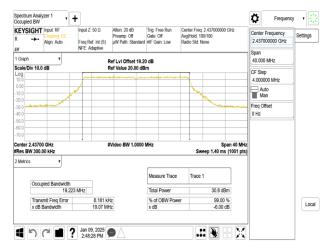
Report No.: TERF2412003977ER Page: 55 of 260



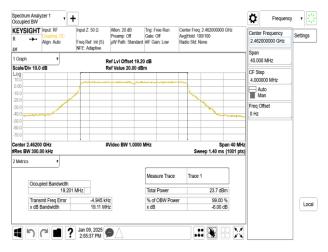
802.11be 20MHz Chain0 2412MHz



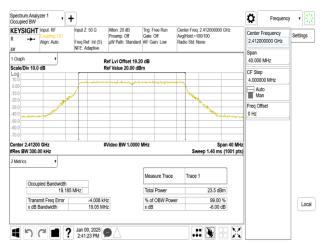
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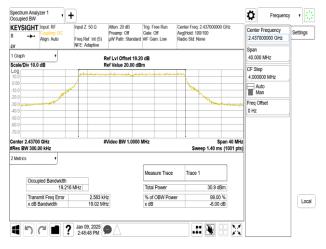
802.11be 20MHz Chain0 2462MHz



802.11be 20MHz Chain1 2412MHz



802.11be 20MHz Chain1 2437MHz



802.11be_20MHz_Chain1_2462MHz



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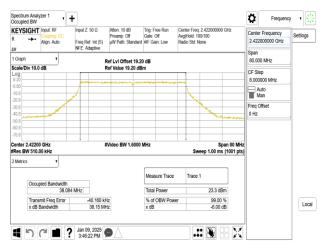
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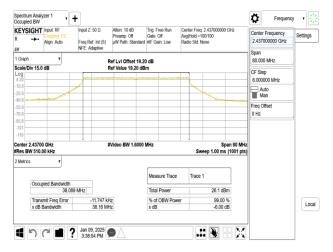
Report No.: TERF2412003977ER Page: 56 of 260



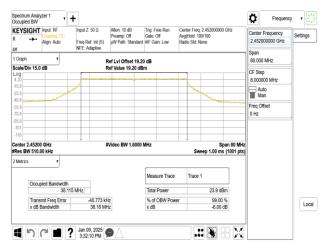
802.11be 40MHz Chain0 2422MHz



802.11be 40MHz Chain0 2437MHz



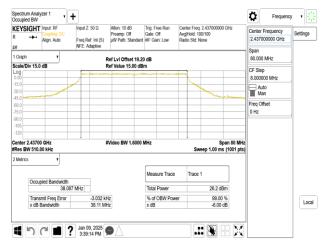
802.11be_40MHz_Chain0_2452MHz



Spectrum Analyzer 1 Occupied BW Ö Frequency • · + Atten: 10 dB Preamp: Off µW Path: Standard KEYSIGHT Input RF put Z: 50 Ω Trig: Free Run Gate: Off rd #IF Gain: Low Center Freq: 2.422000 Avg|Hold: 100/100 Radio Std: None Center Frequency 2.422000000 GHz Settings -Align: Auto Freq Ref: Int (S) 80.000 MHa Ref Lvi Offset 19.20 dB Ref Value 19.20 dBm Scale/Div 15.0 dB CF Ster 8.000000 MHz Auto Man Freq Offse 0 Hz Span 80 MH Sweep 1.00 ms (1001 pts Center 2.42200 GHz #Res BW 510.00 kHz #Mideo RW 1 6000 MH Metrics Measure Trace Trace 1 Occupied Bandwidth 38.105 MHz Total Powe 23.2 dBm % of OBW Power x dB Transmit Freq Error x dB Bandwidth 11.942 kHz 38.08 MHz 99.00 % -6.00 dB Local 📲 🥱 🍋 🔳 ? Jan 09, 2025 🗩 .# 🖹 -- X

802.11be 40MHz Chain1 2422MHz

802.11be 40MHz Chain1 2437MHz



802.11be_40MHz_Chain1_2452MHz



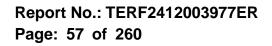
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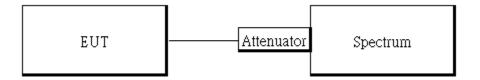


10 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

10.1 **Standard Applicable**

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a) & RSS-Gen §8.10, must also comply with the radiated emission limits specified in §15.209(a) & RSS-Gen §8.9.

10.2 Test Setup



10.3 **Measurement Procedure**

10.3.1 **Reference Level of Emission Limit:**

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- 3. Set the span to 1.5 times the DTS channel bandwidth.
- 4. Set the RBW = 100kHz & VBW = 300 kHz.
- 5. Detector = Peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level.
- 10. MIMO mode: offset is set following "measure and add 10 Log (N)" on spectrum to measure for MIMO mode. Offset = cable loss + $10 \log (N)$, where N is number of transmitting antenna.

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10.3.2 **Conducted Band Edge:**

- 1. To connect Antenna Port of EUT to Spectrum.
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 4. Set start to edge frequency, and stop frequency of spectrum analyzer so as to encompass the spectrum to be examined.
- 5. Set the spectrum analyzer as RBW=100 kHz, VBW=300 kHz, Detector = Peak, Sweep = auto
- 6. Mark the highest reading of the emission as the reference level measurement.
- Set DL as the limit = reading on marker of reference level measurement -30dBm.
- Mark the highest readings of the emissions outside of 2400MHz~2483.5MHz.
- 9. Repeat above procedures until all default test channel (low, middle, and high) was complete.
- 10. MIMO mode: offset is set following "measure and add 10 Log (N)" on spectrum to measure for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna.

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Conducted Spurious Emission:

- To connect Antenna Port of EUT to Spectrum
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- 3. Set RBW = 100 kHz & VBW= 300 kHz, Detector = Peak, Sweep = Auto.
- 4. Allow trace to fully stabilize.
- 5. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.
- 6. Repeat above procedures until all default test channel measured were complete.
- 7. MIMO mode: offset is set following "measure and add 10 Log (N)" on spectrum to measure for MIMO mode. Offset = cable loss + $10 \log (N)$, where N is number of transmitting antenna.

Note:

For test of MIMO mode, the highest emission of worst case employing Measure and add 10 log (N) technical is reported on this report after the comparison between Main Antenna at single transmitting mode and Aux that yields the higher value. The MIMO transmitting mode produces higher value of outcome.

10.4 Measurement Result

802.11b Chu		
Reference Level of Limit		
Freq.	PSD	Reference Level of Limit
(MHz)	(dBm)	(dBm)
2412	12.33	-17.67
2437	13.03	-16.97
2462	11.74	-18.26

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802.11b Ch1

Reference Level of Limit		
Freq.	PSD	Reference Level of Limit
(MHz)	(dBm)	(dBm)
2412	12.38	-17.62
2437	13.37	-16.63
2462	11.57	-18.43

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802.11g Ch0

Reference Level of Limit		
Freq.	PSD	Reference Level of Limit
(MHz)	(dBm)	(dBm)
2412	6.30	-23.70
2437	11.19	-18.81
2462	5.73	-24.27

802.11g Ch1

Reference Level of Limit		
Freq.	PSD	Reference Level of Limit
(MHz)	(dBm)	(dBm)
2412	6.53	-23.47
2437	11.56	-18.44
2462	5.89	-24.11

802.11n HT 20M Ch0

Reference Level of Limit		
Freq.	PSD	Reference Level of Limit
(MHz)	(dBm)	(dBm)
2412	4.80	-25.20
2437	11.01	-18.99
2462	4.79	-25.21

802.11n HT 20M Ch1

Reference Level of Limit			
Freq.	PSD	Reference Level of Limit	
(MHz)	(dBm)	(dBm)	
2412	5.10	-24.90	
2437	11.32	-18.68	
2462	5.01	-24.99	

802.11n HT 40M Ch0

Reference Level of Limit			
Freq.	PSD	Reference Level of Limit	
(MHz)	(dBm)	(dBm)	
2422	-1.38	-31.38	
2437	3.03	-26.97	
2452	0.68	-29.32	

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802.11n_HT_40M Ch1

Reference Level of Limit		
Freq.	PSD	Reference Level of Limit
(MHz)	(dBm)	(dBm)
2422	-1.17	-31.17
2437	3.29	-26.71
2452	0.46	-29.54

802.11be_EHT_20M Ch0

Reference Level of Limit		
Freq.	PSD	Reference Level of Limit
(MHz)	(dBm)	(dBm)
2412	3.60	-26.40
2437	11.04	-18.96
2462	3.77	-26.23

802.11be EHT 20M Ch1

Reference Level of Limit		
Freq.	PSD	Reference Level of Limit
(MHz)	(dBm)	(dBm)
2412	3.79	-26.21
2437	11.37	-18.63
2462	3.73	-26.27

802.11be_EHT_40M Ch0

Reference Level of Limit			
Freq.	PSD	Reference Level of Limit	
(MHz)	(dBm)	(dBm)	
2422	0.25	-29.75	
2437	3.11	-26.89	
2452	0.52	-29.48	

802.11be_EHT_40M Ch1

Reference Level of Limit			
Freq.	PSD	Reference Level of Limit	
(MHz)	(dBm)	(dBm)	
2422	0.08	-29.92	
2437	3.17	-26.83	
2452	0.5	-29.50	

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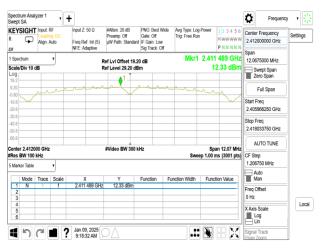
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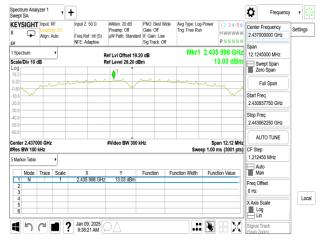
Report No.: TERF2412003977ER Page: 62 of 260



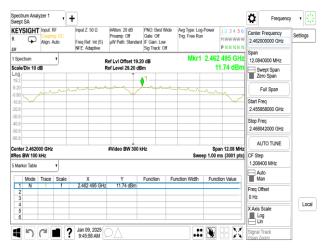
802.11b 20MHz Chain0 2412MHz



802.11b 20MHz Chain0 2437MHz



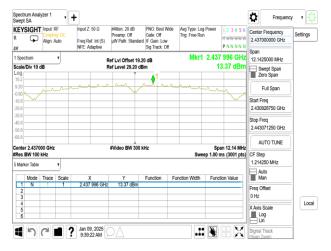
802.11b_20MHz_Chain0_2462MHz



802.11b 20MHz Chain1 2412MHz



802.11b 20MHz Chain1 2437MHz



802.11b 20MHz Chain1 2462MHz

Spectrum Analyzer 1 Swept SA · + Ö Frequency . 1 2 3 4 5 6 M WWWWW 2.46200000 GHz #Atten: 20 dB PNO: Best Wide Preamp: Off Gate: Off µW Path: Standard IF Gain: Low Sig Track: Off KEYSIGHT Input: RF Input Z: 50 Ω Avg Type: Log-Power Trig: Free Run ettings Align: Auto Freq Ref: Int (S) NFE: Adaptive PNNNN Mkr1 2.461 486 GHz Span 12.0420000 MHz Ref Lvi Offset 19.20 dB Ref Level 29.20 dBm Scale/Div 10 dB 11.57 dBr Swept Span Zero Span 6 Full Span Start Freq 2.455979000 GHz Stop Freq 2.468021000 GHz AUTO TUNE CF Step 1.204200 MHz s (3001 pts) Markor Tabl Auto Man Mode Trace Sca Function Width Function Value 2.461 486 GHz 11.57 dBr Freq Offsel 0 Hz Local X Axis Scale Image: Second state Х .# 🔖

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802.11g_20MHz_Chain0_2412MHz



802.11g 20MHz Chain0 2437MHz



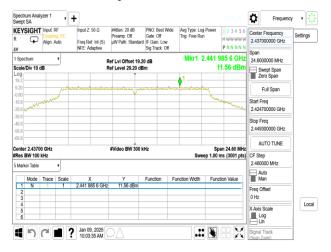
802.11g_20MHz_Chain0_2462MHz



802.11g 20MHz Chain1 2412MHz



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802.11n 20MHz Chain0 2412MHz



802.11n 20MHz Chain0 2437MHz



802.11n_20MHz_Chain0_2462MHz



802.11n 20MHz Chain1 2412MHz



802.11n 20MHz Chain1 2437MHz



802.11n 20MHz Chain1 2462MHz



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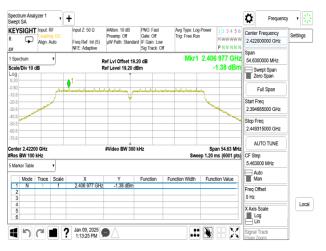
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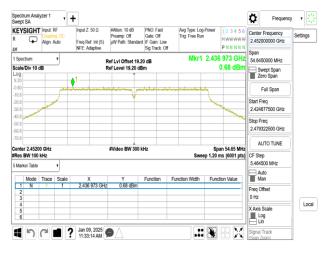
802.11n 40MHz Chain0 2422MHz



802.11n 40MHz Chain0 2437MHz



802.11n_40MHz_Chain0_2452MHz



802.11n 40MHz Chain1 2422MHz



802.11n 40MHz Chain1 2437MHz



802.11n_40MHz_Chain1_2452MHz



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802.11be 20MHz Chain0 2412MHz



802.11be 20MHz Chain0 2437MHz



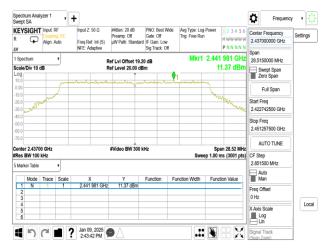
802.11be 20MHz Chain0 2462MHz



802.11be 20MHz Chain1 2412MHz



802.11be 20MHz Chain1 2437MHz



802.11be_20MHz_Chain1_2462MHz



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802.11be 40MHz Chain0 2422MHz



802.11be 40MHz Chain0 2437MHz



802.11be 40MHz Chain0 2452MHz



802.11be 40MHz Chain1 2422MHz



802.11be 40MHz Chain1 2437MHz



802.11be 40MHz Chain1 2452MHz

Spectrum Analyzer 1 Swept SA · + Ö Frequency . Avg Type: Log-Power Trig: Free Run KEYSIGHT Input: RF Input Z: 50 Ω #Atten: 10 dB PNO: Fast Preamp: Off Gate: Off Freq Ref: Int (S) #W Path: Standard IF Gain: Low NFE: Adaptive Sig Track: Off 1 2 3 4 5 6 M WWWWW P N N N N N Span ettings Align: Auto Mkr1 2.446 980 GHz Span 57.3750000 MHz Ref Lvi Offset 19.20 dB Ref Level 19.20 dBm Scale/Div 10 dB 0.50 dBi Swept Span Zero Span Full Span Start Freq 2.423312500 GHz Stop Freq 2.480687500 GHz AUTO TUNE CE 91 6001 pts) 7F Step 5.737500 MHz Markor Tabl Auto Man Mode Trace Scale Function Width Function Value 2.446 980 GHz 0.50 dBm Freq Offsel 0 Hz Local X Axis Scale 日 つ C¹
日 ? Jan 09, 2025 3:27:23 PM Х # 💱

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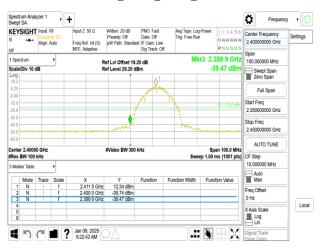
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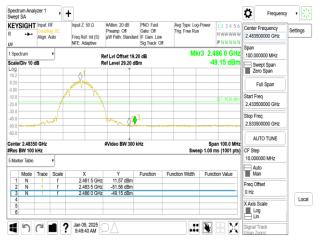
Report No.: TERF2412003977ER Page: 68 of 260



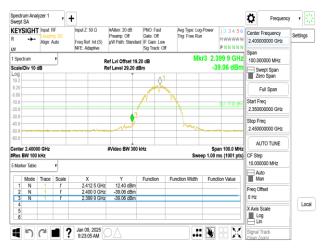
802.11b 20MHz Chain0 2412MHz



802.11b 20MHz Chain0 2462MHz



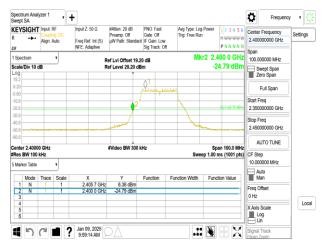
802.11b_20MHz_Chain1_2412MHz



802.11b 20MHz Chain1 2462MHz



802.11g 20MHz Chain0 2412MHz



802.11g_20MHz_Chain0_2462MHz

Spectrum Analyzer 1 Swept SA · + Ö - 24 Frequency Avg Type: Log-Power Trig: Free Point KEYSIGHT Input: RF #Atten: 20 dB Preamp: Off µW Path: Stan Input Z: 50 Ω PNO: Fast Gate: Off Center Frequency 2.483500000 GHz ettings Align: Auto Freq Ref: Int (S) NFE: Adaptive tard IF Gain: Low Sig Track: Of PNNNN Mkr3 2.484 8 GHz Ref Lvi Offset 19.20 dB Ref Level 29.20 dBm . 100.000000 MHz Scale/Div 10 dB -48.35 dB Swept Span Zero Span Full Span Start Freq 2.433500000 GHz Stop Freq 2.533500000 GHz ð AUTO TUNE Span 100.0 MHz 1.00 ms (1001 pts) CF Step Markor Table Auto Man 455 7 GHz Freq Offse 0 Hz 2.483 5 GHz 2.484 8 GHz -48.76 dE -48.35 dE Local X Axis Scale Image: Second state Χ .:: 🔖

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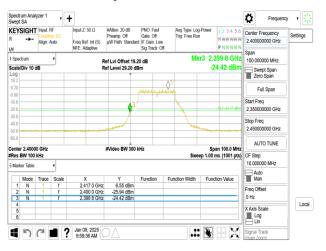
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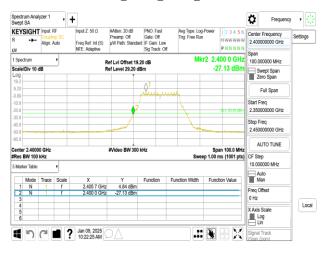
802.11g_20MHz_Chain1_2412MHz



802.11g_20MHz_Chain1_2462MHz



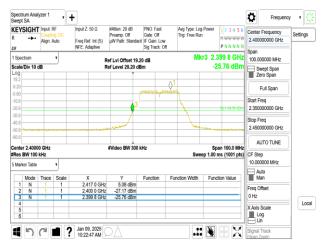
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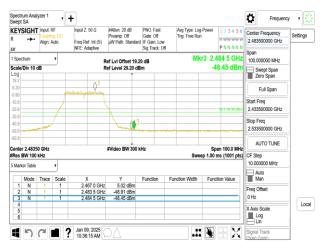
802.11n 20MHz Chain0 2462MHz



802.11n 20MHz Chain1 2412MHz



802.11n_20MHz_Chain1_2462MHz



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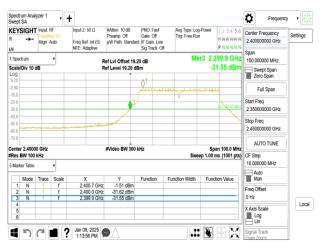
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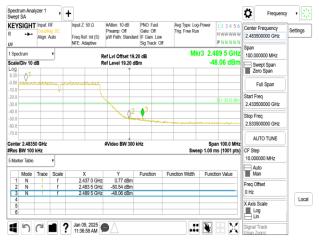
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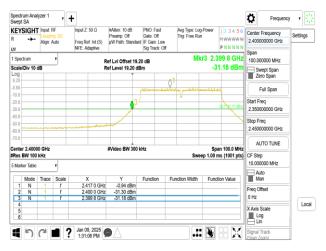
802.11n 40MHz Chain0 2422MHz



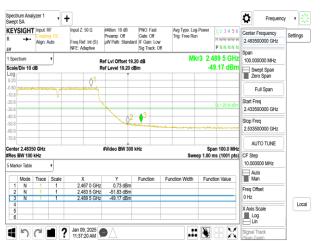
802.11n 40MHz Chain0 2452MHz



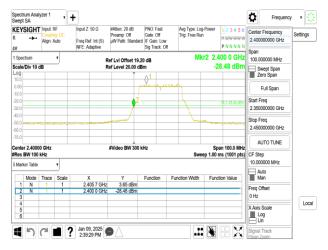
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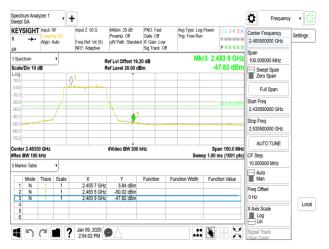
802.11n 40MHz Chain1 2452MHz



802.11be 20MHz Chain0 2412MHz



802.11be_20MHz_Chain0_2462MHz



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