

Plot 7-319. In-Band Emission Plot MIMO ANT1 (160MHz BW 802.11ax/be (26 Tones) (UNII Band 8) - Ch. 207) - LPI

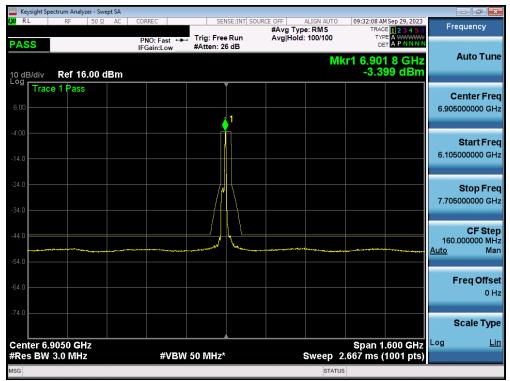


Plot 7-320. In-Band Emission Plot MIMO ANT1 (160MHz BW 802.11ax/be (MRU) (UNII Band 8) - Ch. 207) - LPI - 996+484T

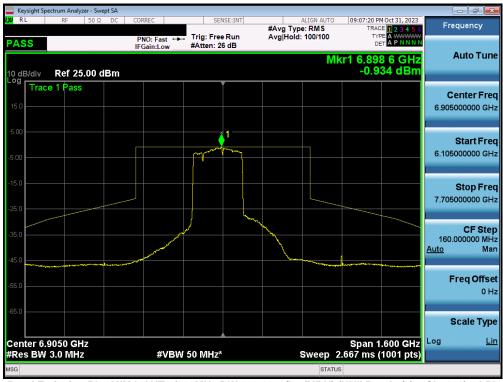
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Plot 7-321. In-Band Emission Plot MIMO ANT1 (320MHz BW 802.11ax/be (26 Tones) (UNII Band 7/8) - Ch. 191) - LPI



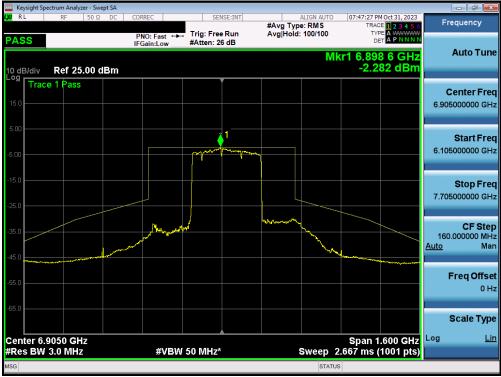
Plot 7-322. In-Band Emission Plot MIMO ANT1 (320MHz BW 802.11ax/be (MRU) (UNII Band 7/8) - Ch. 191) - LPI - 2x996+484T

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Plot 7-323. In-Band Emission Plot MIMO ANT1 (320MHz BW 802.11ax/be (MRU) (UNII Band 7/8) - Ch. 191) - LPI - 3x996T

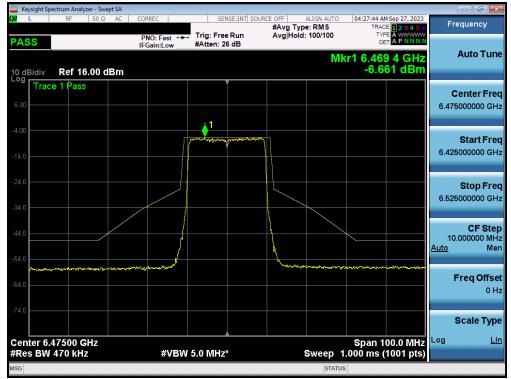


Plot 7-324. In-Band Emission Plot MIMO ANT1 (320MHz BW 802.11ax/be (MRU) (UNII Band 7/8) - Ch. 191) - LPI - 3x996+484T

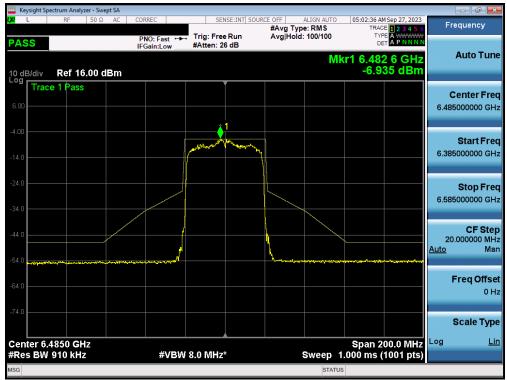
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7.5.2 MIMO Antenna-1 In-Band Emission - (Full Tones) - (UNII Band 6)



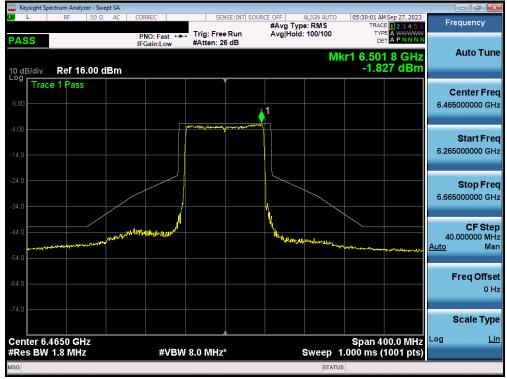
Plot 7-325. In-Band Emission Plot MIMO ANT1 (20MHz BW 802.11ax/be (Full Tone) (UNII Band 6) - Ch. 105) - LPI



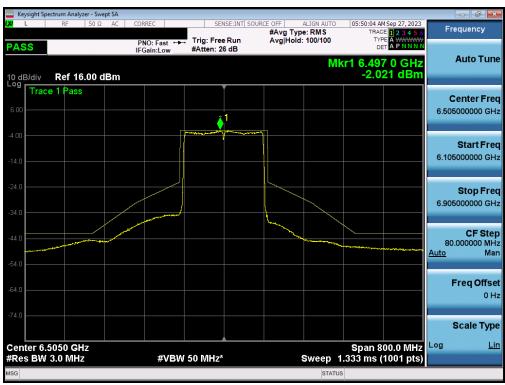
Plot 7-326. In-Band Emission Plot MIMO ANT1 (40MHz BW 802.11ax/be (Full Tone) (UNII Band 6) - Ch. 107) - LPI

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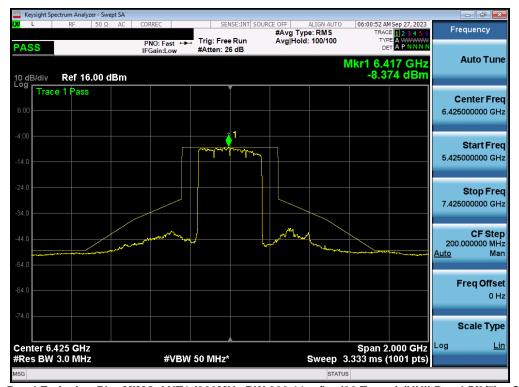
Plot 7-327. In-Band Emission Plot MIMO ANT1 (80MHz BW 802.11ax/be (Full Tone) (UNII Band 6) - Ch. 103) - LPI



Plot 7-328. In-Band Emission Plot MIMO ANT1 (160MHz BW 802.11ax/be (Full Tone) (UNII Band 6) - Ch. 111) - LPI

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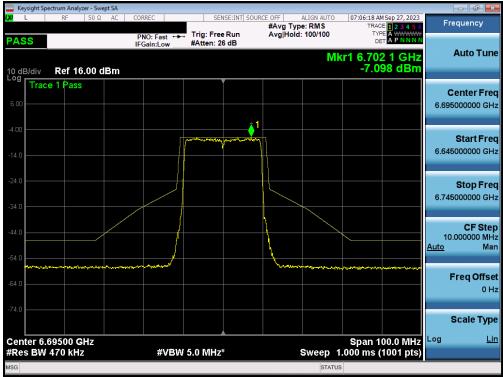


Plot 7-329. In-Band Emission Plot MIMO ANT1 (320MHz BW 802.11ax/be (26 Tones) (UNII Band 5/6/7) - Ch. 95) - LPI

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MIMO Antenna-1 In-Band Emission - (Full Tones) - (UNII Band 7)



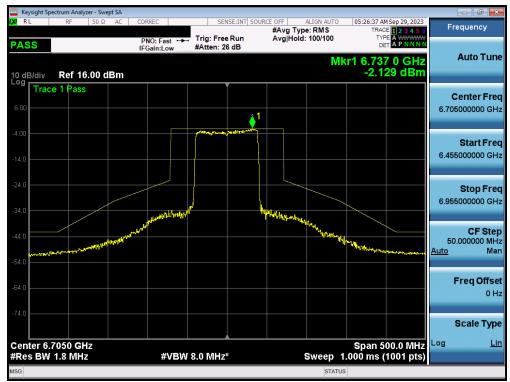
Plot 7-330. In-Band Emission Plot MIMO ANT1 (20MHz BW 802.11ax/be (Full Tone) (UNII Band 7) - Ch. 149) - LPI



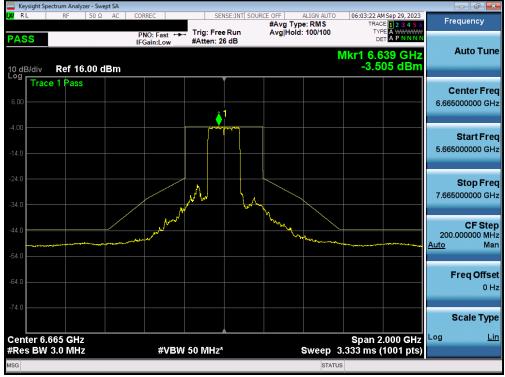
Plot 7-331. In-Band Emission Plot MIMO ANT1 (40MHz BW 802.11ax/be (Full Tone) (UNII Band 7) - Ch. 155) - LPI

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Plot 7-332. In-Band Emission Plot MIMO ANT1 (80MHz BW 802.11ax/be (Full Tone) (UNII Band 7) - Ch. 151) - LPI

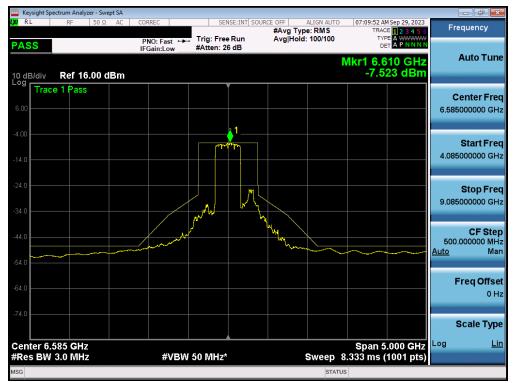


Plot 7-333. In-Band Emission Plot MIMO ANT1 (160MHz BW 802.11ax/be (Full Tone) (UNII Band 7) - Ch. 143) - LPI

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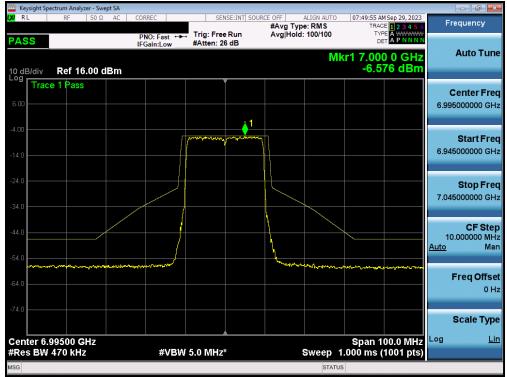


Plot 7-334. In-Band Emission Plot MIMO ANT1 (320MHz BW 802.11ax/be (26 Tones) (UNII Band 6/7) - Ch. 127) - LPI

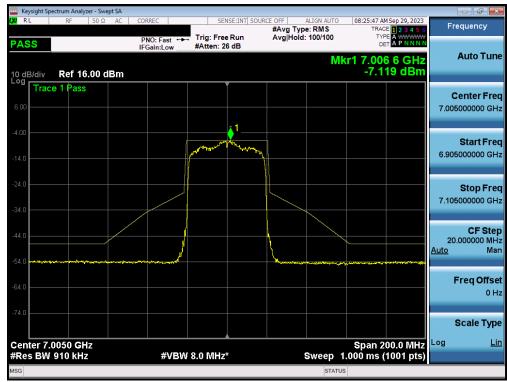
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MIMO Antenna-1 In-Band Emission - (Full Tones) - (UNII Band 8)



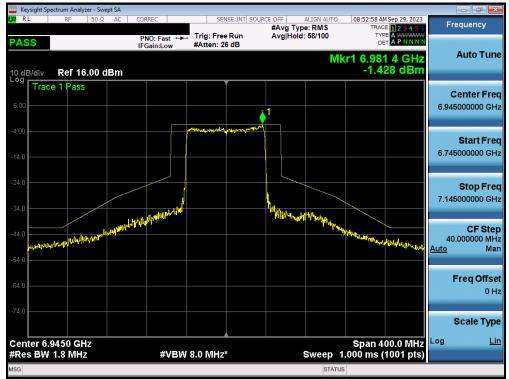
Plot 7-335. In-Band Emission Plot MIMO ANT1 (20MHz BW 802.11ax/be (Full Tone) (UNII Band 8) - Ch. 209) - LPI



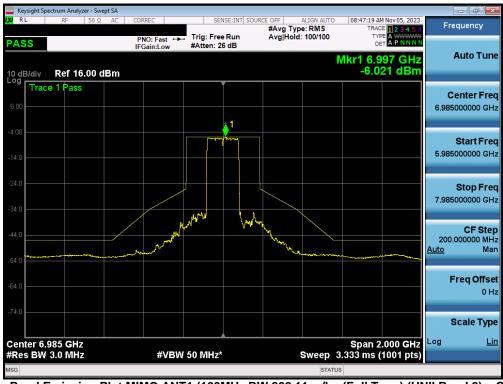
Plot 7-336. In-Band Emission Plot MIMO ANT1 (40MHz BW 802.11ax/be (Full Tone) (UNII Band 8) - Ch. 211) - LPI

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Plot 7-337. In-Band Emission Plot MIMO ANT1 (80MHz BW 802.11ax/be (Full Tone) (UNII Band 8) - Ch. 199) - LPI

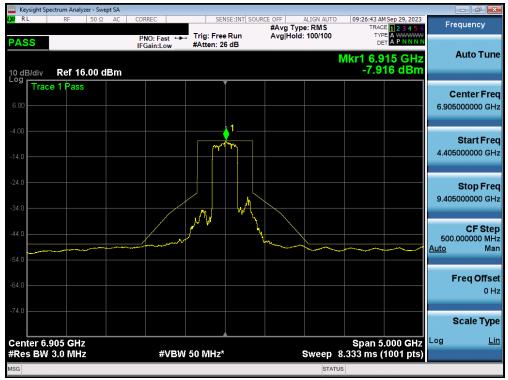


Plot 7-338. In-Band Emission Plot MIMO ANT1 (160MHz BW 802.11ax/be (Full Tone) (UNII Band 8) - Ch. 207) - LPI

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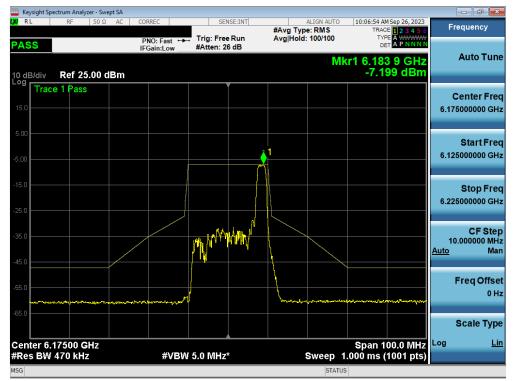


Plot 7-339. In-Band Emission Plot MIMO ANT1 (320MHz BW 802.11ax/be (26 Tones) (UNII Band 8) - Ch. 191) - LPI

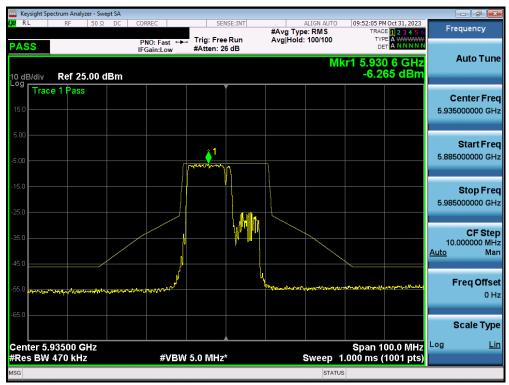
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7.5.3 MIMO Antenna-2 In-Band Emission - (Partial Tones) - (UNII Band 5)



Plot 7-340. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax/be (26 Tones) (UNII Band 5) - Ch. 45) - LPI

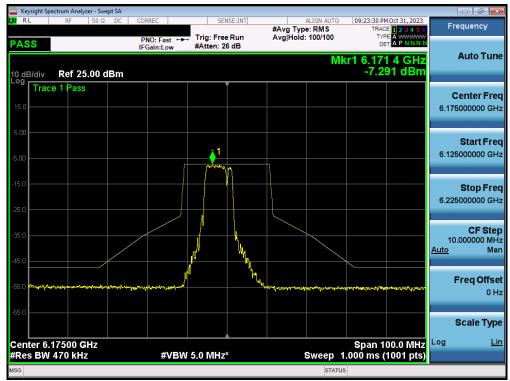


Plot 7-341. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax/be (MRU) (UNII Band 5) - Ch. 2) - LPI - 106+26T

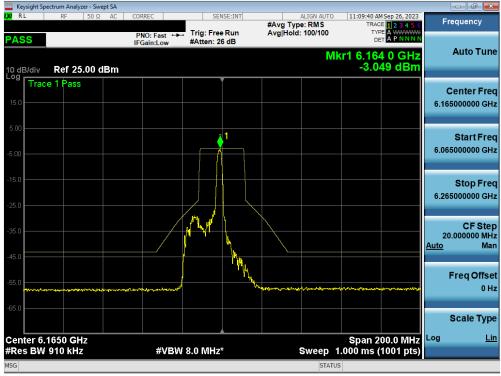
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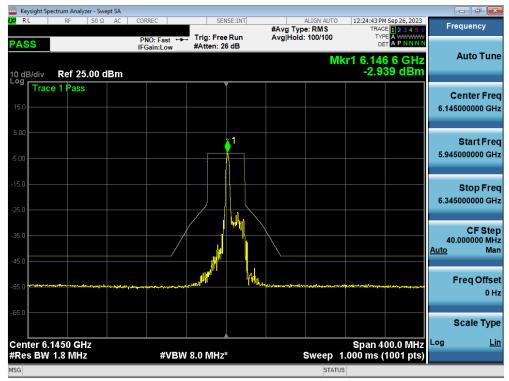
Plot 7-342. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax/be (MRU) (UNII Band 5) - Ch. 45) - LPI - 52+26T



Plot 7-343. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax/be (26 Tones) (UNII Band 5) - Ch. 43) - LPI

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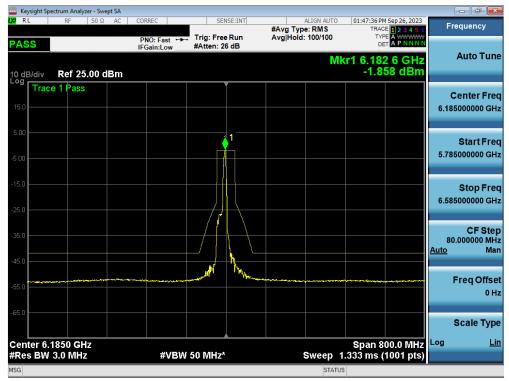
Plot 7-344. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11ax/be (26 Tones) (UNII Band 5) - Ch. 39) - LPI



Plot 7-345. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11ax/be (MRU) (UNII Band 5) - Ch. 39) - LPI - 484+242T

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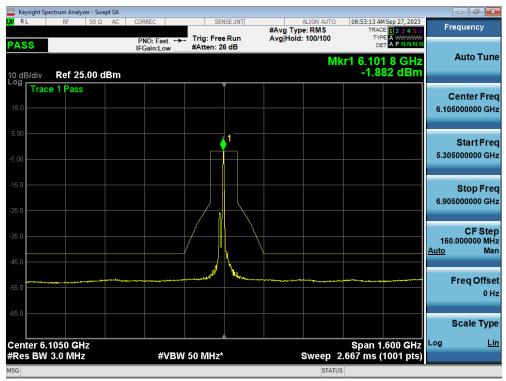
Plot 7-346. In-Band Emission Plot MIMO ANT2 (160MHz BW 802.11ax/be (26 Tones) (UNII Band 5) - Ch. 47) - LPI



Plot 7-347. In-Band Emission Plot MIMO ANT2 (160MHz BW 802.11ax/be (MRU) (UNII Band 5) - Ch. 15) - LPI - 996+484T

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Plot 7-348. In-Band Emission Plot MIMO ANT2 (320MHz BW 802.11ax/be (26 Tones) (UNII Band 5) - Ch. 31) - LPI



Plot 7-349. In-Band Emission Plot MIMO ANT2 (320MHz BW 802.11ax/be (MRU) (UNII Band 5) - Ch. 31) - LPI - 2x996+484T

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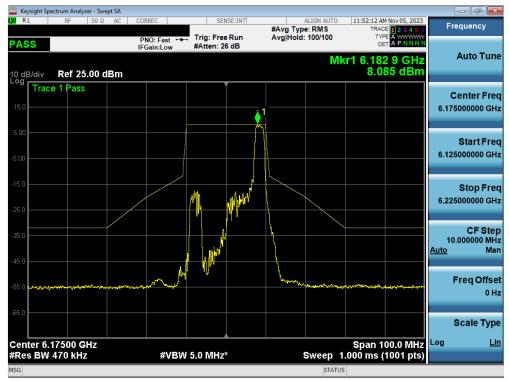
Plot 7-350. In-Band Emission Plot MIMO ANT2 (320MHz BW 802.11ax/be (MRU) (UNII Band 5) - Ch. 31) - LPI - 3x996T



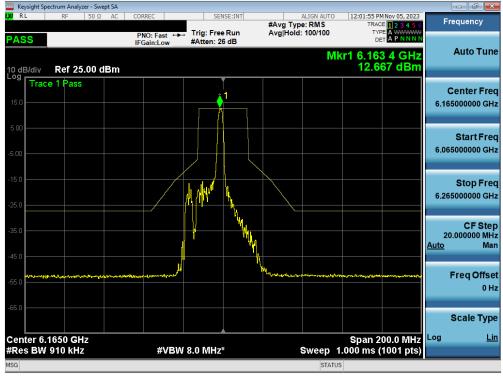
Plot 7-351. In-Band Emission Plot MIMO ANT2 (320MHz BW 802.11ax/be (MRU) (UNII Band 5) - Ch. 31) - LPI - 3x996+484T

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Plot 7-352. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax/be (26 Tones) (UNII Band 5) - Ch. 45) - SP

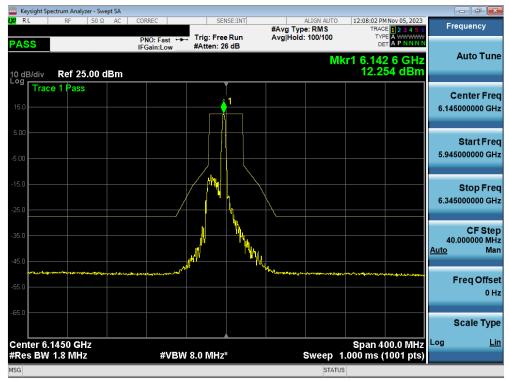


Plot 7-353. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax/be (26 Tones) (UNII Band 5) - Ch. 43) - SP

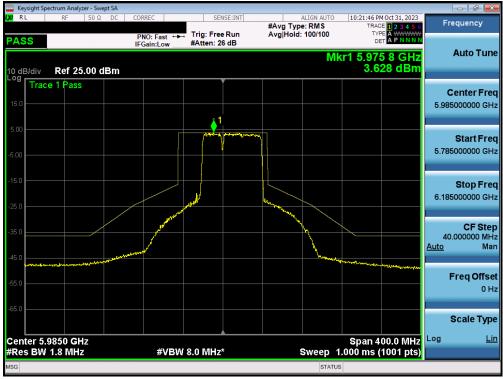
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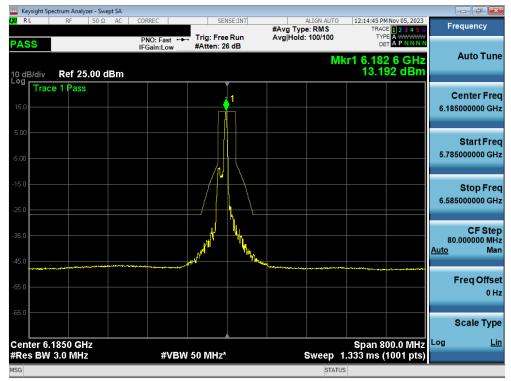
Plot 7-354. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11ax/be (26 Tones) (UNII Band 5) - Ch. 39) - SP



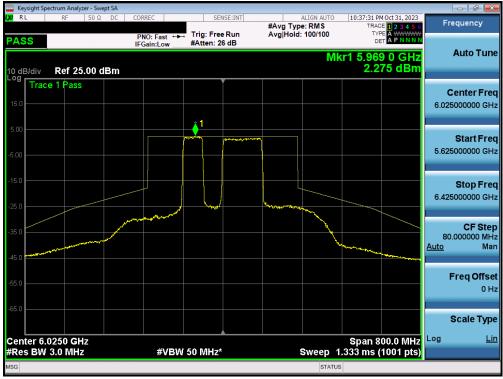
Plot 7-355. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11ax/be (MRU) (UNII Band 5) - Ch. 7) - SP - 484+242T

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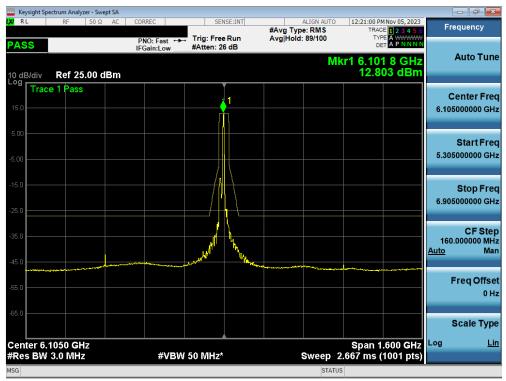
Plot 7-356. In-Band Emission Plot MIMO ANT2 (160MHz BW 802.11ax/be (26 Tones) (UNII Band 5) - Ch. 47) - SP



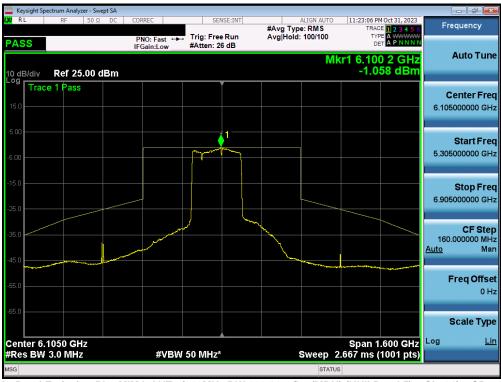
Plot 7-357. In-Band Emission Plot MIMO ANT2 (160MHz BW 802.11ax/be (MRU) (UNII Band 5) - Ch. 47) - SP - 996+484T

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Plot 7-358. In-Band Emission Plot MIMO ANT2 (320MHz BW 802.11ax/be (26 Tones) (UNII Band 5) - Ch. 31) - SP



Plot 7-359. In-Band Emission Plot MIMO ANT2 (320MHz BW 802.11ax/be (MRU) (UNII Band 5) - Ch. 31) - SP - 2x996+484T

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Plot 7-360. In-Band Emission Plot MIMO ANT2 (320MHz BW 802.11ax/be (MRU) (UNII Band 5) - Ch. 31) - SP - 3x996T

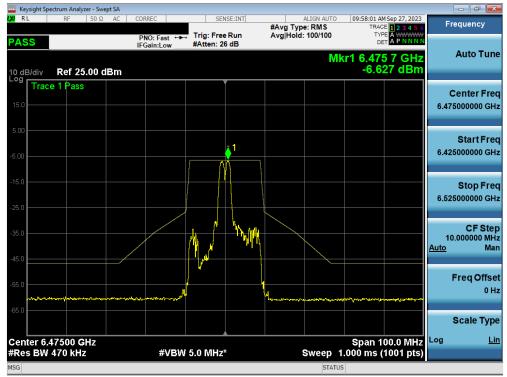


Plot 7-361. In-Band Emission Plot MIMO ANT2 (320MHz BW 802.11ax/be (MRU) (UNII Band 5) - Ch. 31) - SP - 3x996+484T

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MIMO Antenna-1 In-Band Emission - (Partial Tones) - (UNII Band 6)



Plot 7-362. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax/be (26 Tones) (UNII Band 6) - Ch. 105) - LPI



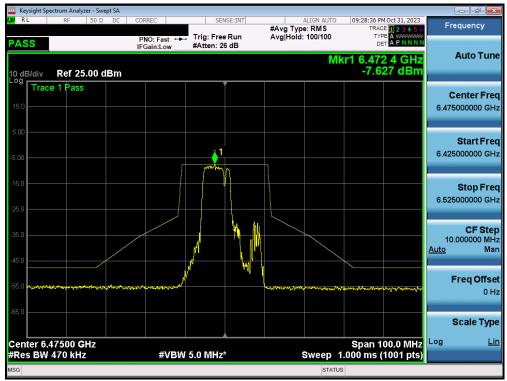
Plot 7-363. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax/be (MRU) (UNII Band 6) - Ch. 105) - LPI - 106+26T

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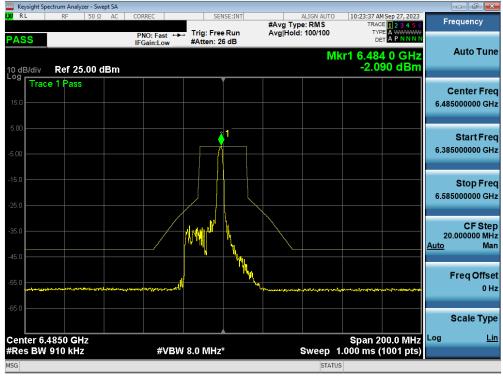
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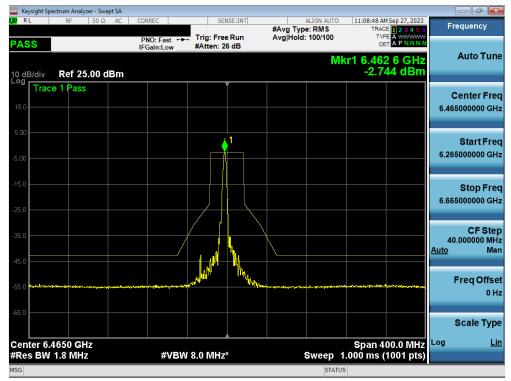
Plot 7-364. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax/be (MRU) (UNII Band 6) - Ch. 105) - LPI - 52+26T



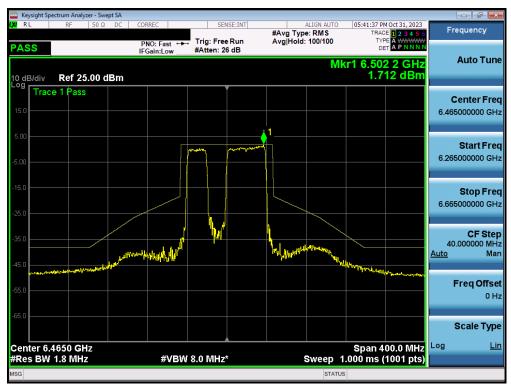
Plot 7-365. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax/be (26 Tones) (UNII Band 6) - Ch. 107) - LPI

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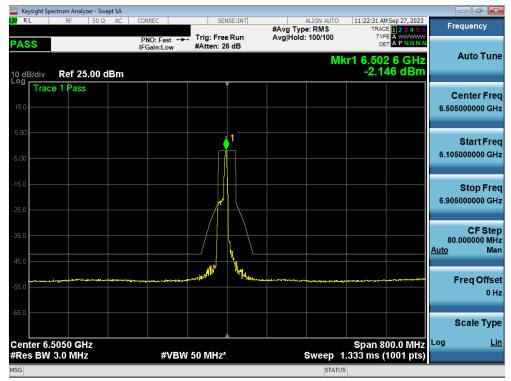
Plot 7-366. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11ax/be (26 Tones) (UNII Band 6) - Ch. 103) - LPI



Plot 7-367. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11ax/be (MRU) (UNII Band 6) - Ch. 103) - LPI - 484+242T

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Plot 7-368. In-Band Emission Plot MIMO ANT2 (160MHz BW 802.11ax/be (26 Tones) (UNII Band 6) - Ch. 111) - LPI

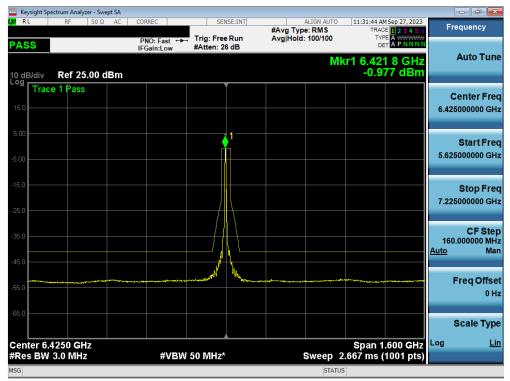


Plot 7-369. In-Band Emission Plot MIMO ANT2 (160MHz BW 802.11ax/be (MRU) (UNII Band 6) - Ch. 111) - LPI - 996+484T

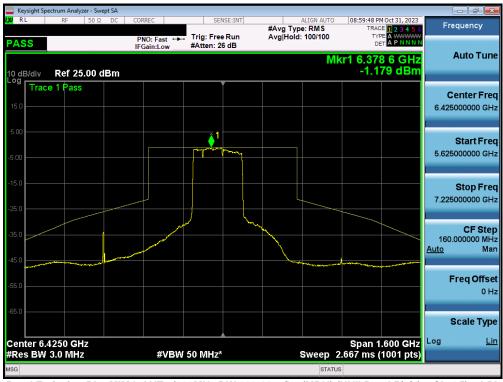
FCC ID: A3LSMS928U	MEASUREMENT REPORT		Approved by: Technical Manager	
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Plot 7-370. In-Band Emission Plot MIMO ANT2 (320MHz BW 802.11ax/be (26 Tones) (UNII Band 5/6/7) - Ch. 95) - LPI



Plot 7-371. In-Band Emission Plot MIMO ANT2 (320MHz BW 802.11ax/be (MRU) (UNII Band 5/6/7) - Ch. 95) - LPI - 2x996+484T

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Plot 7-372. In-Band Emission Plot MIMO ANT2 (320MHz BW 802.11ax/be (MRU) (UNII Band 5/6/7) - Ch. 95) - LPI - 3x996T

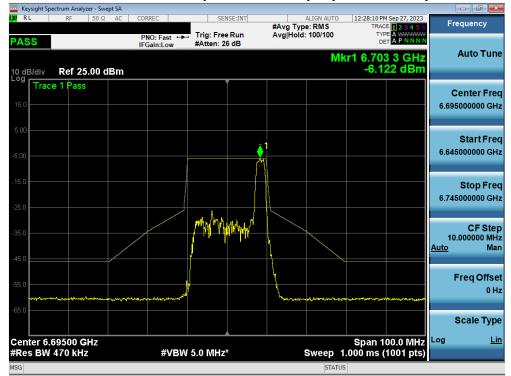


Plot 7-373. In-Band Emission Plot MIMO ANT2 (320MHz BW 802.11ax/be (MRU) (UNII Band 5/6/7) - Ch. 95) - LPI - 3x996+484T

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O COCC EL EMENT			1100000010110010



MIMO Antenna-1 In-Band Emission - (Partial Tones) - (UNII Band 7)



Plot 7-374. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax/be (26 Tones) (UNII Band 7) - Ch. 149) - LPI

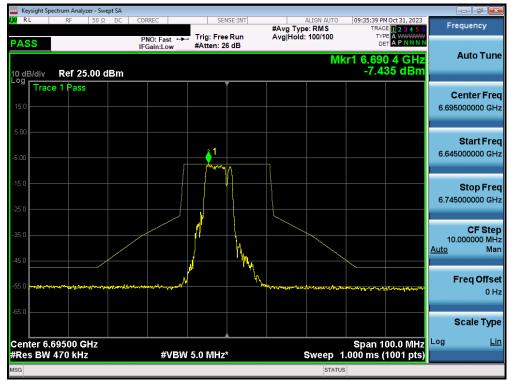


Plot 7-375. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax/be (MRU) (UNII Band 7) - Ch. 149) - LPI - 106+26T

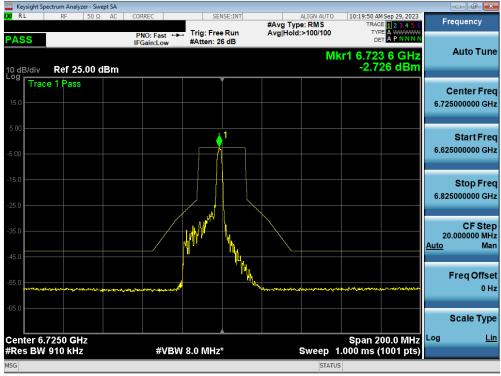
FCC ID: A3LSMS928U	MEASUREMENT REPORT		Approved by: Technical Manager	
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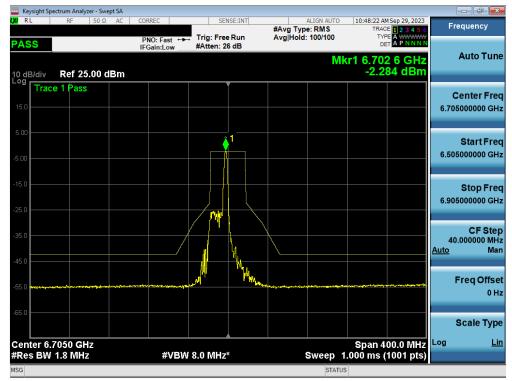
Plot 7-376. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax/be (MRU) (UNII Band 7) - Ch. 149) - LPI - 52+26T



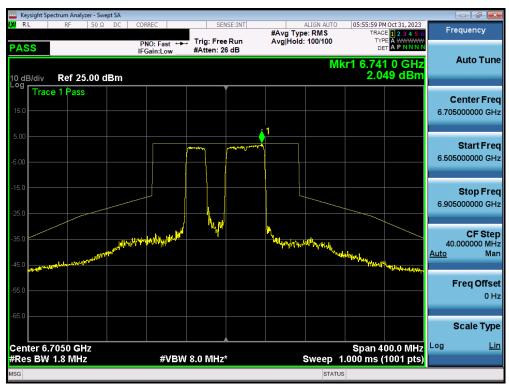
Plot 7-377. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax/be (26 Tones) (UNII Band 7) - Ch. 155) - LPI

FCC ID: A3LSMS928U	MEASUREMENT REPORT		Approved by: Technical Manager	
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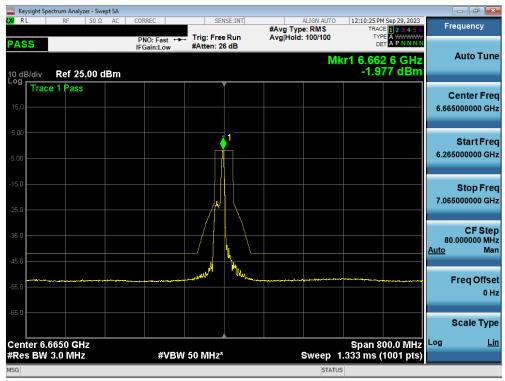
Plot 7-378. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11ax/be (26 Tones) (UNII Band 7) - Ch. 151) - LPI



Plot 7-379. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11ax/be (MRU) (UNII Band 7) - Ch. 151) - LPI - 484+242T

FCC ID: A3LSMS928U	MEASUREMENT REPORT		Approved by: Technical Manager	
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O COOC EL EMENT		•	1/00000101/0010	





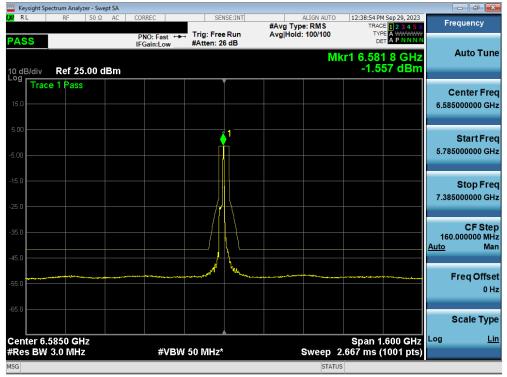
Plot 7-380. In-Band Emission Plot MIMO ANT2 (160MHz BW 802.11ax/be (26 Tones) (UNII Band 7) - Ch. 143) - LPI



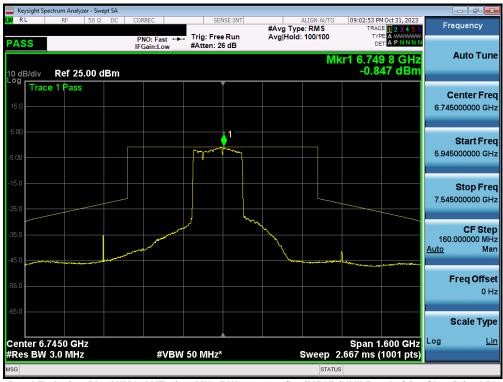
Plot 7-381. In-Band Emission Plot MIMO ANT2 (160MHz BW 802.11ax/be (MRU) (UNII Band 7) - Ch. 143) - LPI - 996+484T

FCC ID: A3LSMS928U	MEASUREMENT REPORT		Approved by: Technical Manager	
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O COOC EL EMENT			1100000010110010	





Plot 7-382. In-Band Emission Plot MIMO ANT2 (320MHz BW 802.11ax/be (26 Tones) (UNII Band 6/7) - Ch. 127) - LPI



Plot 7-383. In-Band Emission Plot MIMO ANT2 (320MHz BW 802.11ax/be (MRU) (UNII Band 6/7) - Ch. 159) - LPI - 2x996+484T

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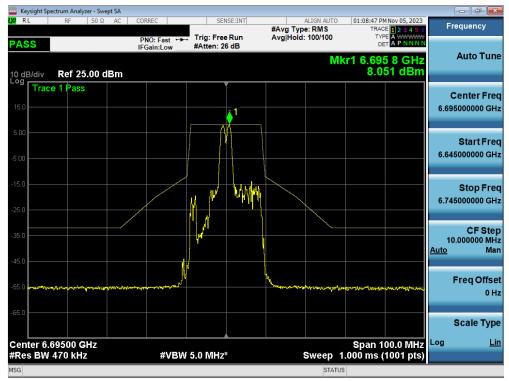
Plot 7-384. In-Band Emission Plot MIMO ANT2 (320MHz BW 802.11ax/be (MRU) (UNII Band 6/7) - Ch. 127) - LPI - 3x996T



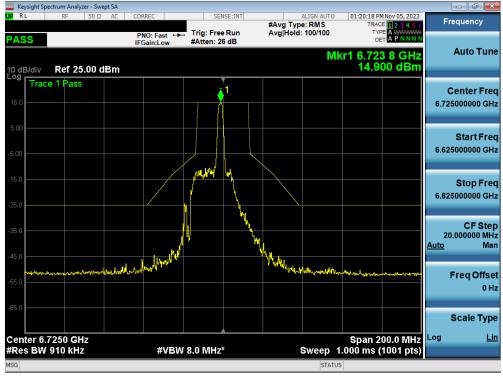
Plot 7-385. In-Band Emission Plot MIMO ANT2 (320MHz BW 802.11ax/be (MRU) (UNII Band 6/7) - Ch. 127) - LPI - 3x996+484T

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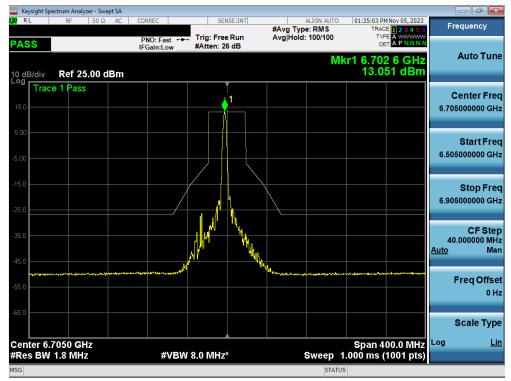
Plot 7-386. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax/be (26 Tones) (UNII Band 7) - Ch. 149) - SP



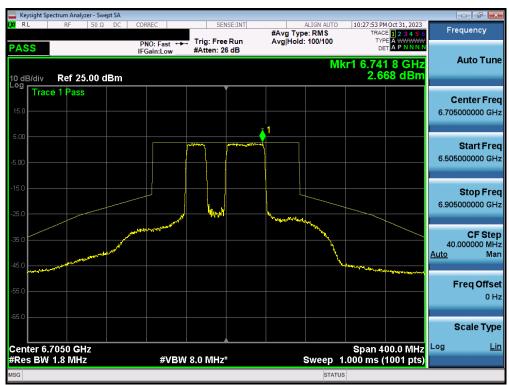
Plot 7-387. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax/be (26 Tones) (UNII Band 7) - Ch. 155) - SP

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O COOR EL EMENT			1100000010110010	





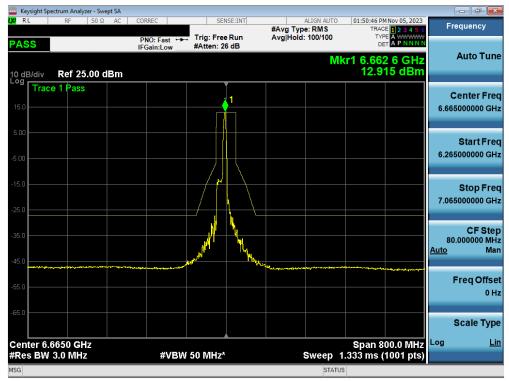
Plot 7-388. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11ax/be (26 Tones) (UNII Band 7) - Ch. 151) - SP



Plot 7-389. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11ax/be (MRU) (UNII Band 7) - Ch. 151) - SP - 484+242T

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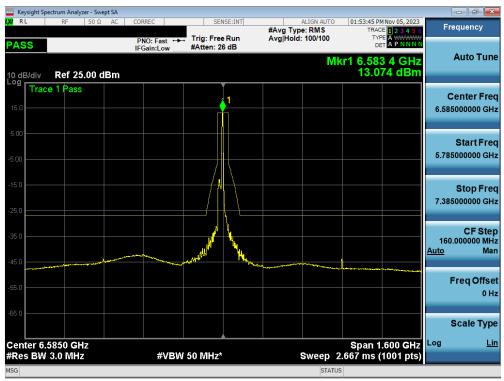
Plot 7-390. In-Band Emission Plot MIMO ANT2 (160MHz BW 802.11ax/be (26 Tones) (UNII Band 7) - Ch. 143) - SP



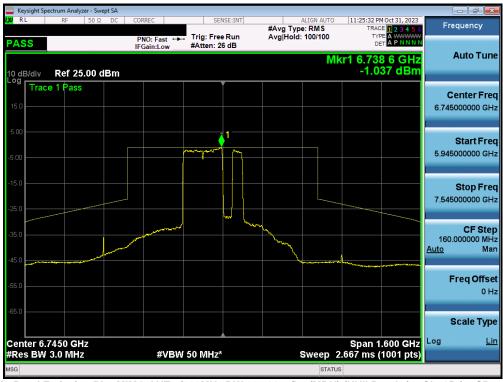
Plot 7-391. In-Band Emission Plot MIMO ANT2 (160MHz BW 802.11ax/be (MRU) (UNII Band 7) - Ch. 143) - SP - 996+484T

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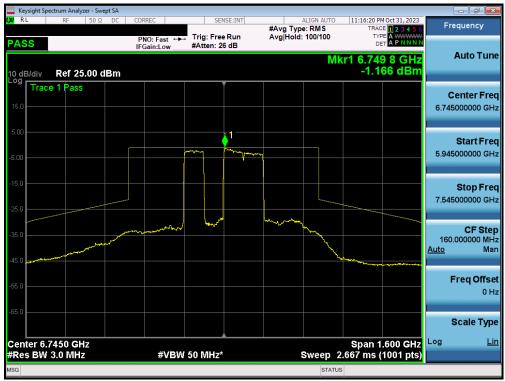
Plot 7-392. In-Band Emission Plot MIMO ANT2 (320MHz BW 802.11ax/be (26 Tones) (UNII Band 6/7) - Ch. 127) - SP



Plot 7-393. In-Band Emission Plot MIMO ANT2 (320MHz BW 802.11ax/be (MRU) (UNII Band 7) - Ch. 159) - SP - 2x996+484T

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Plot 7-394. In-Band Emission Plot MIMO ANT2 (320MHz BW 802.11ax/be (MRU) (UNII Band 7) - Ch. 159) - SP - 3x996T

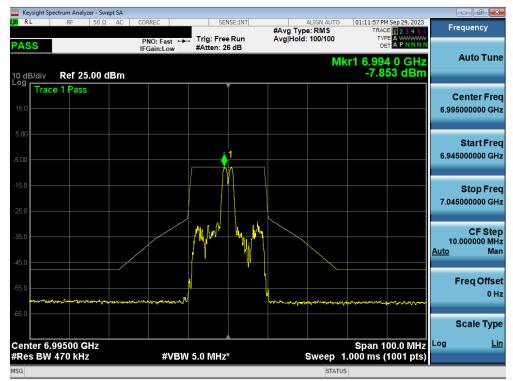


Plot 7-395. In-Band Emission Plot MIMO ANT2 (320MHz BW 802.11ax/be (MRU) (UNII Band 7) - Ch. 159) - SP - 3x996+484T

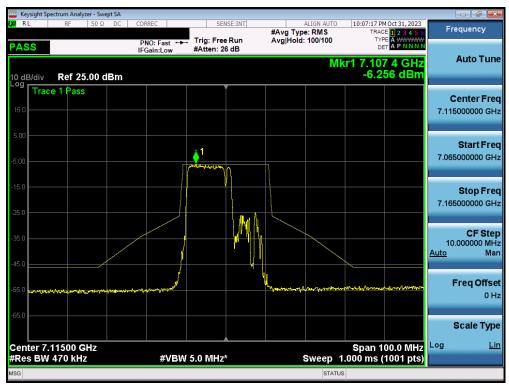
FCC ID: A3LSMS928U	MEASUREMENT REPORT		Approved by: Technical Manager	
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MIMO Antenna-1 In-Band Emission - (Partial Tones) - (UNII Band 8)



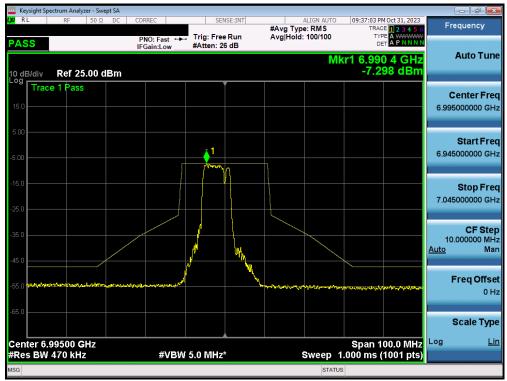
Plot 7-396. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax/be (26 Tones) (UNII Band 8) - Ch. 209) - LPI



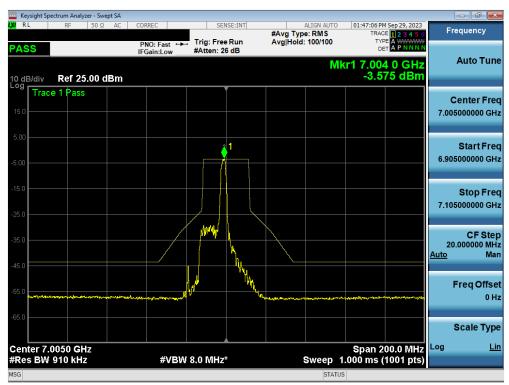
Plot 7-397. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax/be (MRU) (UNII Band 8) - Ch. 233) - LPI - 106+26T

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O COOR EL EMENT			1100000010110010	





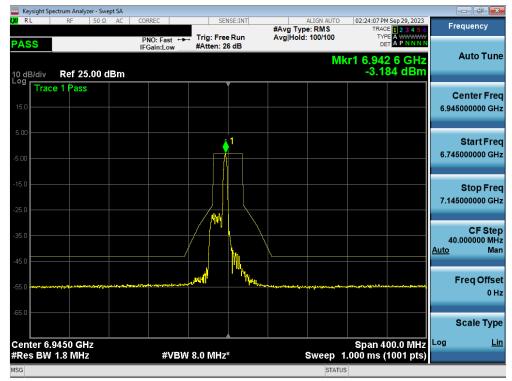
Plot 7-398. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax/be (MRU) (UNII Band 8) - Ch. 209) - LPI - 52+26T



Plot 7-399. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax/be (26 Tones) (UNII Band 8) - Ch. 211) - LPI

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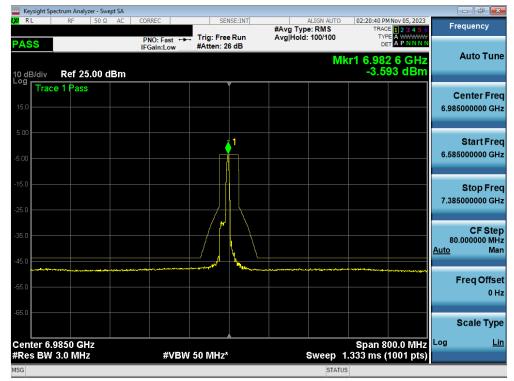
Plot 7-400. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11ax/be (26 Tones) (UNII Band 8) - Ch. 199) - LPI



Plot 7-401. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11ax/be (MRU) (UNII Band 8) - Ch. 215) - LPI - 484+242T

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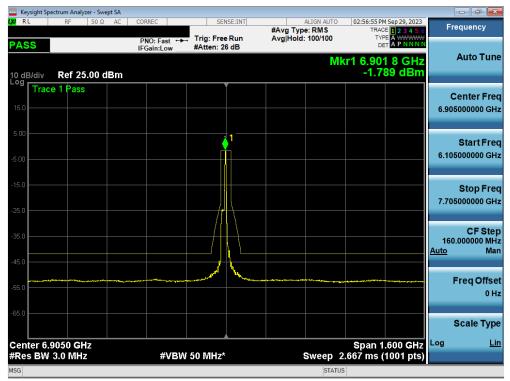
Plot 7-402. In-Band Emission Plot MIMO ANT2 (160MHz BW 802.11ax/be (26 Tones) (UNII Band 8) - Ch. 207) - LPI



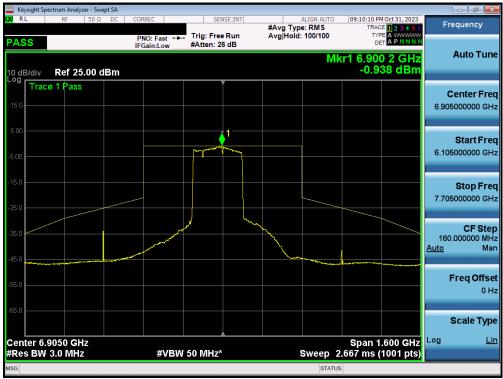
Plot 7-403. In-Band Emission Plot MIMO ANT2 (160MHz BW 802.11ax/be (MRU) (UNII Band 8) - Ch. 207) - LPI - 966+484T

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Plot 7-404. In-Band Emission Plot MIMO ANT2 (320MHz BW 802.11ax/be (26 Tones) (UNII Band 7/8) - Ch. 191) - LPI



Plot 7-405. In-Band Emission Plot MIMO ANT2 (320MHz BW 802.11ax/be (MRU) (UNII Band 7/8) - Ch. 191) - LPI - 2x996+484T

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Plot 7-406. In-Band Emission Plot MIMO ANT2 (320MHz BW 802.11ax/be (MRU) (UNII Band 7/8) - Ch. 191) - LPI - 3x996T

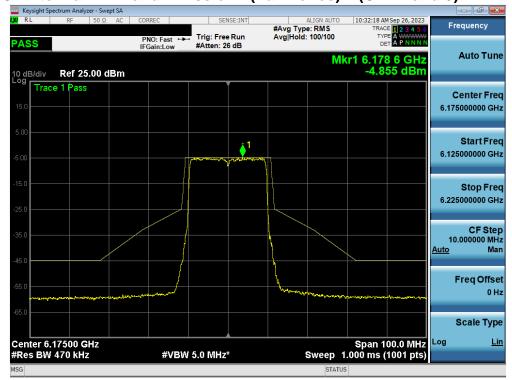


Plot 7-407. In-Band Emission Plot MIMO ANT2 (320MHz BW 802.11ax/be (MRU) (UNII Band 7/8) - Ch. 191) - LPI - 3x996+484T

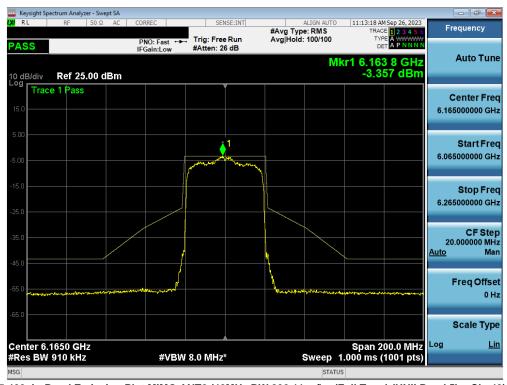
FCC ID: A3LSMS928U	MEASUREMENT REPORT		Approved by: Technical Manager	
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7.5.4 MIMO Antenna-2 In-Band Emission - (Full Tones) - (UNII Band 5)



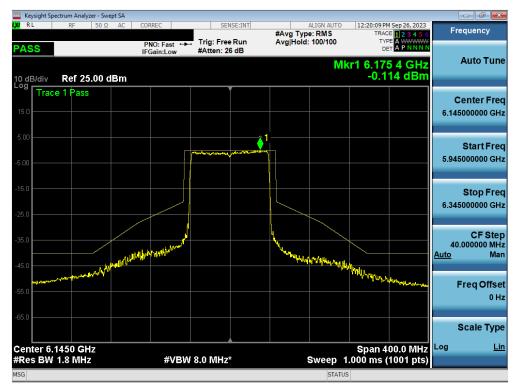
Plot 7-408. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax/be (Full Tone) (UNII Band 5) - Ch. 45) - LPI



Plot 7-409. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax/be (Full Tone) (UNII Band 5) - Ch. 43) - LPI

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Plot 7-410. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11ax/be (Full Tone) (UNII Band 5) - Ch. 39) - LPI



Plot 7-411. In-Band Emission Plot MIMO ANT2 (160MHz BW 802.11ax/be (Full Tone) (UNII Band 5) - Ch. 47) - LPI

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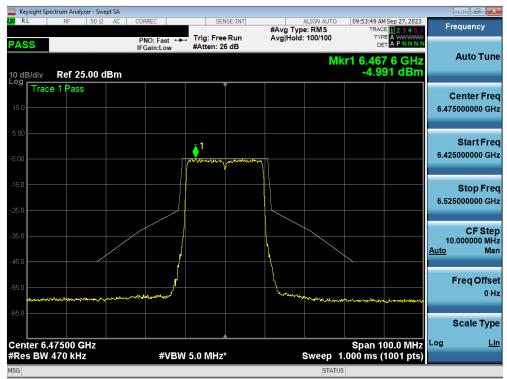


Plot 7-412. In-Band Emission Plot MIMO ANT2 (320MHz BW 802.11ax/be (26 Tones) (UNII Band 5) - Ch. 31) - LPI

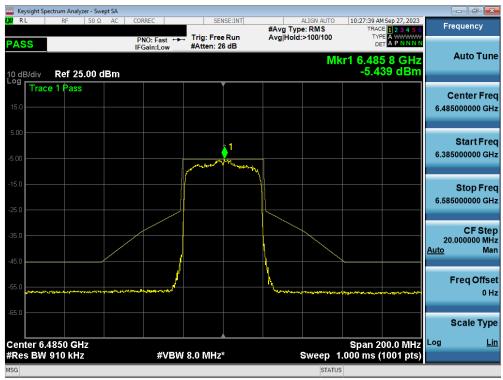
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O COCC EL EMENT			1100000010110010



MIMO Antenna-2 In-Band Emission - (Full Tones) - (UNII Band 6)



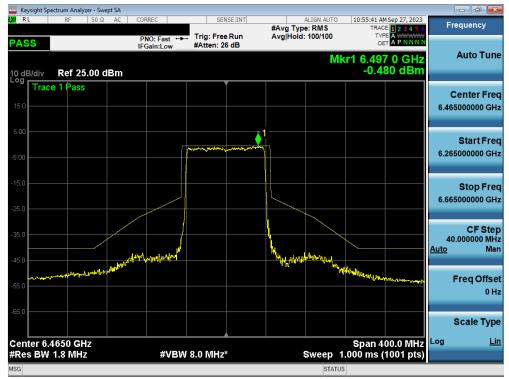
Plot 7-413. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax/be (Full Tone) (UNII Band 6) - Ch. 105) - LPI



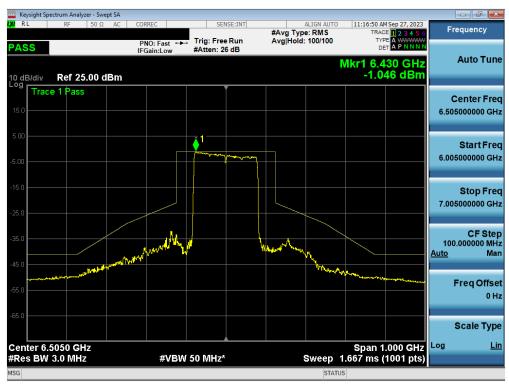
Plot 7-414. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax/be (Full Tone) (UNII Band 6) - Ch. 107) - LPI

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Plot 7-415. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11ax/be (Full Tone) (UNII Band 6) - Ch. 103) - LPI



Plot 7-416. In-Band Emission Plot MIMO ANT2 (160MHz BW 802.11ax/be (Full Tone) (UNII Band 6) - Ch. 111) - LPI

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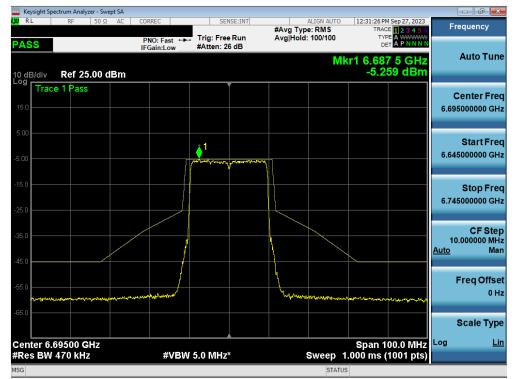


Plot 7-417. In-Band Emission Plot MIMO ANT2 (320MHz BW 802.11ax/be (26 Tones) (UNII Band 5/6/7) - Ch. 95) - LPI

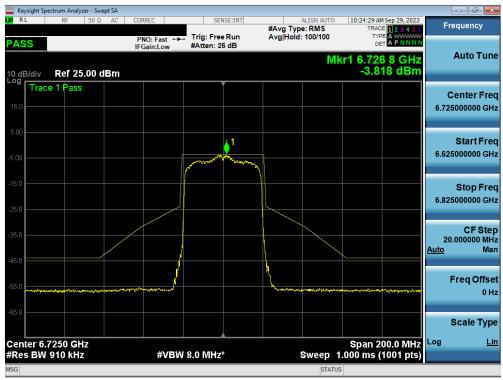
FCC ID: A3LSMS928U	MEASUREMENT REPORT		Approved by: Technical Manager	
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MIMO Antenna-2 In-Band Emission - (Full Tones) - (UNII Band 7)



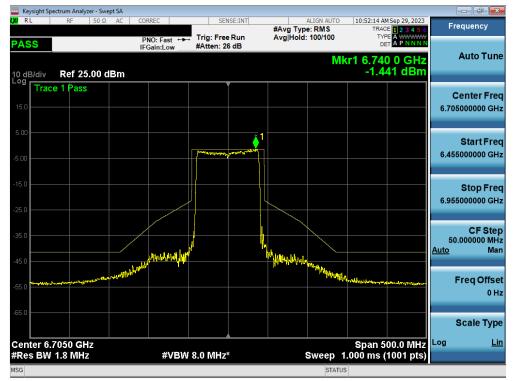
Plot 7-418. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax/be (Full Tone) (UNII Band 7) - Ch. 149) - LPI



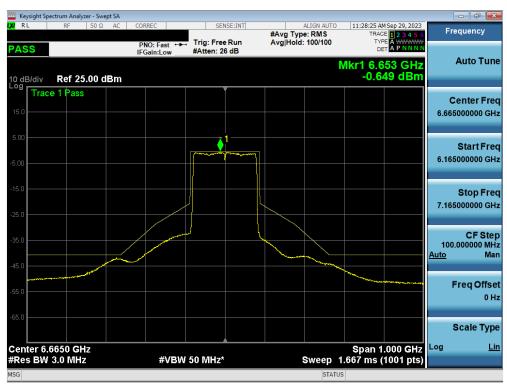
Plot 7-419. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax/be (Full Tone) (UNII Band 7) - Ch. 155) - LPI

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Plot 7-420. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11ax/be (Full Tone) (UNII Band 7) - Ch. 151) - LPI

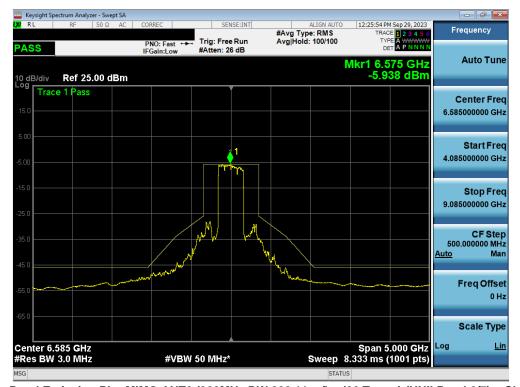


Plot 7-421. In-Band Emission Plot MIMO ANT2 (160MHz BW 802.11ax/be (Full Tone) (UNII Band 7) - Ch. 143) - LPI

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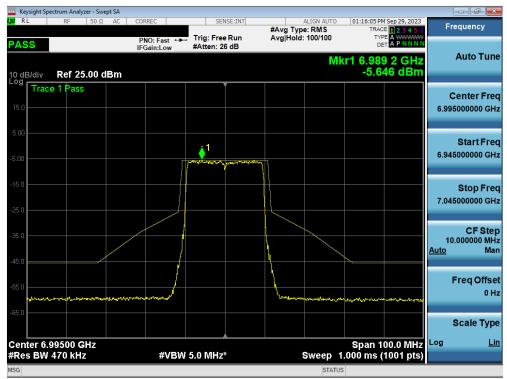


Plot 7-422. In-Band Emission Plot MIMO ANT2 (320MHz BW 802.11ax/be (26 Tones) (UNII Band 6/7) - Ch. 127) - LPI

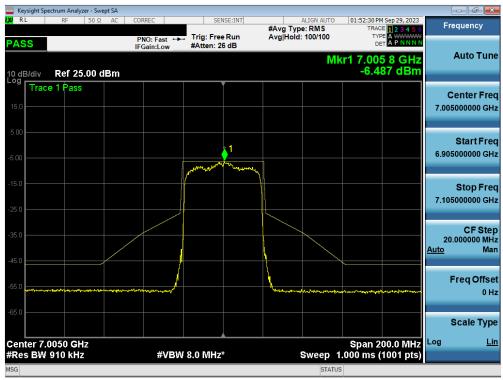
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MIMO Antenna-2 In-Band Emission - (Full Tones) - (UNII Band 8)



Plot 7-423. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax/be (Full Tone) (UNII Band 8) - Ch. 209) - LPI



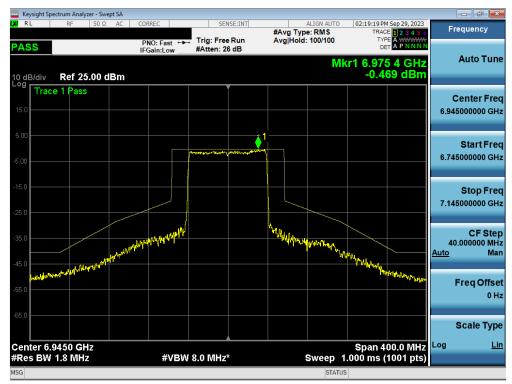
Plot 7-424. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax/be (Full Tone) (UNII Band 8) - Ch. 211) - LPI

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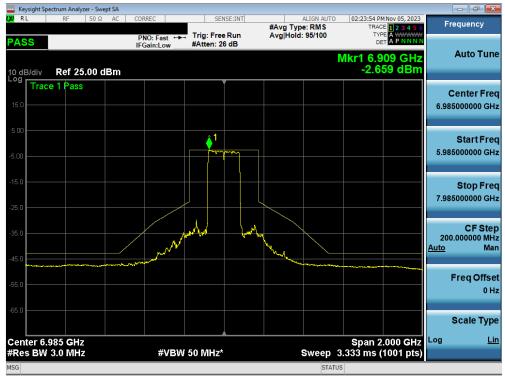
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Plot 7-425. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11ax/be (Full Tone) (UNII Band 8) - Ch. 199) - LPI

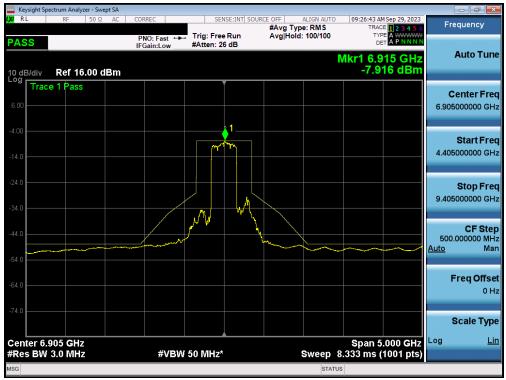


Plot 7-426. In-Band Emission Plot MIMO ANT2 (160MHz BW 802.11ax/be (Full Tone) (UNII Band 8) - Ch. 207) - LPI

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Plot 7-427. In-Band Emission Plot MIMO ANT2 (320MHz BW 802.11ax/be (26 Tones) (UNII Band 8) - Ch. 191) - LPI

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7.6 Contention Based Protocol

Test Overview and Limit

Indoor access points, subordinate devices and client devices operating in the 5.925-7.125 GHz band (herein referred to as unlicensed devices) are required to use technologies that include a contention-based protocol to avoid co-channel interference with incumbent devices sharing the band. To ensure incumbent co-channel operations are detected in a technology-agnostic manner, unlicensed devices are required to detect co-channel radio frequency energy (energy detect) and avoid simultaneous transmission.

Unlicensed indoor low-power devices must detect co-channel radio frequency power that is at least -62 dBm or lower. Upon detection of energy in the band, unlicensed low power indoor devices must vacate the channel and stay off the channel if detected radio frequency power is equal to or greater than the threshold (-62 dBm). The -62 dBm (or lower) threshold is referenced to a 0 dBi antenna gain.

To ensure incumbent operations are reliably detected in the band, low power indoor devices must detect RF energy throughout their intended operating channel.

Test Procedure Used

KDB 987594 D02 v01r01

Test Settings

- 1. Configure the EUT to transmit with a constant duty cycle.
- 2. Set the operating parameters of the EUT including power level, operating frequency, modulation, and bandwidth.
- 3. Set the signal analyzer center frequency to the nominal EUT channel center frequency. The span range of the signal analyzer shall be between two times and five times the OBW of the EUT. Connect the output port of the EUT to the signal analyzer 2. Ensure that the attenuator 2 provides enough attenuation to not overload the signal analyzer 2 receiver.
- 4. Monitoring the signal analyzer 2, verify the EUT is operating and transmitting with the parameters set at step two.
- 5. Using an AWGN signal source, generate (but do not transmit, i.e., RF OFF) a 10 MHz-wide AWGN signal. Use Table 1 to determine the center frequency of the 10 MHz AWGN signal relative to the EUT's channel bandwidth and center frequency.
- Set the AWGN signal power to an extremely low level (more than 20 dB below the -62 dBm threshold). Connect the AWGN signal source, via a 3-dB splitter, to the signal analyzer 1 and the EUT as shown in Figure 2.
- 7. Transmit the AWGN signal (RF ON) and verify its characteristics on the signal analyzer 1.
- 8. Monitor the signal analyzer 2 to verify if the AWGN signal has been detected and the EUT has ceased transmission. If the EUT continues to transmit, then incrementally increase the AWGN signal power level until the EUT stops transmitting.
- 9. (Including all losses in the RF paths) Determine and record the AWGN signal power level (at the EUT's antenna port) at which the EUT ceased transmission. Repeat the procedure at least 10 times to verify the EUT can detect an AWGN signal with 90% (or better) level of certainty.
- 10. Refer to Table 1 of KDB 987594 D02 v01r01 to determine the number of times the detection threshold testing needs to be repeated. If testing is required more than once, then go back to step 5, choose a different center frequency for the AWGN signal, and repeat the process.

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Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

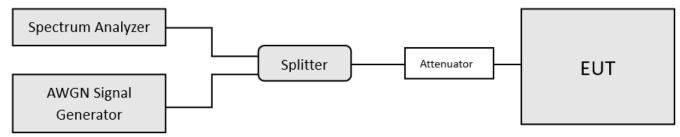


Figure 7-5. Contention-based protocol test setup, conducted method

Test Notes

- Per guidance from KDB 987594 D02 v01r01, contention based protocol was tested using an AWGN signal with a bandwidth of 10MHz (see Plot 7-428). The amplitude of the signal was increased until detected by the EUT, signaled by the ceasing of transmission (see Plot 7-429), M1 indicates the point at which the AWGN signal is introduced. D1 indicates where the AWGN signal is terminated, at least 10 seconds following M1.
- 2. 15 trials were run in order to ensure certainty of 90%
- 3. Per Guidance from KDB 987594 D04 v01, contention based protocol was tested with receiver with the lowest antenna gain.
- 4. All CBP Timing Plots shown are for the ceased condition. Some spikes that may be shown are from adjacent portions of the spectrum that are still transmitting.
- 5. In the presence of an AWGN signal, the EUT was shown to completely move out of the channel for the purpose of incumbent avoidance. Representative channel move plots are included for one sub-band to show how the channel reduces when the AWGN is injected at the lower edge, the center, and the upper edge of a channel.
- 6. For the channel move demonstration in Section 7.6.3, only plots from UNII-5 band are included. Additionally, the AWGN signal is not visible because the AWGN level is well below the noise floor.

Detection Level = Injected AWGN Power (dBm) - Antenna Gain (dBi) + Path Loss (dB)

Equation 7-1. Detection Level Calculation

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Band	Channel	Channel Freq [MHz]	Channel BW [MHz]	Incumbent Freq [MHz]	Injected (AWGN) [dBm]	Antenna Gain [dBi]	Adjusted Power Level [dBm]	Detection Limit [dBm]	Margin [dB]
	53	6215	20	6215	-84.41	-6.22	-78.19	-62.0	-16.19
UNII				6110	-83.29	-6.22	-77.07	-62.0	-15.07
Band 5	31	6265	320	6265	-79.92	-6.22	-73.70	-62.0	-11.70
				6420	-80.96	-6.22	-74.74	-62.0	-12.74
	101	6455	20	6455	-82.29	-6.52	-75.77	-62.0	-13.77
UNII				6270	-84.71	-6.52	-78.19	-62.0	-16.19
Band 6	95	6425	320	6425	-77.76	-6.52	-71.24	-62.0	-9.24
				6580	-83.55	-6.52	-77.03	-62.0	-15.03
	149	6695	20	6695	-69.63	-7.11	-62.52	-62.0	-0.52
UNII				6590	-86.12	-7.11	-79.01	-62.0	-17.01
Band 7	159	6745	320	6745	-70.49	-7.11	-63.38	-62.0	-1.38
				6900	-81.92	-7.11	-74.81	-62.0	-12.81
	197	6935	20	6935	-78.23	-8.41	-69.82	-62.0	-7.82
UNII				6750	-87.47	-8.41	-79.06	-62.0	-17.06
Band 8	191	6905	320	6905	-78.36	-8.41	-69.95	-62.0	-7.95
				7060	-82.30	-8.41	-73.89	-62.0	-11.89

Table 7-52. Contention Based Protocol – Incumbent Detection Results

			Channel BW [MHz]			EUT	Transmission S			
		Channel Freq [MHz]		Incumbent Freq [MHz]	Antenna Gain [dBi]	Adjuste	d AWGN Powe	Detection		
Band	Channel					Normal	Minimal	Ceased	Limit [dBm]	Margin [dB]
	53	6215	20	6215	-6.22	-80.65	-79.66	-78.19	-62.0	-16.19
UNII				6190	-6.22	-78.72	-78.56	-77.07	-62.0	-15.07
Band 5	31	6265	320	6265	-6.22	-75.97	-75.42	-73.70	-62.0	-11.70
				6340	-6.22	-77.21	-76.71	-74.74	-62.0	-12.74
	101	6455	20	6455	-6.52	-77.48	-76.08	-75.77	-62.0	-13.77
UNII				6350	-6.52	-81.00	-80.05	-78.19	-62.0	-16.19
Band 6	95	6425	320	6425	-6.52	-73.41	-72.43	-71.24	-62.0	-9.24
				6500	-6.52	-78.47	-77.11	-77.03	-62.0	-15.03
	149	6695	20	6695	-7.11	-64.98	-64.07	-62.52	-62.0	-0.52
UNII				6670	-7.11	-81.26	-79.56	-79.01	-62.0	-17.01
Band 7	159	6745	320	6745	-7.11	-65.16	-65.02	-63.38	-62.0	-1.38
				6820	-7.11	-76.50	-75.73	-74.81	-62.0	-12.81
	197	6935	20	6935	-8.41	-70.84	-70.64	-69.82	-62.0	-7.82
UNII				6830	-8.41	-81.17	-79.30	-79.06	-62.0	-17.06
Band 8	191	6905	320	6905	-8.41	-70.76	-70.14	-69.95	-62.0	-7.95
				6980	-8.41	-75.49	-75.34	-73.89	-62.0	-11.89

Table 7-53. Contention Based Protocol - Detection Results - All Tx Cases

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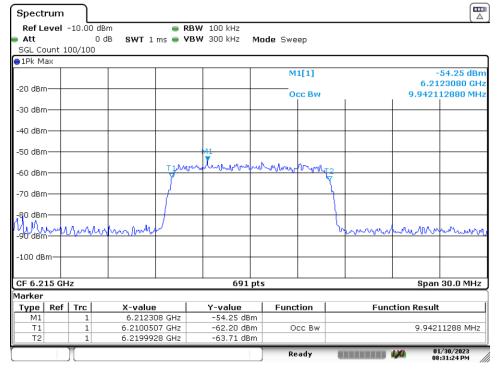
Band	Channel	Channel Freq [MHz]	Channel BW [MHz]	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Detection Rate (%)	
	53	6215	20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100	
UNII				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100	
Band 5	31	6265	6265 320	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100	
			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100		
	101	6455	20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100	
UNII				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100	
Band 6	Band 6 95 642	6425	6425 320	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100	
				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100	
	149	6695	20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100	
UNII				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100	
Band 7	Band 7 159 674	6745	320	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100	
				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100	
	197	6935	20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100	
UNII				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100	
Band 8	Band 8 191	6905	6905	320	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100	

Table 7-54. Contention Based Protocol – Incumbent Detection Trial Results

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7.6.1 AWGN Plots



Date: 30.JAN.2023 20:31:24

Plot 7-428. AWGN Signal (Demonstration)

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