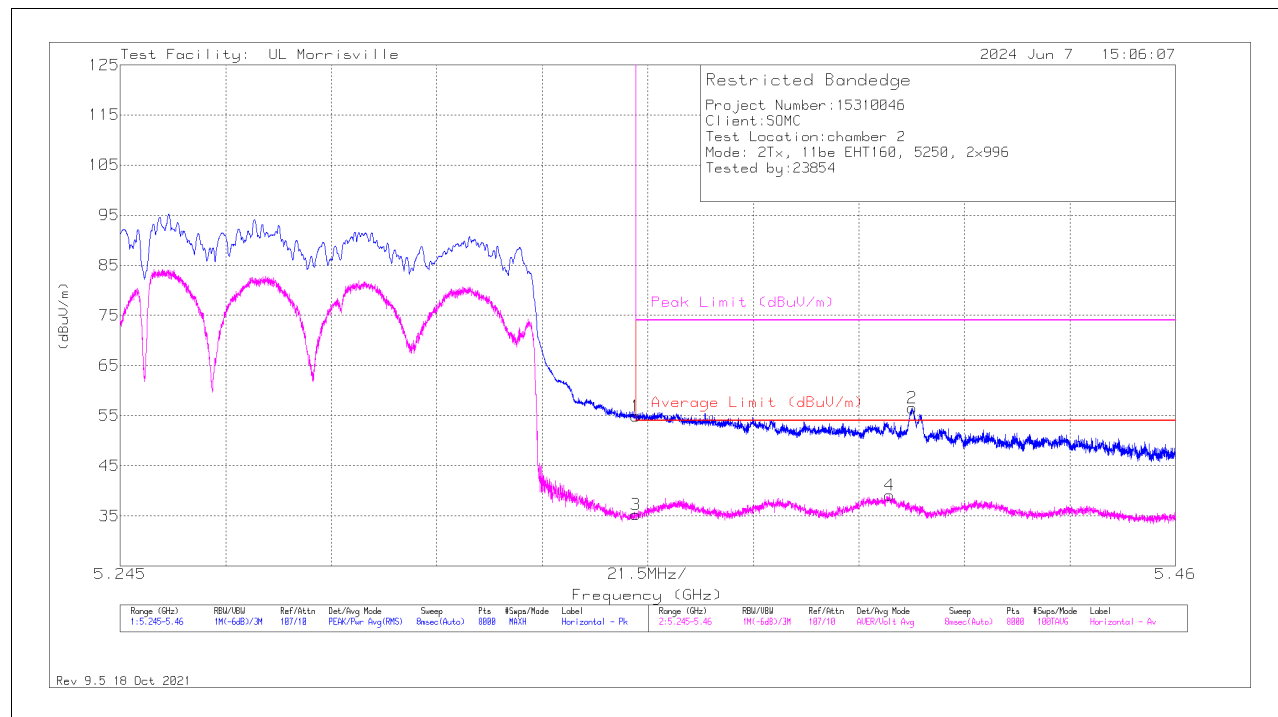
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

BANDEDGE (HIGH SIDE) (5.3 BAND 11be EHT160 2x996T)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 5.35001	43.2	Pk	34.4	-22.7	0	54.9	-	-	74	-19.1	350	293	H
2	*** 5.40638	45.23	Pk	34.4	-23.1	0	56.53	-	-	74	-17.47	350	293	H
3	*** 5.35001	23.6	ADV	34.4	-22.7	0.25	35.55	54	-18.45	-	-	350	293	H
4	*** 5.40178	27.63	ADV	34.4	-22.9	0.25	39.38	54	-14.62	-	-	350	293	H

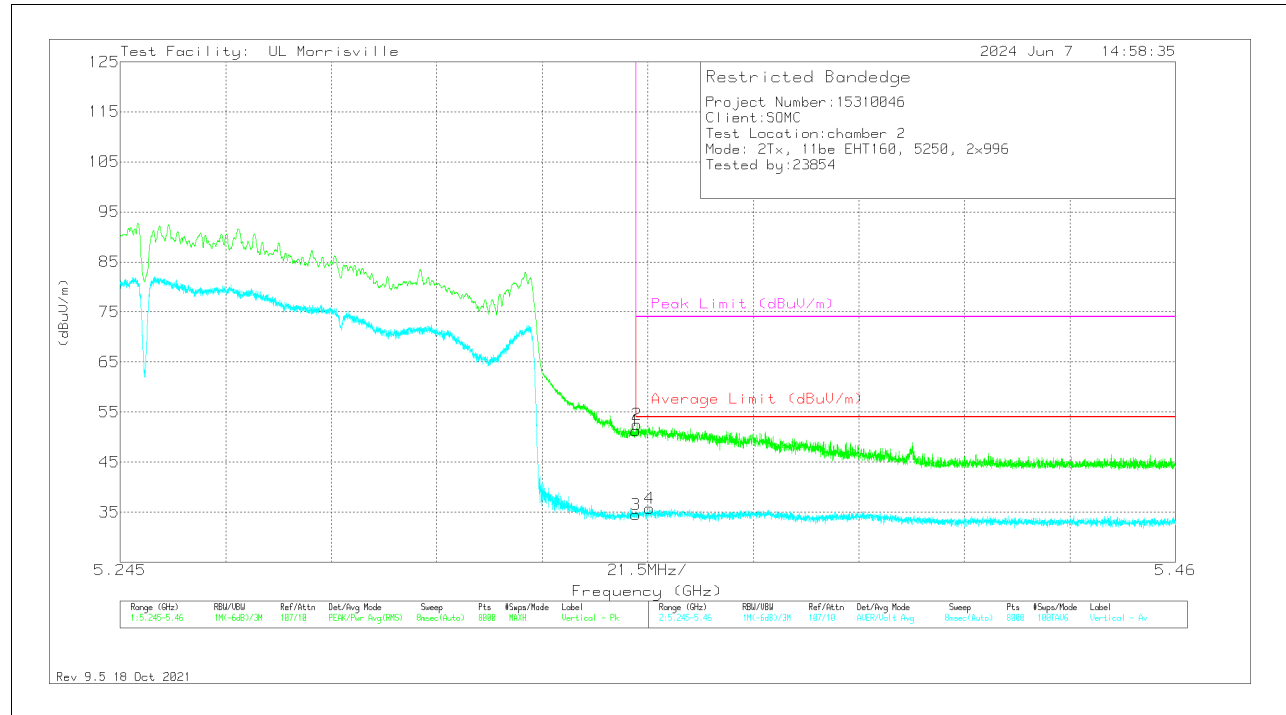
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 5.35001	39.56	Pk	34.4	-22.7	0	51.26	-	-	74	-22.74	122	391	V
2	*** 5.35025	40.85	Pk	34.4	-22.7	0	52.55	-	-	74	-21.45	122	391	V
3	*** 5.35001	22.79	ADV	34.4	-22.7	0.25	34.74	54	-19.26	-	-	122	390	V
4	*** 5.35289	24.05	ADV	34.4	-22.7	0.25	36	54	-18	-	-	122	390	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

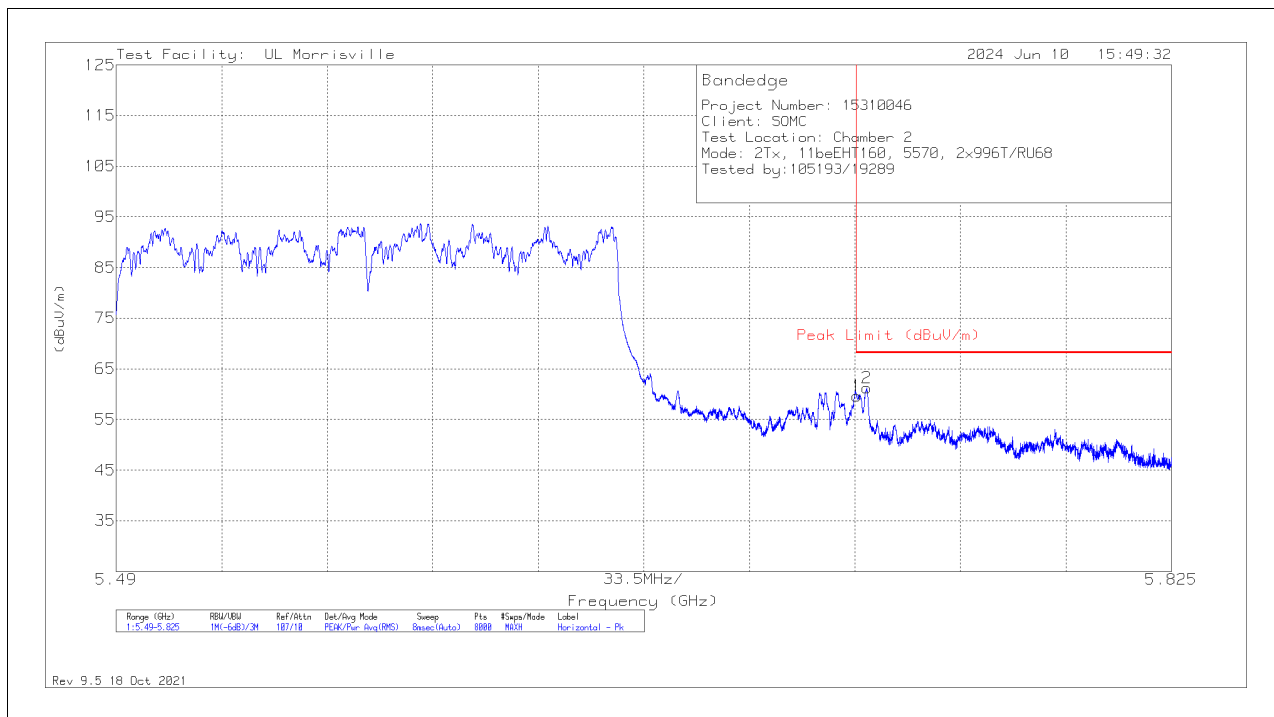
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

BANDEDGE (HIGH SIDE) (5.6 BAND 11be EHT160 2x996T)

HORIZONTAL RESULT



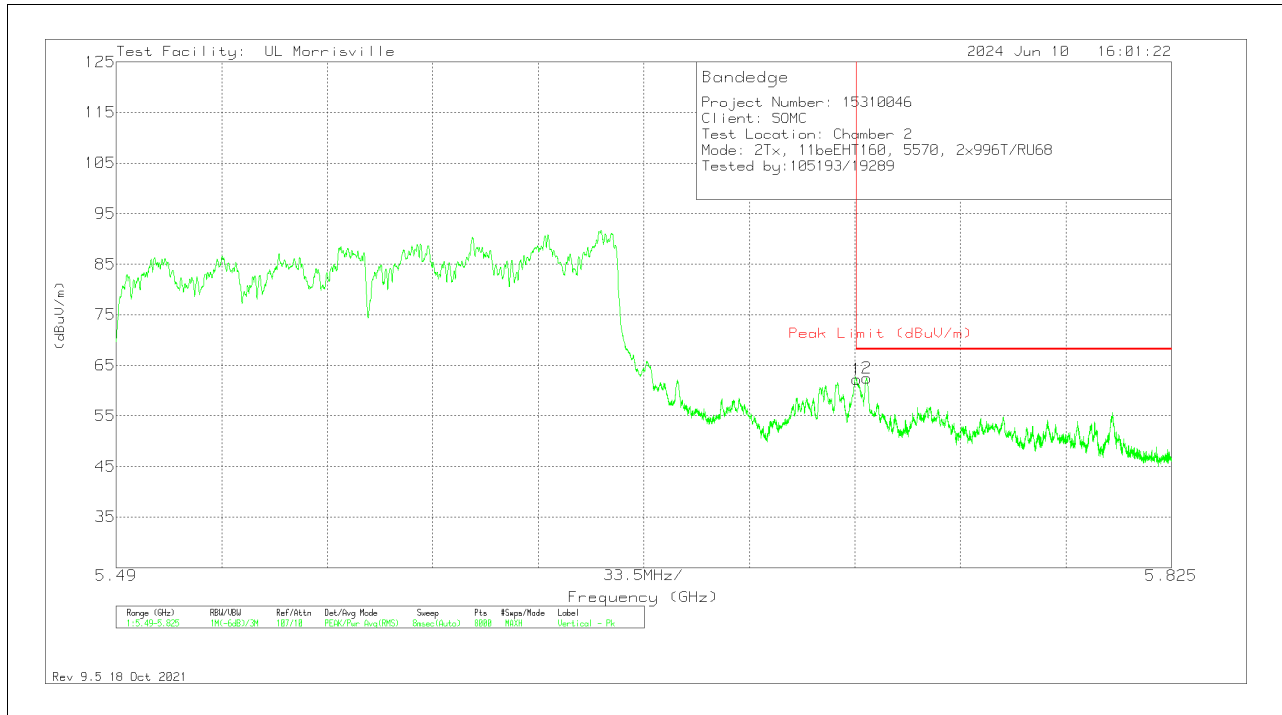
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.72503	47.9	Pk	34.7	-23	59.6	68.2	-8.6	339	173	H
2	5.72821	49.53	Pk	34.7	-23	61.23	68.2	-6.97	339	173	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.72503	50.53	Pk	34.7	-23	62.23	68.2	-5.97	18	282	V
2	5.72821	50.82	Pk	34.7	-23	62.52	68.2	-5.68	18	282	V

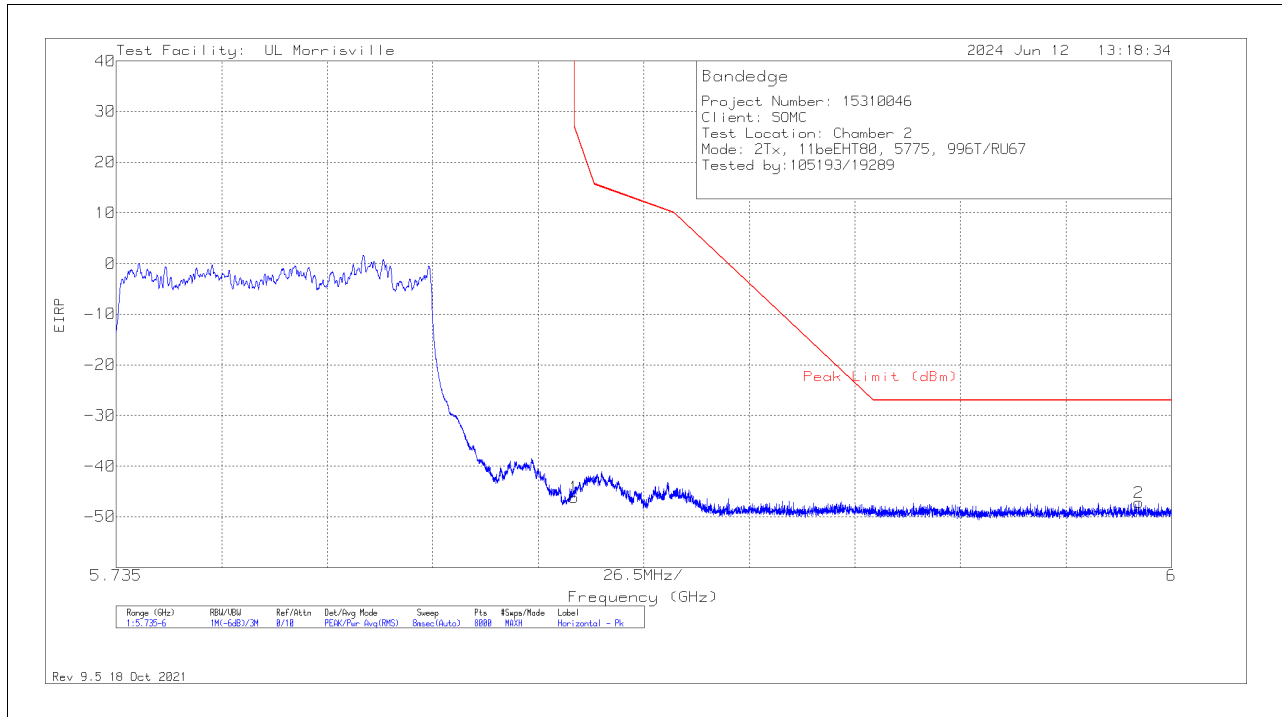
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

BANDEDGE (HIGH SIDE) (5.8 BAND 11be EHT80 996T)

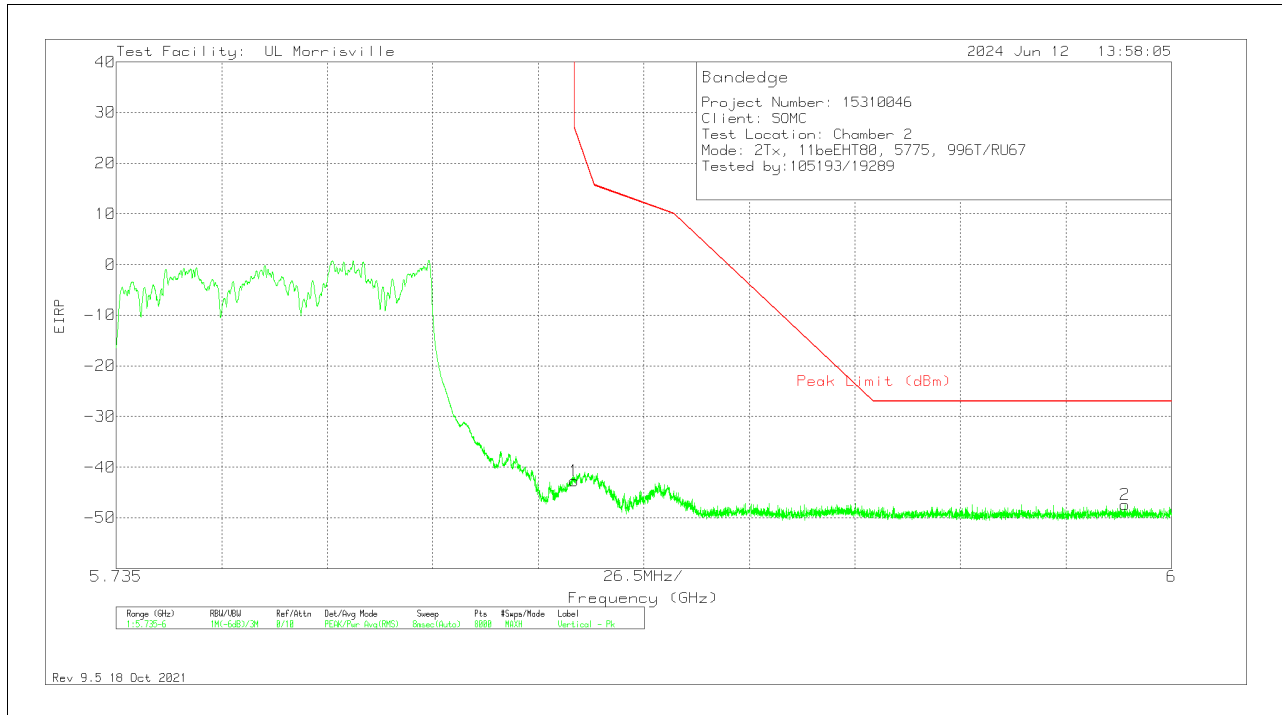
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	86408 (dB/m)	Gain/Loss (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85002	-69.96	Pk	34.9	-22.9	11.8	-46.16	26.95	-73.11	87	244	H
2	5.99178	-71.82	Pk	35.2	-22.4	11.8	-47.22	-27	-20.22	87	244	H

Pk - Peak detector

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	86408 (dB/m)	Gain/Loss (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85002	-66.5	Pk	34.9	-22.9	11.8	-42.7	26.95	-69.65	25	266	V
2	5.98827	-71.98	Pk	35.2	-22.4	11.8	-47.38	-27	-20.38	25	266	V

Pk - Peak detector

10. ANTENNA PORT TEST RESULTS

10.1. ON TIME AND DUTY CYCLE

LIMITS

None; for reporting purposes only.

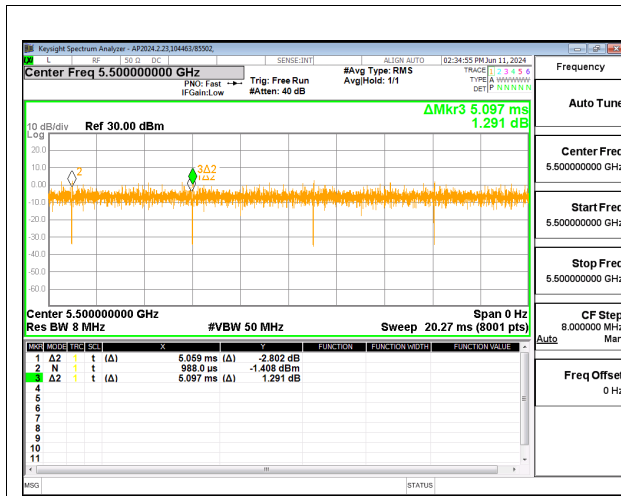
PROCEDURE

KDB 558074 D01 Zero-Span Spectrum Analyzer Method.

ON TIME AND DUTY CYCLE RESULTS

Mode	On Time B (ms)	Period (ms)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
802.11be EHT20 52T	5.059	5.097	0.993	99.25%	0.00
802.11be EHT20 52T+26T	5.000	5.040	0.992	99.21%	0.00
802.11be EHT20 106T+26T	3.155	3.190	0.989	98.90%	0.00
802.11be EHT80 996T	0.667	0.687	0.971	97.15%	0.25
802.11be EHT80 484T+242T (C)	5.411	5.448	0.993	99.32%	0.00
802.11be EHT80 484T+242T (N)	0.902	0.924	0.976	97.64%	0.21
802.11be EHT80 242T+484T (N)	0.902	0.923	0.978	97.83%	0.19
802.11be EHT160 2x996T	0.663	0.682	0.972	97.18%	0.25
802.11be EHT160 996T+484T (C)	5.411	5.462	0.991	99.08%	0.00
802.11be EHT160 996T+484T (N)	0.869	0.889	0.978	97.75%	0.20
802.11be EHT160 484T+996T (N)	0.871	0.891	0.978	97.75%	0.20
802.11be EHT160 996T+484T+242T (C)	5.429	5.475	0.992	99.17%	0.00
802.11be EHT160 242T+484T+996T (N)	5.414	5.460	0.992	99.16%	0.00
802.11be EHT160 484T+242T+996T (N)	5.420	5.463	0.992	99.21%	0.00
802.11be EHT160 996T+242T+484T (N)	5.414	5.460	0.992	99.16%	0.00
802.11be EHT160 996T+484T+242T (N)	5.431	5.477	0.992	99.16%	0.00

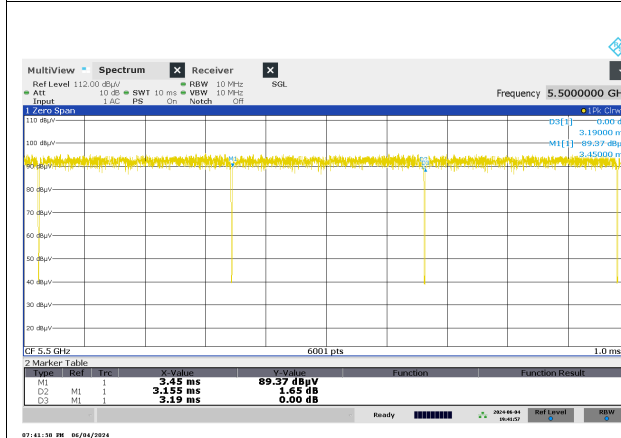
DUTY CYCLE PLOTS



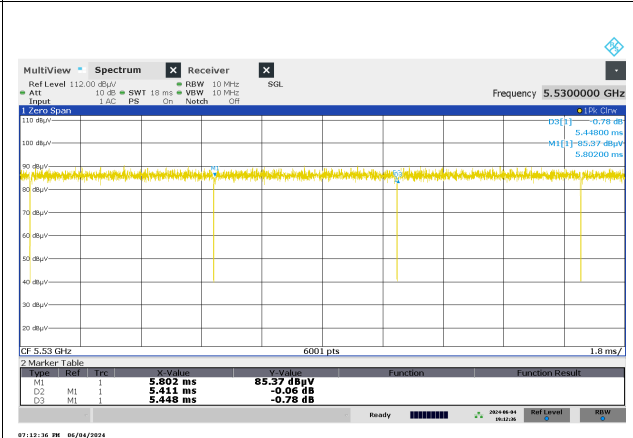
802.11be EHT20, OFDMA, 52T, 2Tx



802.11be EHT20, OFDMA, 52T+26T, 2Tx



802.11be EHT20, OFDMA, 106T+26T, 2Tx



802.11be EHT80, OFDMA, 484T+242T (C), 2Tx



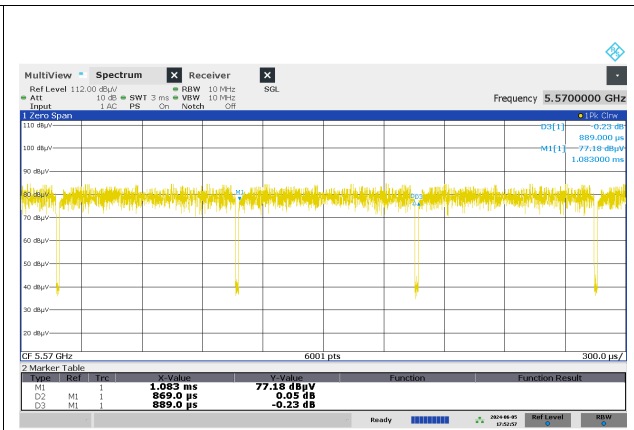
802.11be EHT80, OFDMA, 484T+242T (N), 2Tx



802.11be EHT80, OFDMA, 242T+484T (N), 2Tx



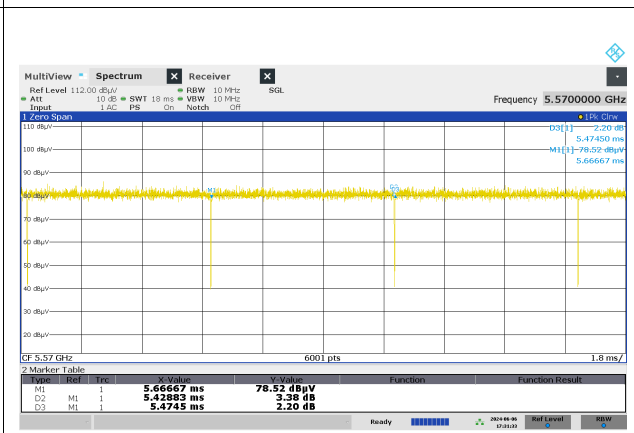
802.11be EHT160, OFDMA, 996T+484T (C),
2Tx



802.11be EHT160, OFDMA, 996T+484T (N),
2Tx



802.11be EHT160, OFDMA, 484T+996T (N),
2Tx



802.11be EHT160, OFDMA,
996T+484T+242T (C), 2Tx



802.11be EHT160, OFDMA,
242T+484T+996T (N), 2Tx



802.11be EHT160, OFDMA,
484T+242T+996T (N), 2Tx



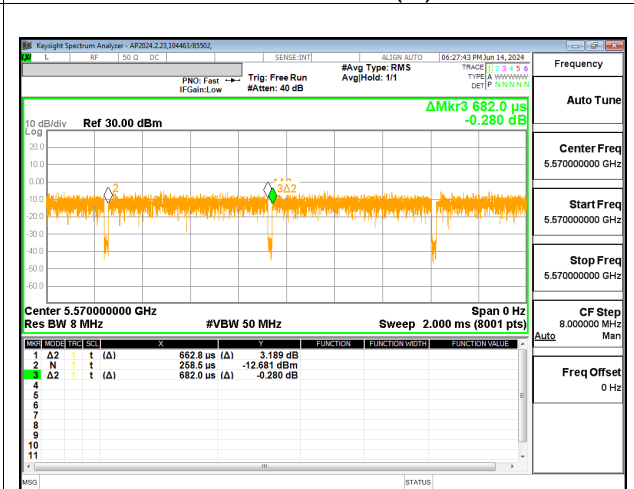
802.11be EHT160, OFDMA,
996T+242T+484T (N), 2Tx



802.11be EHT160, OFDMA,
996T+484T+242T (N), 2Tx



802.11be EHT80, OFDMA, 996T



802.11be EHT160, OFDMA, 2x996T

10.2. 26 dB BANDWIDTH

LIMITS

None; for reporting purposes only.

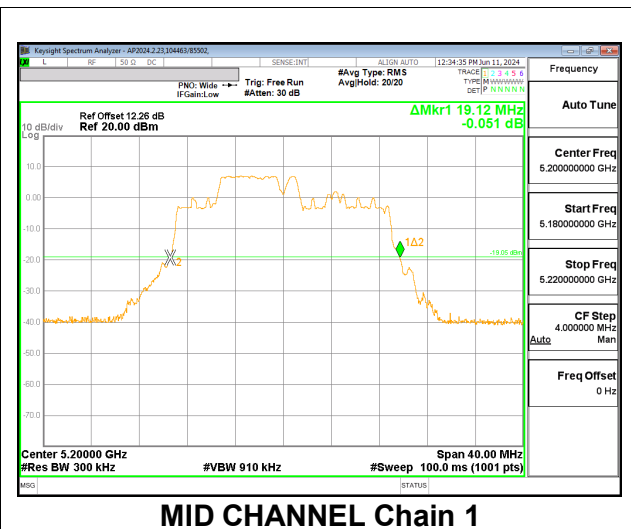
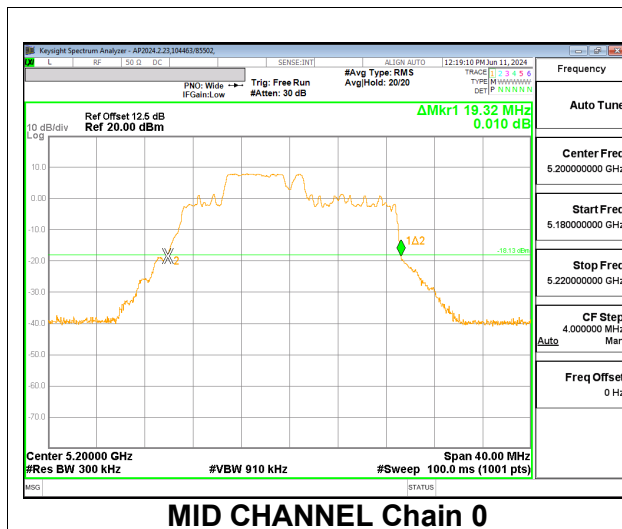
RESULTS

802.11be EHT20 MODE 2TX IN THE 5.2GHz BAND

2TX CHAIN 0 + CHAIN 1 MODE: 52T+26T

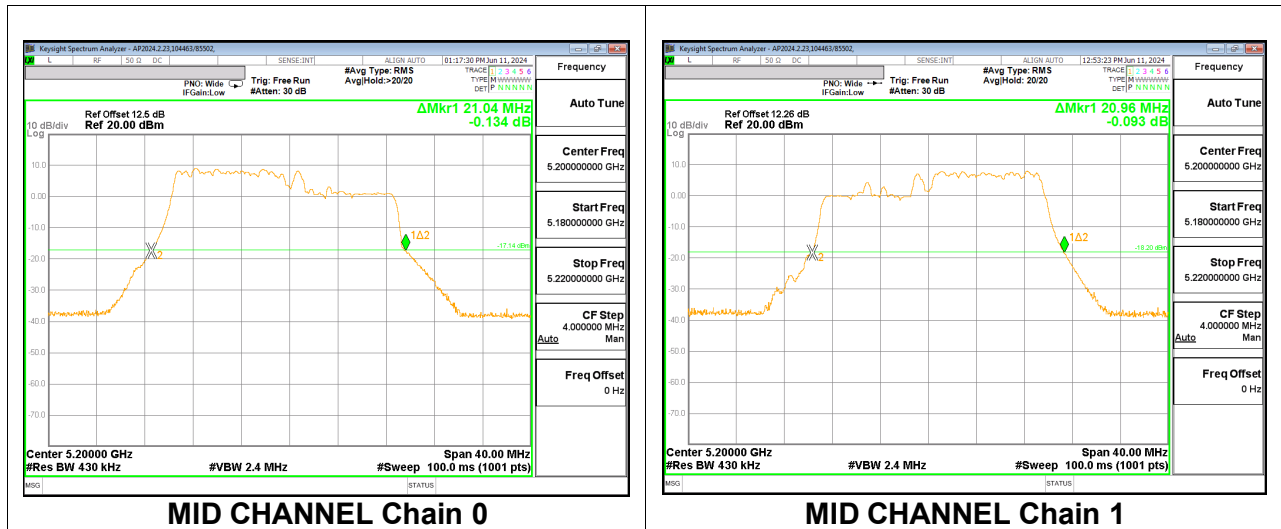
10.2.1.

Channel	Frequency (MHz)	26 dB Bandwidth Chain 0 (MHz)	26 dB Bandwidth Chain 1 (MHz)
Low	5180	19.36	20.04
Mid	5200	19.32	19.12
High	5240	20.12	19.72



2TX CHAIN 0 + CHAIN 1 MODE: 106T+26T

Channel	Frequency (MHz)	26 dB Bandwidth Chain 0 (MHz)	26 dB Bandwidth Chain 1 (MHz)
Low	5180	21.04	21.52
Mid	5200	21.04	20.96
High	5240	21.68	20.96

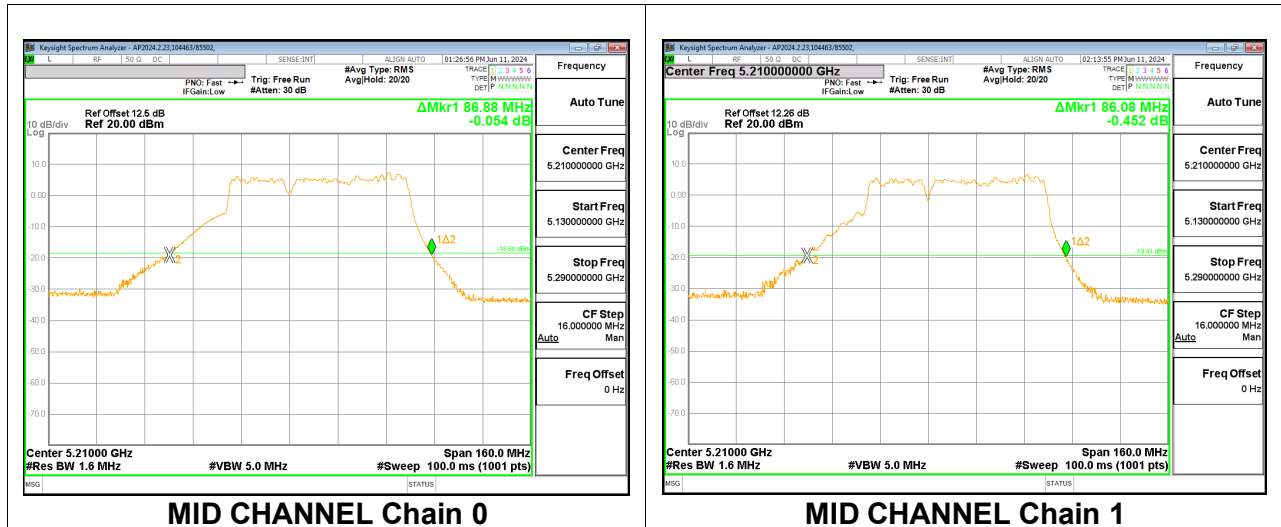


802.11be EHT80 MODE 2TX IN THE 5.2GHz BAND

2TX CHAIN 0 + CHAIN 1 MODE: 484T+242T (Contiguous, MRU1)

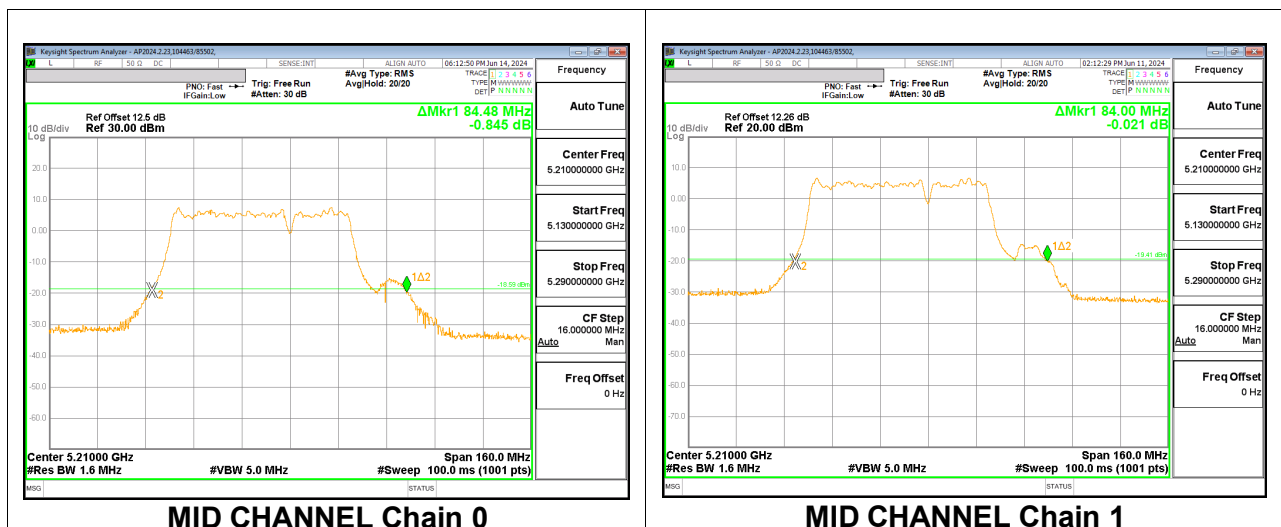
10.2.2.

Channel	Frequency	26 dB Bandwidth	26 dB Bandwidth
	(MHz)	Chain 0	Chain 1
	(MHz)	(MHz)	(MHz)
Mid	5210	86.88	86.08



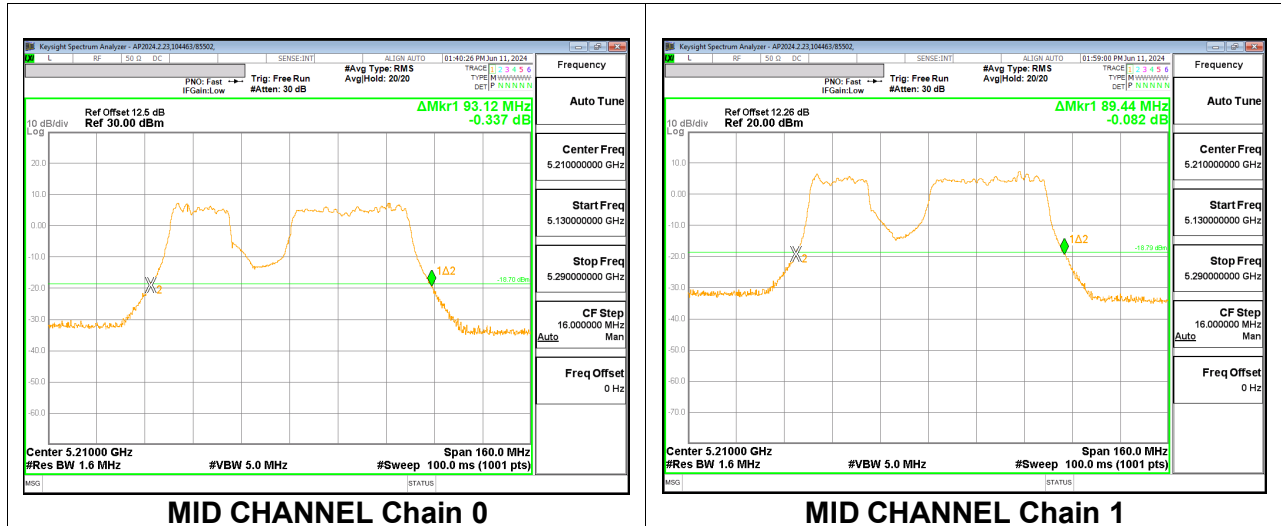
2TX CHAIN 0 + CHAIN 1 MODE: 484T+242T (Contiguous, MRU4)

Channel	Frequency	26 dB Bandwidth	26 dB Bandwidth
	(MHz)	Chain 0	Chain 1
	(MHz)	(MHz)	(MHz)
Mid	5210	84.48	84.00



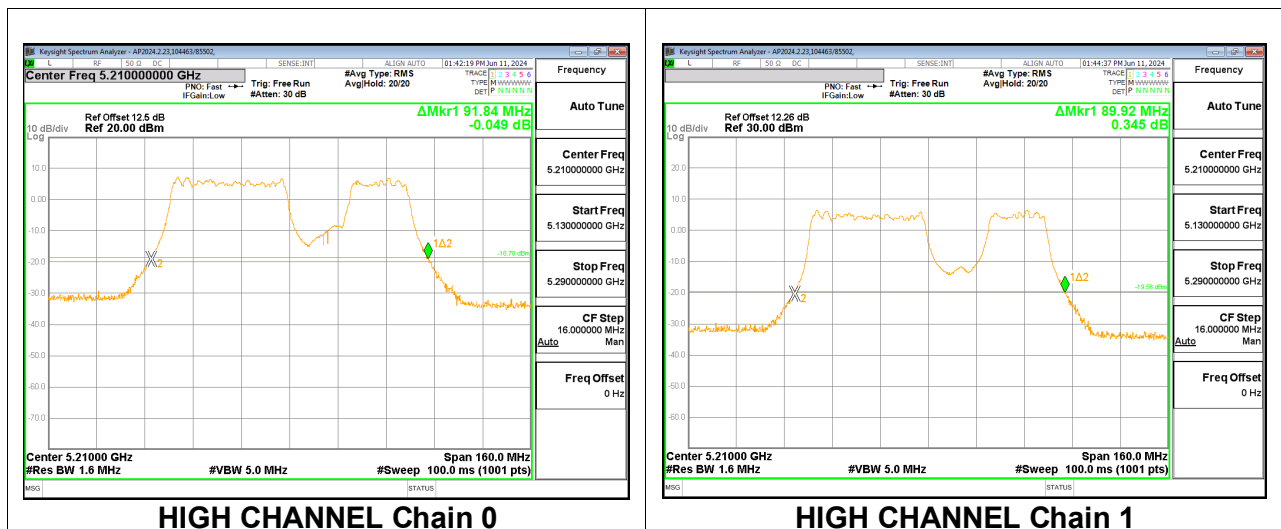
2TX CHAIN 0 + CHAIN 1 MODE: 242T+484T (Non-Contiguous, MRU2)

Channel	Frequency (MHz)	26 dB Bandwidth Chain 0 (MHz)	26 dB Bandwidth Chain 1 (MHz)
Mid	5210	93.12	89.44



2TX CHAIN 0 + CHAIN 1 MODE: 484T+242T (Non-Contiguous, MRU3)

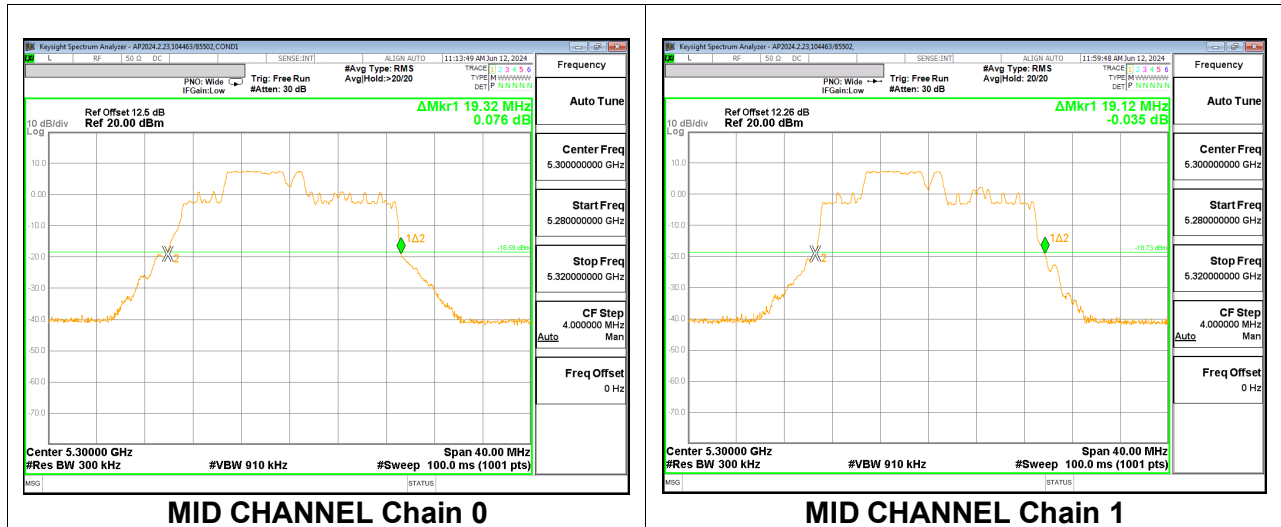
Channel	Frequency (MHz)	26 dB Bandwidth Chain 0 (MHz)	26 dB Bandwidth Chain 1 (MHz)
Mid	5210	91.84	89.92



802.11be EHT20 MODE 2TX IN THE 5.3GHz BAND
2TX CHAIN 0 + CHAIN 1 MODE: 52T+26T

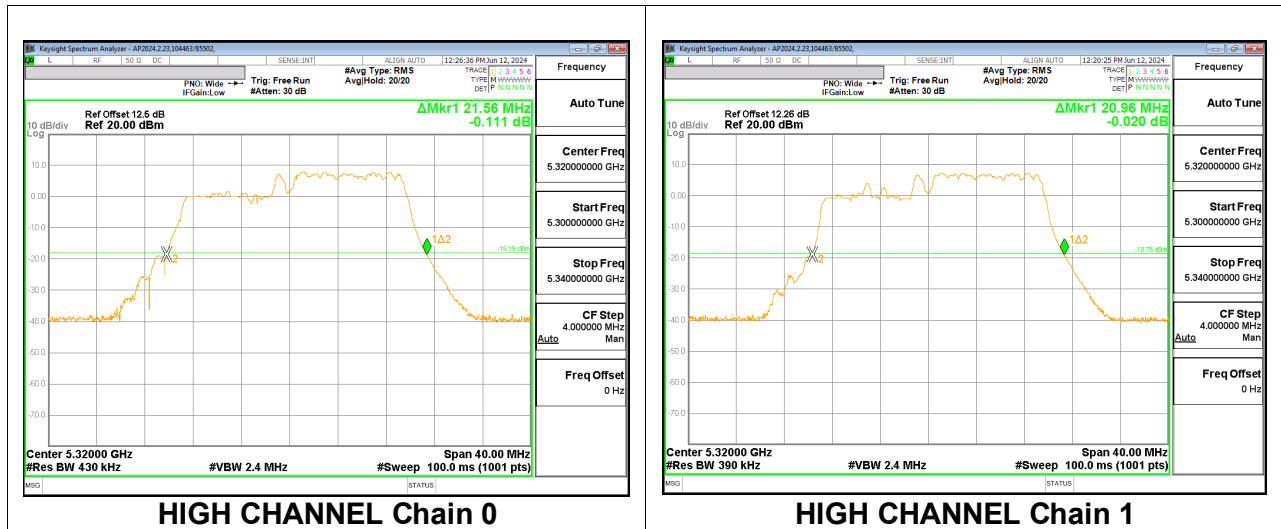
10.2.3.

Channel	Frequency (MHz)	26 dB Bandwidth Chain 0 (MHz)	26 dB Bandwidth Chain 1 (MHz)
Low	5260	19.40	19.40
Mid	5300	19.32	19.12
High	5320	20.16	19.68



2TX CHAIN 0 + CHAIN 1 MODE: 106T+26T

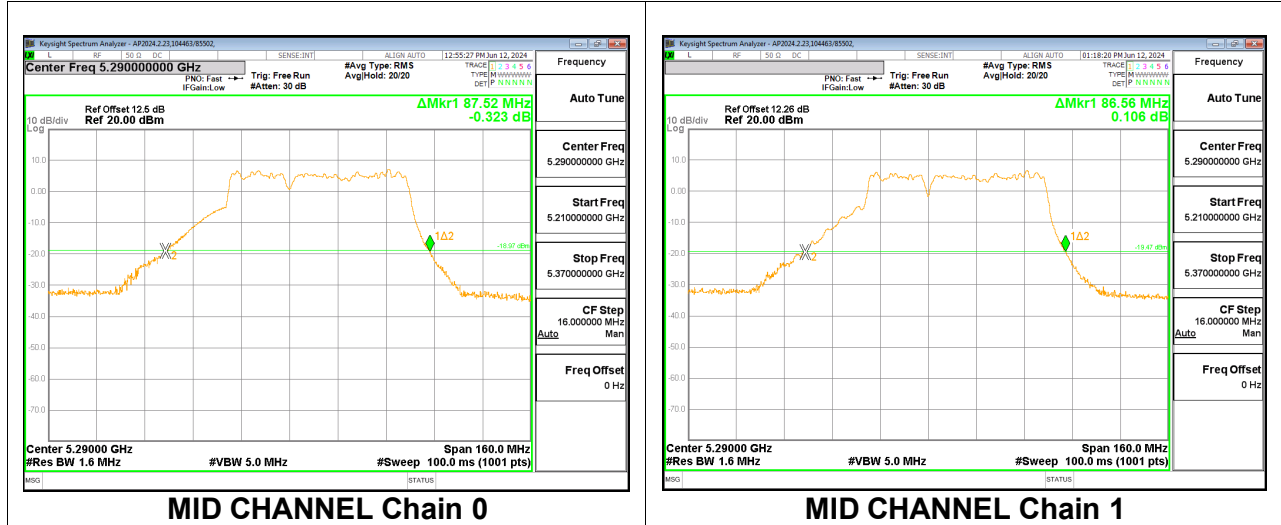
Channel	Frequency (MHz)	26 dB Bandwidth Chain 0 (MHz)	26 dB Bandwidth Chain 1 (MHz)
Low	5260	21.08	21.56
Mid	5300	21.08	21.48
High	5320	21.56	20.96



802.11be EHT80 MODE 2TX IN THE 5.3GHz BAND
2TX CHAIN 0 + CHAIN 1 MODE: 484T+242T (Contiguous, MRU1)

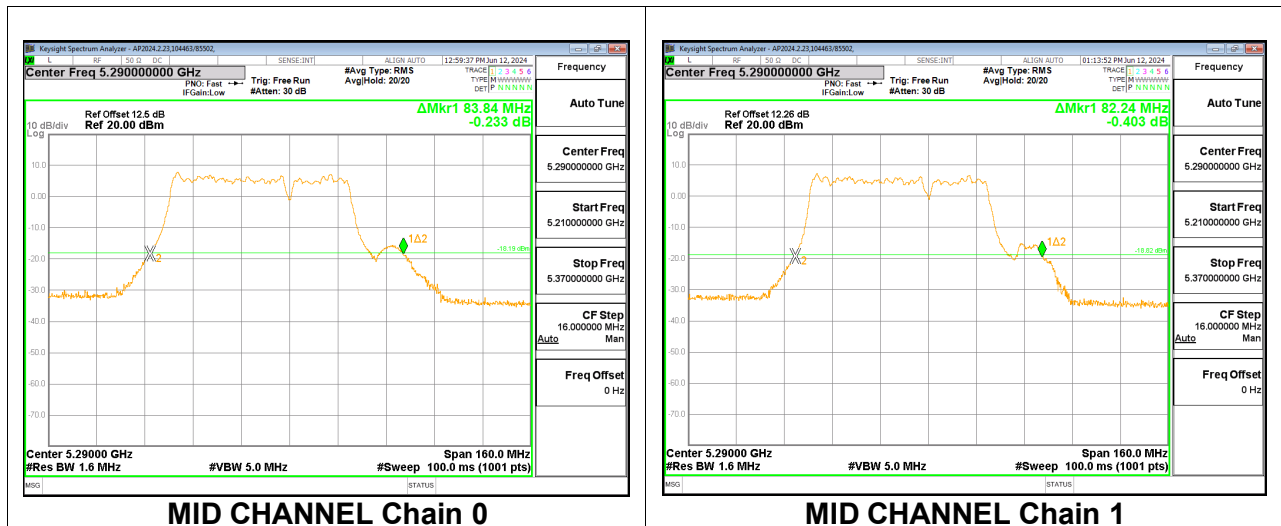
10.2.4.

Channel	Frequency	26 dB Bandwidth	26 dB Bandwidth
	(MHz)	Chain 0	Chain 1
		(MHz)	(MHz)
Mid	5290	87.52	86.56



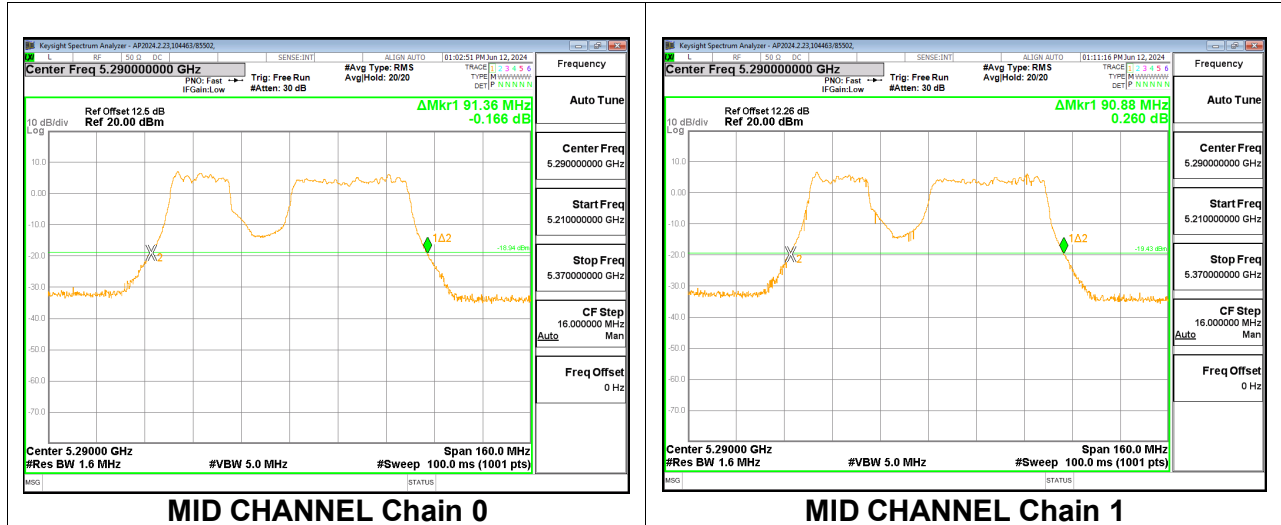
2TX CHAIN 0 + CHAIN 1 MODE: 484T+242T (Contiguous, MRU4)

Channel	Frequency	26 dB Bandwidth	26 dB Bandwidth
	(MHz)	Chain 0	Chain 1
		(MHz)	(MHz)
Mid	5290	83.84	82.24



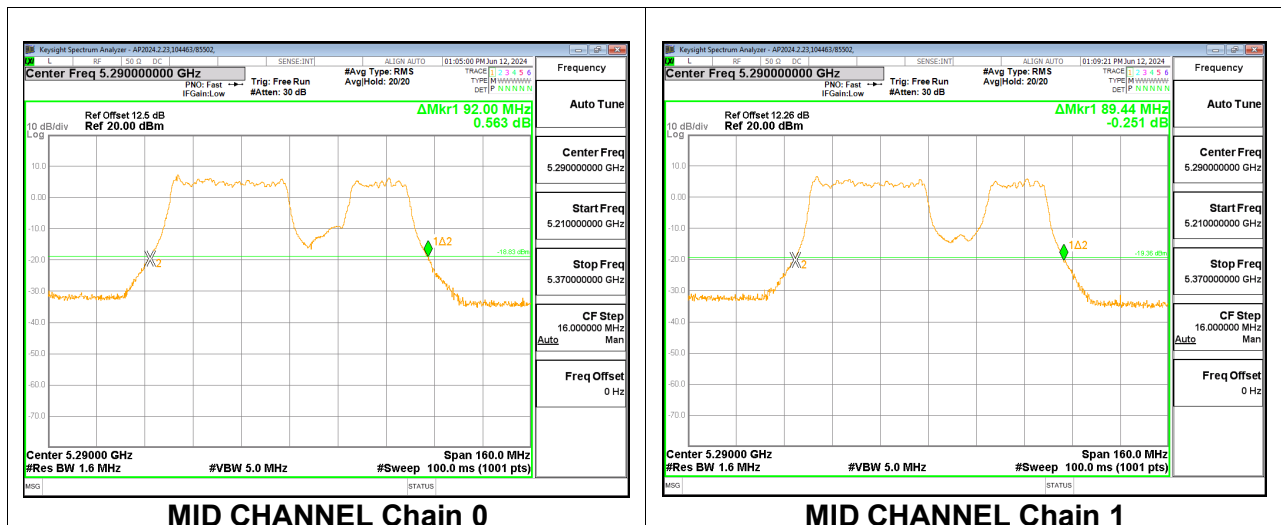
2TX CHAIN 0 + CHAIN 1 MODE: 242T+484T (Non-Contiguous, MRU2)

Channel	Frequency (MHz)	26 dB Bandwidth Chain 0 (MHz)	26 dB Bandwidth Chain 1 (MHz)
Mid	5290	91.36	90.88



2TX CHAIN 0 + CHAIN 1 MODE: 484T+242T (Non-Contiguous, MRU3)

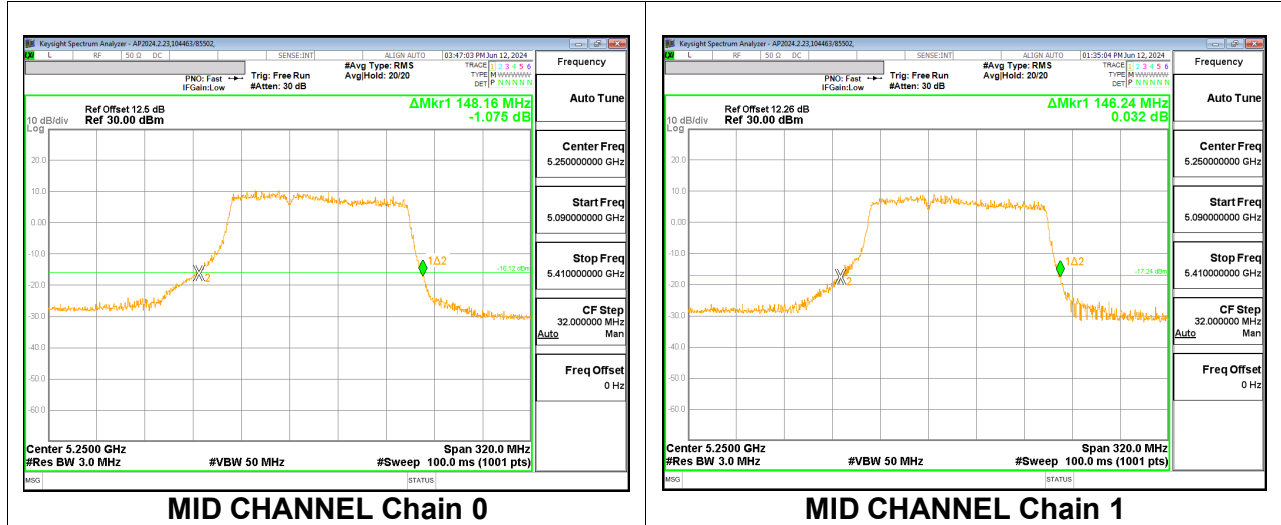
Channel	Frequency (MHz)	26 dB Bandwidth Chain 0 (MHz)	26 dB Bandwidth Chain 1 (MHz)
Mid	5290	92.00	89.44



802.11be EHT160 MODE 2TX IN THE 5.3GHz BAND
2TX CHAIN 0 + CHAIN 1 MODE: 996T+484T (Contiguous, MRU1)

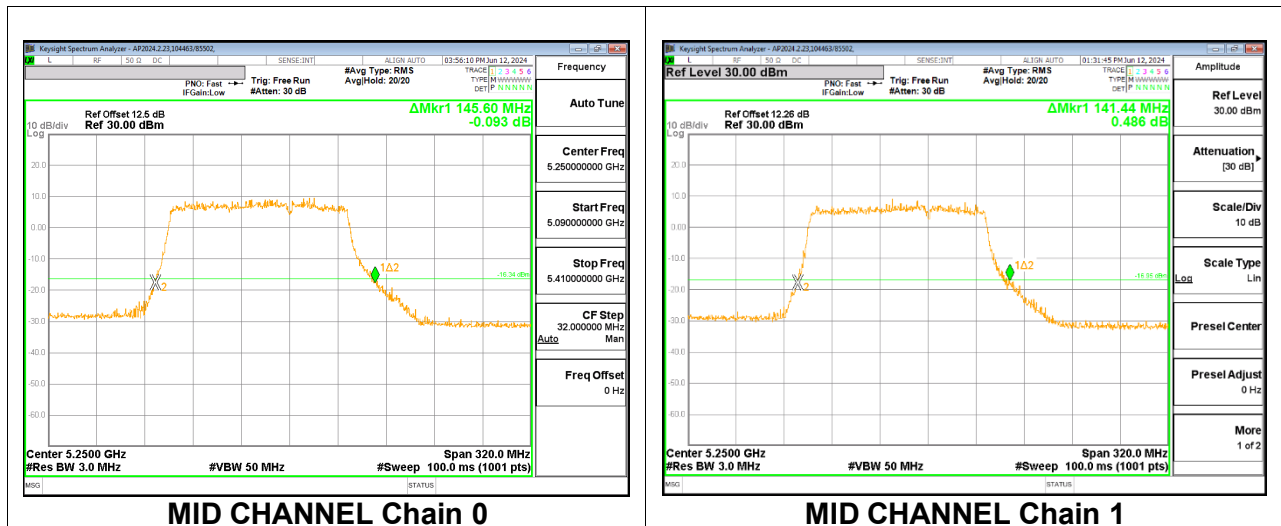
10.2.5.

Channel	Frequency	26 dB Bandwidth	26 dB Bandwidth
	(MHz)	Chain 0	Chain 1
		(MHz)	(MHz)
Mid	5250	148.16	146.24



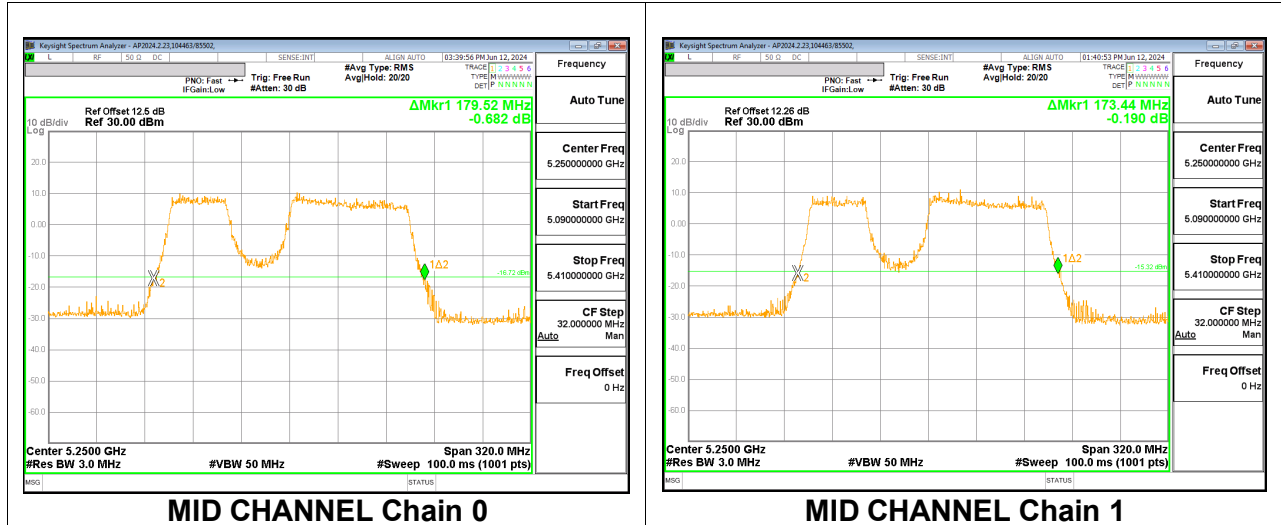
2TX CHAIN 0 + CHAIN 1 MODE: 996T+484T (Contiguous, MRU4)

Channel	Frequency	26 dB Bandwidth	26 dB Bandwidth
	(MHz)	Chain 0	Chain 1
		(MHz)	(MHz)
Mid	5250	145.60	141.44



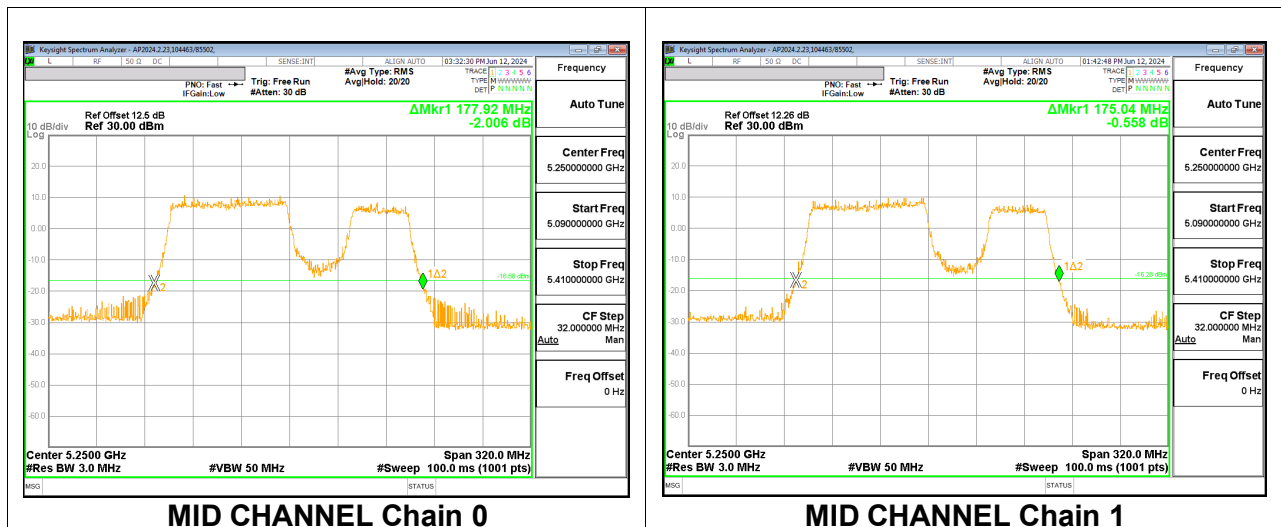
2TX CHAIN 0 + CHAIN 1 MODE: 484T+996T (Non-Contiguous, MRU2)

Channel	Frequency (MHz)	26 dB Bandwidth Chain 0 (MHz)	26 dB Bandwidth Chain 1 (MHz)
Mid	5250	179.52	173.44



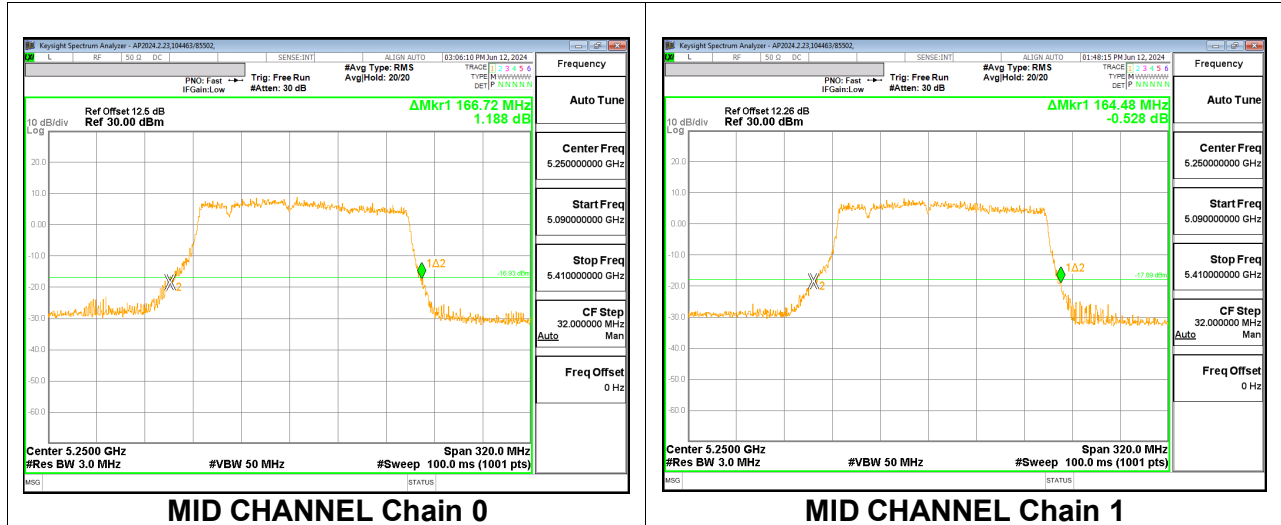
2TX CHAIN 0 + CHAIN 1 MODE: 996T+484T (Non-Contiguous, MRU3)

Channel	Frequency (MHz)	26 dB Bandwidth Chain 0 (MHz)	26 dB Bandwidth Chain 1 (MHz)
Mid	5250	177.92	175.04



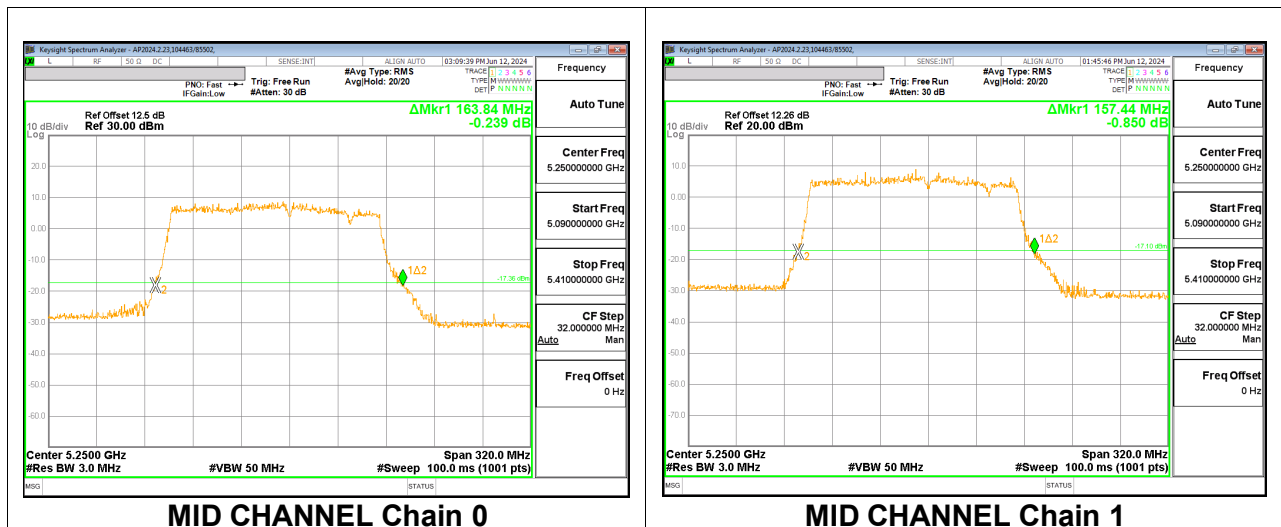
2TX CHAIN 0 + CHAIN 1 MODE: 996T+484T+242T (Contiguous, MRU1)

Channel	Frequency	26 dB Bandwidth	26 dB Bandwidth
	(MHz)	Chain 0	Chain 1
	(MHz)	(MHz)	(MHz)
Mid	5250	166.72	164.48



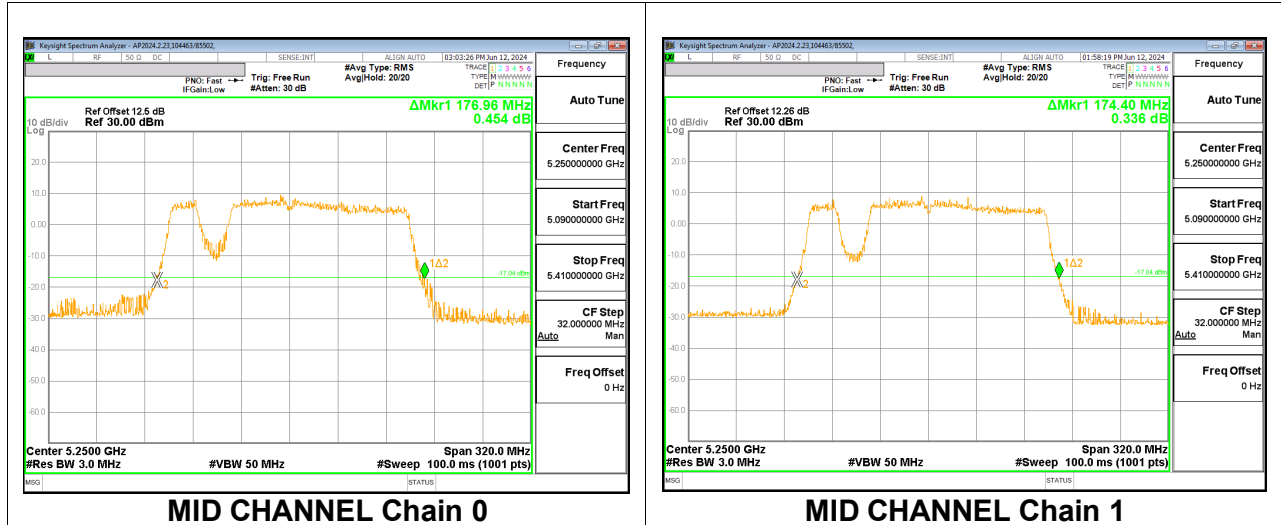
2TX CHAIN 0 + CHAIN 1 MODE: 996T+484T+242T (Contiguous, MRU8)

Channel	Frequency	26 dB Bandwidth	26 dB Bandwidth
	(MHz)	Chain 0	Chain 1
	(MHz)	(MHz)	(MHz)
Mid	5250	163.84	157.44



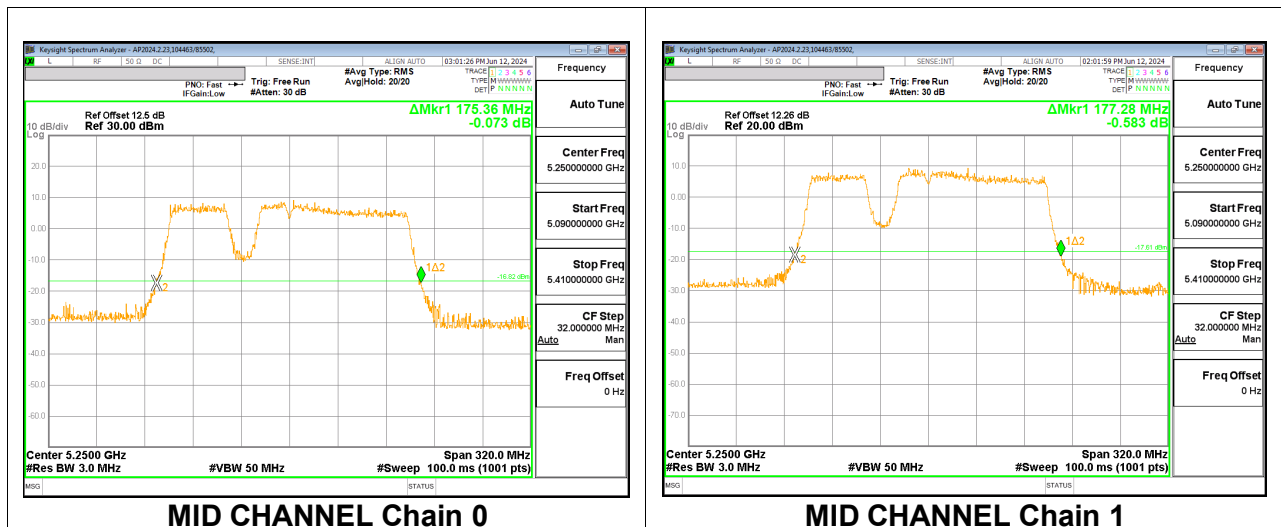
2TX CHAIN 0 + CHAIN 1 MODE: 242T+484T+996T (Non-Contiguous, MRU2)

Channel	Frequency (MHz)	26 dB Bandwidth Chain 0 (MHz)	26 dB Bandwidth Chain 1 (MHz)
Mid	5250	176.96	174.40



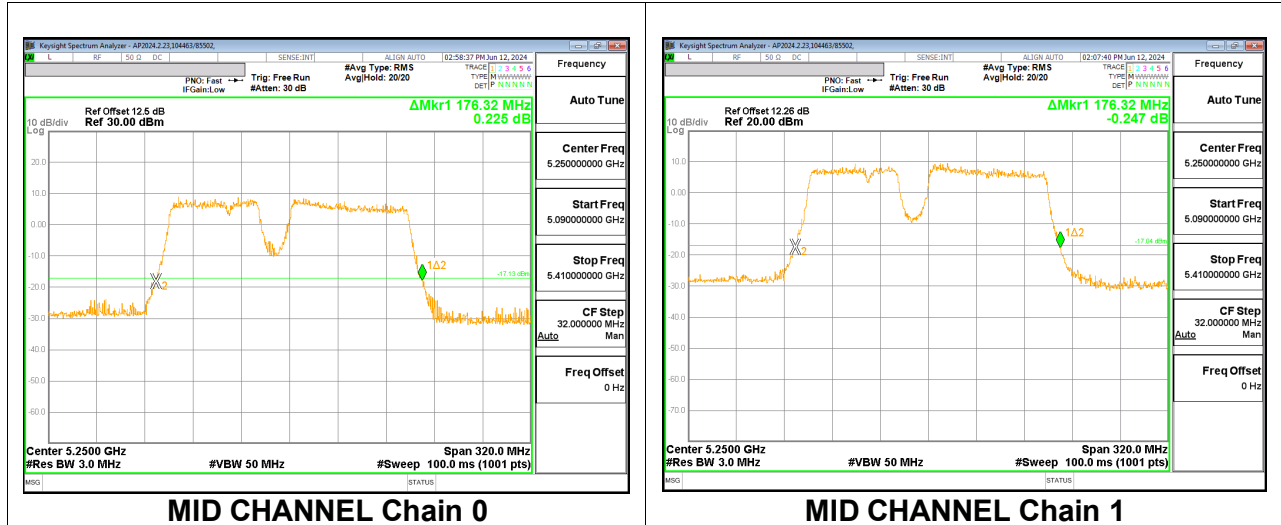
2TX CHAIN 0 + CHAIN 1 MODE: 484T+242T+996T (Non-Contiguous, MRU3)

Channel	Frequency (MHz)	26 dB Bandwidth Chain 0 (MHz)	26 dB Bandwidth Chain 1 (MHz)
Mid	5250	175.36	177.28



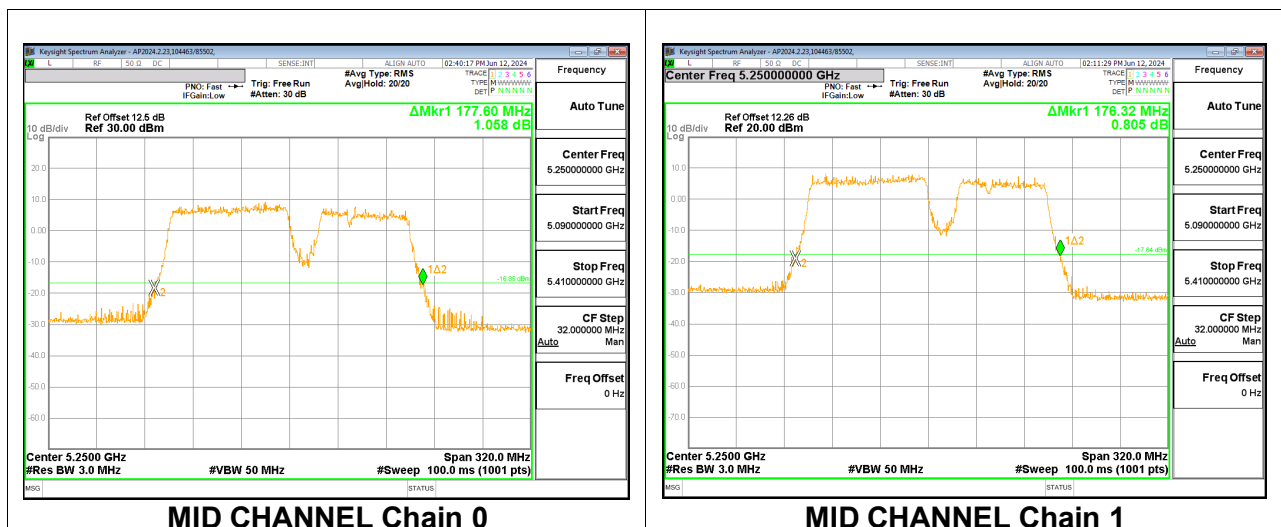
2TX CHAIN 0 + CHAIN 1 MODE: 484T+242T+996T (Non-Contiguous, MRU4)

Channel	Frequency	26 dB Bandwidth	26 dB Bandwidth
	(MHz)	Chain 0	Chain 1
	(MHz)	(MHz)	(MHz)
Mid	5250	176.32	176.32



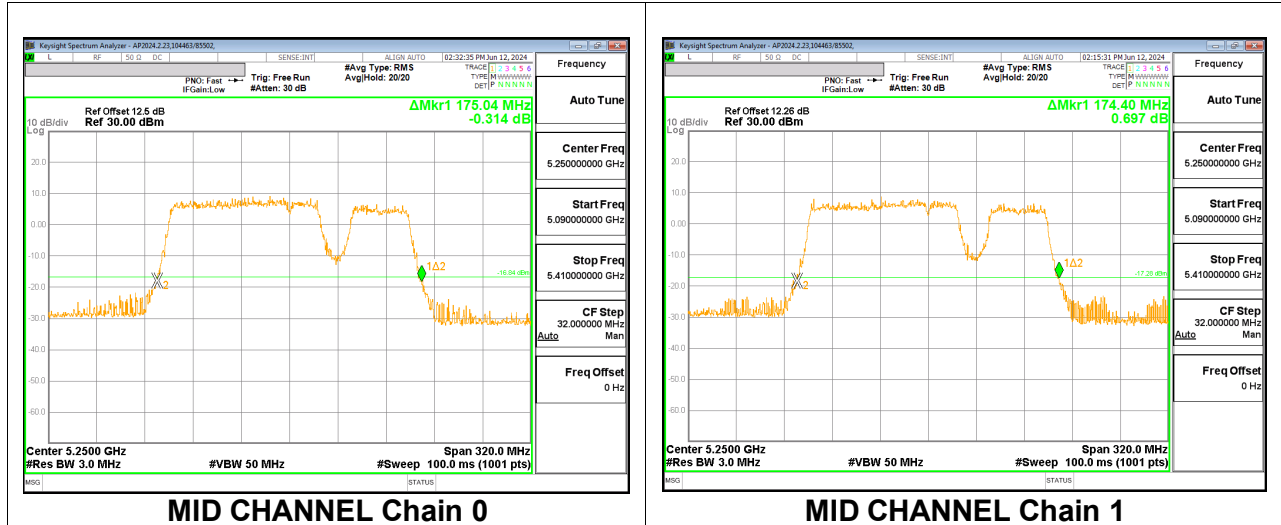
2TX CHAIN 0 + CHAIN 1 MODE: 996T+242T+484T (Non-Contiguous, MRU5)

Channel	Frequency	26 dB Bandwidth	26 dB Bandwidth
	(MHz)	Chain 0	Chain 1
	(MHz)	(MHz)	(MHz)
Mid	5250	177.60	176.32



2TX CHAIN 0 + CHAIN 1 MODE: 996T+242T+484T (Non-Contiguous, MRU6)

Channel	Frequency (MHz)	26 dB Bandwidth Chain 0 (MHz)	26 dB Bandwidth Chain 1 (MHz)
Mid	5250	175.04	174.40



2TX CHAIN 0 + CHAIN 1 MODE: 996T+484T+242T (Non-Contiguous, MRU7)

Channel	Frequency (MHz)	26 dB Bandwidth Chain 0 (MHz)	26 dB Bandwidth Chain 1 (MHz)
Mid	5250	176.00	175.36

