

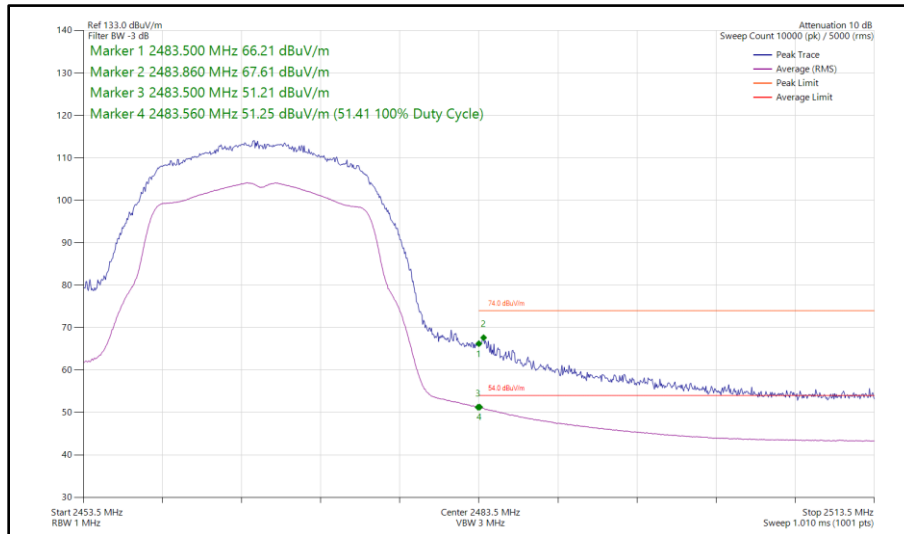


Figure 61 - 802.11g, SISO, Core 1 - 2467 MHz
Band Edge Frequency 2483.5 MHz

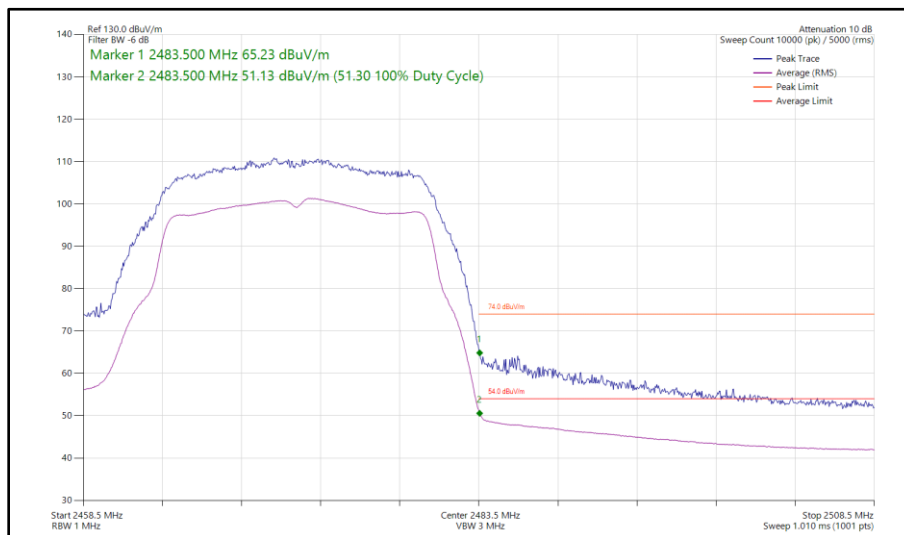


Figure 62 - 802.11g, SISO, Core 1 - 2472 MHz
Band Edge Frequency 2483.5 MHz

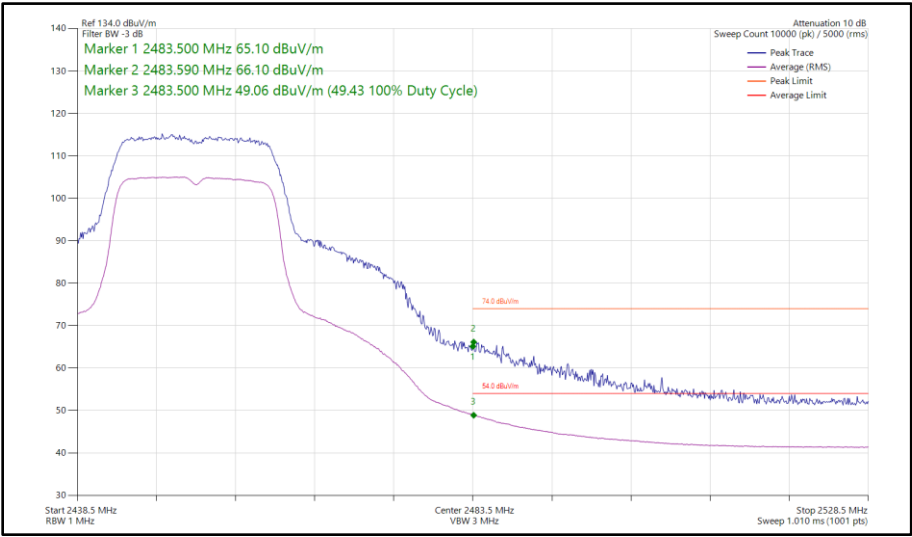


Figure 63 - 802.11n HT20, SISO, Core 1 - 2452 MHz
Band Edge Frequency 2483.5 MHz

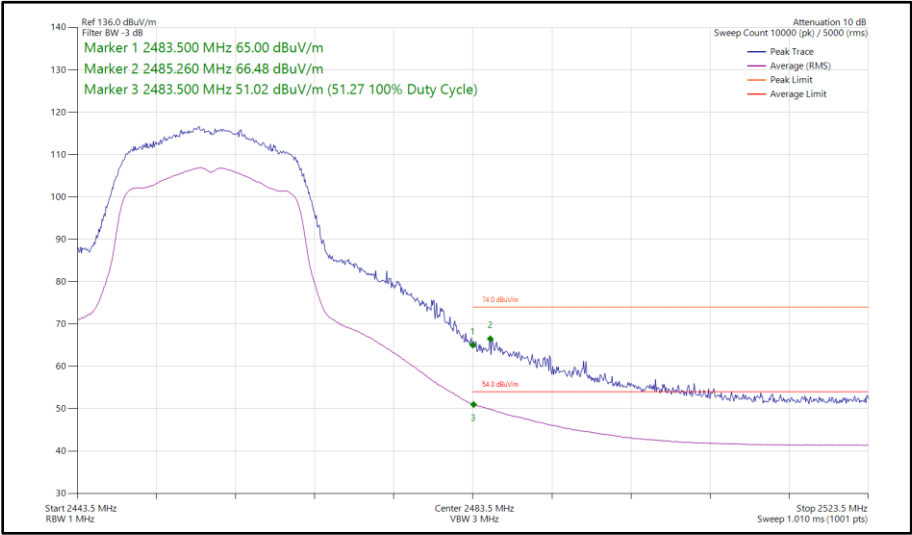


Figure 64 - 802.11n HT20, SISO, Core 1 - 2457 MHz
Band Edge Frequency 2483.5 MHz

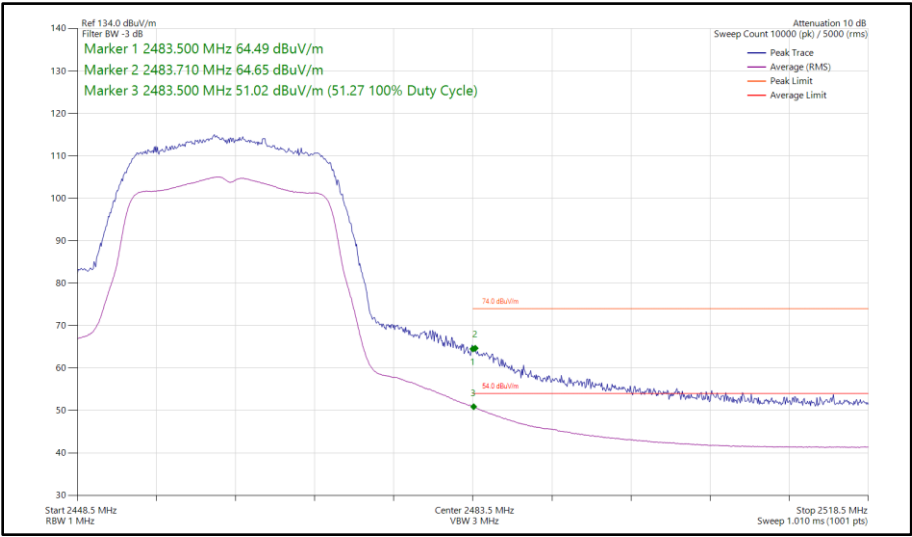


Figure 65 - 802.11n HT20, SISO, Core 1 - 2462 MHz
Band Edge Frequency 2483.5 MHz

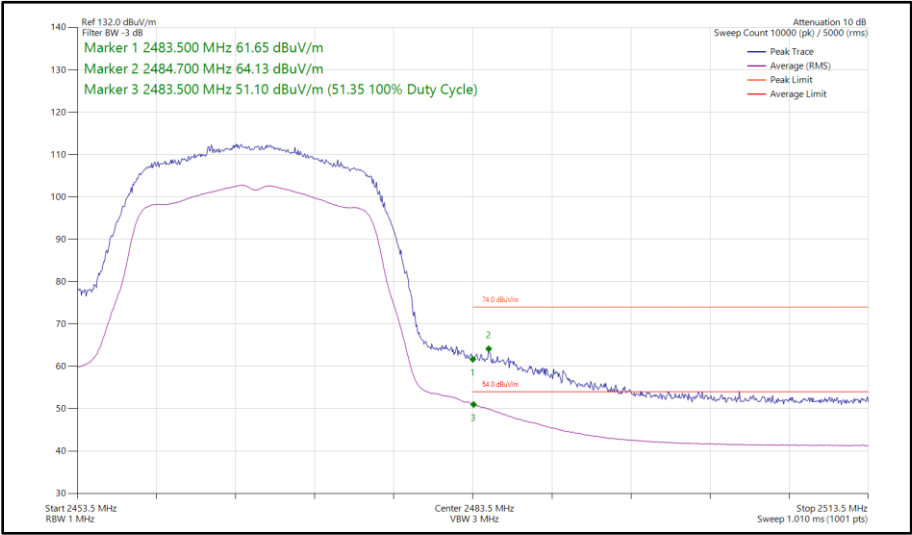


Figure 66 - 802.11n HT20, SISO, Core 1 - 2467 MHz
Band Edge Frequency 2483.5 MHz

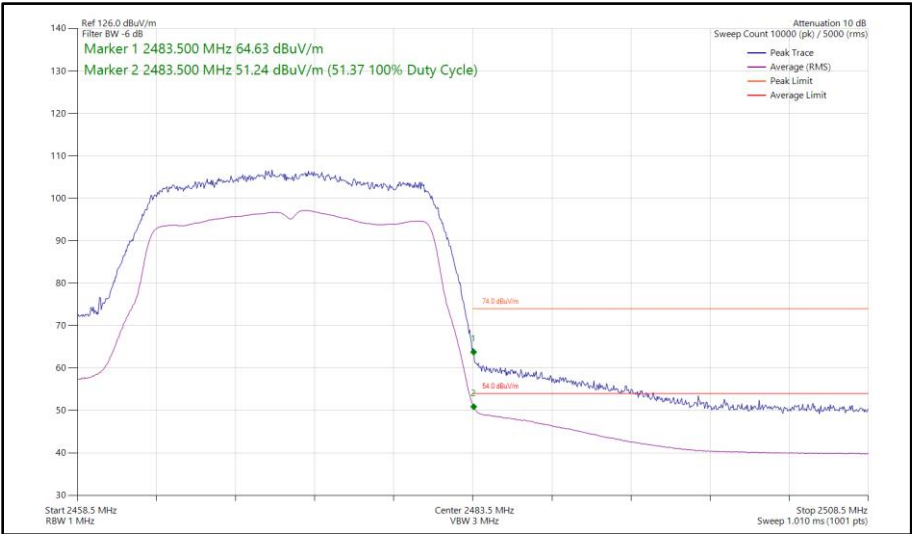


Figure 67 - 802.11n HT20, SISO, Core 1 - 2472 MHz
Band Edge Frequency 2483.5 MHz

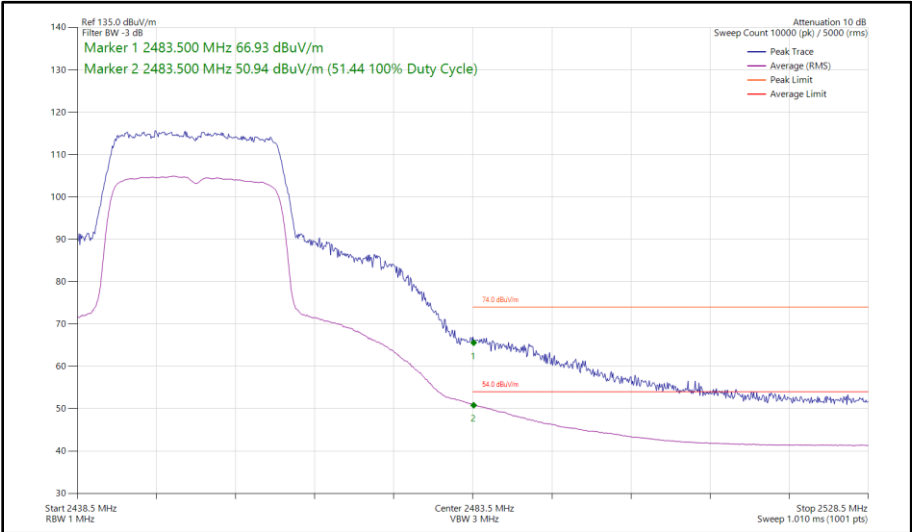


Figure 68 - 802.11ax HE20, SU, SISO, Core 1 - 2452 MHz
Band Edge Frequency 2483.5 MHz

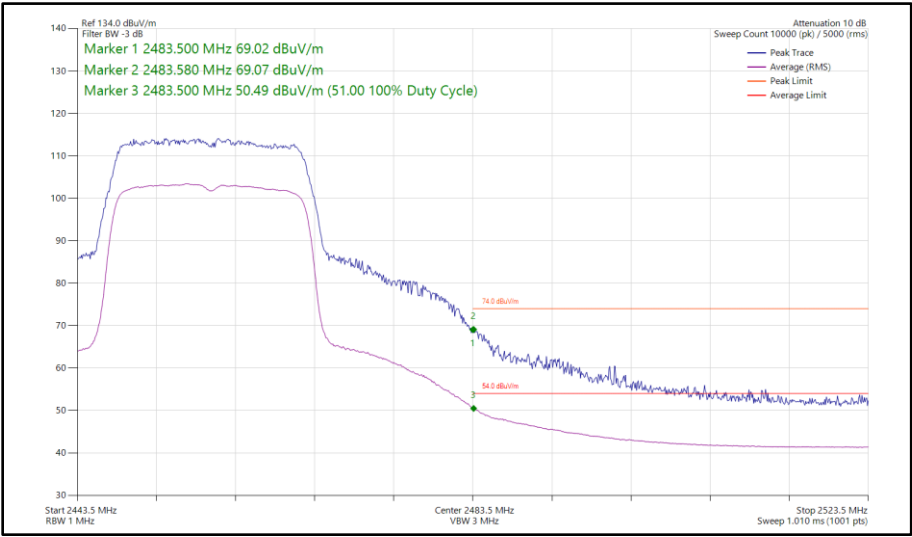


Figure 69 - 802.11ax HE20, SU, SISO, Core 1 - 2457 MHz
Band Edge Frequency 2483.5 MHz

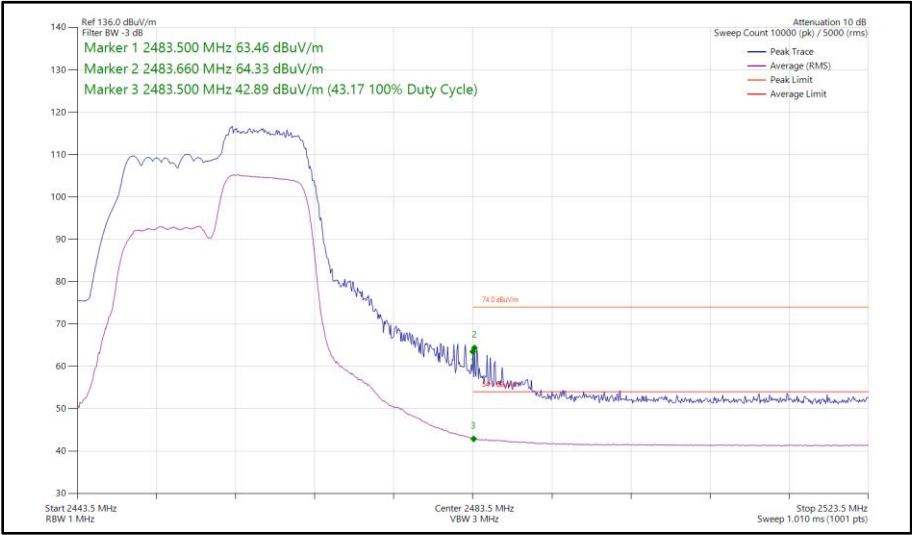


Figure 70 - 802.11ax HE20, RU 106-54, SISO, Core 1 - 2457 MHz
Band Edge Frequency 2483.5 MHz

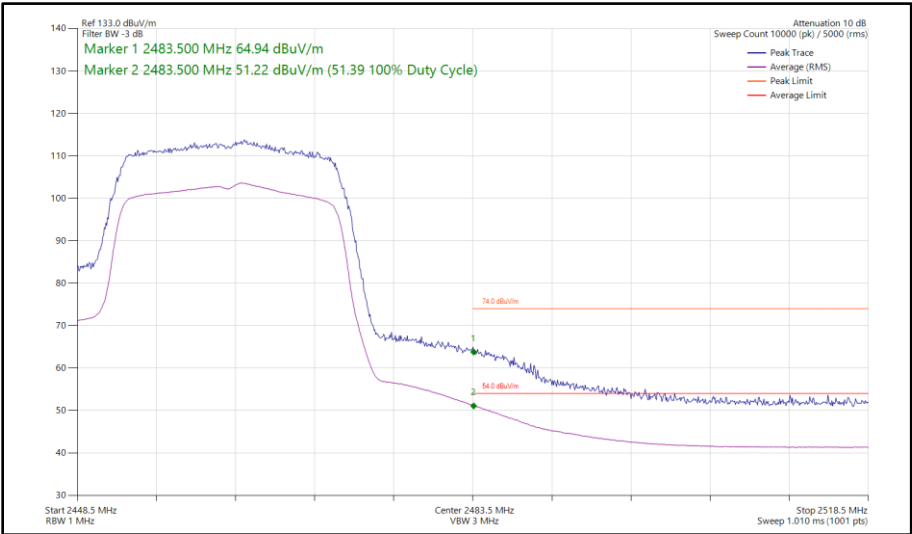


Figure 71 - 802.11ax HE20, SU, SISO, Core 1 - 2462 MHz
Band Edge Frequency 2483.5 MHz

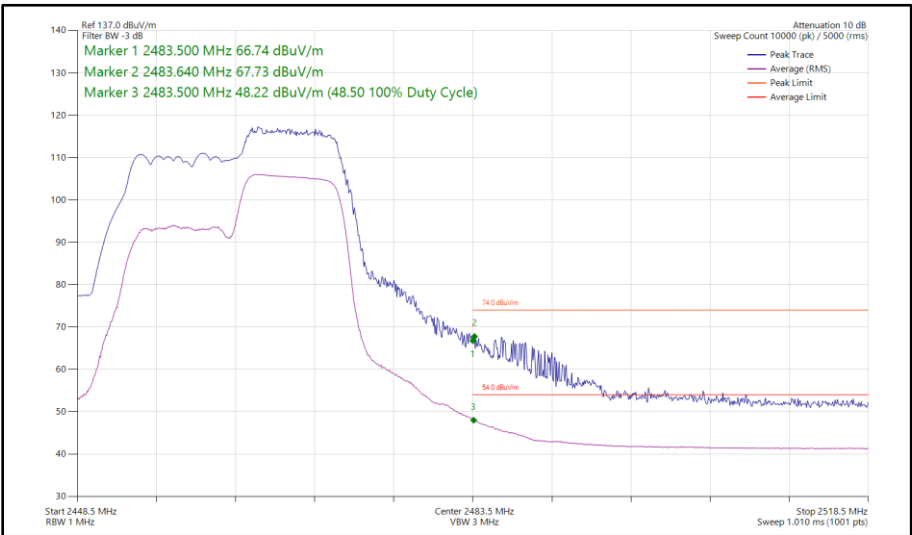


Figure 72 - 802.11ax HE20, RU 106-54, SISO, Core 1 - 2462 MHz
Band Edge Frequency 2483.5 MHz

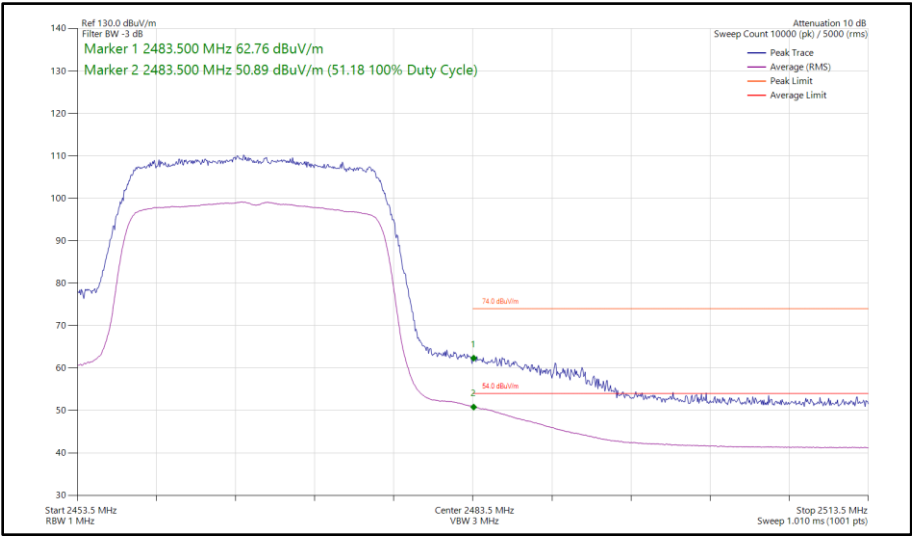


Figure 73 - 802.11ax HE20, SU, SISO, Core 1 - 2467 MHz
Band Edge Frequency 2483.5 MHz

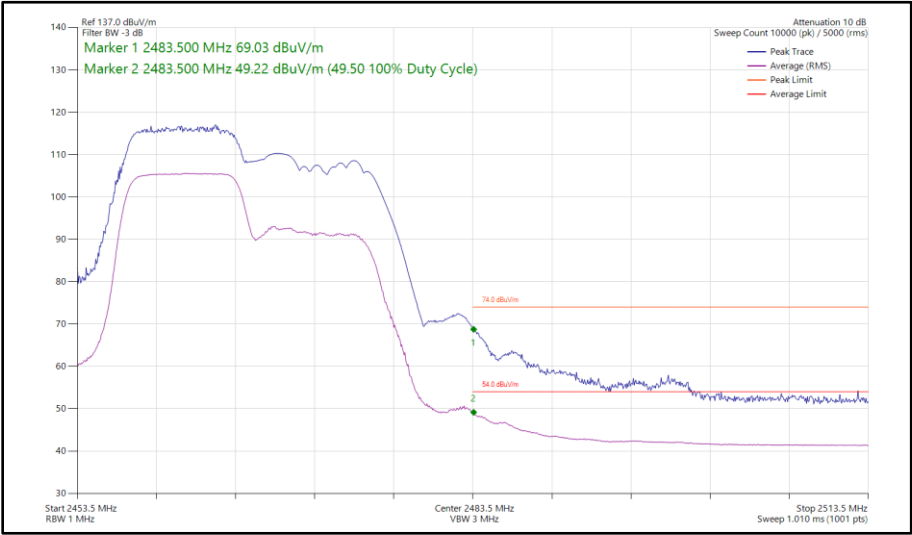


Figure 74 - 802.11ax HE20, RU 106-53, SISO, Core 1 - 2467 MHz
Band Edge Frequency 2483.5 MHz

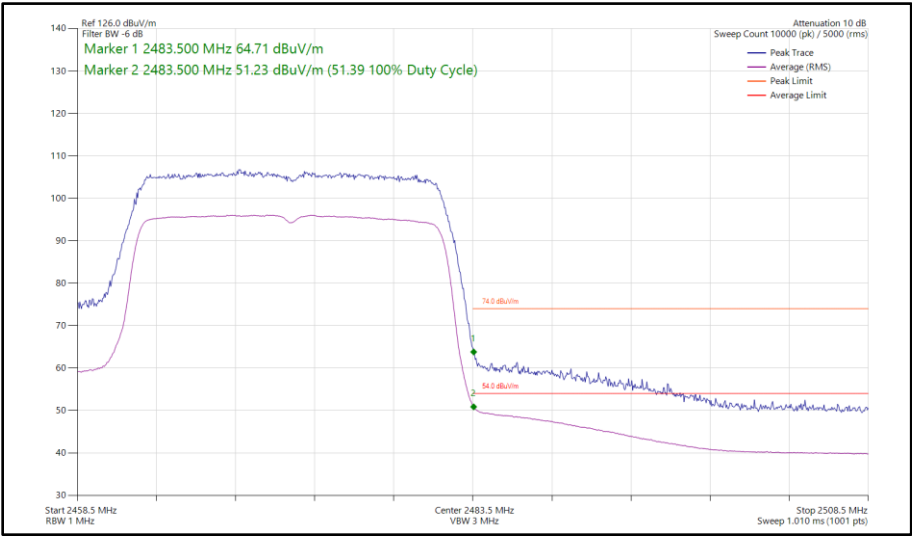


Figure 75 - 802.11ax HE20, SU, SISO, Core 1 - 2472 MHz
Band Edge Frequency 2483.5 MHz

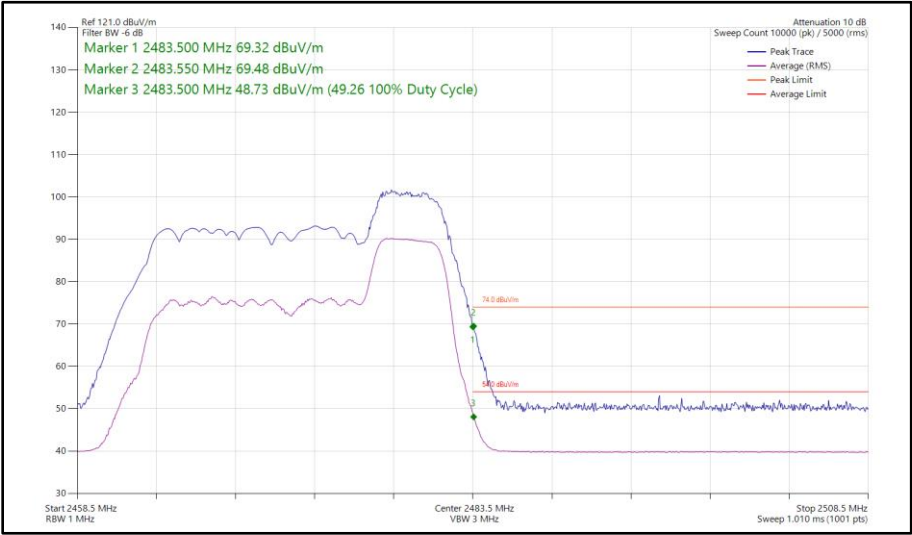


Figure 76 - 802.11ax HE20, RU 52-40, SISO, Core 1 - 2472 MHz
Band Edge Frequency 2483.5 MHz



20 MHz Bandwidth - Core 0 - Core 1 (CDD)

Mode	Data Rate/ MCS	Resource Size	Resource Index	TX Frequency (MHz)	Band Edge Frequency (MHz)	Peak Level (dBμV/m)	Average Level (dBuV/m)
802.11n HT20	MCS 2	-	-	2412	2390	65.63	51.45
802.11n HT20	MCS 2	-	-	2417	2390	63.30	51.42
802.11n HT20	MCS 7	-	-	2422	2390	67.41	51.35
802.11n HT20	MCS 7	-	-	2427	2390	69.12	50.41
802.11n HT20	MCS 7	-	-	2432	2390	66.41	48.02
802.11ax HE20	MCS 4x1	SU	-	2412	2390	66.42	51.28
802.11ax HE20	MCS 9x1	106	54	2412	2390	69.50	49.32
802.11ax HE20	MCS 9x1	SU	-	2417	2390	67.78	51.47
802.11ax HE20	MCS 9x1	106	53	2417	2390	63.71	46.55
802.11ax HE20	MCS 2x1	SU	-	2422	2390	65.67	51.23
802.11ax HE20	MCS 9x1	106	54	2422	2390	62.76	44.24
802.11ax HE20	MCS 2x1	SU	-	2427	2390	67.43	51.23
802.11ax HE20	MCS 9x1	SU	-	2432	2390	67.38	50.14
802.11n HT20	MCS 7	-	-	2452	2483.5	68.21	51.41
802.11n HT20	MCS 7	-	-	2457	2483.5	67.14	51.49
802.11n HT20	MCS 2	-	-	2462	2483.5	65.66	51.46
802.11n HT20	MCS 2	-	-	2467	2483.5	62.68	51.47
802.11n HT20	MCS 7	-	-	2472	2483.5	64.80	51.45
802.11ax HE20	MCS 4x1	SU	-	2452	2483.5	66.20	51.43
802.11ax HE20	MCS 4x1	SU	-	2457	2483.5	63.30	50.37
802.11ax HE20	MCS 9x1	106	54	2457	2483.5	62.34	44.19
802.11ax HE20	MCS 9x1	SU	-	2462	2483.5	67.48	51.32
802.11ax HE20	MCS 9x1	106	54	2462	2483.5	69.08	50.21
802.11ax HE20	MCS 9x1	SU	-	2467	2483.5	63.91	51.17
802.11ax HE20	MCS 9x1	106	54	2467	2483.5	64.80	51.20
802.11ax HE20	MCS 4x1	SU	-	2472	2483.5	64.52	51.43
802.11ax HE20	MCS 9x1	106	53	2472	2483.5	69.48	49.38

Table 9 - CDD Restricted Band Edge Results

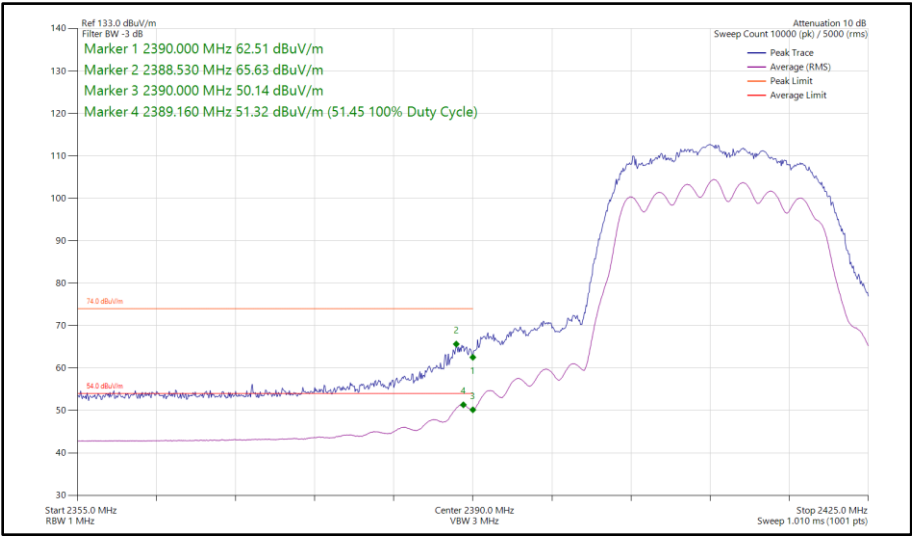


Figure 77 - 802.11n HT20, CDD, Core 0 - Core 1 - 2412 MHz
Band Edge Frequency 2390 MHz

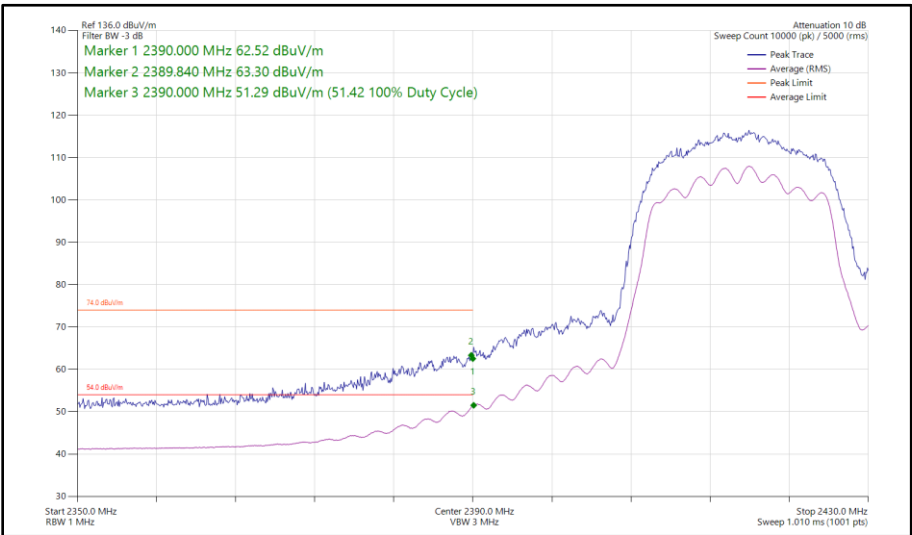


Figure 78 - 802.11n HT20, CDD, Core 0 - Core 1 - 2417 MHz
Band Edge Frequency 2390 MHz

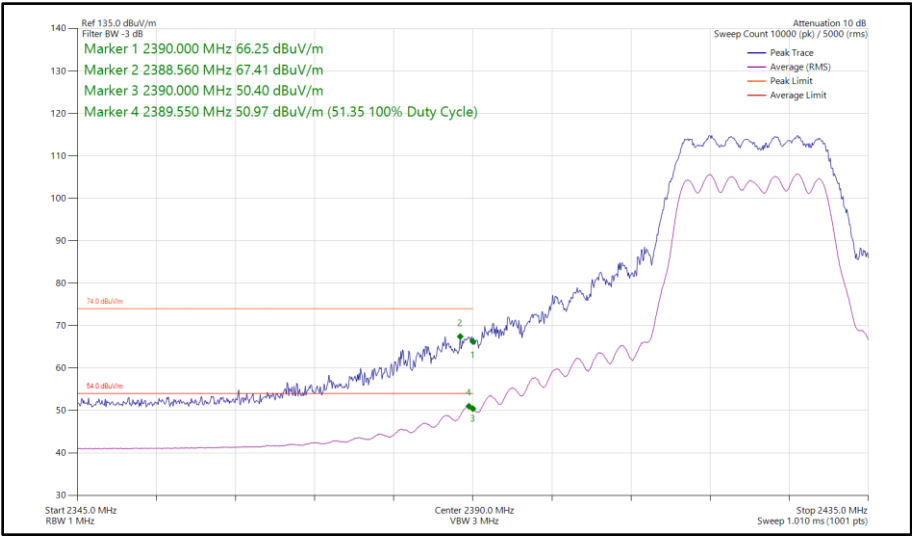


Figure 79 - 802.11n HT20, CDD, Core 0 - Core 1 - 2422 MHz
Band Edge Frequency 2390 MHz

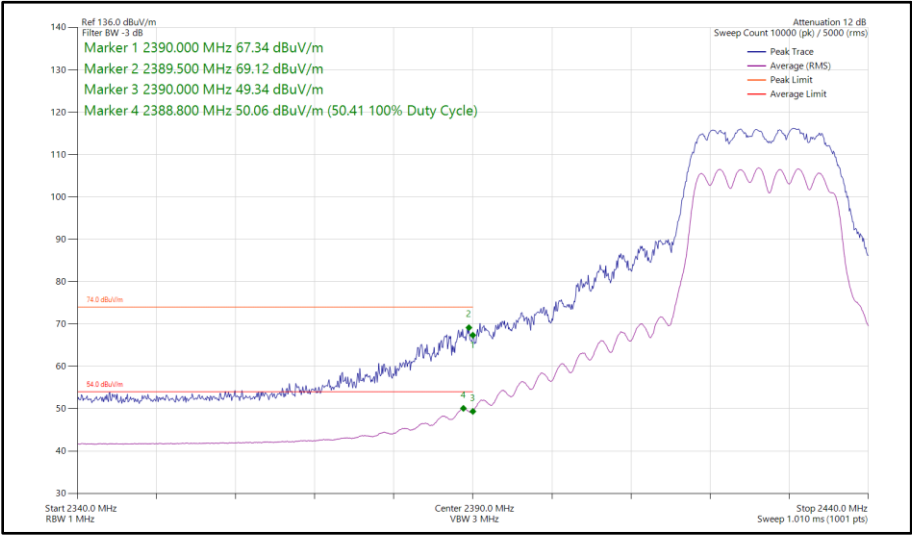


Figure 80 - 802.11n HT20, CDD, Core 0 - Core 1 - 2427 MHz
Band Edge Frequency 2390 MHz

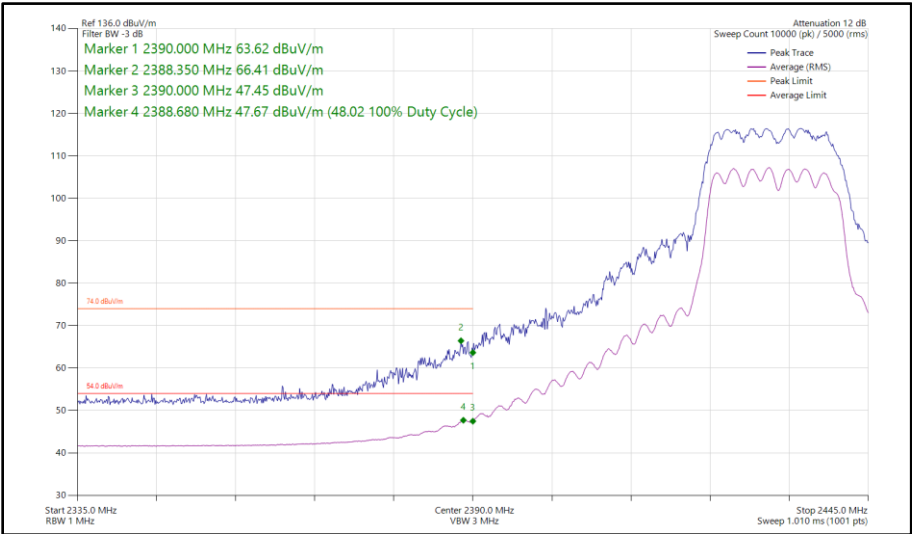


Figure 81 - 802.11n HT20, CDD, Core 0 - Core 1 - 2432 MHz
Band Edge Frequency 2390 MHz

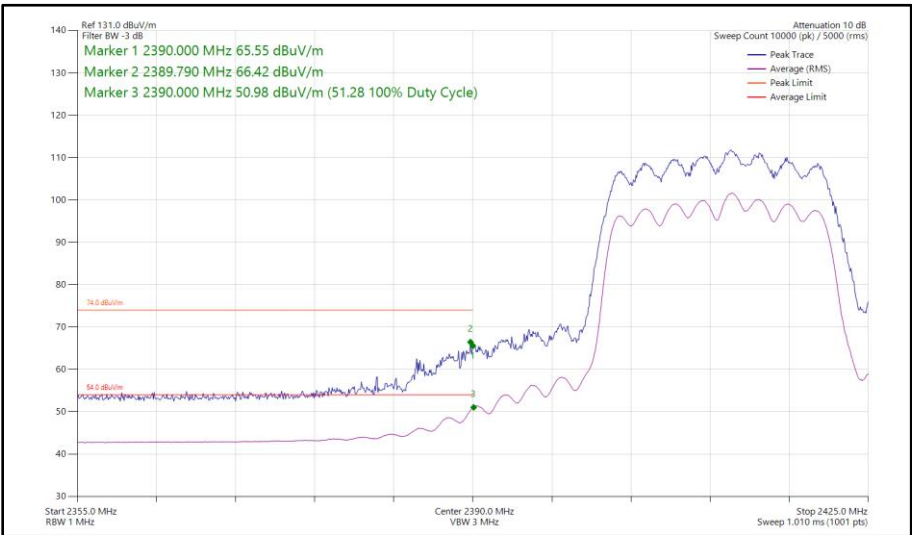


Figure 82 - 802.11ax HE20, SU, CDD, Core 0 - Core 1 - 2412 MHz
Band Edge Frequency 2390 MHz

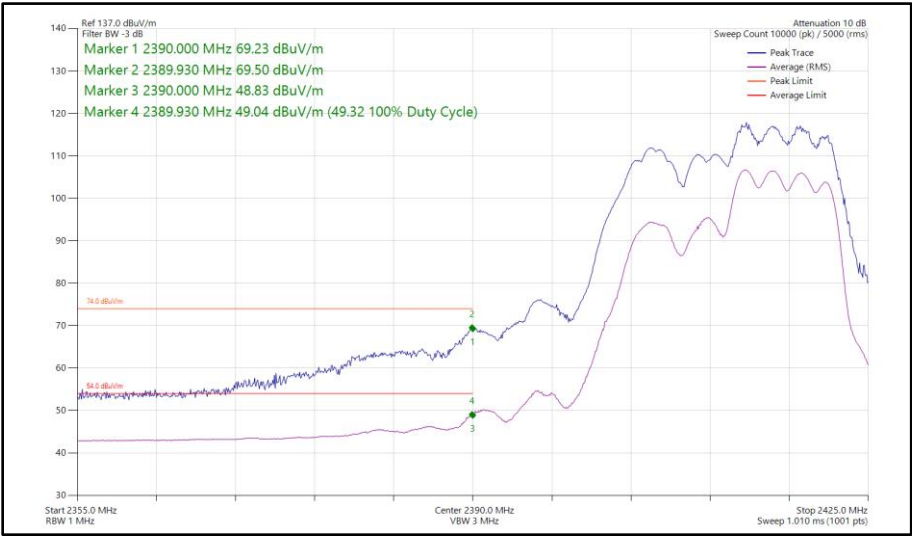


Figure 83 - 802.11ax HE20, RU 106-54, CDD, Core 0 - Core 1 - 2412 MHz
Band Edge Frequency 2390 MHz

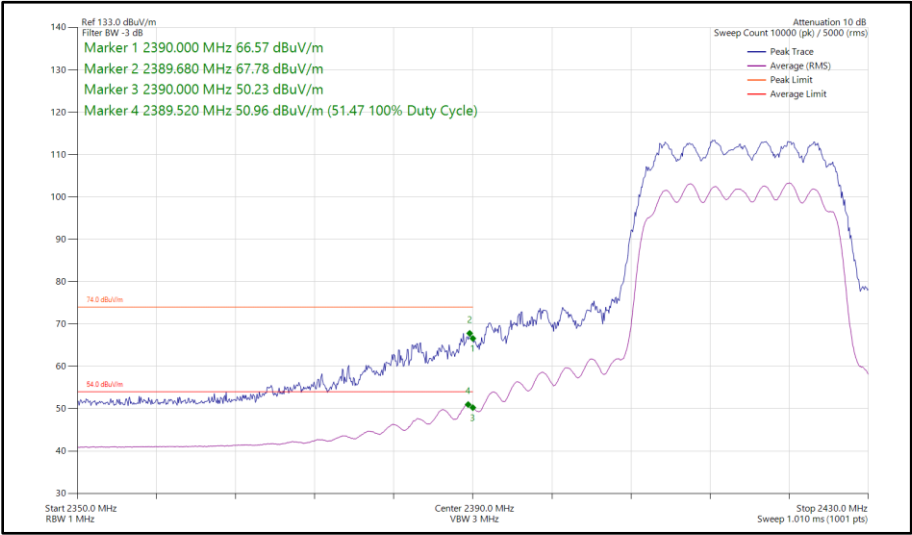


Figure 84 - 802.11ax HE20, SU, CDD, Core 0 - Core 1 - 2417 MHz
Band Edge Frequency 2390 MHz

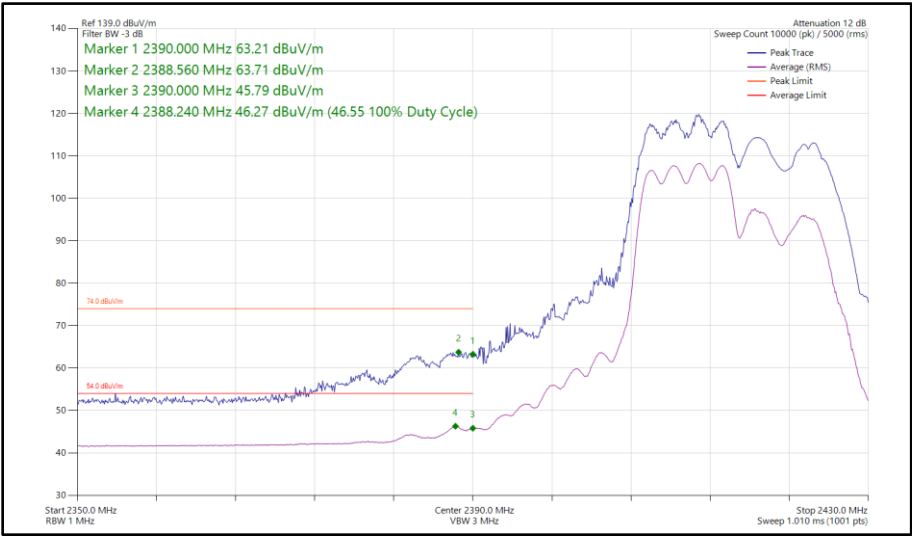


Figure 85 - 802.11ax HE20, RU 106-53, CDD, Core 0 - Core 1 - 2417 MHz
Band Edge Frequency 2390 MHz

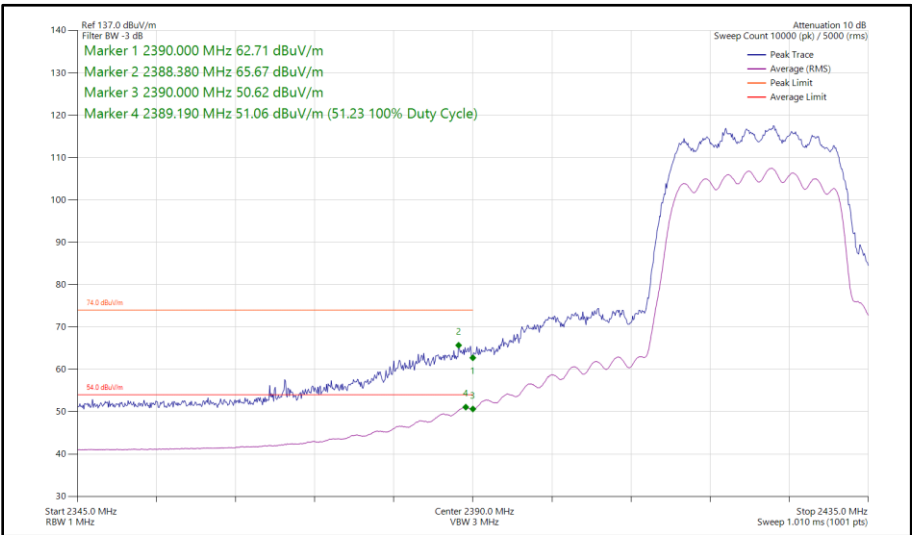


Figure 86 - 802.11ax HE20, SU, CDD, Core 0 - Core 1 - 2422 MHz
Band Edge Frequency 2390 MHz

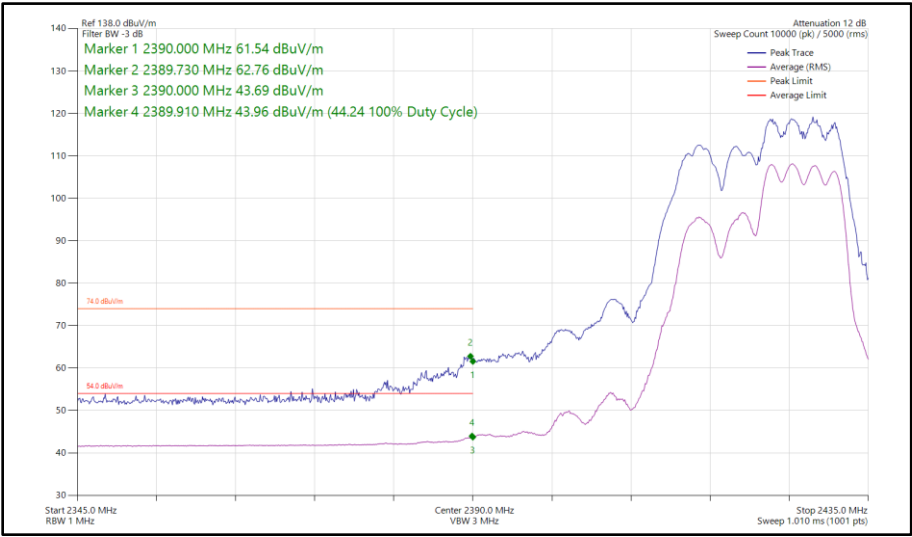


Figure 87 - 802.11ax HE20, RU 106-54, CDD, Core 0 - Core 1 - 2422 MHz
Band Edge Frequency 2390 MHz

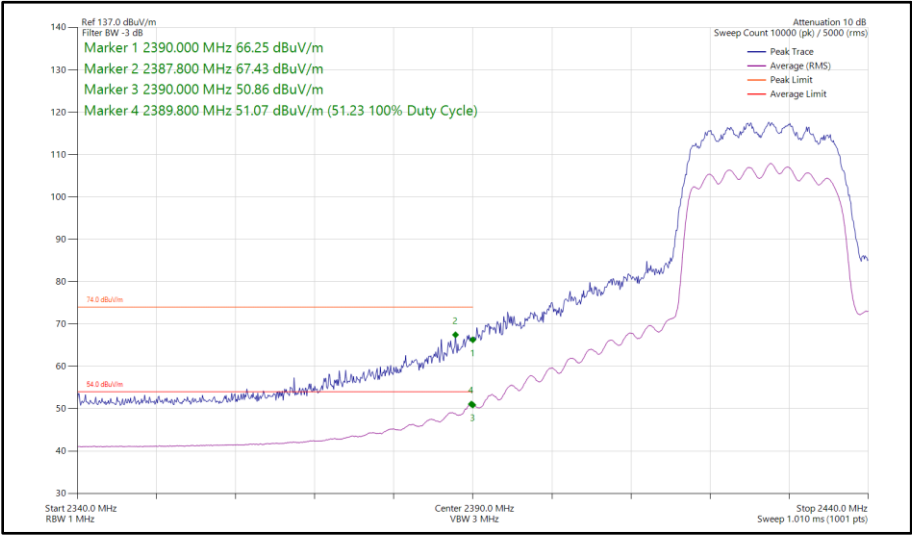


Figure 88 - 802.11ax HE20, SU, CDD, Core 0 - Core 1 - 2427 MHz
Band Edge Frequency 2390 MHz

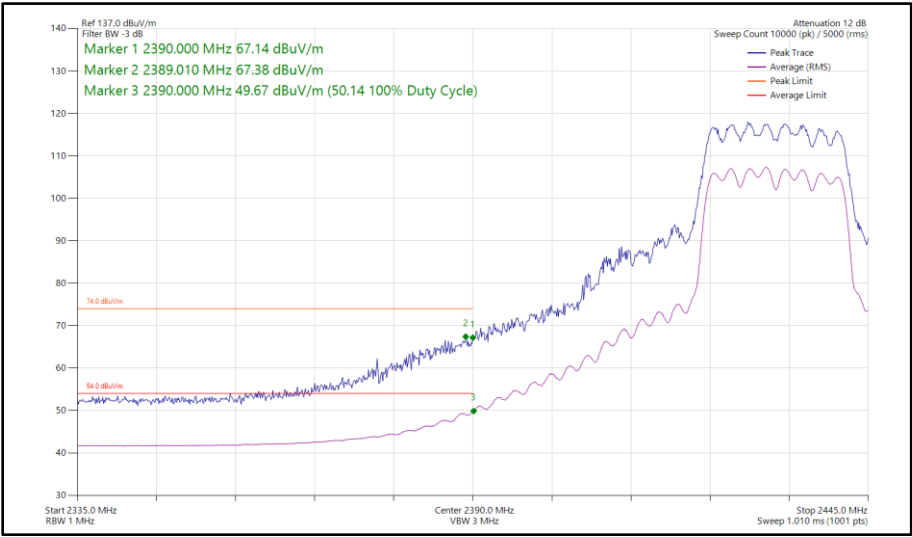


Figure 89 - 802.11ax HE20, SU, CDD, Core 0 - Core 1 - 2432 MHz
Band Edge Frequency 2390 MHz

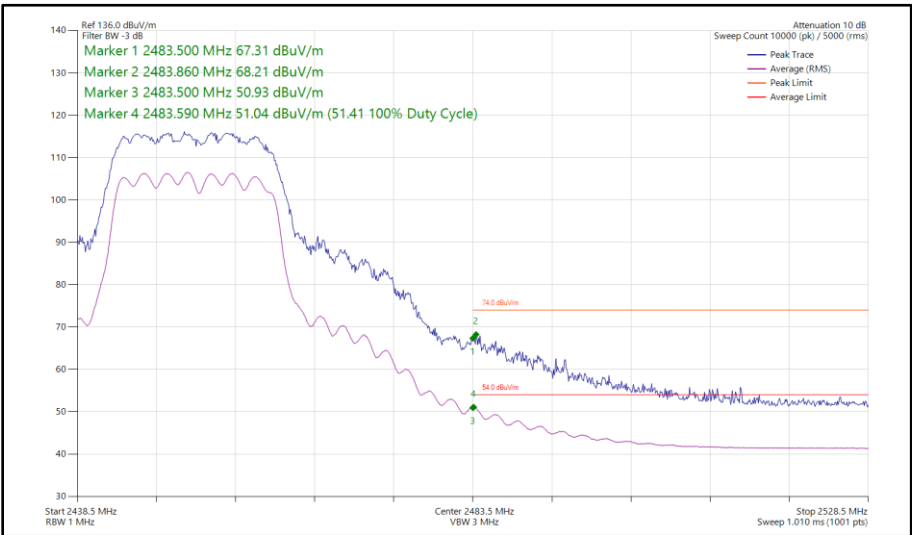


Figure 90 - 802.11n HT20, CDD, Core 0 - Core 1 - 2452 MHz
Band Edge Frequency 2483.5 MHz

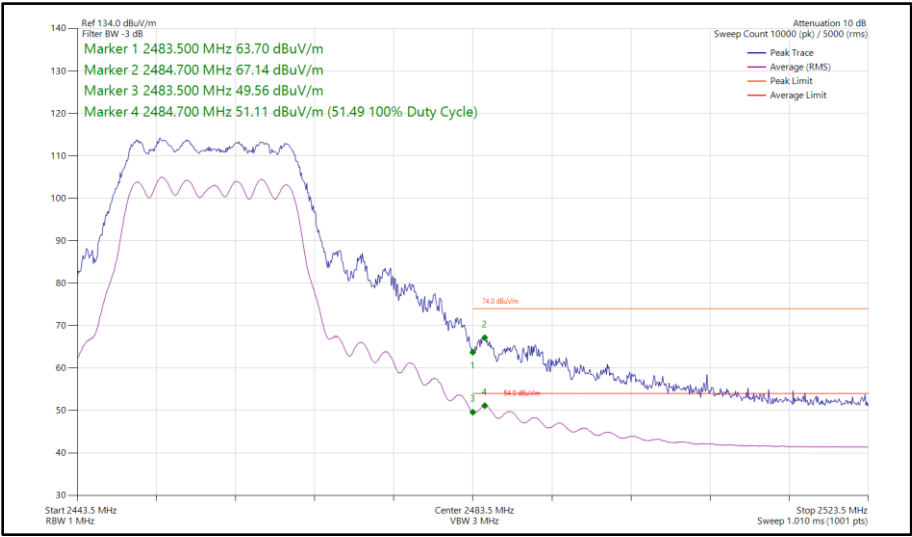


Figure 91 - 802.11n HT20, CDD, Core 0 - Core 1 - 2457 MHz
Band Edge Frequency 2483.5 MHz

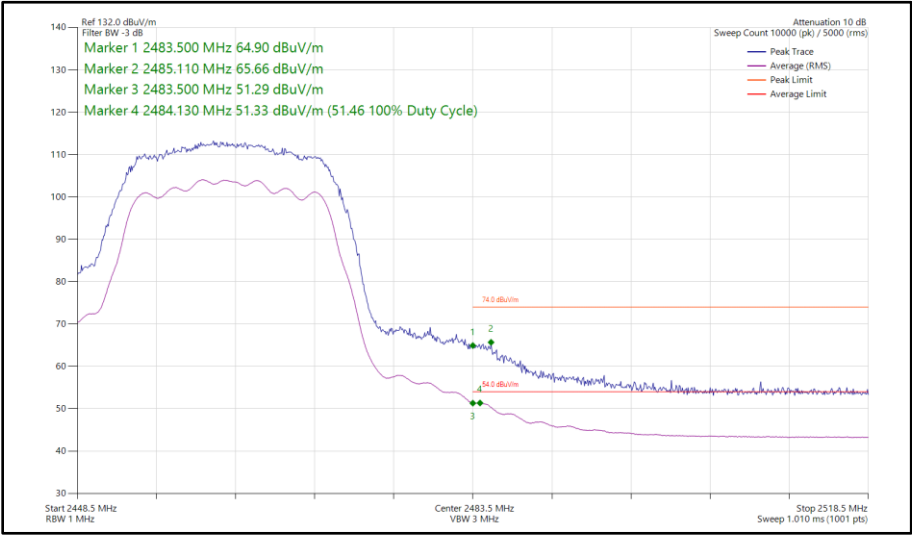


Figure 92 - 802.11n HT20, CDD, Core 0 - Core 1 - 2462 MHz
Band Edge Frequency 2483.5 MHz

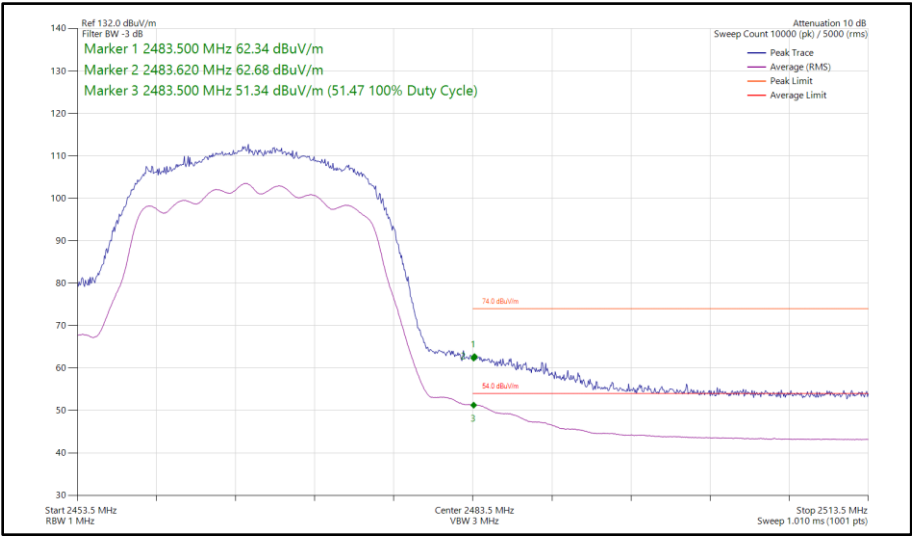


Figure 93 - 802.11n HT20, CDD, Core 0 - Core 1 - 2467 MHz
Band Edge Frequency 2483.5 MHz

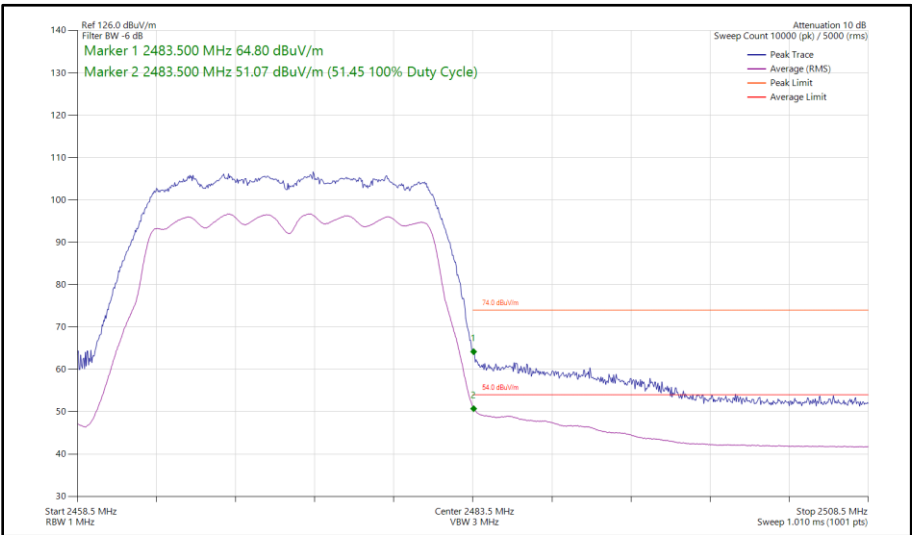


Figure 94 - 802.11n HT20, CDD, Core 0 - Core 1 - 2472 MHz
Band Edge Frequency 2483.5 MHz

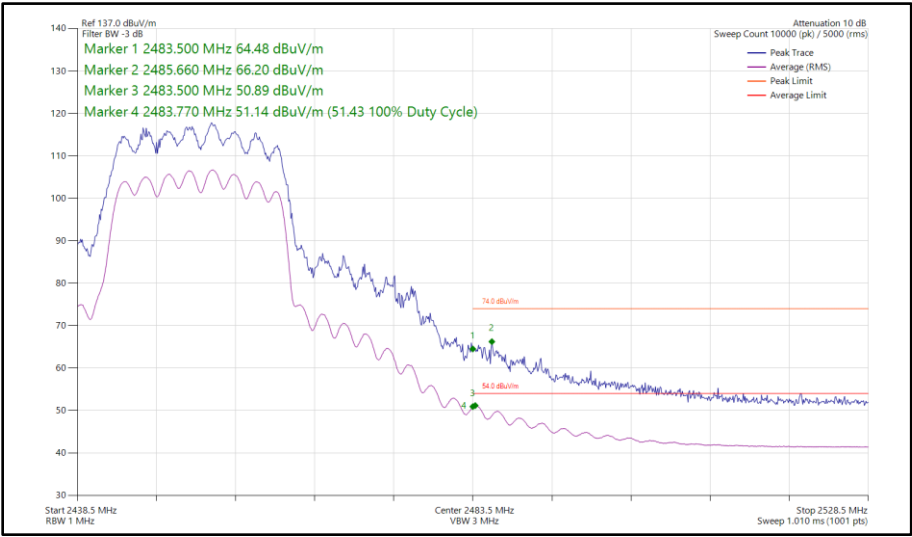


Figure 95 - 802.11ax HE20, SU, CDD, Core 0 - Core 1 - 2452 MHz
Band Edge Frequency 2483.5 MHz

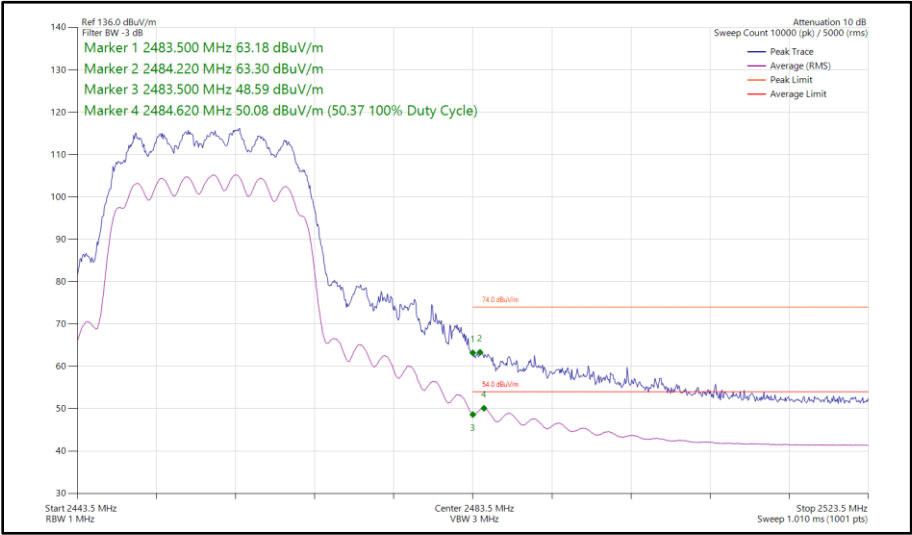


Figure 96 - 802.11ax HE20, SU, CDD, Core 0 - Core 1 - 2457 MHz
Band Edge Frequency 2483.5 MHz

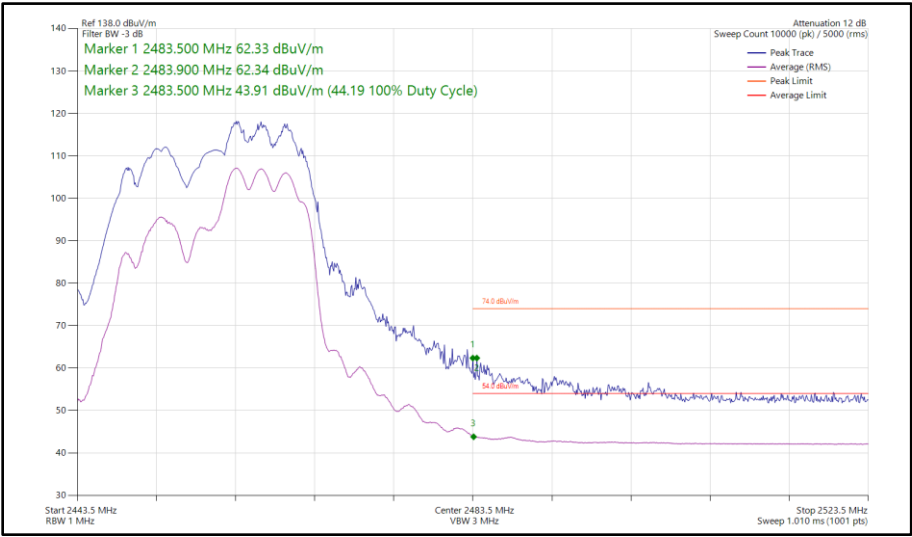


Figure 97 - 802.11ax HE20, RU 106-54, CDD, Core 0 - Core 1 - 2457 MHz
Band Edge Frequency 2483.5 MHz

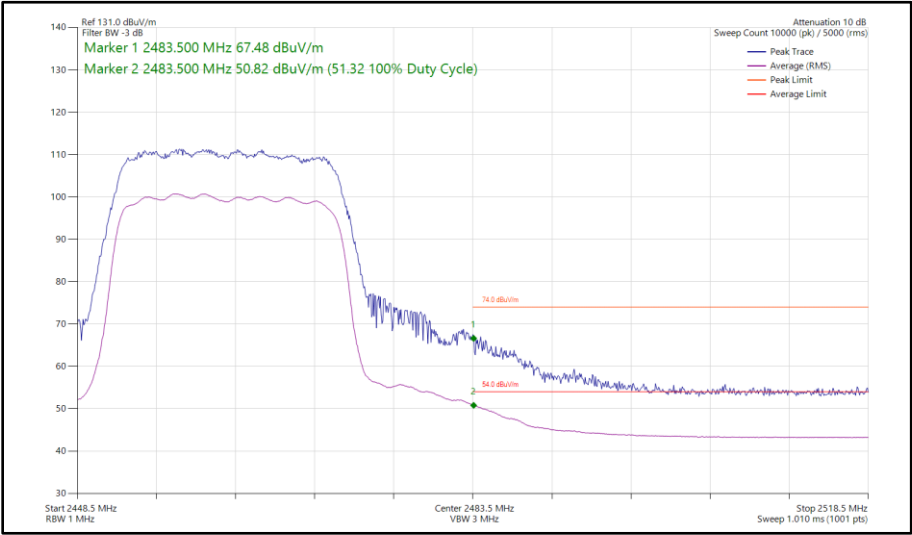


Figure 98 - 802.11ax HE20, SU, CDD, Core 0 - Core 1 - 2462 MHz
Band Edge Frequency 2483.5 MHz

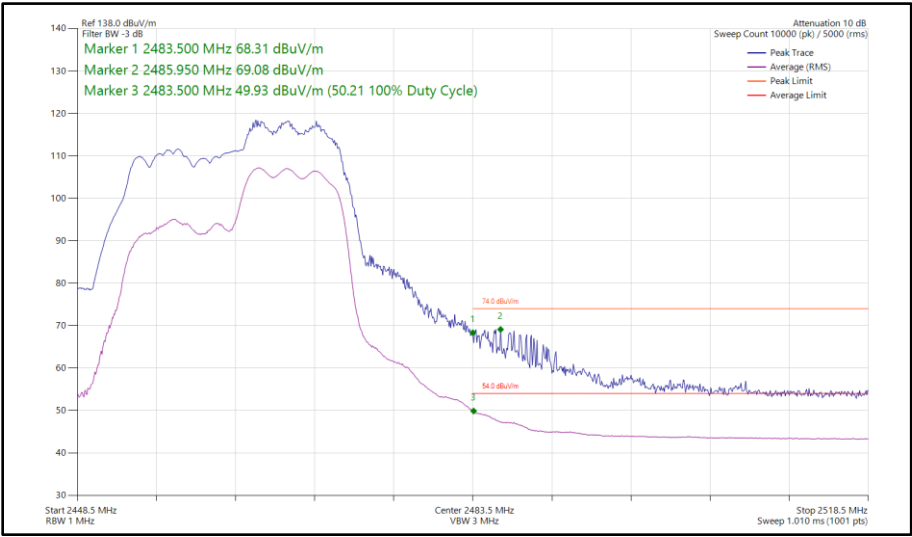


Figure 99 - 802.11ax HE20, RU 106-54, CDD, Core 0 - Core 1 - 2462 MHz
Band Edge Frequency 2483.5 MHz

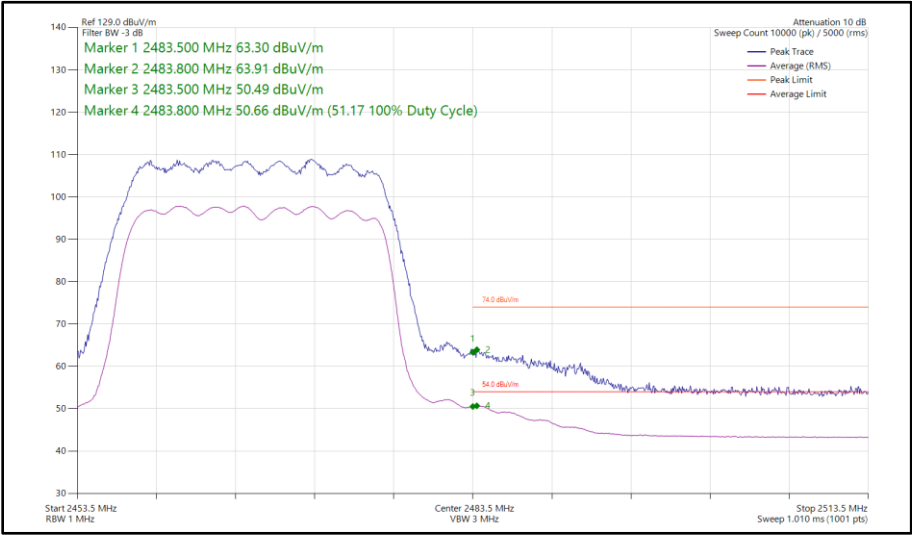


Figure 100 - 802.11ax HE20, SU, CDD, Core 0 - Core 1 - 2467 MHz
Band Edge Frequency 2483.5 MHz

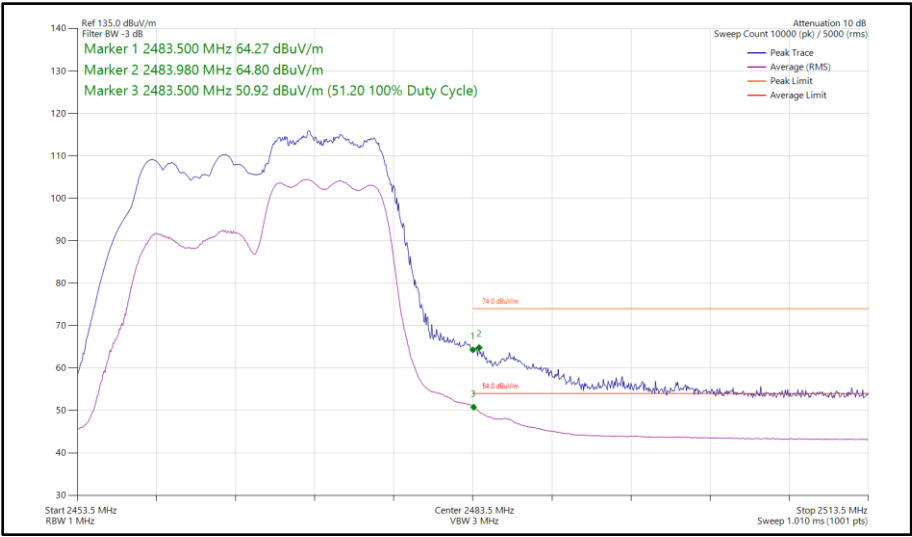


Figure 101 - 802.11ax HE20, RU 106-54, CDD, Core 0 - Core 1 - 2467 MHz
Band Edge Frequency 2483.5 MHz

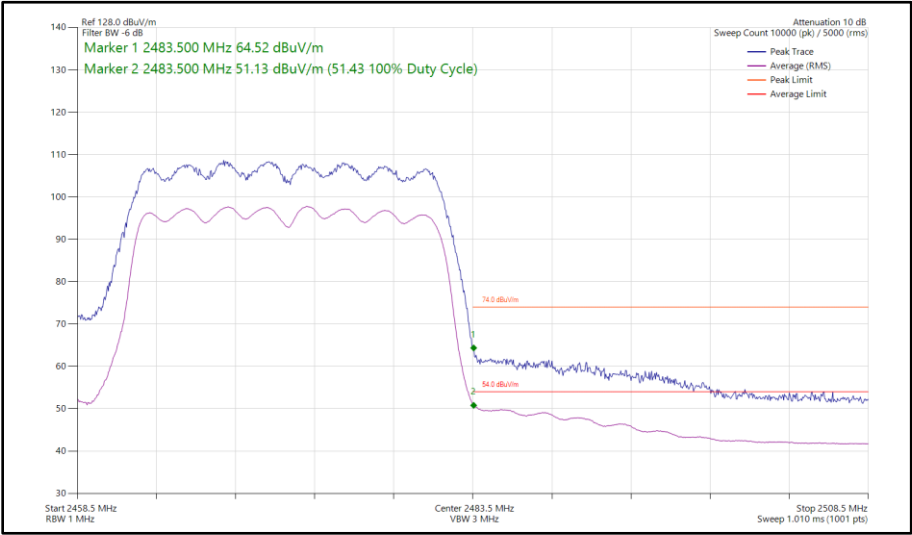


Figure 102 - 802.11ax HE20, SU, CDD, Core 0 - Core 1 - 2472 MHz
Band Edge Frequency 2483.5 MHz

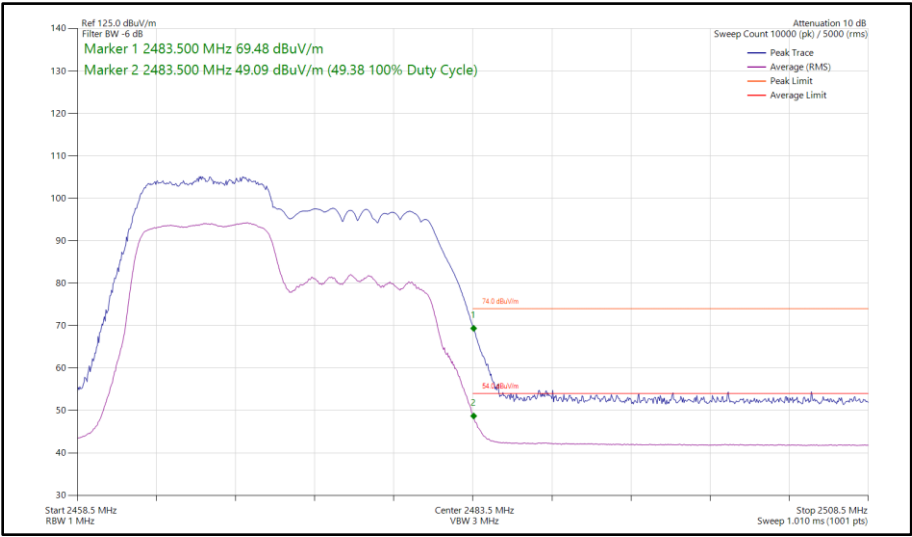


Figure 103 - 802.11ax HE20, RU 106-53, CDD, Core 0 - Core 1 - 2472 MHz
Band Edge Frequency 2483.5 MHz

FCC 47 CFR Part 15, Limit Clause 15.209

Frequency (MHz)	Field Strength (µV/m at 3 m)
30 to 88	100
88 to 216	150
216 to 960	200
Above 960	500

Table 10

ISED RSS-GEN, Limit Clause 8.9

Frequency (MHz)	Field Strength (µV/m at 3 m)
30 to 88	100
88 to 216	150
216 to 960	200
Above 960*	500

Table 11

*Unless otherwise specified, for all frequencies greater than 1 GHz, the radiated emission limits for licence-exempt radio apparatus stated in applicable RSSs (including RSS-Gen) are based on measurements using a linear average detector function having a minimum resolution bandwidth of 1 MHz. If an average limit is specified for the EUT, then the peak emission shall also be measured with instrumentation properly adjusted for such factors as pulse desensitization to ensure the peak emission is less than 20 dB above the average limit.



2.1.7 Test Location and Test Equipment Used

This test was carried out in RF Chamber 14, RF Chamber 15 and RF Chamber 17.

Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Expiry Date
Emissions Software	TUV SUD	EmX V3.4.2	5125	-	Software
Test Receiver	Rohde & Schwarz	ESW44	5379	12	12-Dec-2024
EMI Test Receiver	Rohde & Schwarz	ESW44	5911	12	11-Sep-2024
Test Receiver	Rohde & Schwarz	ESW44	5914	12	24-May-2025
1500W (300V 12A) AC Power Supply	iTech	IT7324	5955	-	O/P Mon
1500W (300V 12A) AC Power Supply	iTech	IT7324	5956	-	O/P Mon
5m Semi-Anechoic Chamber (Dual-Axis)	Albatross Projects	RF Chamber 14	5958	36	26-Apr-2025
Compact Antenna Mast	Maturo Gmbh	CAM4.0-P	5959	-	TU
Mast & Turntable Controller	Maturo Gmbh	FCU3.0	5960	-	TU
Tilt Antenna Mast	Maturo Gmbh	BAM4.5-P	5961	-	TU
Turntable	Maturo Gmbh	TT1.5SI	5962	-	TU
5m Semi-Anechoic Chamber (Dual-Axis), Chamber 15	Albatross Projects	RF Chamber 15	5963	36	28-Apr-2025
Compact Antenna Mast	Maturo Gmbh	CAM4.0-P	5964	-	TU
Mast & Turntable Controller	Maturo Gmbh	FCU3.0	5966	-	TU
Tilt Antenna Mast	Maturo Gmbh	BAM4.5-P	5967	-	TU
Turntable	Maturo Gmbh	TT1.5SI	5968	-	TU
Cable (SMA to SMA 1m)	Junkosha	MWX221-01000AMSAMS/A	5997	12	14-Sep-2024
Cable (SMA to SMA 4.5m)	Junkosha	MWX221-04500AMSAMS/A	6002	12	14-Sep-2024
Cable (SMA to SMA 1m)	Junkosha	MWX221-01000AMSAMS/A	6008	12	20-May-2025
Cable (N to N 1m)	Junkosha	MWX221-01000AMSAMS/B	6009	12	20-May-2025
Cable (SMA to SMA 6.5m)	Junkosha	MWX221-06500AMSAMS/B	6014	-	24-Aug-2024
Cable (SMA to SMA 3m)	Junkosha	MWX221-03000AMSAMS/A	6021	12	14-Sep-2024
Horn Antenna (1-10 GHz)	Schwarzbeck	BBHA9120B	6141	12	05-May-2025
Horn Antenna (1-10 GHz)	Schwarzbeck	BBHA9120B	6142	12	05-May-2025
SAC Switch Unit	TUV SUD	TUV_SSU_001	6144	12	11-Dec-2024
Digital Multimeter	Fluke	115	6145	12	06-Jun-2025
Digital Multimeter	Fluke	115	6146	12	06-Jun-2025
Digital Multimeter	Fluke	115	6147	12	06-Jun-2025
SAC Switch Unit	TUV SUD	TUV_SSU_001	6190	12	22-Dec-2024
SAC Switch Unit	TUV SUD	TUV_SSU_001	6191	12	18-Dec-2024



Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Expiry Date
Cable (SMA to SMA 1m)	Junkosha	MWX221-01000AMSAMS/A	6315	12	04-Feb-2025
Cable (SMA to SMA 3m)	Junkosha	MWX221-03000AMSAMS/A	6316	12	04-Feb-2025
Cable (SMA to SMA 8m)	Junkosha	MWX221-08000AMSAMS/B	6319	-	04-Feb-2025
Humidity and Temperature Meter	R.S Components	1364	6346	12	06-Mar-2025
Humidity & Temperature meter	R.S Components	1364	6348	12	06-Mar-2025
Horn Antenna (1–10.5 GHz)	Schwarzbeck	BBHA 9120 B	6457	12	05-May-2025
Humidity and Temperature Meter	R.S Components	1364	6486	12	04-Jun-2025
AC Power Supply	iTech	IT7324	6657	-	O/P Mon
3m Semi-Anechoic Chamber	Albatross Projects	RF Chamber 17	6658	36	28-Jan-2026
Mast and Turntable Controller	Maturo Gmbh	FCU3.0	6659	-	TU
Tilt Antenna Mast	Maturo Gmbh	BAM4.5-P	6660	-	TU
Turntable	Maturo Gmbh	TT1.5SI	6661	-	TU
1m Cable	Junkosha	MWX241-01000AMSAMS/B	6740	12	01-Feb-2025
1m Cable	Junkosha	MWX241-01000AMSAMS/B	6741	12	01-Feb-2025
6.5m Cable	Junkosha	MWX221-06500AMSAMS/B	6744	12	01-Feb-2025
8m Cable	Junkosha	MWX221-08000AMSAMS/B	6748	12	01-Feb-2025

Table 12

TU - Traceability Unscheduled
O/P Mon - Output Monitored using calibrated equipment



2.2 Emission Bandwidth

2.2.1 Specification Reference

FCC 47 CFR Part 15C, Clause 15.247 (a)(2)
ISED RSS-247, Clause 5.2
ISED RSS-GEN, Clause 6.7

2.2.2 Equipment Under Test and Modification State

A3143, S/N: VCXLW6763J - Modification State 0

2.2.3 Date of Test

18-October-2024

2.2.4 Test Method

This test was performed in accordance with ANSI C63.10, clause 11.8.1 for 6 dB BW and 6.9.3 for 99% occupied bandwidth measurements.

2.2.5 Environmental Conditions

Ambient Temperature	21.5 °C
Relative Humidity	58.9 %



2.2.6 Test Results

2.4 GHz WLAN

SISO

Protocol	6 dB Bandwidth (MHz)	
	Minimum	Maximum
802.11b	8.640	9.120
802.11g	15.240	16.140
802.11n HT20	15.240	17.460
802.11ax HE20 SU	18.840	19.080

Table 13 - 6 dB Bandwidth Summary Results - SISO

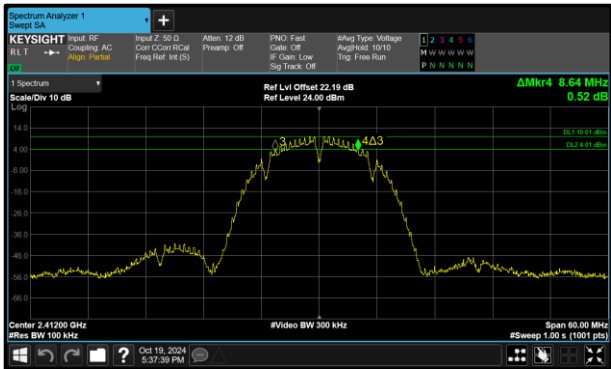


Figure 104 - 802.11b Minimum 6 dB EBW

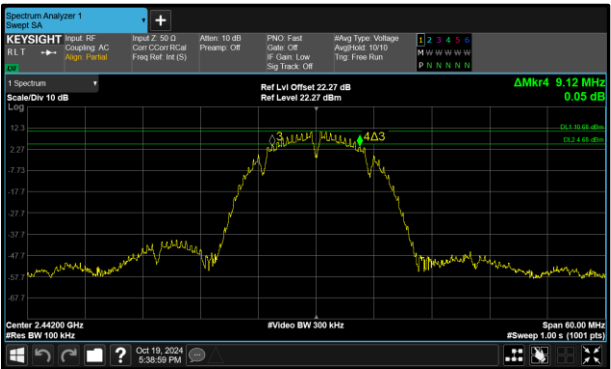


Figure 105 - 802.11b Maximum 6 dB EBW

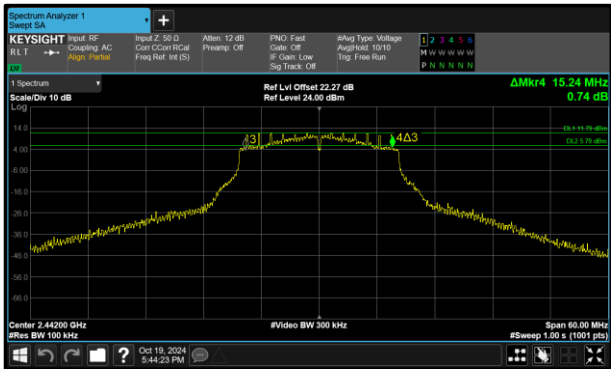


Figure 106 - 802.11g Minimum 6 dB EBW

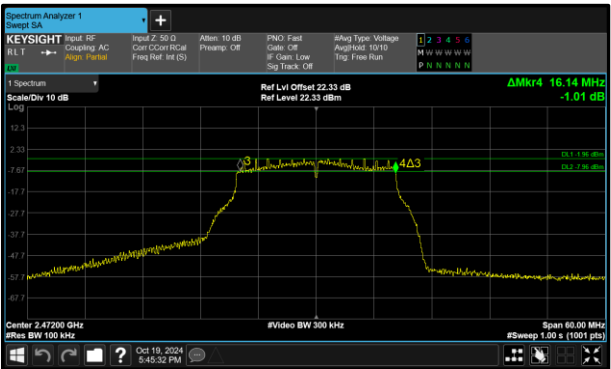


Figure 107 - 802.11g Maximum 6 dB EBW

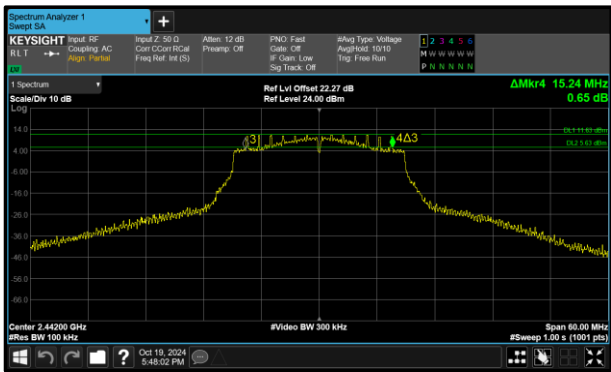


Figure 108 - 802.11n HT20 Minimum 6 dB EBW

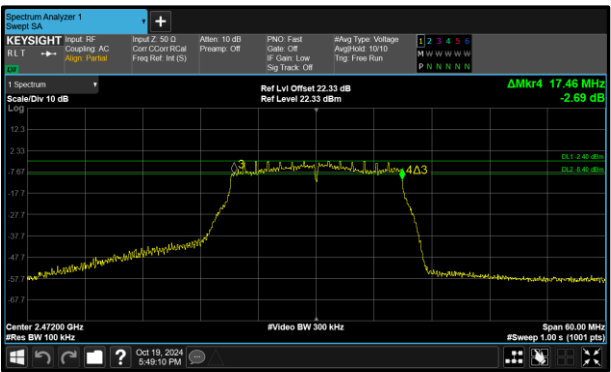


Figure 109 - 802.11n HT20 Maximum 6 dB EBW

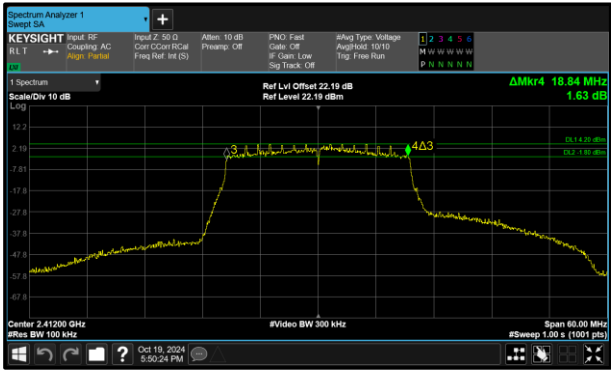


Figure 110 - 802.11ax HE20 SU Minimum 6 dB
EBW

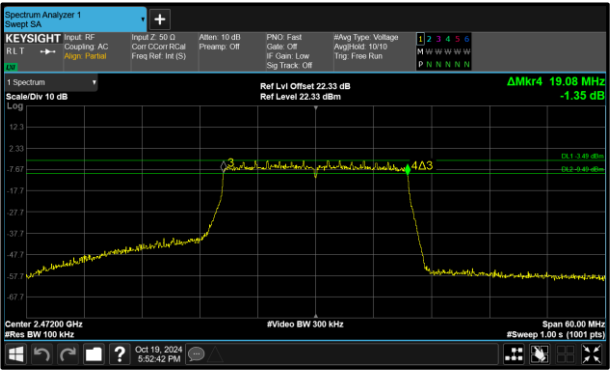


Figure 111 - 802.11ax HE20 SU Maximum 6 dB
EBW



Protocol	99% Bandwidth (MHz)	
	Minimum	Maximum
802.11b	12.900	12.960
802.11g	16.440	16.620
802.11n HT20	17.580	17.700
802.11ax HE20 SU	18.900	19.020

Table 14 - 99% Bandwidth Summary Results - SISO

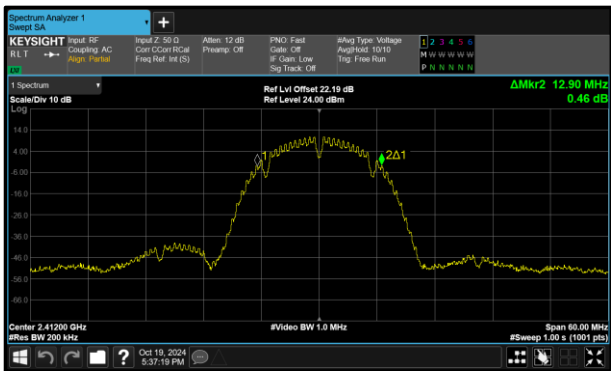


Figure 112 - 802.11b Minimum 99% OBW

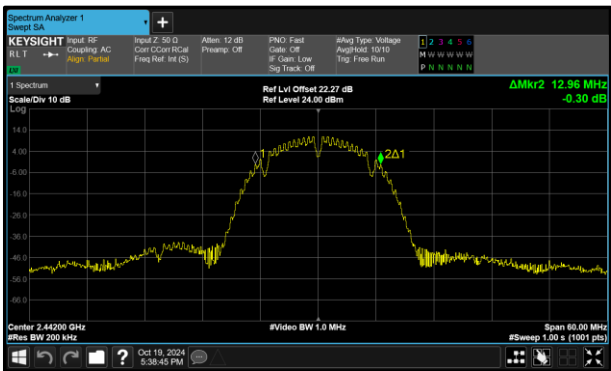


Figure 113 - 802.11b Maximum 99% OBW

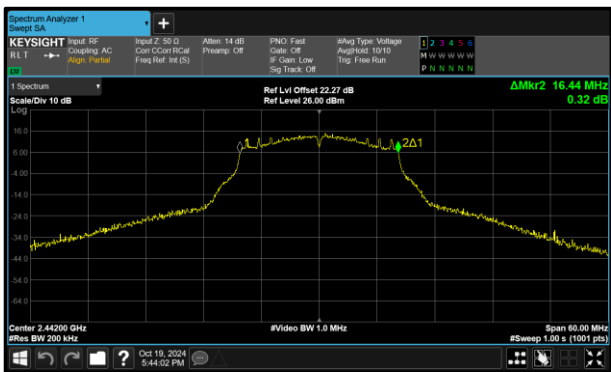


Figure 114 - 802.11g Minimum 99% OBW

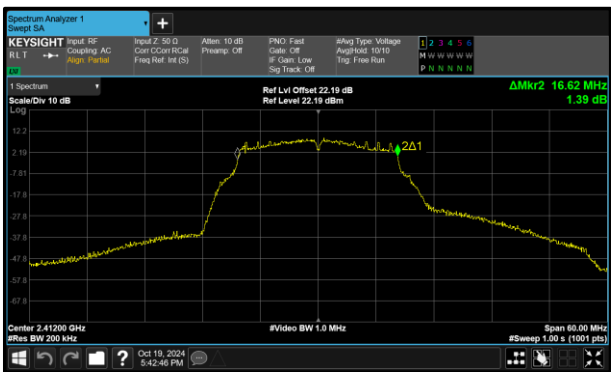


Figure 115 - 802.11g Maximum 99% OBW

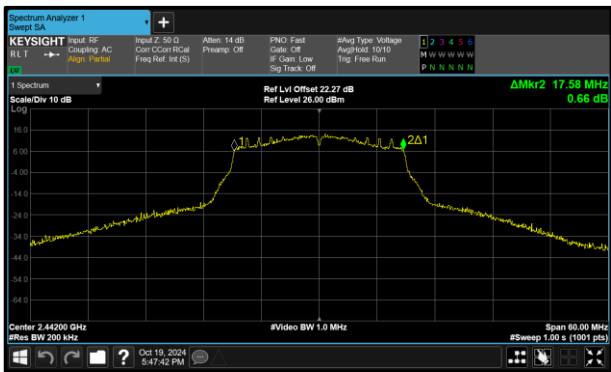


Figure 116 - 802.11n HT20 Minimum 99% OBW

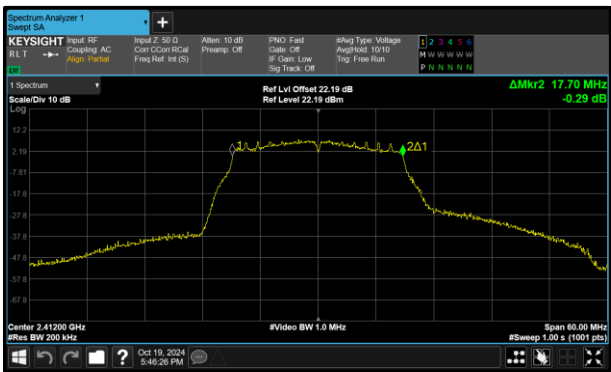


Figure 117 - 802.11n HT20 Maximum 99% OBW

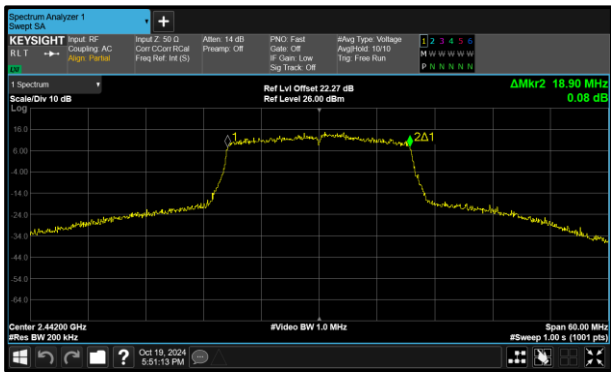


Figure 118 - 802.11ax HE20 SU Minimum 99%
OBW

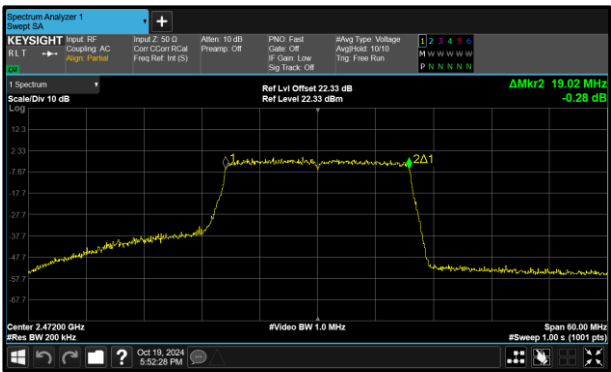


Figure 119 - 802.11ax HE20 SU Maximum 99%
OBW



MIMO CDD

Protocol	6 dB Bandwidth (MHz)	
	Minimum	Maximum
802.11n HT20	15.240	17.760
802.11ax HE20 SU	18.180	19.080

Table 15 - 6 dB Bandwidth Summary Results - MIMO CDD

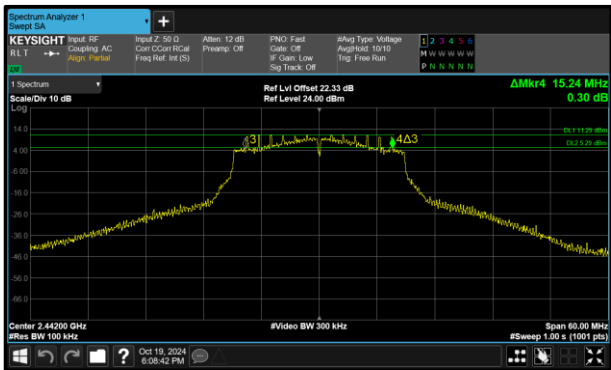


Figure 120 - 802.11n HT20 Minimum 6 dB EBW

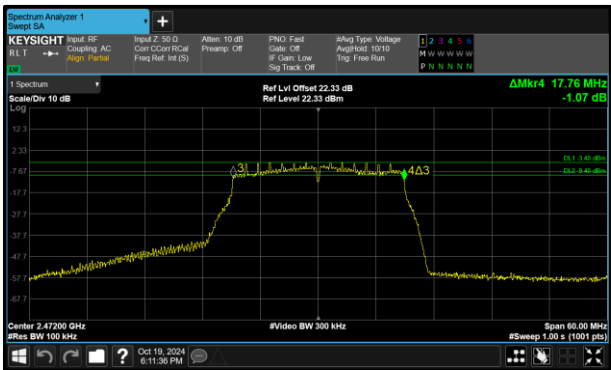


Figure 121 - 802.11n HT20 Maximum 6 dB EBW

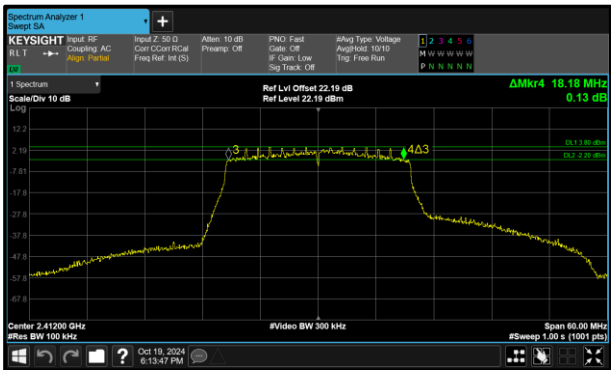


Figure 122 - 802.11ax HE20 SU Minimum 6 dB EBW



Figure 123 - 802.11ax HE20 SU Maximum 6 dB EBW



Protocol	99% Bandwidth (MHz)	
	Minimum	Maximum
802.11n HT20	17.580	17.760
802.11ax HE20 SU	18.900	19.020

Table 16 - 99% Bandwidth Summary Results - MIMO CDD

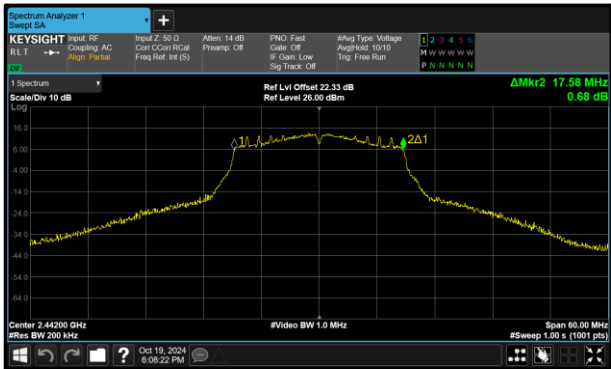


Figure 124 - 802.11n HT20 Minimum 99% OBW

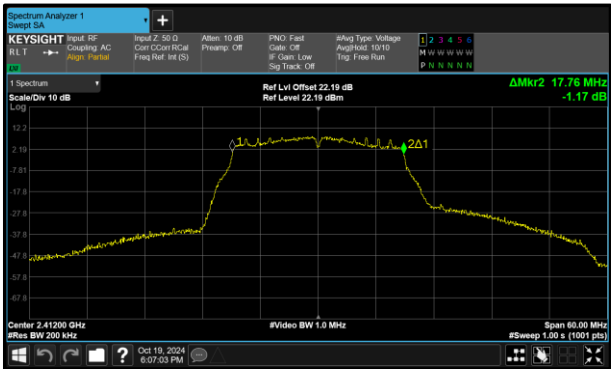


Figure 125 - 802.11n HT20 Maximum 99% OBW

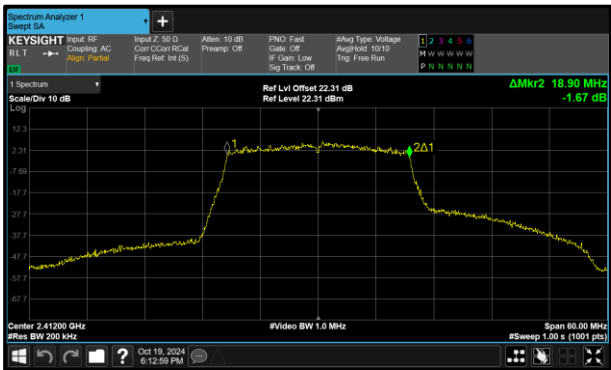


Figure 126 - 802.11ax HE20 SU Minimum 99% OBW

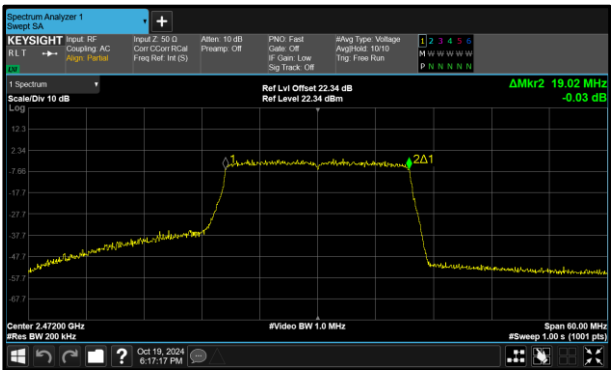


Figure 127 - 802.11ax HE20 SU Maximum 99% OBW



SISO

Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	15.247 (a)(2) RSS-247 5.2 a)	Test Method(s):	C63.10 6.9.3 C63.10 11.8.1
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11b	Duty Cycle (%):	-
Data Rate:	1 Mbps	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	-
Active Port(s):	B (Core 1)	Active Chain(s):	1

Test Frequency (MHz)	6 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
2412	-	8.640	-	-	≥500.0
2442	-	9.120	-	-	≥500.0
2467	-	9.120	-	-	≥500.0
2472	-	8.640	-	-	≥500.0

Table 17 - 6 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
2412	-	12.900	-	-	-
2442	-	12.960	-	-	-
2467	-	12.960	-	-	-
2472	-	12.960	-	-	-

Table 18 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	15.247 (a)(2) RSS-247 5.2 a)	Test Method(s):	C63.10 6.9.3 C63.10 11.8.1
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11g	Duty Cycle (%):	-
Data Rate:	12 Mbps	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	-
Active Port(s):	B (Core 1)	Active Chain(s):	1

Test Frequency (MHz)	6 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
2412	-	15.480	-	-	≥500.0
2442	-	15.240	-	-	≥500.0
2472	-	16.140	-	-	≥500.0

Table 19 - 6 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
2412	-	16.620	-	-	-
2442	-	16.440	-	-	-
2472	-	16.500	-	-	-

Table 20 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	15.247 (a)(2) RSS-247 5.2 a)	Test Method(s):	C63.10 6.9.3 C63.10 11.8.1
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11n HT20	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	-
Active Port(s):	B (Core 1)	Active Chain(s):	1

Test Frequency (MHz)	6 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
2412	-	16.680	-	-	≥500.0
2442	-	15.240	-	-	≥500.0
2472	-	17.460	-	-	≥500.0

Table 21 - 6 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
2412	-	17.700	-	-	-
2442	-	17.580	-	-	-
2472	-	17.700	-	-	-

Table 22 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	15.247 (a)(2) RSS-247 5.2 a)	Test Method(s):	C63.10 6.9.3 C63.10 11.8.1
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE20 SU	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	-
Active Port(s):	B (Core 1)	Active Chain(s):	1

Test Frequency (MHz)	6 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
2412	-	18.840	-	-	≥500.0
2442	-	18.900	-	-	≥500.0
2472	-	19.080	-	-	≥500.0

Table 23 - 6 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
2412	-	18.960	-	-	-
2442	-	18.900	-	-	-
2472	-	19.020	-	-	-

Table 24 - 99% Bandwidth Results



MIMO CDD

Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	15.247 (a)(2) RSS-247 5.2 a)	Test Method(s):	C63.10 6.9.3 C63.10 11.8.1
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11n HT20	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2	DCCF (dB):	-
Antenna Configuration:	MIMO CDD	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain(s):	0+1

Test Frequency (MHz)	6 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
2412	16.020	16.440	-	-	≥500.0
2442	15.240	15.300	-	-	≥500.0
2472	17.400	17.760	-	-	≥500.0

Table 25 - 6 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
2412	17.700	17.760	-	-	-
2442	17.580	17.580	-	-	-
2472	17.700	17.760	-	-	-

Table 26 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	15.247 (a)(2) RSS-247 5.2 a)	Test Method(s):	C63.10 6.9.3 C63.10 11.8.1
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE20 SU	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	MIMO CDD	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain(s):	0+1

Test Frequency (MHz)	6 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
2412	18.840	18.180	-	-	≥500.0
2442	18.900	18.600	-	-	≥500.0
2472	19.080	19.080	-	-	≥500.0

Table 27 - 6 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
2412	18.900	18.960	-	-	-
2442	18.960	18.960	-	-	-
2472	19.020	19.020	-	-	-

Table 28 - 99% Bandwidth Results

FCC 47 CFR Part 15, Limit Clause 15.247(a)(2) and ISSED RSS-247, Clause 5.2(a)

The minimum 6 dB Bandwidth shall be at least 500 kHz.



2.2.7 Test Location and Test Equipment Used

This test was carried out in RF Laboratory 14.

Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Expiry Date
Hygrometer	Rotronic	I-1000	3068	12	07-Nov-2024
Digital Multimeter	Fluke	115	6145	12	06-Jun-2025
MXA Signal Analyser	Keysight Technologies	N9020B	6417	24	26-Feb-2025
Signal Conditioning Unit	TUV SUD	SPECTRUM_SCU001	6518	12	16-Feb-2025
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6529	12	16-Feb-2025
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6530	12	16-Feb-2025
AC Programmable Power Supply	iTech	IT7324	6662	-	O/P Mon

Table 29

O/P Mon - Output Monitored using calibrated equipment



2.3 Maximum Conducted Output Power

2.3.1 Specification Reference

FCC 47 CFR Part 15C, Clause 15.247 (b)
ISED RSS-247, Clause 5.4
ISED RSS-GEN, Clause 6.12

2.3.2 Equipment Under Test and Modification State

A3143, S/N: VCXLW6763J - Modification State 0

2.3.3 Date of Test

18-October-2024

2.3.4 Test Method

The test was performed in accordance with ANSI C63.10 clause 11.9.2.3.2 Method AVGPM-G.

MIMO output port summing was performed in accordance with KDB 662911 D01.

For the CDD results, the Directional Gain was calculated in accordance with clause F)2)f)(ii) using the calculations from F)2)f)(i) with worst-case individual gain and an array gain of zero.

2.3.5 Environmental Conditions

Ambient Temperature	21.5 °C
Relative Humidity	58.9 %



2.3.6 Test Results

2.4 GHz WLAN

SISO

Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	15.247 (b)(3) RSS-247 5.4 d)	Test Method(s):	C63.10 11.9.2.3.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11b	Duty Cycle (%):	99.4
Data Rate:	1 Mbps	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	1.55
Active Port(s):	B (Core 1)	Active Chain(s):	1

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	Σ		
2412	-	18.63	-	-	18.63	30.00	-11.37
2442	-	18.87	-	-	18.87	30.00	-11.13
2467	-	19.09	-	-	19.09	30.00	-10.91
2472	-	16.92	-	-	16.92	30.00	-13.08

Table 30 - FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	A	B	C	D	Σ					
2412	-	18.63	-	-	18.63	30.00	-11.37	20.18	36.00	-15.82
2442	-	18.87	-	-	18.87	30.00	-11.13	20.42	36.00	-15.58
2467	-	19.09	-	-	19.09	30.00	-10.91	20.64	36.00	-15.36
2472	-	16.92	-	-	16.92	30.00	-13.08	18.47	36.00	-17.53

Table 31 - ISSED Maximum Conducted (average) Output Power Results



Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	15.247 (b)(3) RSS-247 5.4 d)	Test Method(s):	C63.10 11.9.2.3.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11g	Duty Cycle (%):	97.6
Data Rate:	12 Mbps	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	1.55
Active Port(s):	B (Core 1)	Active Chain(s):	1

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	Σ		
2412	-	17.29	-	-	17.29	30.00	-12.71
2442	-	22.68	-	-	22.68	30.00	-7.32
2472	-	9.42	-	-	9.42	30.00	-20.58

Table 32 - FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	A	B	C	D	Σ					
2412	-	17.29	-	-	17.29	30.00	-12.71	18.84	36.00	-17.16
2442	-	22.68	-	-	22.68	30.00	-7.32	24.23	36.00	-11.77
2472	-	9.42	-	-	9.42	30.00	-20.58	10.97	36.00	-25.03

Table 33 - ISED Maximum Conducted (average) Output Power Results



Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	15.247 (b)(3) RSS-247 5.4 d)	Test Method(s):	C63.10 11.9.2.3.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11n HT20	Duty Cycle (%):	96.5
Modulation Coding Scheme:	MCS2	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	1.55
Active Port(s):	B (Core 1)	Active Chain(s):	1

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	Σ		
2412	-	16.43	-	-	16.43	30.00	-13.57
2442	-	22.70	-	-	22.70	30.00	-7.30
2472	-	9.17	-	-	9.17	30.00	-20.83

Table 34 - FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	A	B	C	D	Σ					
2412	-	16.43	-	-	16.43	30.00	-13.57	17.98	36.00	-18.02
2442	-	22.70	-	-	22.70	30.00	-7.30	24.25	36.00	-11.75
2472	-	9.17	-	-	9.17	30.00	-20.83	10.72	36.00	-25.28

Table 35 - ISED Maximum Conducted (average) Output Power Results



Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	15.247 (b)(3) RSS-247 5.4 d)	Test Method(s):	C63.10 11.9.2.3.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE20 SU	Duty Cycle (%):	95.8
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	1.55
Active Port(s):	B (Core 1)	Active Chain(s):	1

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	Σ		
2412	-	15.12	-	-	15.12	30.00	-14.88
2442	-	22.62	-	-	22.62	30.00	-7.38
2472	-	8.12	-	-	8.12	30.00	-21.88

Table 36 - FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	A	B	C	D	Σ					
2412	-	15.12	-	-	15.12	30.00	-14.88	16.67	36.00	-19.33
2442	-	22.62	-	-	22.62	30.00	-7.38	24.17	36.00	-11.83
2472	-	8.12	-	-	8.12	30.00	-21.88	9.67	36.00	-26.33

Table 37 - ISED Maximum Conducted (average) Output Power Results