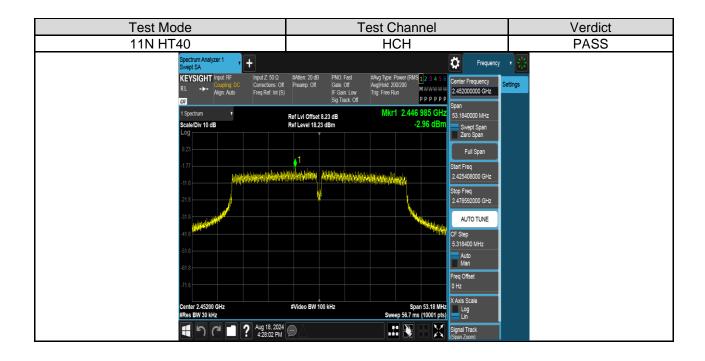




**Test Mode Test Channel** Verdict 11N HT40 MCH PASS oectrum Analyzer 1 wept SA Ü KEYSIGHT Input RF PPPPP Span 52.9800000 MHz Ref Lvi Offset 8.23 dB Ref Level 18.23 dBm -2.36 dBn Swept Span Zero Span Stop Freq 2.463490000 GHz AUTO TUNE CF Step 5.298000 MHz Auto Man #Video BW 100 kHz Log Lin 425:08 PM # ₩















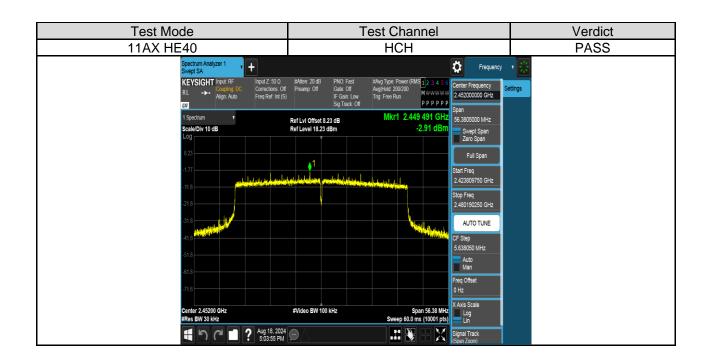








Test Mode **Test Channel** Verdict 11AX HE40 MCH PASS oectrum Analyzer 1 wept SA Ü KEYSIGHT Input RF Span 54.6360000 MHz Mkr1 2.434 487 GH Ref LvI Offset 8.23 dB Ref Level 18.23 dBm -2.36 dBn Swept Span Zero Span Stop Freq 2.464318000 GHz AUTO TUNE CF Step 5.463600 MHz Auto Man #Video BW 100 kHz Log Lin 4 9 6 7 ? Aug 18, 2024 5:01:32 PM # ₩





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# 7.5. CONDUCTED BANDEDGE AND SPURIOUS EMISSIONS

### **LIMITS**

FCC Part15 (15.247), Subpart C			
Section Test Item		Limit	
FCC §15.247 (d) Conducted		20 dB below that in the 100 kHz bandwidth	
RSS-247 Clause 5.5 Bandedge and		within the band that contains the highest	
RSS-GEN Clause 6.13	Spurious Emissions	level of the desired power	

### **TEST PROCEDURE**

Refer to FCC KDB 558074, connect the UUT to the spectrum analyser and use the following settings:

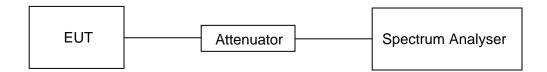
Center Frequency	The centre frequency of the channel under test
Detector	Peak
RBW	100K
VBW	≥3 × RBW
Span	1.5 x DTS bandwidth
Trace	Max hold
Sweep time	Auto couple.

Use the peak marker function to determine the maximum PSD level.

Span	Set the center frequency and span to encompass frequency range to be measured
Detector	Peak
RBW	100K
VBW	≥3 x RBW
measurement points	≥span/RBW
Trace	Max hold
Sweep time	Auto couple.

Use the peak marker function to determine the maximum amplitude level.

### **TEST SETUP**





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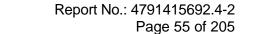
## **TEST ENVIRONMENT**

Temperature	22°C	Relative Humidity	56%
Atmosphere Pressure	101kPa	Test Voltage	AC 120V

## PART 1: REFERENCE LEVEL MEASUREMENT

# **TEST RESULTS TABLE**

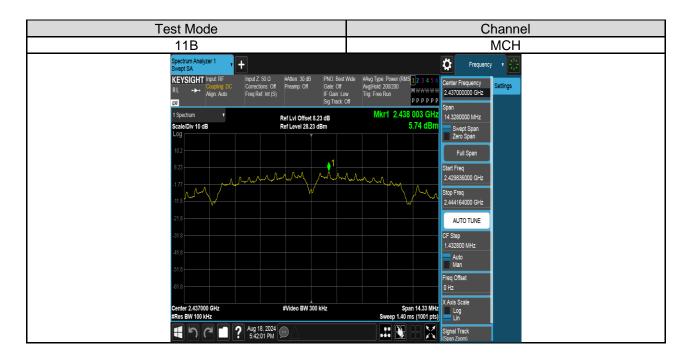
Test Mode	Test Channel	Result[dBm]	
	LCH	5.84	
11B	MCH	5.74	
	HCH	6.79	
	LCH	4.40	
11G	MCH	4.70	
	HCH	4.85	
	LCH	4.39	
11N HT20	MCH	4.38	
	HCH	3.59	
	LCH	1.32	
11N HT40	MCH	1.98	
	HCH	1.24	
	LCH	4.21	
11AX HE20	MCH	5.12	
	HCH	4.87	
	LCH	1.23	
11AX HE40	MCH	1.80	
	HCH	1.48	





#### **TEST GRAPHS**



















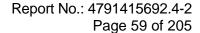














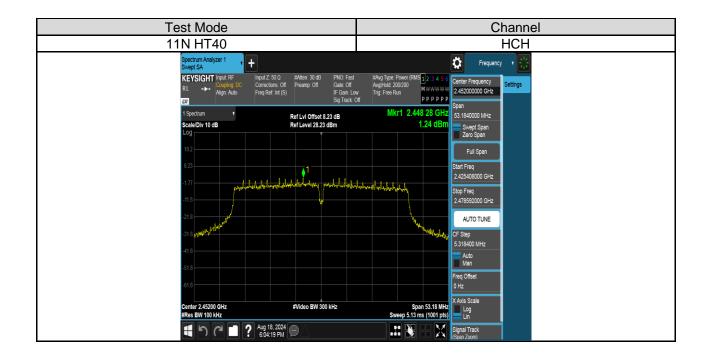


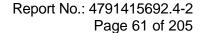






Test Mode Channel 11N HT40 **MCH** pectrum Analyzer 1 wept SA ¢ KEYSIGHT Input RF PPPPPP Span 52.9800000 MHz Mkr1 2.434 51 GHz Ref LvI Offset 8.23 dB Ref Level 28.23 dBm 1.98 dBm Swept Span Zero Span Stop Freq 2.463490000 GHz AUTO TUNE CF Step 5.298000 MHz Auto Man #Video BW 300 kHz Log Lin 4 5 6:01:59 PM 6:01:59 PM 







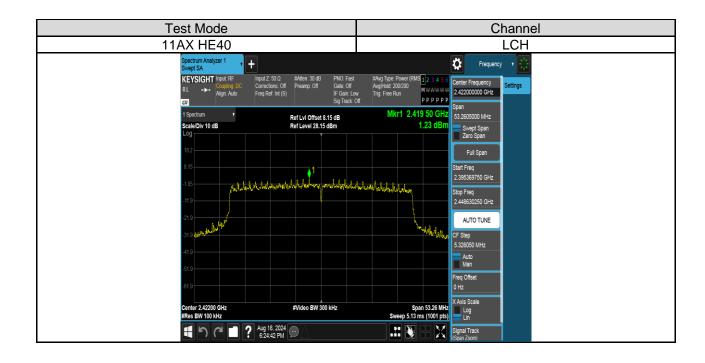








Test Mode Channel 11AX HE20 **HCH** pectrum Analyzer 1 wept SA ¢ KEYSIGHT Input RF PPPPPP Span 27.8505000 MHz Mkr1 2.463 253 GH Ref LvI Offset 8.23 dB Ref Level 28.23 dBm 4.87 dBm Swept Span Zero Span 2.448074750 GHz Stop Freq 2.475925250 GHz AUTO TUNE CF Step 2.785050 MHz Auto Man #Video BW 300 kHz Log Lin 4 5 622:46 PM 622:46 PM 

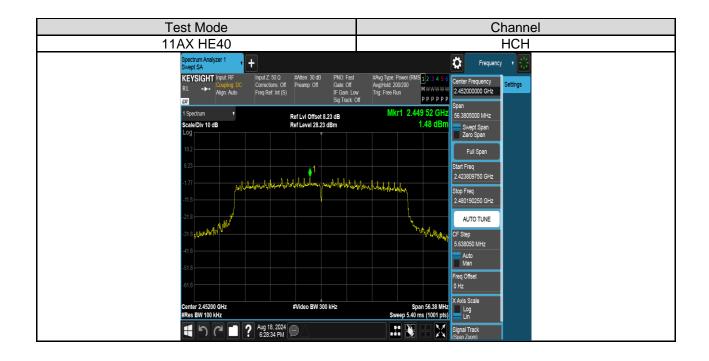






Test Mode Channel 11AX HE40 **MCH** pectrum Analyzer 1 wept SA ¢ KEYSIGHT Input RF PPPPP Span 54.6360000 MHz Mkr1 2.434 54 GHz Ref LvI Offset 8.23 dB Ref Level 28.23 dBm 1.80 dBm Swept Span Zero Span Stop Freq 2.464318000 GHz AUTO TUNE CF Step 5.463600 MHz Auto Man #Video BW 300 kHz Log Lin

4 5 626:47 PM 626:47 PM



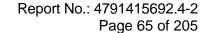


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## **PART 2: CONDUCTED BANDEDGE**

# **TEST RESULTS TABLE**

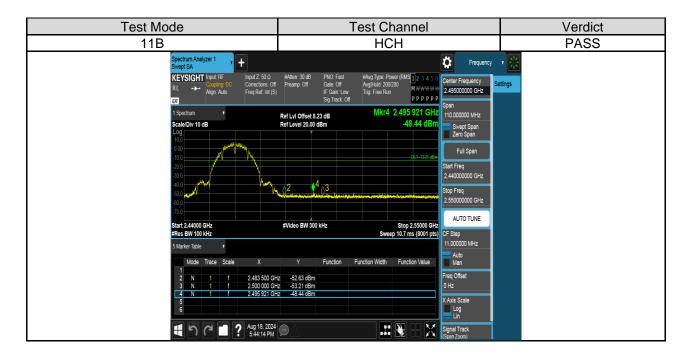
Test Mode	Test Channel	Result	Verdict
11B	LCH	Refer to the Test Graph	PASS
IID	HCH	Refer to the Test Graph	PASS
11G	LCH	Refer to the Test Graph	PASS
IIG	HCH	Refer to the Test Graph	PASS
11N HT20	LCH	Refer to the Test Graph	PASS
1111 1120	HCH	Refer to the Test Graph	PASS
440111740	LCH	Refer to the Test Graph	PASS
11N HT40	HCH	Refer to the Test Graph	PASS

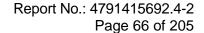




#### **TEST GRAPHS**



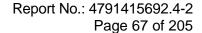








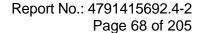








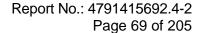








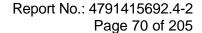






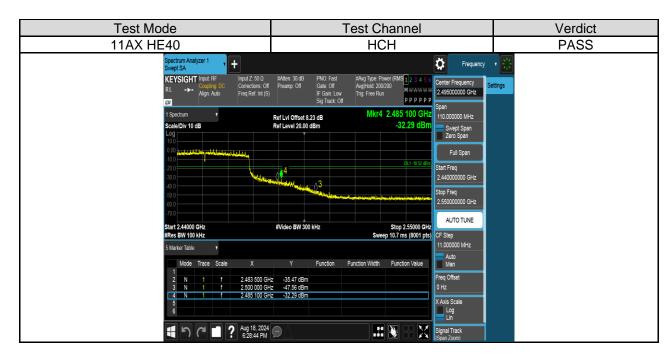














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## **PART 3: CONDUCTED SPURIOUS EMISSION**

# **TEST RESULTS TABLE**

Test Mode	Test Channel	Result	Verdict
	LCH	Refer to the Test Graph	PASS
11B	MCH	Refer to the Test Graph	PASS
	HCH	Refer to the Test Graph	PASS
	LCH	Refer to the Test Graph	PASS
11G	MCH	Refer to the Test Graph	PASS
	HCH	Refer to the Test Graph	PASS
11N HT20	LCH	Refer to the Test Graph	PASS
	MCH	Refer to the Test Graph	PASS
	HCH	Refer to the Test Graph	PASS
	LCH	Refer to the Test Graph	PASS
11N HT40	MCH	Refer to the Test Graph	PASS
	HCH	Refer to the Test Graph	PASS
	LCH	Refer to the Test Graph	PASS
11AX HE20	MCH	Refer to the Test Graph	PASS
	HCH	Refer to the Test Graph	PASS
	LCH	Refer to the Test Graph	PASS
11AX HE40	MCH	Refer to the Test Graph	PASS
	HCH	Refer to the Test Graph	PASS



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#### **TEST GRAPHS**

Test Mode	Channel	Verdict
11B	LCH	PASS

