

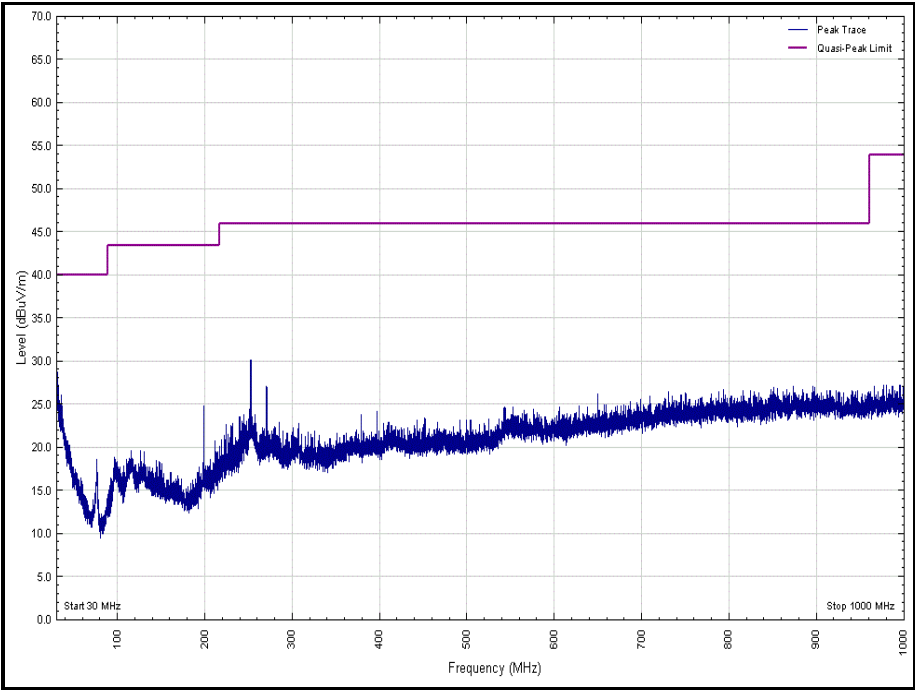


Figure 980 - U-NII 1 - 5180 MHz - 30 MHz to 1 GHz - Polarity: Horizontal (Peak)

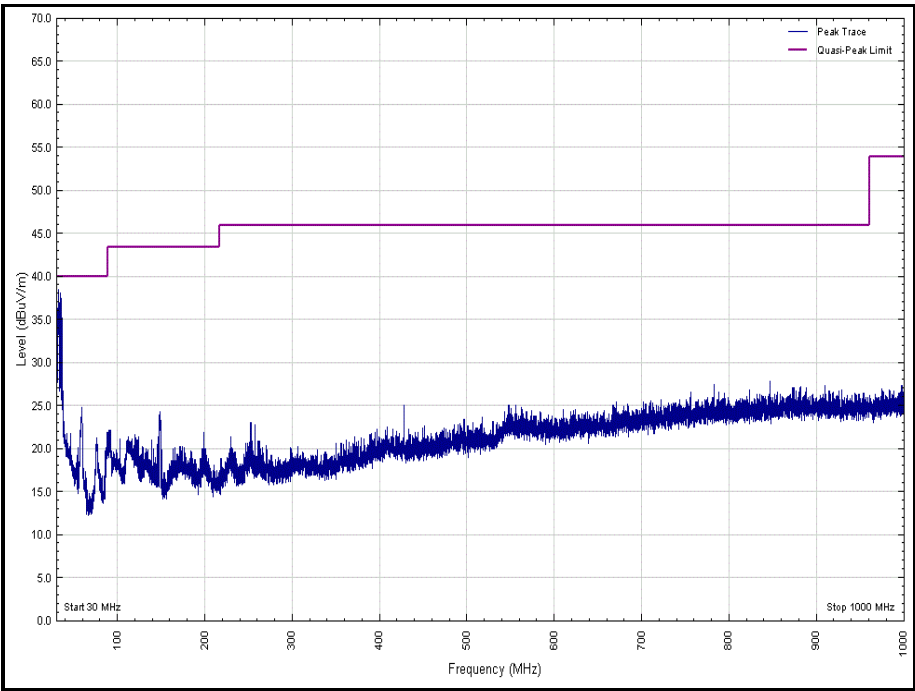


Figure 981 - U-NII 1 - 5180 MHz - 30 MHz to 1 GHz - Polarity: Vertical (Peak)

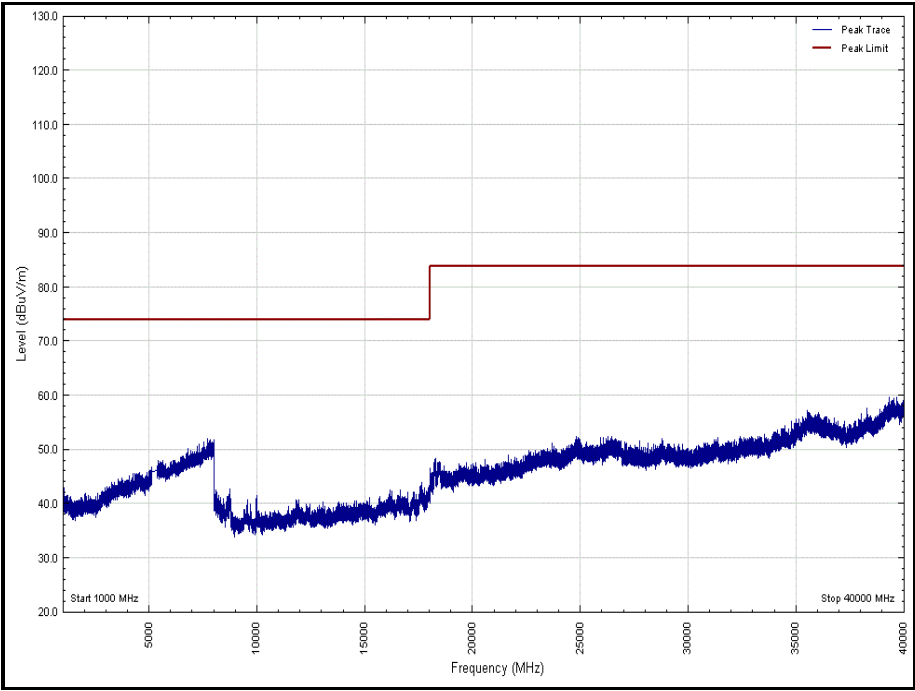


Figure 982 - U-NII 1 - 5180 MHz - 1 GHz to 40 GHz - Polarity: Horizontal (Peak)

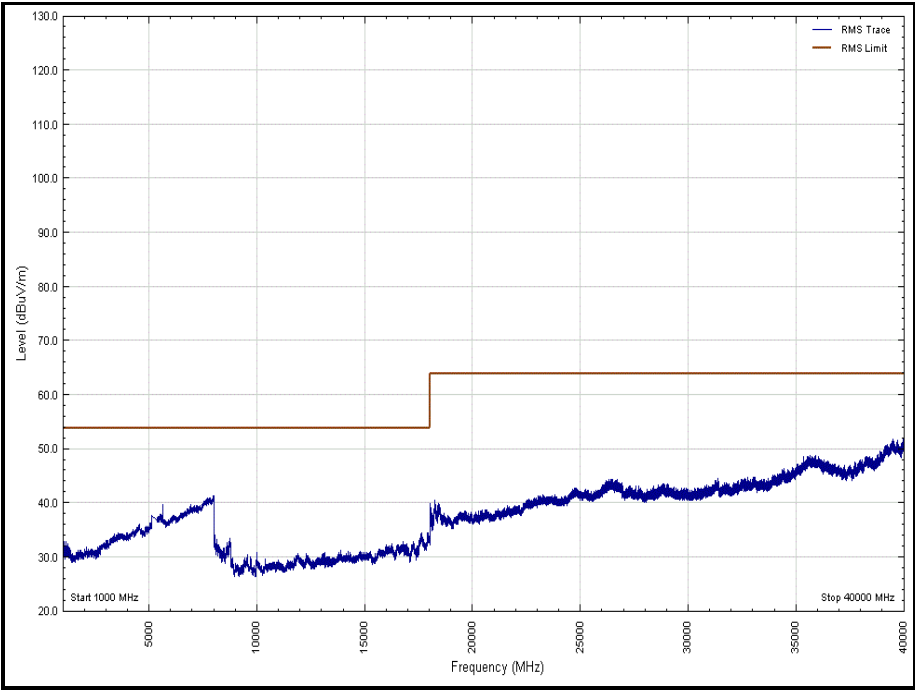


Figure 983 - U-NII 1 - 5180 MHz - 1 GHz to 40 GHz - Polarity: Horizontal (Average)

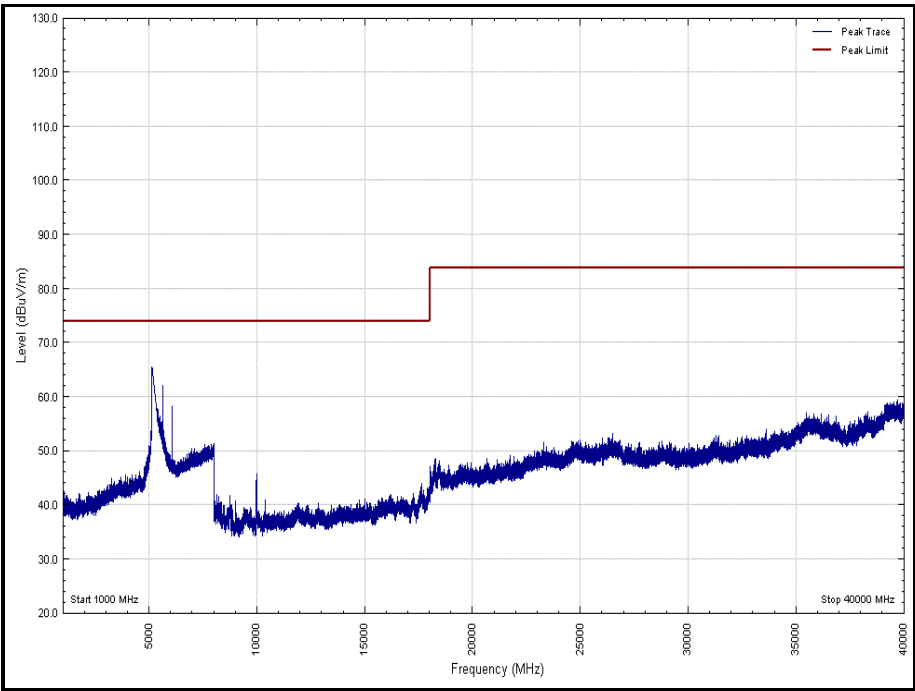


Figure 984 - U-NII 1 - 5180 MHz - 1 GHz to 40 GHz - Polarity: Vertical (Peak)

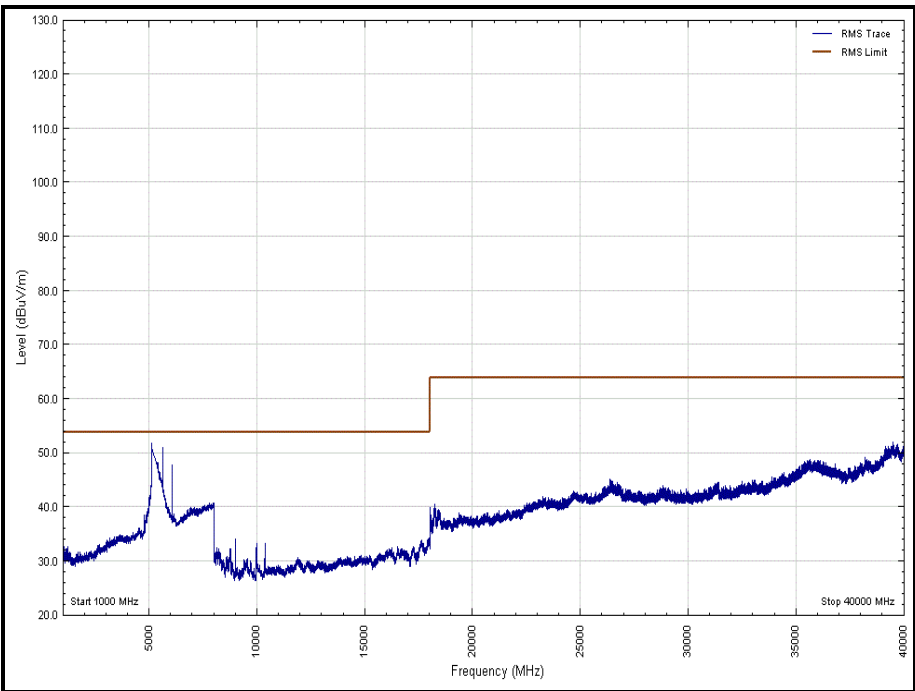


Figure 985 - U-NII 1 - 5180 MHz - 1 GHz to 40 GHz - Polarity: Vertical (Average)

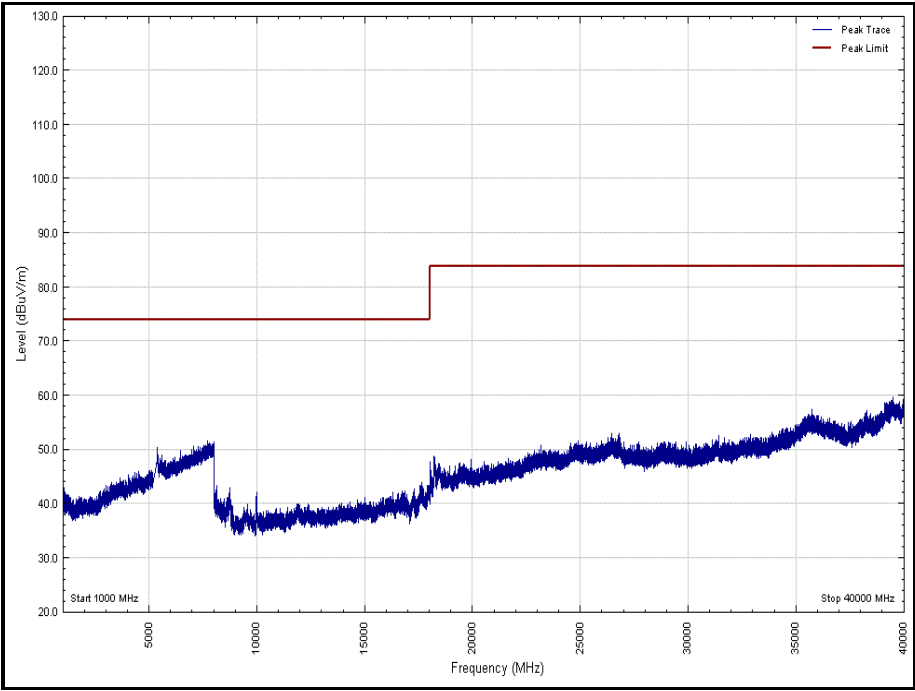


Figure 986 - U-NII 2a - 5320 MHz - 1 GHz to 40 GHz - Polarity: Horizontal (Peak)

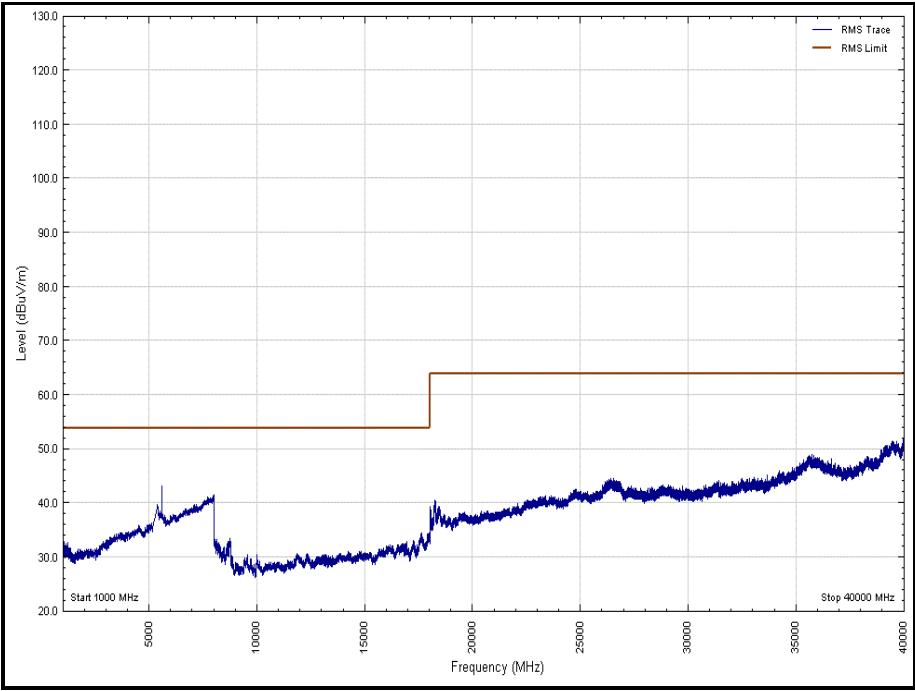


Figure 987 - U-NII 2a - 5320 MHz - 1 GHz to 40 GHz - Polarity: Horizontal (Average)

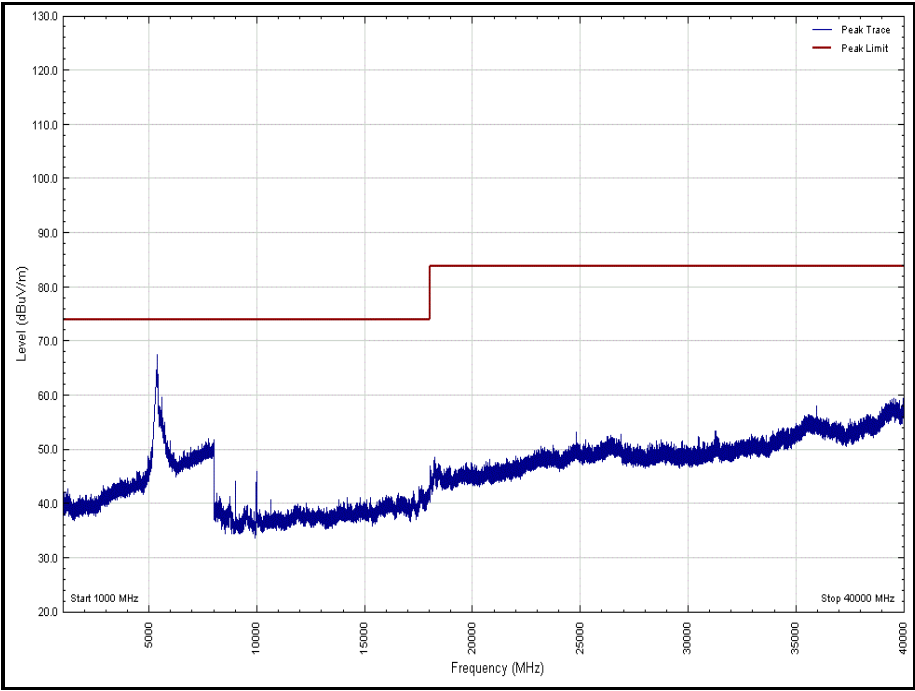


Figure 988 - U-NII 2a - 5320 MHz - 1 GHz to 40 GHz - Polarity: Vertical (Peak)

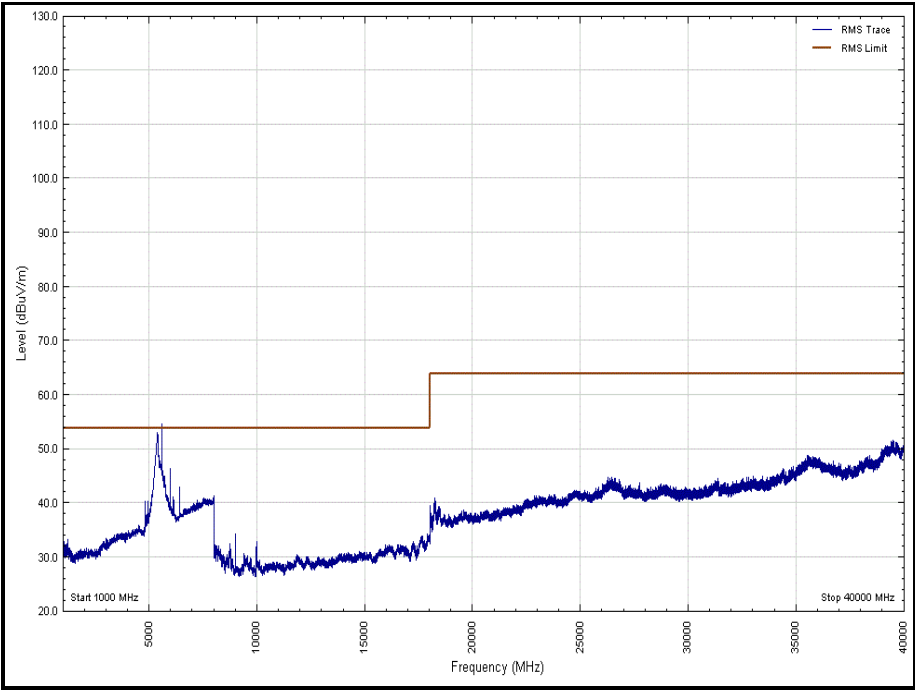


Figure 989 - U-NII 2a - 5320 MHz - 1 GHz to 40 GHz - Polarity: Vertical (Average)

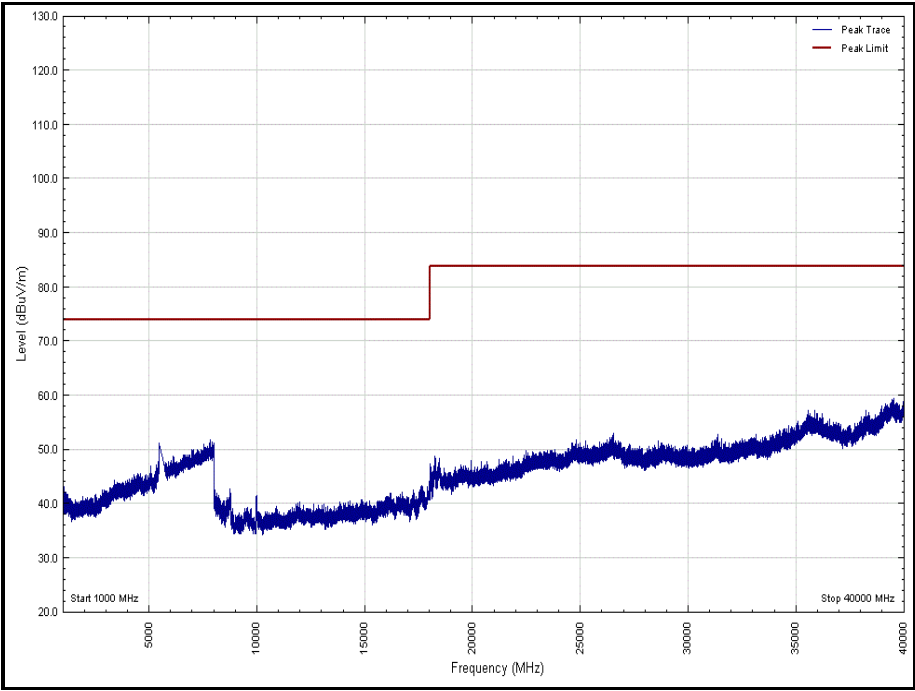


Figure 990 - U-NII 2c - 5550 MHz - 1 GHz to 40 GHz - Polarity: Horizontal (Peak)

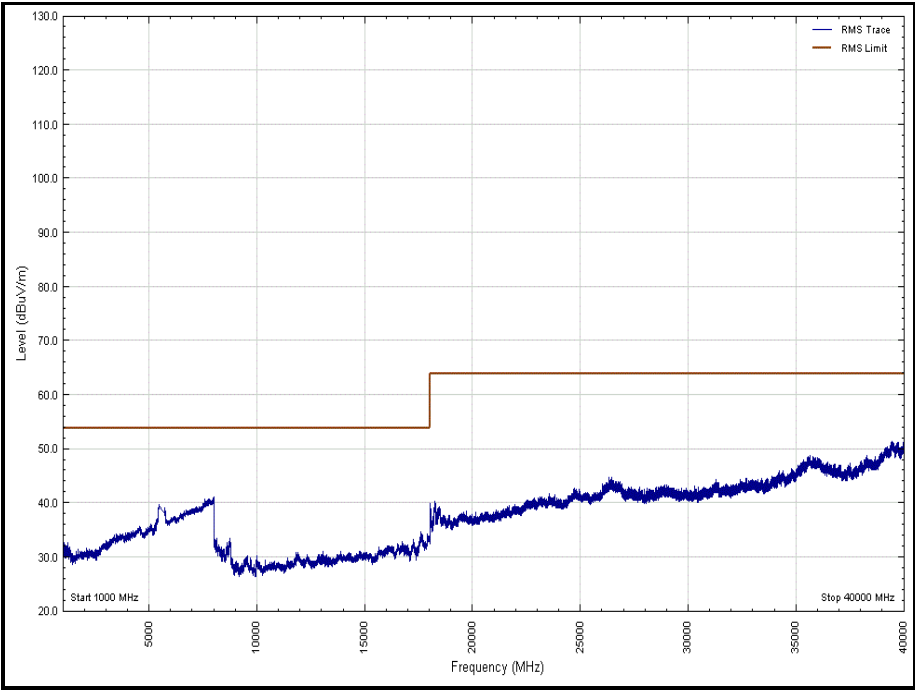


Figure 991 - U-NII 2c - 5550 MHz - 1 GHz to 40 GHz - Polarity: Horizontal (Average)

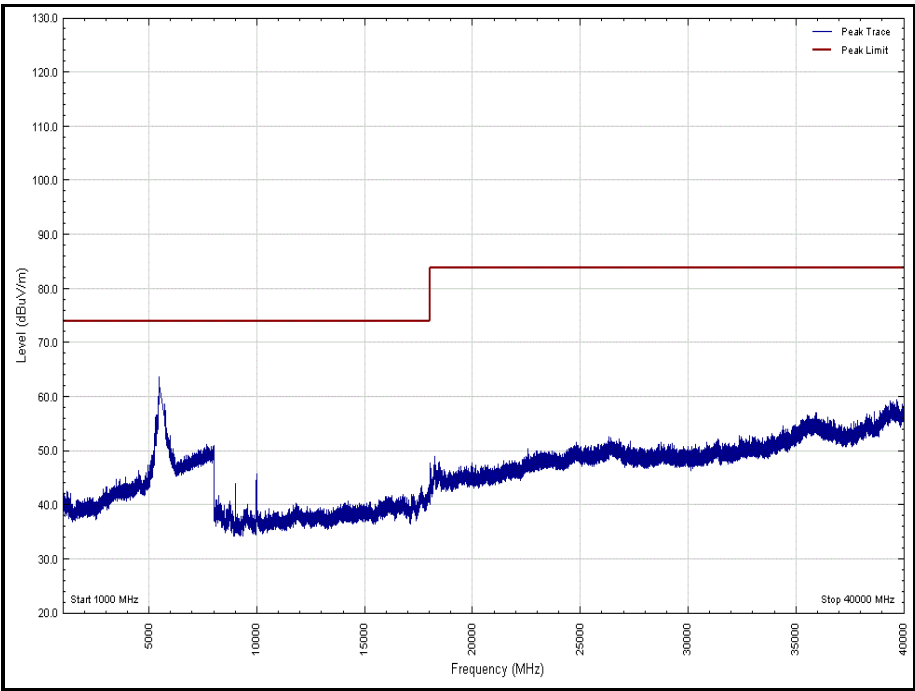


Figure 992 - U-NII 2c - 5550 MHz - 1 GHz to 40 GHz - Polarity: Vertical (Peak)

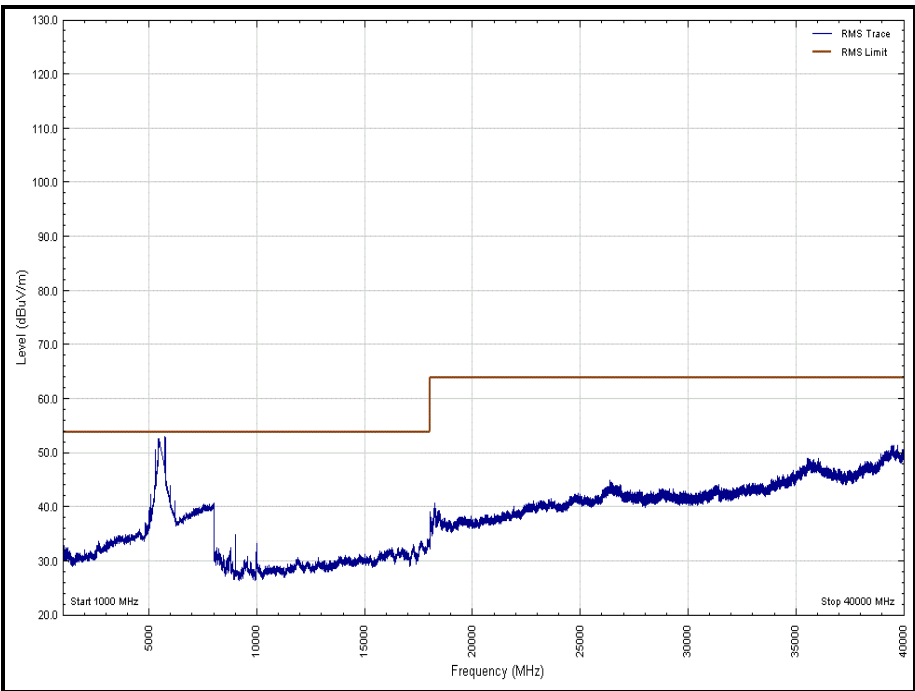


Figure 993 - U-NII 2c - 5550 MHz - 1 GHz to 40 GHz - Polarity: Vertical (Average)

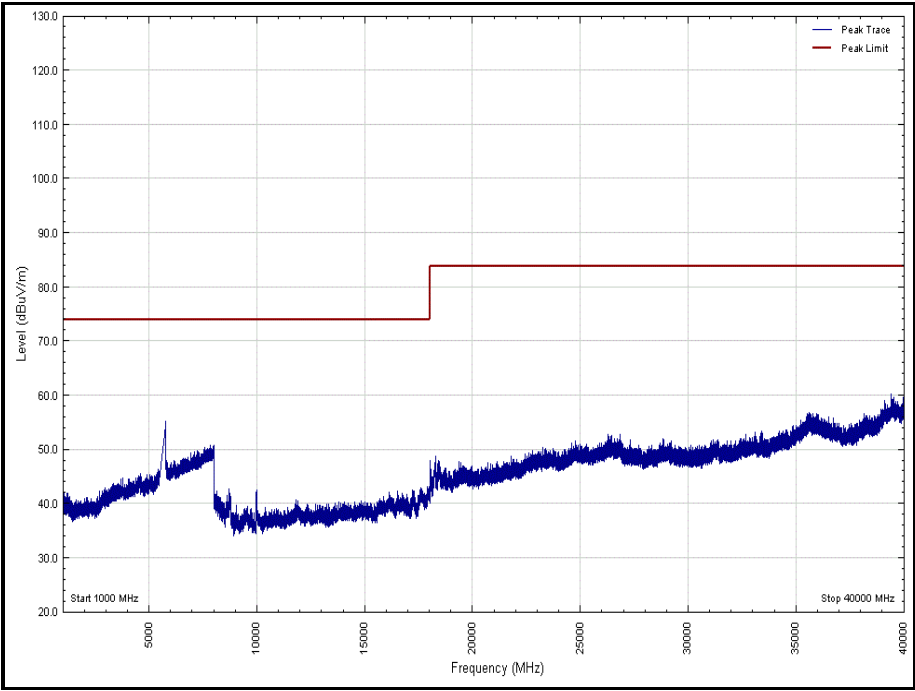


Figure 994 - U-NII 2c - 5700 MHz - 1 GHz to 40 GHz - Polarity: Horizontal (Peak)

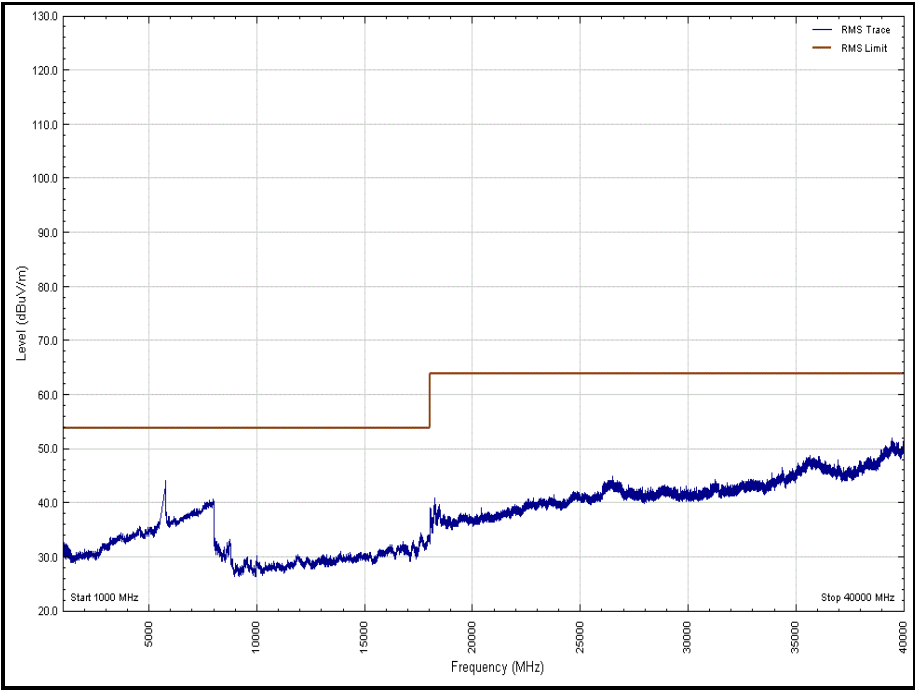


Figure 995 - U-NII 2c - 5700 MHz - 1 GHz to 40 GHz - Polarity: Horizontal (Average)

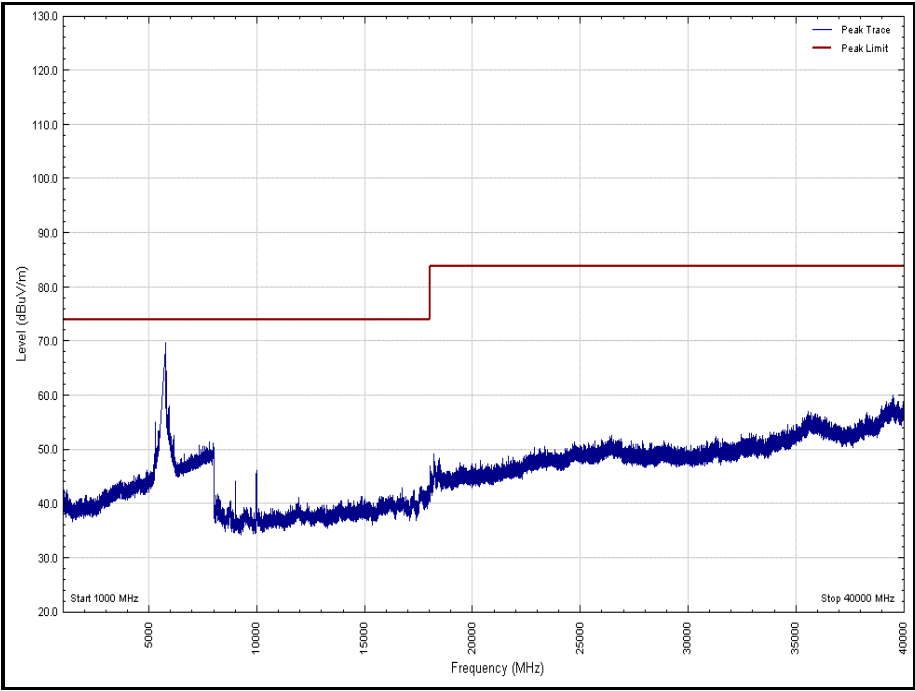


Figure 996 - U-NII 2c - 5700 MHz - 1 GHz to 40 GHz - Polarity: Vertical (Peak)

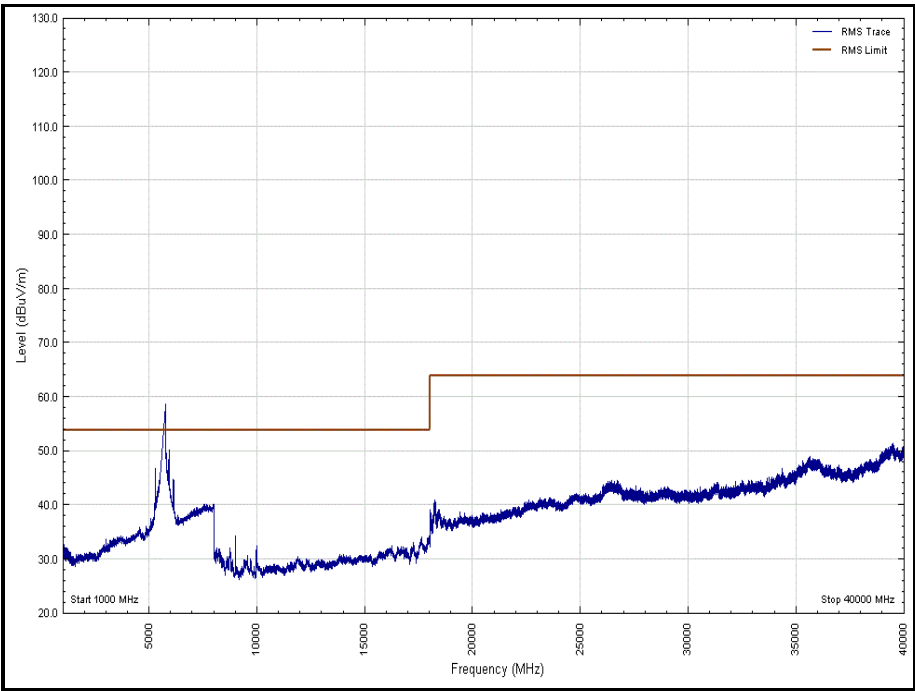


Figure 997 - U-NII 2c - 5700 MHz - 1 GHz to 40 GHz - Polarity: Vertical (Average)

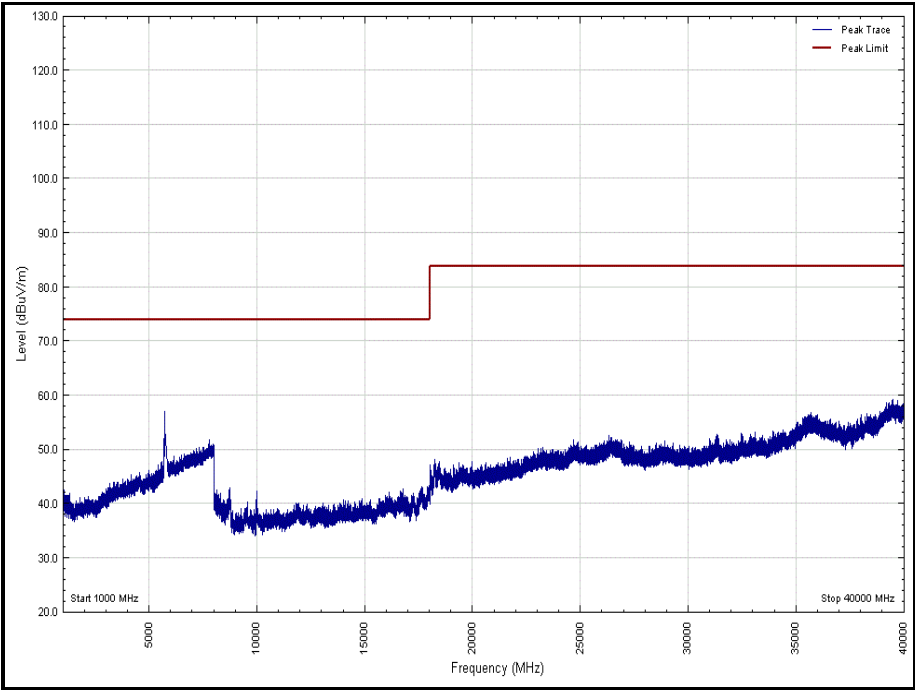


Figure 998 - U-NII 3 - 5745 MHz - 1 GHz to 40 GHz - Polarity: Horizontal (Peak)

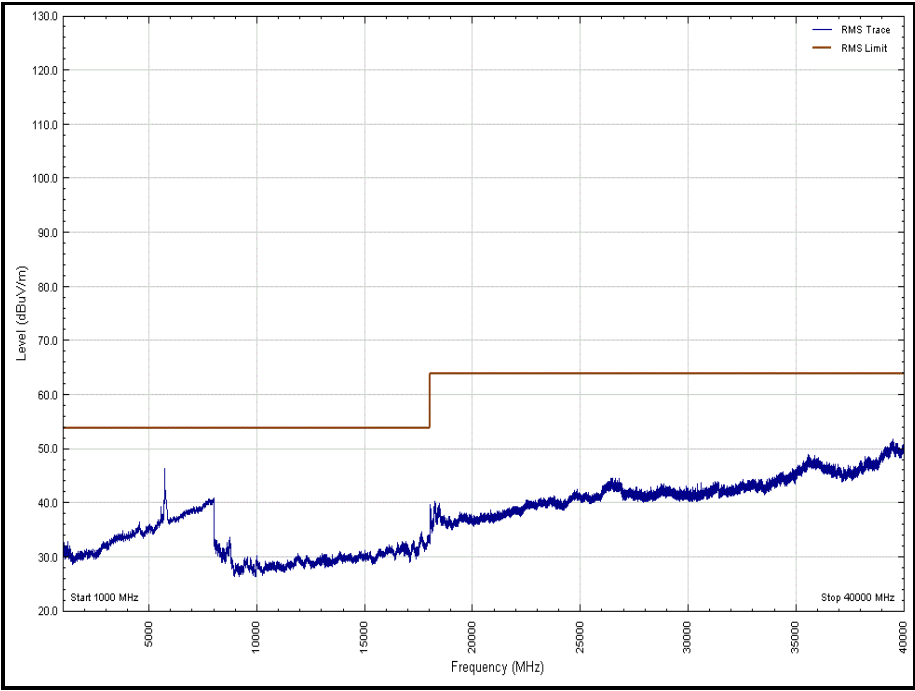


Figure 999 - U-NII 3- 5745 MHz - 1 GHz to 40 GHz - Polarity: Horizontal (Average)

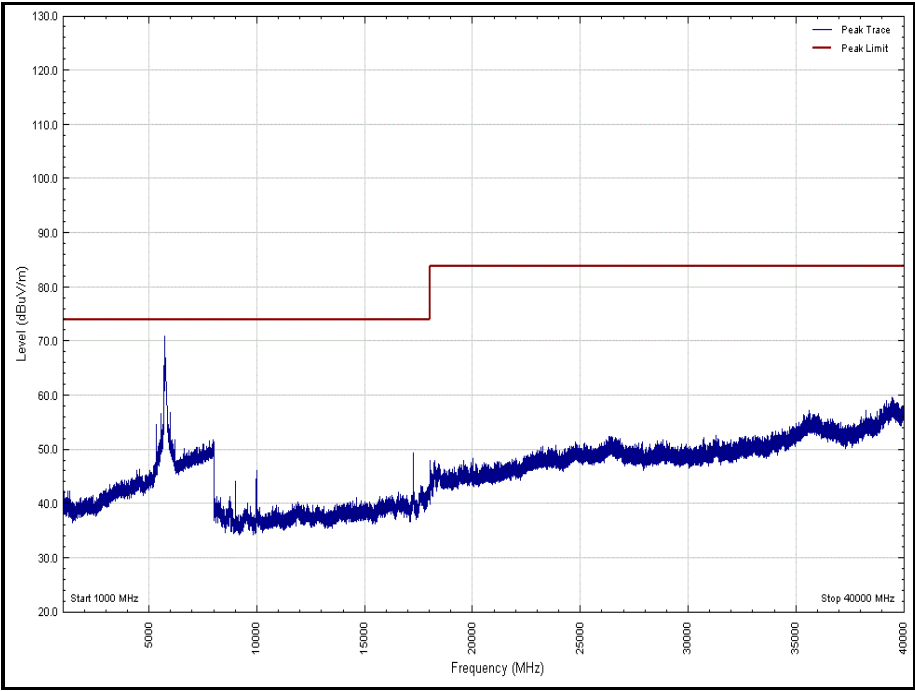


Figure 1000 - U-NII 3 - 5745 MHz - 1 GHz to 40 GHz - Polarity: Vertical (Peak)

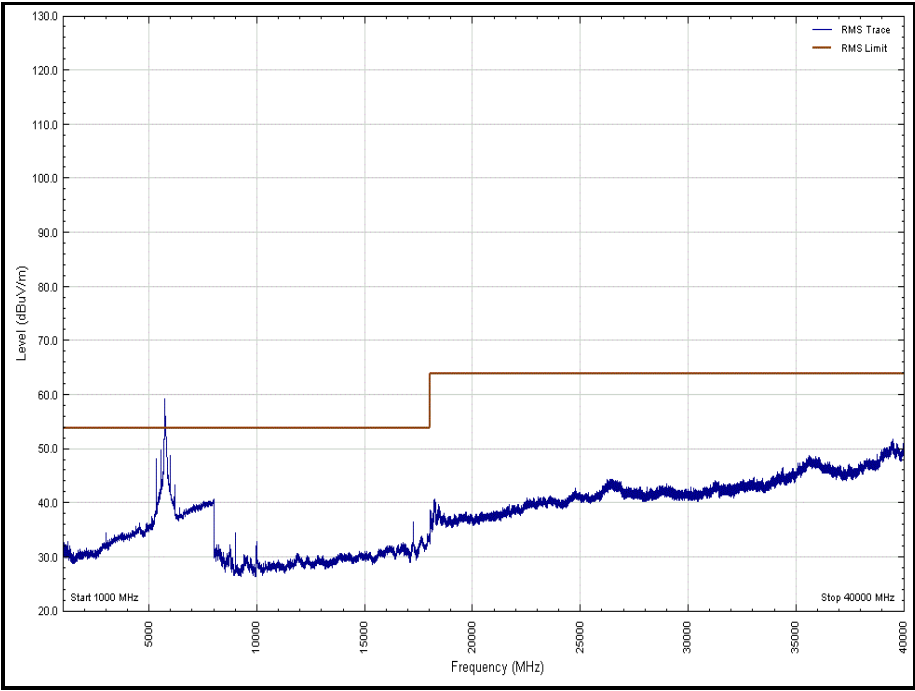


Figure 1001 - U-NII 3 - 5745MHz - 1 GHz to 40 GHz - Polarity: Vertical (Average)

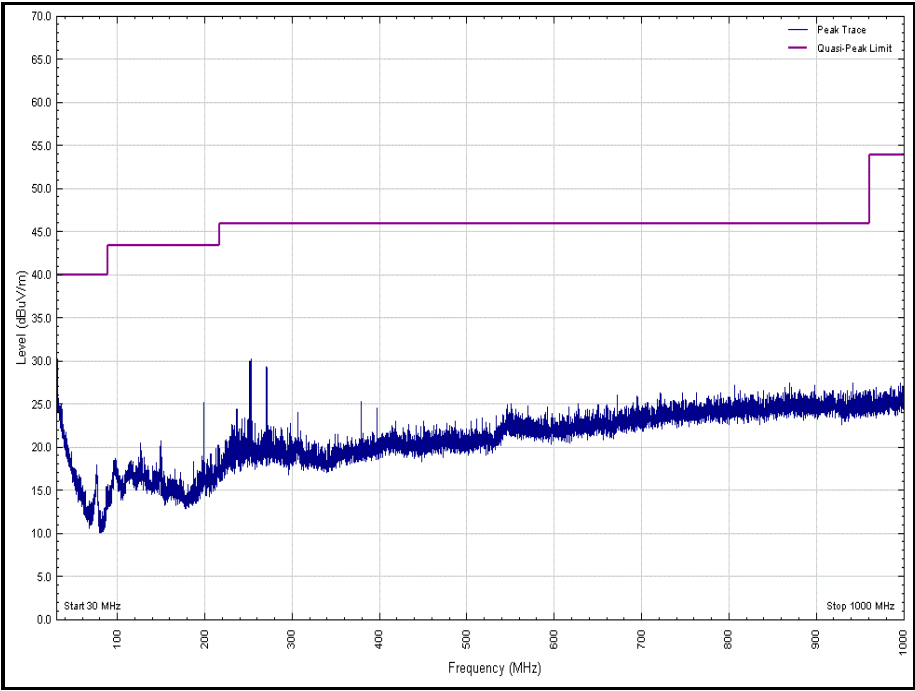


Figure 1002 - U-NII 3 - 5825 MHz – 30MHz to 1 GHz - Polarity: Horizontal (Peak)

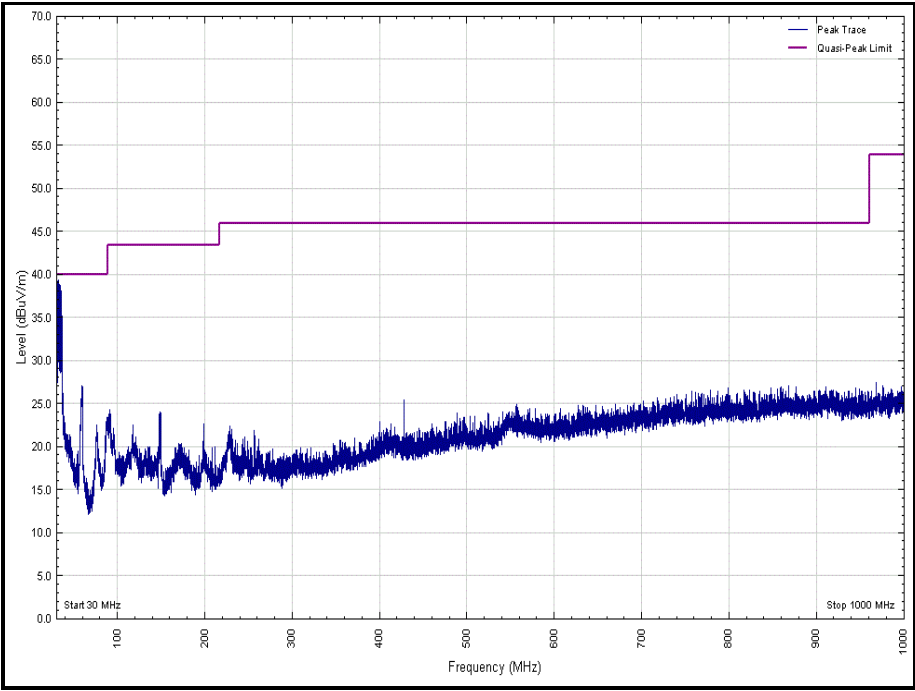


Figure 1003 - U-NII 3 - 5825 MHz – 30MHz to 1 GHz - Polarity: Vertical (Peak)

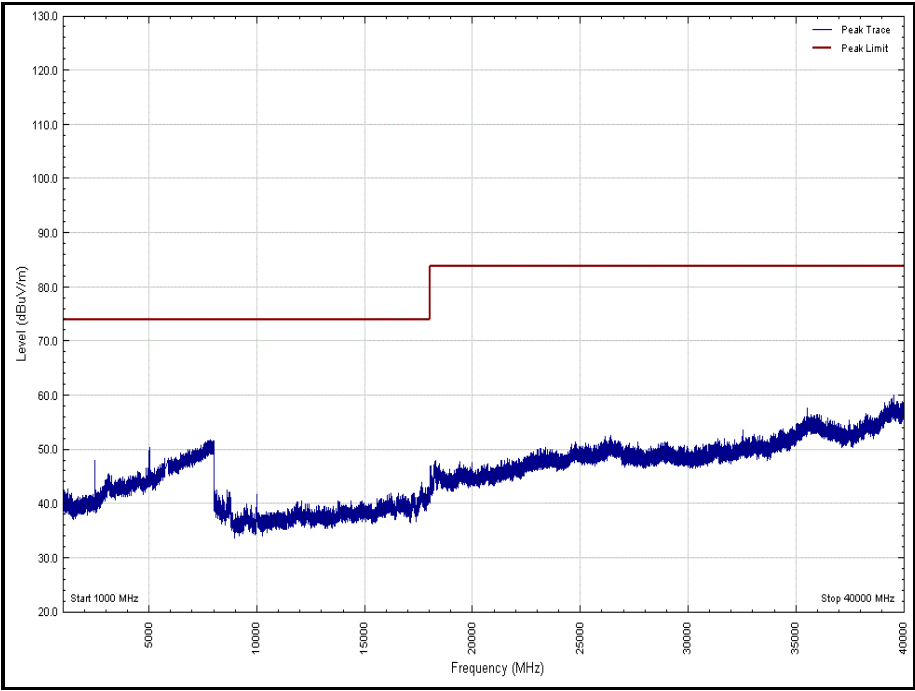


Figure 1004 - U-NII 3 - 5825 MHz - 1 GHz to 40 GHz - Polarity: Horizontal (Peak)

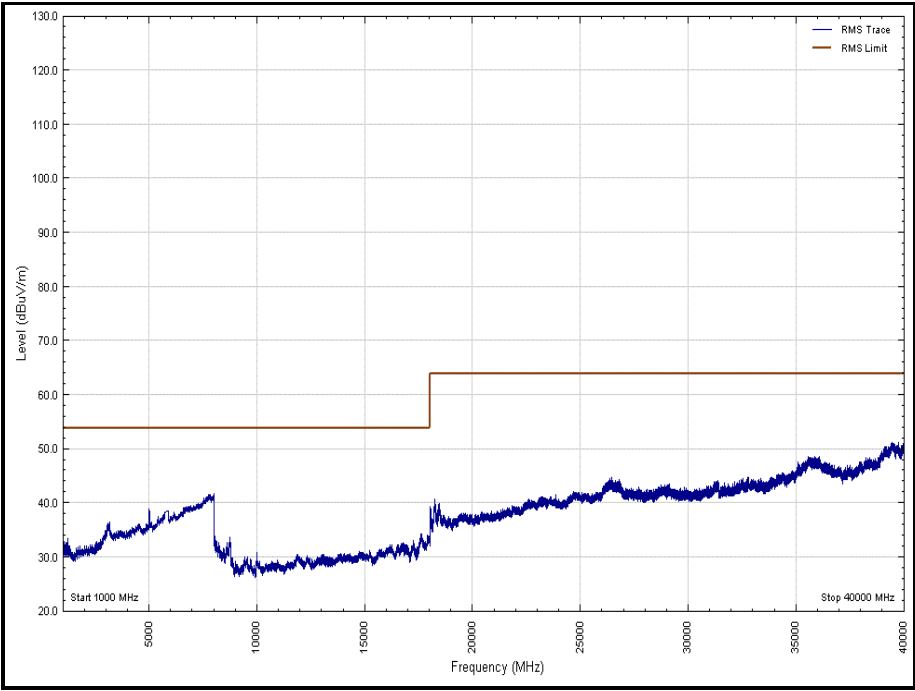


Figure 1005 - U-NII 3 - 5825 MHz - 1 GHz to 40 GHz - Polarity: Horizontal (Average)

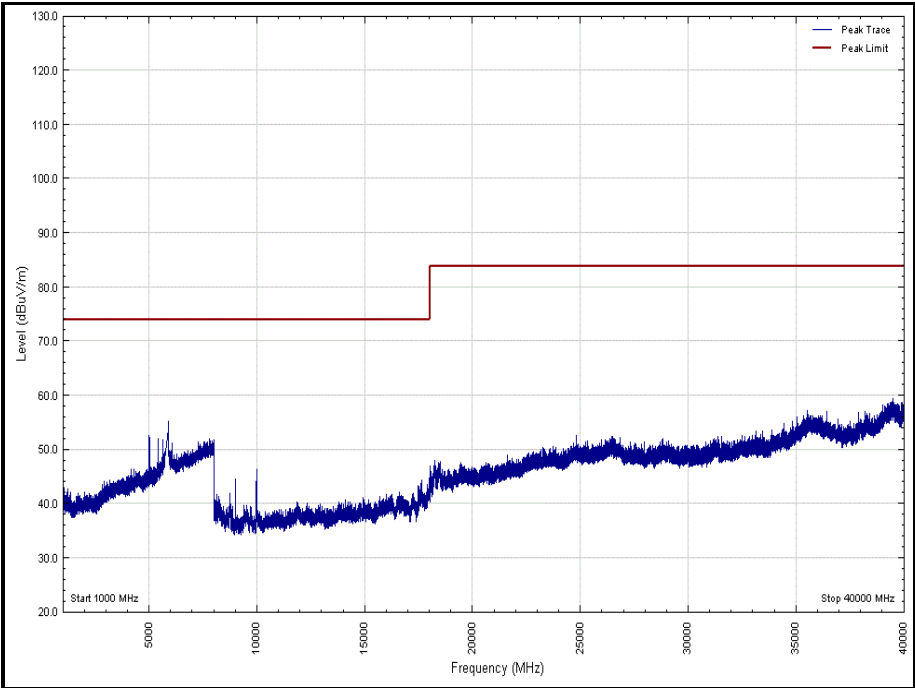


Figure 1006 - U-NII 3 - 5825 MHz - 1 GHz to 40 GHz - Polarity: Vertical (Peak)

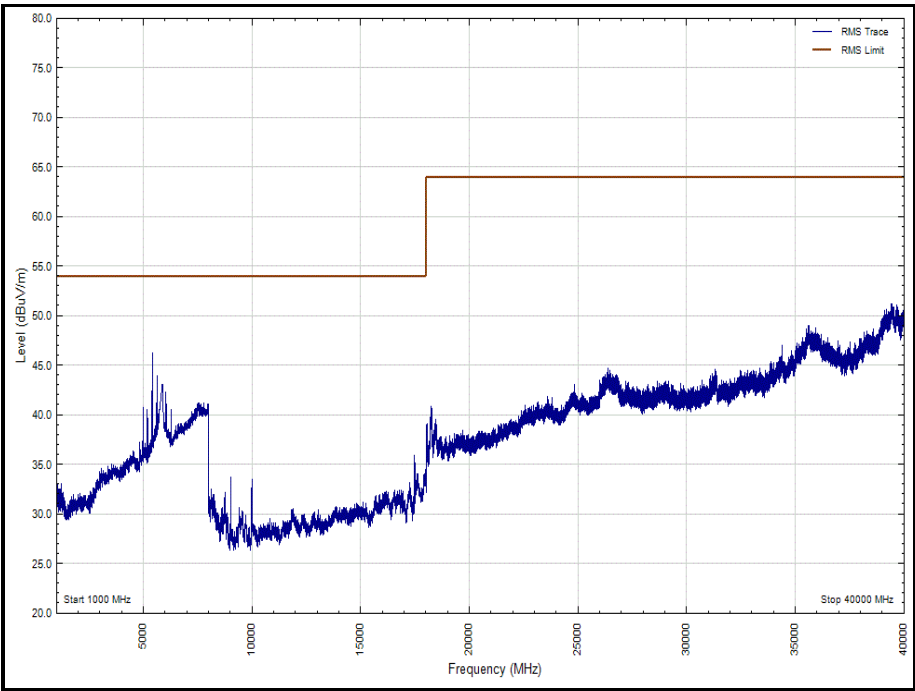


Figure 1007 - U-NII 3- 5825 MHz - 1 GHz to 40 GHz - Polarity: Vertical (Average)



AUX- 20 MHz Bandwidth

Testing was performed with the device operating at maximum output power, HT20 1TX as this was deemed to be worst case.

Frequency (GHz)	Result (µV/m)		Limit (µV/m)		Margin (µV/m)	
	Peak	Average	Peak	Average	Peak	Average
*						

Table 450 – 1 GHz to 40 GHz - Emissions Results

*No emissions were detected within 10 dB of the limit.

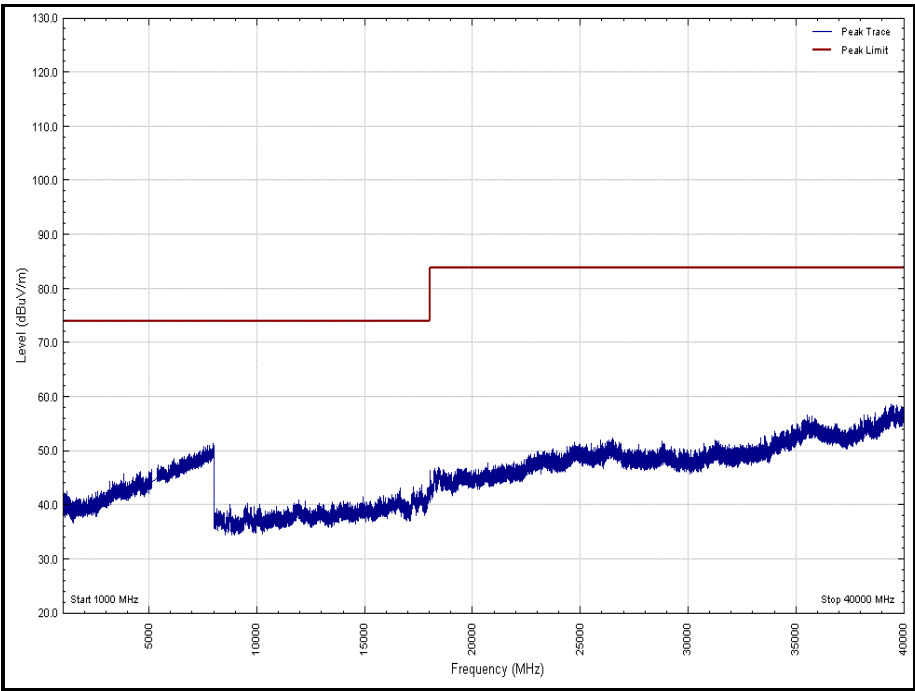


Figure 1008 - U-NII 1 - 5180 MHz - 1 GHz to 40 GHz - Polarity: Horizontal (Peak)

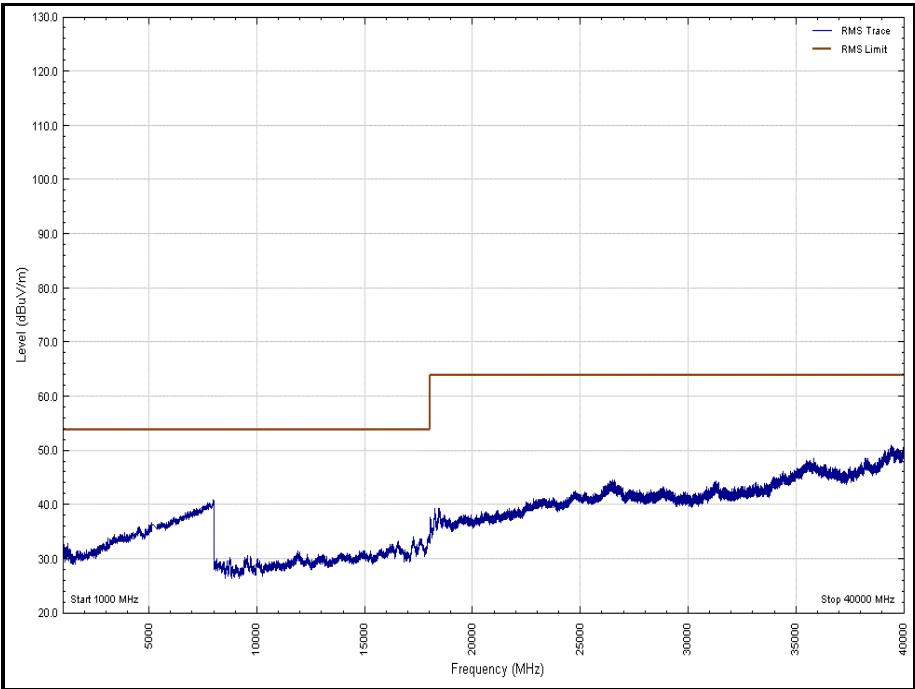


Figure 1009 - U-NII 1 - 5180 MHz - 1 GHz to 40 GHz - Polarity: Horizontal (Average)

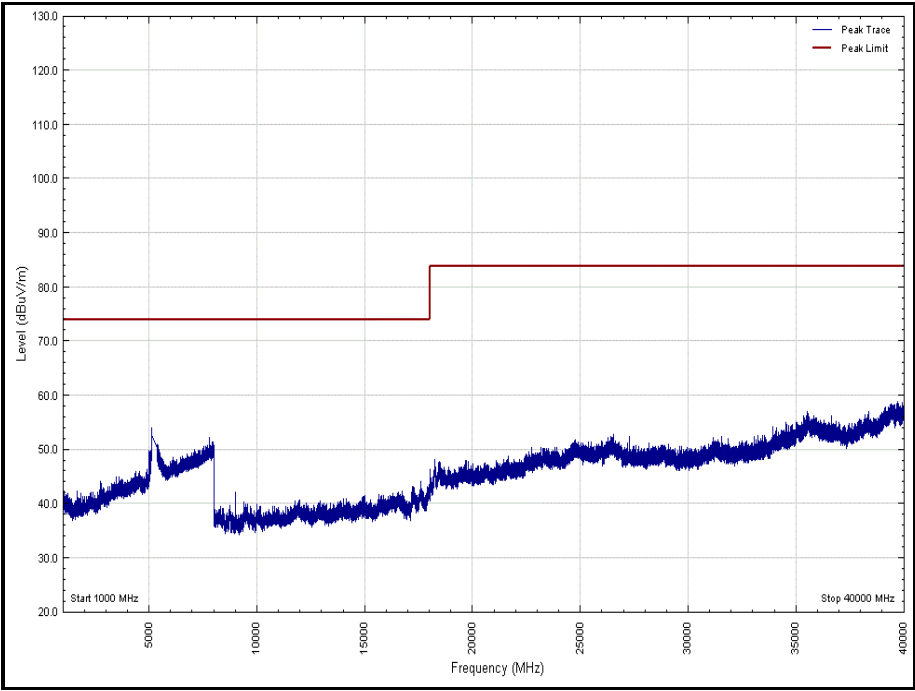


Figure 1010 - U-NII 1 - 5180 MHz - 1 GHz to 40 GHz - Polarity: Vertical (Peak)

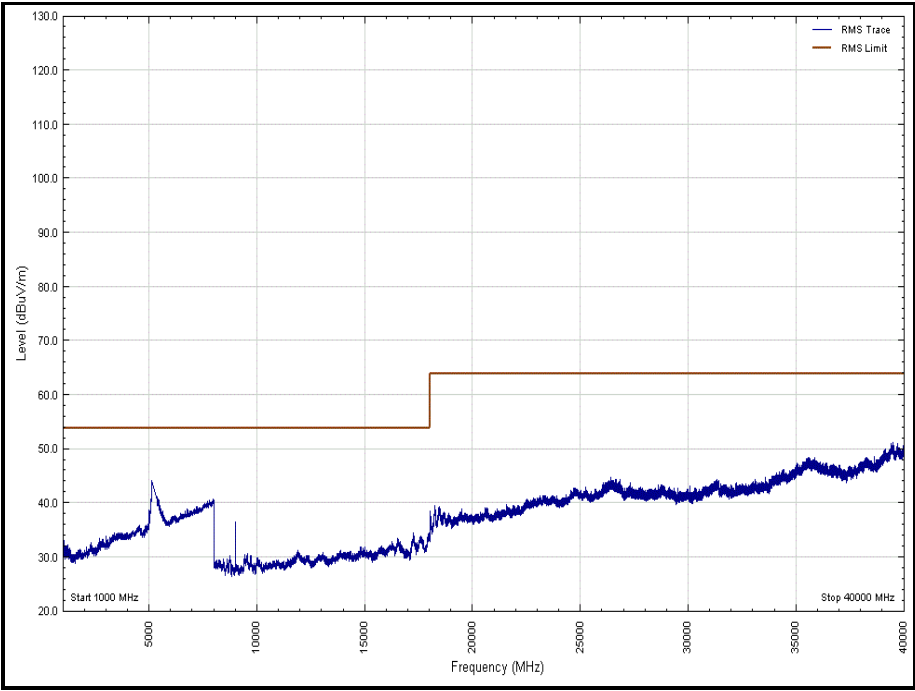


Figure 1011 - U-NII 1 - 5180 MHz - 1 GHz to 40 GHz - Polarity: Vertical (Average)

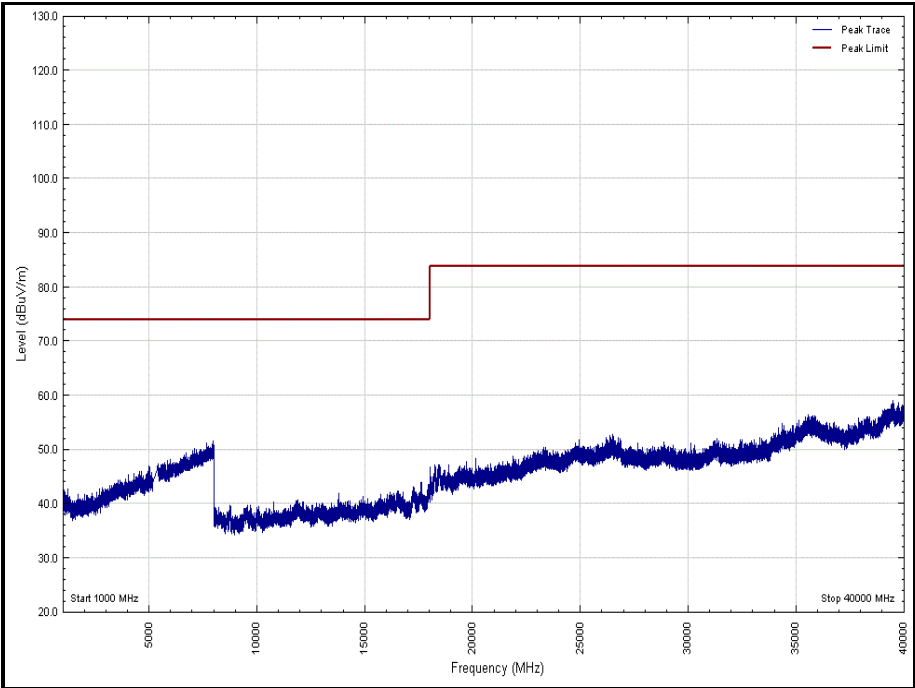


Figure 1012 - U-NII 2a - 5320 MHz - 1 GHz to 40 GHz - Polarity: Horizontal (Peak)

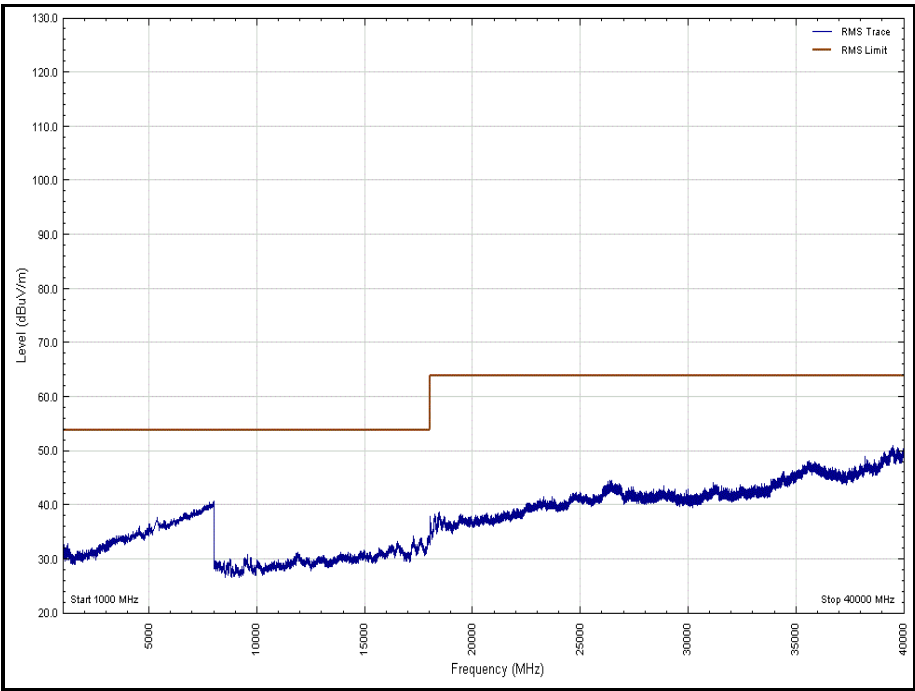


Figure 1013 - U-NII 2a - 5320 MHz - 1 GHz to 40 GHz - Polarity: Horizontal (Average)

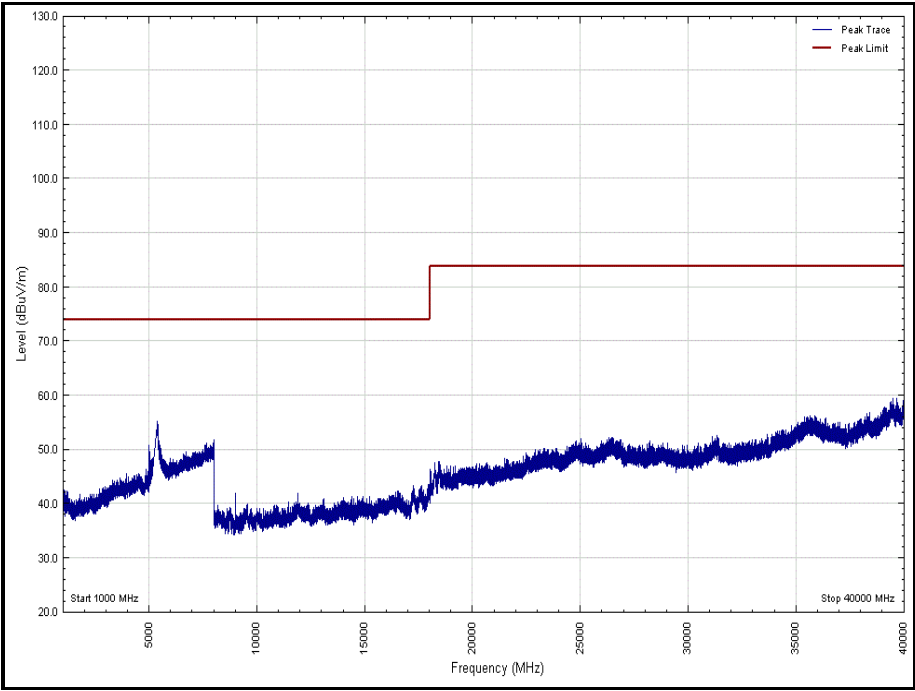


Figure 1014 - U-NII 2a - 5320 MHz - 1 GHz to 40 GHz - Polarity: Vertical (Peak)

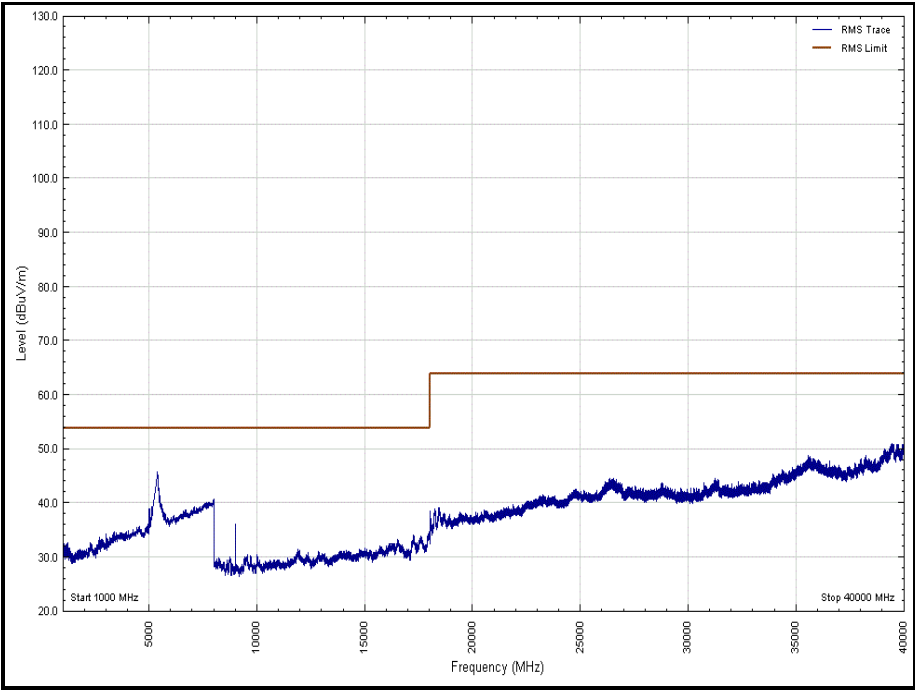


Figure 1015 - U-NII 2a - 5320 MHz - 1 GHz to 40 GHz - Polarity: Vertical (Average)

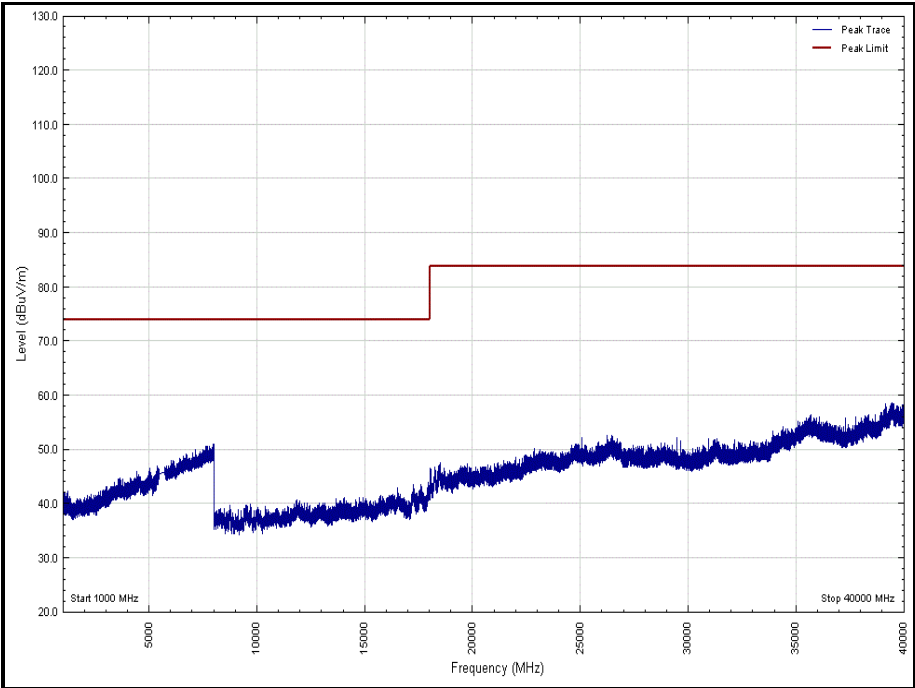


Figure 1016 - U-NII 2c - 5550 MHz - 1 GHz to 40 GHz - Polarity: Horizontal (Peak)

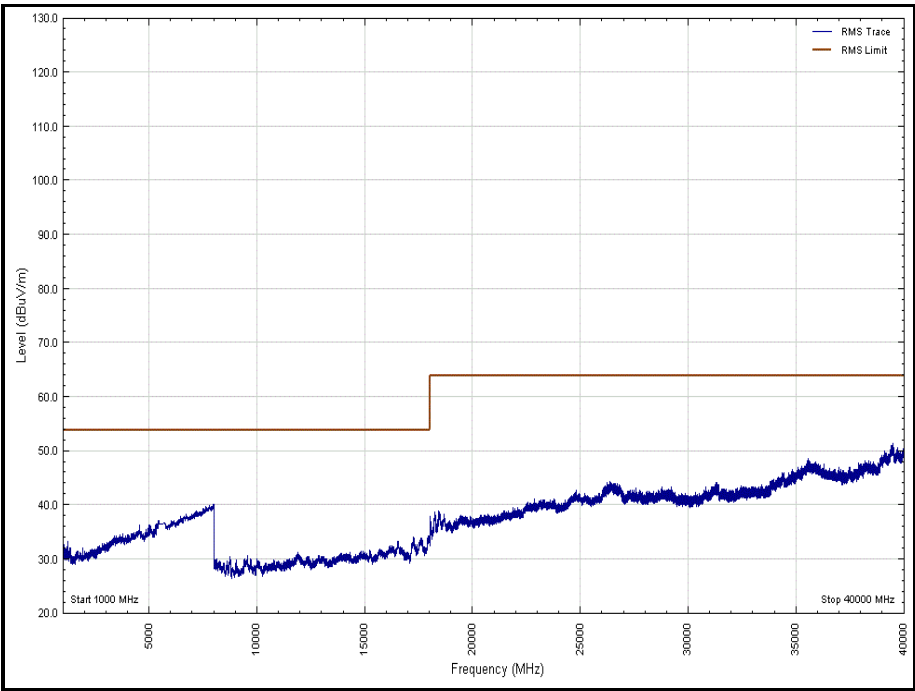


Figure 1017 - U-NII 2c - 5550 MHz - 1 GHz to 40 GHz - Polarity: Horizontal (Average)

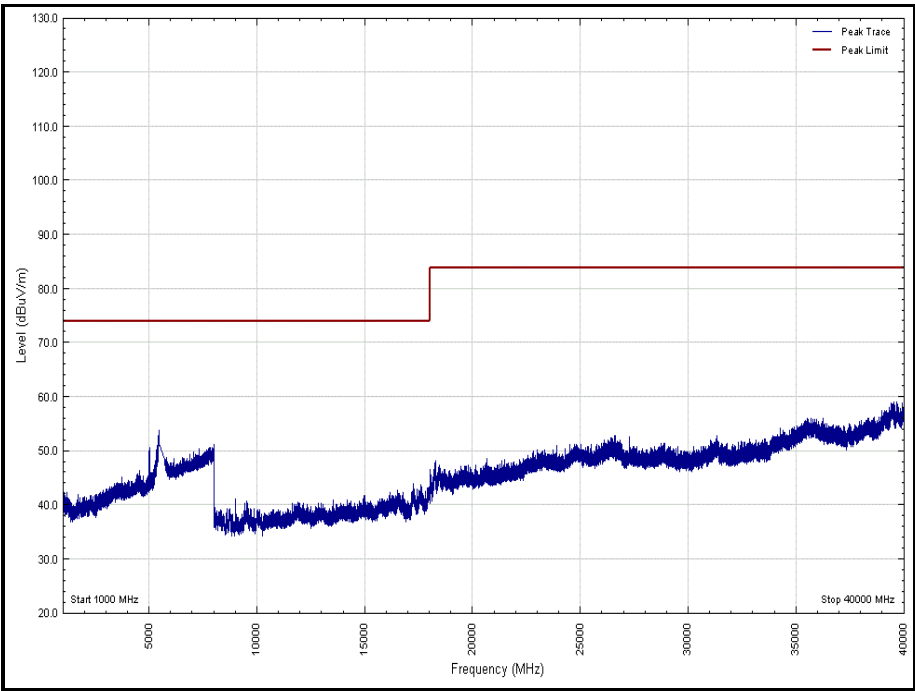


Figure 1018 - U-NII 2c - 5550 MHz - 1 GHz to 40 GHz - Polarity: Vertical (Peak)

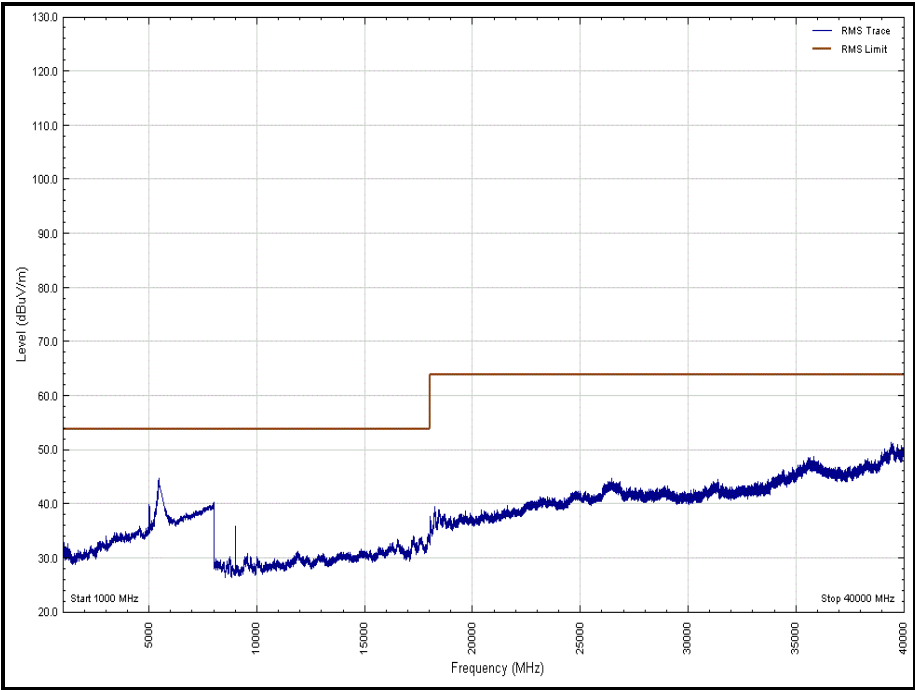


Figure 1019 - U-NII 2c - 5550 MHz - 1 GHz to 40 GHz - Polarity: Vertical (Average)

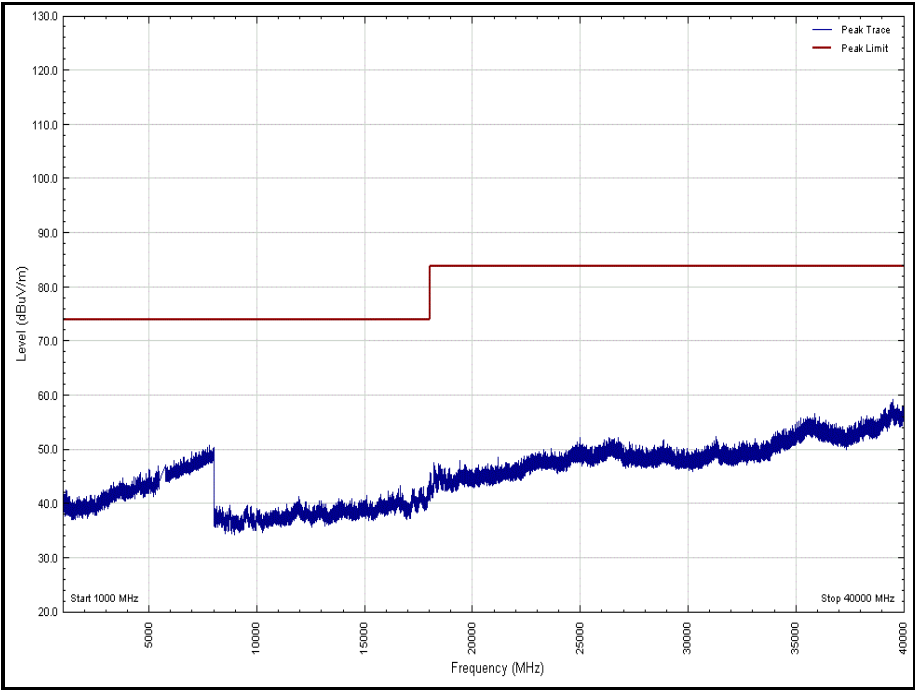


Figure 1020 - U-NII 2c - 5700 MHz - 1 GHz to 40 GHz - Polarity: Horizontal (Peak)

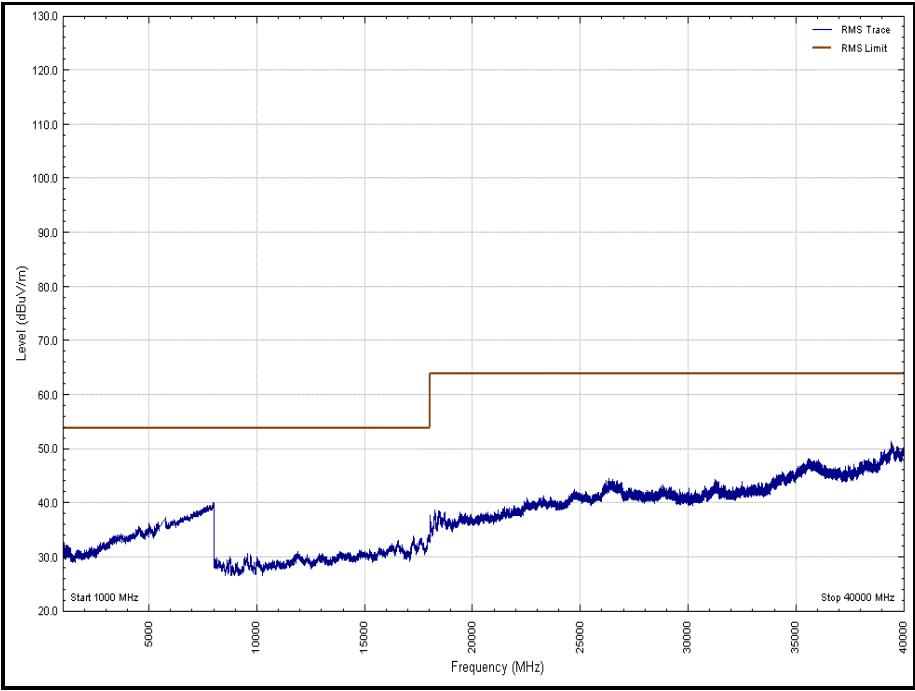


Figure 1021 - U-NII 2c - 5700 MHz - 1 GHz to 40 GHz - Polarity: Horizontal (Average)

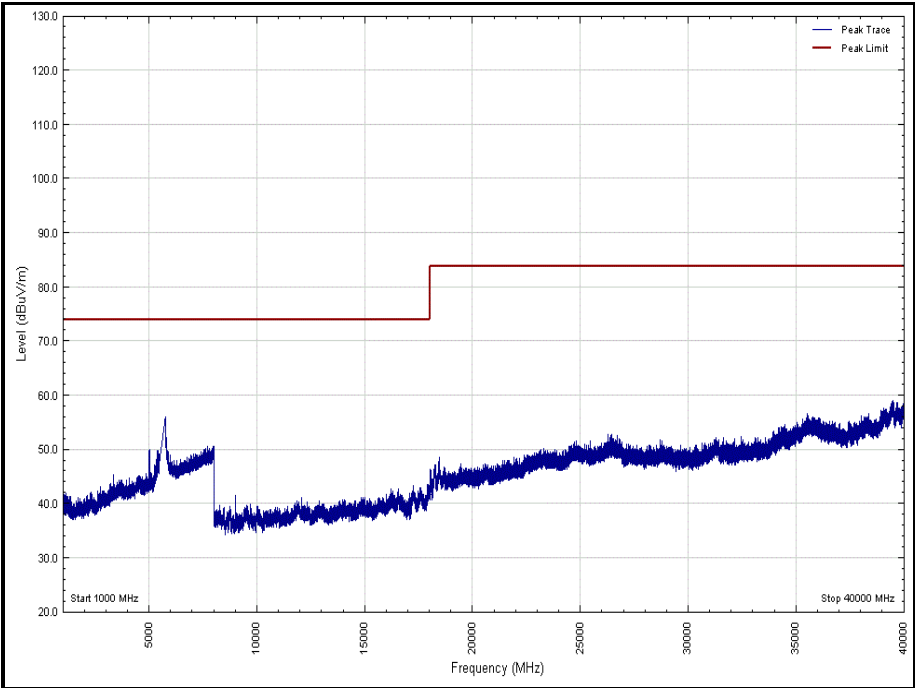


Figure 1022 - U-NII 2c - 5700 MHz - 1 GHz to 40 GHz - Polarity: Vertical (Peak)

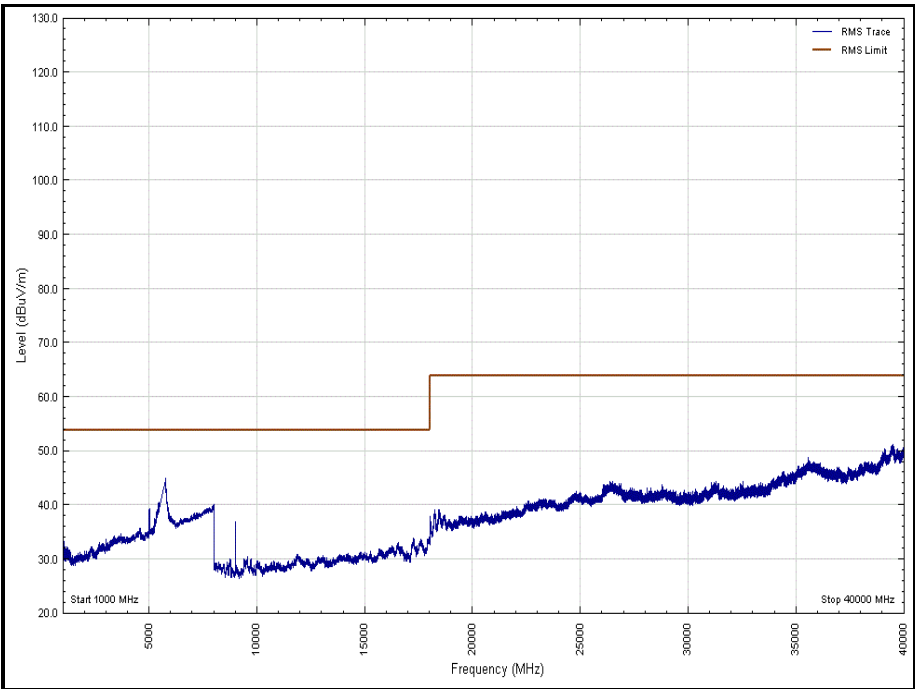


Figure 1023 - U-NII 2c - 5700 MHz - 1 GHz to 40 GHz - Polarity: Vertical (Average)

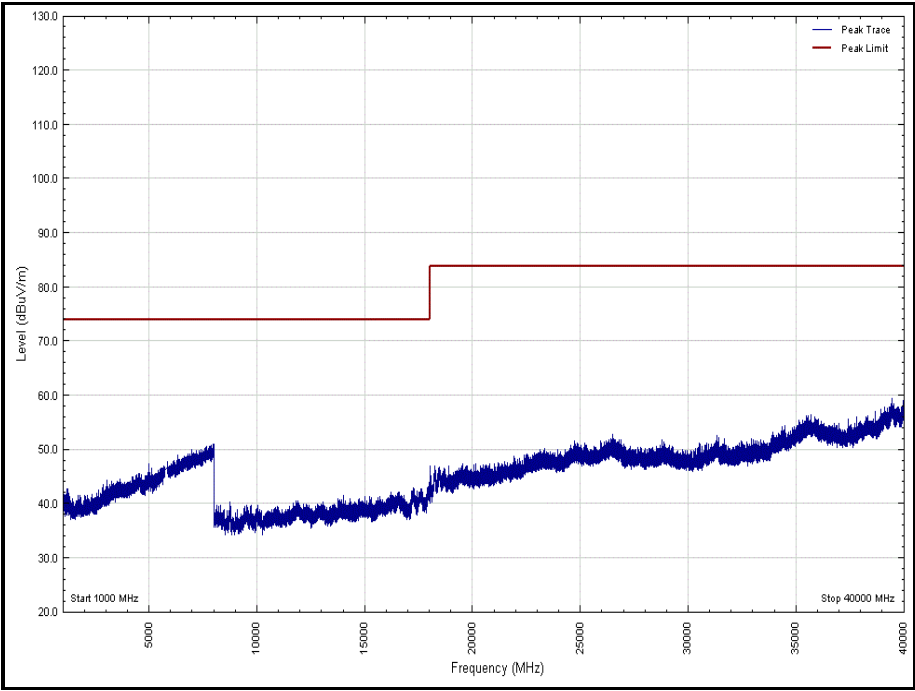


Figure 1024 - U-NII 3 - 5745 MHz - 1 GHz to 40 GHz - Polarity: Horizontal (Peak)

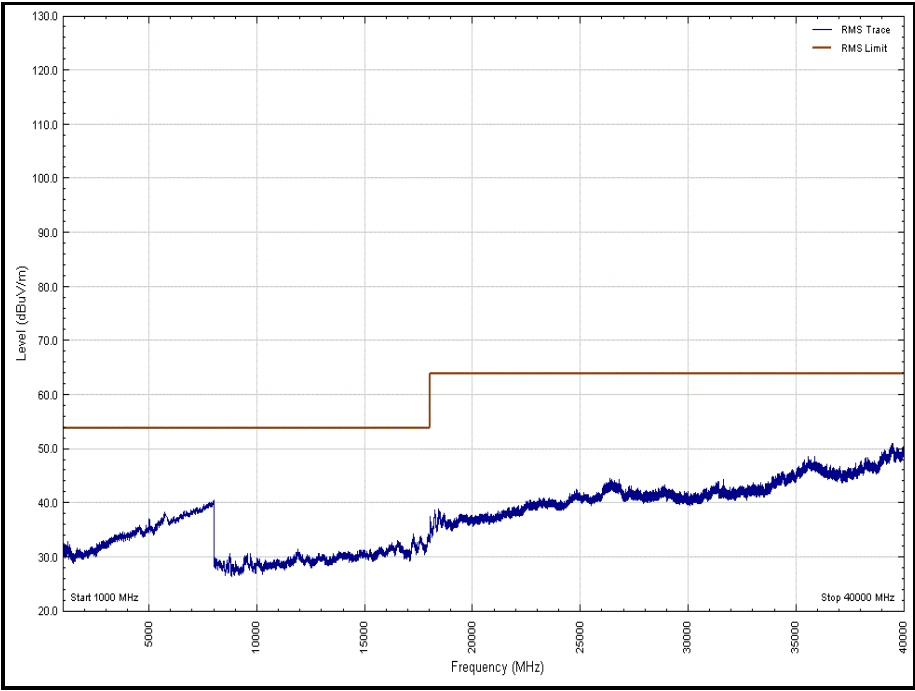


Figure 1025 - U-NII 3- 5745 MHz - 1 GHz to 40 GHz - Polarity: Horizontal (Average)

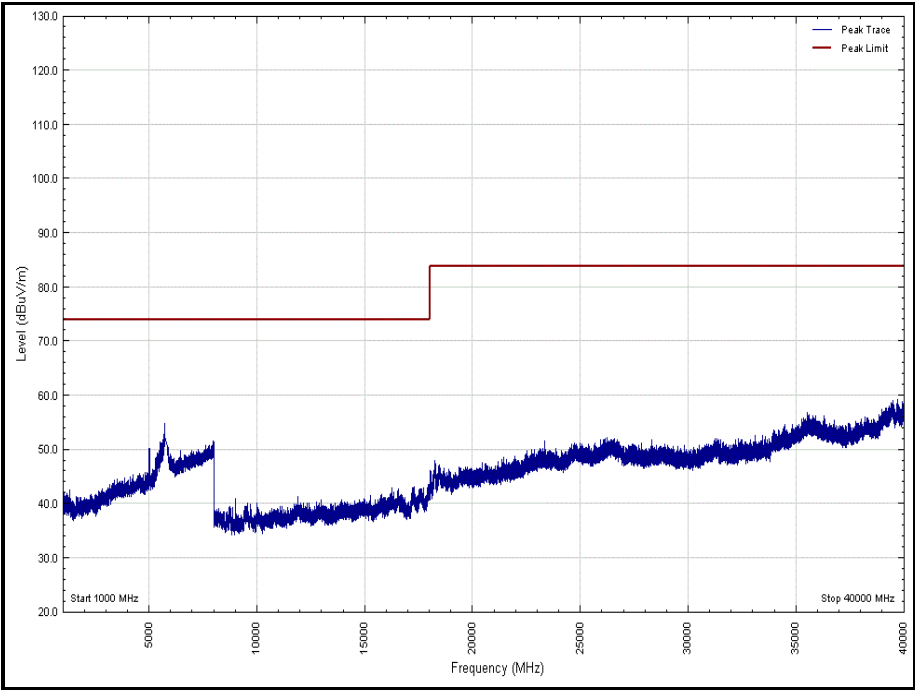


Figure 1026 - U-NII 3 - 5745 MHz - 1 GHz to 40 GHz - Polarity: Vertical (Peak)

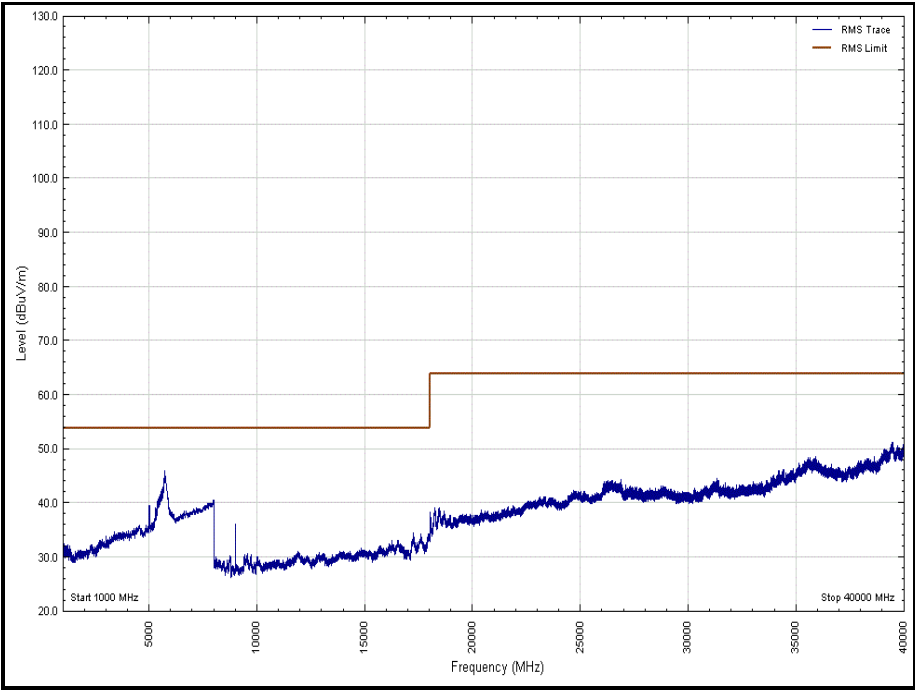


Figure 1027 - U-NII 3 - 5745MHz - 1 GHz to 40 GHz - Polarity: Vertical (Average)

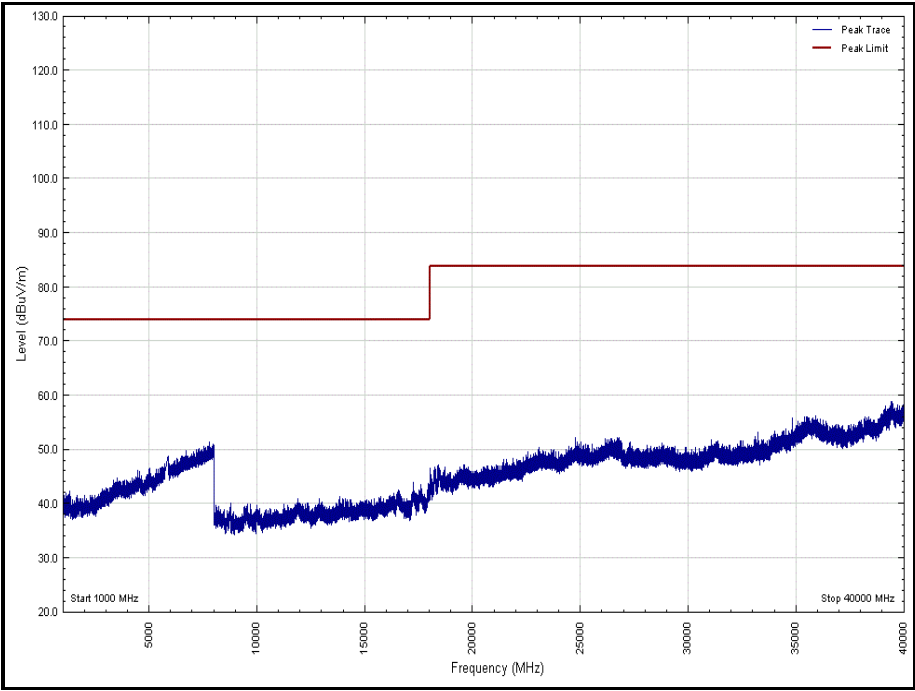


Figure 1028 - U-NII 3 - 5825 MHz - 1 GHz to 40 GHz - Polarity: Horizontal (Peak)

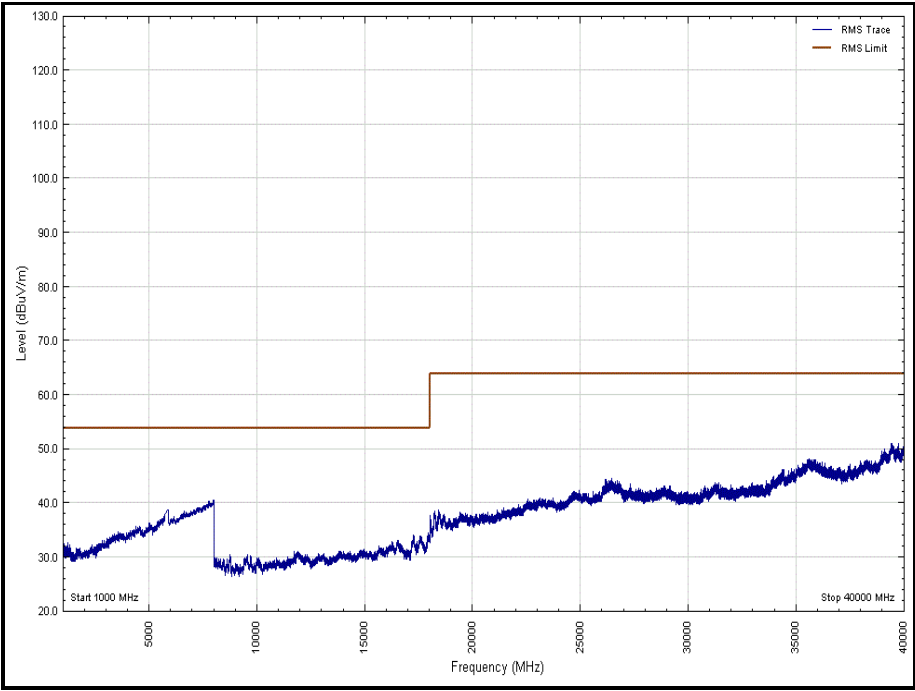


Figure 1029 - U-NII 3 - 5825 MHz - 1 GHz to 40 GHz - Polarity: Horizontal (Average)

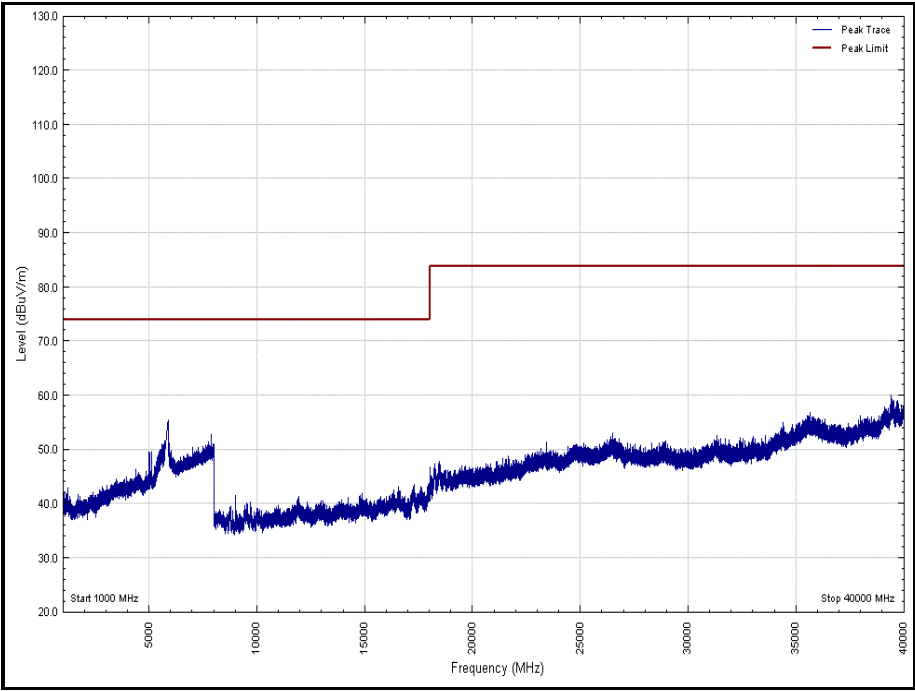


Figure 1030 - U-NII 3 - 5825 MHz - 1 GHz to 40 GHz - Polarity: Vertical (Peak)

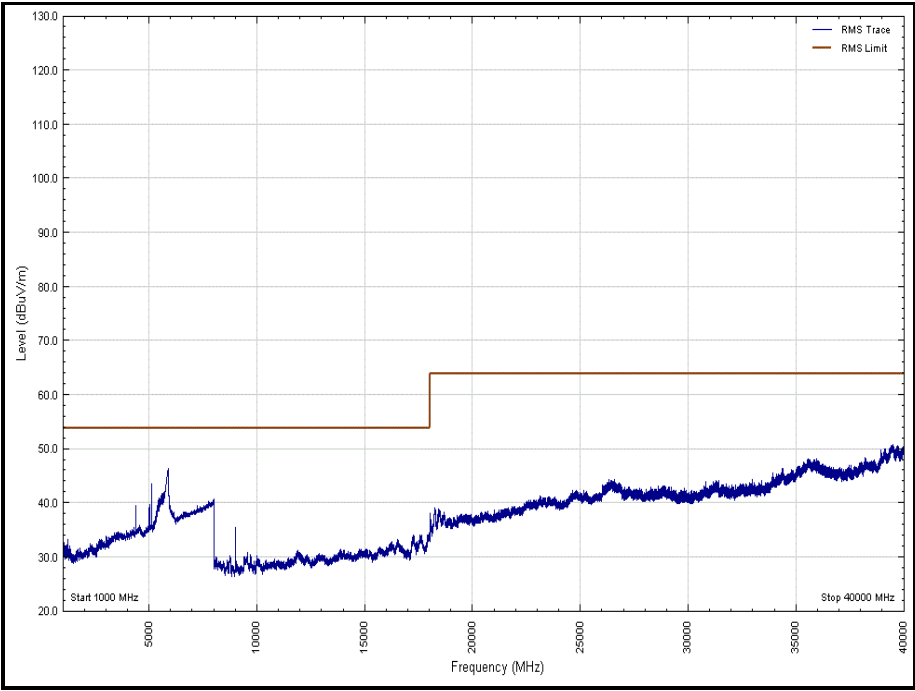


Figure 1031 - U-NII 3- 5825 MHz - 1 GHz to 40 GHz - Polarity: Vertical (Average)



FCC 47 CFR Part 15, Limit Clause 15.407(b)(1)(2)(3)(4)

Emissions not falling within the restricted bands listed in FCC 47 CFR Part 15.209:

For transmitters operating in the 5.15-5.25 GHz band: ≤ -27 dBm/MHz outside 5150-5350 MHz.

For transmitters operating in the 5.25-5.35 GHz band: ≤ -27 dBm/MHz outside 5150-5350 MHz.

For transmitters operating in the 5.47-5.725 GHz band: ≤ -27 dBm/MHz outside 5470-5725 MHz

For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Emissions within the restricted bands listed in FCC 47 CFR Part 15.209:

Frequency (MHz)	Field Strength ($\mu\text{V/m}$)	Measurement Distance (m)
0.009 to 0.490	$2400/F(\text{kHz})$	300
0.490 to 1.705	$24000/F(\text{kHz})$	30
1.705 to 30	30	30
30 to 88	100	3
88 to 216	150	3
216 to 960	200	3
Above 960	500	3

Table 451



ISED C RSS-247, Limit Clause 6.2.1.2, 6.2.2.2, 6.2.3.2 and 6.2.4.2 and IISED C RSS-GEN, Limit Clause 8.9

Emissions not falling within the restricted bands listed in IISED C RSS-GEN, Clause 8.10:

For transmitters with operating frequencies in the band 5150-5250 MHz, all emissions outside the band 5150-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p. Any unwanted emissions that fall into the band 5250-5350 MHz shall be attenuated below the channel power by at least 26 dB.

For transmitters with operating frequencies in the bands 5250-5350 MHz and 5470-5725 MHz, all emissions outside the band 5250-5350 MHz and 5470-5725 MHz shall not exceed -27 dBm/MHz e.i.r.p.

Devices operating in the band 5725-5850 MHz shall have e.i.r.p. of unwanted emissions comply with the following:

- a) 27 dBm/MHz at frequencies from the band edges decreasing linearly to 15.6 dBm/MHz at 5 MHz above or below the band edges;
- b) 15.6 dBm/MHz at 5 MHz above or below the band edges decreasing linearly to 10 dBm/MHz at 25 MHz above or below the band edges;
- c) 10 dBm/MHz at 25 MHz above or below the band edges decreasing linearly to -27 dBm/MHz at 75 MHz above or below the band edges; and
- d) -27 dBm/MHz at frequencies more than 75 MHz above or below the band edges.

Emissions not falling within the restricted bands listed in IISED C RSS-GEN, Clause 8.10:

Frequency (MHz)	Field Strength ($\mu\text{V/m}$)
0.009 to 0.490	2400/F(kHz)
0.490 to 1.705	24000/F(kHz)
1.705 to 30	30
30 to 88	100
88 to 216	150
216 to 960	200
Above 960	500

Table 452



2.5.7 Test Location and Test Equipment Used

This test was carried out in EMC Chamber 11.

Instrument	Manufacturer	Type No	TE No	Calibration Period (months)	Calibration Due
Filter (High Pass)	Lorch	SHP7-7000-SR	566	12	6-Jun-2020
Pre-Amplifier	Phase One	PS04-0086	1533	12	8-Feb-2020
Turntable Controller	Inn-Co GmbH	CO 1000	1606	-	TU
Hygrometer	Rotronic	HYGROPALM 1	2338	12	15-Nov-2019
1GHz to 8GHz Low Noise Amplifier	Wright Technologies	APS04-0085	4365	12	25-Oct-2019
Cable (Rx, Km-Km 2m)	Scott Cables	KPS-1501-2000-KPS	4526	6	11-Dec-2019
Double Ridged Waveguide Horn Antenna	ETS-Lindgren	3117	4722	12	5-Mar-2020
Mast Controller	Maturo GmbH	NCD	4810	-	TU
Tilt Antenna Mast	Maturo GmbH	TAM 4.0-P	4811	-	TU
Double Ridge Broadband Horn Antenna	Schwarzbeck	BBHA 9120 B	4848	12	11-Mar-2020
8 - 18 GHz pre amp	Wright Technologies	PS06-0061	4971	12	7-Dec-2019
Band Reject Filter - 5.795GHz	Wainwright	WRCJV10-5725-5755-5835-5865-50SS	5070	12	1-Oct-2019
Band Reject Filter - 5.795 GHz	Wainwright	WRCJV10-5725-5755-5835-5865-50SS	5071	12	1-Oct-2019
Band Reject Filter - 5.22 GHz	Wainwright	WRCJV12-5120-5150-5290-5320-50SS	5072	12	28-Sep-2019
Band Reject Filter - 5.22 GHz	Wainwright	WRCJV12-5120-5150-5290-5320-50SS	5073	12	28-Sep-2019
EMI Test Receiver	Rohde & Schwarz	ESW44	5084	12	12-Sep-2019
8m N-Type RF Cable	Teledyne	PR90-088-8MTR	5093	12	4-Oct-2019
8m N-Type RF Cable	Teledyne	PR90-088-8MTR	5095	12	4-Oct-2019
Cable (18 GHz)	Rosenberger	LU7-071-1000	5102	12	4-Oct-2019
Cable (18 GHz)	Rosenberger	LU7-071-1000	5104	12	5-Oct-2019
Cable (18 GHz)	Rosenberger	LU7-071-1000	5105	12	5-Oct-2019
Cable (18 GHz)	Rosenberger	LU7-071-2000	5107	12	5-Oct-2019
Cable (18 GHz)	Rosenberger	LU7-071-2000	5109	12	5-Oct-2019



Instrument	Manufacturer	Type No	TE No	Calibration Period (months)	Calibration Due
EmX Software	TUV SUD	EmX V.1.4.8.3	5125	-	N/A - Software
1.5m 40GHz RF Cable	Scott Cables	KPS-1501-2000-KPS	5127	6	11-Dec-2019
Screened Room (11)	Rainford	Rainford	5136	36	1-Nov-2021
Mast	Maturo	TAM 4.0-P	5158	-	TU
Mast and Turntable Controller	Maturo	Maturo NCD	5159	-	TU
Turntable	Maturo	TT 15WF	5160	-	TU
Horn Antenna (1-10GHz)	Schwarzbeck	BBHA 9120 B	5215	12	11-Mar-2020
DRG Horn Antenna (7.5-18GHz)	Schwarzbeck	HWRD750	5216	12	11-Mar-2020

Table 453

TU – Traceability Unscheduled



2.6 Restricted Band Edges

2.6.1 Specification Reference

FCC 47 CFR Part 15E, Clause 15.205
ISED RSS-GEN, Clause 8.10

2.6.2 Equipment Under Test and Modification State

A2141, S/N: C02YT00GL51N - Modification State 0

2.6.3 Date of Test

28-June-2019 to 11-October-2019

2.6.4 Test Method

The test was performed in accordance with ANSI C63.10 clause 6.10.5.

Restricted band edge measurements were performed, with the device operating in SISO, MIMO and TxBF set-up's, across the various modes supported by the device.

The measurements displayed within this report, have been limited to those modes which have been shown to be worst case.

Where duty cycle corrections were required for average results, these are included in the result tables, but are not included in the plots.

Further measurements are held on file by TÜV SÜD and are available if required.

2.6.5 Environmental Conditions

Ambient Temperature	21.0 - 23.0 °C
Relative Humidity	45.0 - 62.7 %



2.6.6 Test Results

Main - 20 MHz Bandwidth (SISO)

Mode	Data Rate	Frequency (MHz)	Band Edge Frequency (MHz)	Peak Level (dBμV/m)	Average Level (dBμV/m)
802.11a Core 0	6 Mbps	5180	5150	63.56	45.96
802.11n HT20 Core 0	MCS0	5180	5150	65.27	46.83
802.11a Core 0	6 Mbps	5240	5350	61.05	49.21
802.11n HT20 Core 0	MCS0	5240	5350	62.41	50.43
802.11a Core 0	6 Mbps	5260	5150	52.87	41.61
802.11n HT20 Core 0	MCS0	5260	5150	52.58	41.48
802.11a Core 0	6 Mbps	5320	5350	66.88	50.07
802.11n HT20 Core 0	MCS0	5320	5350	68.97	48.09
802.11a Core 0	6 Mbps	5500	5460	57.90	46.75
802.11n HT20 Core 0	MCS0	5500	5460	57.53	46.65

Table 454

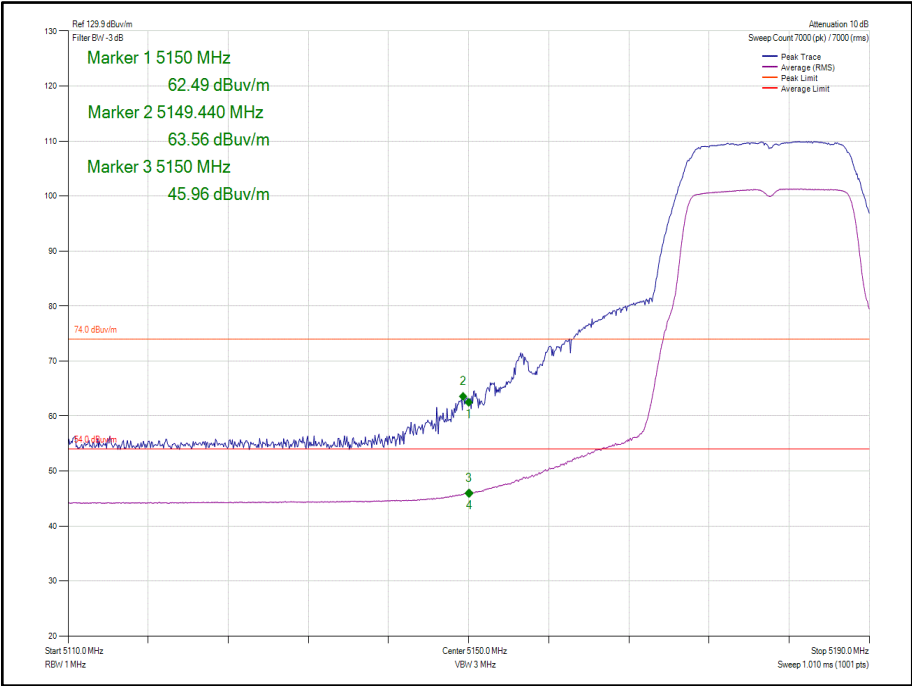


Figure 1032 - 802.11a Core 0 - 5180 MHz
Band Edge Frequency 5150 MHz

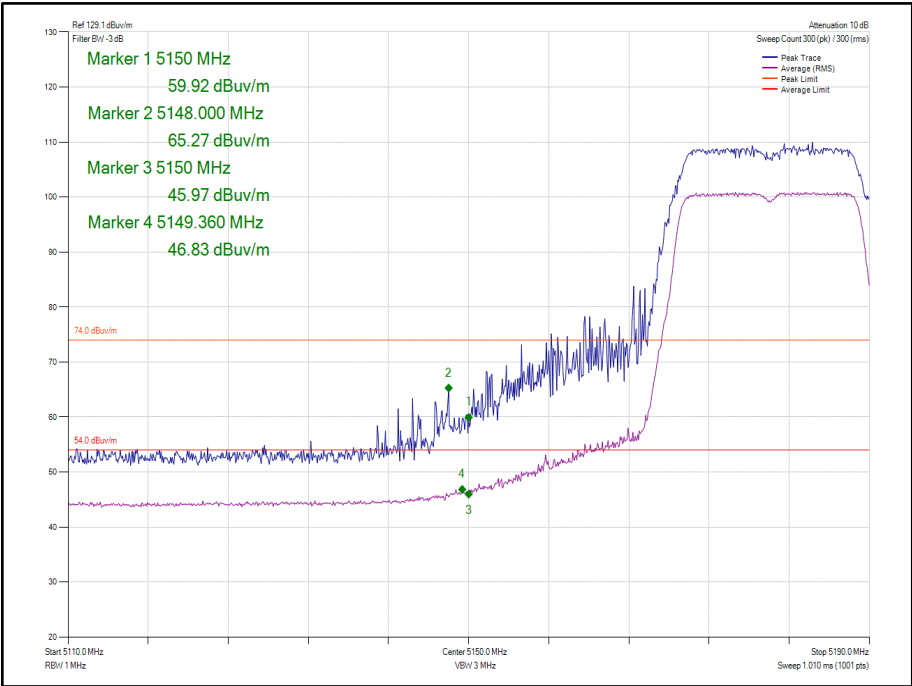


Figure 1033 - 802.11n HT20 Core 0 - 5180 MHz
Band Edge Frequency 5150 MHz

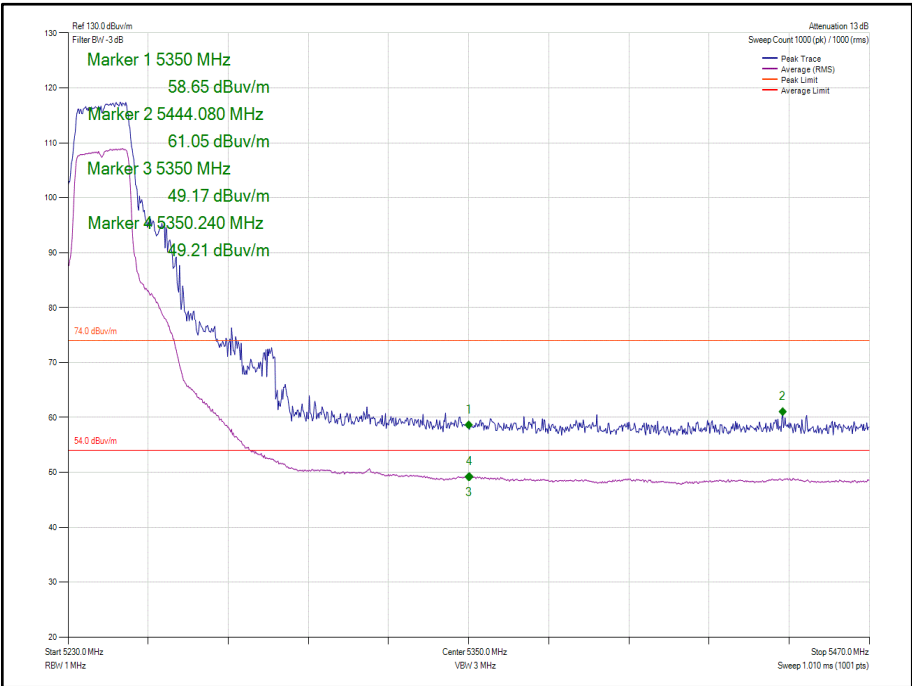


Figure 1034 - 802.11a Core 0 - 5240 MHz
Band Edge Frequency 5350 MHz

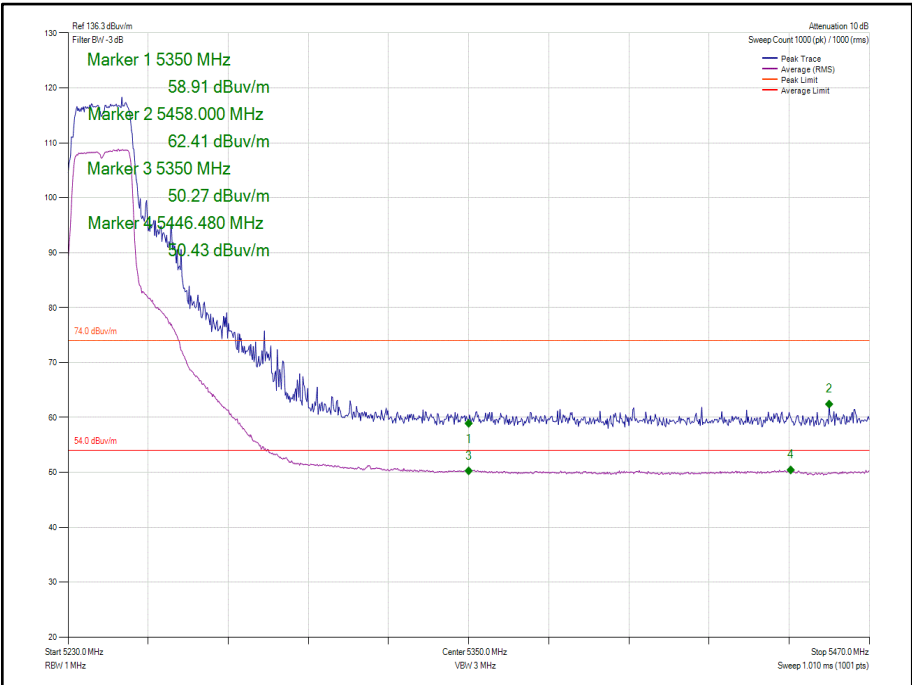


Figure 1035 - 802.11n HT20 Core 0 - 5240 MHz
Band Edge Frequency 5350 MHz

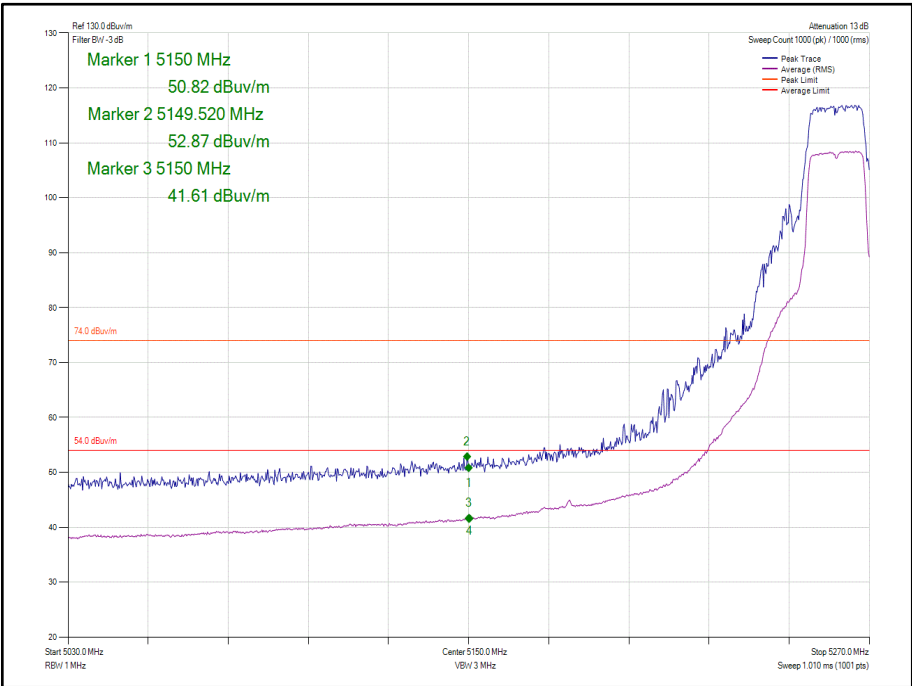


Figure 1036 - 802.11a Core 0 - 5260 MHz
Band Edge Frequency 5150 MHz

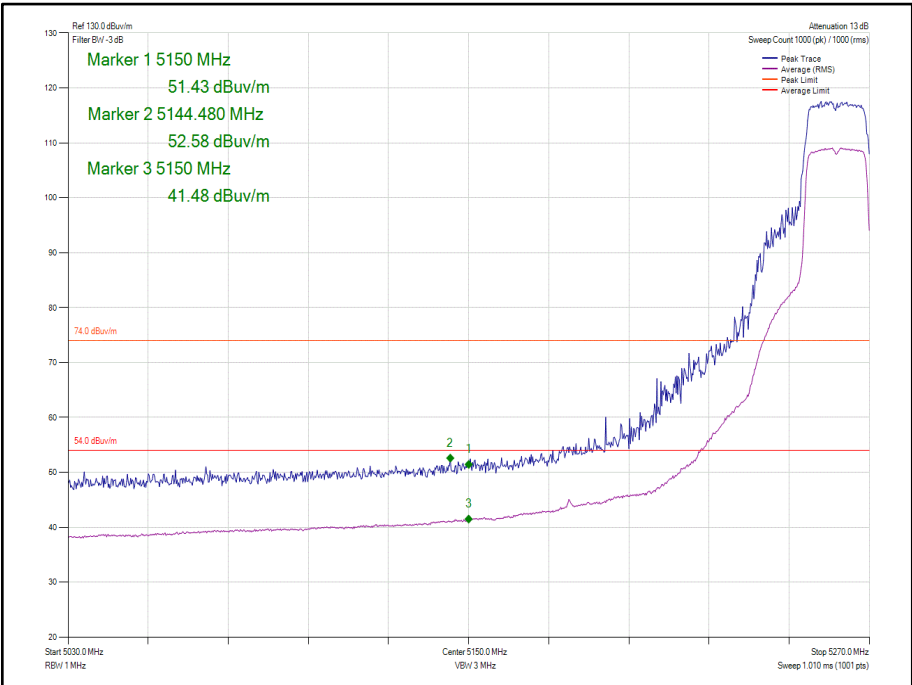


Figure 1037 - 802.11n HT20 Core 0 - 5260 MHz
Band Edge Frequency 5150 MHz

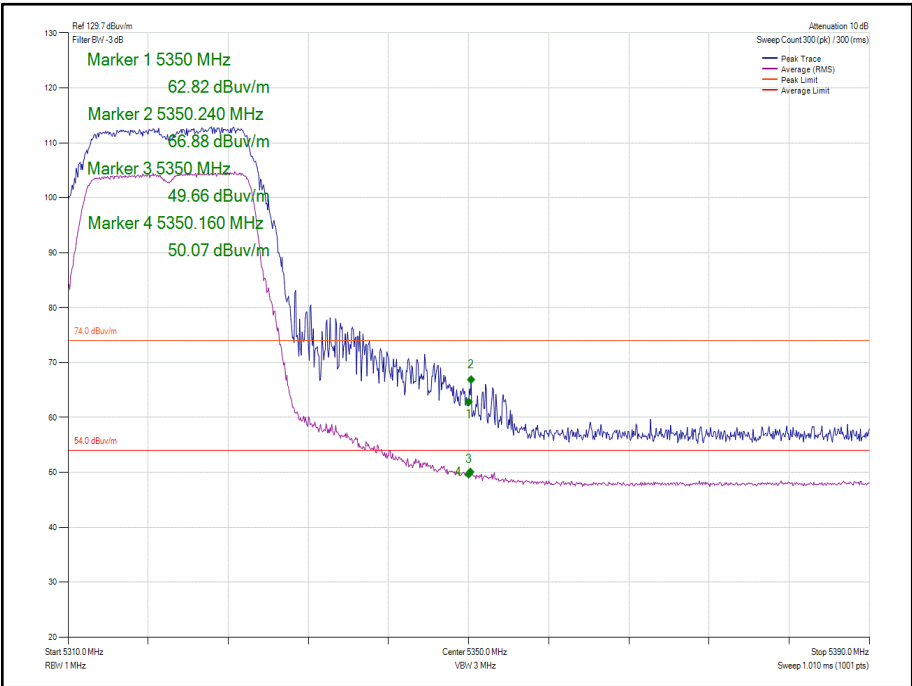


Figure 1038 - 802.11a Core 0 - 5320 MHz
Band Edge Frequency 5350 MHz

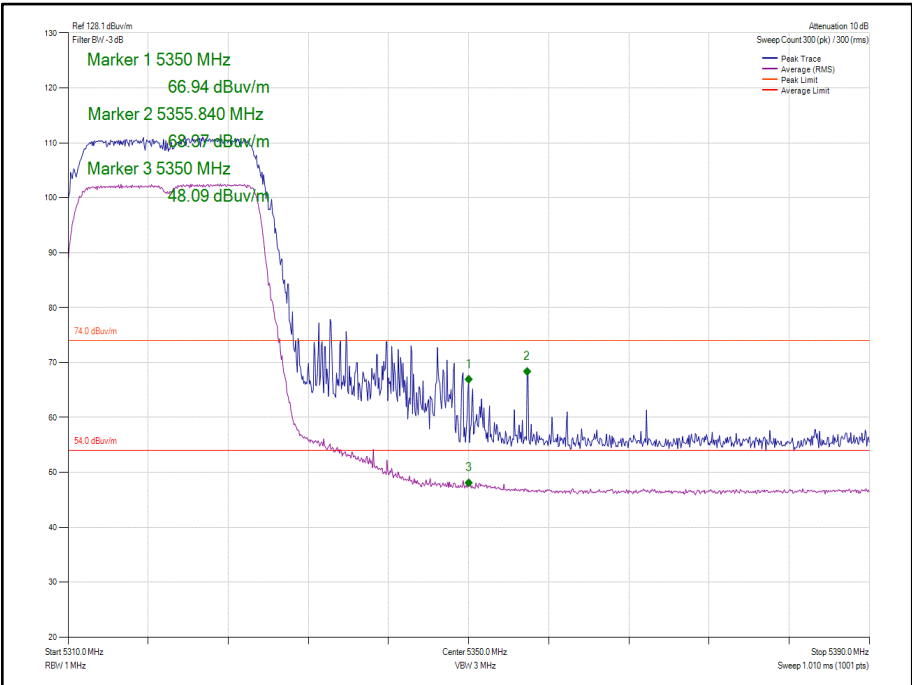


Figure 1039 - 802.11n HT20 Core 0 - 5320 MHz
Band Edge Frequency 5350 MHz

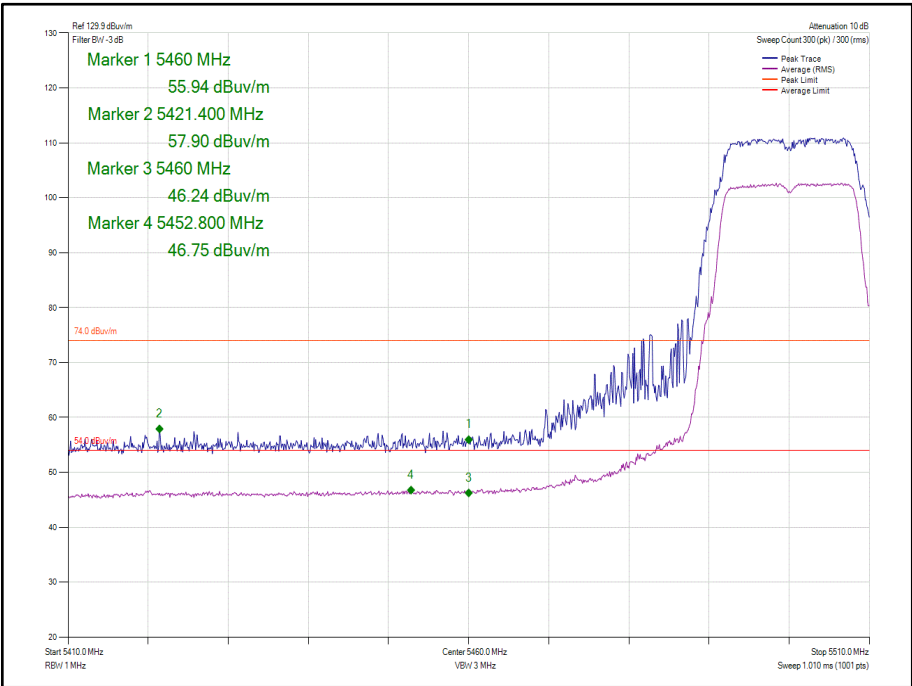


Figure 1040 - 802.11a Core 0 - 5500 MHz
Band Edge Frequency 5460 MHz

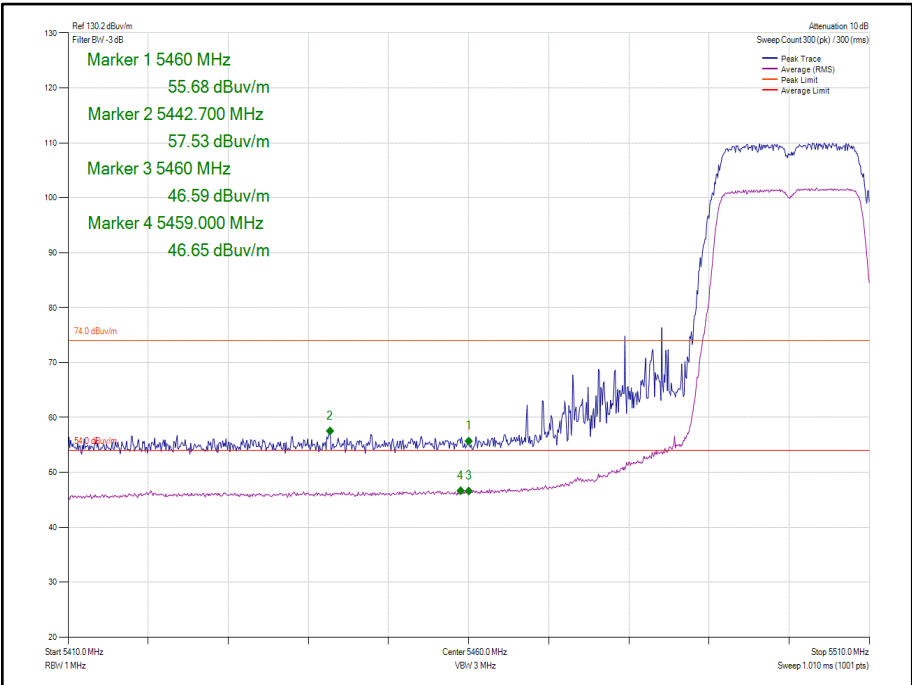


Figure 1041 - 802.11n HT20 Core 0 - 5500 MHz
Band Edge Frequency 5460 MHz



Main - 20 MHz Bandwidth (2TX MIMO)

Mode	Data Rate	Frequency (MHz)	Band Edge Frequency (MHz)	Peak Level (dBμV/m)	Average Level (dBμV/m)
802.11n HT20 CDD Cores 0-1	MCS0	5180	5150	69.15	47.59
802.11n HT20 SDM Cores 0-1	MCS0	5180	5150	69.11	48.71
802.11ac VHT20 TxBF Cores 0-1	MCS0	5180	5150	59.55	45.70
802.11n HT20 CDD Cores 0-1	MCS0	5240	5350	57.68	46.10
802.11n HT20 SDM Cores 0-1	MCS0	5240	5350	59.99	48.22
802.11ac VHT20 TxBF Cores 0-1	MCS0	5240	5350	57.05	45.91
802.11n HT20 CDD Cores 0-1	MCS0	5260	5150	51.24	40.13
802.11n HT20 SDM Cores 0-1	MCS0	5260	5150	52.26	41.59
802.11ac VHT20 TxBF Cores 0-1	MCS0	5260	5150	50.30	39.36
802.11n HT20 CDD Cores 0-1	MCS0	5320	5350	66.68	48.08
802.11n HT20 SDM Cores 0-1	MCS0	5320	5350	68.86	46.78
802.11ac VHT20 TxBF Cores 0-1	MCS0	5320	5350	58.46	47.62
802.11n HT20 CDD Cores 0-1	MCS0	5500	5460	57.69	46.96
802.11n HT20 SDM Cores 0-1	MCS0	5500	5460	58.85	48.00
802.11ac VHT20 TxBF Cores 0-1	MCS0	5500	5460	57.84	46.65

Table 455

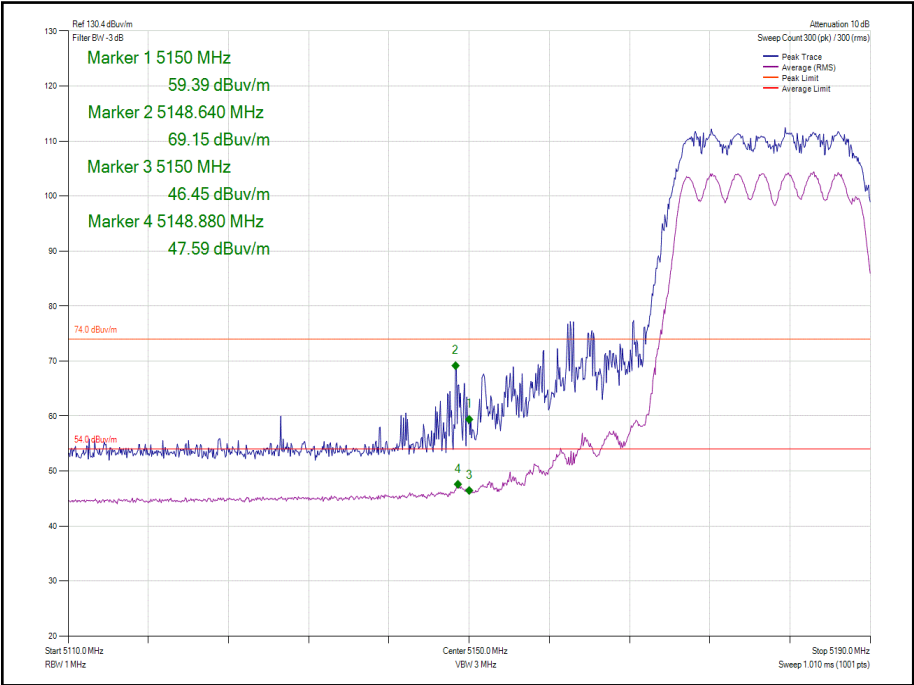


Figure 1042 - 802.11n HT20 CDD Cores 0-1 - 5180 MHz
Band Edge Frequency 5150 MHz

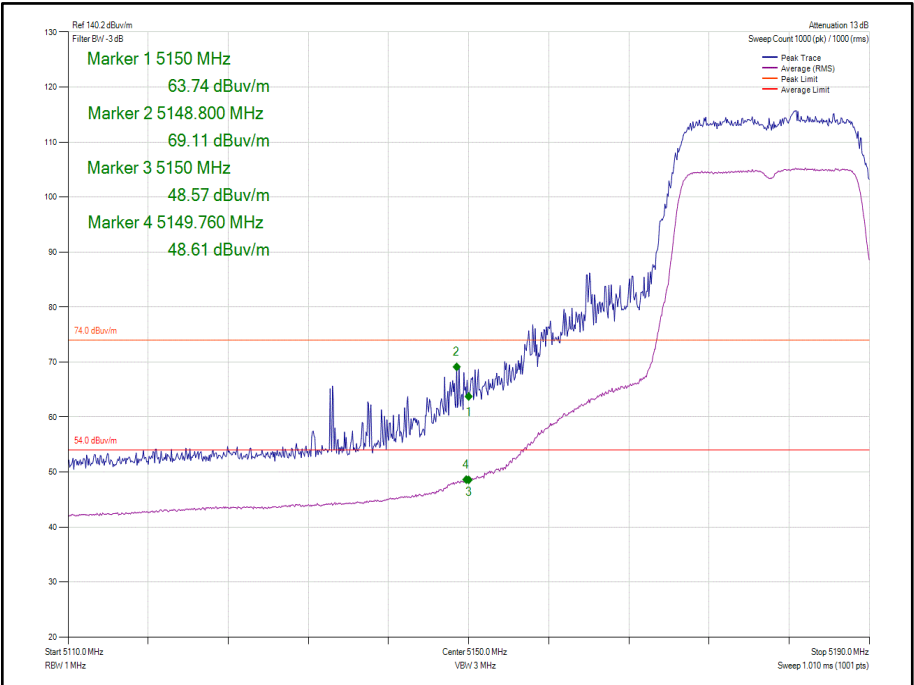
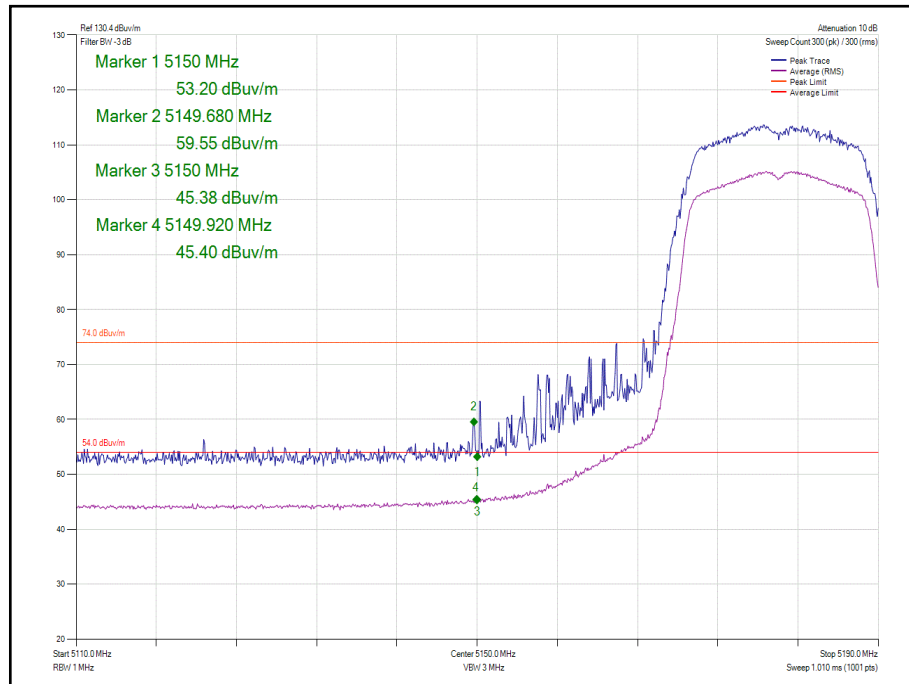
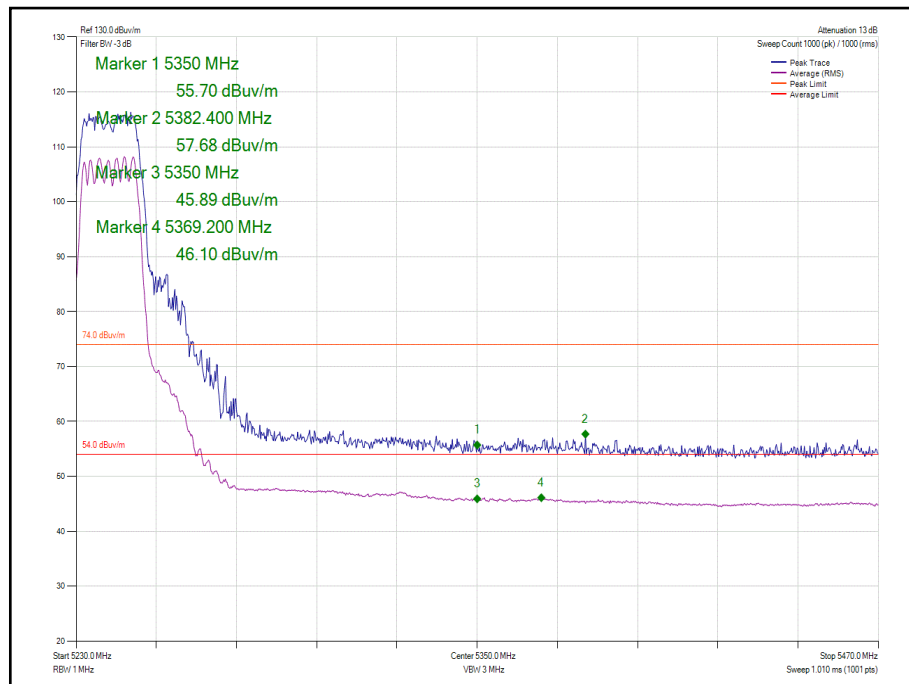


Figure 1043 - 802.11n HT20 SDM Cores 0-1 - 5180 MHz
Band Edge Frequency 5150 MHz



**Figure 1044 - 802.11ac VHT20 TxBF Cores 0-1 - 5180 MHz
 Band Edge Frequency 5150 MHz**



**Figure 1045 - 802.11n HT20 CDD Cores 0-1 - 5240 MHz
 Band Edge Frequency 5350 MHz**

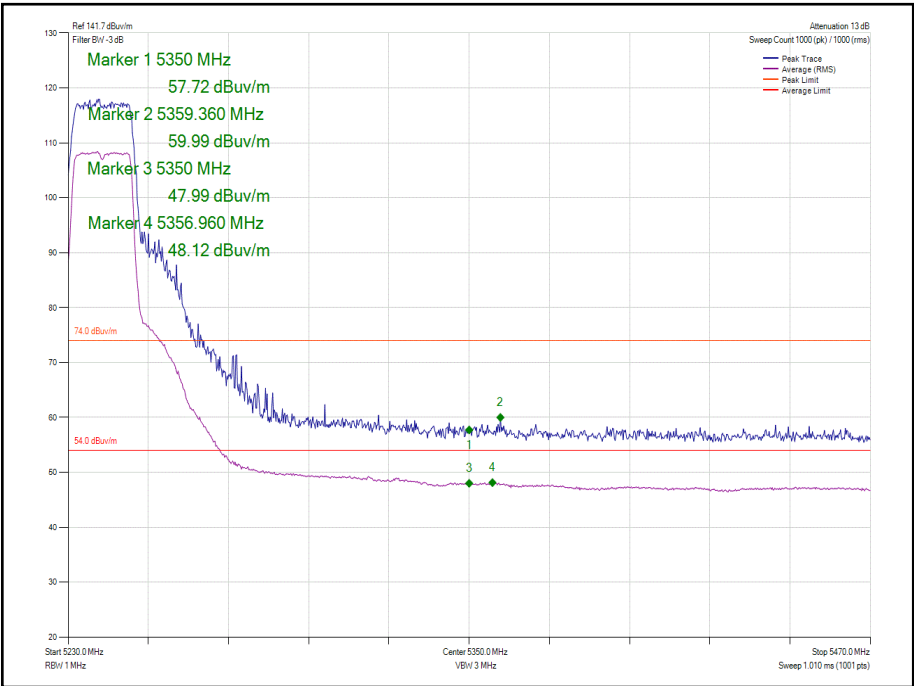


Figure 1046 - 802.11n HT20 SDM Cores 0-1 - 5240 MHz
Band Edge Frequency 5350 MHz

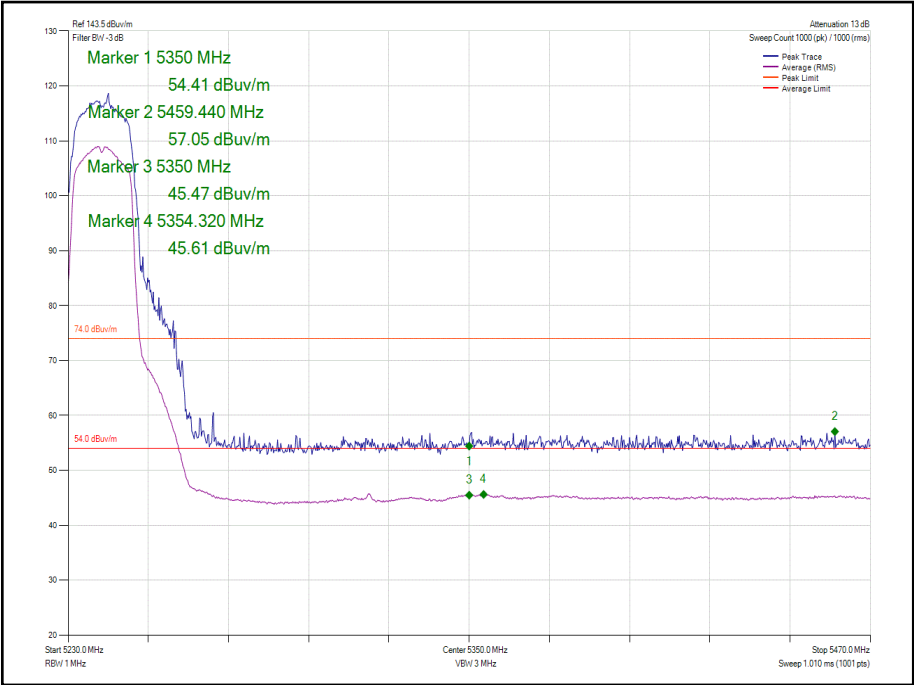


Figure 1047 - 802.11ac VHT20 TxBF Cores 0-1 - 5240 MHz
Band Edge Frequency 5350 MHz

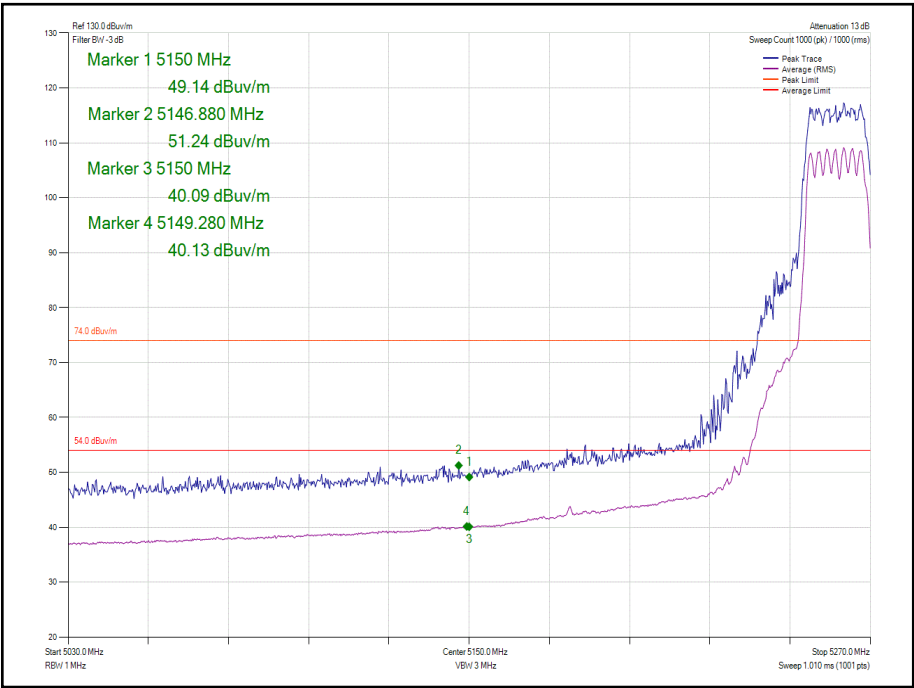


Figure 1048 - 802.11n HT20 CDD Cores 0-1 - 5260 MHz
Band Edge Frequency 5150 MHz

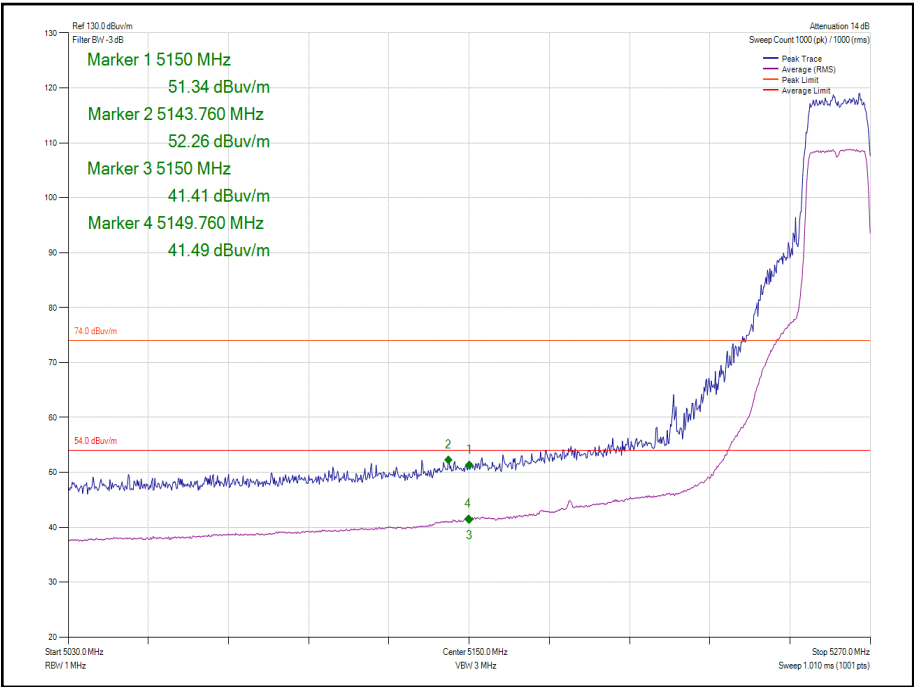


Figure 1049 - 802.11n HT20 SDM Cores 0-1 - 5260 MHz
Band Edge Frequency 5150 MHz

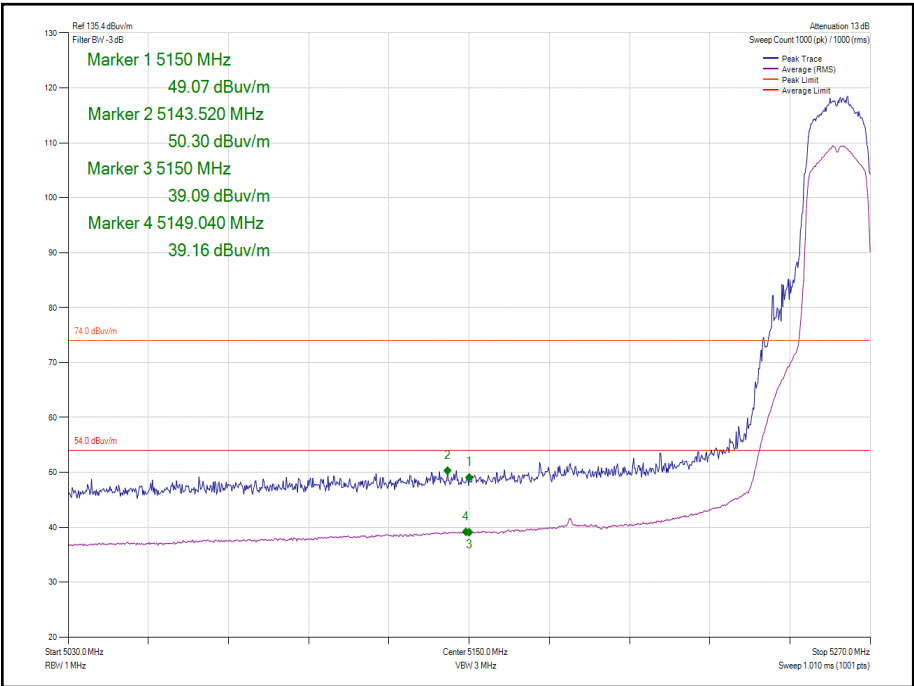


Figure 1050 - 802.11ac VHT20 TxBF Cores 0-1 - 5260 MHz
Band Edge Frequency 5150 MHz

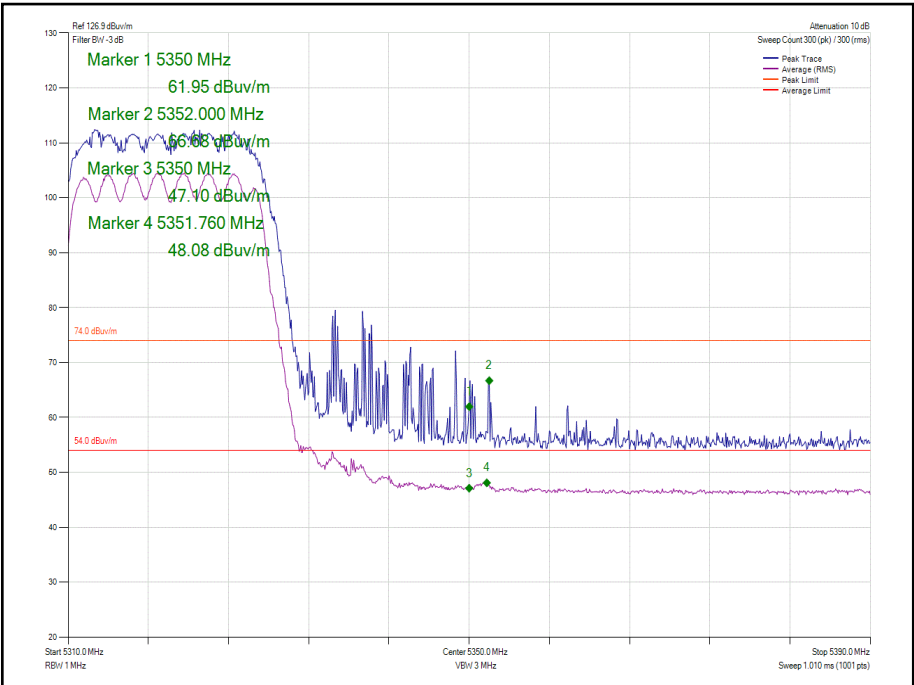


Figure 1051 - 802.11n HT20 CDD Cores 0-1 - 5320 MHz
Band Edge Frequency 5350 MHz

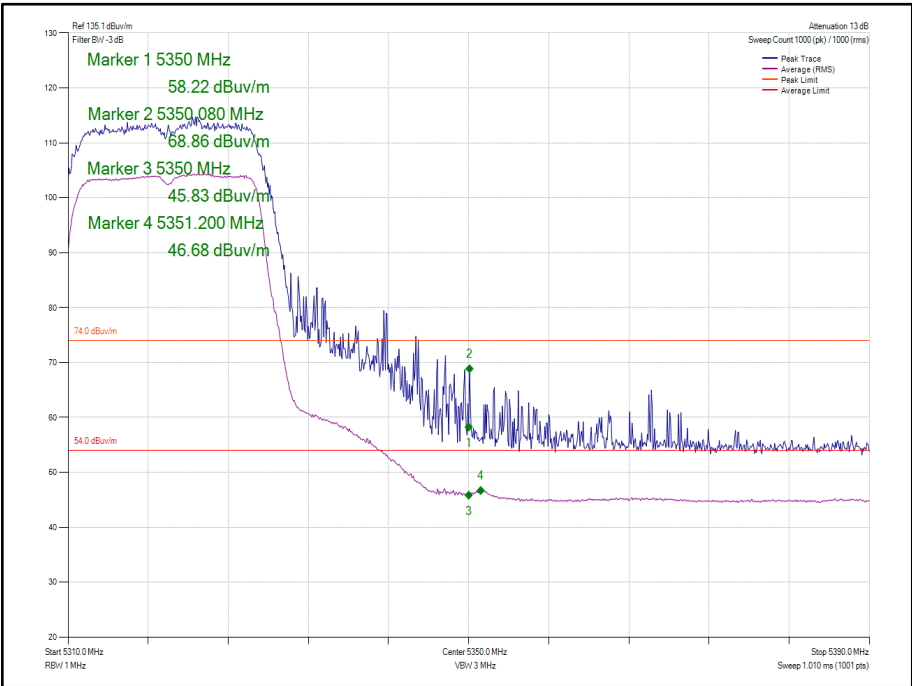


Figure 1052 - 802.11n HT20 SDM Cores 0-1 - 5320 MHz
Band Edge Frequency 5350 MHz

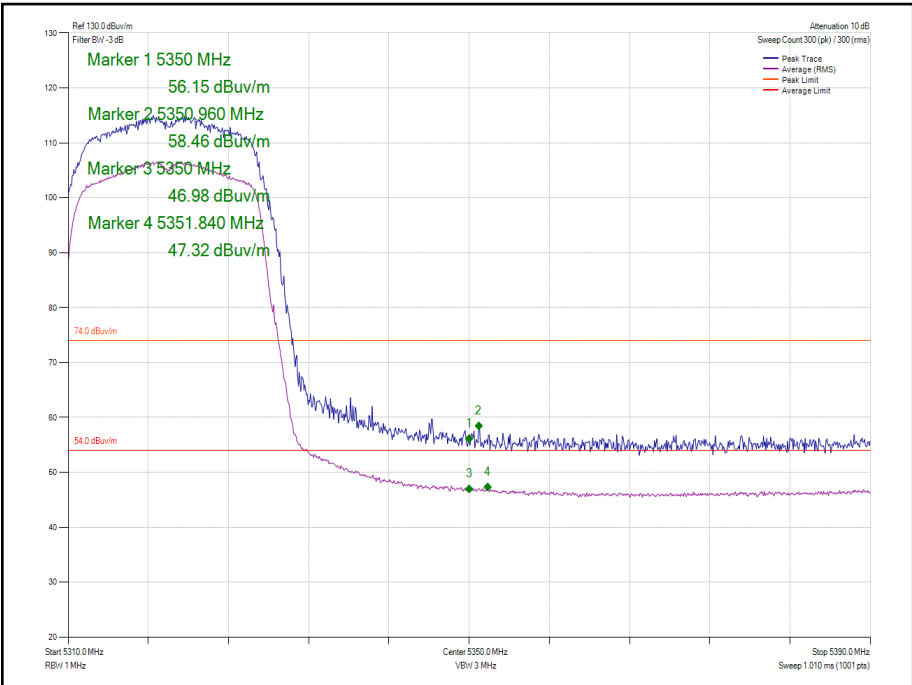


Figure 1053 - 802.11ac VHT20 TxBF Cores 0-1 - 5320 MHz
Band Edge Frequency 5350 MHz

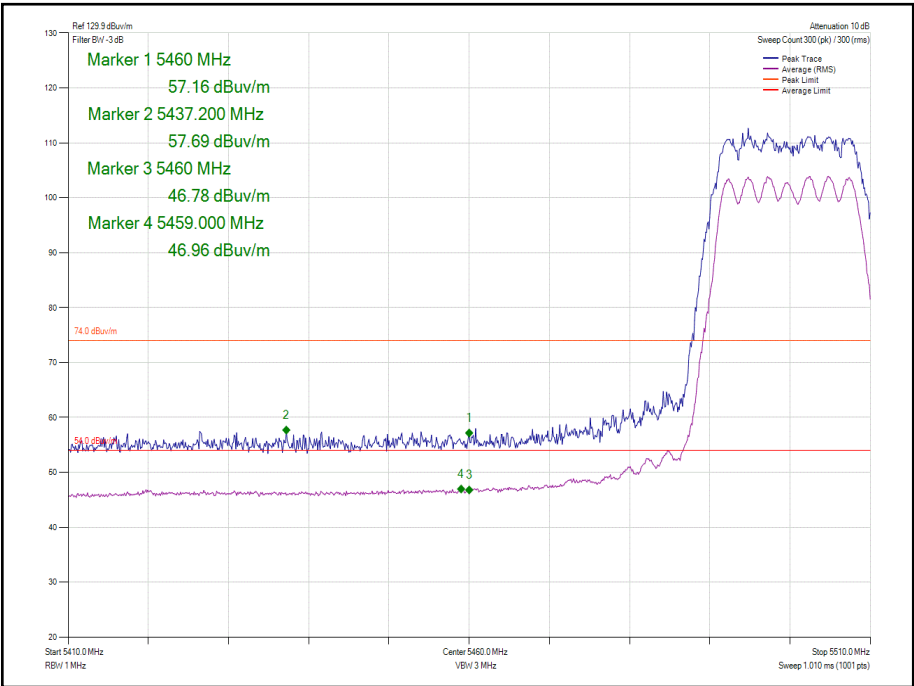


Figure 1054 - 802.11n HT20 CDD Cores 0-1 - 5500 MHz
Band Edge Frequency 5460 MHz

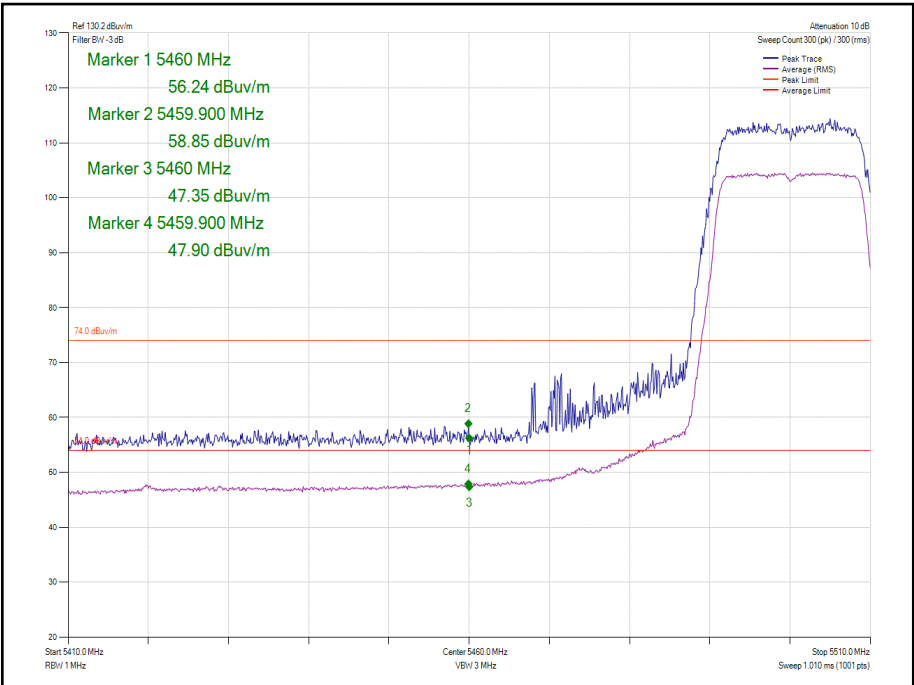


Figure 1055 - 802.11n HT20 SDM Cores 0-1 - 5500 MHz
Band Edge Frequency 5460 MHz

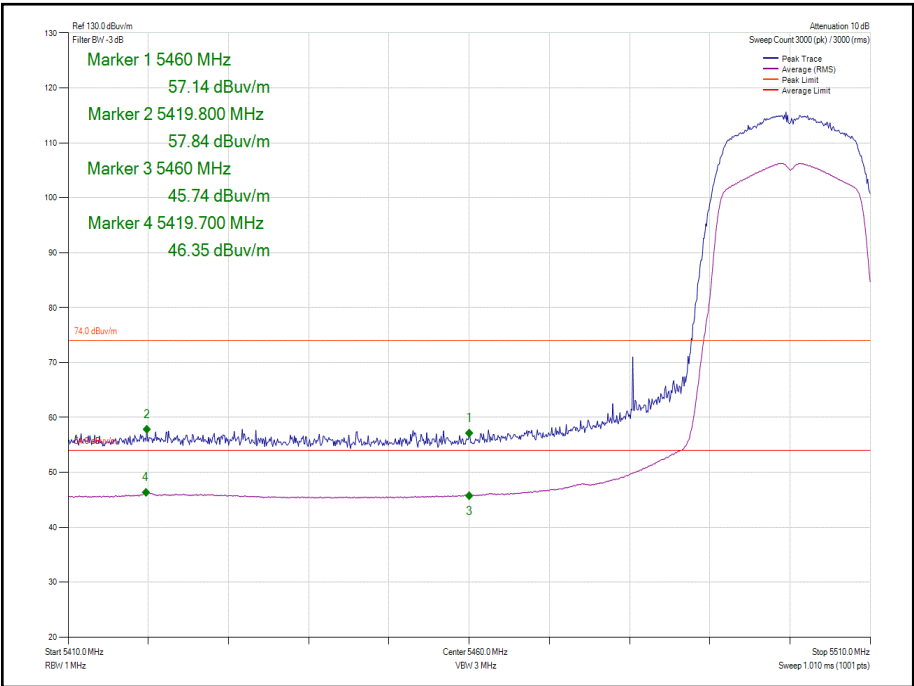


Figure 1056 - 802.11ac VHT20 TxBF Cores 0-1 - 5500 MHz
Band Edge Frequency 5460 MHz



Main - 20 MHz Bandwidth (3TX MIMO)

Mode	Data Rate	Frequency (MHz)	Band Edge Frequency (MHz)	Peak Level (dBμV/m)	Average Level (dBμV/m)
802.11n HT20 CDD Cores 0-1-2	MCS0	5180	5150	69.32	46.28
802.11n HT20 SDM Cores 0-1-2	MCS0	5180	5150	66.04	46.35
802.11ac VHT20 TxBF Cores 0-1-2	MCS0	5180	5150	53.48	42.31
802.11n HT20 CDD Cores 0-1-2	MCS0	5240	5350	58.36	47.48
802.11n HT20 SDM Cores 0-1-2	MCS0	5240	5350	58.73	47.58
802.11ac VHT20 TxBF Cores 0-1-2	MCS0	5240	5350	56.71	45.78
802.11n HT20 CDD Cores 0-1-2	MCS0	5260	5150	52.24	41.55
802.11n HT20 SDM Cores 0-1-2	MCS0	5260	5150	51.70	41.33
802.11ac VHT20 TxBF Cores 0-1-2	MCS0	5260	5150	51.42	40.58
802.11n HT20 CDD Cores 0-1-2	MCS0	5320	5350	67.67	47.27
802.11n HT20 SDM Cores 0-1-2	MCS0	5320	5350	70.14	48.16
802.11ac VHT20 TxBF Cores 0-1-2	MCS0	5320	5350	57.33	44.44
802.11n HT20 CDD Cores 0-1-2	MCS0	5500	5460	56.25	45.86
802.11n HT20 SDM Cores 0-1-2	MCS0	5500	5460	58.13	47.02
802.11ac VHT20 TxBF Cores 0-1-2	MCS0	5500	5460	59.68	48.81

Table 456

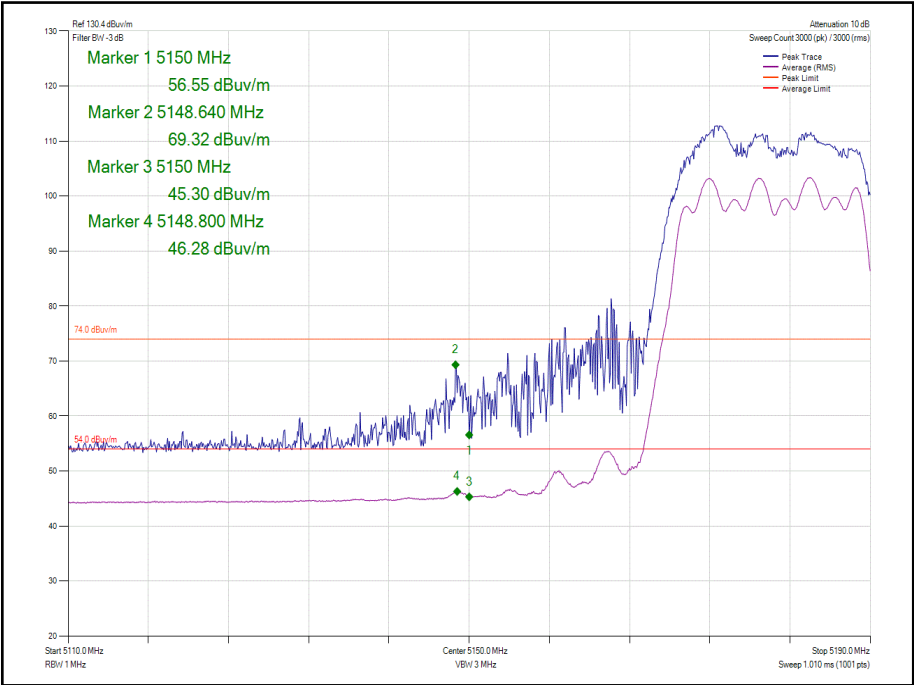


Figure 1057 - 802.11n HT20 CDD Cores 0-1-2 - 5180 MHz
Band Edge Frequency 5150 MHz

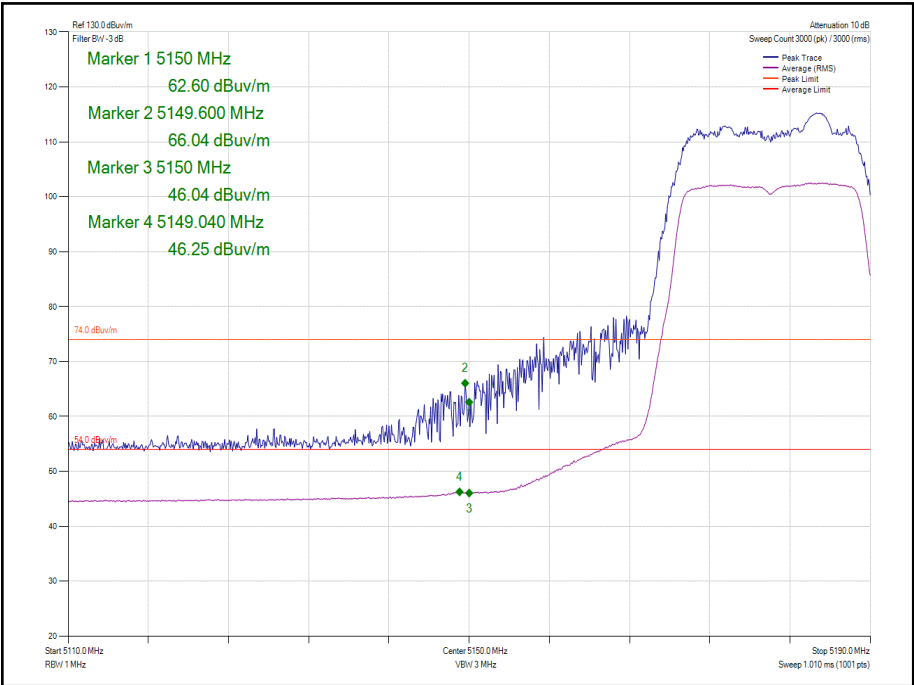
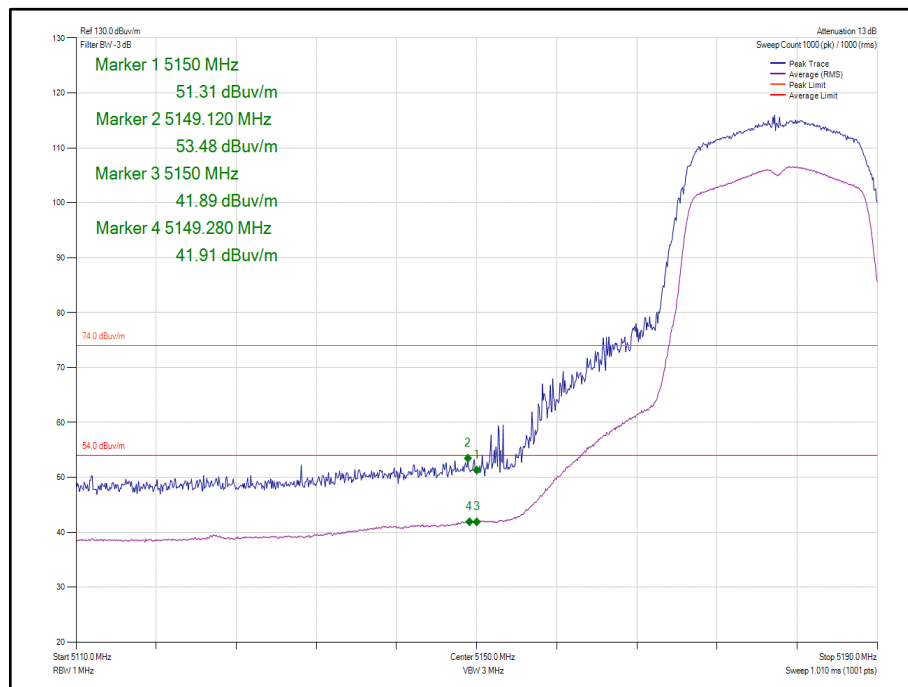
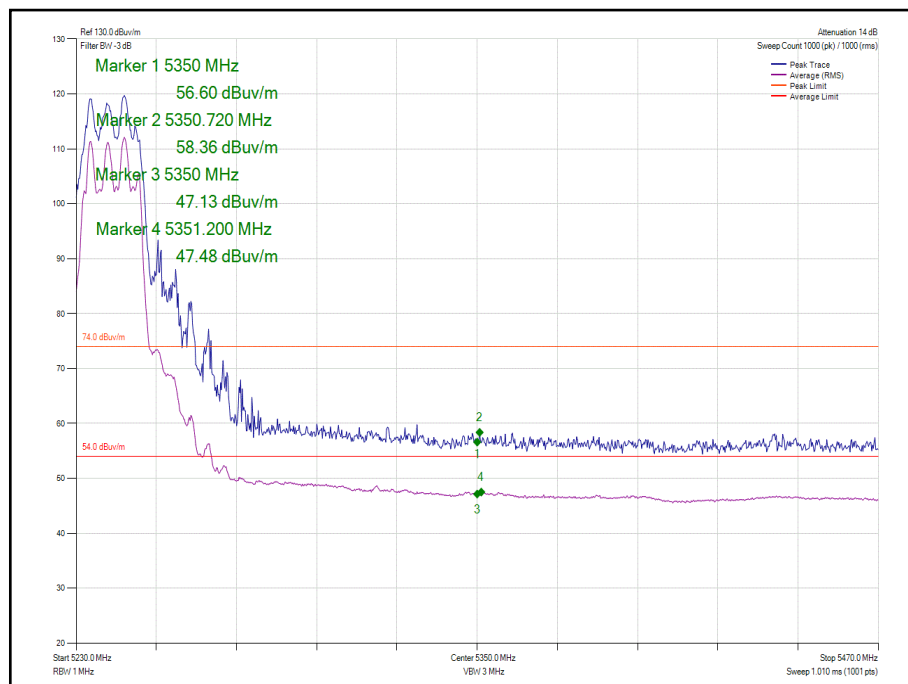


Figure 1058 - 802.11n HT20 SDM Cores 0-1-2 - 5180 MHz
Band Edge Frequency 5150 MHz



**Figure 1059 - 802.11ac VHT20 Tx BF Cores 0-1-2 - 5180 MHz
 Band Edge Frequency 5150 MHz**



**Figure 1060 - 802.11n HT20 CDD Cores 0-1-2 - 5240 MHz
 Band Edge Frequency 5350 MHz**

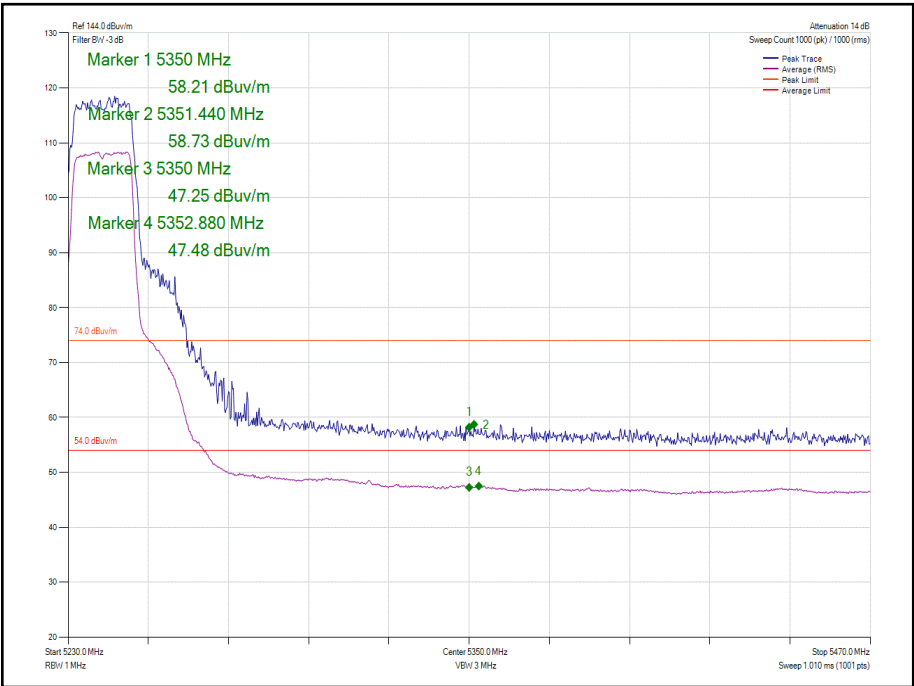


Figure 1061 - 802.11n HT20 SDM Cores 0-1-2 - 5240 MHz
Band Edge Frequency 5350 MHz

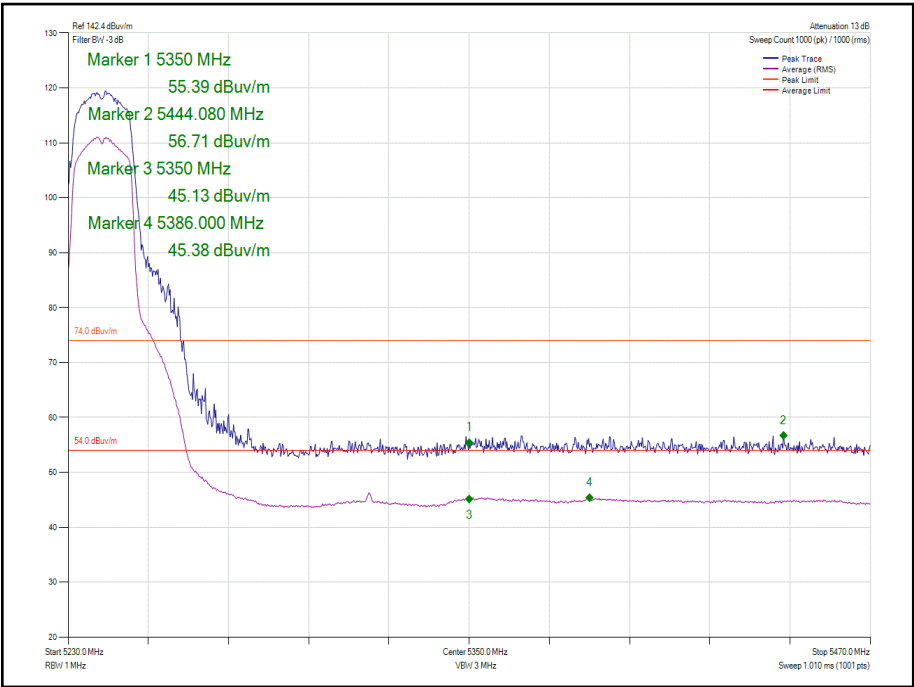


Figure 1062 > - 802.11ac VHT20 TxBF Cores 0-1-2 - 5240 MHz
Band Edge Frequency 5460 MHz

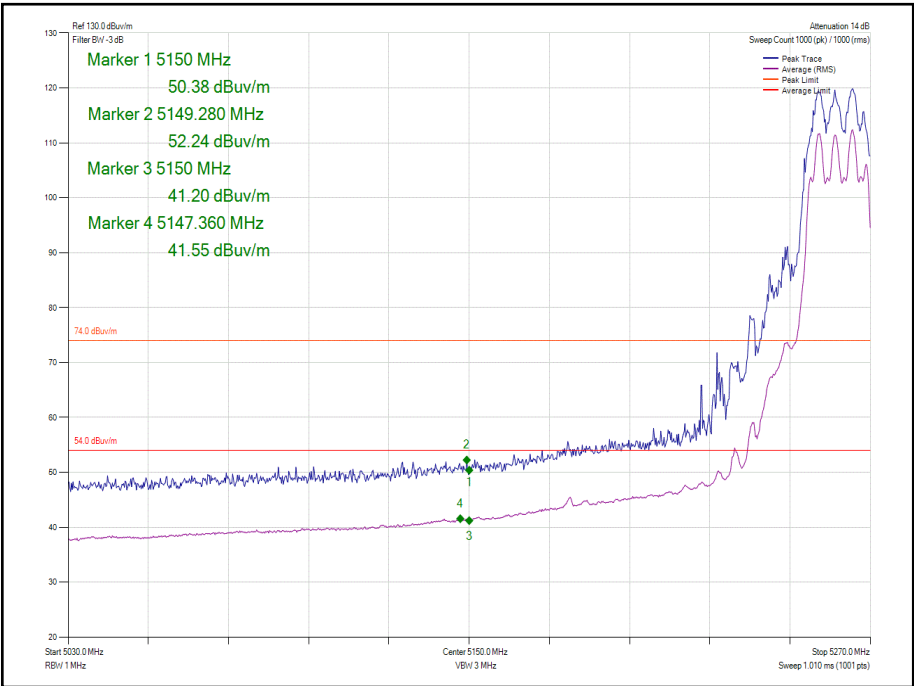


Figure 1063 - 802.11n HT20 CDD Cores 0-1-2 - 5260 MHz
Band Edge Frequency 5150 MHz

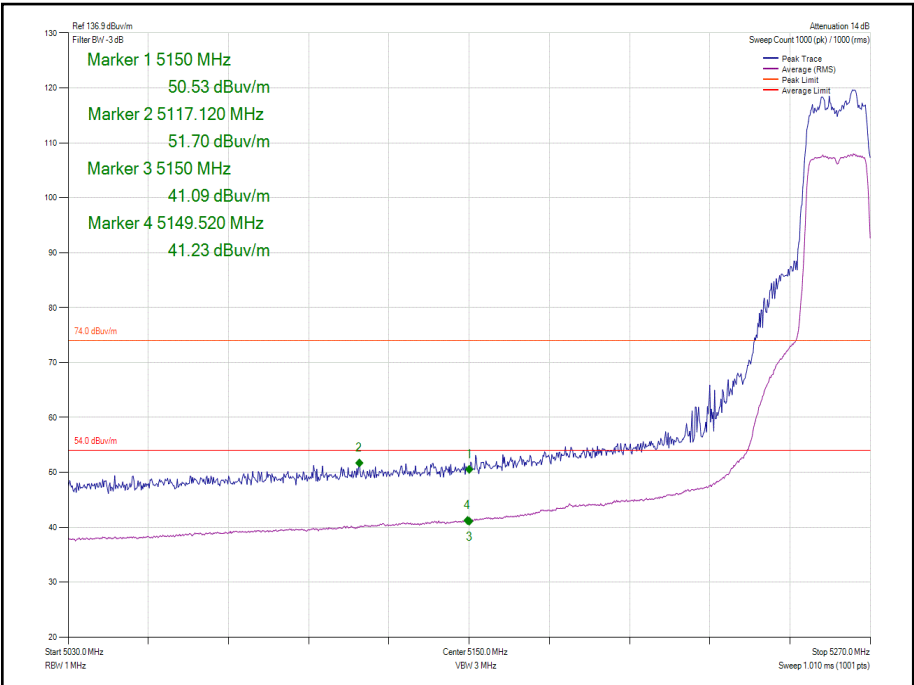


Figure 1064 - 802.11n HT20 SDM Cores 0-1-2 - 5260 MHz
Band Edge Frequency 5150 MHz

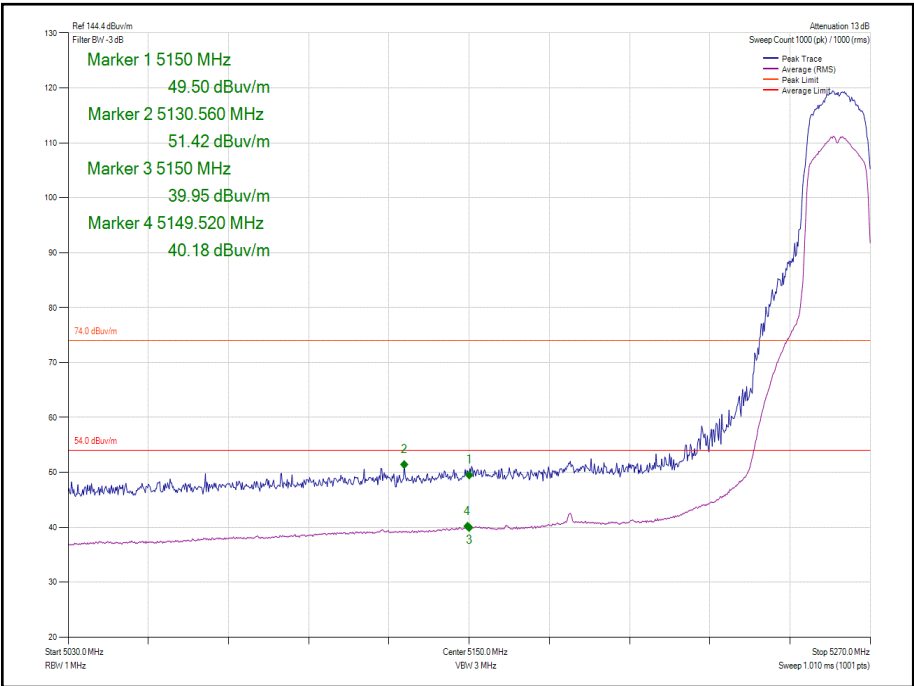


Figure 1065 - 802.11ac VHT20 TxBF Cores 0-1-2 - 5260 MHz
Band Edge Frequency 5150 MHz

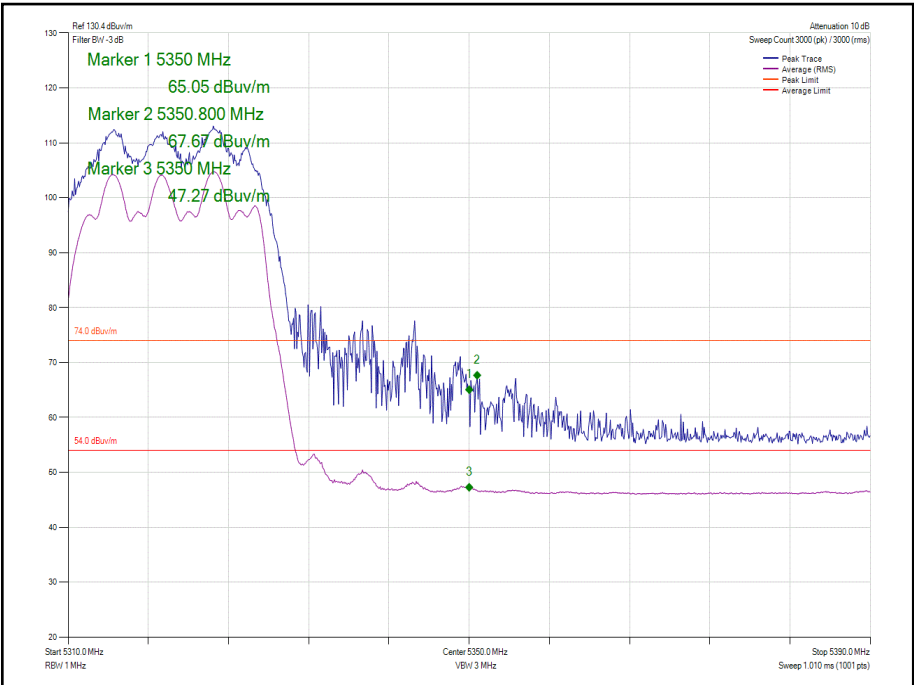


Figure 1066 - 802.11n HT20 CDD Cores 0-1-2 - 5320 MHz
Band Edge Frequency 5350 MHz

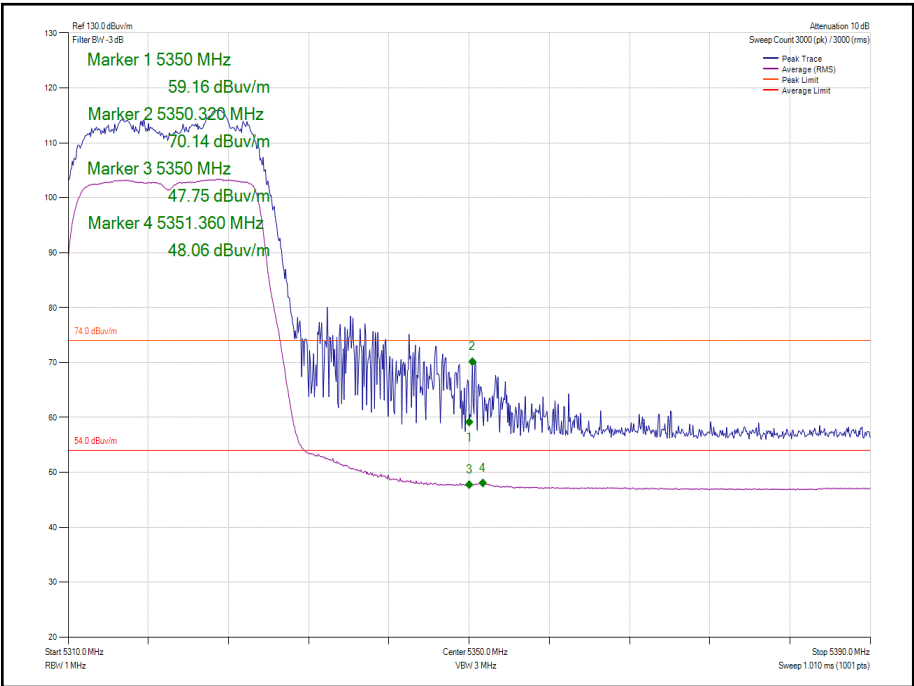


Figure 1067 - 802.11n HT20 SDM Cores 0-1-2 - 5320 MHz
Band Edge Frequency 5350 MHz

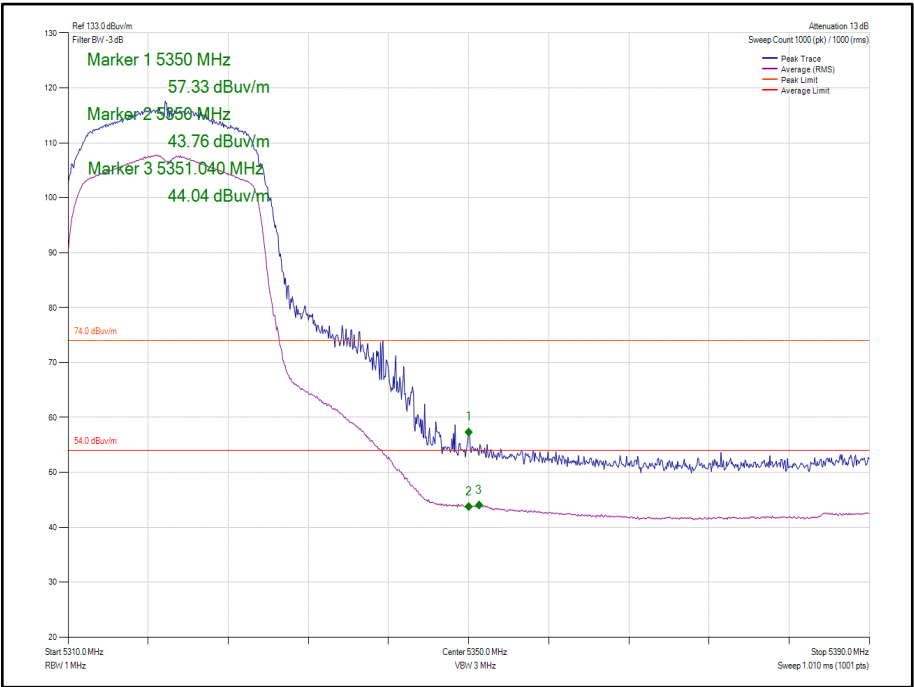


Figure 1068 - 802.11ac VHT20 TxBF Cores 0-1-2 - 5320 MHz
Band Edge Frequency 5350 MHz

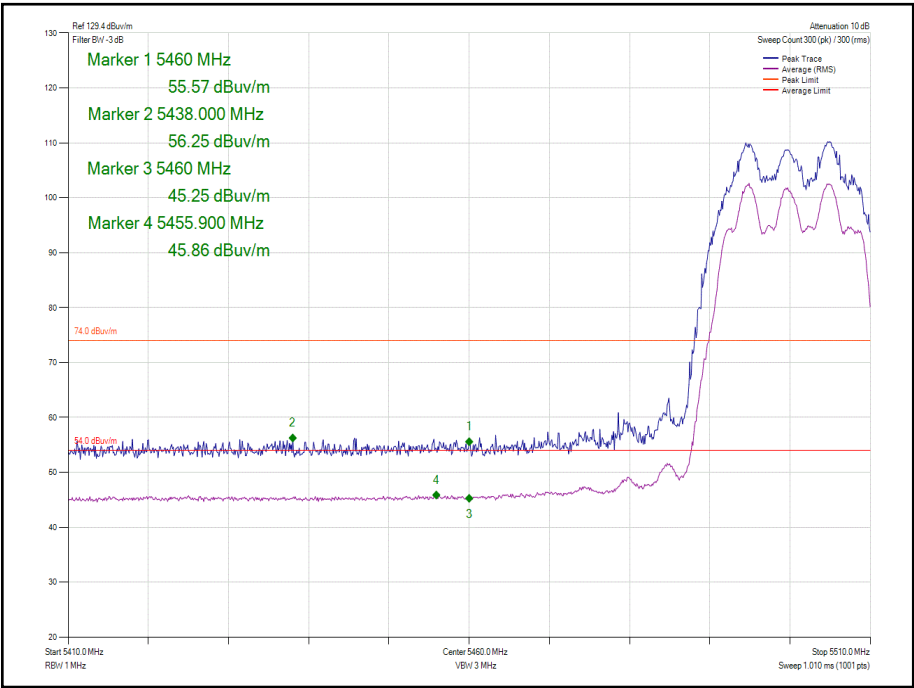


Figure 1069 - 802.11n HT20 CDD Cores 0-1-2 - 5500 MHz
Band Edge Frequency 5460 MHz

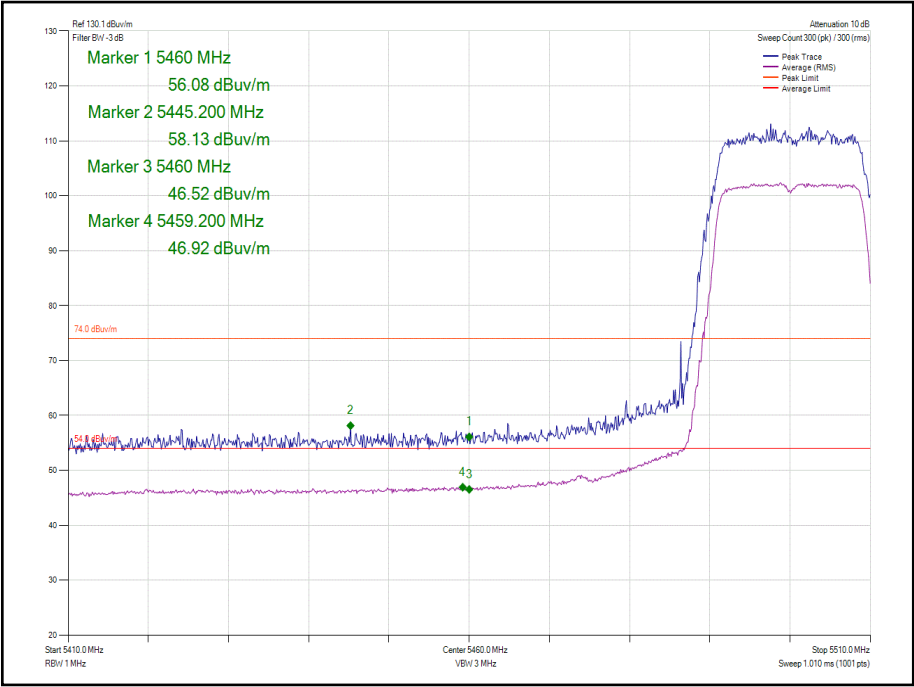


Figure 1070 - 802.11n HT20 SDM Cores 0-1-2 - 5500 MHz
Band Edge Frequency 5460 MHz

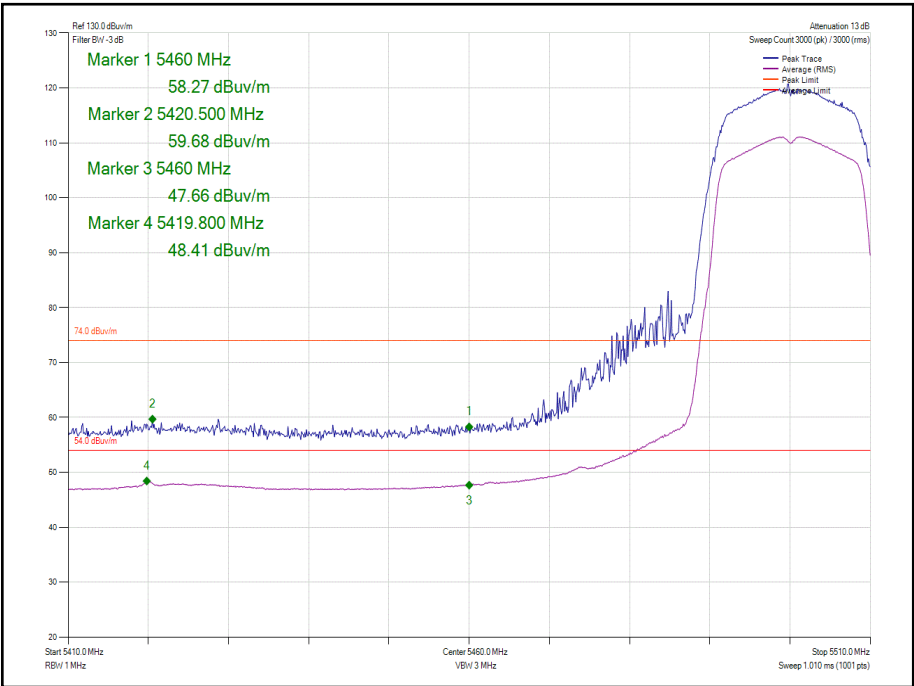


Figure 1071 - 802.11ac VHT20 TxBF Cores 0-1-2 - 5500 MHz
Band Edge Frequency 5460 MHz



Main - 40 MHz Bandwidth (SISO)

Mode	Data Rate	Frequency (MHz)	Band Edge Frequency (MHz)	Peak Level (dBµV/m)	Average Level (dBµV/m)
802.11n HT40 Core 0	MCS0	5190	5150	69.24	48.92
802.11n HT40 Core 0	MCS0	5230	5350	59.03	47.92
802.11n HT40 Core 0	MCS0	5270	5150	55.49	44.69
802.11n HT40 Core 0	MCS0	5310	5350	66.17	49.64
802.11n HT40 Core 0	MCS0	5510	5460	62.82	48.38

Table 457

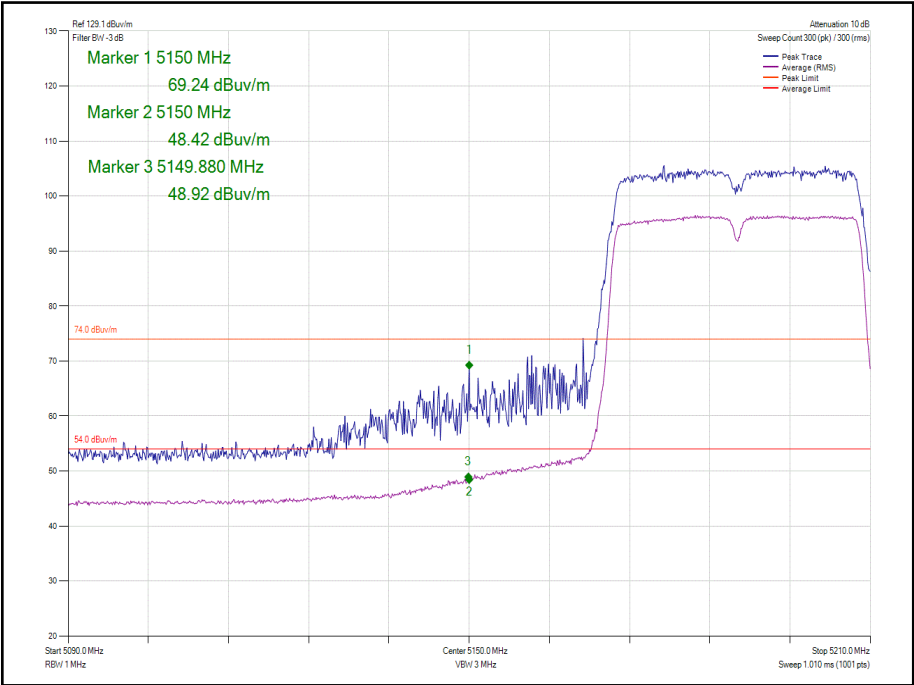


Figure 1072 - 802.11n HT40 Core 0 - 5190 MHz
Band Edge Frequency 5150 MHz

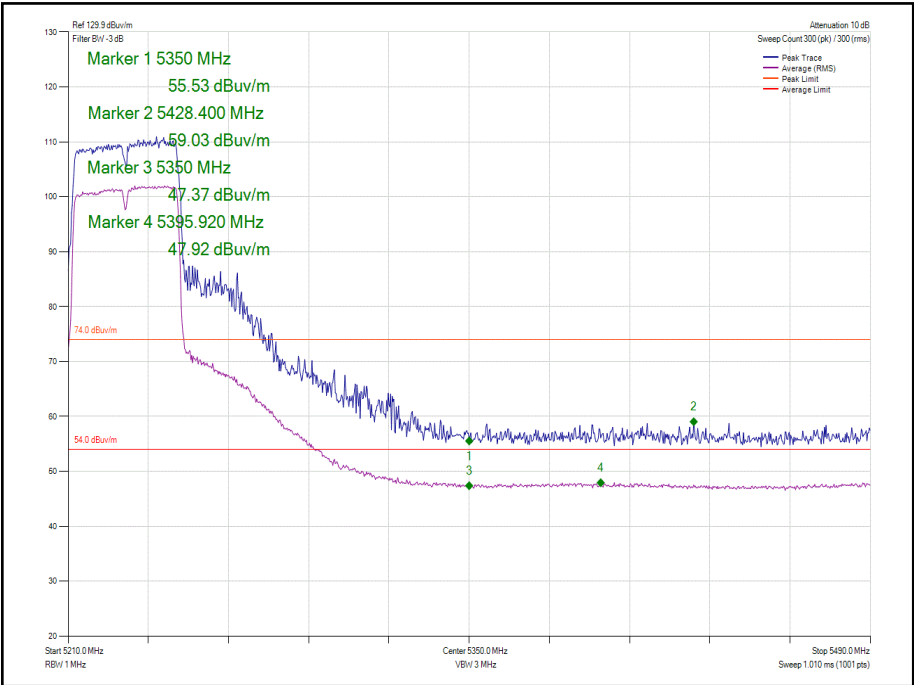


Figure 1073 - 802.11n HT40 Core 0 - 5230 MHz
Band Edge Frequency 5350 MHz

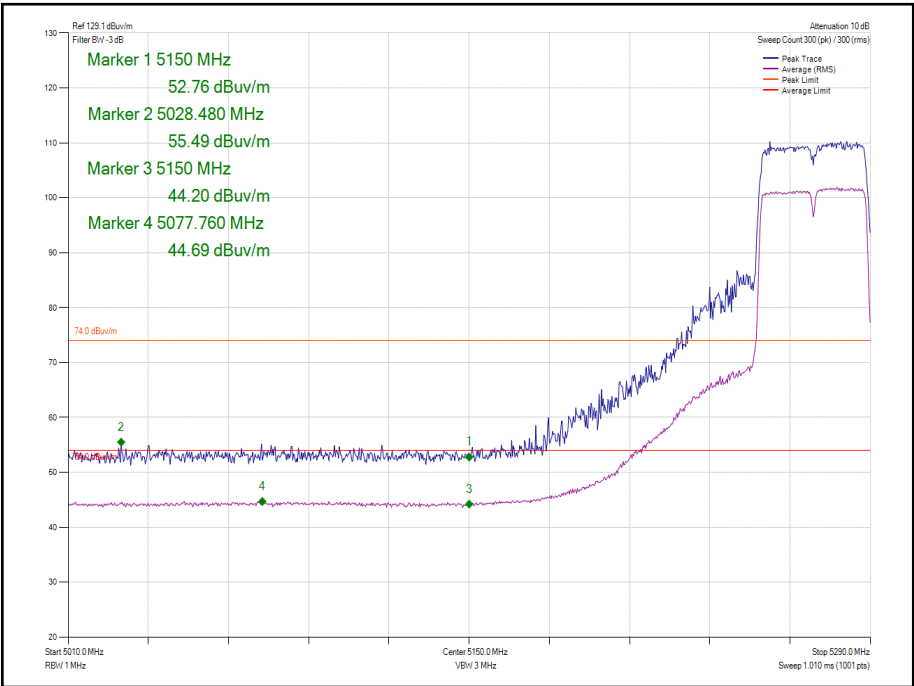


Figure 1074 - 802.11n HT40 Core 0 - 5270 MHz
Band Edge Frequency 5150 MHz

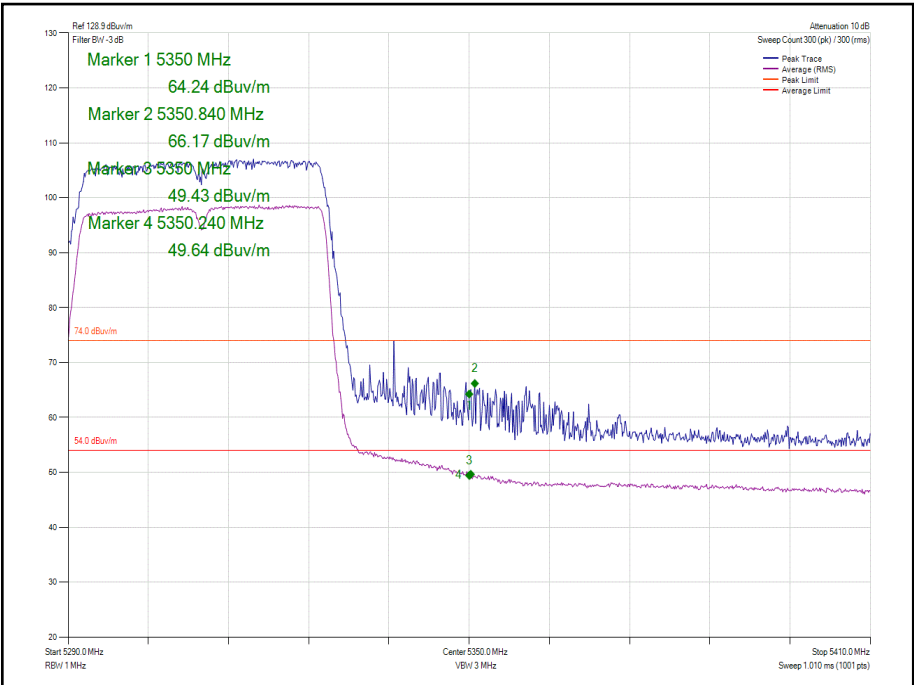


Figure 1075 - 802.11n HT40 Core 0 - 5310 MHz
Band Edge Frequency 5350 MHz

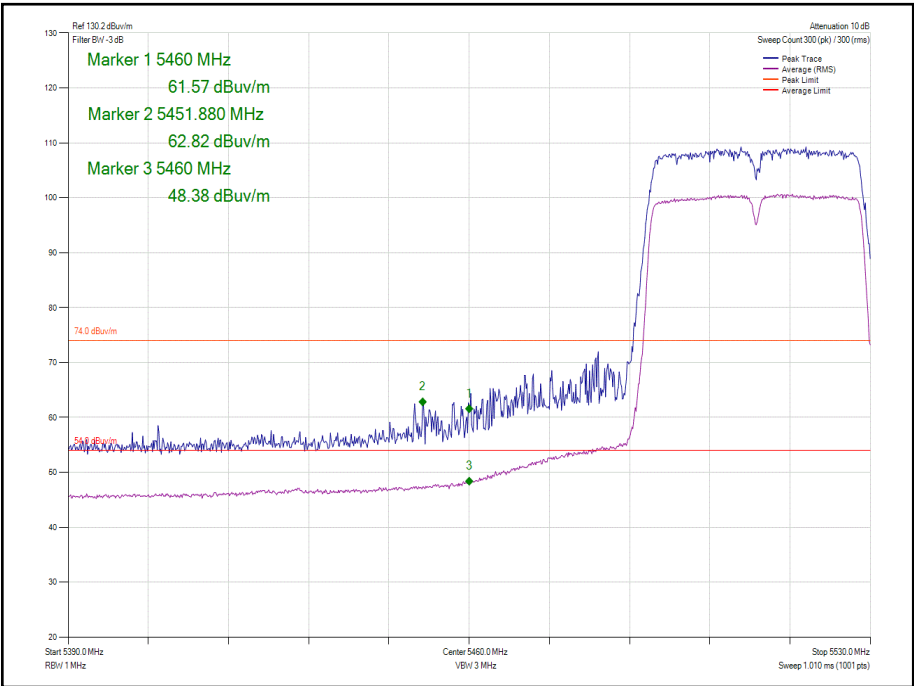


Figure 1076 - 802.11n HT40 Core 0 - 5510 MHz
Band Edge Frequency 5460 MHz



Main - 40 MHz Bandwidth (2TX)

Mode	Data Rate	Frequency (MHz)	Band Edge Frequency (MHz)	Peak Level (dBμV/m)	Average Level (dBμV/m)
802.11n HT40 CDD Cores 0-1	MCS0	5190	5150	61.21	47.90
802.11n HT40 SDM Cores 0-1	MCS0	5190	5150	60.40	48.43
802.11ac VHT40 TxBF Cores 0-1	MCS0	5190	5150	56.85	46.58
802.11n HT40 CDD Cores 0-1	MCS0	5230	5350	59.69	45.87
802.11n HT40 SDM Cores 0-1	MCS0	5230	5350	59.96	48.19
802.11ac VHT40 TxBF Cores 0-1	MCS0	5230	5350	58.44	47.75
802.11n HT40 CDD Cores 0-1	MCS0	5270	5150	55.24	44.95
802.11n HT40 SDM Cores 0-1	MCS0	5270	5150	55.68	45.05
802.11ac VHT40 TxBF Cores 0-1	MCS0	5270	5150	56.01	44.78
802.11n HT40 CDD Cores 0-1	MCS0	5310	5350	58.94	48.66
802.11n HT40 SDM Cores 0-1	MCS0	5310	5350	65.74	50.13
802.11ac VHT40 TxBF Cores 0-1	MCS0	5310	5350	57.69	47.80
802.11n HT40 CDD Cores 0-1	MCS0	5510	5460	57.51	47.00
802.11n HT40 SDM Cores 0-1	MCS0	5510	5460	57.06	46.83
802.11ac VHT40 TxBF Cores 0-1	MCS0	5510	5460	57.95	47.30

Table 458

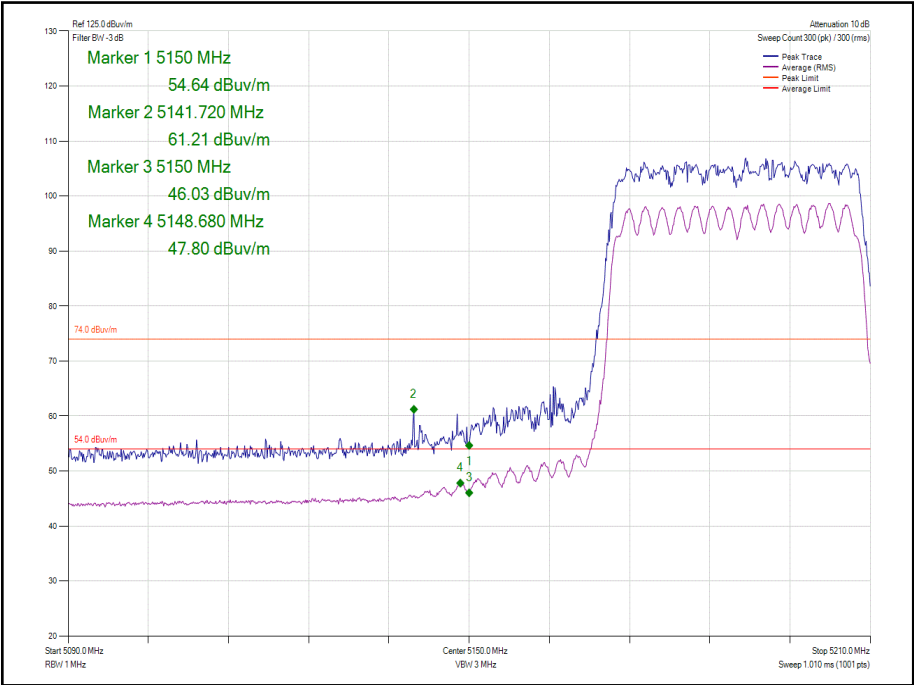


Figure 1077 - 802.11n HT40 CDD Cores 0-1 - 5190 MHz
Band Edge Frequency 5150 MHz

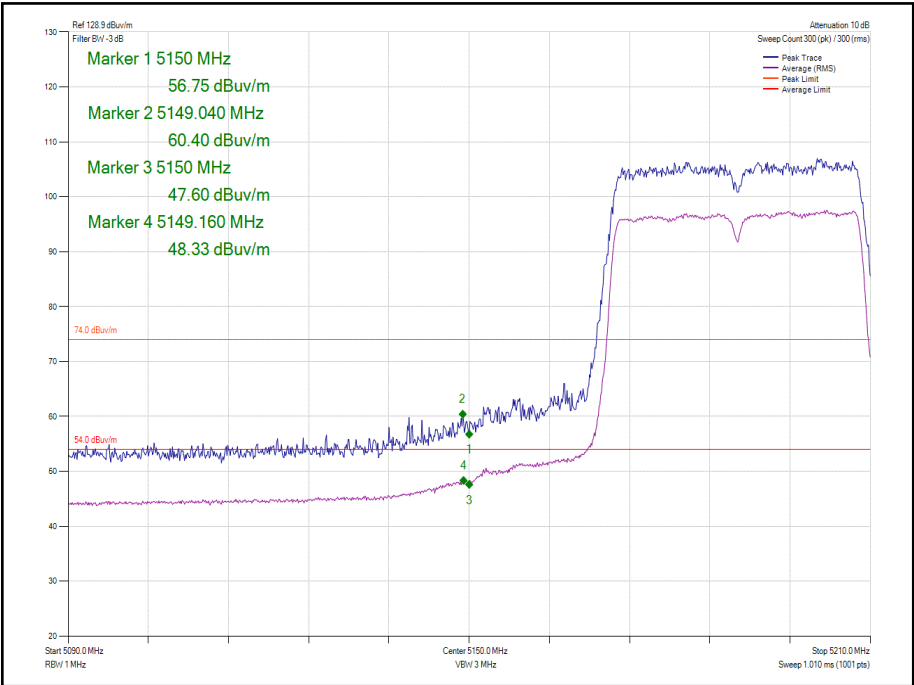


Figure 1078 - 802.11n HT40 SDM Cores 0-1 - 5190 MHz
Band Edge Frequency 5150 MHz

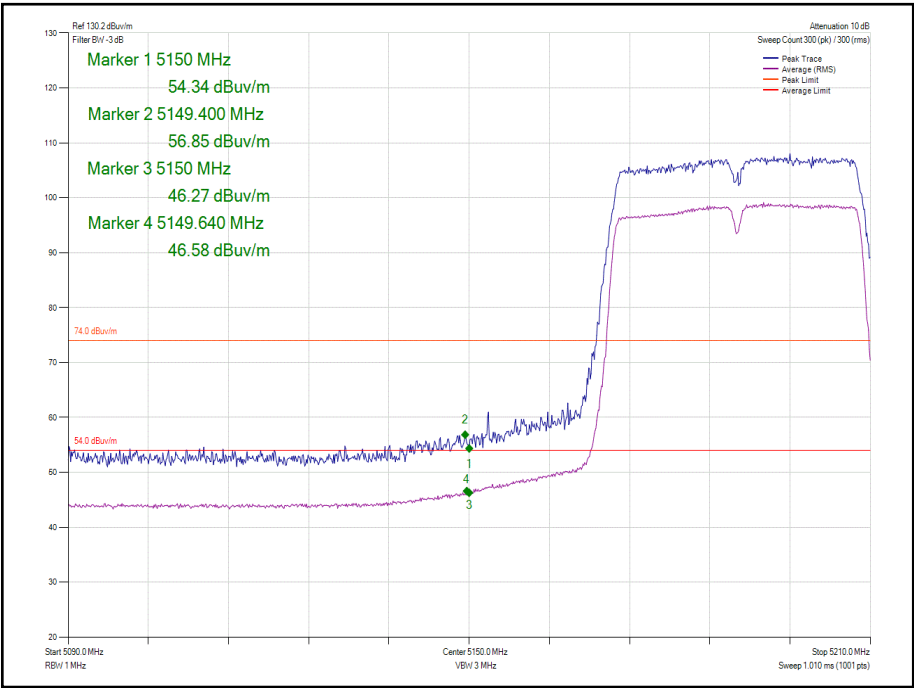


Figure 1079 - 802.11ac VHT40 TxBF Cores 0-1 - 5190 MHz
Band Edge Frequency 5150 MHz

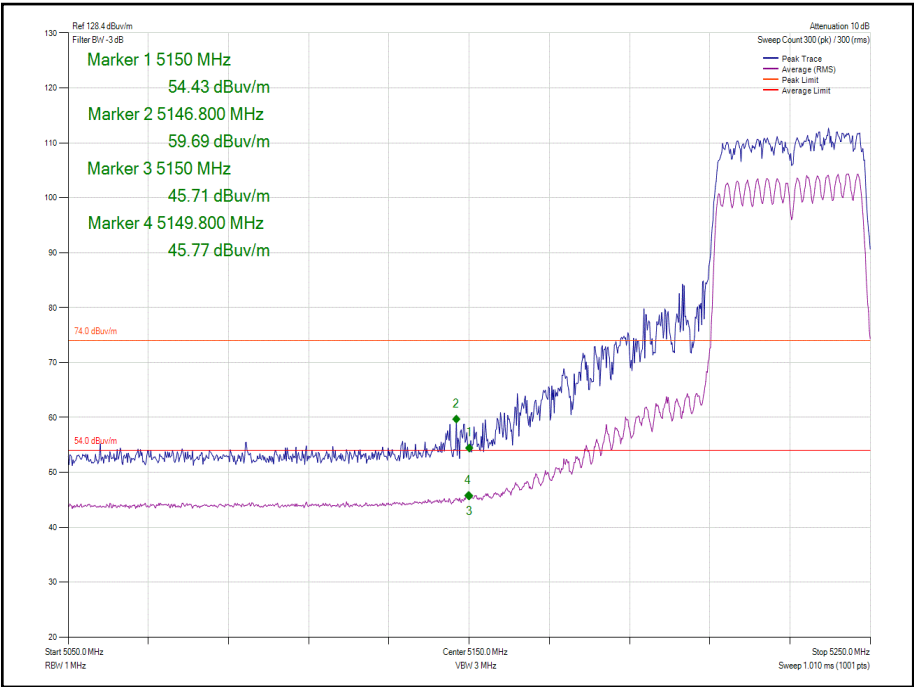


Figure 1080 - Ch46 LBE 802.11n HT40 CDD Cores 0-1 - 5230 MHz
Band Edge Frequency 5150 MHz

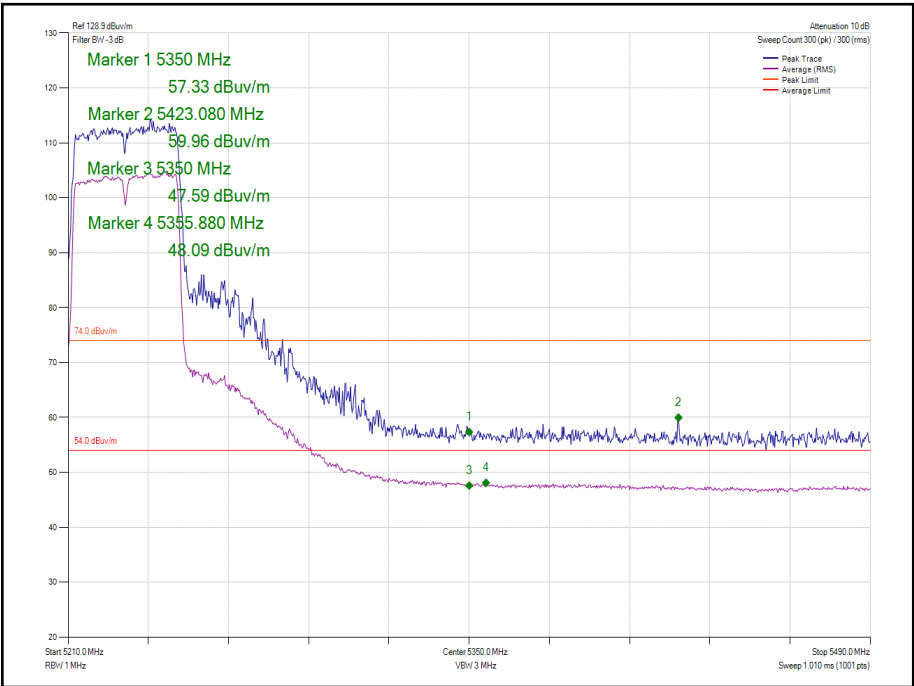


Figure 1081 - 802.11n HT40 SDM Cores 0-1 - 5230 MHz
Band Edge Frequency 5350 MHz

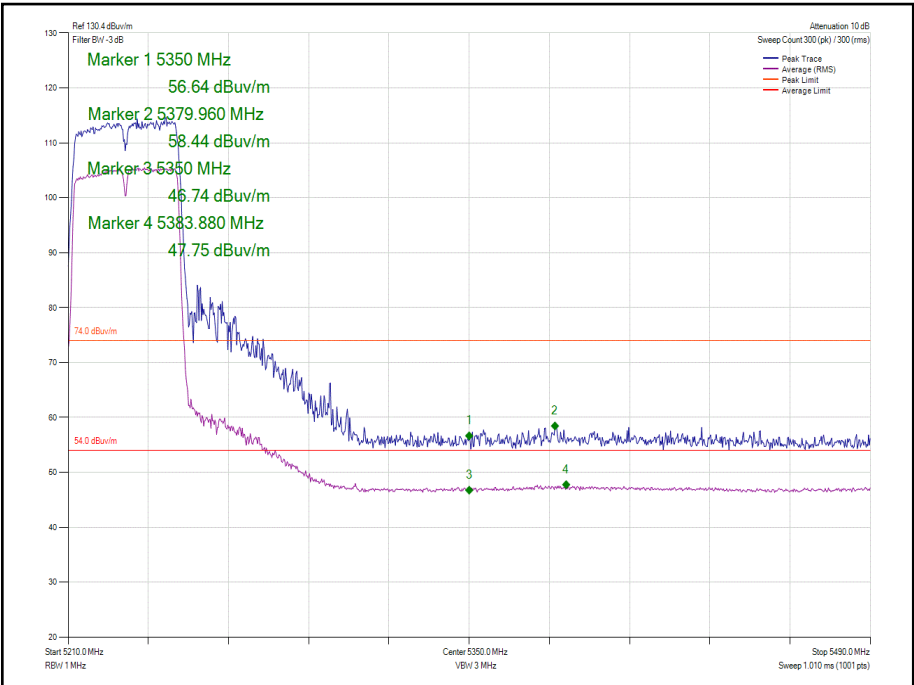


Figure 1082 - 802.11ac VHT40 TxBF Cores 0-1 - 5230 MHz
Band Edge Frequency 5350 MHz

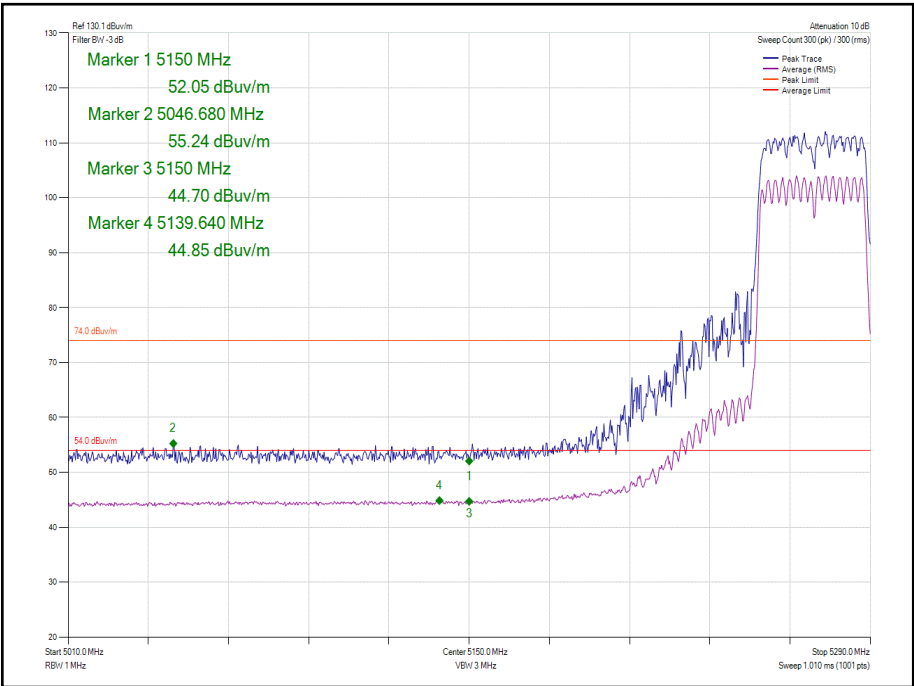


Figure 1083 - 802.11n HT40 CDD Cores 0-1 - 5270 MHz
Band Edge Frequency 5150 MHz

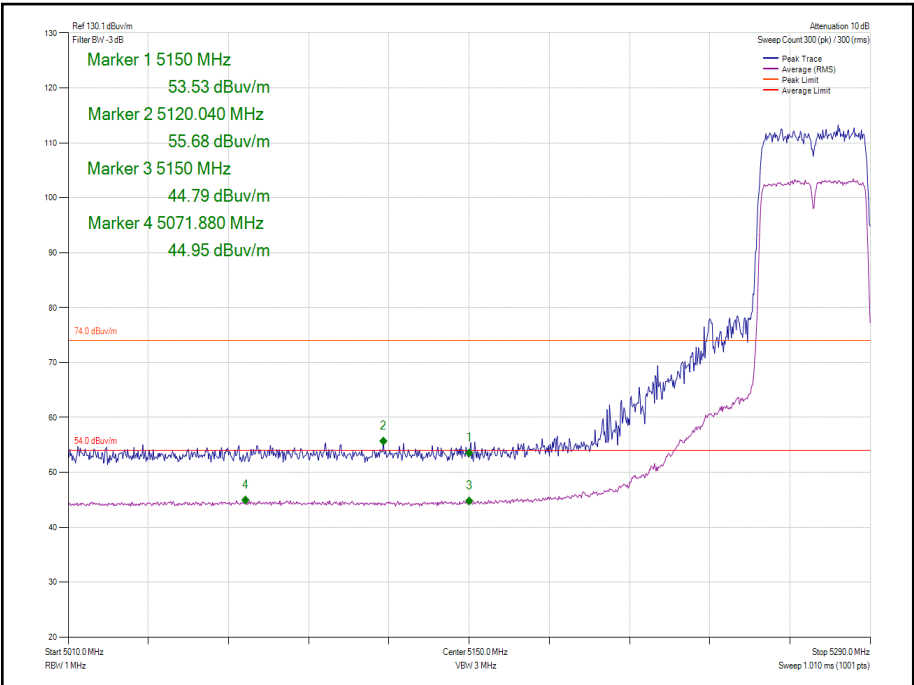


Figure 1084 - 802.11n HT40 SDM Cores 0-1 - 5270 MHz
Band Edge Frequency 5150 MHz

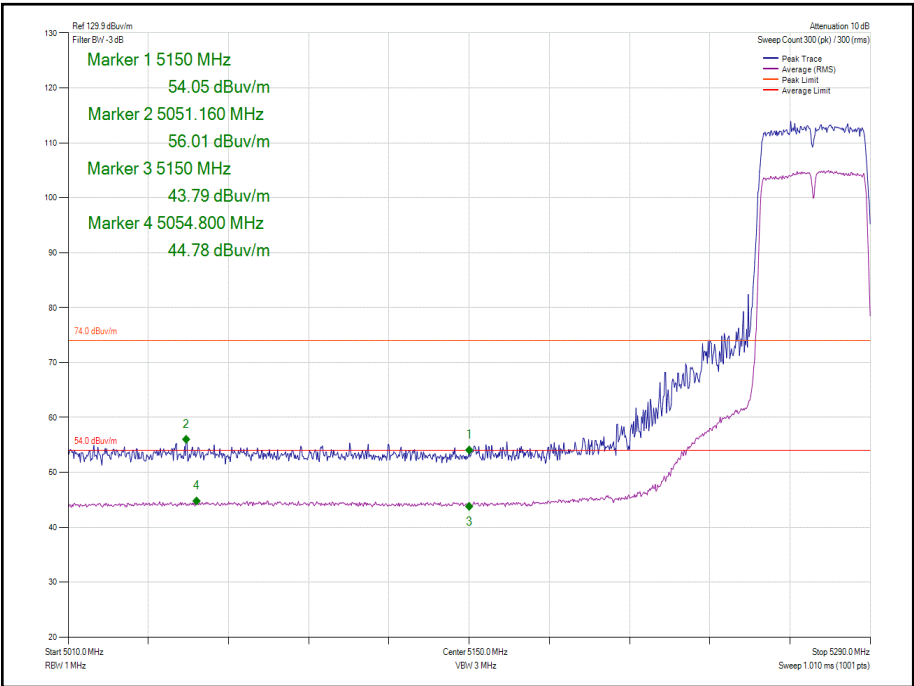


Figure 1085 - 802.11ac VHT40 TxBF Cores 0-1 - 5270 MHz
Band Edge Frequency 5150 MHz

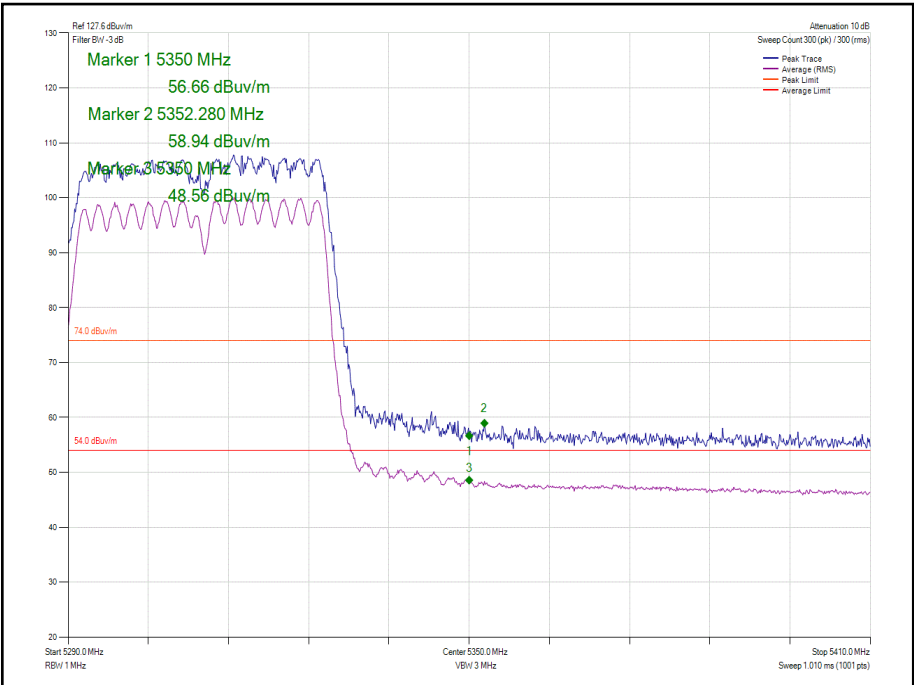


Figure 1086 - 802.11n HT40 CDD Cores 0-1 - 5310 MHz
Band Edge Frequency 5352.28 MHz

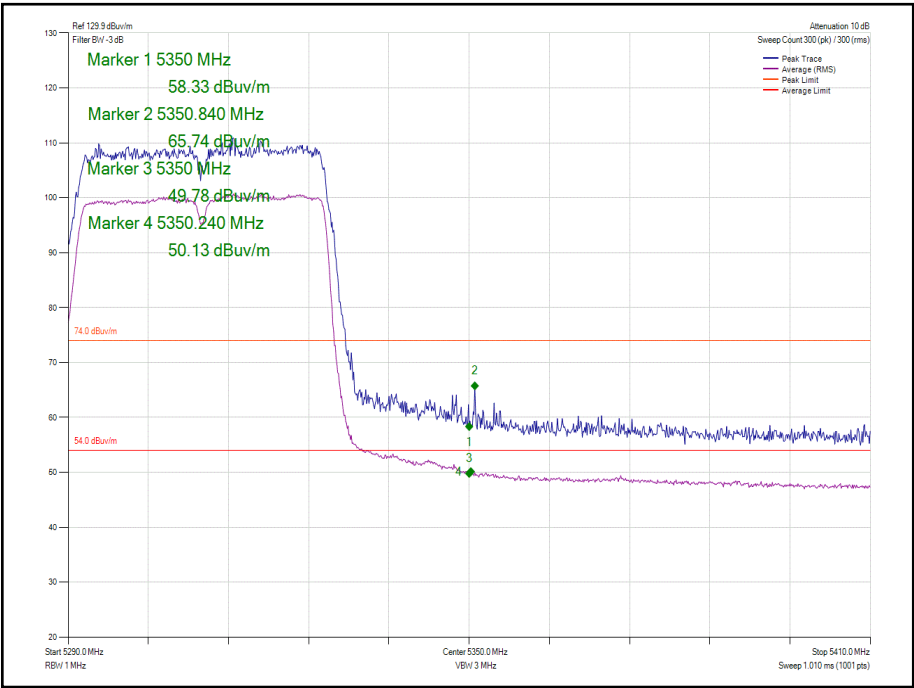


Figure 1087 - 802.11n HT40 SDM Cores 0-1 - 5310 MHz
Band Edge Frequency 5350 MHz

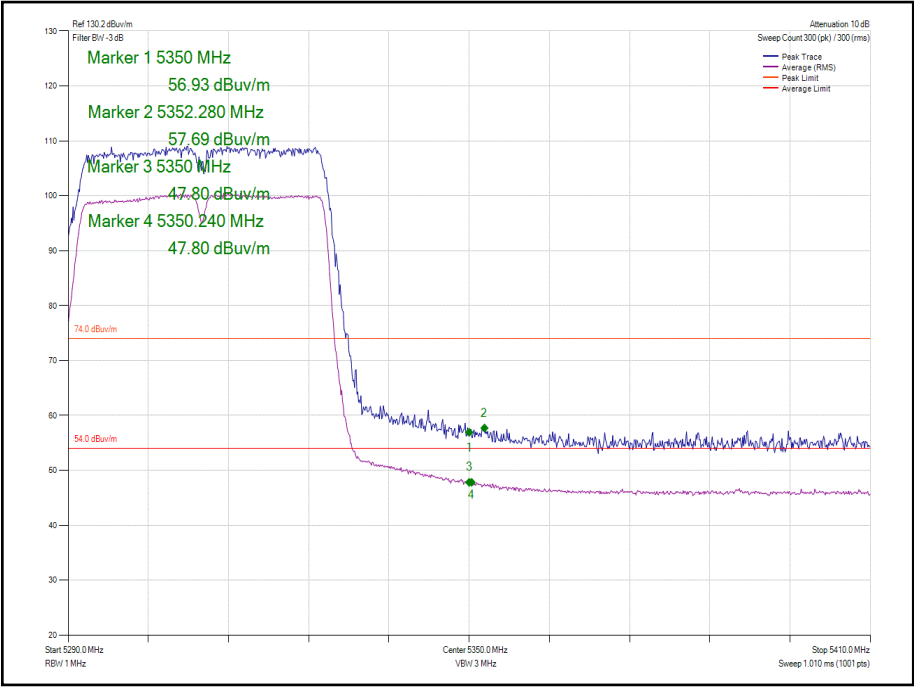


Figure 1088 - 802.11ac VHT40 TxBF Cores 0-1 - 5310 MHz
Band Edge Frequency 5350 MHz

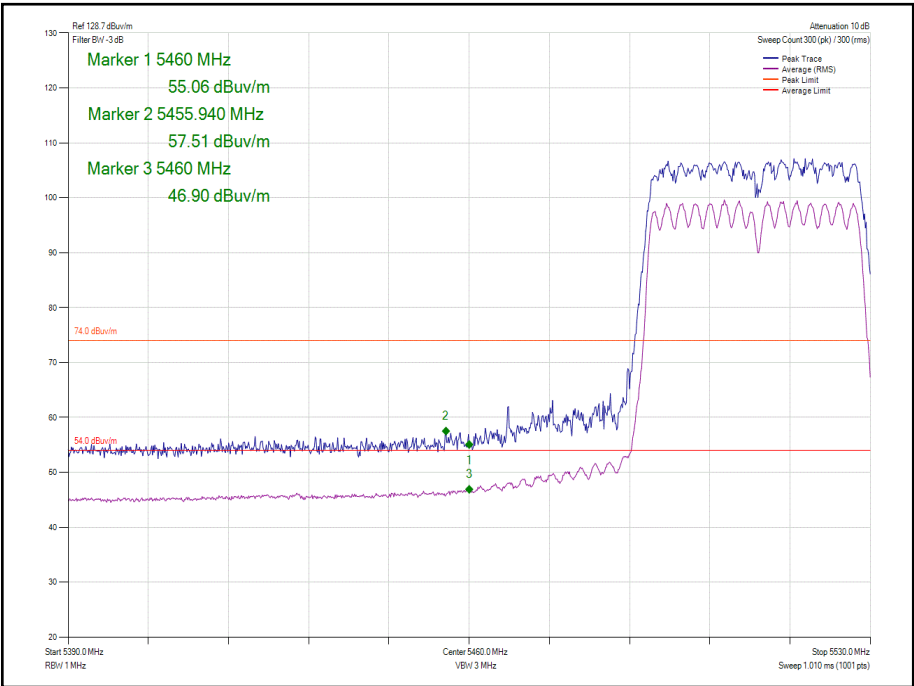


Figure 1089 - 802.11n HT40 CDD Cores 0-1 - 5510 MHz
Band Edge Frequency 5460 MHz

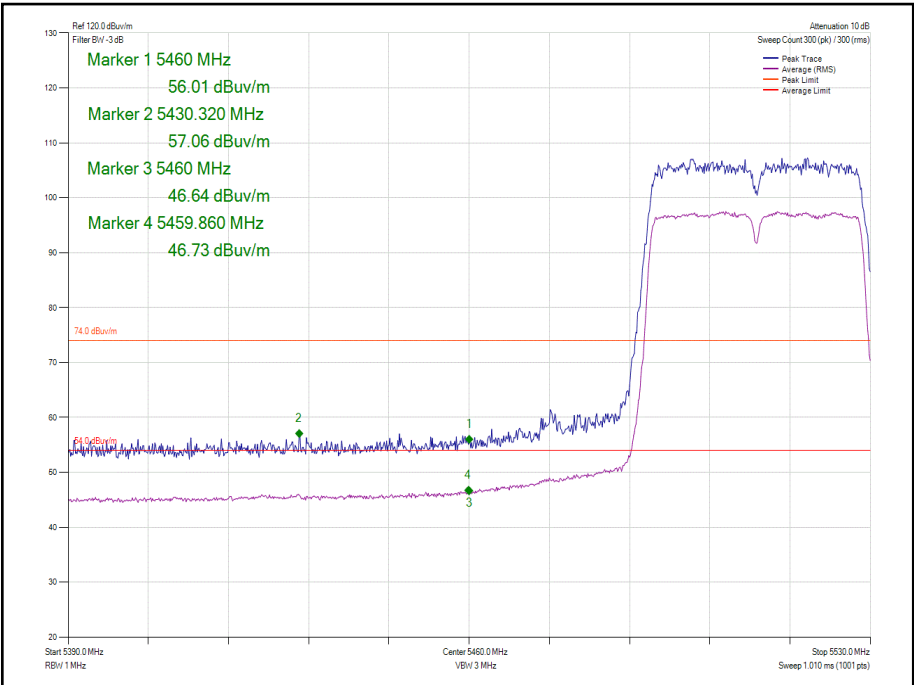


Figure 1090 - 802.11n HT40 SDM Cores 0-1 - 5510 MHz
Band Edge Frequency 5460 MHz

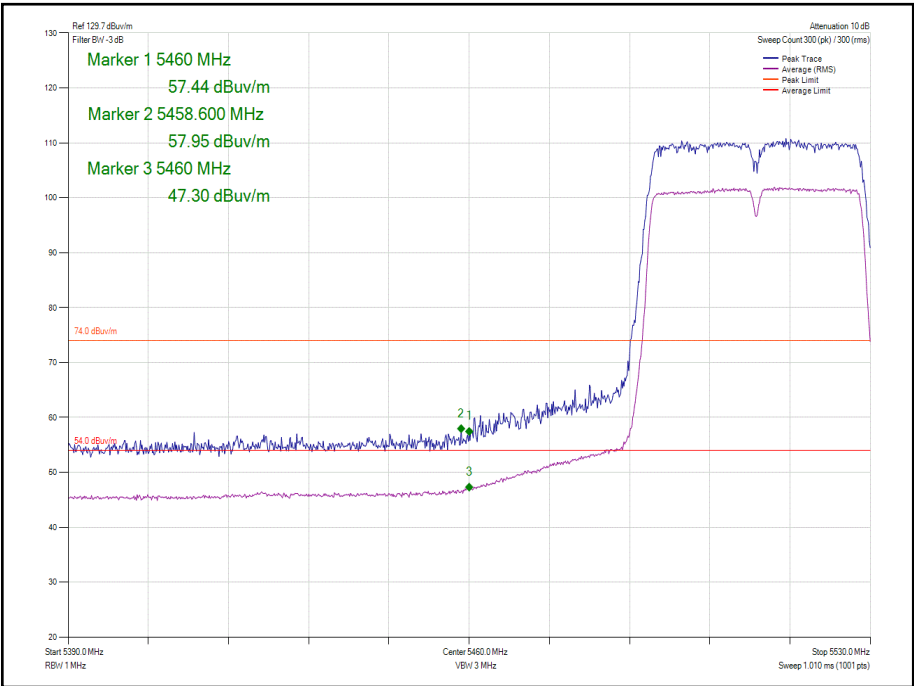


Figure 1091 - 802.11ac VHT40 TxBF Cores 0-1 - 5510 MHz
Band Edge Frequency 5460 MHz



Main - 40 MHz Bandwidth (3TX)

Mode	Data Rate	Frequency (MHz)	Band Edge Frequency (MHz)	Peak Level (dBμV/m)	Average Level (dBμV/m)
802.11n HT40 CDD Cores 0-1-2	MCS0	5190	5150	55.66	45.91
802.11n HT40 SDM Cores 0-1-2	MCS0	5190	5150	58.46	48.28
802.11ac VHT40 TxBF Cores 0-1-2	MCS0	5190	5150	58.06	46.35
802.11n HT40 CDD Cores 0-1-2	MCS0	5230	5350	56.72	46.68
802.11n HT40 SDM Cores 0-1-2	MCS0	5230	5350	59.07	48.36
802.11ac VHT40 TxBF Cores 0-1-2	MCS0	5230	5350	58.56	46.82
802.11n HT40 CDD Cores 0-1-2	MCS0	5270	5150	55.88	44.75
802.11n HT40 SDM Cores 0-1-2	MCS0	5270	5150	55.26	44.81
802.11ac VHT40 TxBF Cores 0-1-2	MCS0	5270	5150	55.52	44.87
802.11n HT40 CDD Cores 0-1-2	MCS0	5310	5350	59.02	49.88
802.11n HT40 SDM Cores 0-1-2	MCS0	5310	5350	63.46	49.93
802.11ac VHT40 TxBF Cores 0-1-2	MCS0	5310	5350	58.29	47.63
802.11n HT40 CDD Cores 0-1-2	MCS0	5510	5460	57.51	47.00
802.11n HT40 SDM Cores 0-1-2	MCS0	5510	5460	57.96	47.45
802.11ac VHT40 TxBF Cores 0-1-2	MCS0	5510	5460	59.44	48.25

Table 459

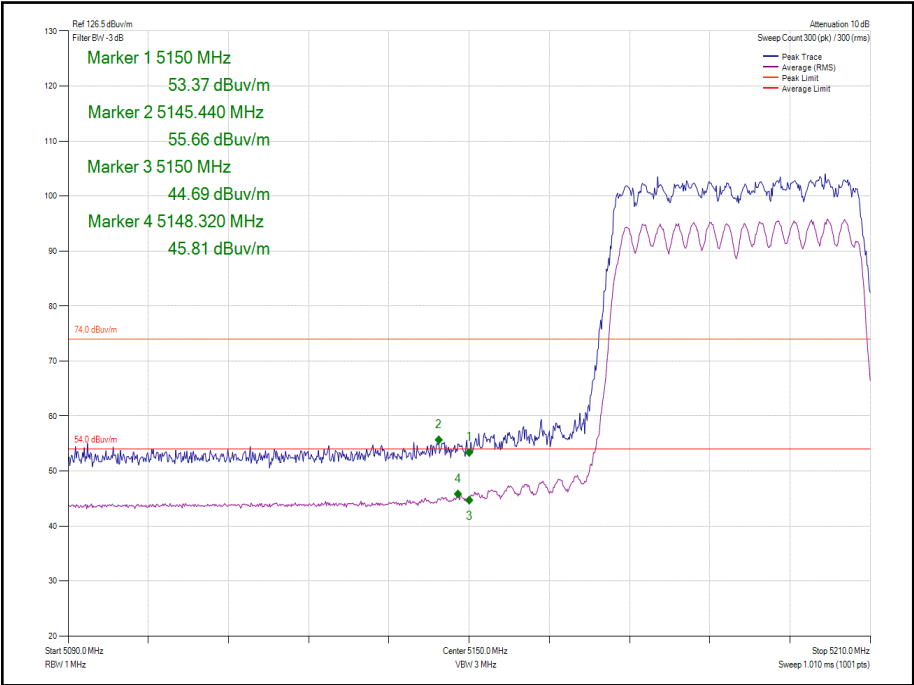


Figure 1092 - 802.11n HT40 CDD Cores 0-1-2 - 5190 MHz
Band Edge Frequency 5150 MHz

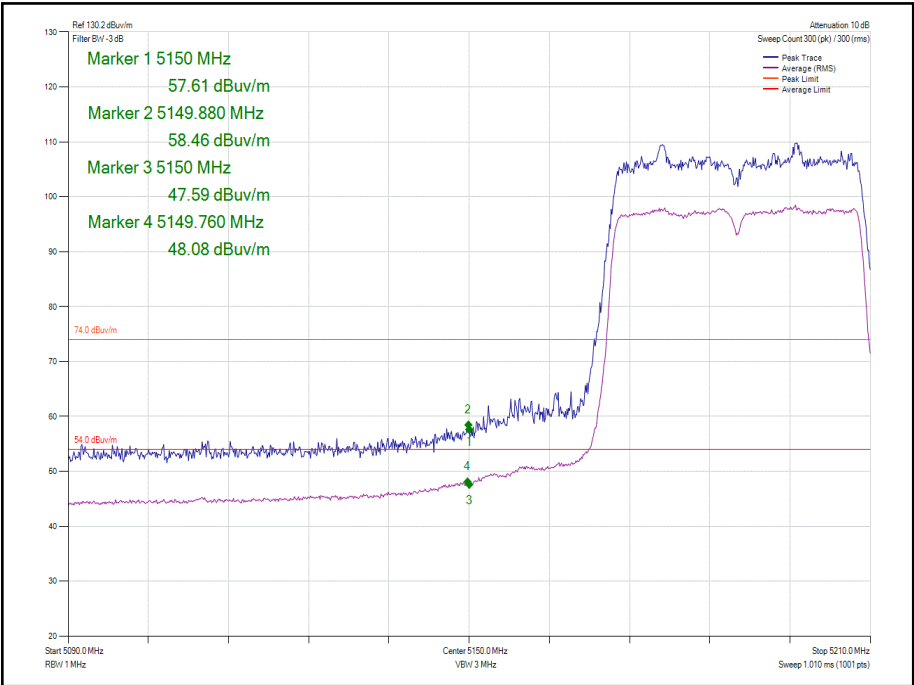


Figure 1093 - 802.11n HT40 SDM Cores 0-1-2 - 5190 MHz
Band Edge Frequency 5150 MHz

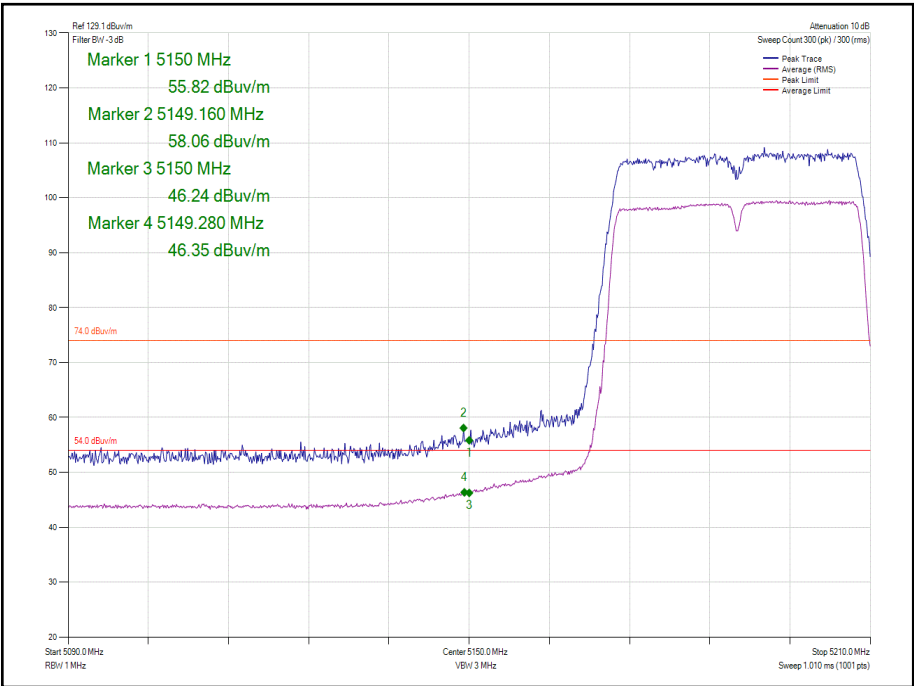


Figure 1094 - 802.11ac VHT40 TxBF Cores 0-1-2 - 5190 MHz
Band Edge Frequency 5150 MHz

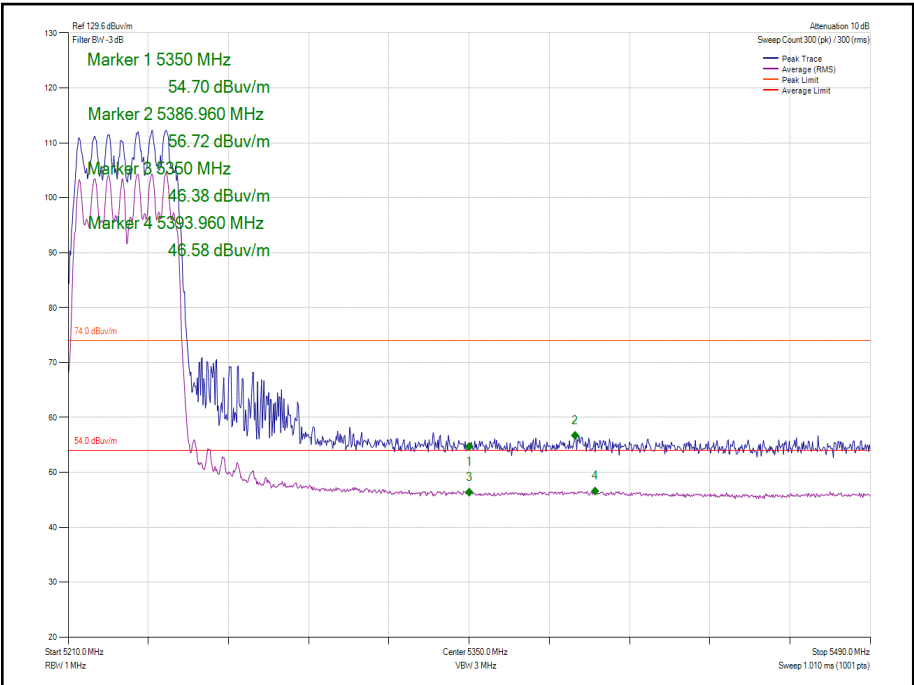


Figure 1095 - 802.11n HT40 CDD Cores 0-1-2 - 5230 MHz
Band Edge Frequency 5350 MHz

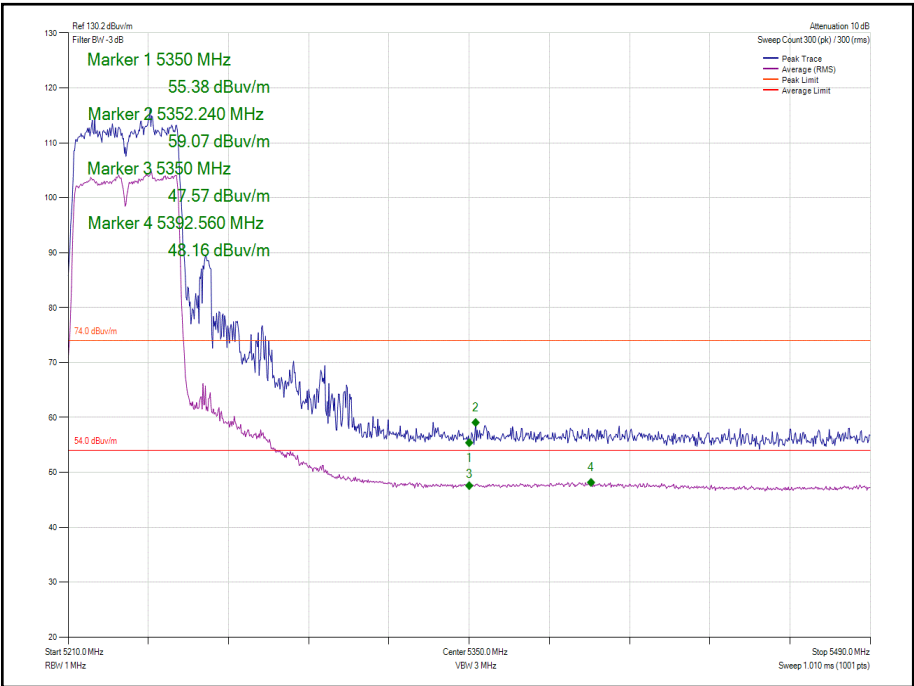


Figure 1096 - 802.11n HT40 SDM Cores 0-1-2 - 5230 MHz
Band Edge Frequency 5350 MHz

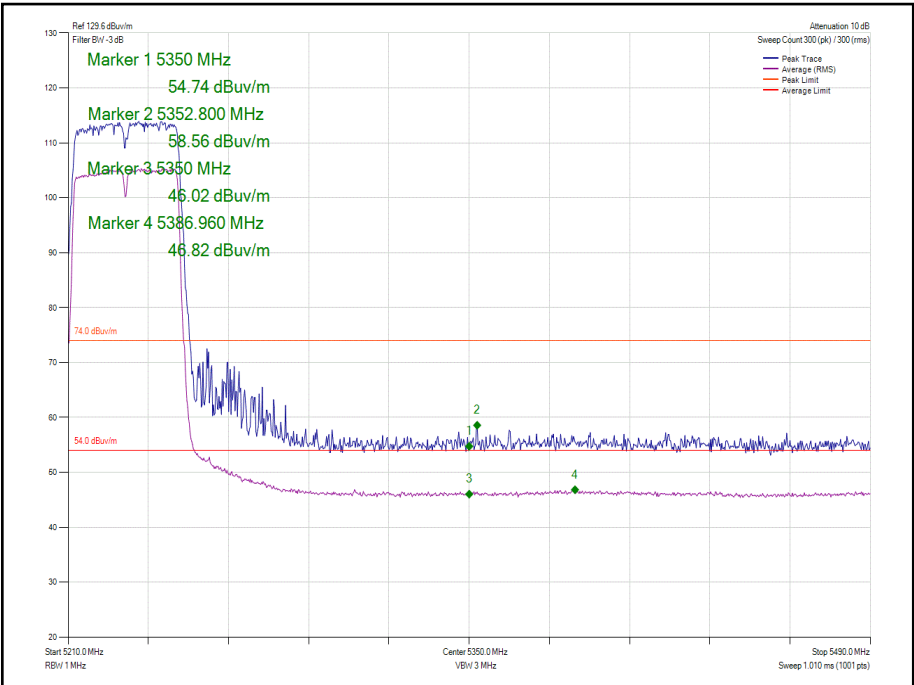


Figure 1097 - 802.11ac VHT40 Tx BF Cores 0-1-2 - 5230 MHz
Band Edge Frequency 5350 MHz

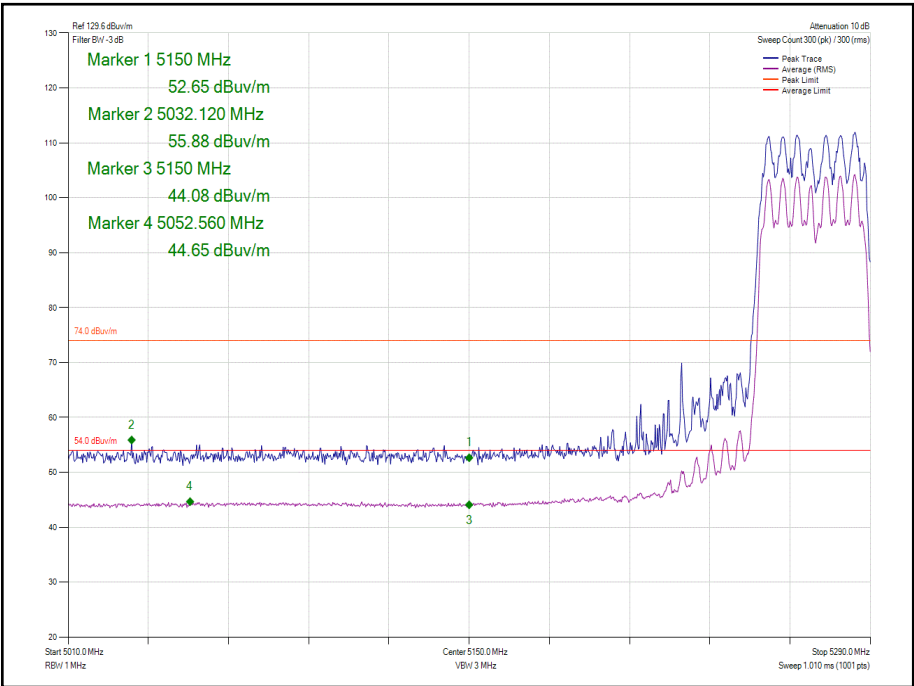


Figure 1098 - 802.11n HT40 CDD Cores 0-1-2 - 5270 MHz
Band Edge Frequency 5150 MHz

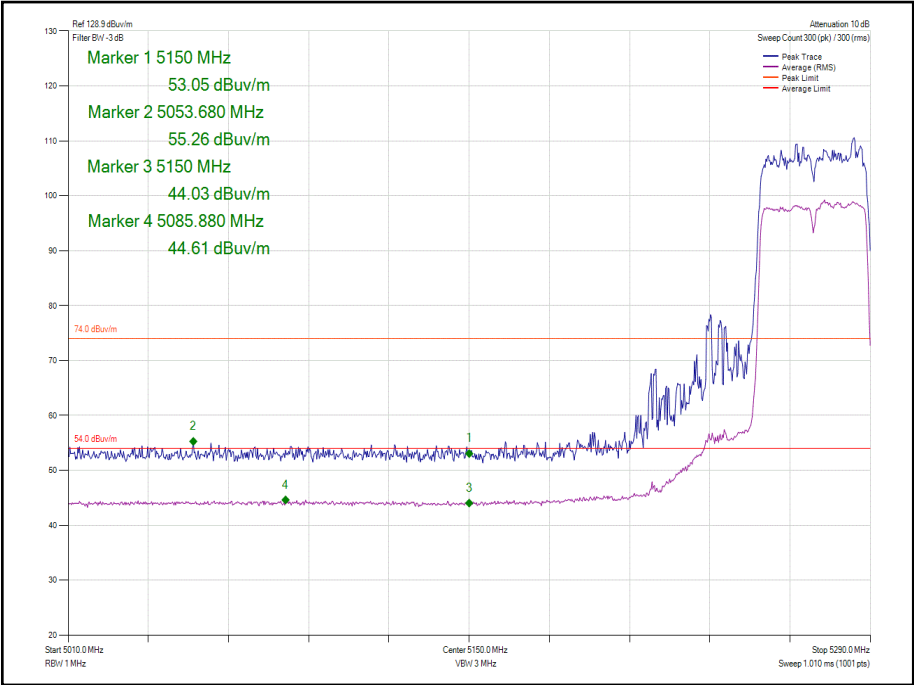
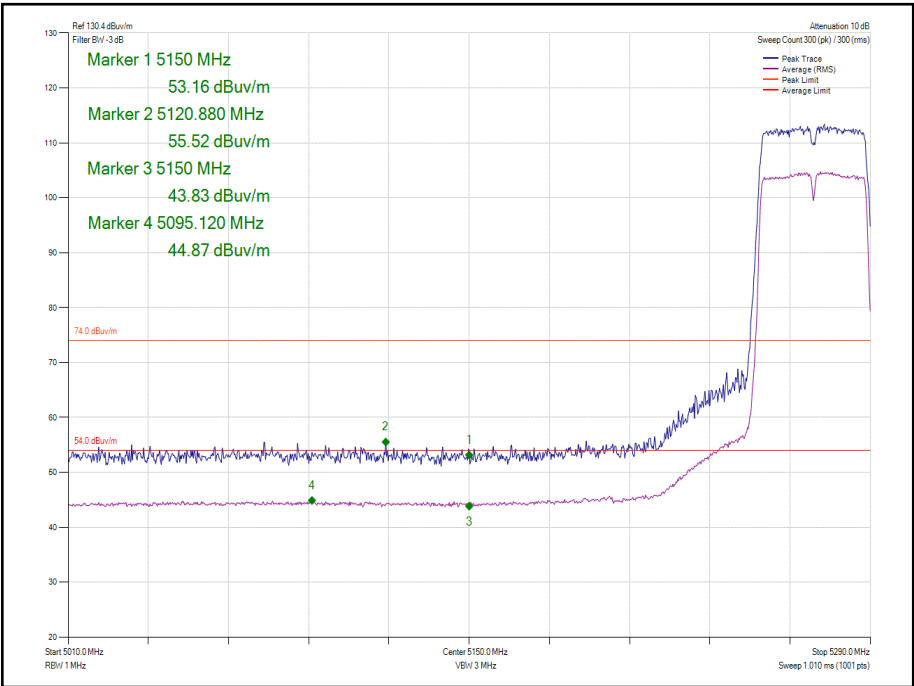
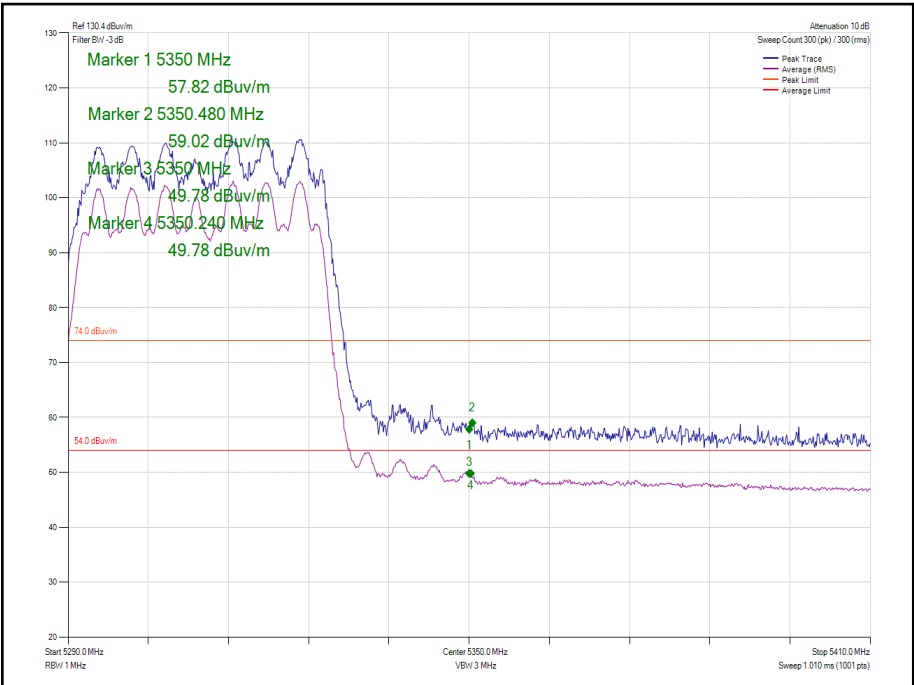


Figure 1099 - 802.11n HT40 SDM Cores 0-1-2 - 5270 MHz
Band Edge Frequency 5150 MHz



**Figure 1100 - 802.11ac VHT40 TxBF Cores 0-1-2 - 5270 MHz
Band Edge Frequency 5150 MHz**



**Figure 1101 - 802.11n HT40 CDD Cores 0-1-2 - 5310 MHz
Band Edge Frequency 5350 MHz**

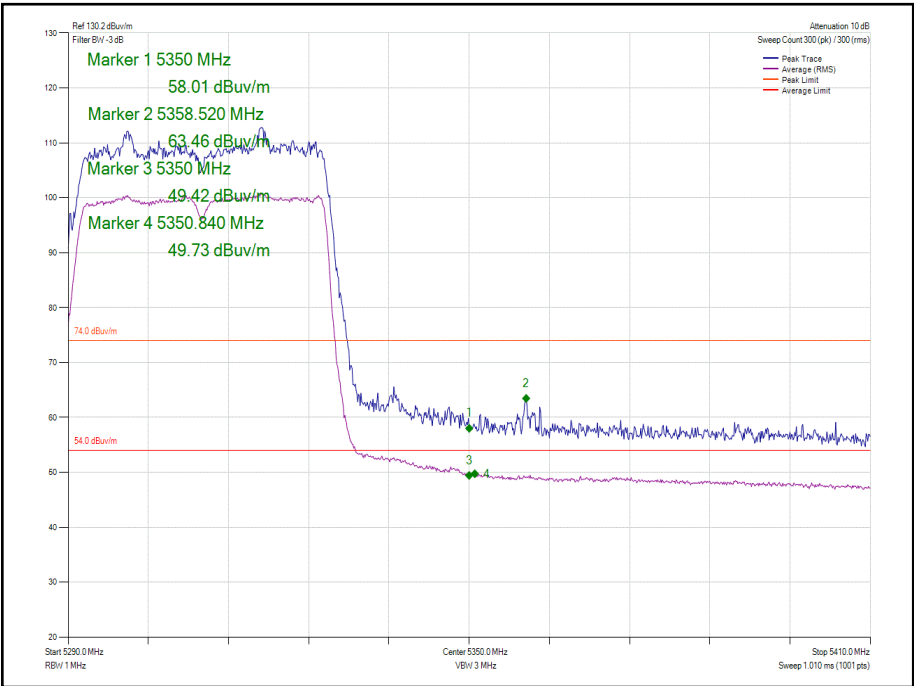


Figure 1102 - 802.11n HT40 SDM Cores 0-1-2 - 5310 MHz
Band Edge Frequency 5350 MHz

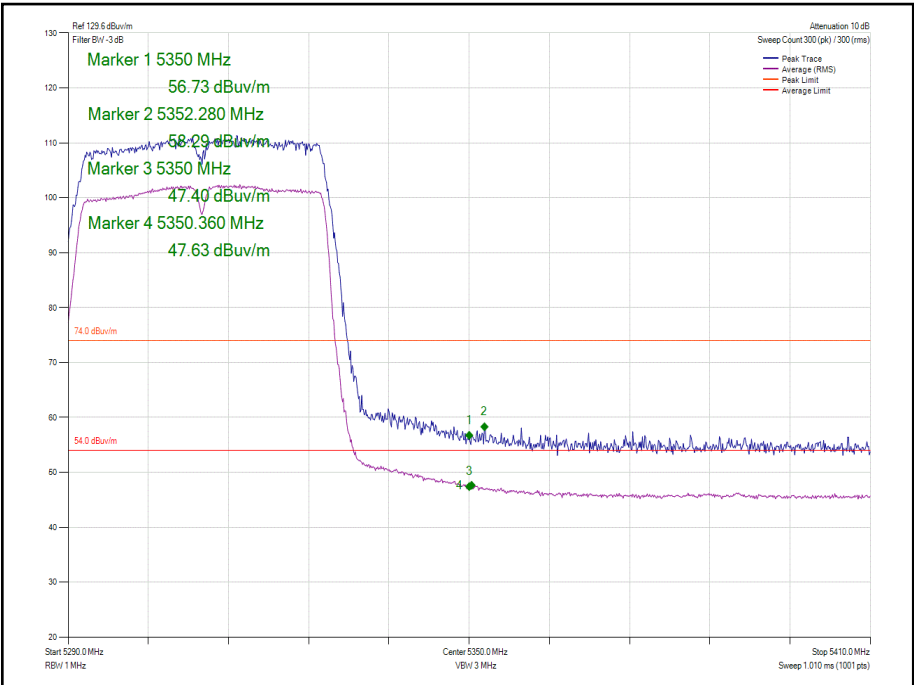


Figure 1103 - 802.11ac VHT40 Tx BF Cores 0-1-2 - 5310 MHz
Band Edge Frequency 5350 MHz

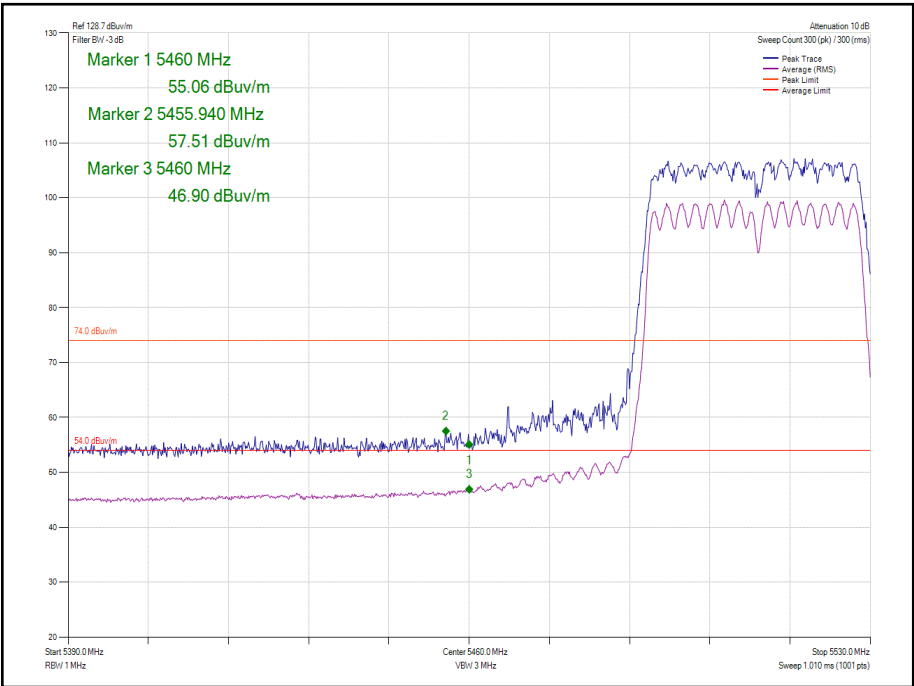


Figure 1104 - 802.11n HT40 CDD Cores 0-1-2 - 5510 MHz
Band Edge Frequency 5460 MHz

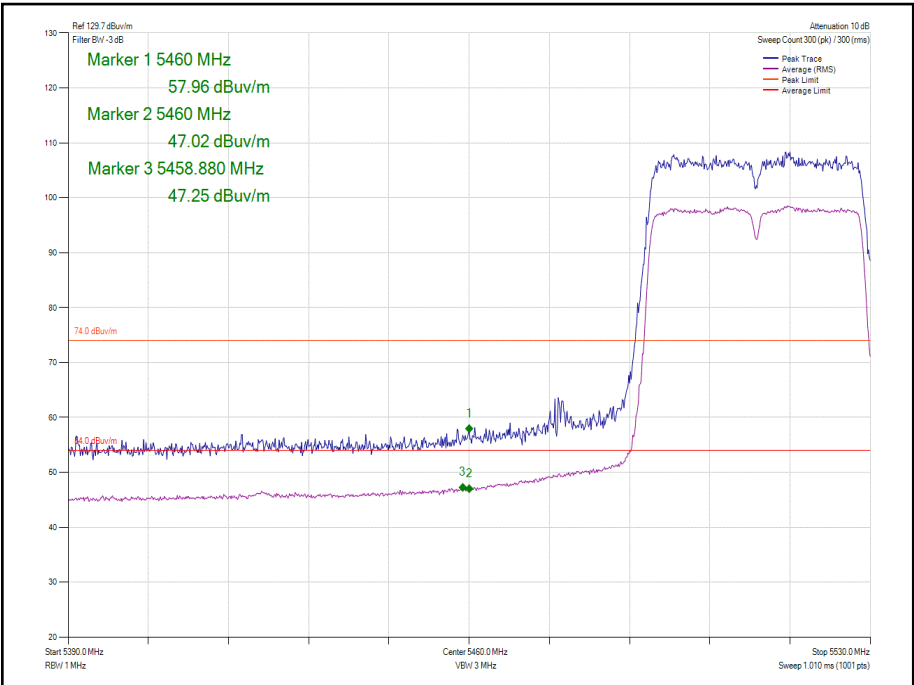
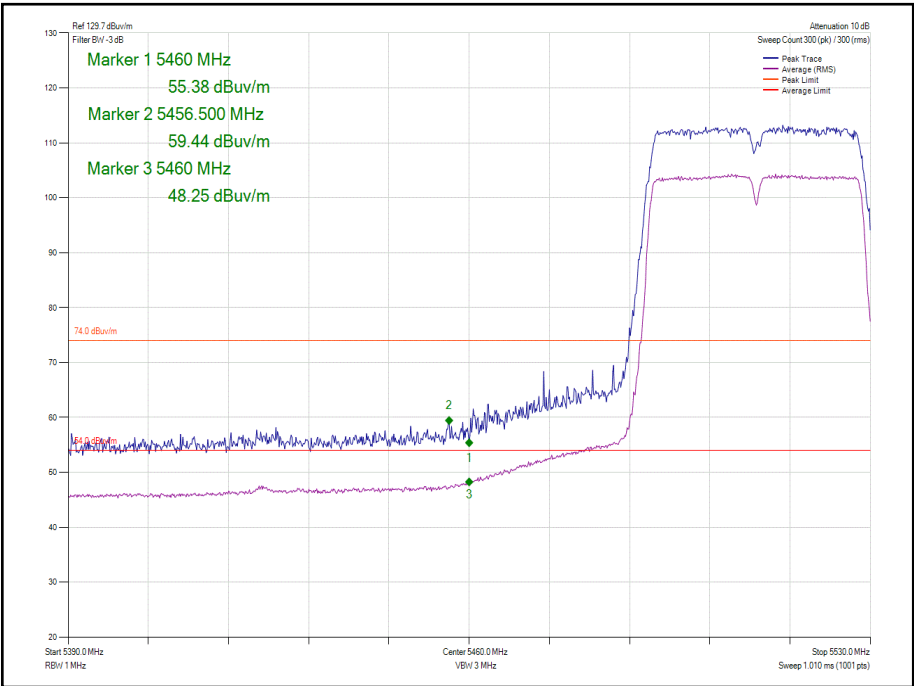


Figure 1105 - 802.11n HT40 SDM Cores 0-1-2 - 5510 MHz
Band Edge Frequency 5460 MHz



**Figure 1106 - 802.11ac VHT40 TxBF Cores 0-1-2 - 5510 MHz
Band Edge Frequency 5460 MHz**



Main - 80 MHz Bandwidth (SISO)

Mode	Data Rate	Frequency (MHz)	Band Edge Frequency (MHz)	Peak Level (dBµV/m)	Average Level (dBµV/m)
802.11ac VHT80 Core 0	MCS0	5210	5150	62.19	48.07
802.11ac VHT80 Core 0	MCS0	5210	5350	57.27	46.50
802.11ac VHT80 Core 0	MCS0	5290	5150	55.44	44.40
802.11ac VHT80 Core 0	MCS0	5290	5350	68.71	48.87
802.11ac VHT80 Core 0	MCS0	5530	5460	58.72	48.11

Table 460

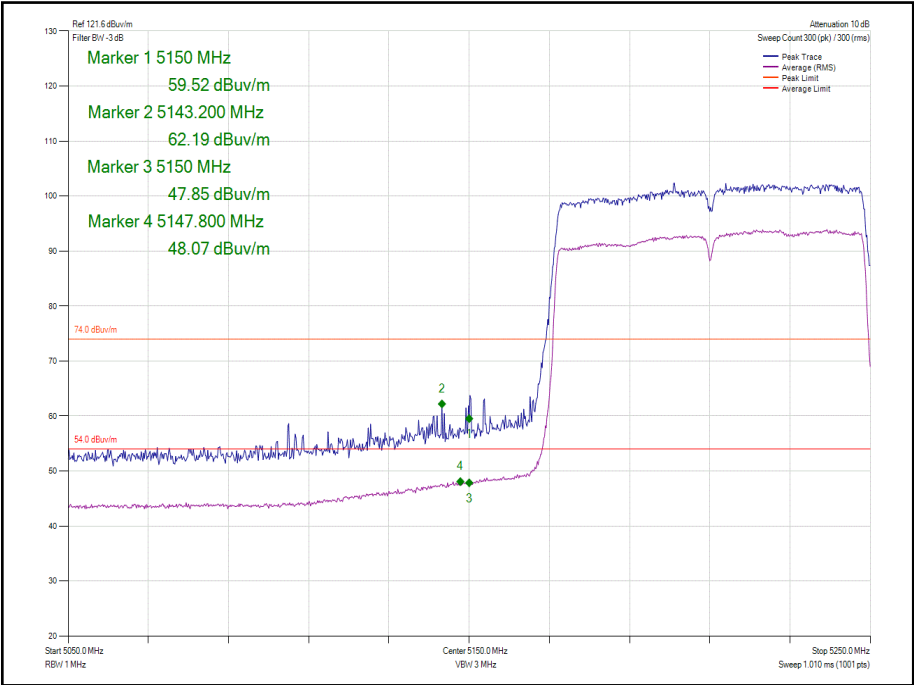


Figure 1107 - 802.11ac VHT80 Core 0 - 5210 MHz
Band Edge Frequency 5150 MHz

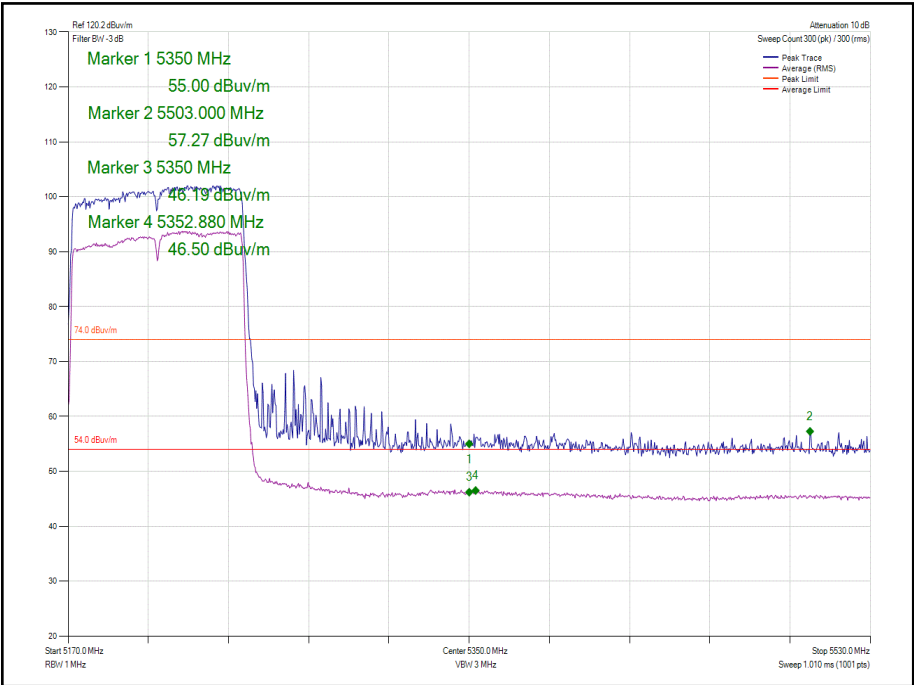


Figure 1108 - 802.11ac VHT80 Core 0 - 5210 MHz
Band Edge Frequency 5350 MHz

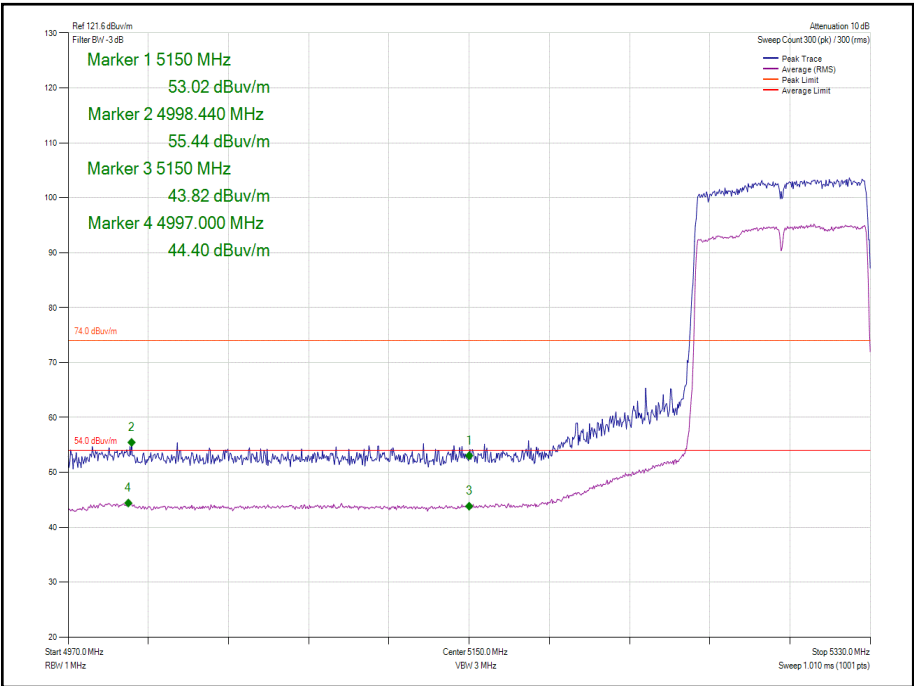


Figure 1109 - 802.11ac VHT80 Core 0 - 5290 MHz
Band Edge Frequency 5150 MHz

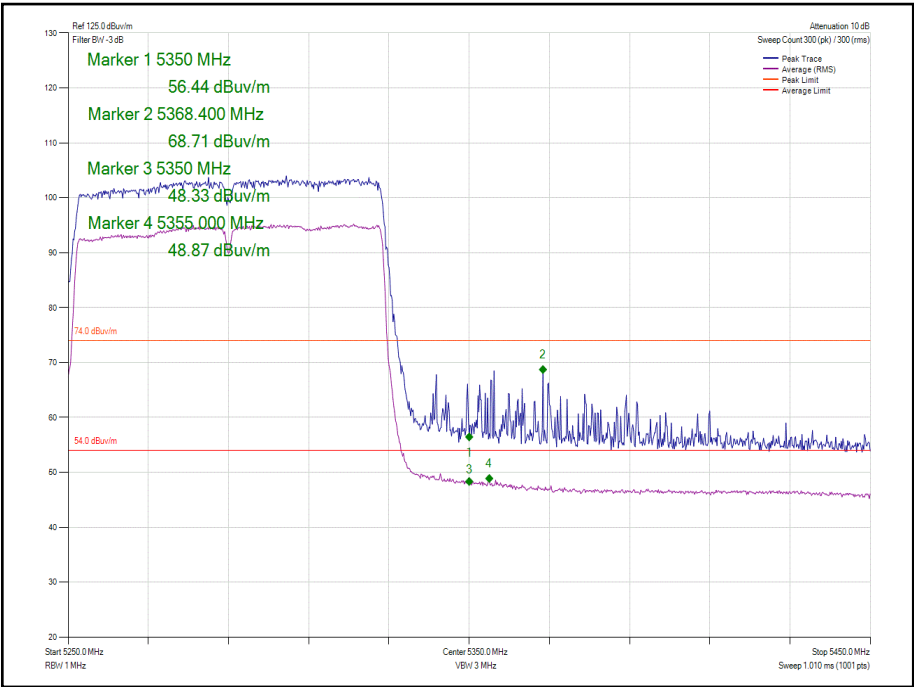


Figure 1110 - 802.11ac VHT80 Core 0 - 5290 MHz
Band Edge Frequency 5350 MHz

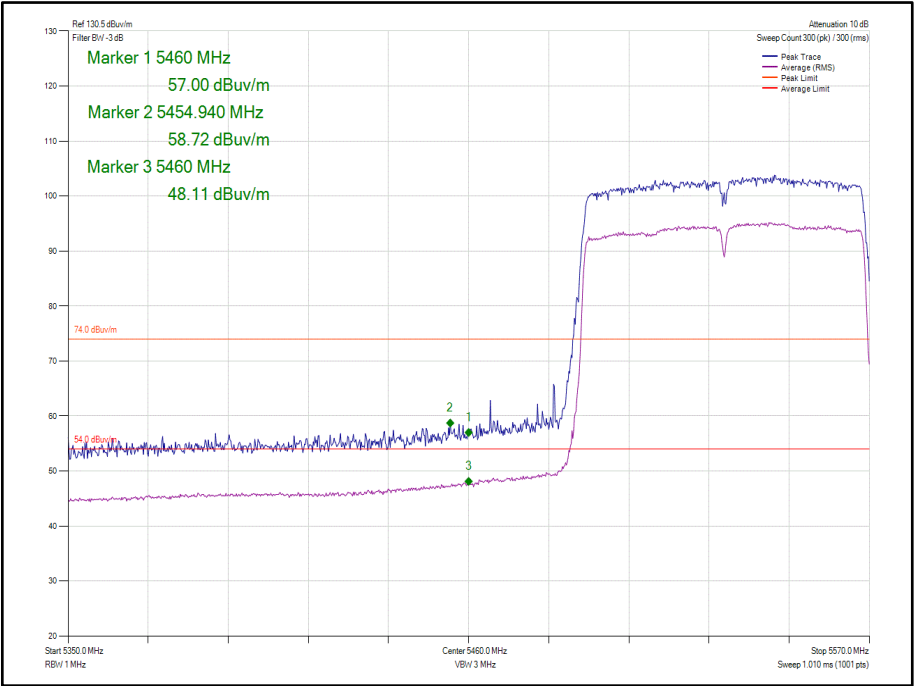


Figure 1111 - 802.11ac VHT80 Core 0 - 5530 MHz
Band Edge Frequency 5350 MHz



Main - 80 MHz Bandwidth (2TX)

Mode	Data Rate	Frequency (MHz)	Band Edge Frequency (MHz)	Peak Level (dBμV/m)	Average Level (dBμV/m)
802.11ac VHT80 CDD Cores 0-1	MCS0	5210	5150	61.66	47.25
802.11ac VHT80 SDM Cores 0-1	MCS0	5210	5150	60.76	47.67
802.11ac VHT80 TxBF Cores 0-1	MCS0	5210	5150	61.42	45.54
802.11ac VHT80 CDD Cores 0-1	MCS0	5210	5350	57.13	46.58
802.11ac VHT80 SDM Cores 0-1	MCS0	5210	5350	56.89	46.32
802.11ac VHT80 TxBF Cores 0-1	MCS0	5210	5350	55.92	45.51
802.11ac VHT80 CDD Cores 0-1	MCS0	5290	5150	56.22	44.88
802.11ac VHT80 SDM Cores 0-1	MCS0	5290	5150	55.46	44.59
802.11ac VHT80 TxBF Cores 0-1	MCS0	5290	5150	55.28	44.59
802.11ac VHT80 CDD Cores 0-1	MCS0	5290	5350	67.04	48.79
802.11ac VHT80 SDM Cores 0-1	MCS0	5290	5350	65.29	47.79
802.11ac VHT80 TxBF Cores 0-1	MCS0	5290	5350	65.48	47.86
802.11ac VHT80 CDD Cores 0-1	MCS0	5530	5460	56.39	46.68
802.11ac VHT80 SDM Cores 0-1	MCS0	5530	5460	57.36	46.73
802.11ac VHT80 TxBF Cores 0-1	MCS0	5530	5460	58.40	47.42

Table 461

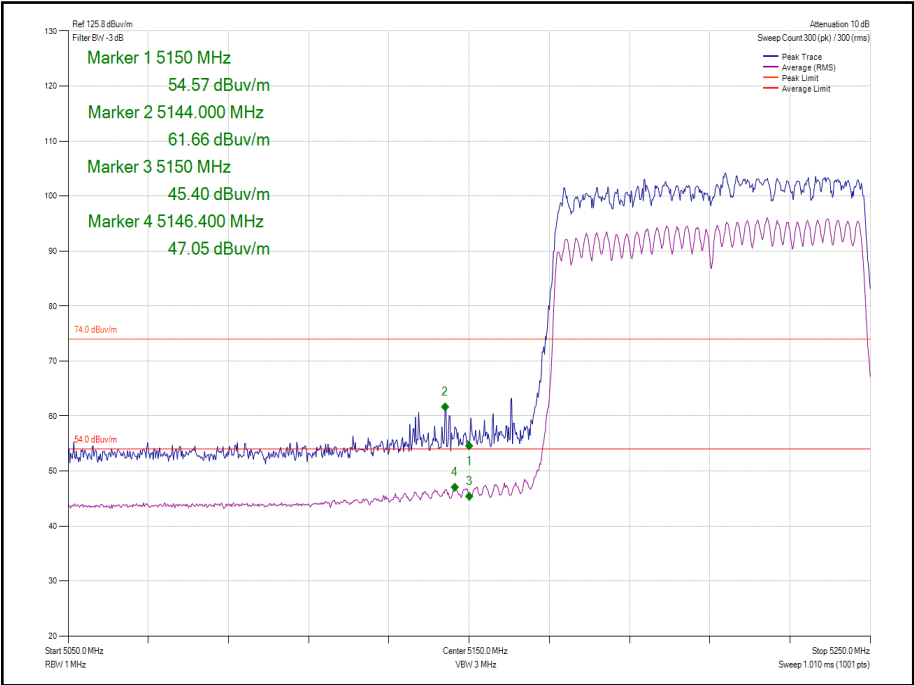


Figure 1112 - 802.11ac VHT80 CDD Cores 0-1 - 5210 MHz
Band Edge Frequency 5150 MHz

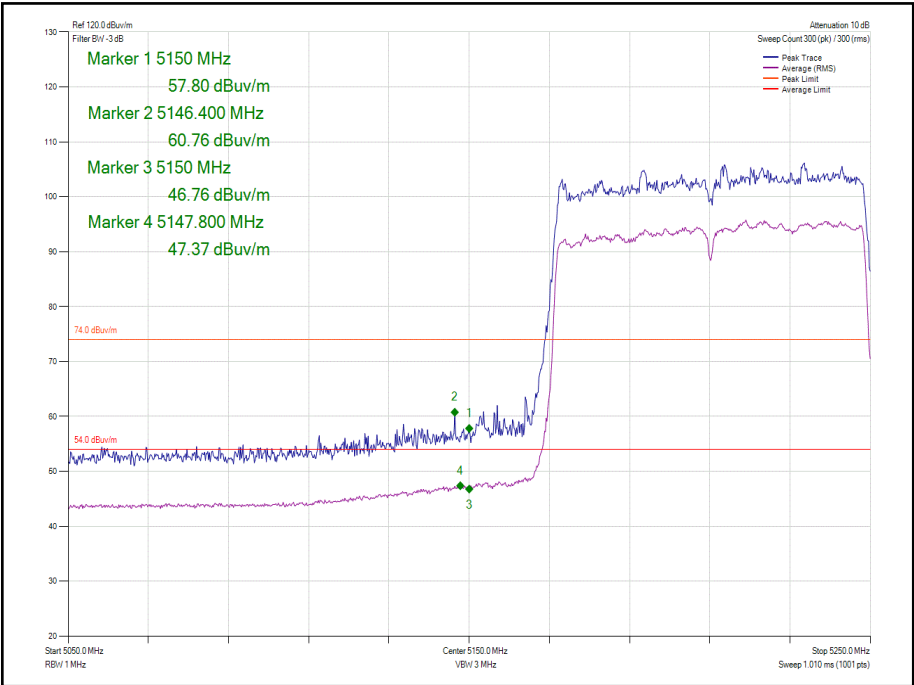
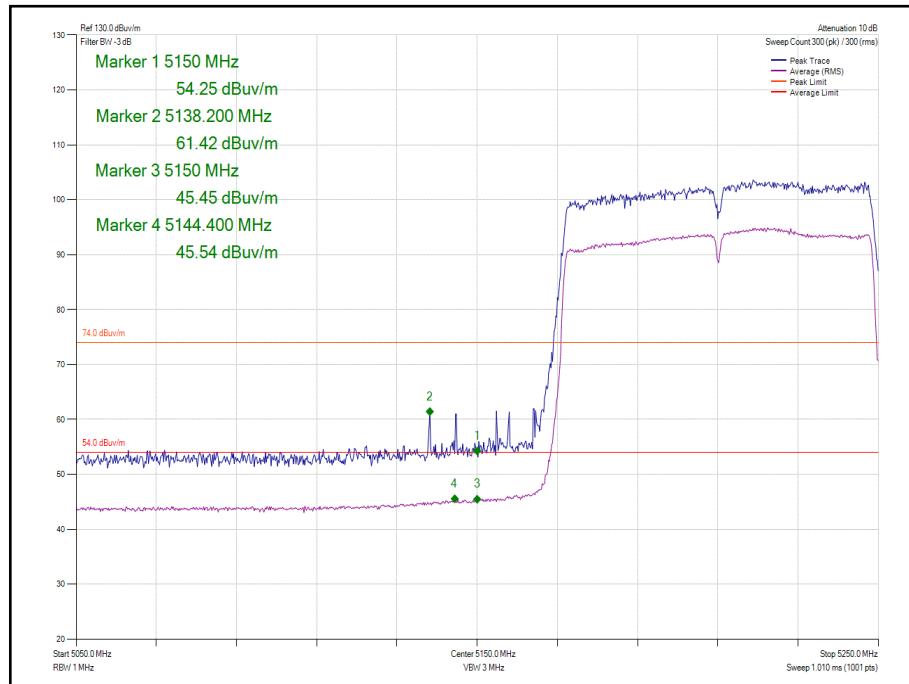
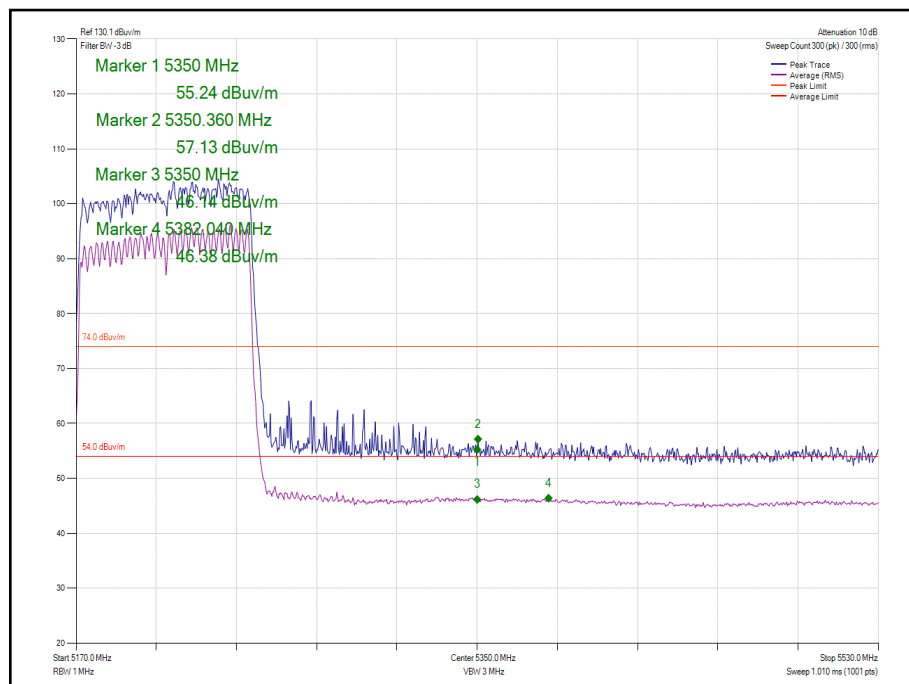


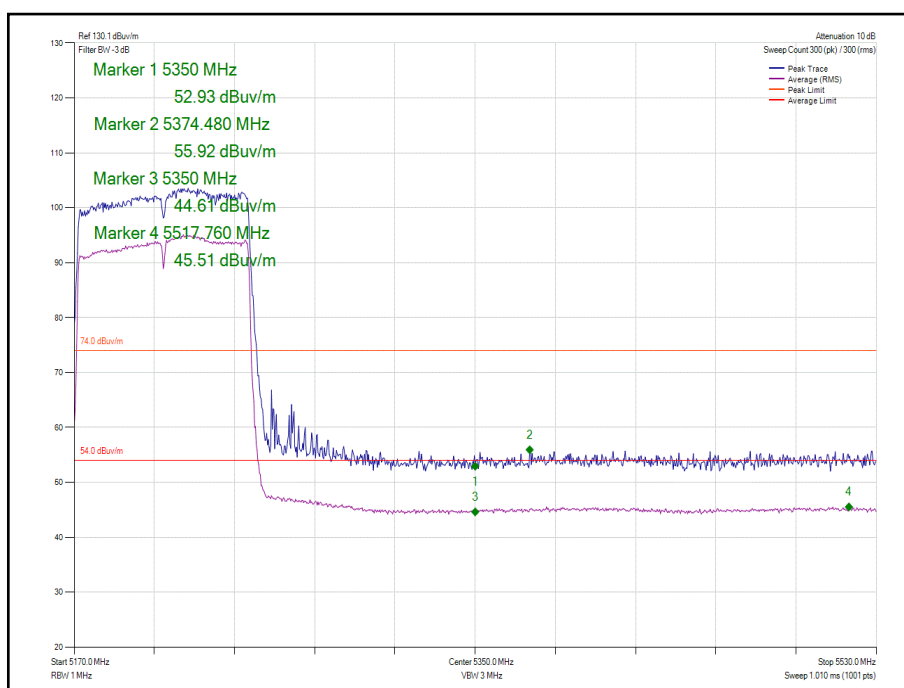
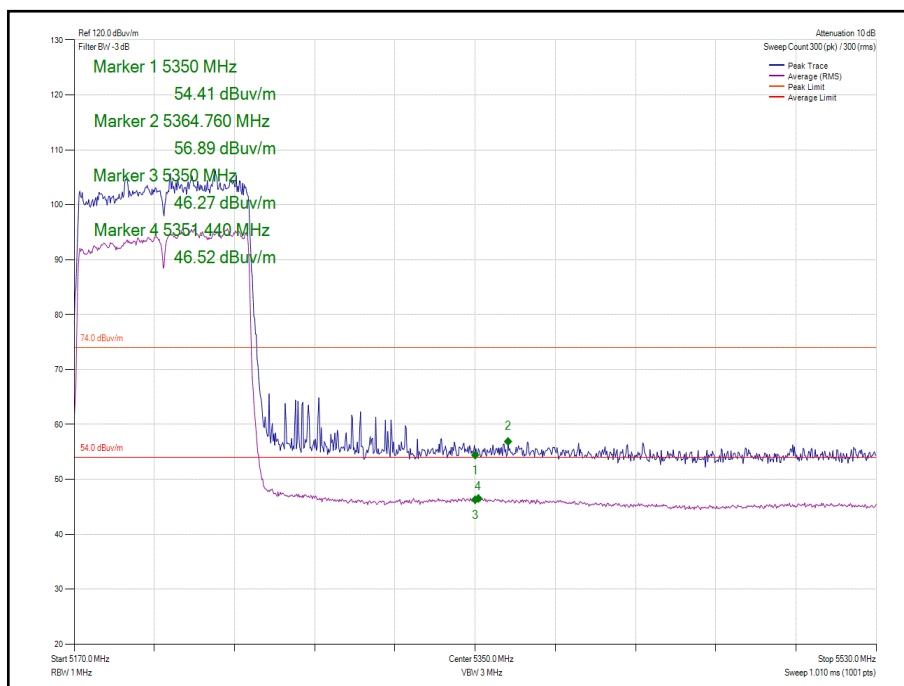
Figure 1113 - 802.11ac VHT80 SDM Cores 0-1 - 5210 MHz
Band Edge Frequency 5150 MHz



**Figure 1114 - 802.11ac VHT80 TxBF Cores 0-1 - 5210 MHz
 Band Edge Frequency 5150 MHz**



**Figure 1115 - 802.11ac VHT80 CDD Cores 0-1 - 5210 MHz
 Band Edge Frequency 5350 MHz**



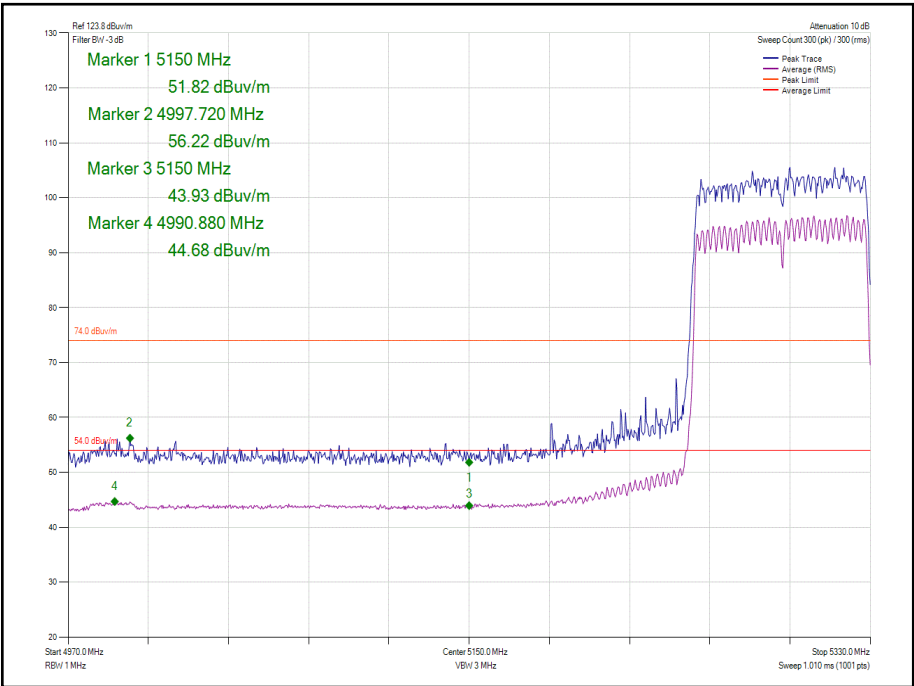


Figure 1118 - 802.11ac VHT80 CDD Cores 0-1 - 5290 MHz
Band Edge Frequency 5150 MHz

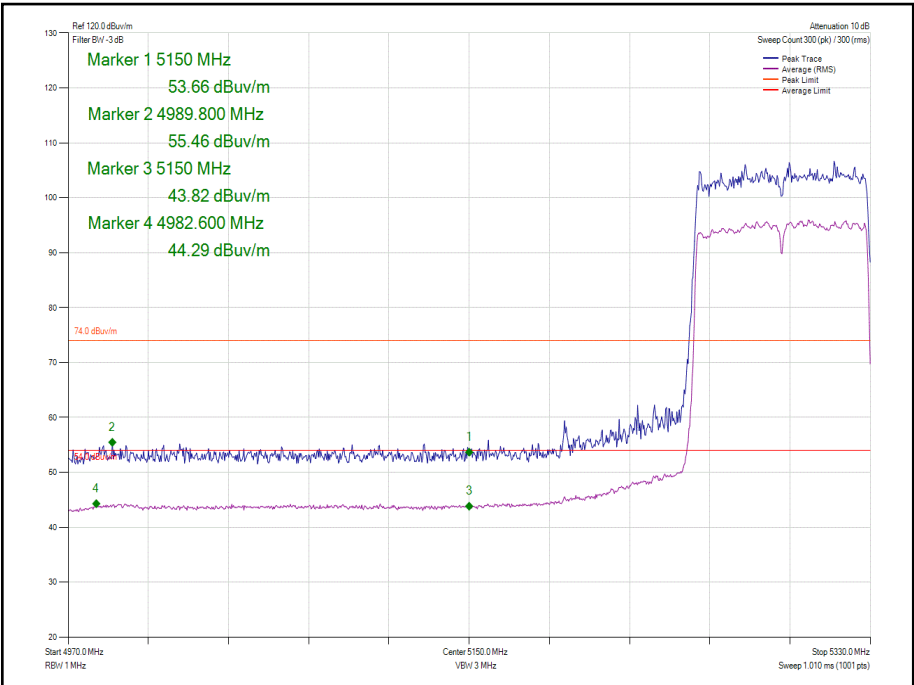


Figure 1119 - 802.11ac VHT80 SDM Cores 0-1 - 5290 MHz
Band Edge Frequency 5150 MHz

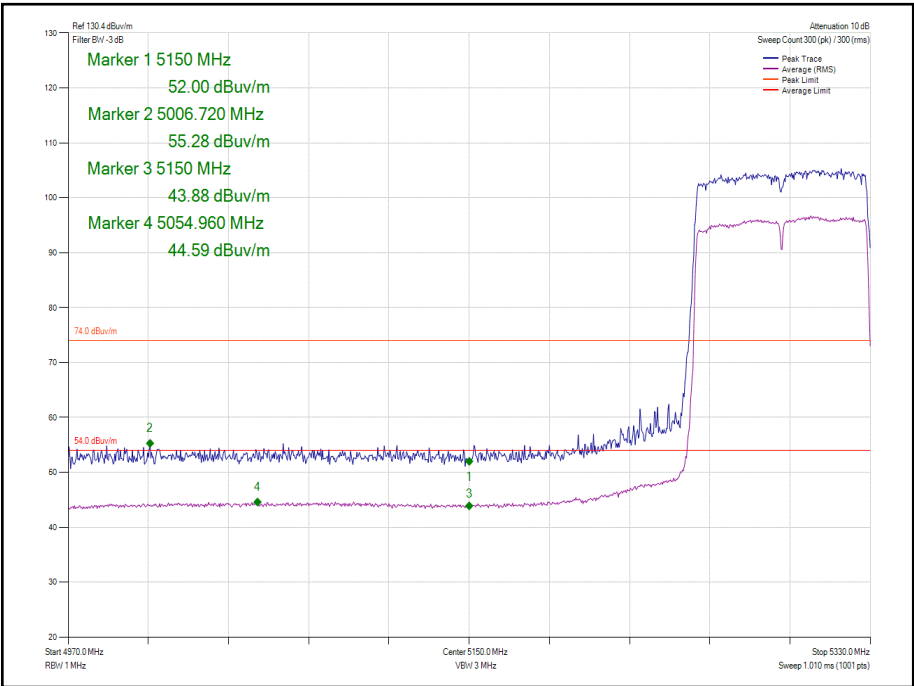


Figure 1120 - 802.11ac VHT80 TxBF Cores 0-1 - 5290 MHz
Band Edge Frequency 5150 MHz

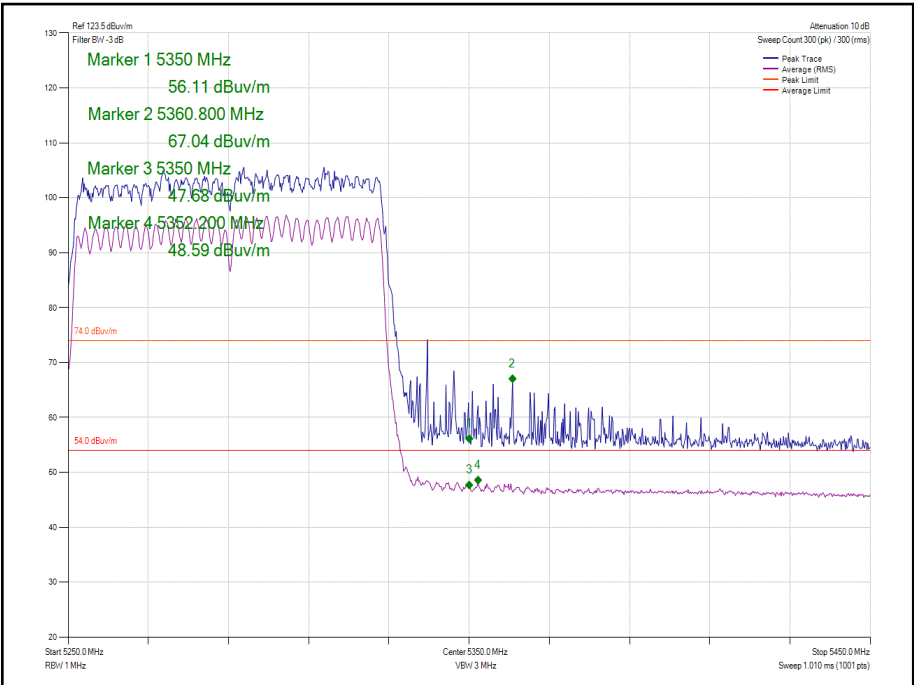
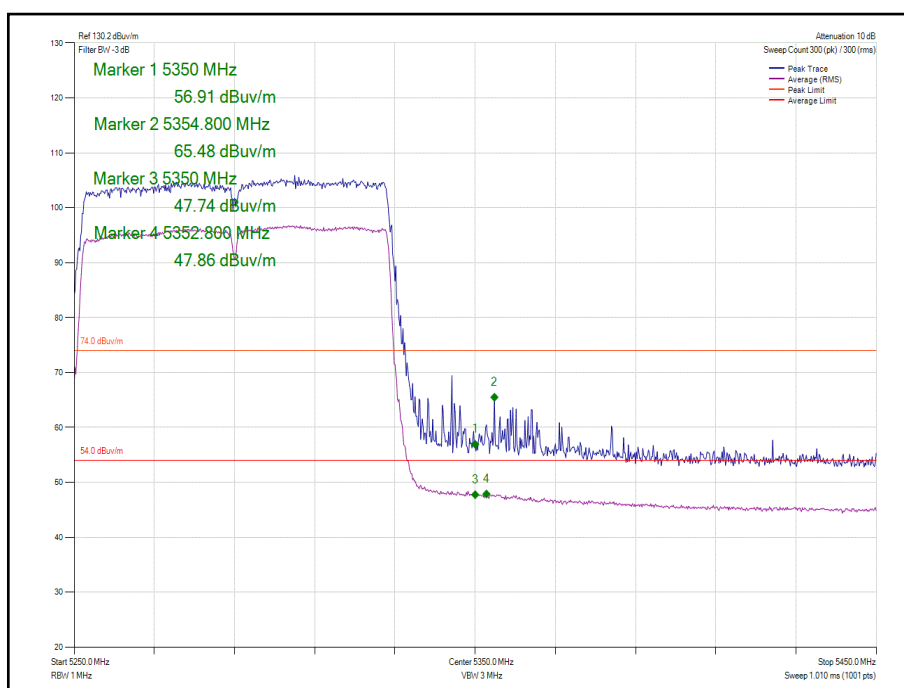
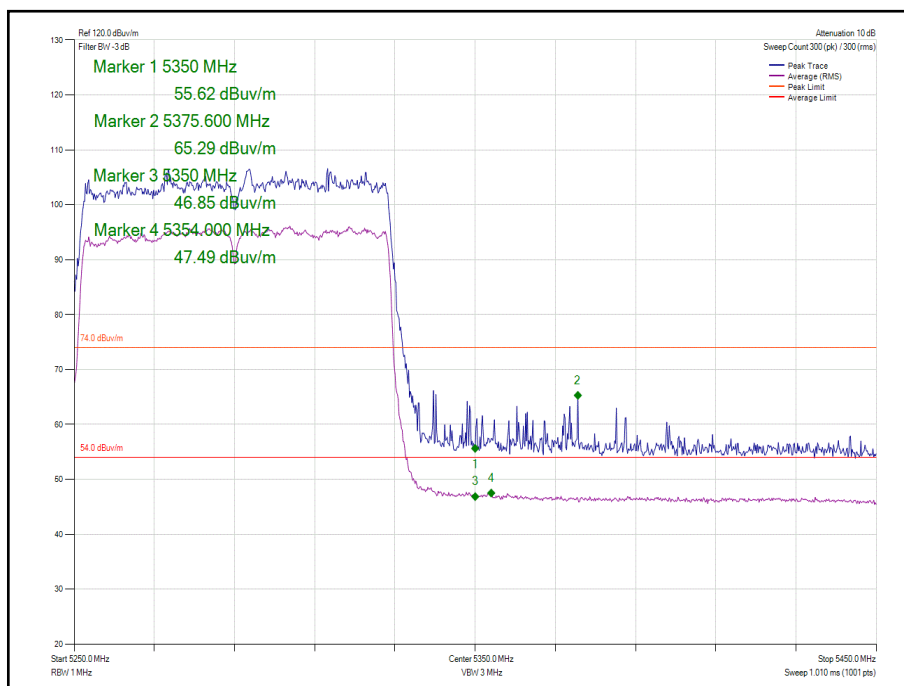
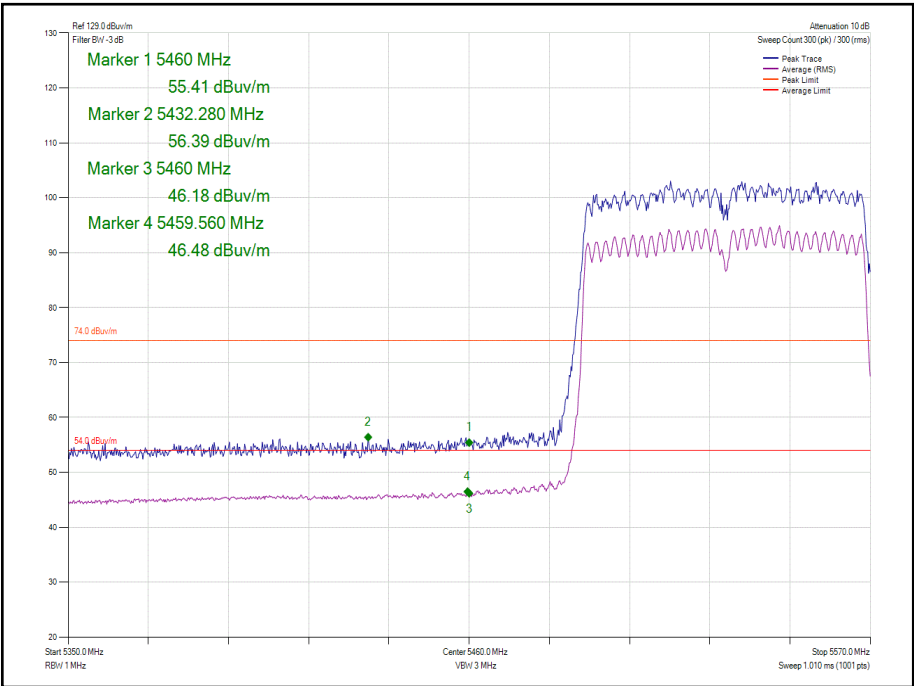
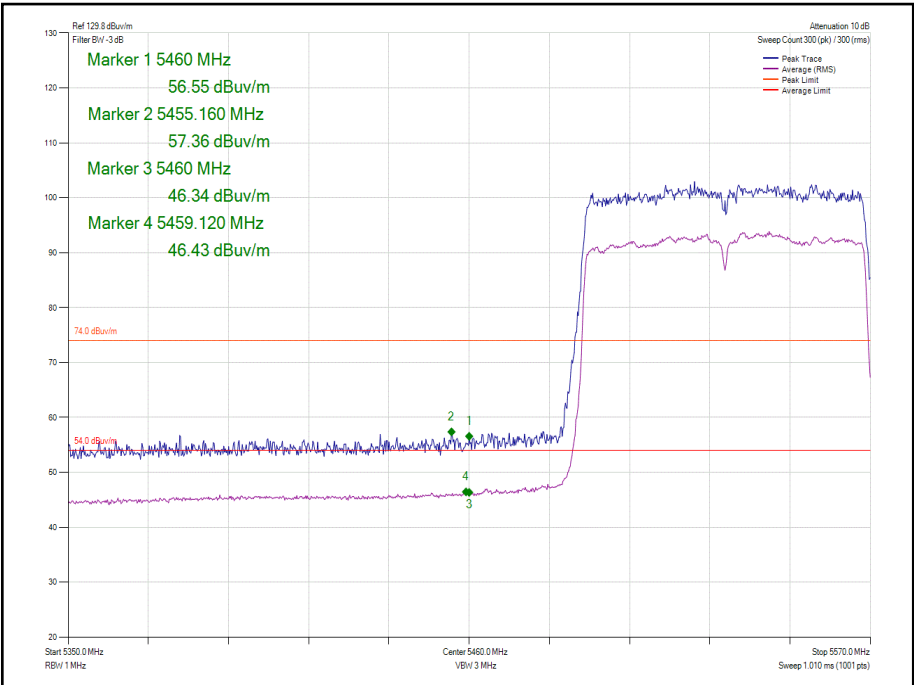


Figure 1121 - 802.11ac VHT80 CDD Cores 0-1 - 5290 MHz
Band Edge Frequency 5350 MHz





**Figure 1124 - 802.11ac VHT80 CDD Cores 0-1 - 5530 MHz
Band Edge Frequency 5460 MHz**



**Figure 1125 - 802.11ac VHT80 SDM Cores 0-1 - 5530 MHz
Band Edge Frequency 5460 MHz**