

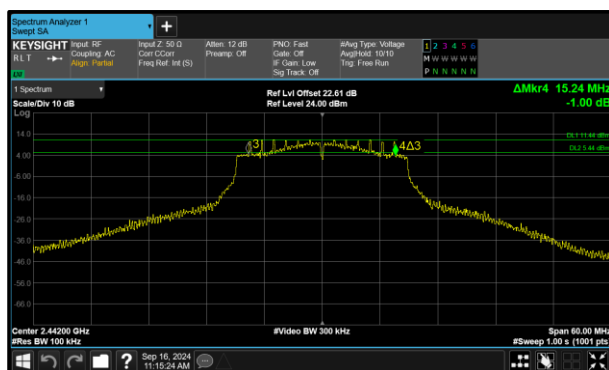


Figure 130 - 802.11n HT20 Minimum 6 dB EBW

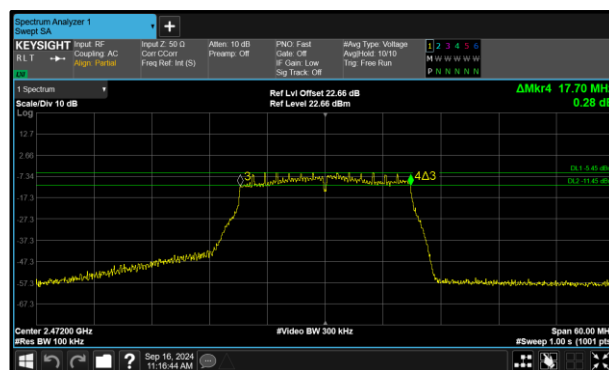


Figure 131 - 802.11n HT20 Maximum 6 dB EBW

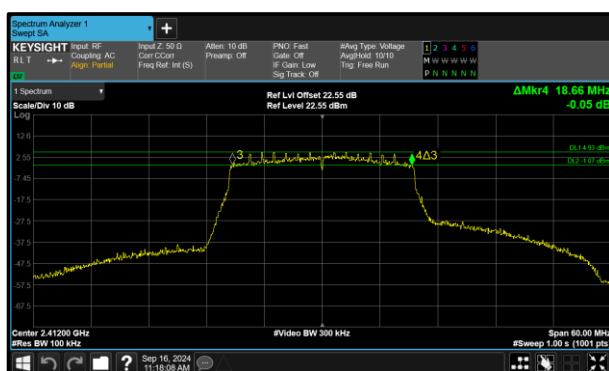


Figure 132 - 802.11ax HE20 SU Minimum 6 dB EBW

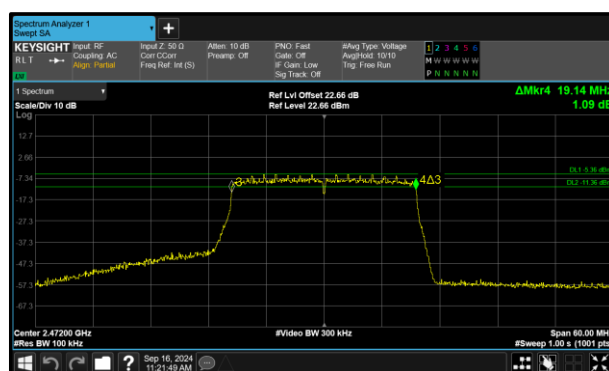


Figure 133 - 802.11ax HE20 SU Maximum 6 dB EBW

Protocol	99% Bandwidth (MHz)	
	Minimum	Maximum
802.11b	12.900	12.960
802.11g	16.440	16.620
802.11n HT20	17.640	17.700
802.11ax HE20 SU	18.900	18.960

Table 13 - 99% Bandwidth Summary Results - SISO

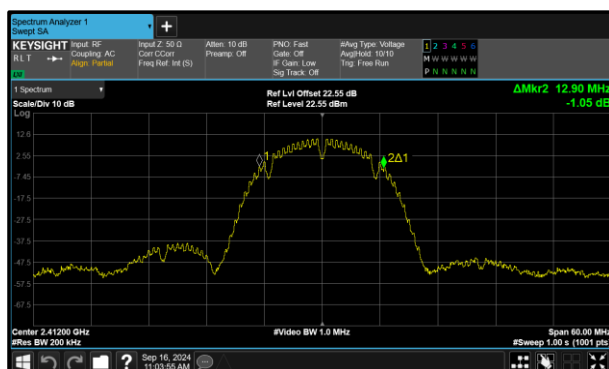


Figure 134 - 802.11b Minimum 99% OBW

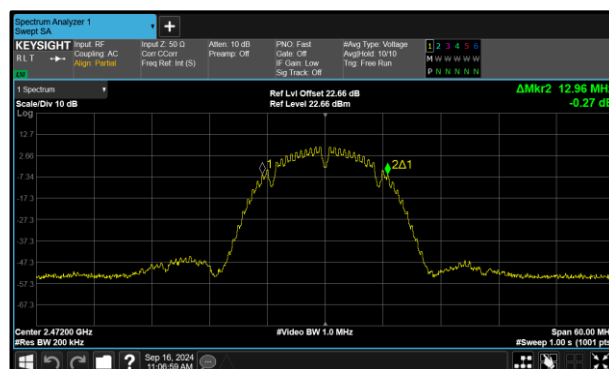


Figure 135 - 802.11b Maximum 99% OBW

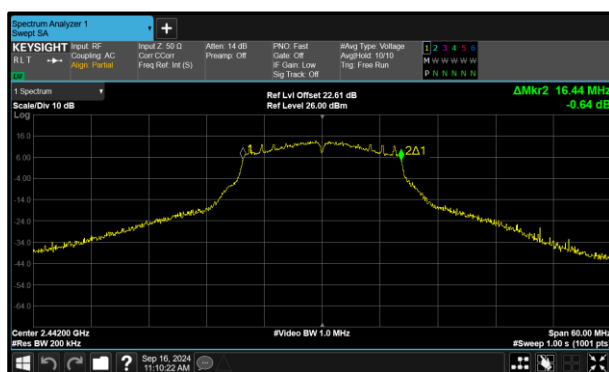


Figure 136 - 802.11g Minimum 99% OBW

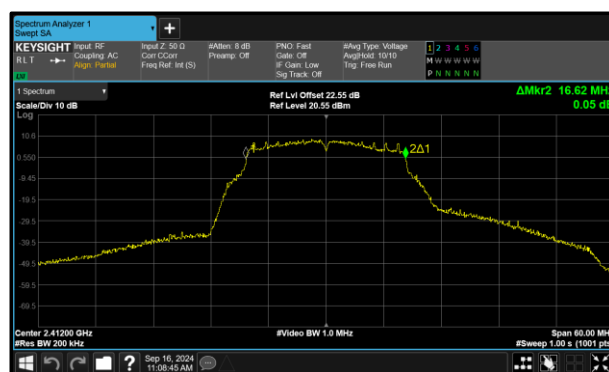


Figure 137 - 802.11g Maximum 99% OBW

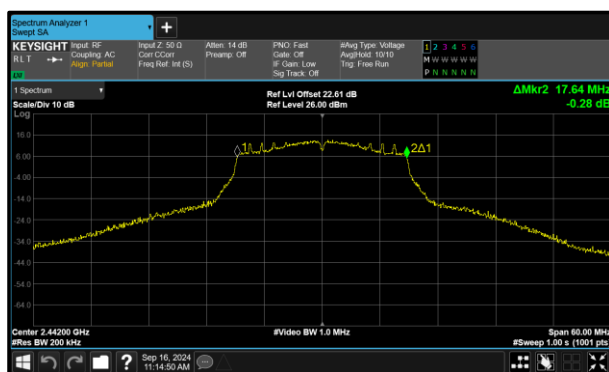


Figure 138 - 802.11n HT20 Minimum 99% OBW

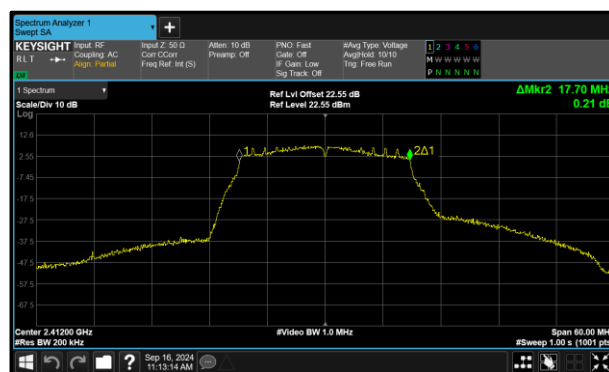


Figure 139 - 802.11n HT20 Maximum 99% OBW

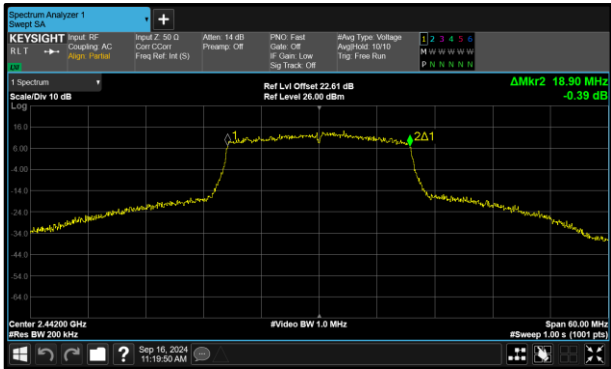


Figure 140 - 802.11ax HE20 SU Minimum 99% OBW

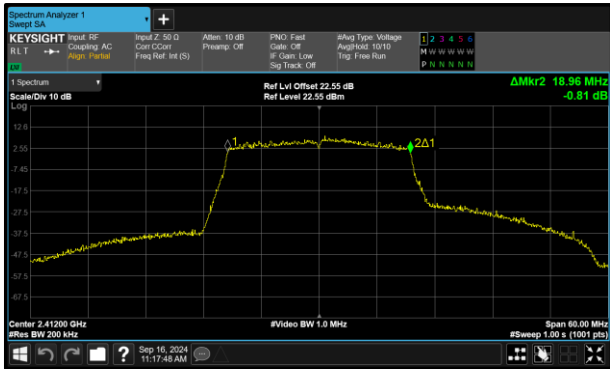


Figure 141 - 802.11ax HE20 SU Maximum 99% OBW



Protocol	6 dB Bandwidth (MHz)	
	Minimum	Maximum
802.11n HT20	15.300	17.700
802.11ax HE20 SU	18.240	19.080

Table 14 - 6 dB Bandwidth Summary Results - MIMO CDD

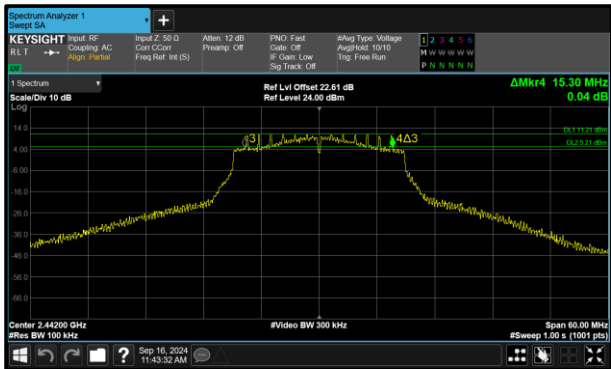


Figure 142 - 802.11n HT20 Minimum 6 dB EBW

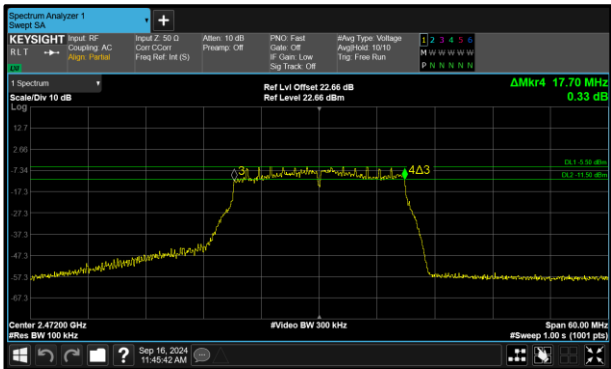


Figure 143 - 802.11n HT20 Maximum 6 dB EBW

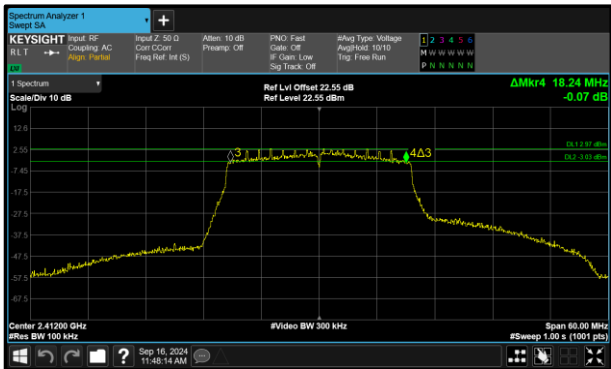


Figure 144 - 802.11ax HE20 SU Minimum 6 dB
EBW



Figure 145 - 802.11ax HE20 SU Maximum 6 dB
EBW



Protocol	99% Bandwidth (MHz)	
	Minimum	Maximum
802.11n HT20	17.580	17.700
802.11ax HE20 SU	18.960	19.020

Table 15 - 99% Bandwidth Summary Results - MIMO CDD

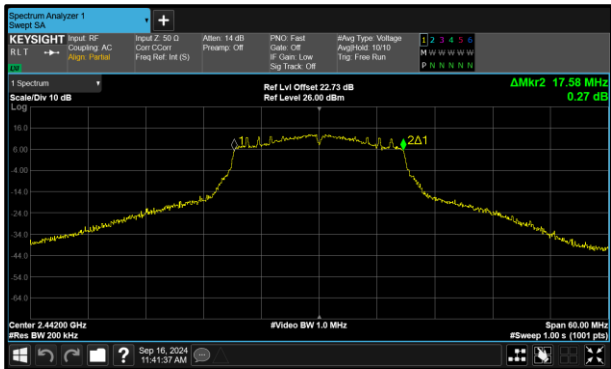


Figure 146 - 802.11n HT20 Minimum 99% OBW

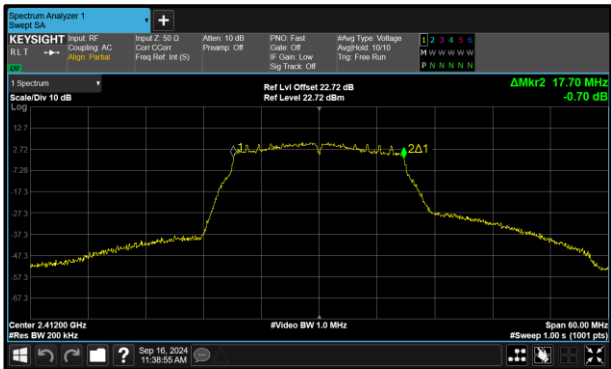


Figure 147 - 802.11n HT20 Maximum 99% OBW

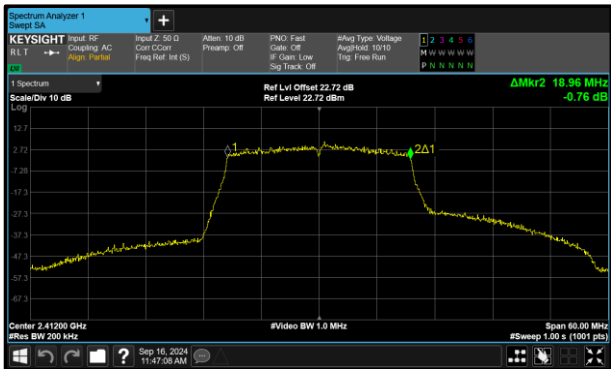


Figure 148 - 802.11ax HE20 SU Minimum 99% OBW

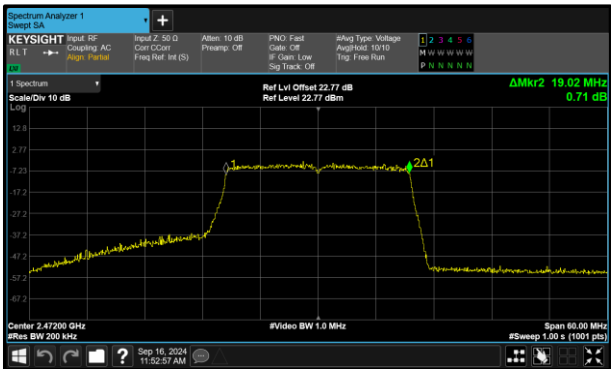


Figure 149 - 802.11ax HE20 SU Maximum 99% OBW



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	-	8.160	-	-	≥500.0
2442	-	9.120	-	-	≥500.0
2472	-	9.120	-	-	≥500.0

Table 16 - 6 dB Bandwidth Results

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

Table 17 - 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	-	15.540	-	-	≥500.0
2442	-	15.240	-	-	≥500.0
2472	-	16.500	-	-	≥500.0

Table 18 - 6 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
2412	-	16.620	-	-	-
2442	-	16.440	-	-	-
2472	-	16.560	-	-	-

Table 19 - 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	-	16.140	-	-	≥500.0
2442	-	15.240	-	-	≥500.0
2472	-	17.700	-	-	≥500.0

Table 20 - 6 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
2412	-	17.700	-	-	-
2442	-	17.640	-	-	-
2472	-	17.700	-	-	-

Table 21 - 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	-	18.660	-	-	≥500.0
2442	-	18.900	-	-	≥500.0
2472	-	19.140	-	-	≥500.0

Table 22 - 6 dB Bandwidth Results

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

Table 23 - 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:	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	16.080	16.980	-	-	≥500.0
2442	15.780	15.300	-	-	≥500.0
2472	17.400	17.700	-	-	≥500.0

Table 24 - 6 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
2412	17.700	17.700	-	-	-
2442	17.580	17.640	-	-	-
2472	17.700	17.700	-	-	-

Table 25 - 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	18.720	18.240	-	-	≥500.0
2437	18.780	18.780	-	-	≥500.0
2472	19.020	19.080	-	-	≥500.0

Table 26 - 6 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
2412	18.960	18.960	-	-	-
2437	18.960	18.960	-	-	-
2472	19.020	18.960	-	-	-

Table 27 - 99% Bandwidth Results

FCC 47 CFR Part 15, Limit Clause 15.247(a)(2)

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 Chamber 18.

Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Expiry Date
Hygrometer	Rotronic	I-1000	3068	12	07-Nov-2024
AC Programmable Power Supply	iTech	IT7324	5225	-	O/P Mon
MXA Signal Analyser	Keysight Technologies	N9020B	5529	24	13-Dec-2024
Digital Multimeter	Fluke	115	6145	12	06-Jun-2025
Signal Conditioning Unit	TUV SUD	SPECTRUM_SCU001	6426	12	07-Feb-2025
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6752	12	06-Feb-2025
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6753	12	06-Feb-2025

Table 28

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)

2.3.2 Equipment Under Test and Modification State

A3185, S/N: GRJJT9QH7L - Modification State 0

2.3.3 Date of Test

16-September-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 v02r01 F)2)f(i) and 662911 D01 v02r01 E)1).

2.3.5 Environmental Conditions

Ambient Temperature 22.2 °C

Relative Humidity 54.6 %



2.3.6 Test Results

2.4 GHz WLAN

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):	4.80
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	-	18.76	-	-	18.76	30.00	-11.24
2442	-	18.88	-	-	18.88	30.00	-11.12
2472	-	14.82	-	-	14.82	30.00	-15.18

Table 29 - 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	-	18.76	-	-	18.76	30.00	-11.24	23.56	36.00	-12.44
2442	-	18.88	-	-	18.88	30.00	-11.12	23.68	36.00	-12.32
2472	-	14.82	-	-	14.82	30.00	-15.18	19.62	36.00	-16.38

Table 30 - 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 (%):	97.8
Data Rate:	12 Mbps	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	4.80
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	-	17.97	-	-	17.97	30.00	-12.03
2442	-	22.38	-	-	22.38	30.00	-7.62
2472	-	6.90	-	-	6.90	30.00	-23.10

Table 31 - 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	-	17.97	-	-	17.97	30.00	-12.03	22.77	36.00	-13.23
2442	-	22.38	-	-	22.38	30.00	-7.62	27.18	36.00	-8.82
2472	-	6.90	-	-	6.90	30.00	-23.10	11.70	36.00	-24.30

Table 32 - 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:	802.11n HT20	Duty Cycle (%):	96.9
Modulation Coding Scheme:	MCS2	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	4.80
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	-	16.77	-	-	16.77	30.00	-13.23
2442	-	22.40	-	-	22.40	30.00	-7.60
2472	-	6.15	-	-	6.15	30.00	-23.85

Table 33 - 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	-	16.77	-	-	16.77	30.00	-13.23	21.57	36.00	-14.43
2442	-	22.40	-	-	22.40	30.00	-7.60	27.20	36.00	-8.80
2472	-	6.15	-	-	6.15	30.00	-23.85	10.95	36.00	-25.05

Table 34 - 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:	802.11ax HE20 SU	Duty Cycle (%):	96.0
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	4.80
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	-	16.00	-	-	16.00	30.00	-14.00
2442	-	22.22	-	-	22.22	30.00	-7.78
2472	-	6.02	-	-	6.02	30.00	-23.98

Table 35 - 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	-	16.00	-	-	16.00	30.00	-14.00	20.80	36.00	-15.20
2442	-	22.22	-	-	22.22	30.00	-7.78	27.02	36.00	-8.98
2472	-	6.02	-	-	6.02	30.00	-23.98	10.82	36.00	-25.18

Table 36 - 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:	802.11ax HE20 RU26	Duty Cycle (%):	96.7
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	4.80
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	-	14.38	-	-	14.38	30.00	-15.62
2442	-	14.45	-	-	14.45	30.00	-15.55
2472	-	-5.45	-	-	-5.45	30.00	-35.45

Table 37 - 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	-	14.38	-	-	14.38	30.00	-15.62	19.18	36.00	-16.82
2442	-	14.45	-	-	14.45	30.00	-15.55	19.25	36.00	-16.75
2472	-	-5.45	-	-	-5.45	30.00	-35.45	-0.65	36.00	-36.65

Table 38 - 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:	802.11ax HE20 RU52	Duty Cycle (%):	96.5
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	4.80
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	-	17.49	-	-	17.49	30.00	-12.51
2442	-	17.33	-	-	17.33	30.00	-12.67
2472	-	-2.47	-	-	-2.47	30.00	-32.47

Table 39 - 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	-	17.49	-	-	17.49	30.00	-12.51	22.29	36.00	-13.71
2442	-	17.33	-	-	17.33	30.00	-12.67	22.13	36.00	-13.87
2472	-	-2.47	-	-	-2.47	30.00	-32.47	2.33	36.00	-33.67

Table 40 - 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:	802.11ax HE20 RU106	Duty Cycle (%):	98.0
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	4.80
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	-	17.21	-	-	17.21	30.00	-12.79
2442	-	20.35	-	-	20.35	30.00	-9.65
2472	-	-1.47	-	-	-1.47	30.00	-31.47

Table 41 - 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	-	17.21	-	-	17.21	30.00	-12.79	22.01	36.00	-13.99
2442	-	20.35	-	-	20.35	30.00	-9.65	25.15	36.00	-10.85
2472	-	-1.47	-	-	-1.47	30.00	-31.47	3.33	36.00	-32.67

Table 42 - 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):	662911 D01 v02r01 F)2)f(i), 662911 D01 v02r01 E)1)		

DUT Configuration			
Mode:	802.11n HT20	Duty Cycle (%):	96.6
Modulation Coding Scheme:	MCS2	DCCF (dB):	-
Antenna Configuration:	MIMO CDD	Peak Antenna Gain (dBi):	4.80
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain(s):	0+1

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	Σ		
2412	15.13	15.36	-	-	18.26	30.00	-11.74
2442	22.09	22.28	-	-	25.20	30.00	-4.80
2472	5.81	5.96	-	-	8.90	30.00	-21.10

Table 43 - 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	15.13	15.36	-	-	18.26	30.00	-11.74	23.06	36.00	-12.94
2442	22.09	22.28	-	-	25.20	30.00	-4.80	30.00	36.00	-6.00
2472	5.81	5.96	-	-	8.90	30.00	-21.10	13.70	36.00	-22.30

Table 44 - 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):	662911 D01 v02r01 F)2)f)(i), 662911 D01 v02r01 E)1)		

DUT Configuration			
Mode:	802.11ax HE20 SU	Duty Cycle (%):	95.8
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	MIMO CDD	Peak Antenna Gain (dBi):	4.80
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain(s):	0+1

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	Σ		
2412	13.82	14.12	-	-	16.98	30.00	-13.02
2437	21.96	22.17	-	-	25.08	30.00	-4.92
2472	5.95	5.86	-	-	8.91	30.00	-21.09

Table 45 - 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	13.82	14.12	-	-	16.98	30.00	-13.02	21.78	36.00	-14.22
2437	21.96	22.17	-	-	25.08	30.00	-4.92	29.88	36.00	-6.12
2472	5.95	5.86	-	-	8.91	30.00	-21.09	13.71	36.00	-22.29

Table 46 - 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):	662911 D01 v02r01 F)2)f(i), 662911 D01 v02r01 E)1)		

DUT Configuration			
Mode:	802.11ax HE20 RU26	Duty Cycle (%):	96.5
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	MIMO CDD	Peak Antenna Gain (dBi):	4.80
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain(s):	0+1

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	Σ		
2412	13.99	14.40	-	-	17.21	30.00	-12.79
2442	14.20	14.31	-	-	17.27	30.00	-12.73
2472	-8.92	-8.97	-	-	-5.94	30.00	-35.94

Table 47 - 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	13.99	14.40	-	-	17.21	30.00	-12.79	22.01	36.00	-13.99
2442	14.20	14.31	-	-	17.27	30.00	-12.73	22.07	36.00	-13.93
2472	-8.92	-8.97	-	-	-5.94	30.00	-35.94	-1.14	36.00	-37.14

Table 48 - 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):	662911 D01 v02r01 F)2)f(i), 662911 D01 v02r01 E)1)		

DUT Configuration			
Mode:	802.11ax HE20 RU52	Duty Cycle (%):	96.4
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	MIMO CDD	Peak Antenna Gain (dBi):	4.80
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain(s):	0+1

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	Σ		
2412	17.08	17.24	-	-	20.17	30.00	-9.83
2442	17.15	17.23	-	-	20.20	30.00	-9.80
2472	-8.58	-8.41	-	-	-5.48	30.00	-35.48

Table 49 - 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	17.08	17.24	-	-	20.17	30.00	-9.83	24.97	36.00	-11.03
2442	17.15	17.23	-	-	20.20	30.00	-9.80	25.00	36.00	-11.00
2472	-8.58	-8.41	-	-	-5.48	30.00	-35.48	-0.68	36.00	-36.68

Table 50 - 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):	662911 D01 v02r01 F)2)f(i), 662911 D01 v02r01 E)1)		

DUT Configuration			
Mode:	802.11ax HE20 RU106	Duty Cycle (%):	97.8
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	MIMO CDD	Peak Antenna Gain (dBi):	4.80
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain(s):	0+1

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	Σ		
2412	15.23	15.25	-	-	18.25	30.00	-11.75
2442	20.47	20.21	-	-	23.35	30.00	-6.65
2472	-5.21	-5.29	-	-	-2.24	30.00	-32.24

Table 51 - 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	15.23	15.25	-	-	18.25	30.00	-11.75	23.05	36.00	-12.95
2442	20.47	20.21	-	-	23.35	30.00	-6.65	28.15	36.00	-7.85
2472	-5.21	-5.29	-	-	-2.24	30.00	-32.24	2.56	36.00	-33.44

Table 52 - ISSED Maximum Conducted (average) Output Power Results

FCC 47 CFR Part 15, Limit Clause 15.247 (b)(3)

For systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt.



2.3.7 Test Location and Test Equipment Used

This test was carried out in RF Chamber 18.

Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Expiry Date
Hygrometer	Rotronic	I-1000	3068	12	07-Nov-2024
AC Programmable Power Supply	iTech	IT7324	5225	-	O/P Mon
USB Power Sensor	Boonton	RTP5008	5820	12	07-Feb-2025
USB Power Sensor	Boonton	RTP5008	5821	12	07-Feb-2025
Digital Multimeter	Fluke	115	6145	12	06-Jun-2025
Signal Conditioning Unit	TUV SUD	SPECTRUM_SCU001	6426	12	07-Feb-2025
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6752	12	06-Feb-2025
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6753	12	06-Feb-2025

Table 53

O/P Mon - Output Monitored using calibrated equipment



2.4 Authorised Band Edges

2.4.1 Specification Reference

FCC 47 CFR Part 15C, Clause 15.247 (d)

2.4.2 Equipment Under Test and Modification State

A3185, S/N: LD12H296C1 - Modification State 0
A3185, S/N: FWGHH4D25Q - Modification State 0

2.4.3 Date of Test

01-August-2024 to 08-August-2024

2.4.4 Test Method

The test was performed in accordance with ANSI C63.10, clause 6.10.4.

2.4.5 Environmental Conditions

Ambient Temperature	22.4 - 23.0 °C
Relative Humidity	42.6 - 46.0 %



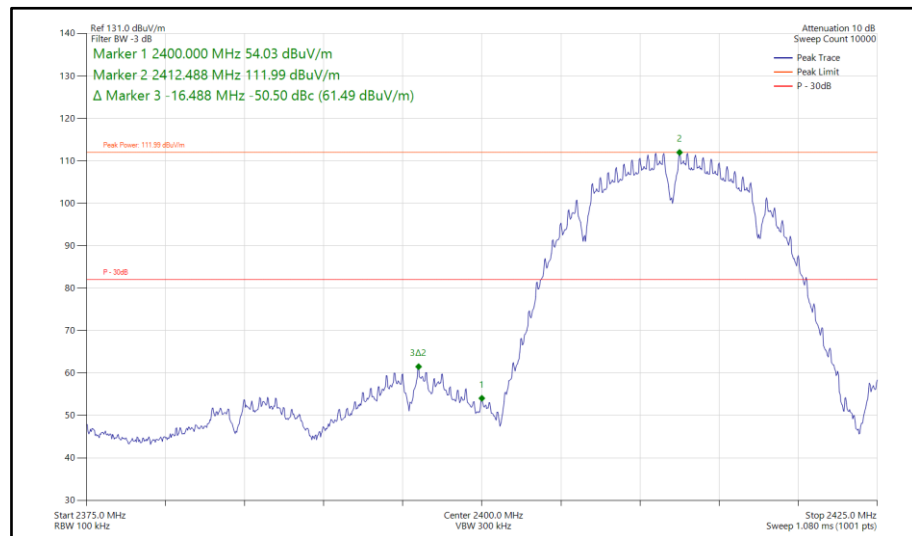
2.4.6 Test Results

2.4 GHz WLAN

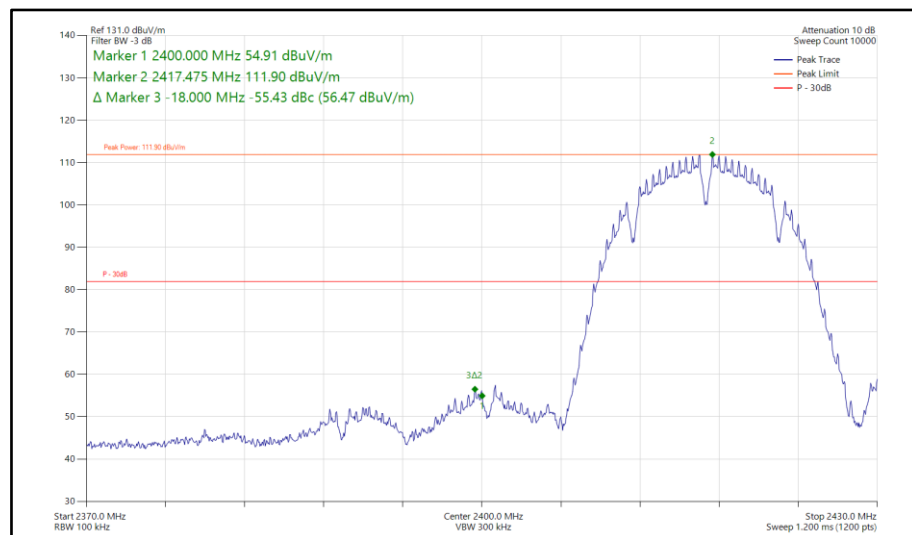
20 MHz Bandwidth - Core 0 (SISO)

Mode	Data Rate/ MCS	Resource Size	Resource Index	TX Frequency (MHz)	Band Edge Frequency (MHz)	Level (dBc)
802.11b	1 Mbps	-	-	2412	2400	-50.50
802.11b	1 Mbps	-	-	2417	2400	-55.43
802.11g	54 Mbps	-	-	2412	2400	-35.11
802.11g	54 Mbps	-	-	2417	2400	-34.56
802.11g	54 Mbps	-	-	2422	2400	-40.60
802.11g	54 Mbps	-	-	2427	2400	-46.47
802.11g	54 Mbps	-	-	2432	2400	-49.28
802.11n HT20	MCS7	-	-	2412	2400	-34.77
802.11n HT20	MCS7	-	-	2417	2400	-34.64
802.11n HT20	MCS7	-	-	2422	2400	-38.46
802.11n HT20	MCS7	-	-	2427	2400	-45.72
802.11n HT20	MCS7	-	-	2432	2400	-48.81
802.11ax HE20	MCS9x1	SU	-	2412	2400	-34.53
802.11ax HE20	MCS9x1	106	53	2412	2400	-38.73
802.11ax HE20	MCS9x1	SU	-	2417	2400	-35.42
802.11ax HE20	MCS9x1	106	53	2417	2400	-47.39
802.11ax HE20	MCS9x1	SU	-	2422	2400	-36.18
802.11ax HE20	MCS9x1	SU	-	2427	2400	-43.52
802.11ax HE20	MCS9x1	SU	-	2432	2400	-47.84

Table 54 - SISO Authorised Band Edge Results



**Figure 150 - 802.11b, SISO, Core 0 - 2412 MHz
Band Edge Frequency 2400 MHz**



**Figure 151 - 802.11b, SISO, Core 0 - 2417 MHz
Band Edge Frequency 2400 MHz**

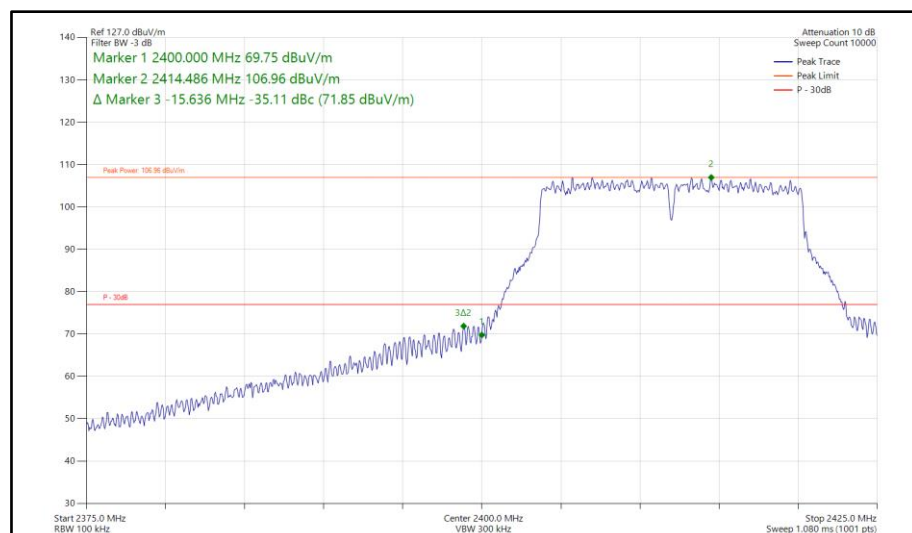




Figure 152 - 802.11g, SISO, Core 0 - 2412 MHz
Band Edge Frequency 2400 MHz

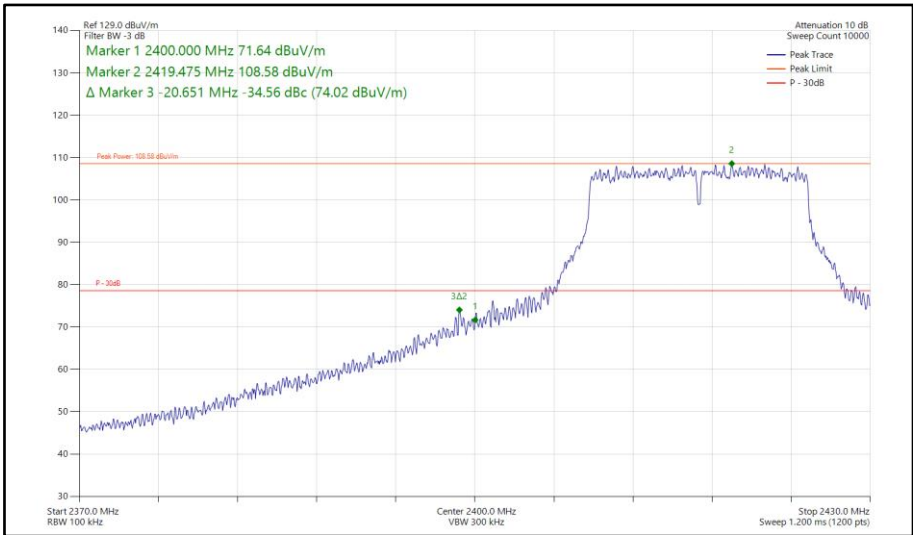


Figure 153 - 802.11g, SISO, Core 0 - 2417 MHz
Band Edge Frequency 2400 MHz

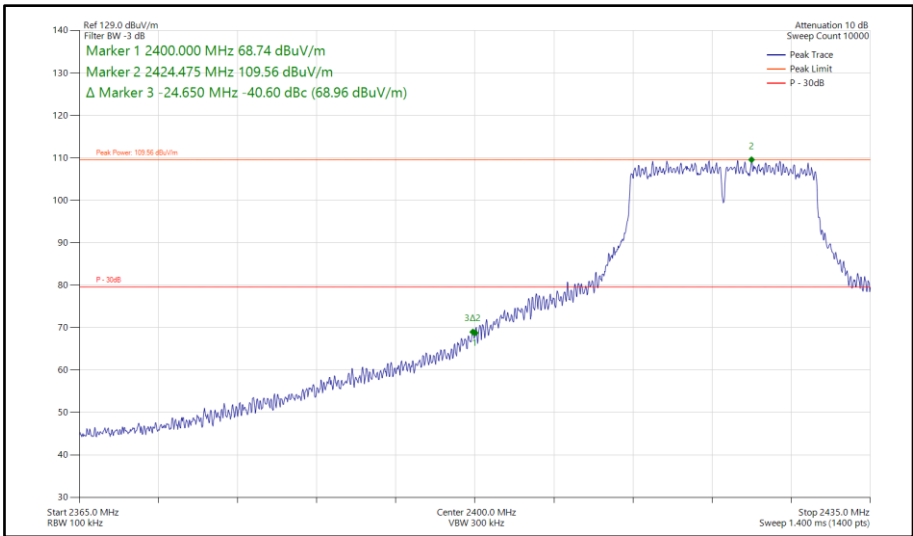
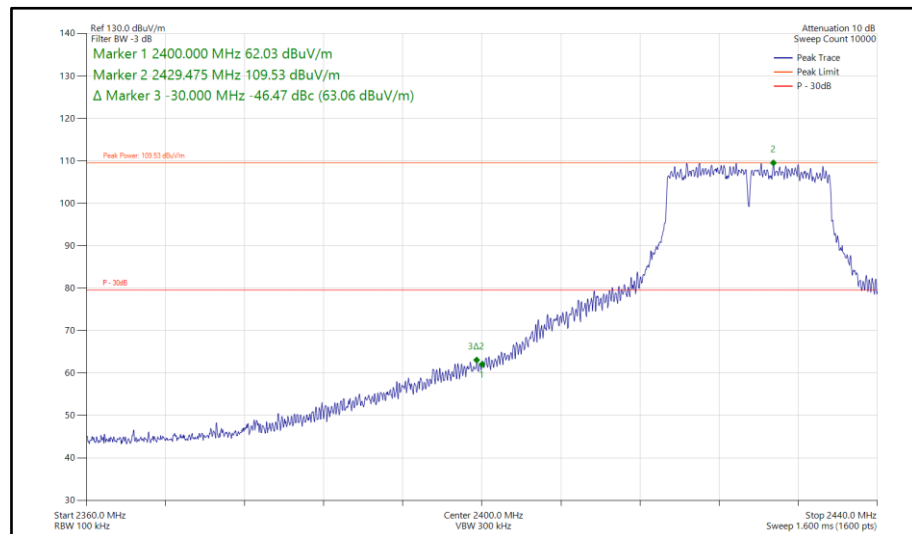
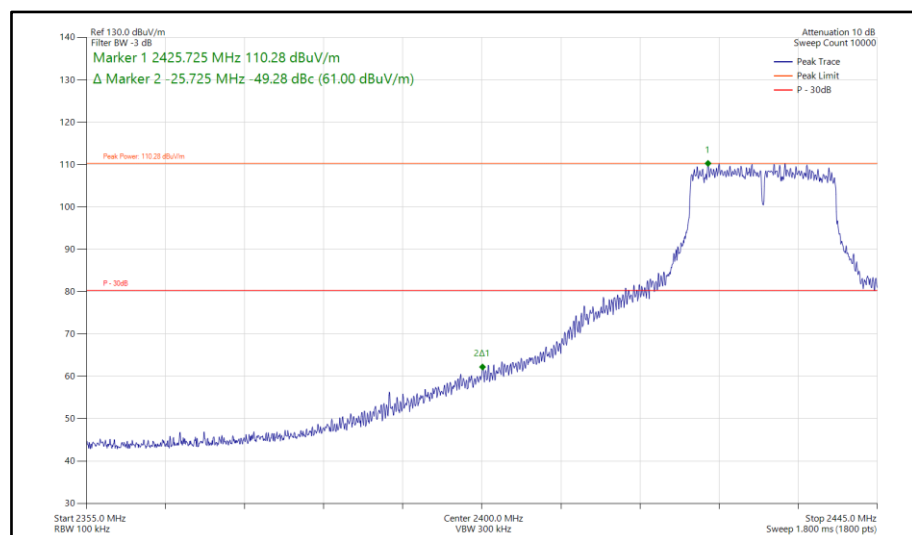


Figure 154 - 802.11g, SISO, Core 0 - 2422 MHz
Band Edge Frequency 2400 MHz



**Figure 155 - 802.11g, SISO, Core 0 - 2427 MHz
Band Edge Frequency 2400 MHz**



**Figure 156 - 802.11g, SISO, Core 0 - 2432 MHz
Band Edge Frequency 2400 MHz**

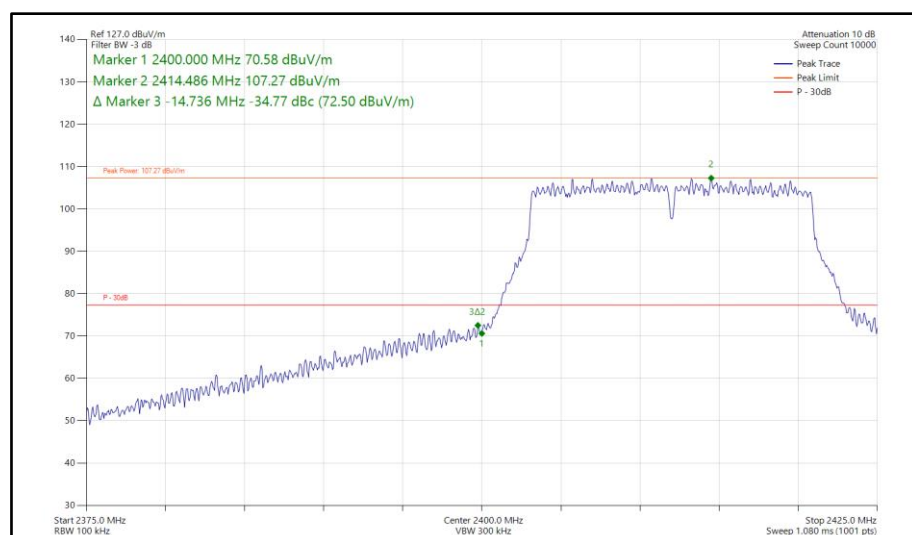




Figure 157 - 802.11n HT20, SISO, Core 0 - 2412 MHz
Band Edge Frequency 2400 MHz

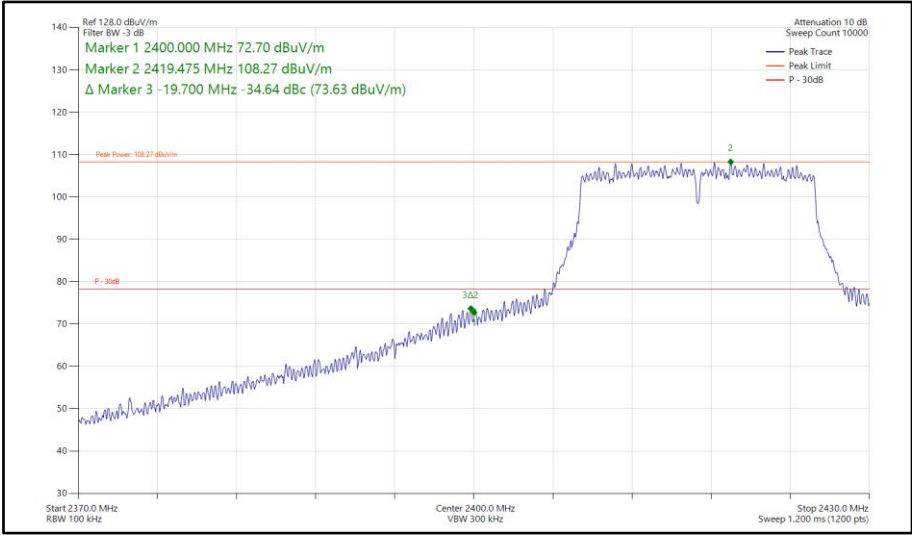


Figure 158 - 802.11n HT20, SISO, Core 0 - 2417 MHz
Band Edge Frequency 2400 MHz

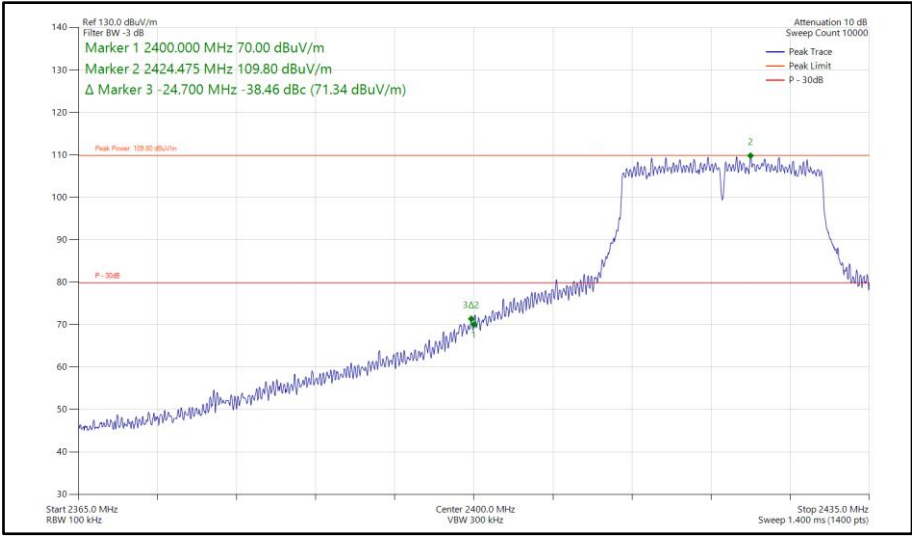
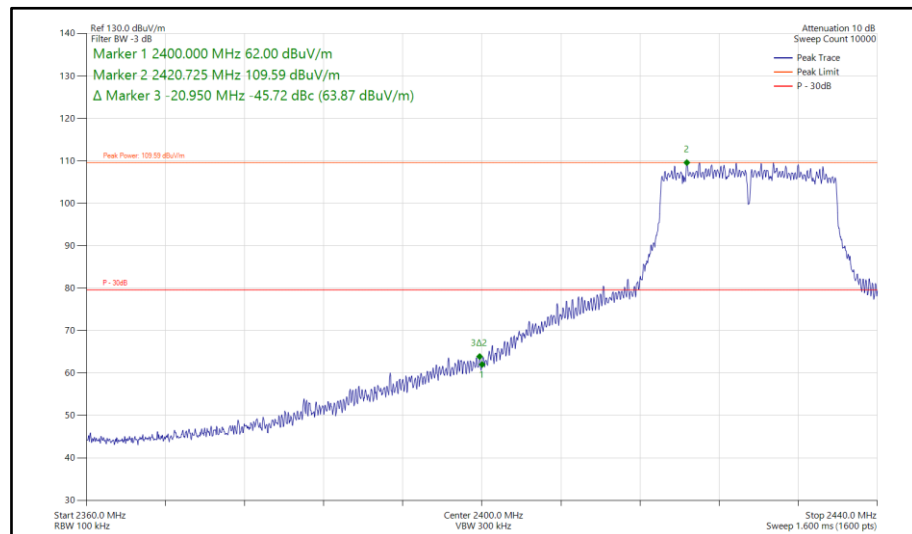
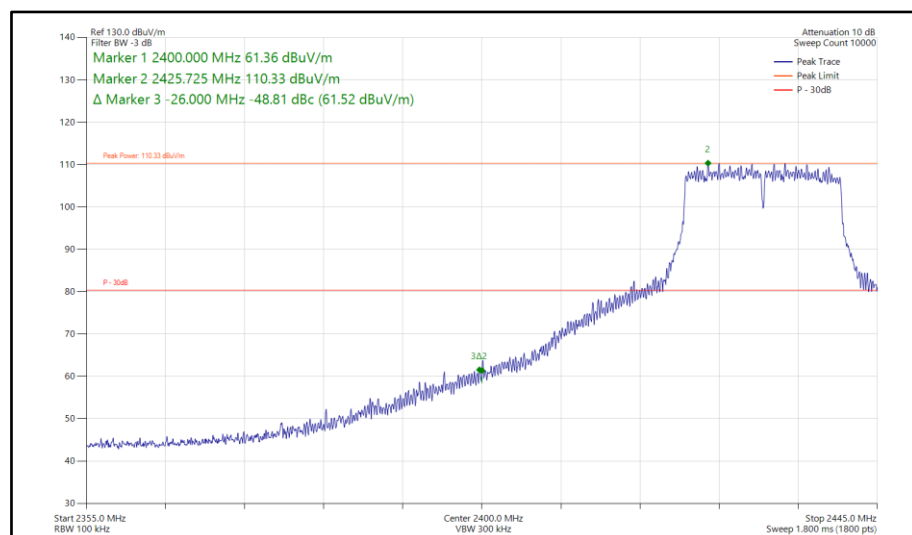


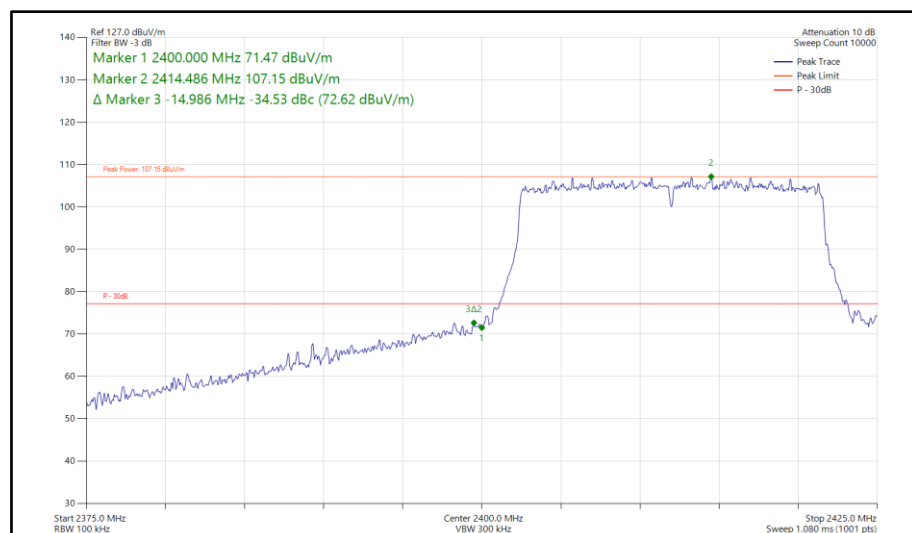
Figure 159 - 802.11n HT20, SISO, Core 0 - 2422 MHz
Band Edge Frequency 2400 MHz



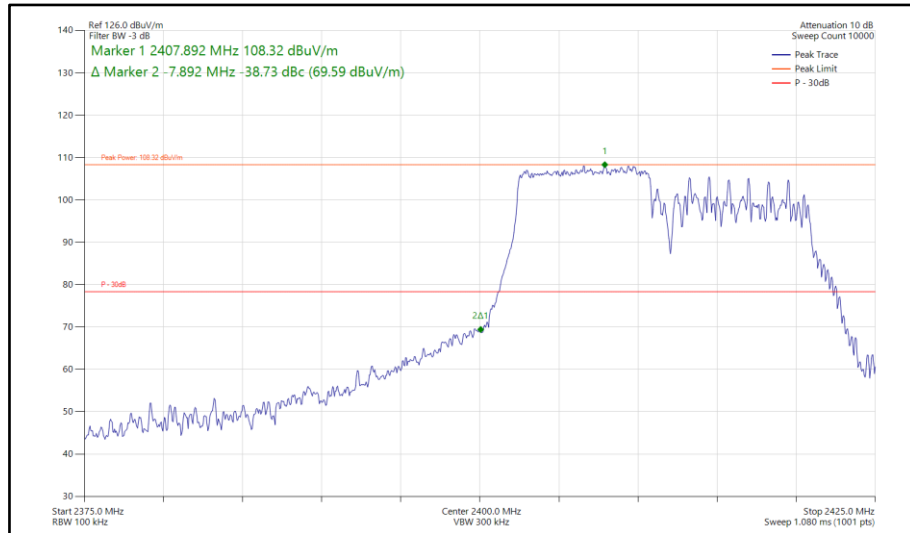
**Figure 160 - 802.11n HT20, SISO, Core 0 - 2427 MHz
Band Edge Frequency 2400 MHz**



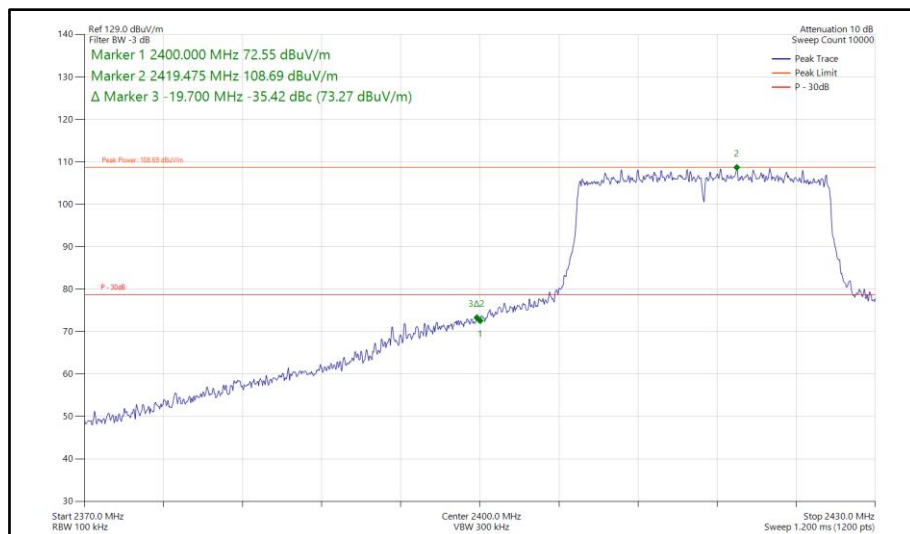
**Figure 161 - 802.11n HT20, SISO, Core 0 - 2432 MHz
Band Edge Frequency 2400 MHz**



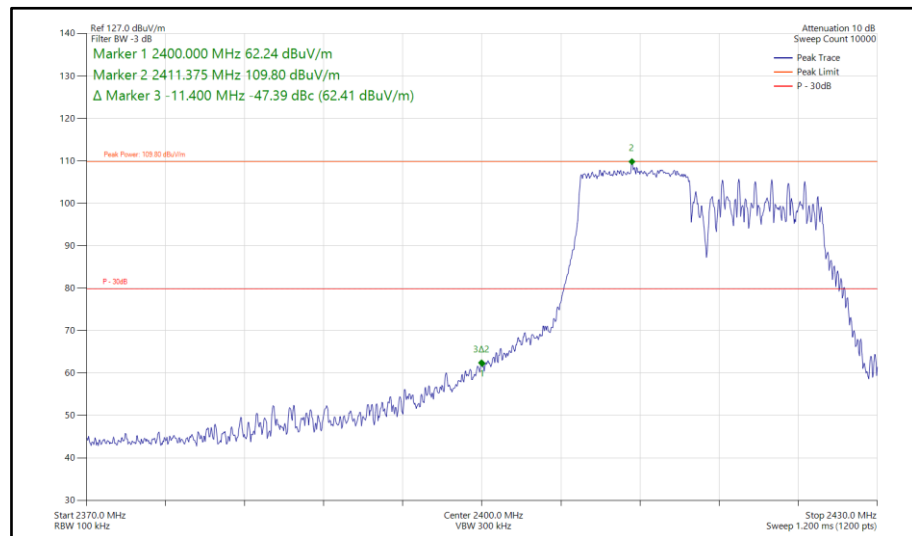
**Figure 162 - 802.11ax HE20, SU, SISO, Core 0 - 2412 MHz
Band Edge Frequency 2400 MHz**



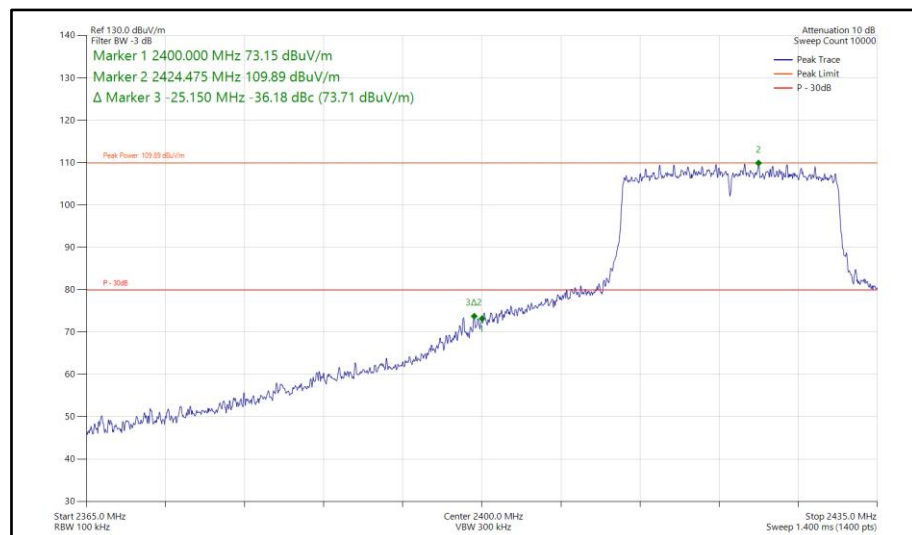
**Figure 163 - 802.11ax HE20, RU 106-53, SISO, Core 0 - 2412 MHz
Band Edge Frequency 2400 MHz**



**Figure 164 - 802.11ax HE20, SU, SISO, Core 0 - 2417 MHz
Band Edge Frequency 2400 MHz**



**Figure 165 - 802.11ax HE20, RU 106-53, SISO, Core 0 - 2417 MHz
Band Edge Frequency 2400 MHz**



**Figure 166 - 802.11ax HE20, SU, SISO, Core 0 - 2422 MHz
Band Edge Frequency 2400 MHz**

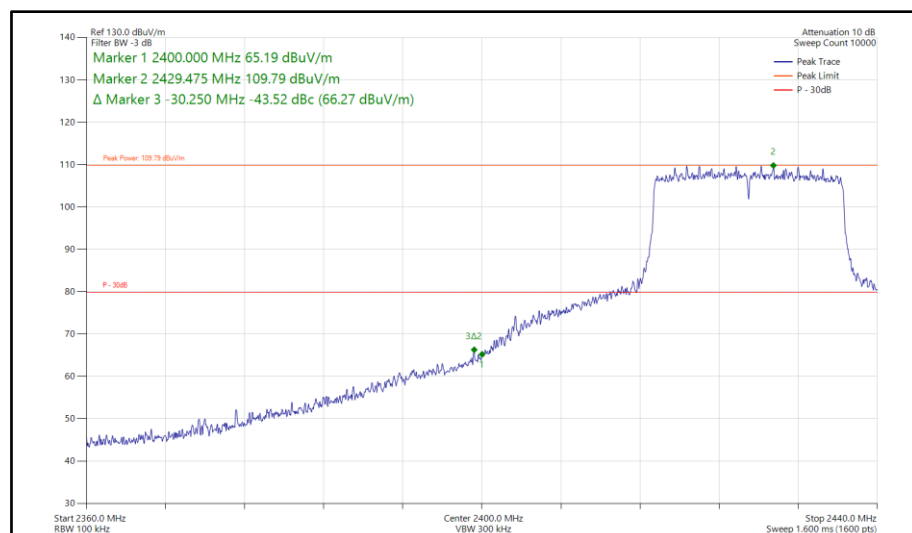




Figure 167 - 802.11ax HE20, SU, SISO, Core 0 - 2427 MHz
Band Edge Frequency 2400 MHz

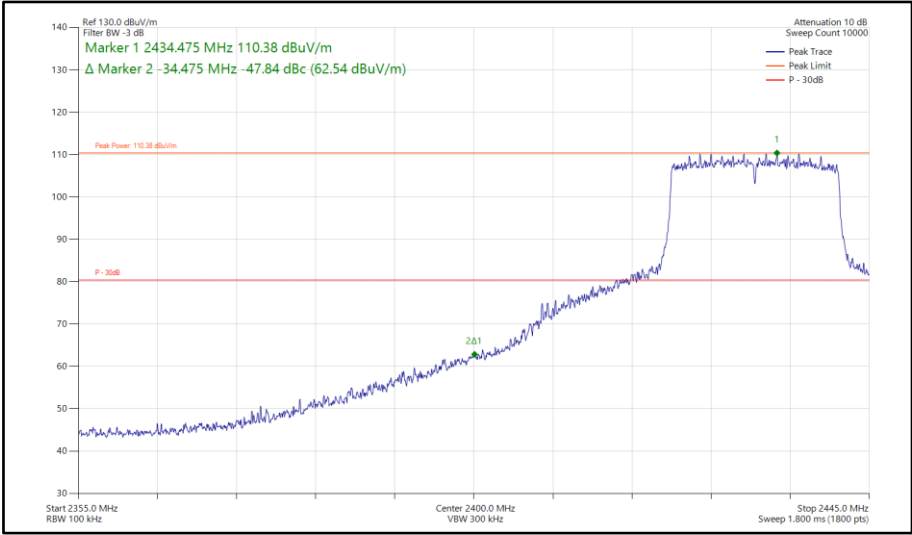
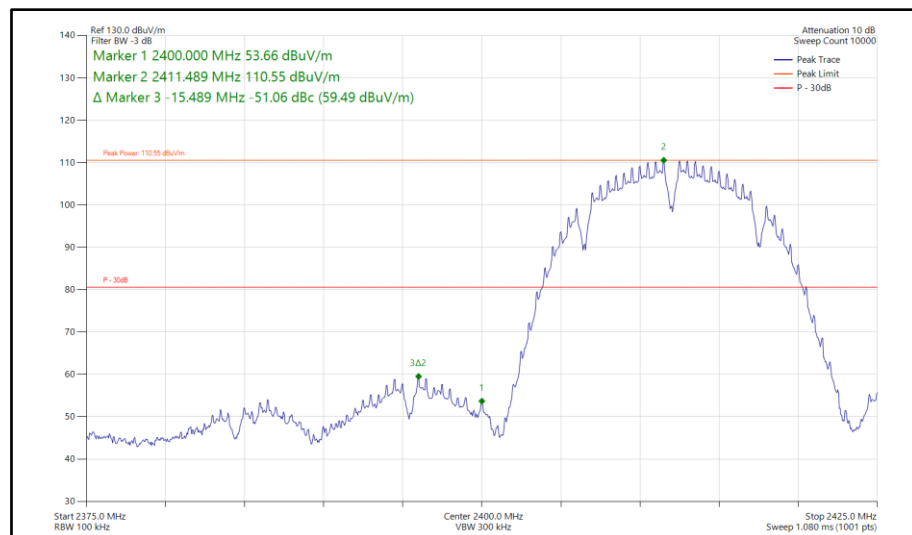


Figure 168 - 802.11ax HE20, SU, SISO, Core 0 - 2432 MHz
Band Edge Frequency 2400 MHz

20 MHz Bandwidth - Core 1 (SISO)

Mode	Data Rate/ MCS	Resource Size	Resource Index	TX Frequency (MHz)	Band Edge Frequency (MHz)	Level (dBc)
802.11b	1 Mbps	-	-	2412	2400	-51.06
802.11b	1 Mbps	-	-	2417	2400	-54.49
802.11g	54 Mbps	-	-	2412	2400	-34.65
802.11g	54 Mbps	-	-	2417	2400	-34.73
802.11g	54 Mbps	-	-	2422	2400	-41.57
802.11g	54 Mbps	-	-	2427	2400	-47.71
802.11g	54 Mbps	-	-	2432	2400	-50.39
802.11n HT20	MCS7	-	-	2412	2400	-35.48
802.11n HT20	MCS7	-	-	2417	2400	-34.51
802.11n HT20	MCS7	-	-	2422	2400	-39.28
802.11n HT20	MCS7	-	-	2427	2400	-46.50
802.11n HT20	MCS7	-	-	2432	2400	-49.66
802.11ax HE20	MCS9x1	SU	-	2412	2400	-35.77
802.11ax HE20	MCS9x1	106	53	2412	2400	-42.36
802.11ax HE20	MCS9x1	SU	-	2417	2400	-35.05
802.11ax HE20	MCS9x1	106	53	2417	2400	-47.83
802.11ax HE20	MCS9x1	SU	-	2422	2400	-35.43
802.11ax HE20	MCS9x1	SU	-	2427	2400	-45.20
802.11ax HE20	MCS9x1	SU	-	2432	2400	-47.80

Table 55 - SISO Authorised Band Edge Results



**Figure 169 - 802.11b, SISO, Core 1 - 2412 MHz
Band Edge Frequency 2400 MHz**

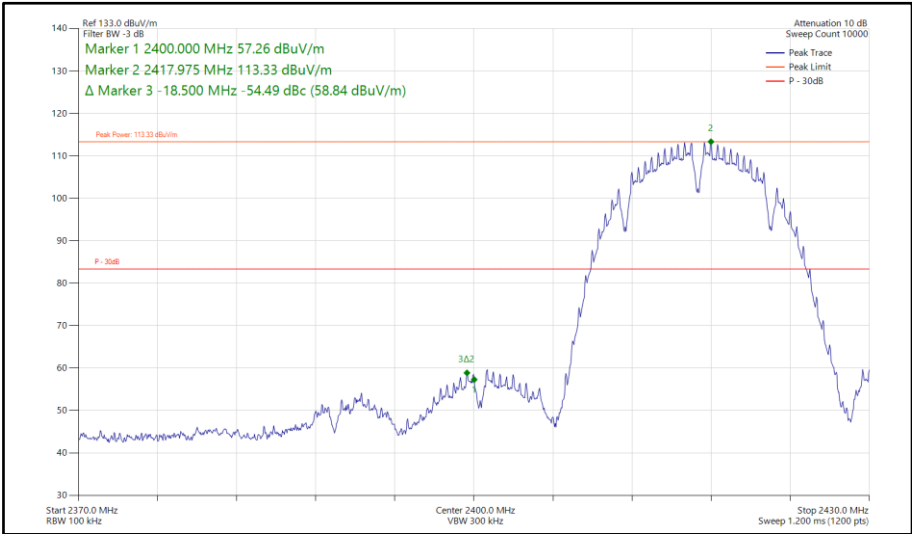


Figure 170 - 802.11b, SISO, Core 1 - 2417 MHz
Band Edge Frequency 2400 MHz

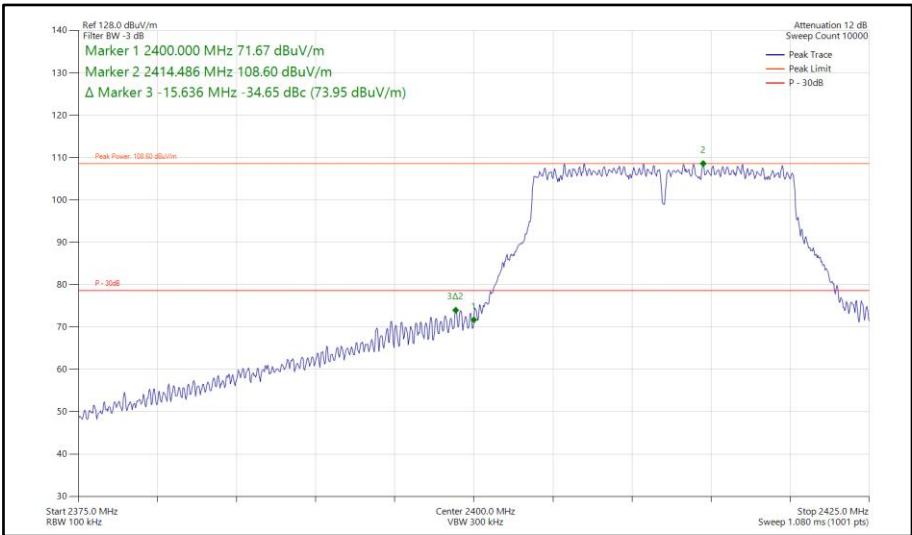


Figure 171 - 802.11g, SISO, Core 1 - 2412 MHz
Band Edge Frequency 2400 MHz

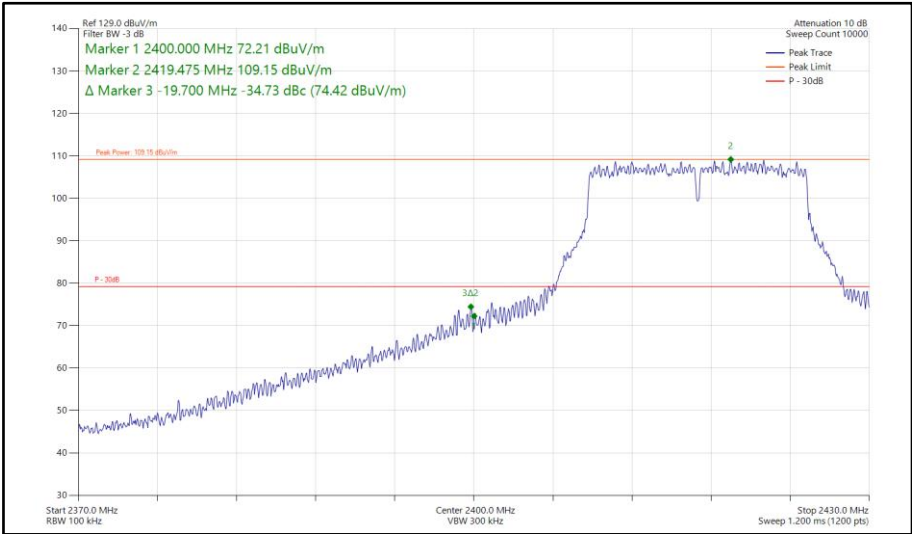


Figure 172 - 802.11g, SISO, Core 1 - 2417 MHz
Band Edge Frequency 2400 MHz

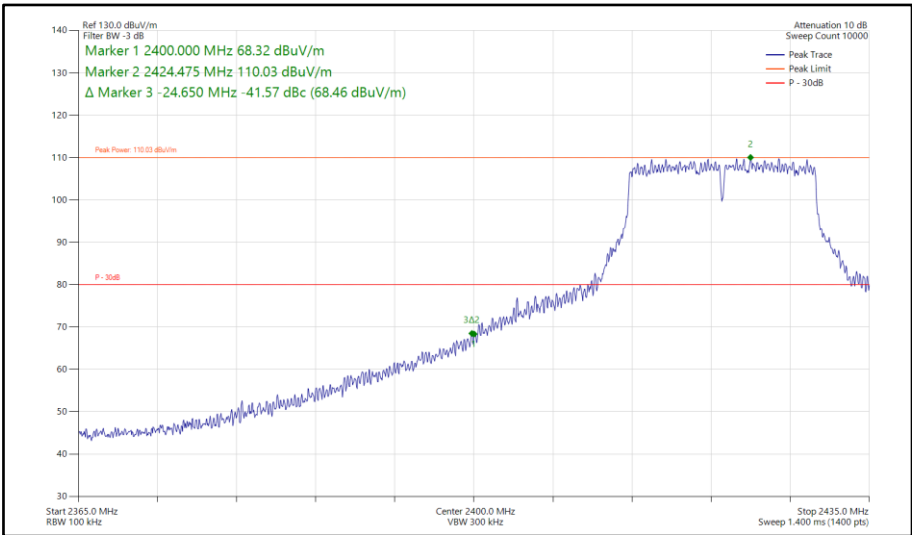


Figure 173 - 802.11g, SISO, Core 1 - 2422 MHz
Band Edge Frequency 2400 MHz

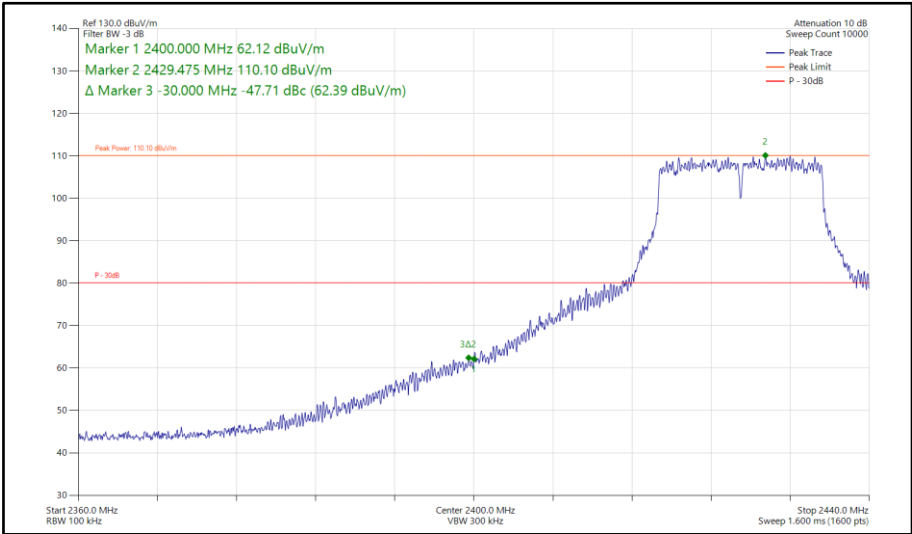


Figure 174 - 802.11g, SISO, Core 1 - 2427 MHz
Band Edge Frequency 2400 MHz

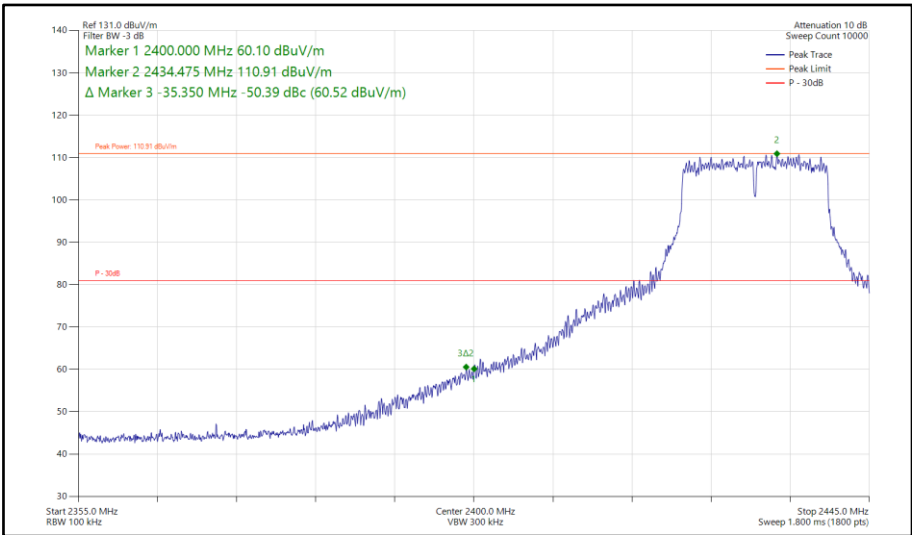
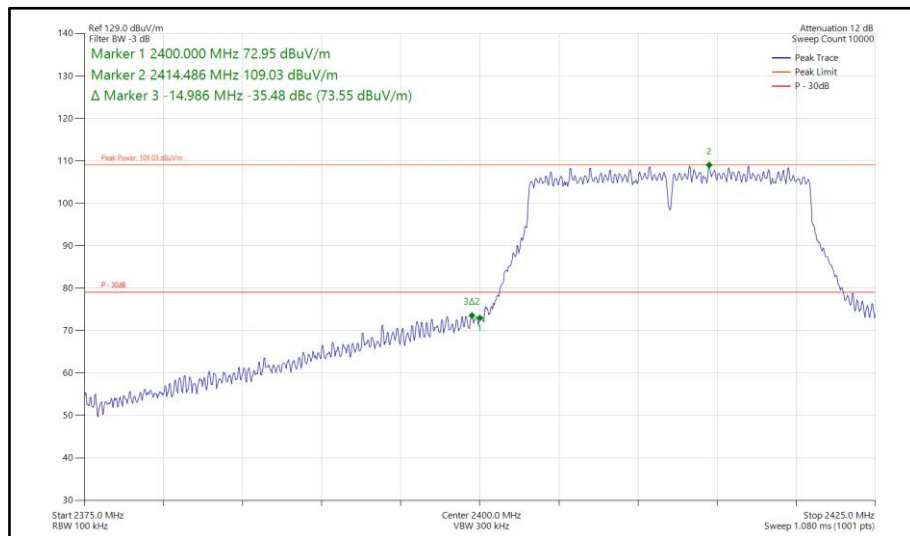
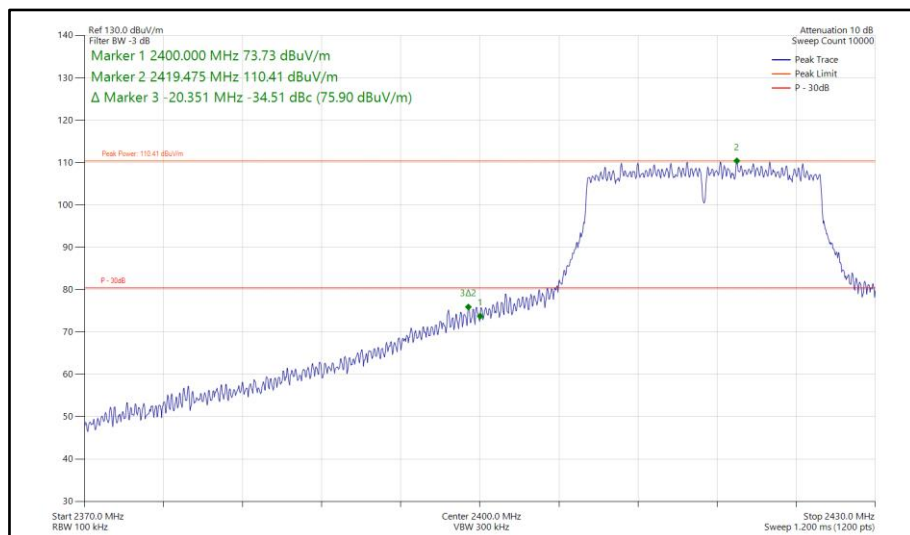


Figure 175 - 802.11g, SISO, Core 1 - 2432 MHz
Band Edge Frequency 2400 MHz



**Figure 176 - 802.11n HT20, SISO, Core 1 - 2412 MHz
Band Edge Frequency 2400 MHz**



**Figure 177 - 802.11n HT20, SISO, Core 1 - 2417 MHz
Band Edge Frequency 2400 MHz**

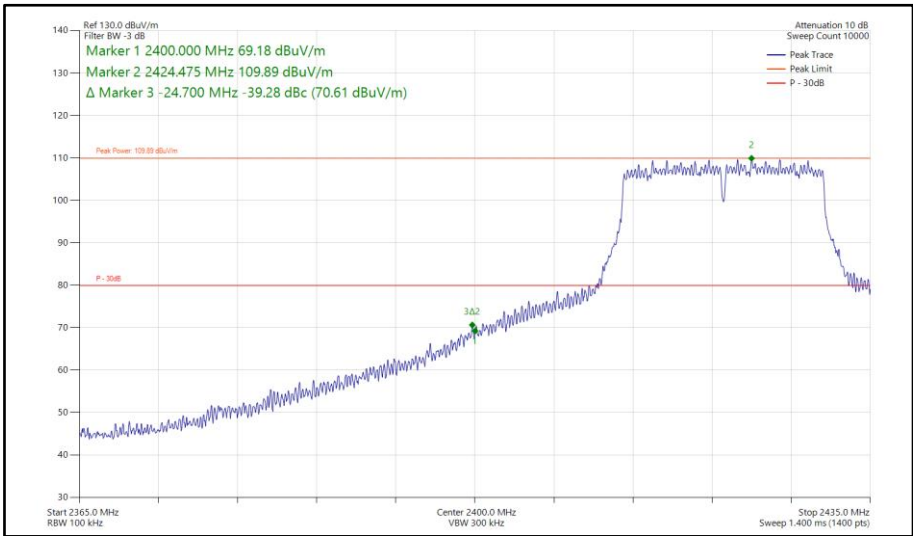


Figure 178 - 802.11n HT20, SISO, Core 1 - 2422 MHz
Band Edge Frequency 2400 MHz

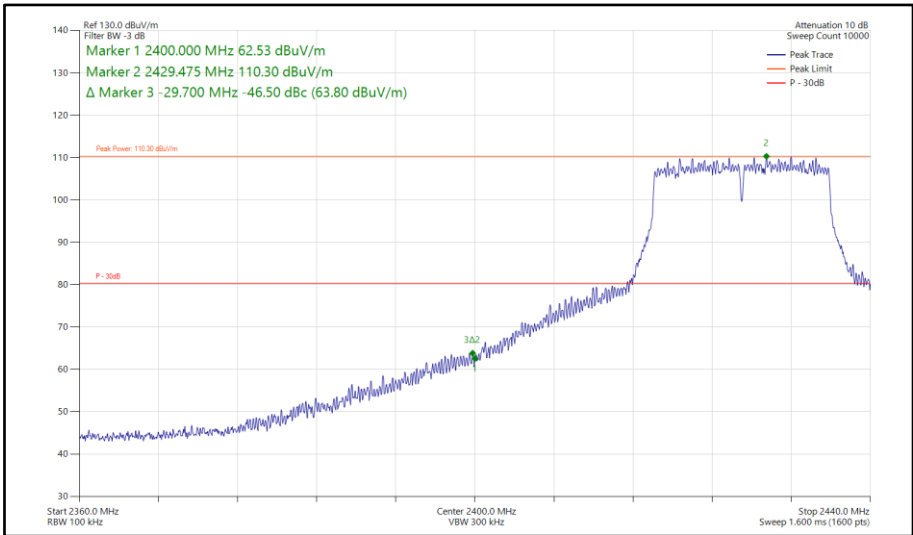


Figure 179 - 802.11n HT20, SISO, Core 1 - 2427 MHz
Band Edge Frequency 2400 MHz

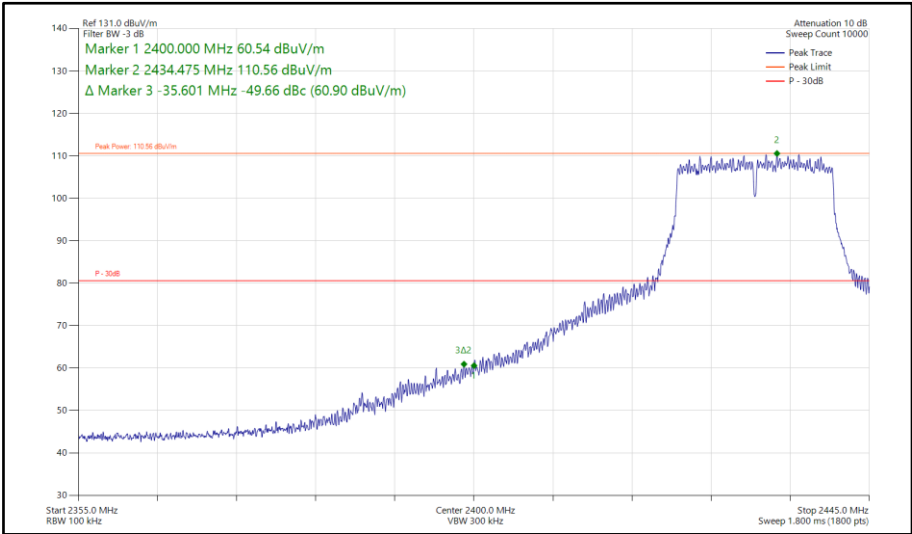


Figure 180 - 802.11n HT20, SISO, Core 1 - 2432 MHz
Band Edge Frequency 2400 MHz

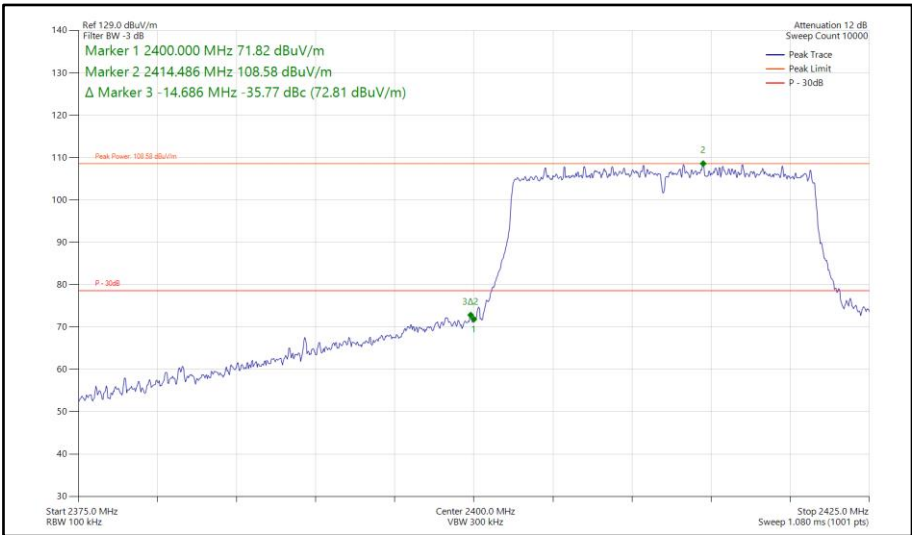
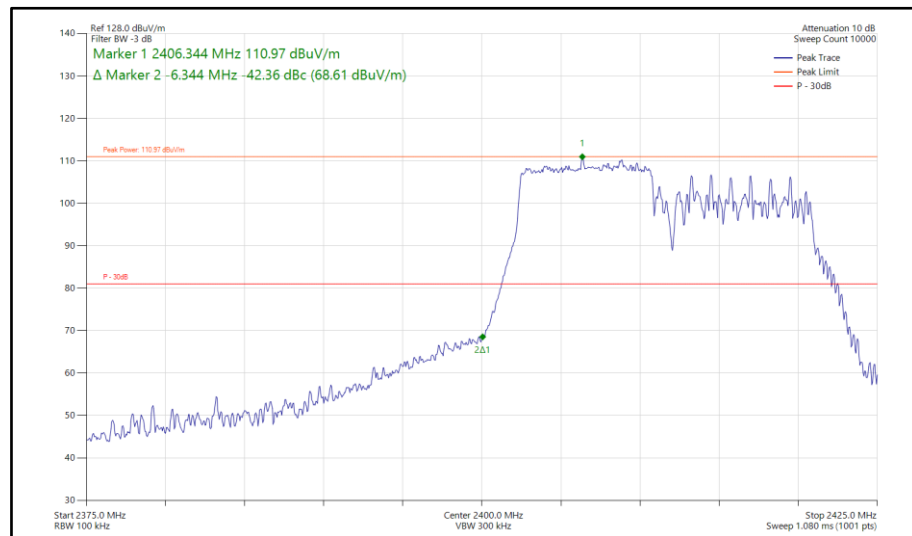
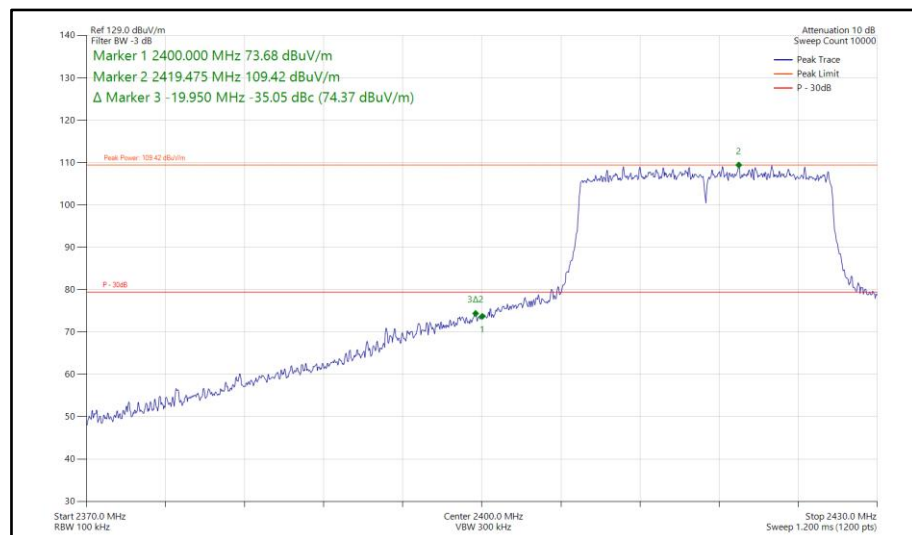


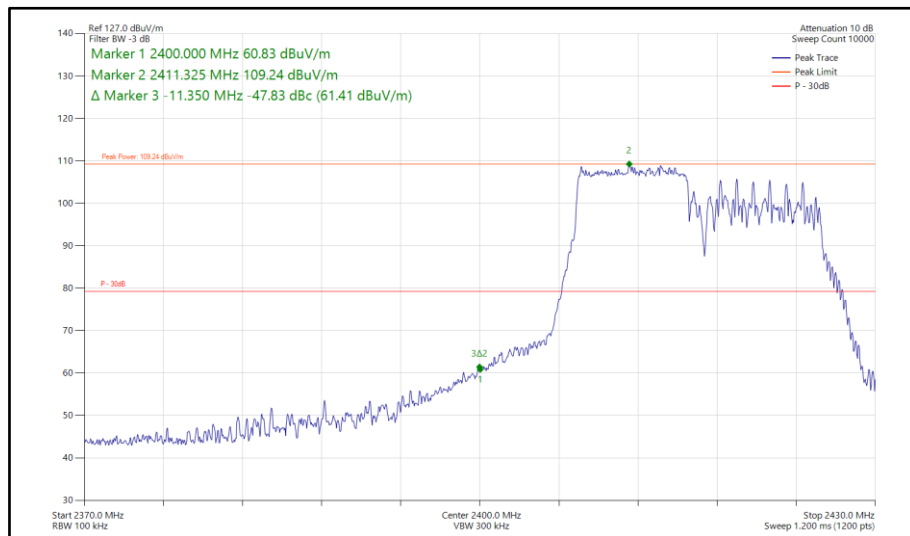
Figure 181 - 802.11ax HE20, SU, SISO, Core 1 - 2412 MHz
Band Edge Frequency 2400 MHz



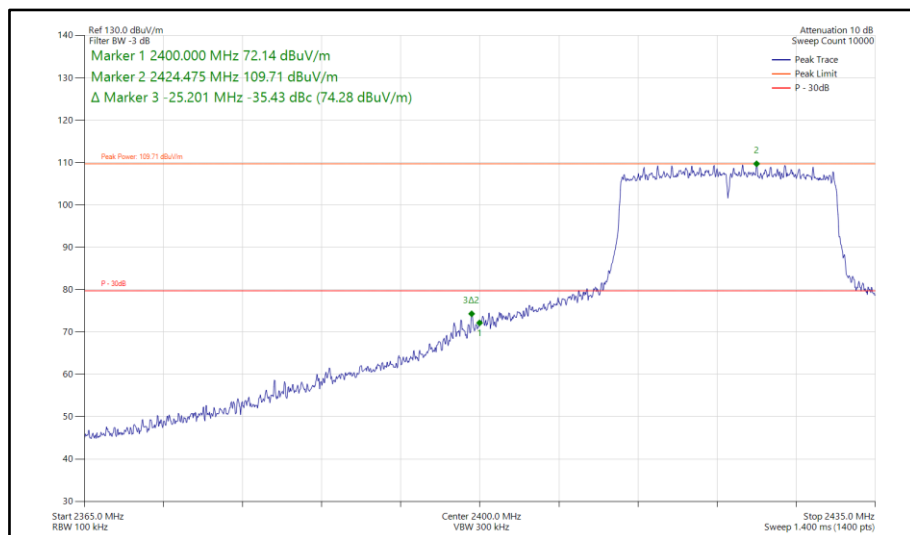
**Figure 182 - 802.11ax HE20, RU 106-53, SISO, Core 1 - 2412 MHz
Band Edge Frequency 2400 MHz**



**Figure 183 - 802.11ax HE20, SU, SISO, Core 1 - 2417 MHz
Band Edge Frequency 2400 MHz**



**Figure 184 - 802.11ax HE20, RU 106-53, SISO, Core 1 - 2417 MHz
Band Edge Frequency 2400 MHz**



**Figure 185 - 802.11ax HE20, SU, SISO, Core 1 - 2422 MHz
Band Edge Frequency 2400 MHz**

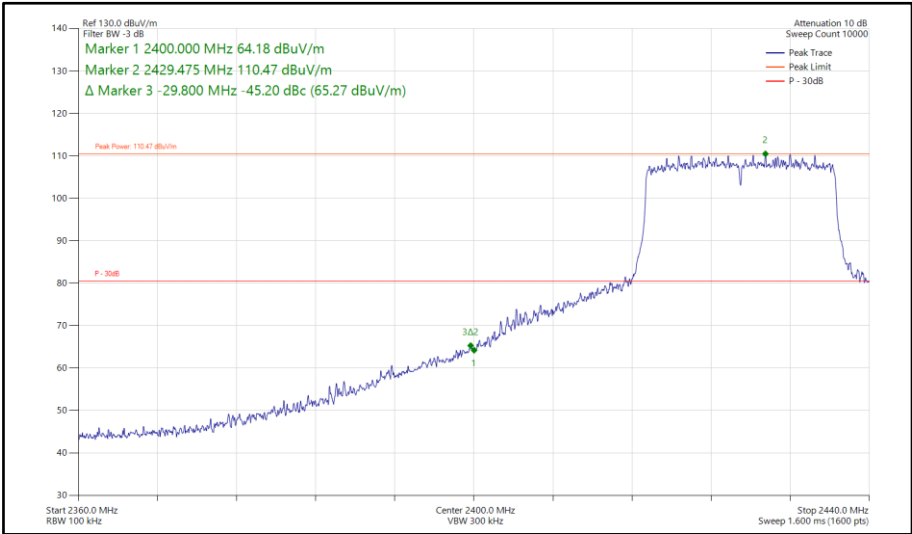


Figure 186 - 802.11ax HE20, SU, SISO, Core 1 - 2427 MHz
Band Edge Frequency 2400 MHz

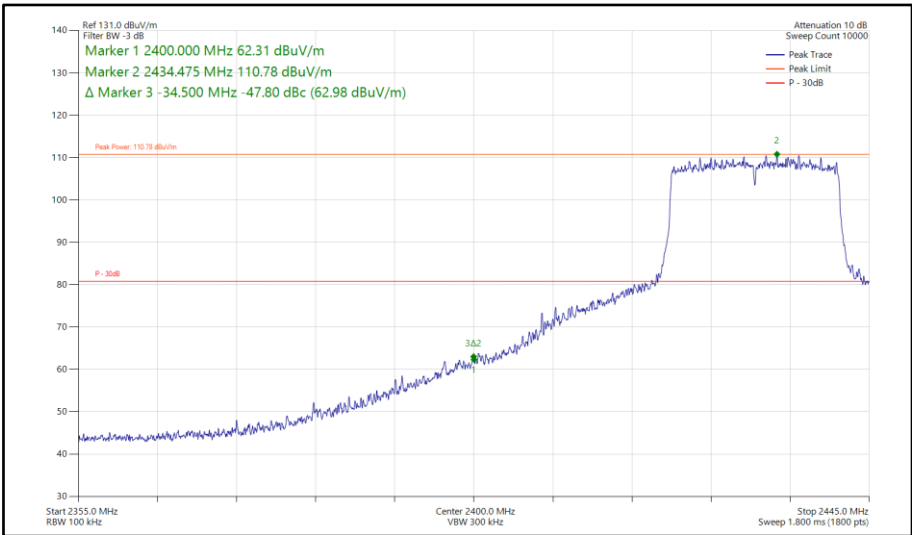
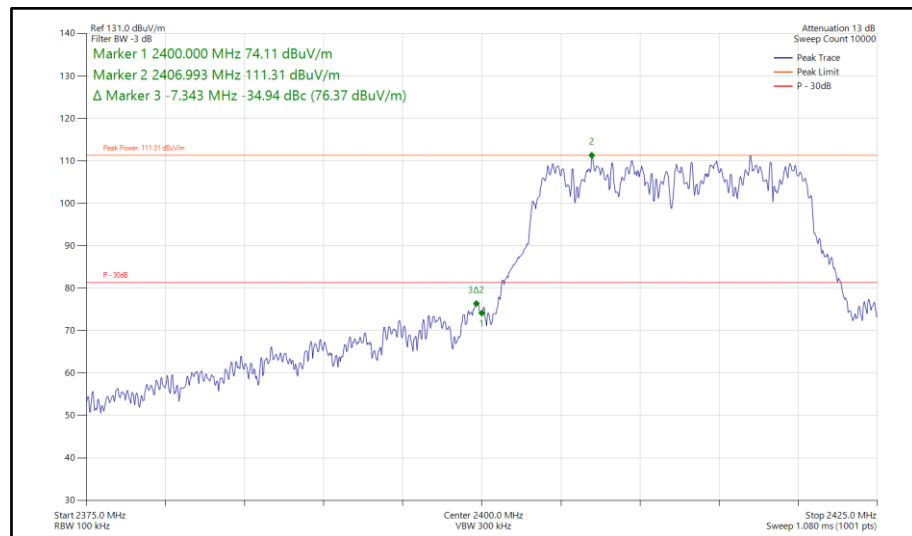


Figure 187 - 802.11ax HE20, SU, SISO, Core 1 - 2432 MHz
Band Edge Frequency 2400 MHz

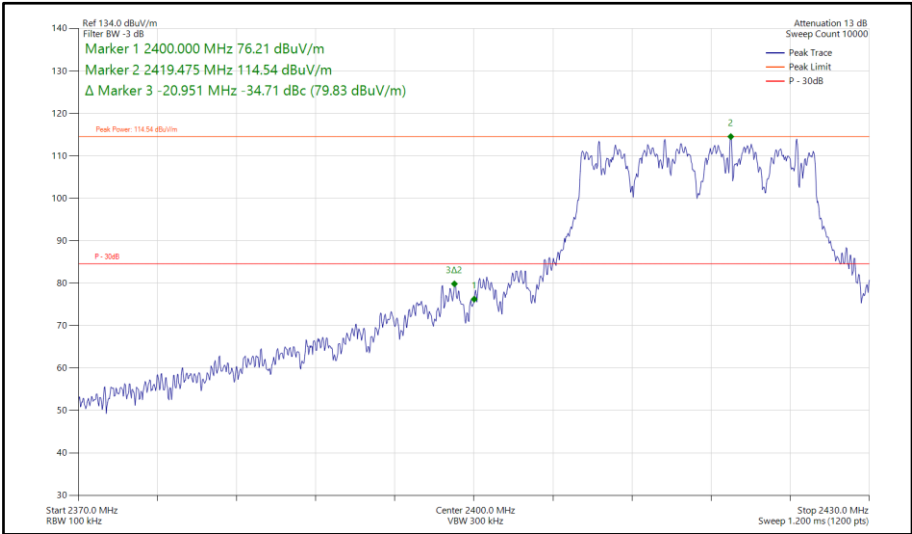
20 MHz Bandwidth - Core 0 - Core 1 (CDD)

Mode	Data Rate/ MCS	Resource Size	Resource Index	TX Frequency (MHz)	Band Edge Frequency (MHz)	Level (dBc)
802.11n HT20	MCS7	-	-	2412	2400	-34.94
802.11n HT20	MCS7	-	-	2417	2400	-34.71
802.11n HT20	MCS7	-	-	2422	2400	-41.12
802.11n HT20	MCS7	-	-	2427	2400	-46.66
802.11n HT20	MCS7	-	-	2432	2400	-49.63
802.11ax HE20	MCS4x1	SU	-	2412	2400	-35.05
802.11ax HE20	MCS9x1	106	53	2412	2400	-40.30
802.11ax HE20	MCS9x1	SU	-	2417	2400	-34.75
802.11ax HE20	MCS9x1	106	53	2417	2400	-46.38
802.11ax HE20	MCS9x1	SU	-	2422	2400	-36.65
802.11ax HE20	MCS9x1	106	54	2422	2400	-53.39
802.11ax HE20	MCS9x1	SU	-	2427	2400	-44.68
802.11ax HE20	MCS9x1	SU	-	2432	2400	-48.36

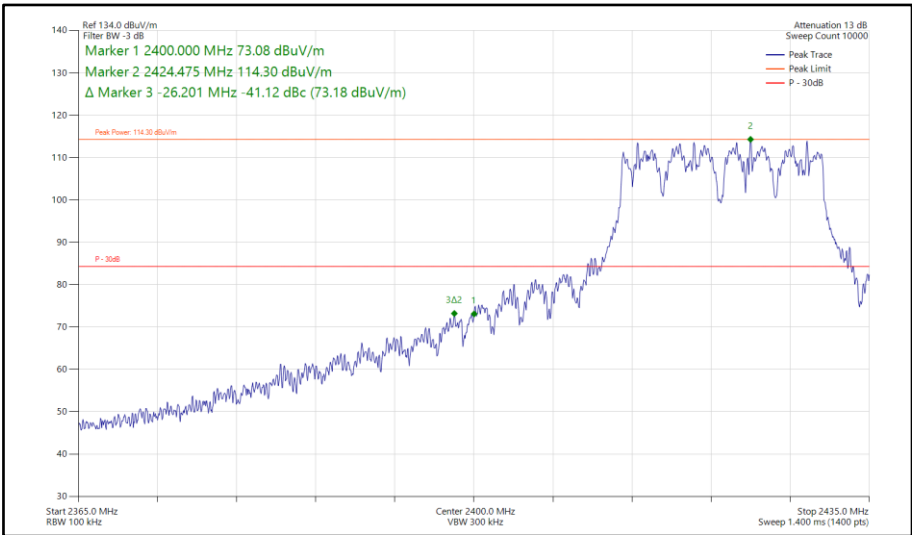
Table 56 - CDD Authorised Band Edge Results



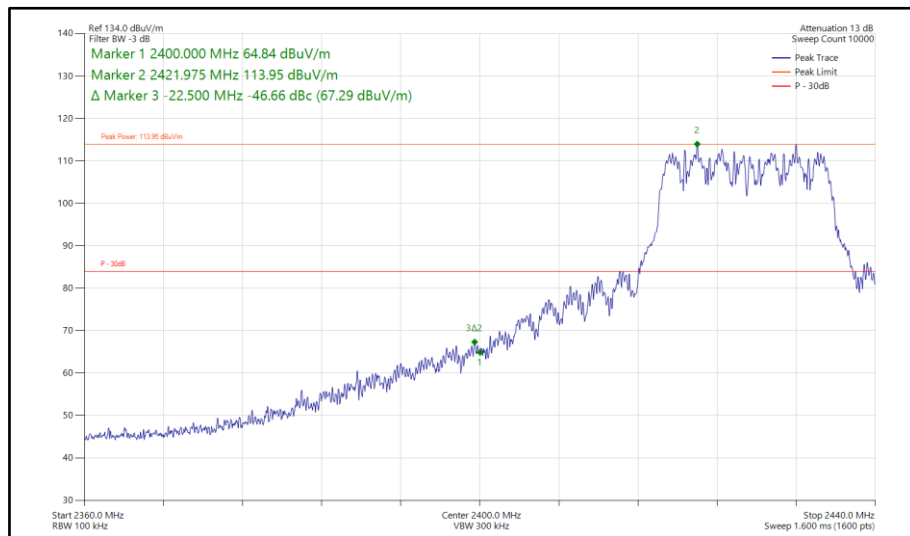
**Figure 188 - 802.11n HT20, CDD, Core 0 - Core 1 - 2412 MHz
Band Edge Frequency 2400 MHz**



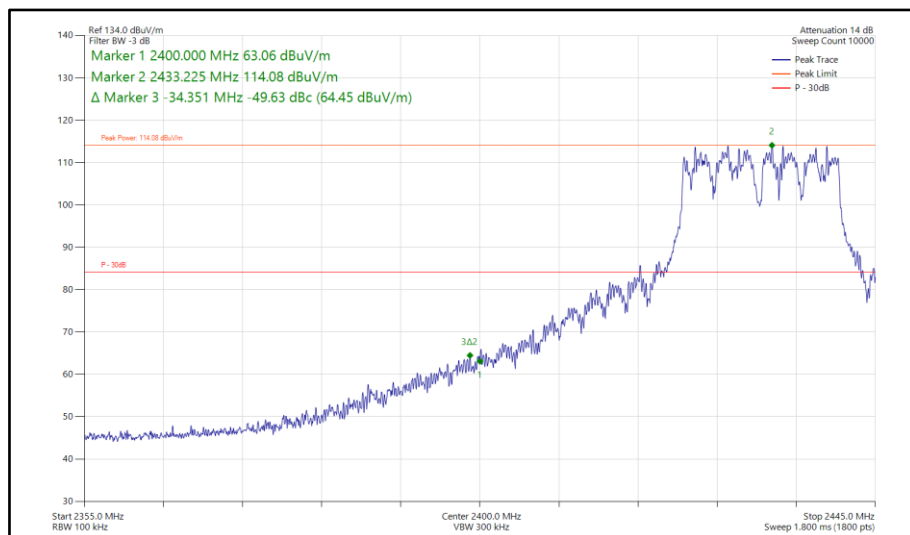
**Figure 189 - 802.11n HT20, CDD, Core 0 - Core 1 - 2417 MHz
Band Edge Frequency 2400 MHz**



**Figure 190 - 802.11n HT20, CDD, Core 0 - Core 1 - 2422 MHz
Band Edge Frequency 2400 MHz**



**Figure 191 - 802.11n HT20, CDD, Core 0 - Core 1 - 2427 MHz
Band Edge Frequency 2400 MHz**



**Figure 192 - 802.11n HT20, CDD, Core 0 - Core 1 - 2432 MHz
Band Edge Frequency 2400 MHz**

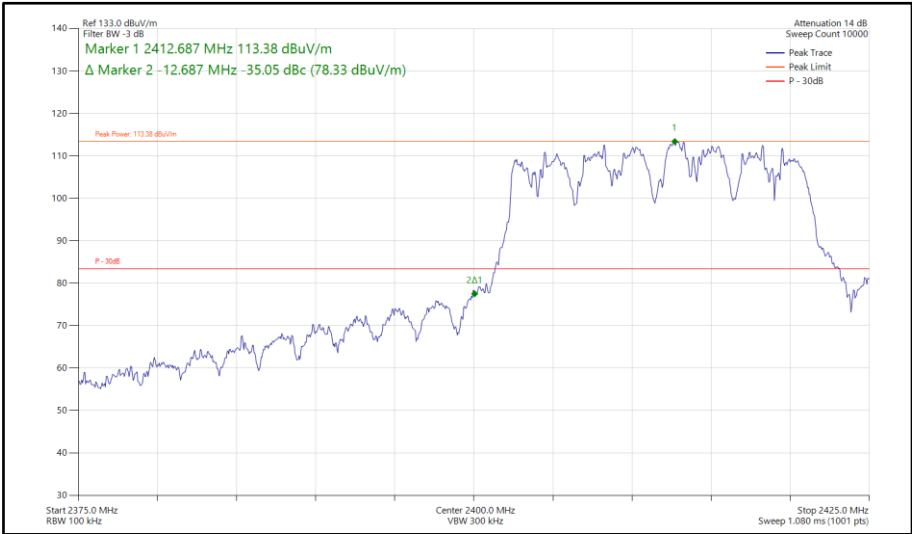


Figure 193 - 802.11ax HE20, SU, CDD, Core 0 - Core 1 - 2412 MHz
Band Edge Frequency 2400 MHz

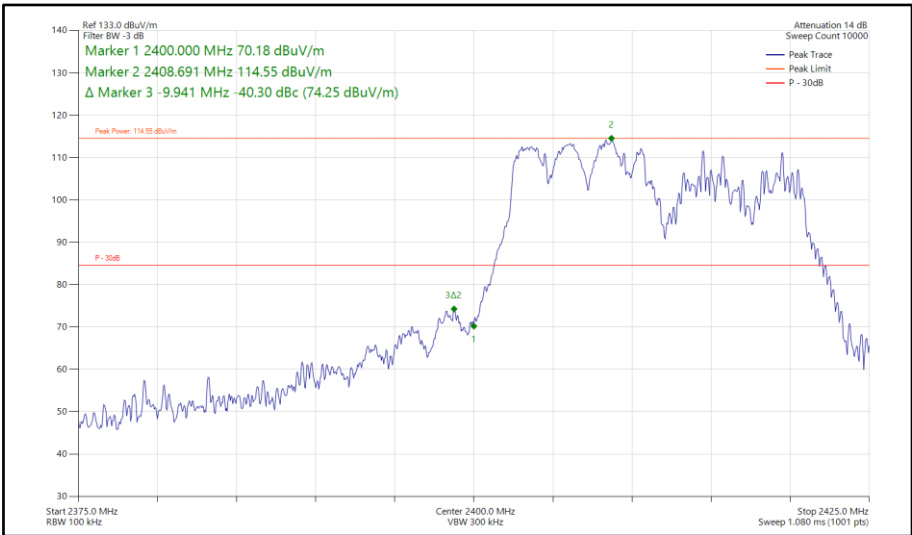
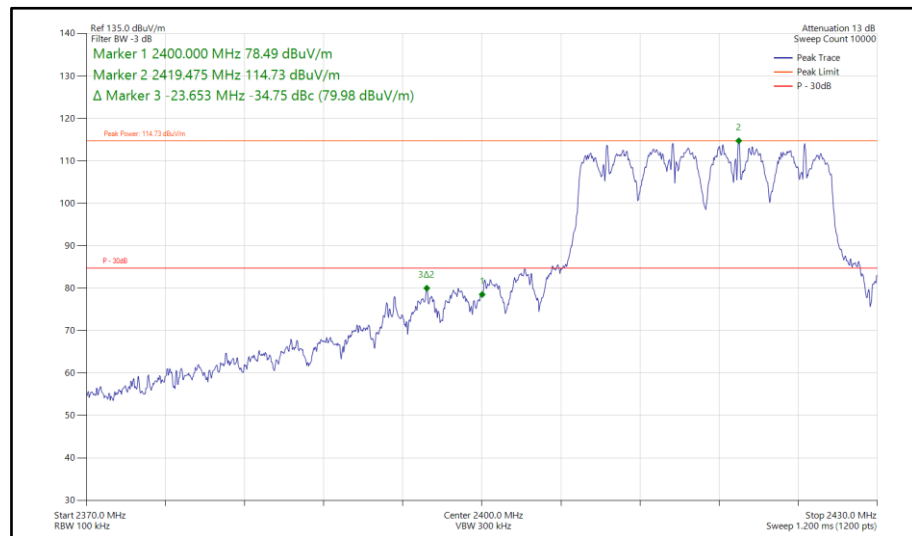
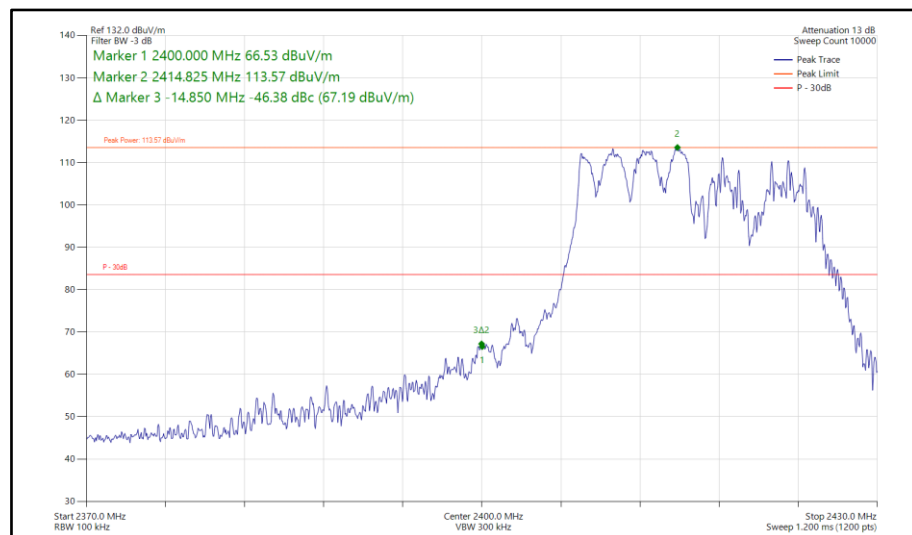


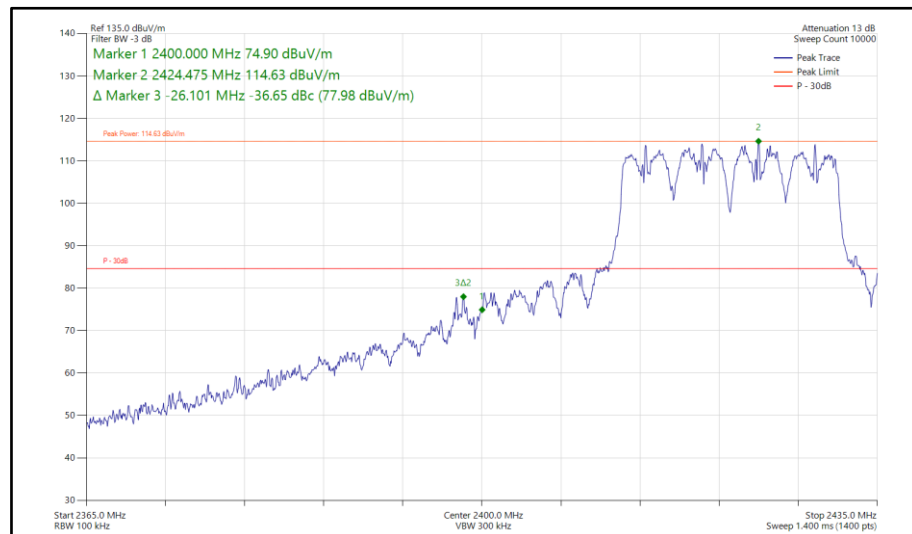
Figure 194 - 802.11ax HE20, RU 106-53, CDD, Core 0 - Core 1 - 2412 MHz
Band Edge Frequency 2400 MHz



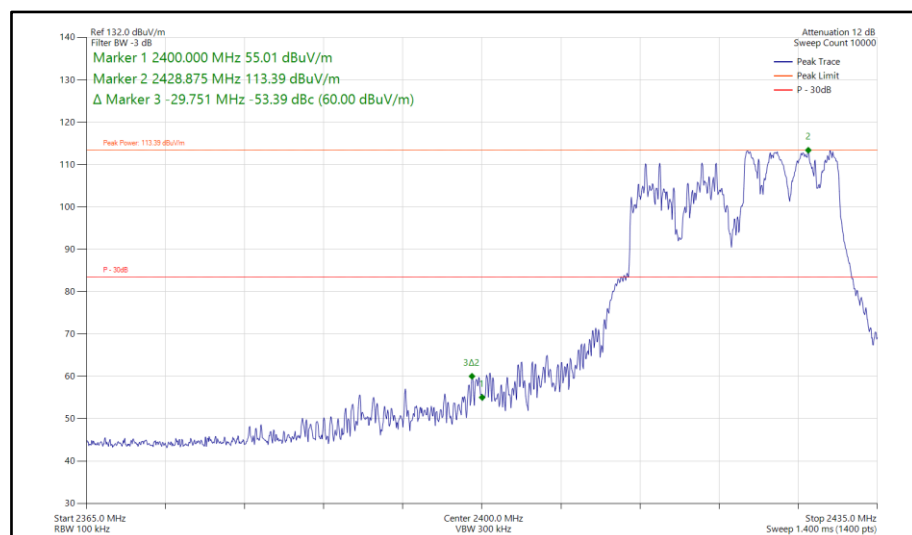
**Figure 195 - 802.11ax HE20, SU, CDD, Core 0 - Core 1 - 2417 MHz
Band Edge Frequency 2400 MHz**



**Figure 196 - 802.11ax HE20, RU 106-53, CDD, Core 0 - Core 1 - 2417 MHz
Band Edge Frequency 2400 MHz**



**Figure 197 - 802.11ax HE20, SU, CDD, Core 0 - Core 1 - 2422 MHz
Band Edge Frequency 2400 MHz**



**Figure 198 - 802.11ax HE20, RU 106-54, CDD, Core 0 - Core 1 - 2422 MHz
Band Edge Frequency 2400 MHz**