

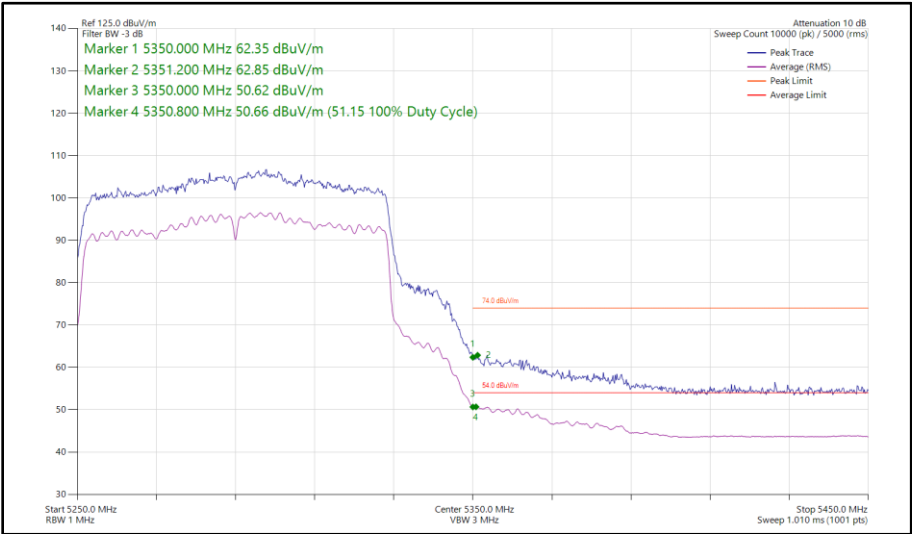


Figure 188 - 802.11ac VHT80, CDD, Core 0 - Core 1 - 5290 MHz
Band Edge Frequency 5350 MHz

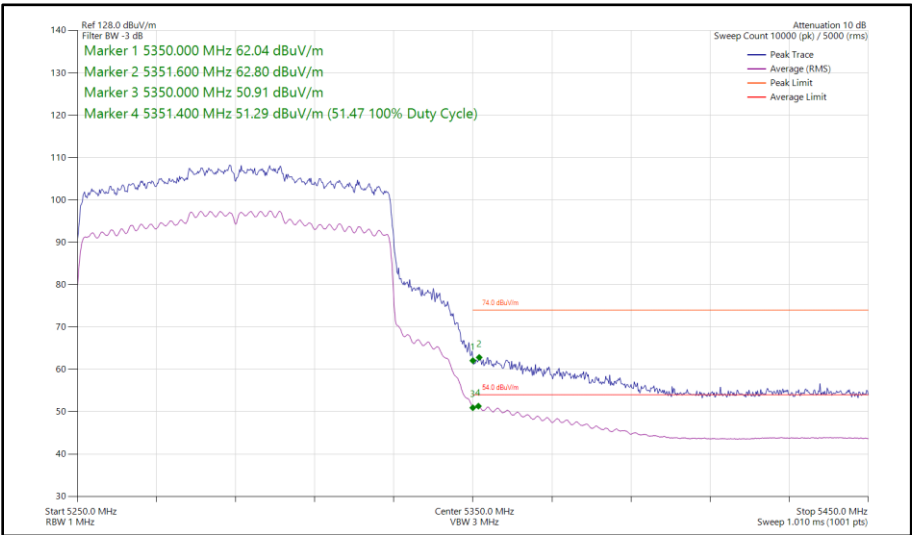
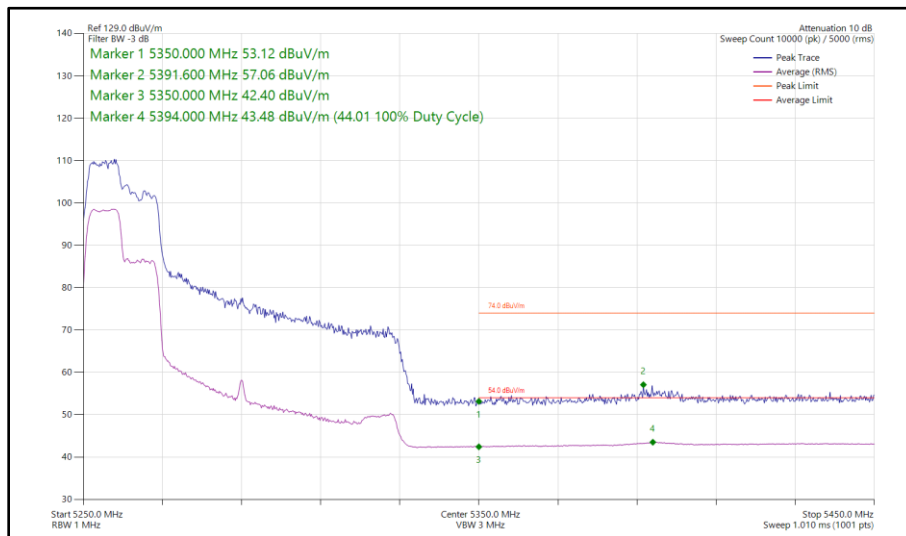
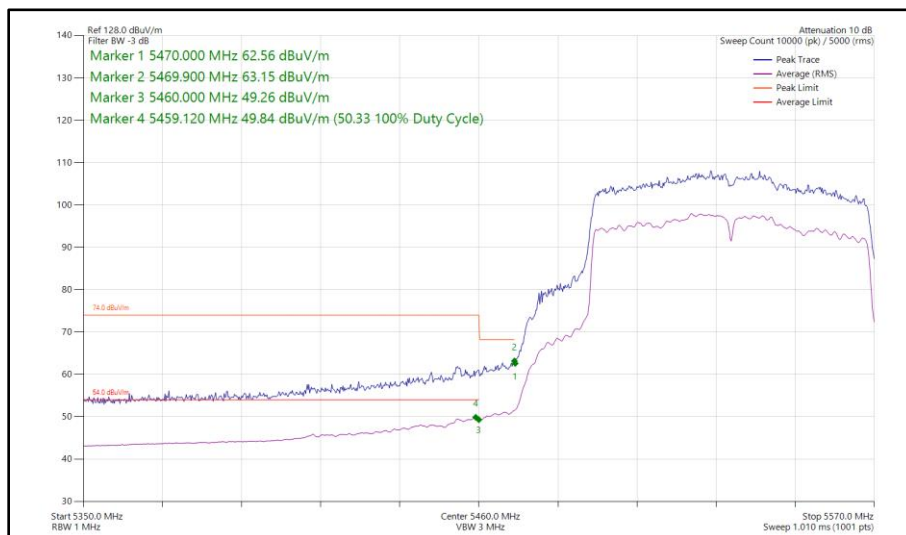


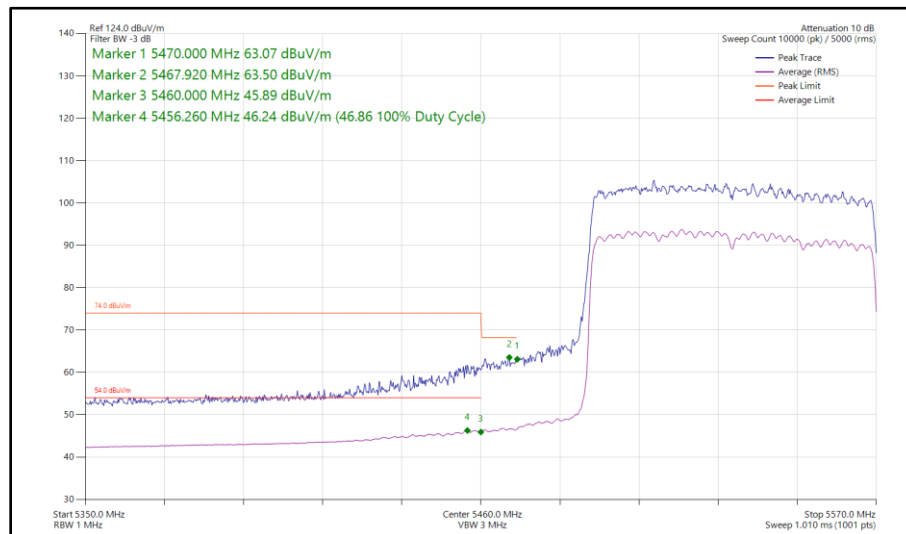
Figure 189 - 802.11ax HE80, SU, CDD, Core 0 - Core 1 - 5290 MHz
Band Edge Frequency 5350 MHz



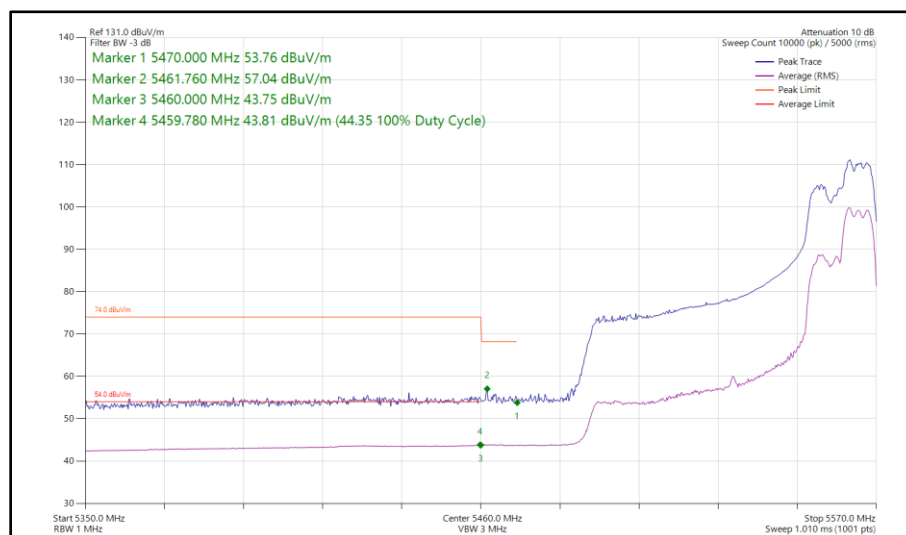
**Figure 190 - 802.11ax HE80, RU 106-53, CDD, Core 0 - Core 1 - 5290 MHz
Band Edge Frequency 5350 MHz**



**Figure 191 - 802.11ac VHT80, CDD, Core 0 - Core 1 - 5530 MHz
Band Edge Frequency 5460 MHz**



**Figure 192 - 802.11ax HE80, SU, CDD, Core 0 - Core 1 - 5530 MHz
Band Edge Frequency 5460 MHz**



**Figure 193 - 802.11ax HE80, RU 106-60, CDD, Core 0 - Core 1 - 5530 MHz
Band Edge Frequency 5460 MHz**

80 MHz Bandwidth - Core 0 - Core 1 (SDM)

Mode	Data Rate/ MCS	Resource Size	Resource Index	TX Frequency (MHz)	Band Edge Frequency (MHz)	Peak Level (dBμV/m)	Average Level (dBμV/m)
802.11ac VHT80	MCS 4x2	-	-	5210	5150	62.14	51.49
802.11ax HE80	MCS 11x2	SU	-	5210	5150	69.32	51.20
802.11ax HE80	MCS 11x2	106	53	5210	5150	55.84	44.68
802.11ac VHT80	MCS 8x2	-	-	5290	5350	66.66	51.12
802.11ax HE80	MCS 4x2	SU	-	5290	5350	63.52	51.25
802.11ax HE80	MCS 11x2	106	60	5290	5350	57.24	45.54
802.11ac VHT80	MCS 8x2	-	-	5530	5460	63.48	48.89
802.11ax HE80	MCS 11x2	SU	-	5530	5460	63.42	47.21
802.11ax HE80	MCS 11x2	106	53	5530	5460	58.07	46.19

Table 20 - SDM Restricted Band Edge Results

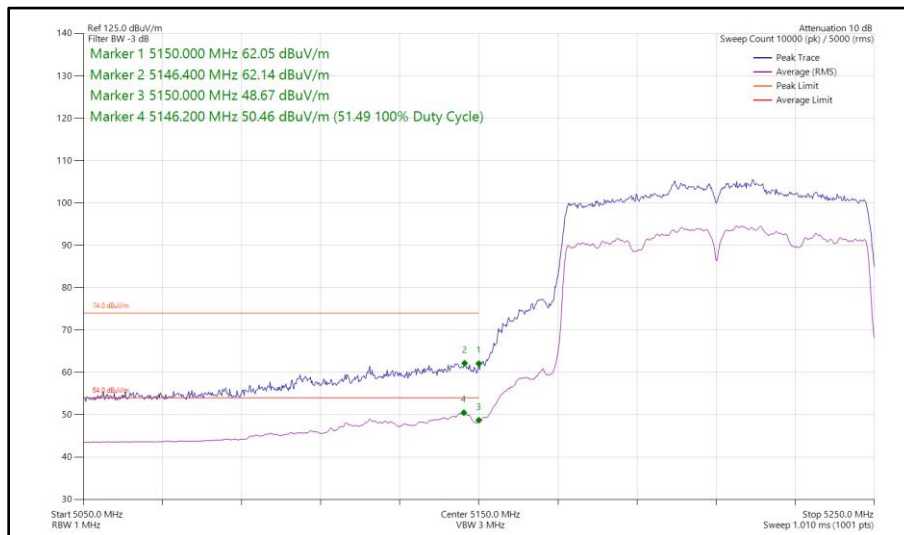
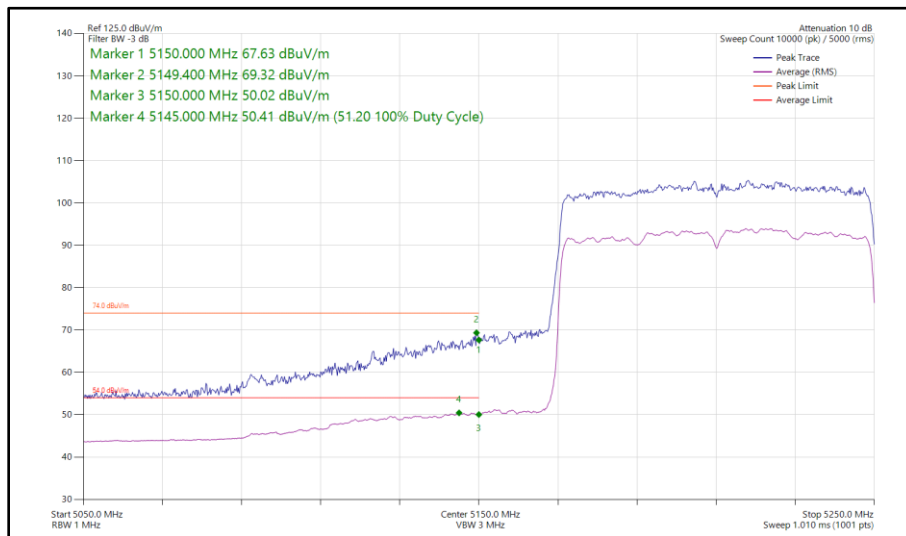
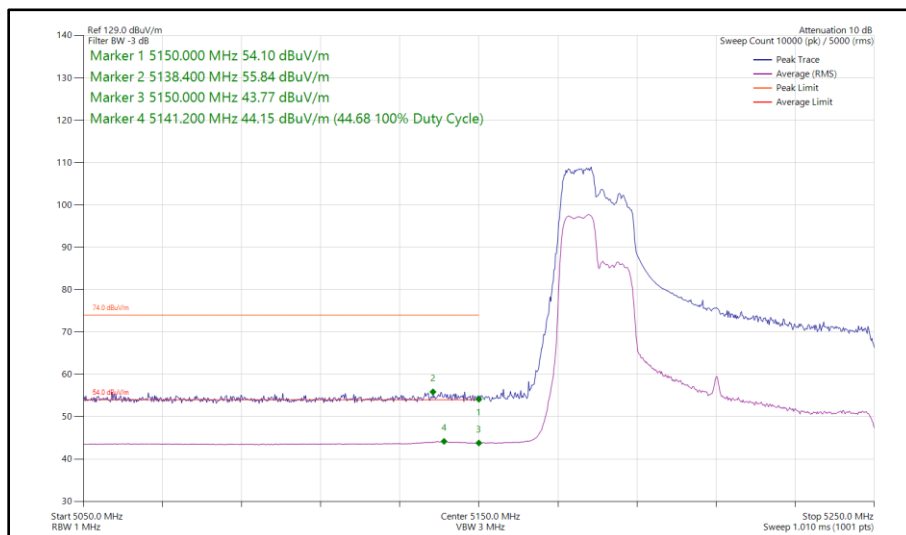


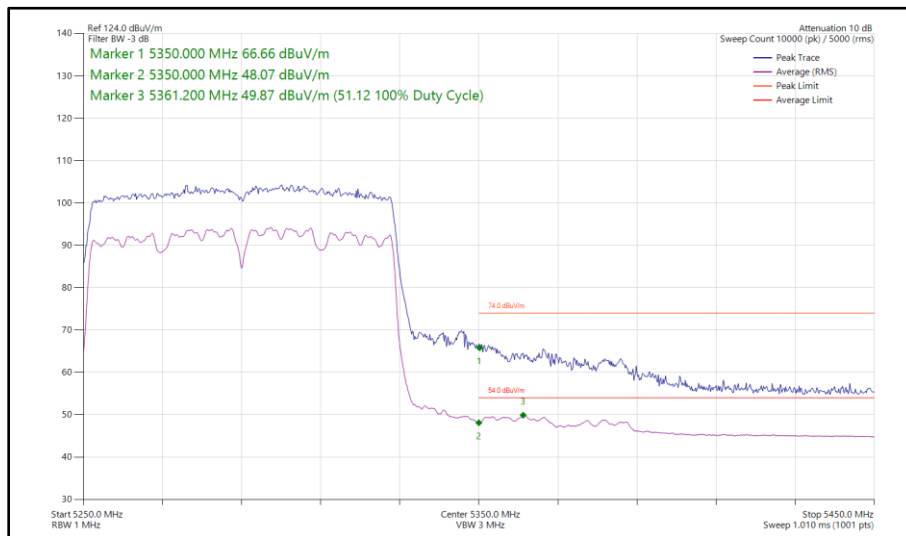
Figure 194 - 802.11ac VHT80, SDM, Core 0 - Core 1 - 5210 MHz
Band Edge Frequency 5150 MHz



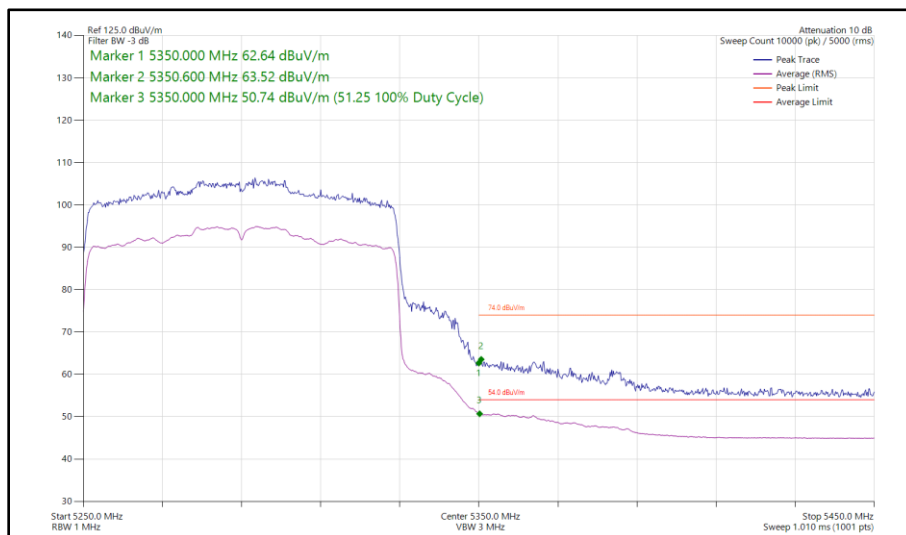
**Figure 195 - 802.11ax HE80, SU, SDM, Core 0 - Core 1 - 5210 MHz
Band Edge Frequency 5150 MHz**



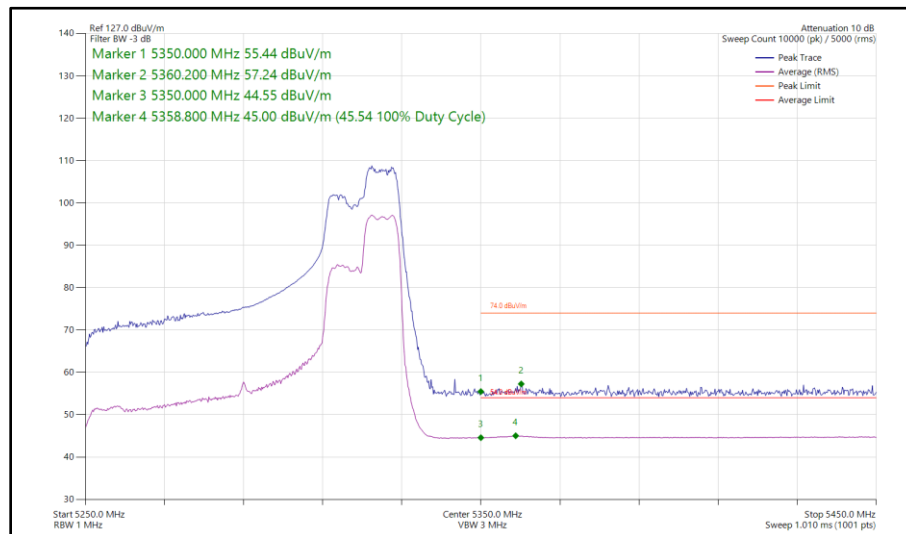
**Figure 196 - 802.11ax HE80, RU 106-53, SDM, Core 0 - Core 1 - 5210 MHz
Band Edge Frequency 5150 MHz**



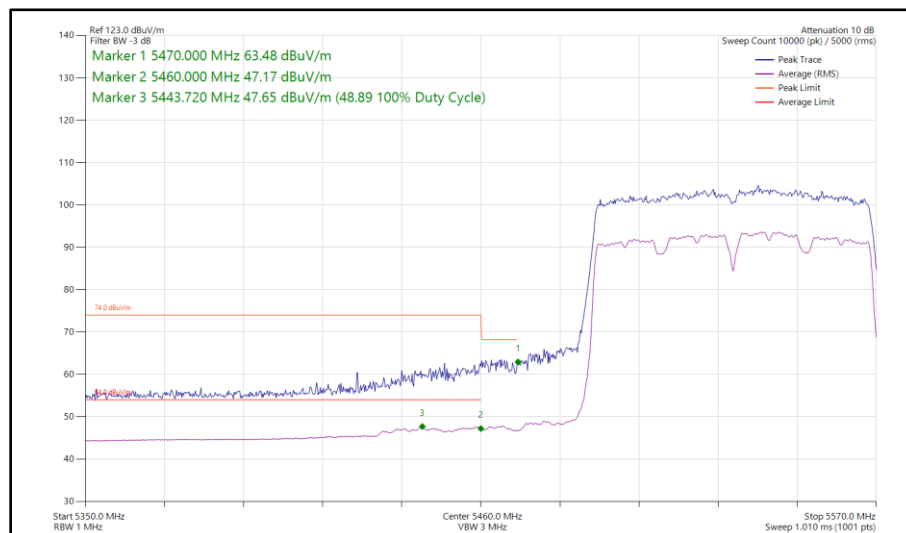
**Figure 197 - 802.11ac VHT80, SDM, Core 0 - Core 1 - 5290 MHz
Band Edge Frequency 5350 MHz**



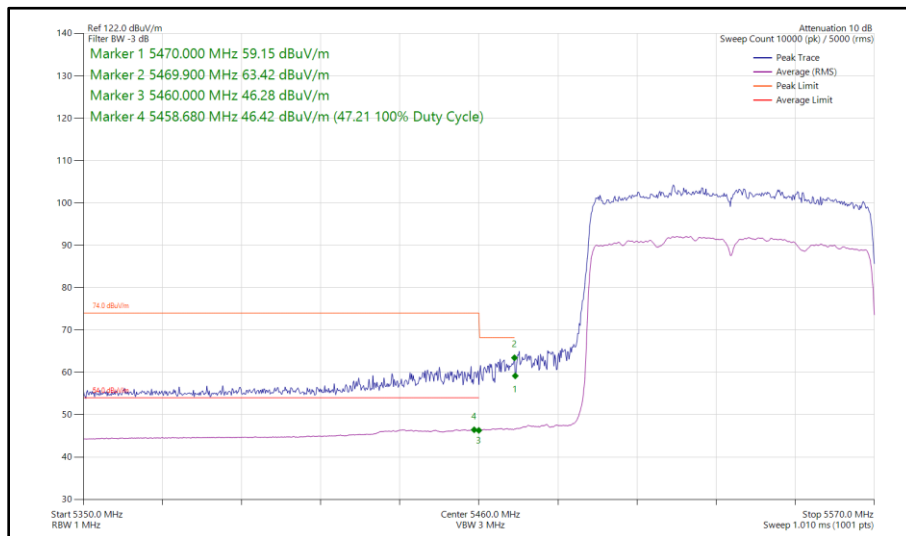
**Figure 198 - 802.11ax HE80, SU, SDM, Core 0 - Core 1 - 5290 MHz
Band Edge Frequency 5350 MHz**



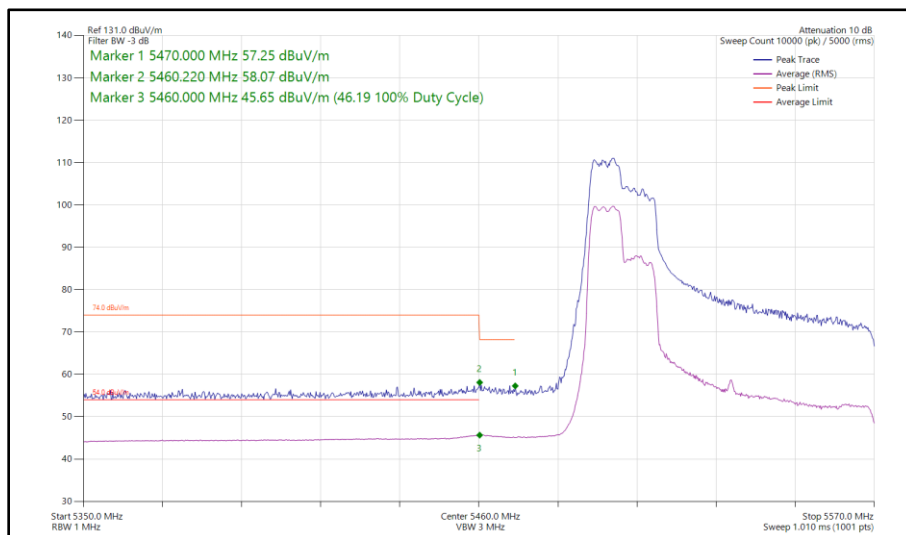
**Figure 199 - 802.11ax HE80, RU 106-60, SDM, Core 0 - Core 1 - 5290 MHz
Band Edge Frequency 5350 MHz**



**Figure 200 - 802.11ac VHT80, SDM, Core 0 - Core 1 - 5530 MHz
Band Edge Frequency 5460 MHz**



**Figure 201 - 802.11ax HE80, SU, SDM, Core 0 - Core 1 - 5530 MHz
Band Edge Frequency 5460 MHz**



**Figure 202 - 802.11ax HE80, RU 106-53, SDM, Core 0 - Core 1 - 5530 MHz
Band Edge Frequency 5460 MHz**

80 MHz Bandwidth - Core 0 - Core 1 (TxBF)

Mode	Data Rate/ MCS	Resource Size	Resource Index	TX Frequency (MHz)	Band Edge Frequency (MHz)	Peak Level (dBμV/m)	Average Level (dBμV/m)
802.11ac VHT80	MCS 8x1	-	-	5210	5150	69.19	46.96
802.11ac VHT80	MCS 8x1	-	-	5290	5350	66.78	51.18
802.11ac VHT80	MCS 4x1	-	-	5530	5460	63.19	46.02

Table 21 - TxBF Restricted Band Edge Results

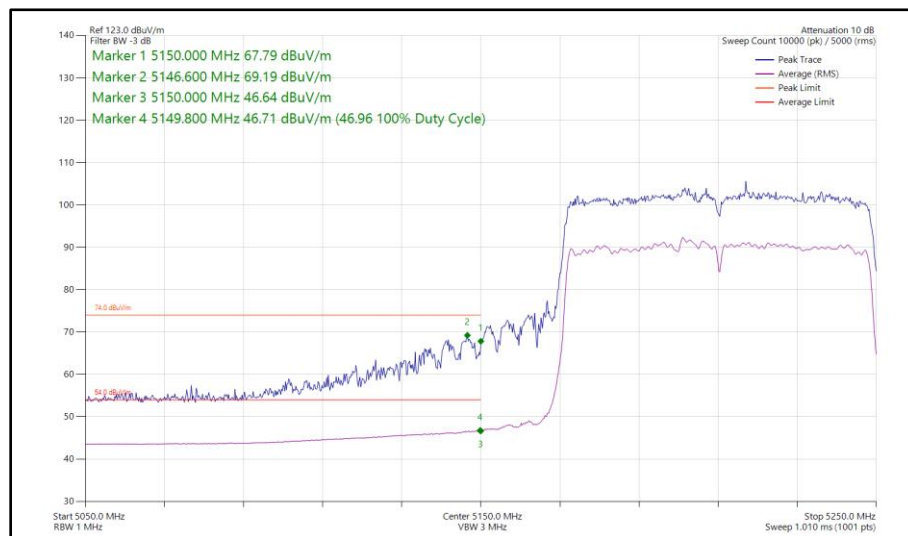


Figure 203 - 802.11ac VHT80, TxBF, Core 0 - Core 1 - 5210 MHz
Band Edge Frequency 5150 MHz

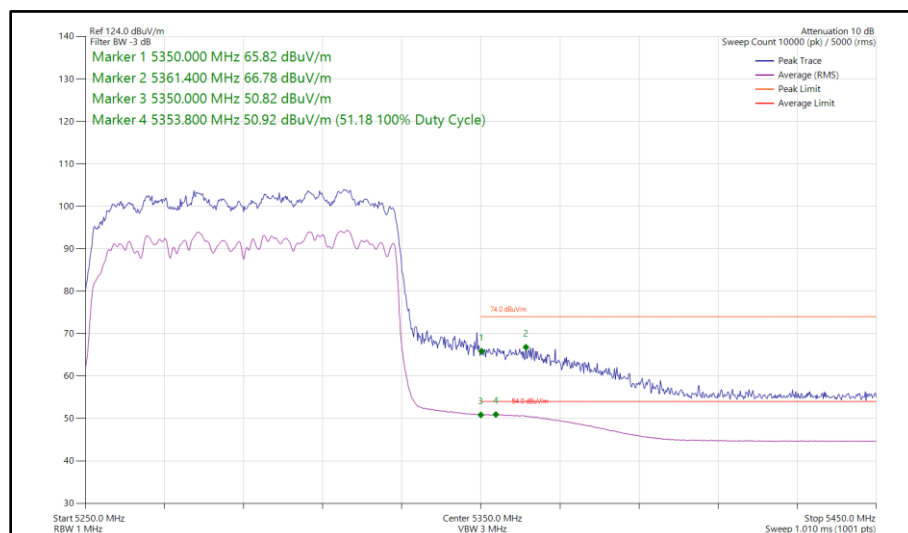


Figure 204 - 802.11ac VHT80, TxBF, Core 0 - Core 1 - 5290 MHz
Band Edge Frequency 5350 MHz

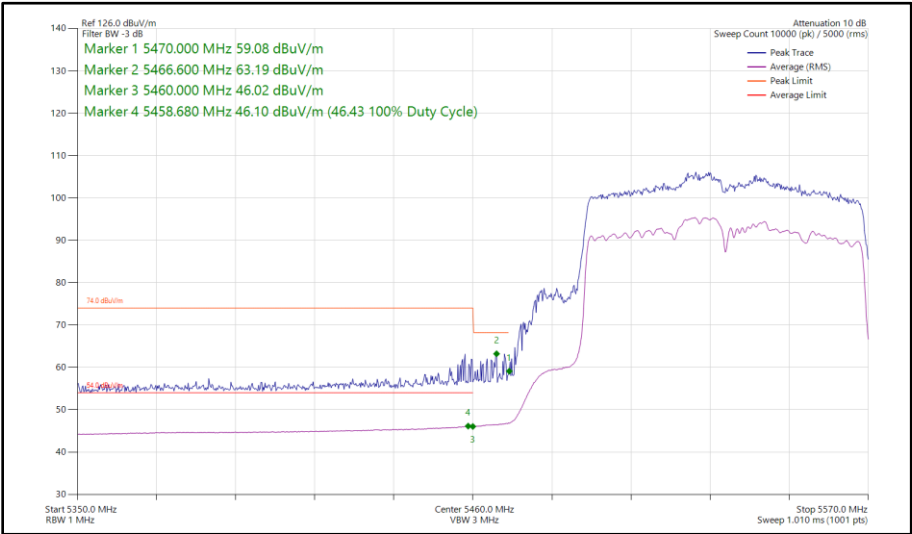
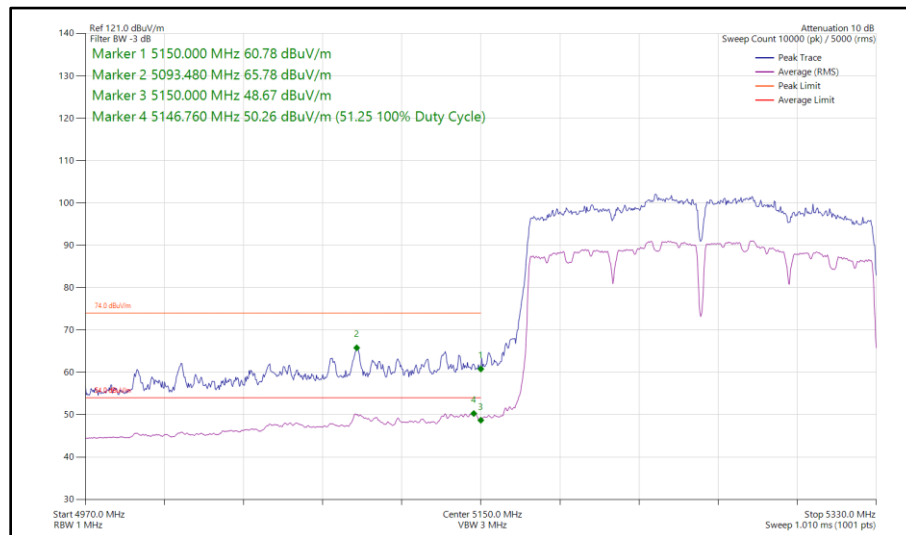


Figure 205 - 802.11ac VHT80, TxBF, Core 0 - Core 1 - 5530 MHz
Band Edge Frequency 5460 MHz

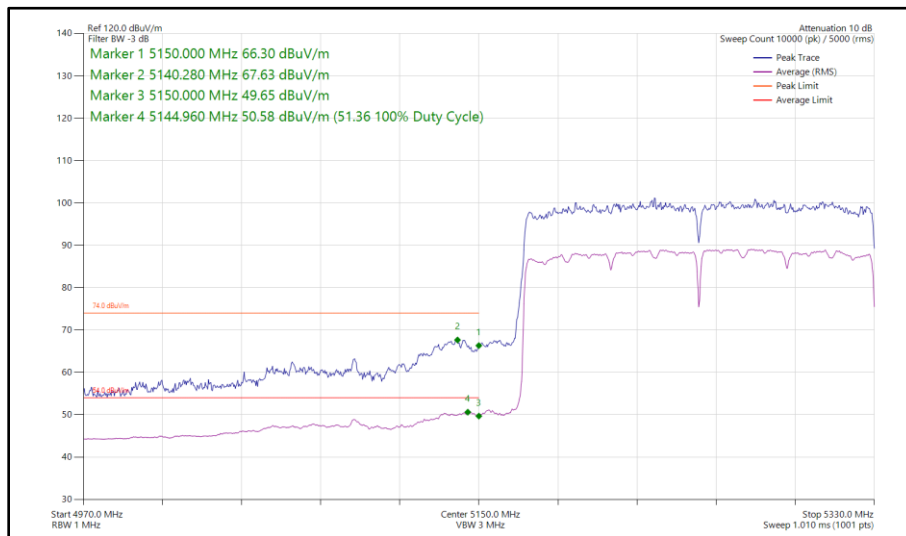
160 MHz Bandwidth - Core 0 (SISO)

Mode	Data Rate/ MCS	Resource Size	Resource Index	TX Frequency (MHz)	Band Edge Frequency (MHz)	Peak Level (dBμV/m)	Average Level (dBμV/m)
802.11ac VHT160	MCS 4x1	-	-	5250	5150	65.78	51.25
802.11ax HE160	MCS 11x1	SU	-	5250	5150	67.63	51.36
802.11ax HE160	MCS 11x1	106	53P	5250	5150	55.81	44.61
802.11ac VHT160	MCS 2x1	-	-	5250	5350	61.92	51.32
802.11ax HE160	MCS 11x1	SU	-	5250	5350	66.54	51.43
802.11ax HE160	MCS 11x1	106	53P	5250	5350	57.14	45.51
802.11ac VHT160	MCS 4x1	-	-	5570	5460	61.76	51.18
802.11ax HE160	MCS 4x1	SU	-	5570	5460	63.63	51.39
802.11ax HE160	MCS 11x1	106	53P	5570	5460	56.54	45.20

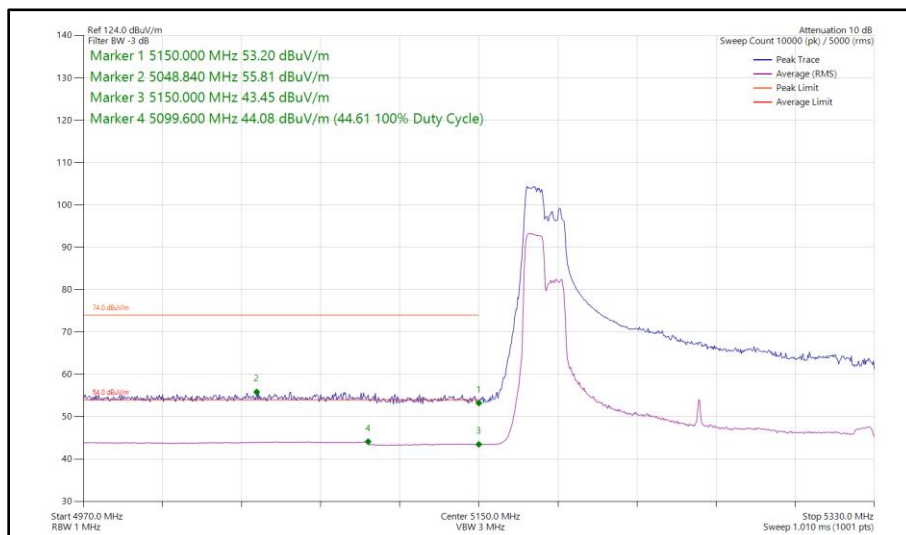
Table 22 - SISO Restricted Band Edge Results



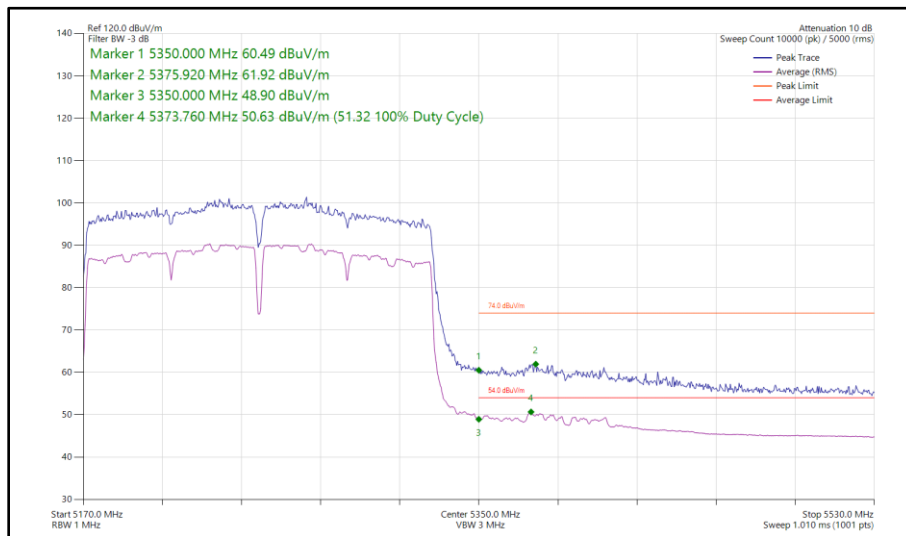
**Figure 206 - 802.11ac VHT160, SISO, Core 0 - 5250 MHz
Band Edge Frequency 5150 MHz**



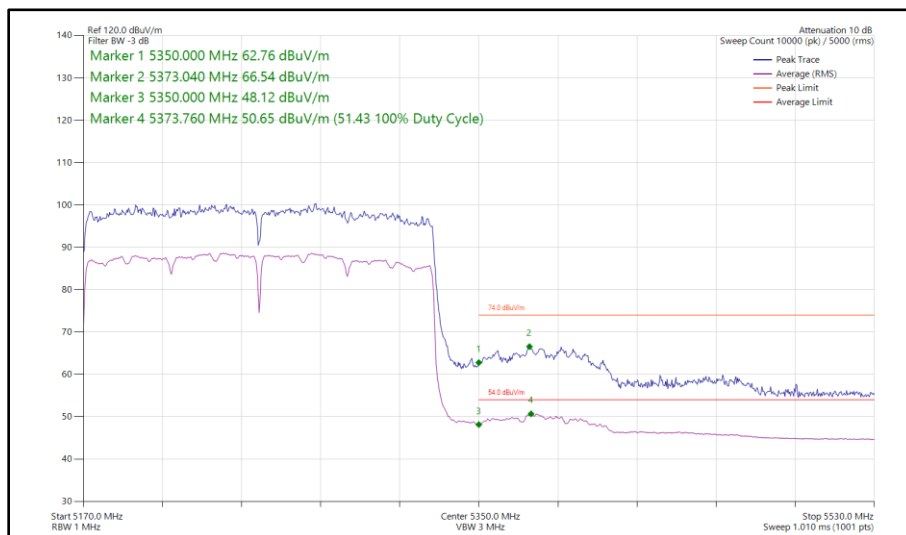
**Figure 207 - 802.11ax HE160, SU, SISO, Core 0 - 5250 MHz
Band Edge Frequency 5150 MHz**



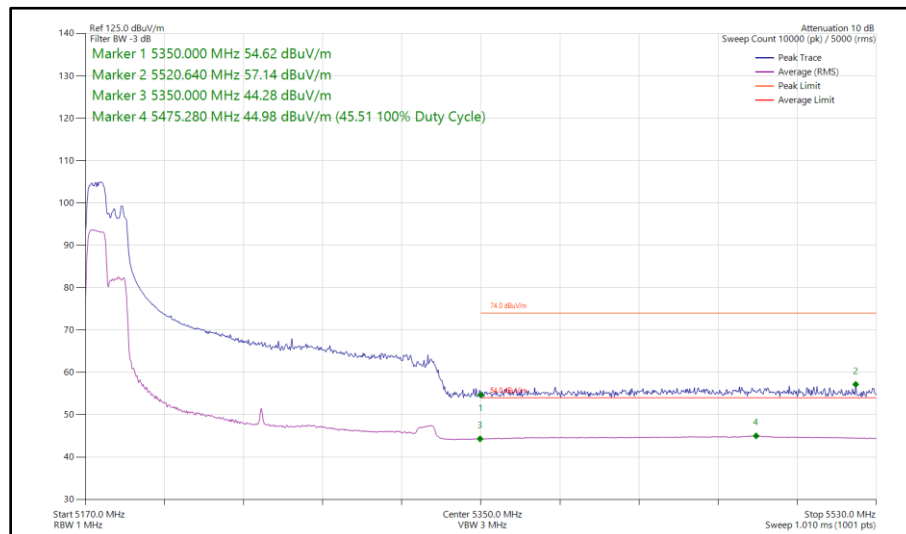
**Figure 208 - 802.11ax HE160, RU 106-53P, SISO, Core 0 - 5250 MHz
Band Edge Frequency 5150 MHz**



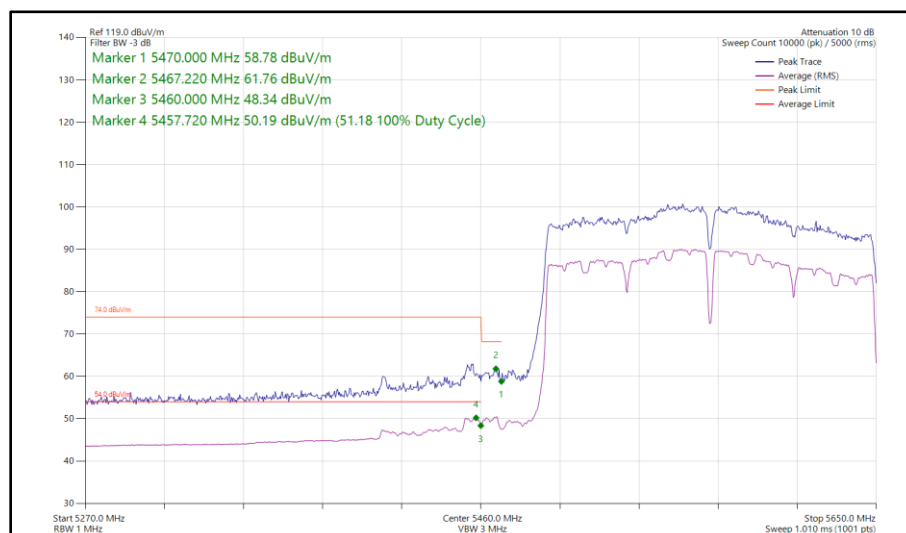
**Figure 209 - 802.11ac VHT160, SISO, Core 0 - 5250 MHz
Band Edge Frequency 5350 MHz**



**Figure 210 - 802.11ax HE160, SU, SISO, Core 0 - 5250 MHz
Band Edge Frequency 5350 MHz**



**Figure 211 - 802.11ax HE160, RU 106-53P, SISO, Core 0 - 5250 MHz
Band Edge Frequency 5350 MHz**



**Figure 212 - 802.11ac VHT160, SISO, Core 0 - 5570 MHz
Band Edge Frequency 5460 MHz**

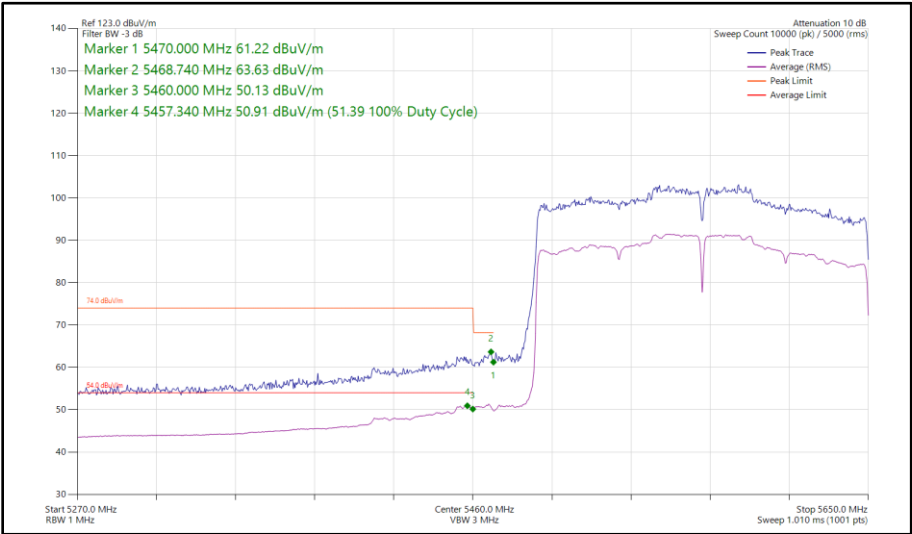


Figure 213 - 802.11ax HE160, SU, SISO, Core 0 - 5570 MHz
Band Edge Frequency 5460 MHz

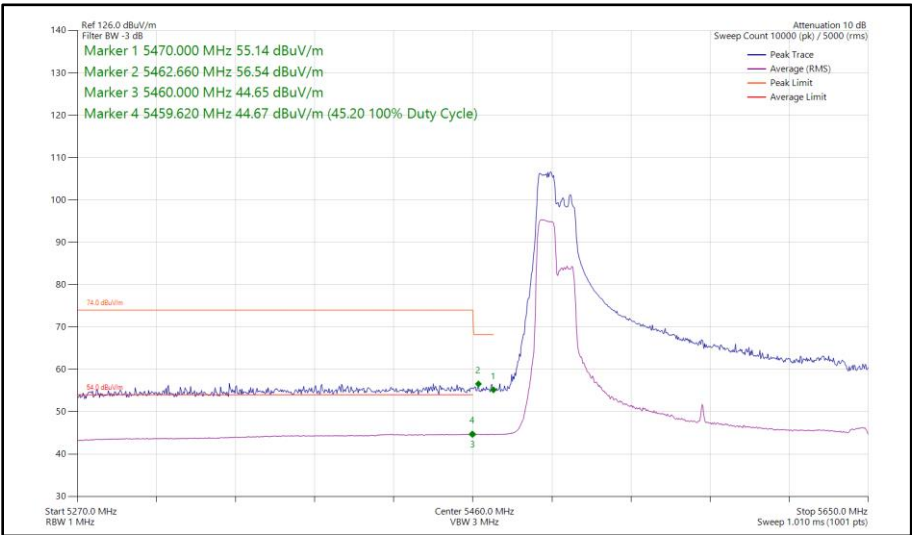
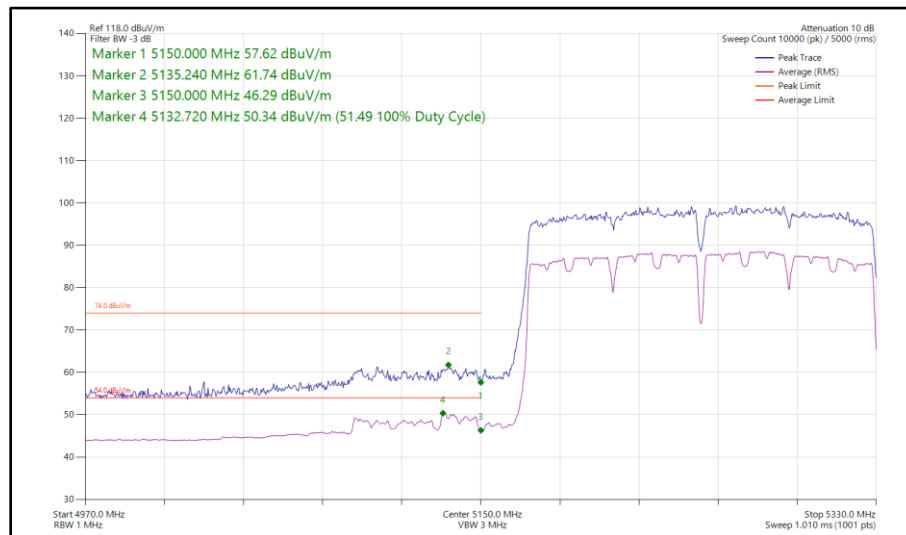


Figure 214 - 802.11ax HE160, RU 106-53P, SISO, Core 0 - 5570 MHz
Band Edge Frequency 5460 MHz

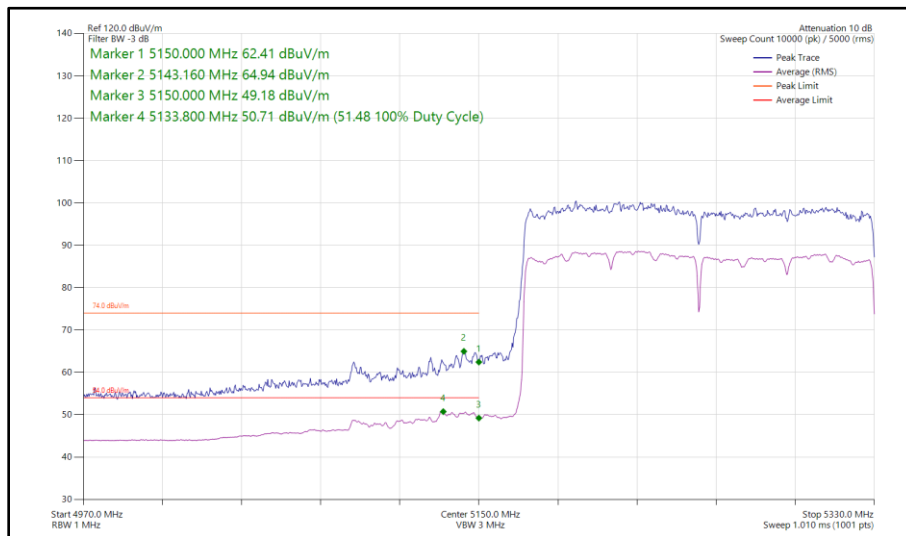
160 MHz Bandwidth - Core 1 (SISO)

Mode	Data Rate/ MCS	Resource Size	Resource Index	TX Frequency (MHz)	Band Edge Frequency (MHz)	Peak Level (dBμV/m)	Average Level (dBμV/m)
802.11ac VHT160	MCS 7x1	-	-	5250	5150	61.74	51.49
802.11ax HE160	MCS 11x1	SU	-	5250	5150	64.94	51.48
802.11ax HE160	MCS 11x1	106	53P	5250	5150	56.07	44.59
802.11ac VHT160	MCS 4x1	-	-	5250	5350	64.21	51.15
802.11ax HE160	MCS 4x1	SU	-	5250	5350	62.96	51.18
802.11ax HE160	MCS 11x1	106	53P	5250	5350	57.47	45.60
802.11ac VHT160	MCS 7x1	-	-	5570	5460	62.85	51.40
802.11ax HE160	MCS 4x1	SU	-	5570	5460	63.07	51.00
802.11ax HE160	MCS 11x1	106	60S	5570	5460	57.00	45.18

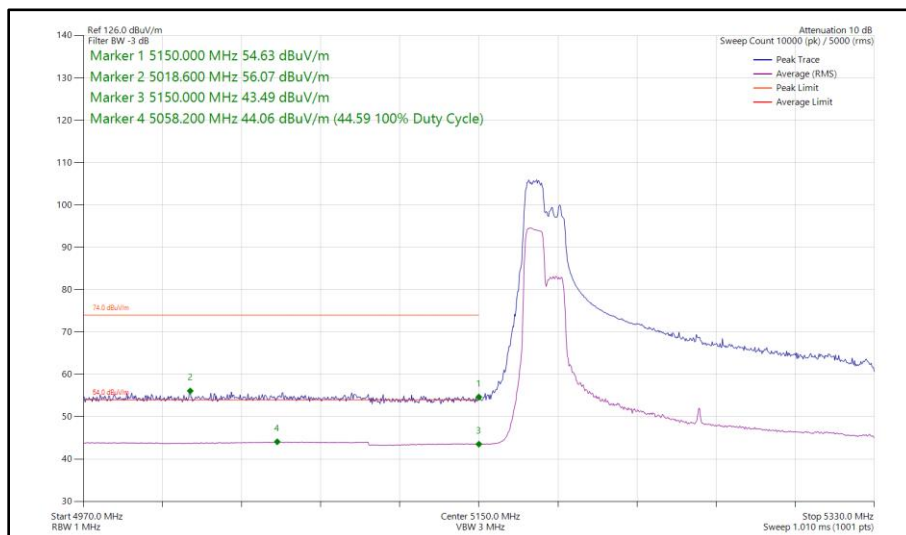
Table 23 - SISO Restricted Band Edge Results



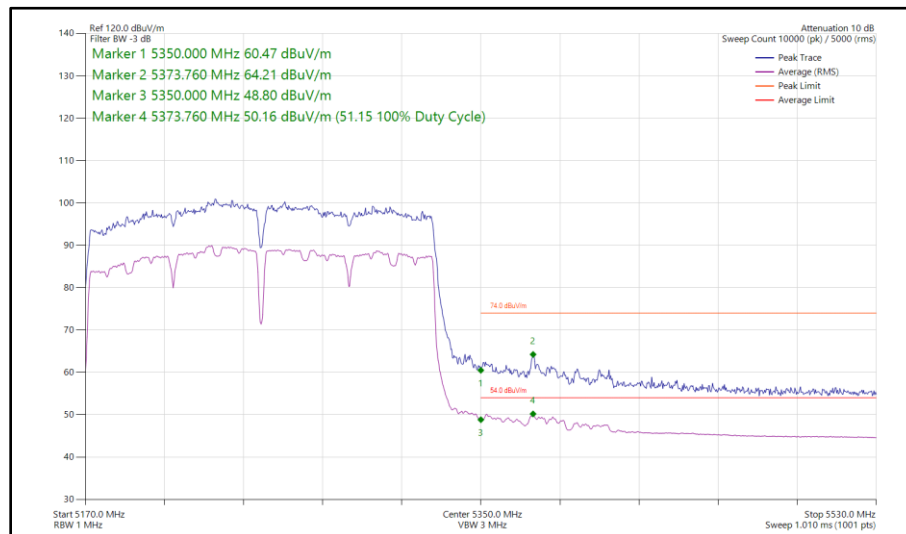
**Figure 215 - 802.11ac VHT160, SISO, Core 1 - 5250 MHz
Band Edge Frequency 5150 MHz**



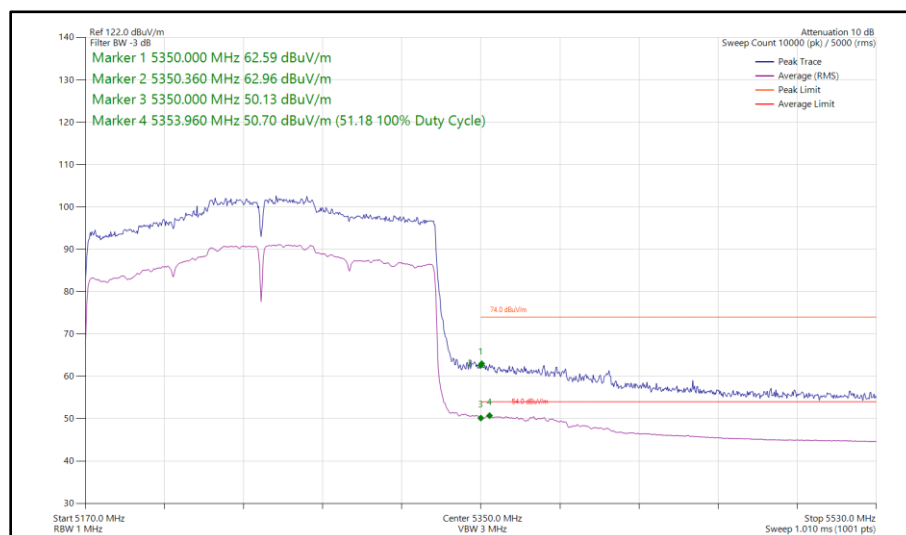
**Figure 216 - 802.11ax HE160, SU, SISO, Core 1 - 5250 MHz
Band Edge Frequency 5150 MHz**



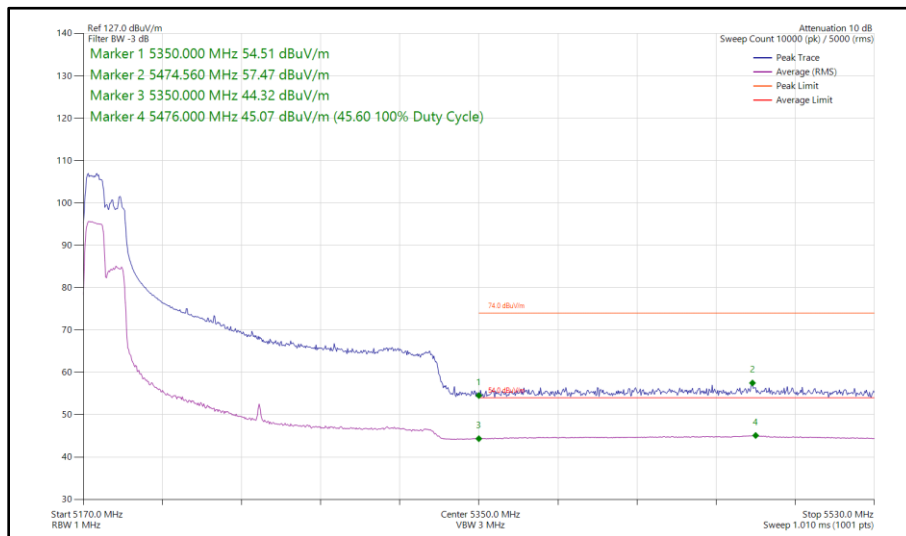
**Figure 217 - 802.11ax HE160, RU 106-53P, SISO, Core 1 - 5250 MHz
Band Edge Frequency 5150 MHz**



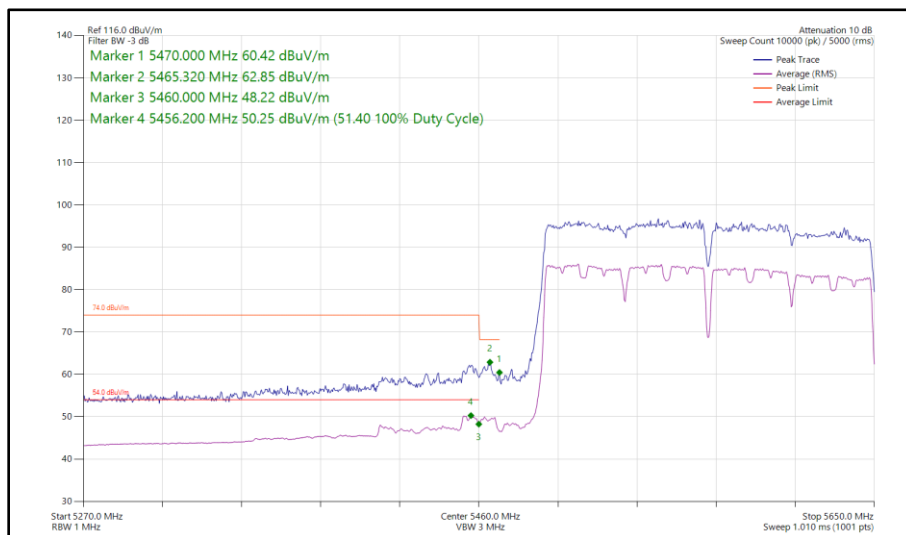
**Figure 218 - 802.11ac VHT160, SISO, Core 1 - 5250 MHz
Band Edge Frequency 5350 MHz**



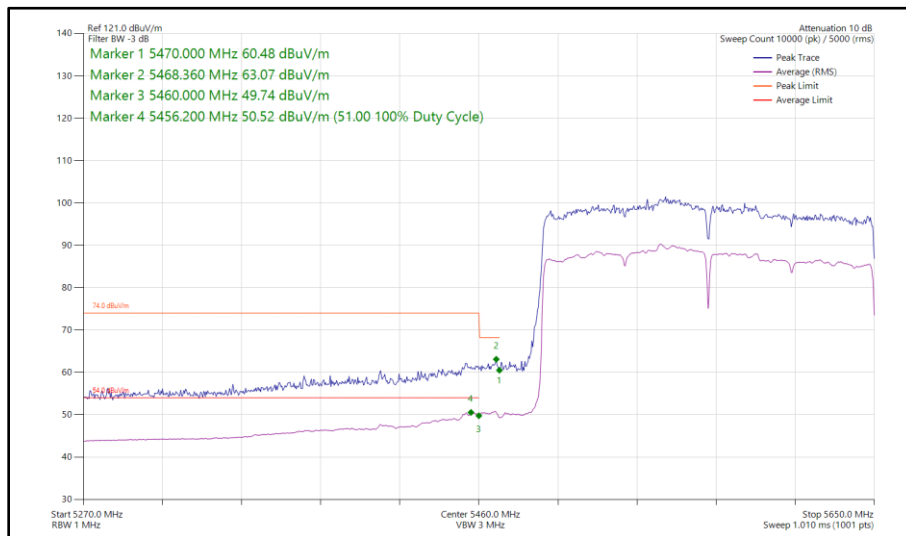
**Figure 219 - 802.11ax HE160, SU, SISO, Core 1 - 5250 MHz
Band Edge Frequency 5350 MHz**



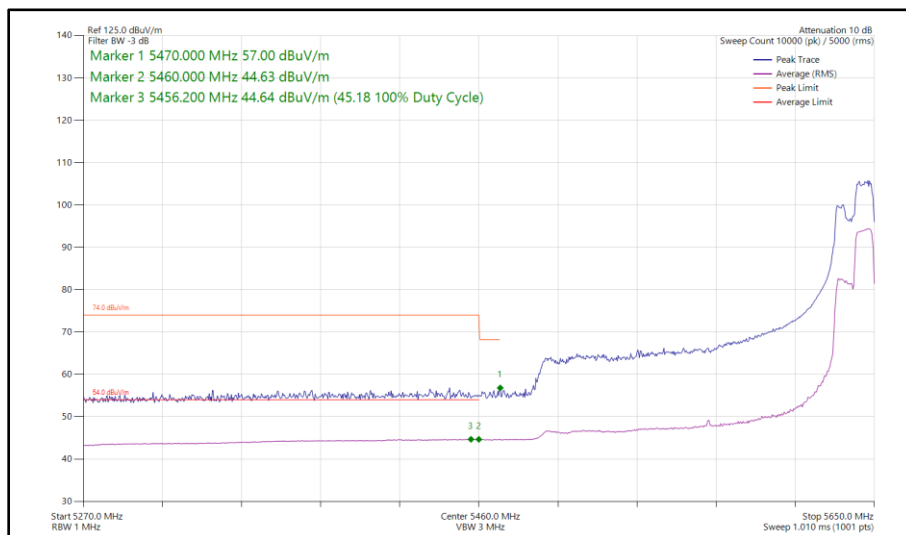
**Figure 220 - 802.11ax HE160, RU 106-53P, SISO, Core 1 - 5250 MHz
Band Edge Frequency 5350 MHz**



**Figure 221 - 802.11ac VHT160, SISO, Core 1 - 5570 MHz
Band Edge Frequency 5460 MHz**



**Figure 222 - 802.11ax HE160, SU, SISO, Core 1 - 5570 MHz
Band Edge Frequency 5460 MHz**

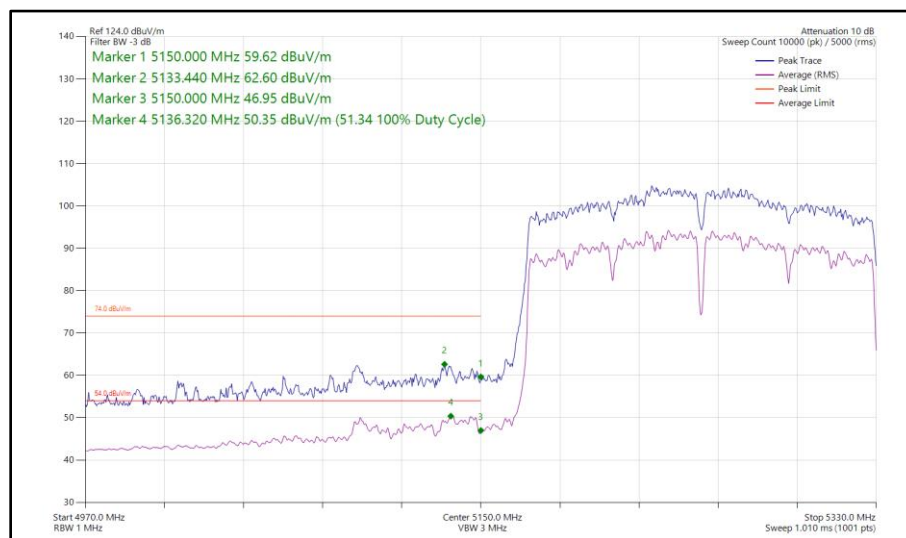


**Figure 223 - 802.11ax HE160, RU 106-60S, SISO, Core 1 - 5570 MHz
Band Edge Frequency 5460 MHz**

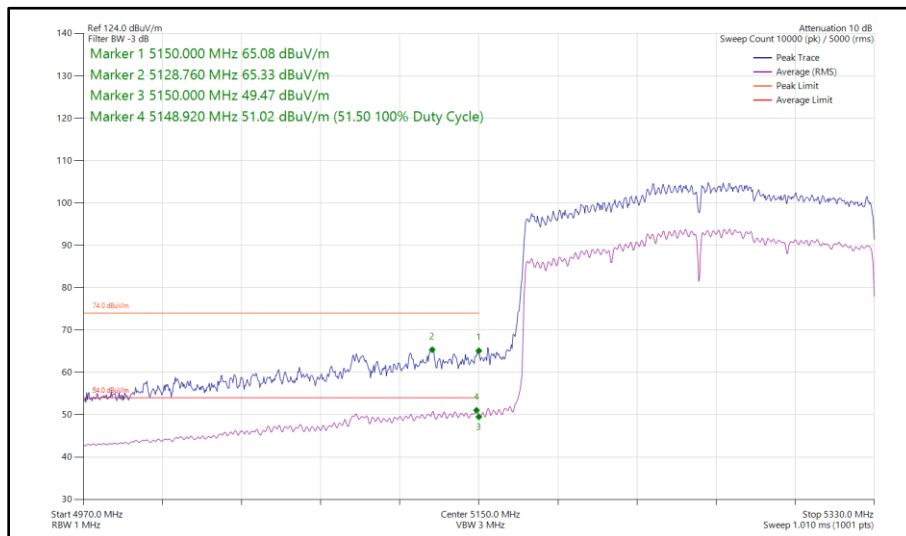
160 MHz Bandwidth - Core 0 - Core 1 (CDD)

Mode	Data Rate/ MCS	Resource Size	Resource Index	TX Frequency (MHz)	Band Edge Frequency (MHz)	Peak Level (dBμV/m)	Average Level (dBμV/m)
802.11ac VHT160	MCS 4x1	-	-	5250	5150	62.60	51.34
802.11ax HE160	MCS 4x1	SU	-	5250	5150	65.33	51.50
802.11ax HE160	MCS 11x1	52	37P	5250	5150	54.06	43.00
802.11ac VHT160	MCS 7x1	-	-	5250	5350	65.59	51.28
802.11ax HE160	MCS 4x1	SU	-	5250	5350	63.64	51.42
802.11ax HE160	MCS 11x1	52	37P	5250	5350	56.29	44.16
802.11ac VHT160	MCS 4x1	-	-	5570	5460	61.37	51.25
802.11ax HE160	MCS 2x1	SU	-	5570	5460	62.33	51.11
802.11ax HE160	MCS 11x1	106	60S	5570	5460	55.08	43.69

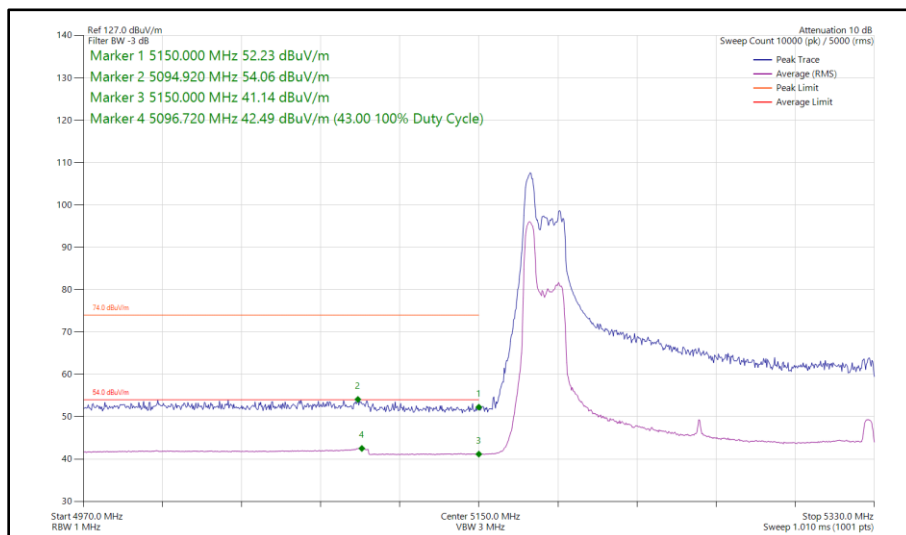
Table 24 - CDD Restricted Band Edge Results



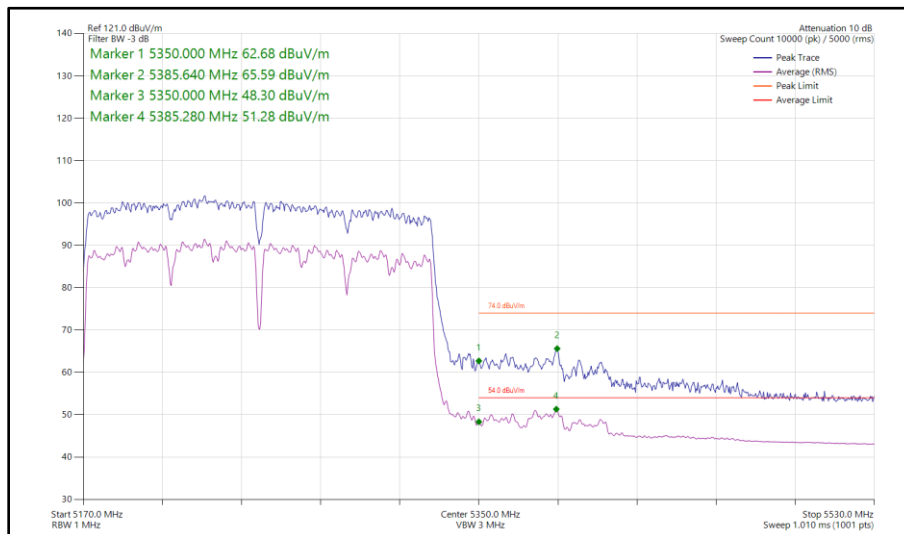
**Figure 224 - 802.11ac VHT160, CDD, Core 0 - Core 1 - 5250 MHz
Band Edge Frequency 5150 MHz**



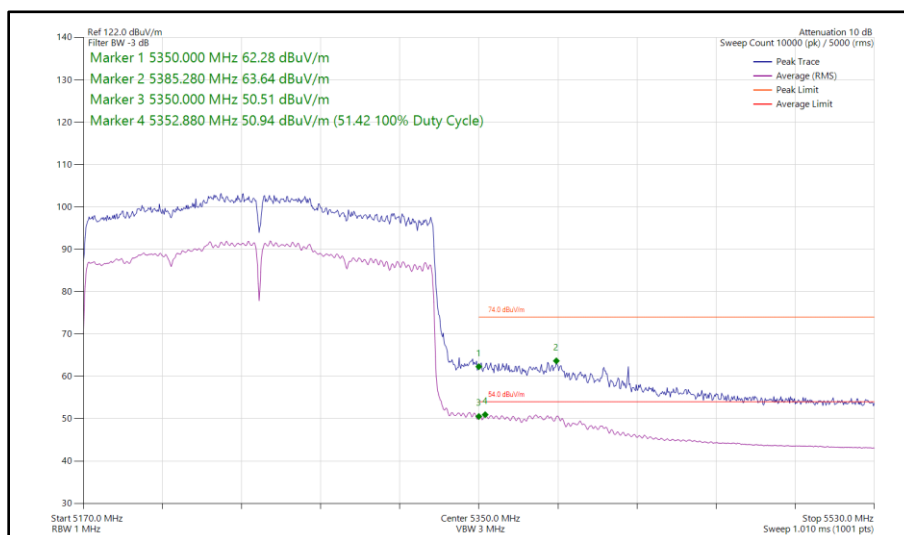
**Figure 225 - 802.11ax HE160, SU, CDD, Core 0 - Core 1 - 5250 MHz
Band Edge Frequency 5150 MHz**



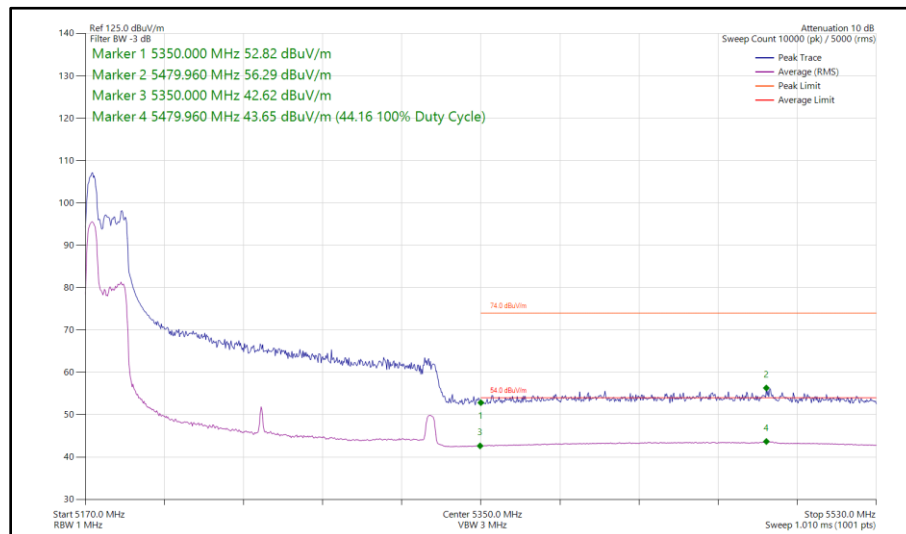
**Figure 226 - 802.11ax HE160, RU 52-37P, CDD, Core 0 - Core 1 - 5250 MHz
Band Edge Frequency 5150 MHz**



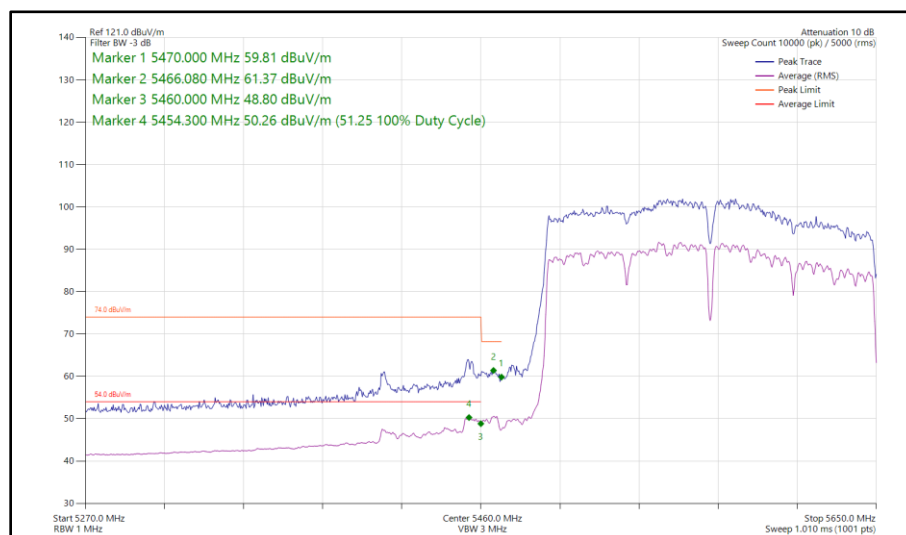
**Figure 227 - 802.11ac VHT160, CDD, Core 0 - Core 1 - 5250 MHz
Band Edge Frequency 5350 MHz**



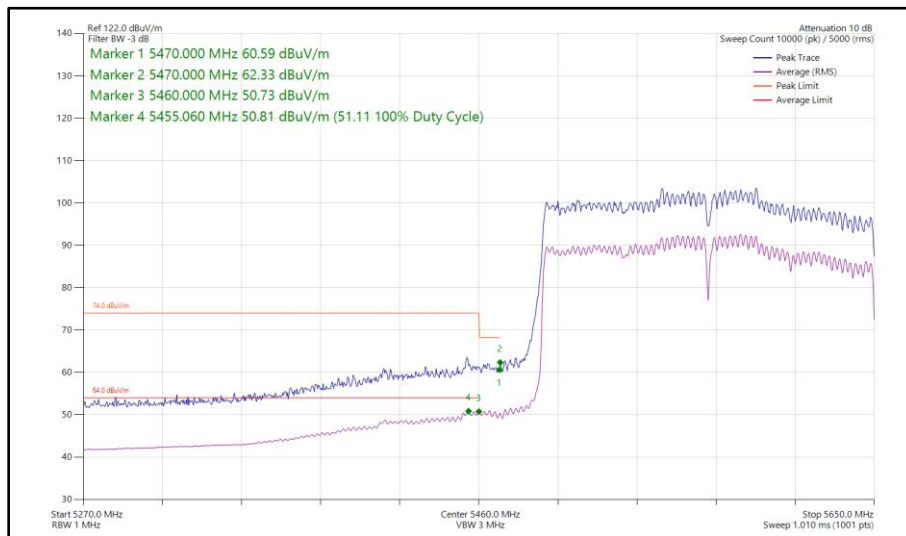
**Figure 228 - 802.11ax HE160, SU, CDD, Core 0 - Core 1 - 5250 MHz
Band Edge Frequency 5350 MHz**



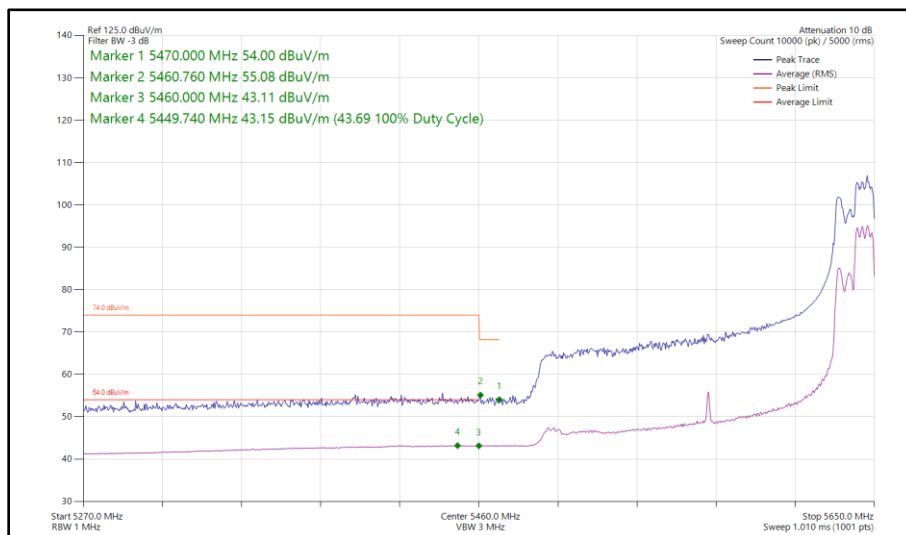
**Figure 229 - 802.11ax HE160, RU 52-37P, CDD, Core 0 - Core 1 - 5250 MHz
Band Edge Frequency 5350 MHz**



**Figure 230 - 802.11ac VHT160, CDD, Core 0 - Core 1 - 5570 MHz
Band Edge Frequency 5460 MHz**



**Figure 231 - 802.11ax HE160, SU, CDD, Core 0 - Core 1 - 5570 MHz
Band Edge Frequency 5460 MHz**

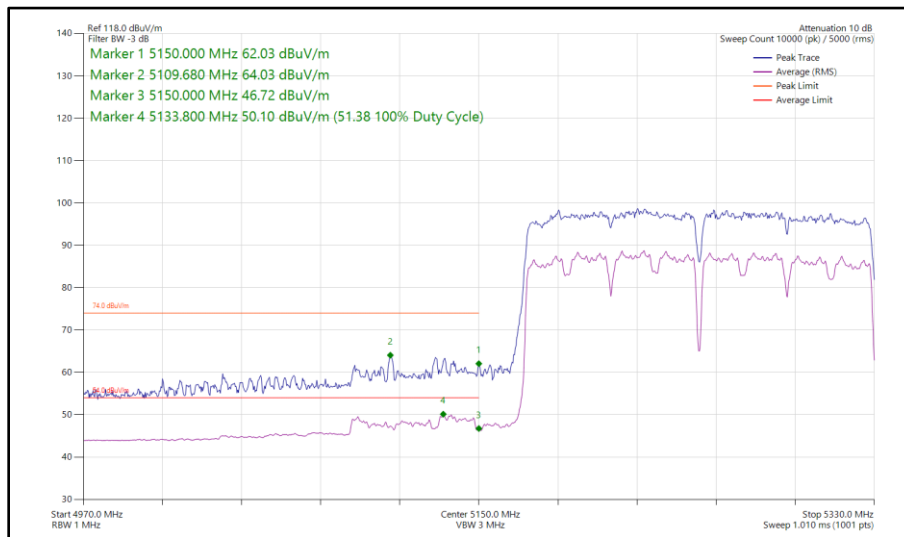


**Figure 232 - 802.11ax HE160, RU 106-60S, CDD, Core 0 - Core 1 - 5570 MHz
Band Edge Frequency 5460 MHz**

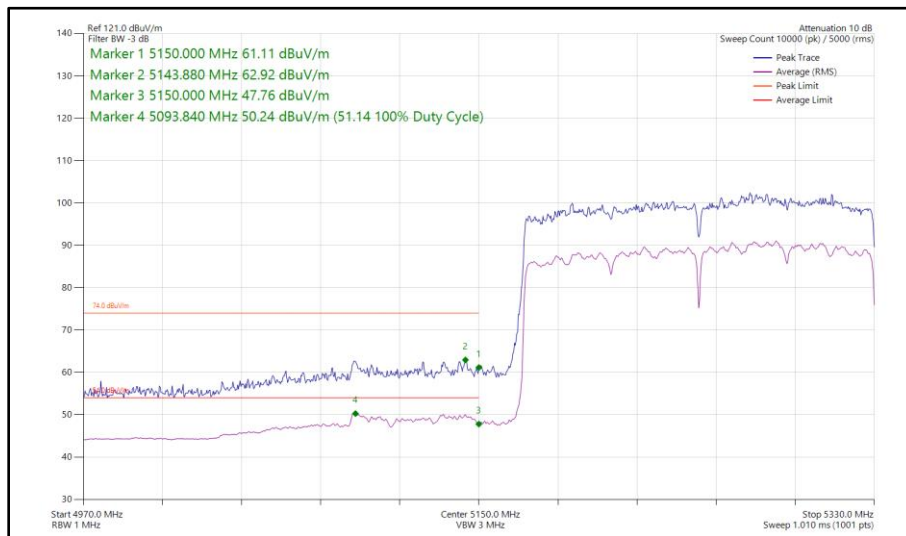
160 MHz Bandwidth - Core 0 - Core 1 (SDM)

Mode	Data Rate/ MCS	Resource Size	Resource Index	TX Frequency (MHz)	Band Edge Frequency (MHz)	Peak Level (dBμV/m)	Average Level (dBμV/m)
802.11ac VHT160	MCS 7x2	-	-	5250	5150	64.03	51.38
802.11ax HE160	MCS 11x2	SU	-	5250	5150	62.92	51.14
802.11ax HE160	MCS 11x2	106	53P	5250	5150	56.39	44.56
802.11ac VHT160	MCS 4x2	-	-	5250	5350	62.05	51.33
802.11ax HE160	MCS 11x2	SU	-	5250	5350	64.78	51.47
802.11ax HE160	MCS 11x2	106	53P	5250	5350	57.29	45.80
802.11ac VHT160	MCS 2x2	-	-	5570	5460	60.79	51.17
802.11ax HE160	MCS 2x2	SU	-	5570	5460	63.00	51.11
802.11ax HE160	MCS 11x2	106	53P	5570	5460	56.03	45.29

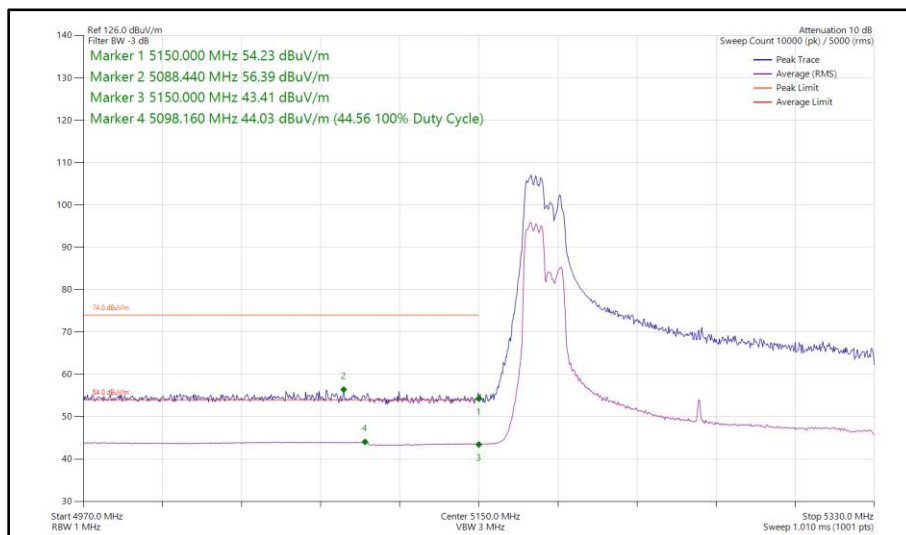
Table 25 - SDM Restricted Band Edge Results



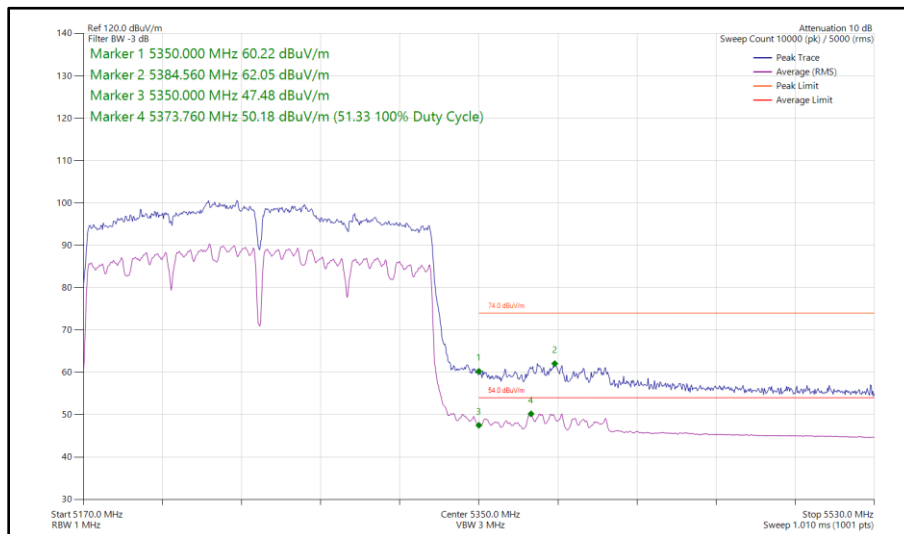
**Figure 233 - 802.11ac VHT160, SDM, Core 0 - Core 1 - 5250 MHz
Band Edge Frequency 5150 MHz**



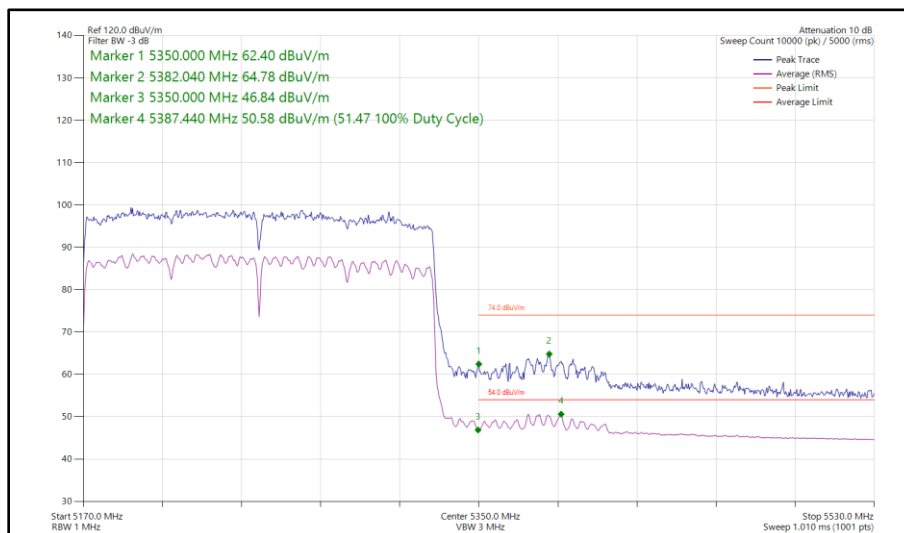
**Figure 234 - 802.11ax HE160, SU, SDM, Core 0 - Core 1 - 5250 MHz
Band Edge Frequency 5150 MHz**



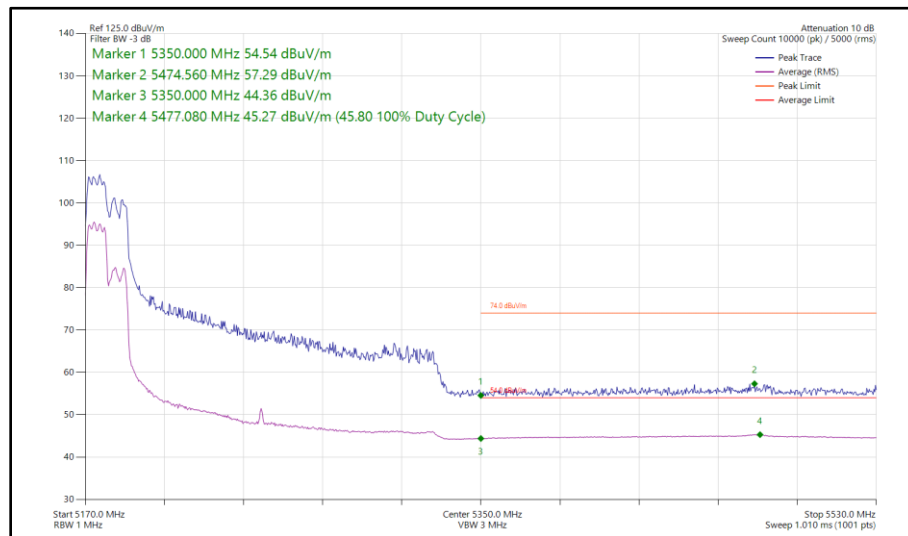
**Figure 235 - 802.11ax HE160, RU 106-53P, SDM, Core 0 - Core 1 - 5250 MHz
Band Edge Frequency 5150 MHz**



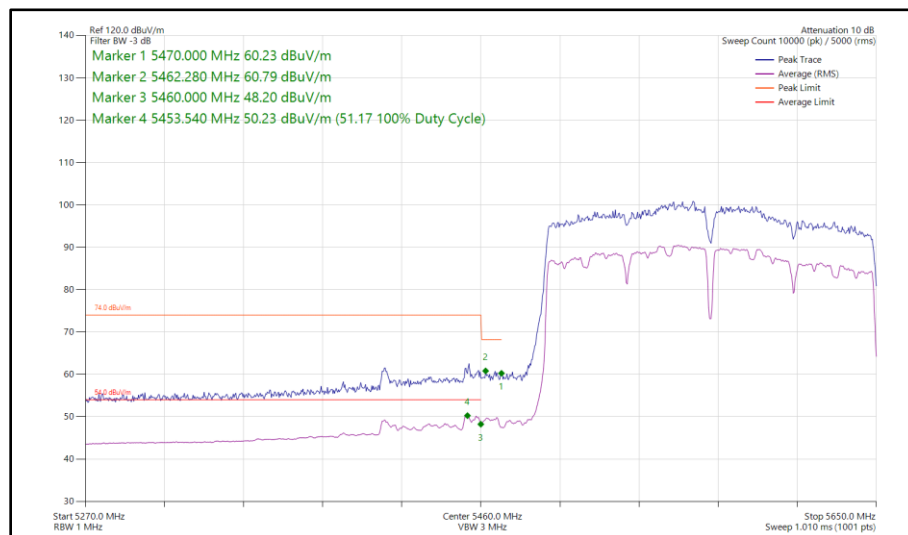
**Figure 236 - 802.11ac VHT160, SDM, Core 0 - Core 1 - 5250 MHz
Band Edge Frequency 5350 MHz**



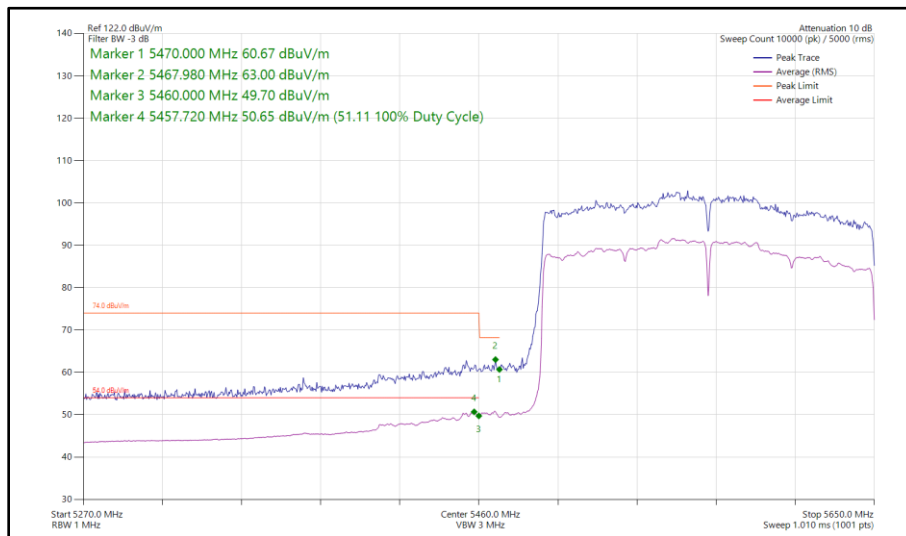
**Figure 237 - 802.11ax HE160, SU, SDM, Core 0 - Core 1 - 5250 MHz
Band Edge Frequency 5350 MHz**



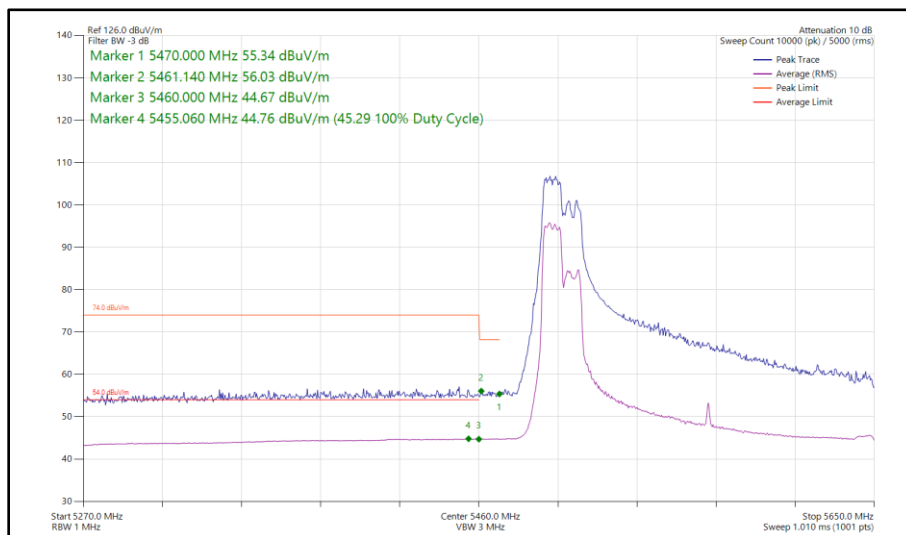
**Figure 238 - 802.11ax HE160, RU 106-53P, SDM, Core 0 - Core 1 - 5250 MHz
Band Edge Frequency 5350 MHz**



**Figure 239 - 802.11ac VHT160, SDM, Core 0 - Core 1 - 5570 MHz
Band Edge Frequency 5460 MHz**



**Figure 240 - 802.11ax HE160, SU, SDM, Core 0 - Core 1 - 5570 MHz
Band Edge Frequency 5460 MHz**



**Figure 241 - 802.11ax HE160, RU 106-53P, SDM, Core 0 - Core 1 - 5570 MHz
Band Edge Frequency 5460 MHz**

FCC 47 CFR Part 15, Limit Clause 15.205 and ISSED RSS-GEN Limit Clause 8.10

	Peak (dBμV/m)	Average (dBμV/m)
Restricted Bands of Operation	74	54

Table 26 - Restricted Band Edge Limit Table



2.1.7 Test Location and Test Equipment Used

This test was carried out in RF Chamber 14, RF Chamber 15, RF Chamber 16 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
1500W (300V 12A) AC Power Supply	iTech	IT7324	5957	-	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
3m Semi-Anechoic Chamber, Chamber16	Albatross Projects	RF Chamber 16	5972	36	24-May-2025
Mast & Turntable Controller	Maturo Gmbh	FCU3.0	5973	-	TU
Tilt Antenna Mast	Maturo Gmbh	BAM4.5-P	5974	-	TU
Turntable	Maturo Gmbh	TT1.5SI	5975	-	TU
Cable (SMA to SMA 1m)	Junkosha	MWX221-01000AMSAMS/A	5997	12	14-Sep-2024
Cable (SMA to SMA 1m)	Junkosha	MWX221-01000AMSAMS/A	6007	12	20-May-2025
Cable (SMA to SMA 6.5m)	Junkosha	MWX221-06500AMSAMS/B	6014	-	24-Aug-2024*
Horn Antenna (1-10.5 GHz)	Schwarzbeck	BBHA9120B	6140	12	05-May-2025
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



Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Expiry Date
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
EMI Test Receiver	Rohde & Schwarz	ESW44	6294	12	06-Jan-2025
Cable (SMA to SMA 1m)	Junkosha	MWX221-01000AMSAMS/A	6315	12	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
SAC Switch Unit	TUV SUD	TUV_SSU_004 PLC	6349	12	07-May-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 27

TU - Traceability Unscheduled

O/P Mon - Output Monitored using calibrated equipment

*NOTE: Only used within calibration period.



2.2 Emission Bandwidth

2.2.1 Specification Reference

FCC 47 CFR Part 15E, Clause 15.407 (a)
ISED RSS-247, Clause 6.2

2.2.2 Equipment Under Test and Modification State

A3143, S/N: VCXLW6763J - Modification State 0
A3143, S/N: VXR3QWTV2G - Modification State 0

2.2.3 Date of Test

18-October-2024 to 31-October-2024

2.2.4 Test Method

The test was performed in accordance with ANSI C63.10 2020, clause 12.5.2 for FCC measurements and clause 12.5.3 for ISED measurements.

For modes of operation using multiple cores, measurements were made on each core but only the worst-case results are reported. Worst case was considered as the narrowest results for 6 dB bandwidth and the widest result for 26 dB bandwidth and 99% occupied bandwidth.

2.2.5 Environmental Conditions

Ambient Temperature	21.5 - 22.1 °C
Relative Humidity	44.8 - 53.2 %

2.2.6 Test Results

5 GHz WLAN

SISO

Protocol	26 dB Bandwidth (MHz)	
	Minimum	Maximum
802.11a	20.700	21.180
802.11n HT20	20.820	22.560
802.11n HT40	41.640	43.320
802.11ac VHT80	83.600	93.060
802.11ac VHT160	165.480	165.480
802.11ax HE20 SU	20.940	22.200
802.11ax HE40 SU	41.520	44.040
802.11ax HE80 SU	82.720	89.980
802.11ax HE160 SU	165.480	165.480

Table 28 - 26 dB Bandwidth Summary Results - SISO

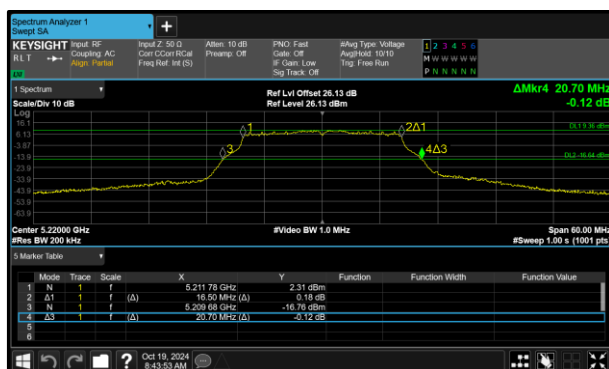


Figure 242 - 802.11a Minimum 26 dB EBW



Figure 243 - 802.11a Maximum 26 dB EBW

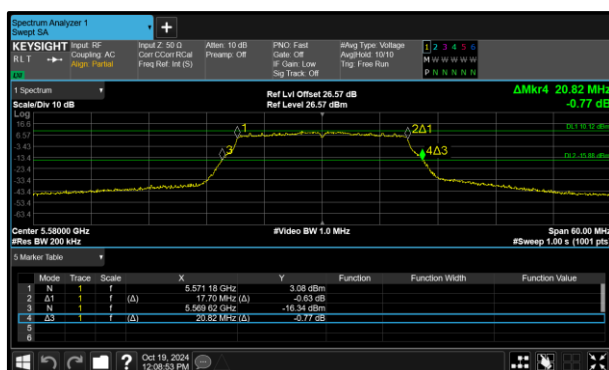


Figure 244 - 802.11n HT20 Minimum 26 dB EBW

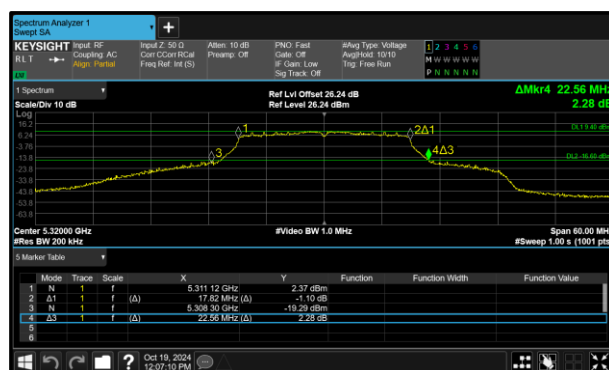


Figure 245 - 802.11n HT20 Maximum 26 dB EBW

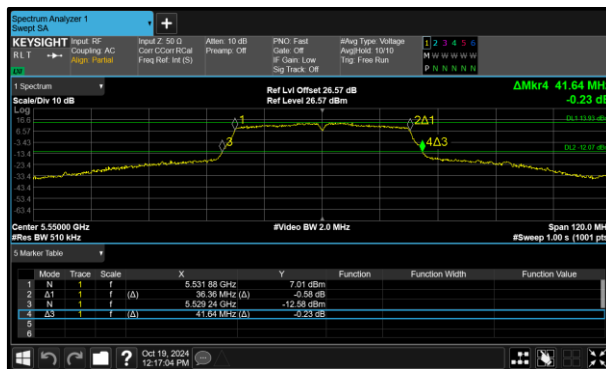


Figure 246 - 802.11n HT40 Minimum 26 dB EBW

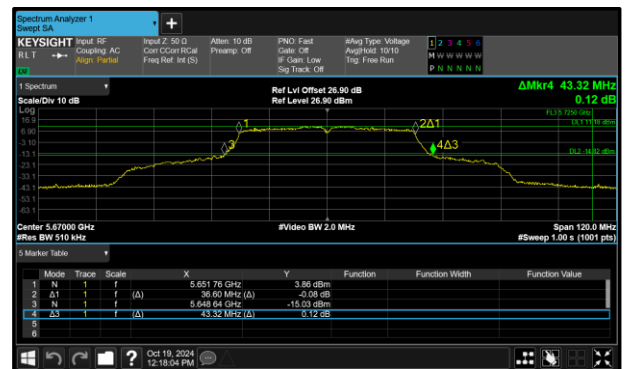


Figure 247 - 802.11n HT40 Maximum 26 dB EBW

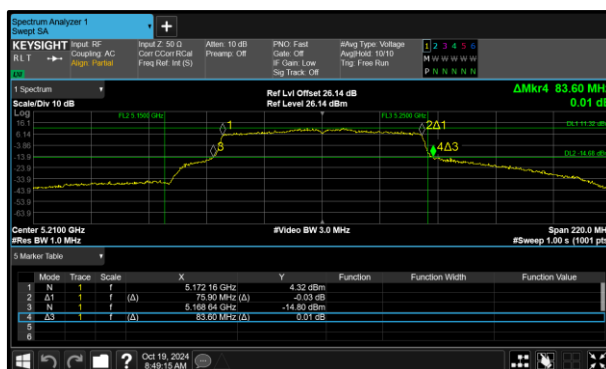


Figure 248 - 802.11ac VHT80 Minimum 26 dB EBW

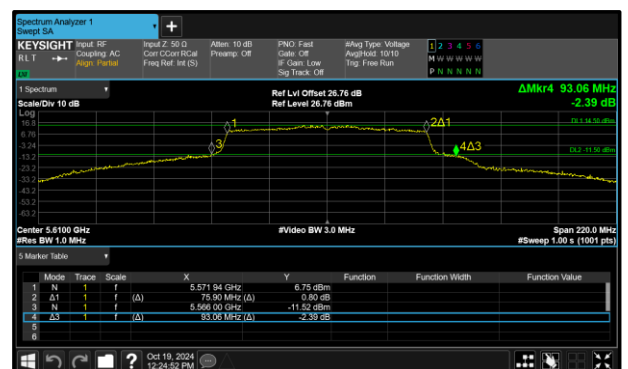


Figure 249 - 802.11ac VHT80 Maximum 26 dB EBW

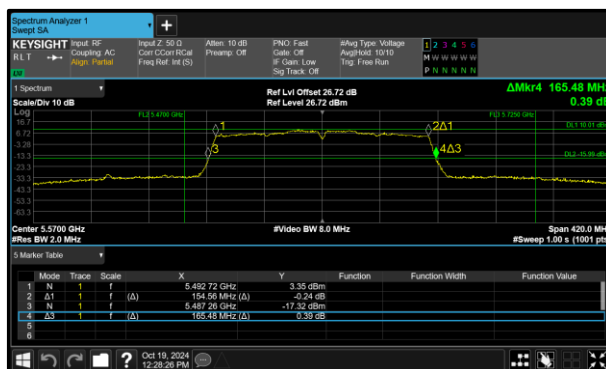


Figure 250 - 802.11ac VHT160 Minimum 26 dB EBW

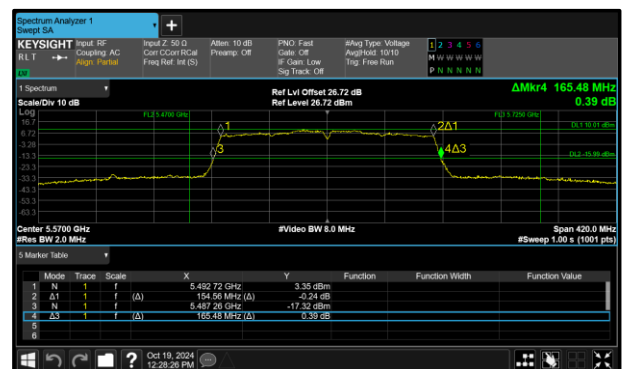


Figure 251 - 802.11ac VHT160 Maximum 26 dB EBW